

| The 22th Observerd Source Table (20240501-20240731) |                    |             |            |          |          |           |                   |               |             |             |             |             |             |             |
|-----------------------------------------------------|--------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ID                                                  | source_name        | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
| 1                                                   | B1257+12           | PT2023_0011 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 391           | /           | /           | 13 00 03.11 | /           | +12 40 55.2 | /           |
| 2                                                   | FRB190520          | PT2023_0029 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 16 02 04.27 | -11 17 17.3 | /           | /           | /           | /           |
| 3                                                   | 587736541491233170 | PT2023_0049 | 2024-05-01 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 2             | /           | /           | 15 50 52.42 | 15 51 36.61 | +05 19 36.8 | +05 19 36.8 |
| 4                                                   | J1713+0747         | PT2023_0096 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 13 49.53 | +07 47 37.5 | /           | /           | /           | /           |
| 5                                                   | J1946+2052         | PT2023_0035 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2258          | /           | /           | 19 46 14.13 | /           | +20 52 24.6 | /           |
| 6                                                   | J1855-0756         | PT2023_0110 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 7                                                   | M71                | PT2023_0018 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2864          | /           | /           | 19 53 46.00 | /           | +18 46 45.1 | /           |
| 8                                                   | J2238-1221         | PT2023_0204 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 114           | 22 38 44.13 | -12 21 31.1 | /           | /           | /           | /           |
| 9                                                   | J2108+4516         | PT2023_0099 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 589           | /           | /           | 21 08 23.34 | /           | +45 16 24.9 | /           |
| 10                                                  | DEC+605109-11      | N2023_1     | 2024-05-01 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2686          | 11 23 00.00 | +60 51 09.1 | /           | /           | /           | /           |
| 11                                                  | DEC+605109-11      | N2023_1     | 2024-05-01 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 531           | 11 23 00.00 | +60 51 09.1 | /           | /           | /           | /           |
| 12                                                  | FRB121102          | PT2023_0073 | 2024-05-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 13                                                  | DEC+112221-c       | N2023_1     | 2024-05-01 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 332           | 05 00 00.00 | +11 22 21.9 | 05 00 00.00 | 07 30 00.00 | +11 22 21.9 | +11 22 21.9 |
| 14                                                  | DEC+074539-6       | N2023_1     | 2024-05-01 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2496          | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 15                                                  | DEC+074539-6       | N2023_1     | 2024-05-01 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 494           | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 16                                                  | NGC4449_OTF1       | PT2023_0022 | 2024-05-01 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 96            | 12 28 11.12 | +44 05 36.8 | 12 23 19.53 | 12 33 02.71 | +43 33 07.4 | +44 36 57.3 |
| 17                                                  | NGC4449_OTF2       | PT2023_0022 | 2024-05-01 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 92            | 12 28 11.12 | +44 05 36.8 | 12 31 12.07 | 12 25 16.57 | +44 57 58.1 | +43 13 15.5 |
| 18                                                  | J1229-0621         | PT2023_0090 | 2024-05-01 | 19波束接收机  | all      | psr(4k)   | Tracking          | 10745         | 12 29 31.00 | -06 21 46.0 | /           | /           | /           | /           |
| 19                                                  | J1518+4904         | PT2023_0111 | 2024-05-02 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 960           | /           | /           | 15 18 16.80 | /           | +49 04 34.2 | /           |
| 20                                                  | J1513+3834         | PT2023_0050 | 2024-05-02 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 1129          | 15 13 32.53 | +38 34 05.6 | /           | /           | /           | /           |
| 21                                                  | J1845+0201         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 18 45 03.00 | /           | +02 01 49.0 | /           |
| 22                                                  | J1839+0100         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 39 27.60 | +01 00 33.0 | /           | /           | /           | /           |
| 23                                                  | J1836-0150         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 36 05.80 | -01 50 46.0 | /           | /           | /           | /           |
| 24                                                  | J1848-0044         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 48 51.60 | -00 44 28.0 | /           | /           | /           | /           |
| 25                                                  | J1858-0128         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 58 11.60 | -01 28 58.0 | /           | /           | /           | /           |
| 26                                                  | J1859-0224         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 59 40.10 | -02 24 35.0 | /           | /           | /           | /           |
| 27                                                  | J1917+0621         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 19 17 56.00 | /           | +06 21 43.0 | /           |
| 28                                                  | J1921+1216         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 21 03.30 | +12 16 39.0 | /           | /           | /           | /           |
| 29                                                  | J1930+1708         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 30 17.80 | +17 08 09.0 | /           | /           | /           | /           |
| 30                                                  | J1939+1848         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 39 01.50 | +18 48 32.0 | /           | /           | /           | /           |
| 31                                                  | J1924+2027         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 24 42.10 | +20 27 28.0 | /           | /           | /           | /           |
| 32                                                  | J1957+2754         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 19 57 13.60 | /           | +27 54 16.0 | /           |
| 33                                                  | DEC+560926-c       | N2023_1     | 2024-05-02 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 23 00 00.00 | +56 09 26.7 | 23 00 00.00 | 01 00 00.00 | +56 09 26.7 | +56 09 26.7 |
| 34                                                  | DEC+600748-10      | N2023_1     | 2024-05-02 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2686          | 11 23 00.00 | +60 07 48.9 | /           | /           | /           | /           |
| 35                                                  | DEC+600748-10      | N2023_1     | 2024-05-02 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 531           | 11 23 00.00 | +60 07 48.9 | /           | /           | /           | /           |
| 36                                                  | J0622+0338         | PT2023_0017 | 2024-05-02 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 06 22 09.30 | /           | +03 38 43.0 | /           |
| 37                                                  | DEC+070219-6       | N2023_1     | 2024-05-02 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1869          | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 38                                                  | DEC+070219-6       | N2023_1     | 2024-05-02 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 370           | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 39                                                  | DEC+600748-a       | N2023_1     | 2024-05-02 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 00 00.00 | +60 07 48.9 | 11 00 00.00 | 13 00 00.00 | +60 07 48.9 | +60 07 48.9 |
| 40                                                  | Coma_strp_2        | PT2023_0033 | 2024-05-02 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 371           | 12 52 10.28 | +27 07 23.7 | 12 31 47.37 | 13 12 33.20 | +26 34 54.3 | +27 38 44.2 |
| 41                                                  | 587726032256630848 | PT2023_0049 | 2024-05-03 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 3             | /           | /           | 13 13 52.39 | 13 14 48.99 | +02 07 57.2 | +02 10 33.6 |
| 42                                                  | DEC+581927-d       | N2023_1     | 2024-05-03 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 133           | 16 25 00.00 | +58 19 27.9 | 16 25 00.00 | 17 25 00.00 | +58 19 27.9 | +58 19 27.9 |
| 43                                                  | J1513+3834         | PT2023_0050 | 2024-05-03 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 1129          | 15 13 32.53 | +38 34 05.6 | /           | /           | /           | /           |
| 44                                                  | J1746-0157         | PT2023_0065 | 2024-05-03 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 76            | /           | /           | 17 46 29.85 | /           | -01 57 17.6 | /           |
| 45                                                  | G32.15+5.76        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 18 29 30.09 | +01 55 57.6 | /           | /           | /           | /           |
| 46                                                  | G32.15+5.76        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 18 29 30.09 | +01 55 57.6 | /           | /           | /           | /           |
| 47                                                  | G40.81+3.47        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 53 23.97 | +08 35 31.6 | /           | /           | /           | /           |
| 48                                                  | G40.81+3.47        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 53 23.97 | +08 35 31.6 | /           | /           | /           | /           |
| 49                                                  | G43.01+3.22        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 58 21.56 | +10 26 08.0 | /           | /           | /           | /           |
| 50                                                  | G43.01+3.22        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 58 21.56 | +10 26 08.0 | /           | /           | /           | /           |
| 51                                                  | G64.78-1.44        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 20 00 14.78 | +27 15 30.3 | /           | /           | /           | /           |
| 52                                                  | G64.78-1.44        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 20 00 14.78 | +27 15 30.3 | /           | /           | /           | /           |
| 53                                                  | G80.43-1.10        | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 20 41 52.20 | +40 20 16.1 | /           | /           | /           | /           |

| ID  | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 54  | G80.43-1.10                      | ZD2023_2    | 2024-05-03 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 41 52.20 | +40 20 16.1 | /           | /           | /           | /           |
| 55  | DEC+571427-c                     | N2023_1     | 2024-05-03 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 23 00 00.00 | +57 14 27.3 | 23 00 00.00 | 01 00 00.00 | +57 14 27.3 | +57 14 27.3 |
| 56  | PSRJ0002+6216                    | PT2023_0156 | 2024-05-03 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 3580          | /           | /           | 00 02 58.23 | /           | +62 16 09.6 | /           |
| 57  | DEC+600748-11                    | N2023_1     | 2024-05-03 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 459           | 11 23 00.00 | +60 07 48.9 | /           | /           | /           | /           |
| 58  | DEC+600748-11                    | N2023_1     | 2024-05-03 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 91            | 11 23 00.00 | +60 07 48.9 | /           | /           | /           | /           |
| 59  | Dec+0430_04_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-05-03 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5786          | 04 00 00.00 | +04 30 38.1 | /           | /           | /           | /           |
| 60  | Dec+0430_04_05                   | ZD2023_1_2  | 2024-05-03 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 04 00 00.00 | +04 30 38.1 | /           | /           | /           | /           |
| 61  | DEC+061859-5                     | N2023_1     | 2024-05-03 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1500          | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 62  | DEC+061859-5                     | N2023_1     | 2024-05-03 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 297           | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 63  | NGC4192_OTF1                     | PT2023_0022 | 2024-05-03 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 45            | 12 13 48.29 | +14 54 02.0 | 12 10 56.41 | 12 16 40.17 | +14 32 22.4 | +15 14 32.6 |
| 64  | NGC4192_OTF2                     | PT2023_0022 | 2024-05-03 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 43            | 12 13 48.29 | +14 54 02.0 | 12 15 17.95 | 12 12 23.39 | +15 35 33.5 | +14 12 30.4 |
| 65  | M53                              | PT2023_0075 | 2024-05-03 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 3236          | 13 12 55.00 | +18 10 05.4 | /           | /           | /           | /           |
| 66  | M53                              | PT2023_0075 | 2024-05-03 | 19波束接收机  | beam1    | spec(F)   | Tracking          | 161           | 13 12 55.00 | +18 10 05.4 | /           | /           | /           | /           |
| 67  | 587729408621609096               | PT2023_0049 | 2024-05-04 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 3             | /           | /           | 17 18 07.86 | 17 18 58.73 | +30 07 44.5 | +30 07 44.5 |
| 68  | DEC+064039-6                     | N2023_1     | 2024-05-04 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 717           | 11 23 00.00 | +06 40 39.3 | /           | /           | /           | /           |
| 69  | DEC+064039-6                     | N2023_1     | 2024-05-04 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 142           | 11 23 00.00 | +06 40 39.3 | /           | /           | /           | /           |
| 70  | C52_J1929+4104                   | ZD2023_6    | 2024-05-04 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 71  | J1840+03                         | PT2023_0079 | 2024-05-04 | 19波束接收机  | all      | psr(4k)   | TrackingWithAngle | 362           | 18 40 14.31 | +03 23 16.4 | /           | /           | /           | /           |
| 72  | J1944+16                         | PT2023_0079 | 2024-05-04 | 19波束接收机  | all      | psr(4k)   | TrackingWithAngle | 362           | 19 44 15.69 | +16 54 39.9 | /           | /           | /           | /           |
| 73  | 19C30_1912-12                    | ZD2023_6    | 2024-05-04 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 12 29.00 | /           | -12 15 26.0 | /           |
| 74  | DEC+382736-d                     | N2023_1     | 2024-05-04 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 19 55 00.00 | +38 27 36.9 | 19 55 00.00 | 21 55 00.00 | +38 27 36.9 | +38 27 36.9 |
| 75  | DEC+380556-e                     | N2023_1     | 2024-05-04 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 133           | 21 10 00.00 | +38 05 56.7 | 21 10 00.00 | 22 10 00.00 | +38 05 56.7 | +38 05 56.7 |
| 76  | DEC+602929-10                    | N2023_1     | 2024-05-04 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2686          | 11 23 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 77  | DEC+602929-10                    | N2023_1     | 2024-05-04 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 531           | 11 23 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 78  | DEC+114402-a                     | N2023_1     | 2024-05-04 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 332           | 05 00 00.00 | +11 44 02.1 | 05 00 00.00 | 07 30 00.00 | +11 44 02.1 | +11 44 02.1 |
| 79  | DEC+061859-6                     | N2023_1     | 2024-05-04 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1836          | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 80  | DEC+061859-6                     | N2023_1     | 2024-05-04 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 363           | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 81  | NGC4278                          | N2023_1     | 2024-05-04 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 163           | 12 20 06.82 | +29 16 50.7 | 12 24 42.72 | 12 15 30.72 | +28 07 50.9 | +30 25 50.9 |
| 82  | Coma_strp_4N                     | PT2023_0033 | 2024-05-04 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 236           | 12 59 48.70 | +30 00 40.5 | 13 12 33.20 | 12 47 04.20 | +29 28 11.1 | +30 32 01.0 |
| 83  | 587739303684931731               | PT2023_0049 | 2024-05-05 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 5             | /           | /           | 13 12 25.87 | 13 13 20.86 | +34 07 16.8 | +34 11 53.4 |
| 84  | 587739130805420150               | PT2023_0049 | 2024-05-05 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 5             | /           | /           | 13 45 47.15 | 13 46 40.53 | +34 29 35.7 | +34 29 35.7 |
| 85  | 587722984440463382               | PT2023_0049 | 2024-05-05 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 4             | /           | /           | 14 26 12.98 | 14 26 56.99 | +00 51 38.1 | +00 51 38.1 |
| 86  | 19C69_J1639-1126                 | ZD2023_6    | 2024-05-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 16 39 58.00 | /           | -11 26 41.0 | /           |
| 87  | J1849+1001                       | PT2023_0046 | 2024-05-05 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 95            | /           | /           | 18 49 00.73 | /           | +10 01 01.1 | /           |
| 88  | C52_J1929+4104                   | ZD2023_6    | 2024-05-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 89  | FermiBubbllel                    | PT2023_0056 | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 17 36 24.00 | -10 22 00.0 | /           | /           | /           | /           |
| 90  | FRB20240114A                     | ZD2023_5    | 2024-05-05 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 91  | DEC+611249-11                    | N2023_1     | 2024-05-05 | 19波束接收机  | -        | psr(1k)   | DecDriftWithAngle | 1086          | 11 23 00.00 | +61 12 49.5 | /           | /           | /           | /           |
| 92  | DEC+611249-11                    | N2023_1     | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 215           | 11 23 00.00 | +61 12 49.5 | /           | /           | /           | /           |
| 93  | J06074+1923_1                    | PT2023_0016 | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 06 07 40.70 | +19 23 02.6 | /           | /           | /           | /           |
| 94  | J06074+1923_2                    | PT2023_0016 | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 06 07 40.70 | +19 23 02.6 | /           | /           | /           | /           |
| 95  | DEC+085040-d                     | N2023_1     | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 06 55 00.00 | +08 50 40.5 | 06 55 00.00 | 08 55 00.00 | +08 50 40.5 | +08 50 40.5 |
| 96  | DEC+080720-e                     | N2023_1     | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 09 30 00.00 | +08 07 20.1 | 09 30 00.00 | 11 30 00.00 | +08 07 20.1 | +08 07 20.1 |
| 97  | NGC4449_OTF1                     | PT2023_0022 | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 96            | 12 28 11.12 | +44 05 36.8 | 12 23 19.53 | 12 33 02.71 | +43 33 07.4 | +44 36 57.3 |
| 98  | NGC4449_OTF2                     | PT2023_0022 | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 92            | 12 28 11.12 | +44 05 36.8 | 12 31 12.07 | 12 25 16.57 | +44 57 58.1 | +43 13 15.5 |
| 99  | NGC4625_OTF1                     | PT2023_0113 | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 112           | 12 41 42.79 | +41 12 44.6 | 12 38 01.99 | 12 45 23.59 | +40 51 05.0 | +41 33 15.3 |
| 100 | NGC4625_OTF2                     | PT2023_0113 | 2024-05-05 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 106           | 12 41 42.79 | +41 12 44.6 | 12 39 47.62 | 12 43 31.85 | +40 31 13.1 | +41 54 16.2 |
| 101 | DEC+502243-b                     | N2023_1     | 2024-05-06 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 133           | 16 30 00.00 | +50 22 43.5 | 16 30 00.00 | 17 30 00.00 | +50 22 43.5 | +50 22 43.5 |
| 102 | DEC+070219-7                     | N2023_1     | 2024-05-06 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 974           | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 103 | DEC+070219-7                     | N2023_1     | 2024-05-06 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 193           | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 104 | C52_J1929+4104                   | ZD2023_6    | 2024-05-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 105 | G36.02+3.81                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 43 27.61 | +04 28 47.2 | /           | /           | /           | /           |
| 106 | G36.02+3.81                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 43 27.61 | +04 28 47.2 | /           | /           | /           | /           |
| 107 | G28.48+2.97                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 32 45.08 | -02 35 56.7 | /           | /           | /           | /           |

| ID  | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 108 | G28.48+2.97                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 32 45.08 | -02 35 56.7 | /           | /           | /           | /           |
| 109 | G29.32+0.51                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 43 01.36 | -02 59 10.4 | /           | /           | /           | /           |
| 110 | G29.32+0.51                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 43 01.36 | -02 59 10.4 | /           | /           | /           | /           |
| 111 | G56.27+2.12                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 27 59.61 | +21 39 49.8 | /           | /           | /           | /           |
| 112 | G56.27+2.12                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 27 59.61 | +21 39 49.8 | /           | /           | /           | /           |
| 113 | G89.53+0.42                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 08 14.01 | +48 16 31.3 | /           | /           | /           | /           |
| 114 | G89.53+0.42                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 08 14.01 | +48 16 31.3 | /           | /           | /           | /           |
| 115 | G89.38-0.85                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 13 09.94 | +47 18 01.7 | /           | /           | /           | /           |
| 116 | G89.38-0.85                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 13 09.94 | +47 18 01.7 | /           | /           | /           | /           |
| 117 | G88.85-2.29                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 21 17 02.58 | +45 54 52.7 | /           | /           | /           | /           |
| 118 | G88.85-2.29                      | ZD2023_2    | 2024-05-06 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 17 02.58 | +45 54 52.7 | /           | /           | /           | /           |
| 119 | Dec+0452_04_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-05-06 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5786          | 04 00 00.00 | +04 52 18.3 | /           | /           | /           | /           |
| 120 | Dec+0452_04_05                   | ZD2023_1_2  | 2024-05-06 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 04 00 00.00 | +04 52 18.3 | /           | /           | /           | /           |
| 121 | DEC+091220-d                     | N2023_1     | 2024-05-06 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 10 30 00.00 | +09 12 20.7 | 10 30 00.00 | 12 30 00.00 | +09 12 20.7 | +09 12 20.7 |
| 122 | J1229-0621_1                     | PT2023_0090 | 2024-05-06 | 19波束接收机  | all      | psr(4k)   | OnOff             | 10835         | /           | /           | 12 29 31.00 | 12 29 19.00 | -06 21 46.0 | -06 21 46.0 |
| 123 | J1229-0621_2                     | PT2023_0090 | 2024-05-06 | 19波束接收机  | all      | psr(4k)   | OnOff             | 10835         | /           | /           | 12 29 37.00 | 12 29 25.00 | -06 24 22.0 | -06 24 22.0 |
| 124 | NGC4625_OTF1                     | PT2023_0113 | 2024-05-06 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 112           | 12 41 42.79 | +41 12 44.6 | 12 38 01.99 | 12 45 23.59 | +40 51 05.0 | +41 33 15.3 |
| 125 | NGC4625_OTF2                     | PT2023_0113 | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 106           | 12 41 42.79 | +41 12 44.6 | 12 39 47.62 | 12 43 31.85 | +40 31 13.1 | +41 54 16.2 |
| 126 | DEC+074539-7                     | N2023_1     | 2024-05-07 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 538           | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 127 | DEC+074539-7                     | N2023_1     | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 107           | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 128 | C52_J1929+4104                   | ZD2023_6    | 2024-05-07 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 129 | DEC+600748-12                    | N2023_1     | 2024-05-07 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 403           | 11 23 00.00 | +60 07 48.9 | /           | /           | /           | /           |
| 130 | DEC+600748-12                    | N2023_1     | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 81            | 11 23 00.00 | +60 07 48.9 | /           | /           | /           | /           |
| 131 | J06071+1033_1                    | PT2023_0016 | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 06 07 16.09 | +19 33 05.4 | /           | /           | /           | /           |
| 132 | J06071+1033_2                    | PT2023_0016 | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 06 07 16.09 | +19 33 05.4 | /           | /           | /           | /           |
| 133 | DEC+112221-e                     | N2023_1     | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 309           | 07 30 00.00 | +11 22 21.9 | 07 30 00.00 | 10 00 00.00 | +11 22 21.9 | +11 22 21.9 |
| 134 | NGC4278                          | N2023_1     | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 163           | 12 20 06.82 | +29 16 50.7 | 12 24 42.72 | 12 15 30.72 | +28 07 50.9 | +30 25 50.9 |
| 135 | NGC4496_OTF1                     | PT2023_0022 | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 44            | 12 31 39.22 | +03 56 21.6 | 12 28 52.73 | 12 34 25.72 | +03 34 42.0 | +04 16 52.3 |
| 136 | NGC4496_OTF2                     | PT2023_0022 | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 41            | 12 31 39.22 | +03 56 21.6 | 12 33 06.07 | 12 30 16.98 | +04 37 53.2 | +03 14 50.1 |
| 137 | 3C286                            | PT2023_0016 | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | OnTheFlyMapping   | 284           | 13 31 08.31 | +30 30 32.3 | 13 29 58.55 | 13 32 17.83 | +30 40 32.3 | +30 20 32.3 |
| 138 | DEC+581927-c                     | N2023_1     | 2024-05-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 14 30 00.00 | +58 19 27.9 | 14 30 00.00 | 16 30 00.00 | +58 19 27.9 | +58 19 27.9 |
| 139 | 587735664773431424               | PT2023_0049 | 2024-05-08 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 5             | /           | /           | 15 04 37.07 | 15 05 43.79 | +48 44 19.6 | +48 44 19.6 |
| 140 | C52_J1929+4104                   | ZD2023_6    | 2024-05-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 141 | FermiBubbl1                      | PT2023_0056 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 17 36 24.00 | -10 22 00.0 | /           | /           | /           | /           |
| 142 | J1855-0756                       | PT2023_0189 | 2024-05-08 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 143 | DEC+384917-e                     | N2023_1     | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 277           | 20 00 00.00 | +38 49 17.1 | 20 00 00.00 | 22 05 00.00 | +38 49 17.1 | +38 49 17.1 |
| 144 | DEC+072359-8                     | N2023_1     | 2024-05-08 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1813          | 11 23 00.00 | +07 23 59.7 | /           | /           | /           | /           |
| 145 | DEC+072359-8                     | N2023_1     | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 359           | 11 23 00.00 | +07 23 59.7 | /           | /           | /           | /           |
| 146 | PPS_1                            | N2023_1     | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +39 54 17.7 | 02 00 00.00 | 04 00 00.00 | +39 54 17.7 | +39 54 17.7 |
| 147 | FRB121102                        | PT2023_0073 | 2024-05-08 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 148 | 3C138_1                          | PT2023_0016 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 149 | 3C138_2                          | PT2023_0016 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 150 | 3C138_3                          | PT2023_0016 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 151 | 3C138_4                          | PT2023_0016 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 152 | 3C138_5                          | PT2023_0016 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 153 | DEC+080720-d                     | N2023_1     | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 07 00 00.00 | +08 07 20.1 | 07 00 00.00 | 09 00 00.00 | +08 07 20.1 | +08 07 20.1 |
| 154 | DEC+074539-8                     | N2023_1     | 2024-05-08 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1008          | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 155 | DEC+074539-8                     | N2023_1     | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 200           | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 156 | Coma_strp_3                      | PT2023_0033 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 236           | 12 59 48.70 | +28 34 02.1 | 12 47 04.20 | 13 12 33.20 | +28 01 32.7 | +29 05 22.6 |
| 157 | NGC5248_OTF1                     | PT2023_0022 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 44            | 13 37 32.01 | +08 53 06.5 | 13 34 43.89 | 13 40 20.13 | +08 31 26.9 | +09 13 37.2 |
| 158 | NGC5248_OTF2                     | PT2023_0022 | 2024-05-08 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 42            | 13 37 32.01 | +08 53 06.5 | 13 38 59.71 | 13 36 08.97 | +09 34 38.0 | +08 11 35.0 |
| 159 | C61_J1408+4944                   | ZD2023_6    | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 14 08 36.56 | /           | +49 44 50.2 | /           |
| 160 | DEC+072359-9                     | N2023_1     | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1522          | 11 23 00.00 | +07 23 59.7 | /           | /           | /           | /           |
| 161 | DEC+072359-9                     | N2023_1     | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 301           | 11 23 00.00 | +07 23 59.7 | /           | /           | /           | /           |

| ID  | source_name        | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|--------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 162 | FermiBubble1       | PT2023_0056 | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 17 36 24.00 | -10 22 00.0 | /           | /           | /           | /           |
| 163 | 19C27_J1759-12     | ZD2023_6    | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 17 59 56.30 | /           | -12 47 52.1 | /           |
| 164 | 19C46_J1813-0852   | ZD2023_6    | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 13 35.06 | /           | -08 52 18.8 | /           |
| 165 | J1855-0756         | PT2023_0189 | 2024-05-09 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 166 | J1918+1547         | PT2023_0168 | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 19 18 34.00 | /           | +15 47 14.0 | /           |
| 167 | J1954+2529         | PT2023_0138 | 2024-05-09 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 1129          | /           | /           | 19 54 19.71 | /           | +25 29 27.3 | /           |
| 168 | C25_J2129+4119     | ZD2023_6    | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 21 29 21.46 | /           | +41 19 55.0 | /           |
| 169 | DEC+133223-d       | N2023_1     | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 133           | 23 30 00.00 | +13 32 23.1 | 23 30 00.00 | 00 30 00.00 | +13 32 23.1 | +13 32 23.1 |
| 170 | 3C454.3            | PT2023_0016 | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | OnTheFlyMapping   | 258           | 22 53 54.75 | +16 08 53.6 | 22 52 52.23 | 22 54 57.16 | +16 18 53.6 | +15 58 53.6 |
| 171 | DEC+114402-c       | N2023_1     | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 23 05 00.00 | +11 44 02.1 | 23 05 00.00 | 01 05 00.00 | +11 44 02.1 | +11 44 02.1 |
| 172 | 19C147_J0104       | ZD2023_6    | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 04 42.90 | /           | +60 29 21.1 | /           |
| 173 | FRB20220529A       | PT2023_0148 | 2024-05-09 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 01 16 25.01 | +20 37 57.0 | /           | /           | /           | /           |
| 174 | DEC+602929-12      | N2023_1     | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 997           | 11 23 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 175 | DEC+602929-12      | N2023_1     | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 197           | 11 23 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 176 | DEC-120611-9       | N2023_1     | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1679          | 11 23 00.00 | -12 06 11.1 | /           | /           | /           | /           |
| 177 | DEC-120611-9       | N2023_1     | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 332           | 11 23 00.00 | -12 06 11.1 | /           | /           | /           | /           |
| 178 | J0854+2006         | PT2023_0016 | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | OnTheFlyMapping   | 263           | 08 54 48.87 | +20 06 30.6 | 08 53 44.91 | 08 55 52.70 | +20 16 30.6 | +19 56 30.6 |
| 179 | DEC+070219-8       | N2023_1     | 2024-05-09 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1534          | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 180 | DEC+070219-8       | N2023_1     | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 304           | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 181 | NGC4395_OTF1       | PT2023_0022 | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 51            | 12 25 48.86 | +33 32 48.7 | 12 22 29.56 | 12 29 08.16 | +33 11 09.1 | +33 53 19.4 |
| 182 | NGC4395_OTF2       | PT2023_0022 | 2024-05-09 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 49            | 12 25 48.86 | +33 32 48.7 | 12 27 32.82 | 12 24 10.42 | +34 14 20.2 | +32 51 17.2 |
| 183 | 587742576459251895 | PT2023_0049 | 2024-05-10 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 6             | /           | /           | 15 01 21.64 | 15 02 00.60 | +15 14 59.6 | +15 19 41.0 |
| 184 | DEC+613429-b       | N2023_1     | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 133           | 16 30 00.00 | +61 34 29.7 | 16 30 00.00 | 17 30 00.00 | +61 34 29.7 | +61 34 29.7 |
| 185 | FermiBubble1       | PT2023_0056 | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 17 36 24.00 | -10 22 00.0 | /           | /           | /           | /           |
| 186 | J1855-0756         | PT2023_0189 | 2024-05-10 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 187 | J2150+3427         | PT2023_0147 | 2024-05-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 895           | /           | /           | 21 50 33.00 | /           | +34 27 37.2 | /           |
| 188 | DEC+064039-8       | N2023_1     | 2024-05-10 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1064          | 11 23 00.00 | +06 40 39.3 | /           | /           | /           | /           |
| 189 | DEC+064039-8       | N2023_1     | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 211           | 11 23 00.00 | +06 40 39.3 | /           | /           | /           | /           |
| 190 | 19C154_J0139+61    | ZD2023_6    | 2024-05-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 191 | 19C152_J0231+62    | ZD2023_6    | 2024-05-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 31 52.79 | /           | +62 54 29.9 | /           |
| 192 | PGC018801_1        | N2023_1     | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 369           | 06 18 52.75 | +51 55 22.3 | 06 15 00.00 | 06 24 00.00 | +51 25 30.0 | +52 20 00.0 |
| 193 | DEC+082900-d       | N2023_1     | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 173           | 06 30 00.00 | +08 29 00.3 | 06 30 00.00 | 08 30 00.00 | +08 29 00.3 | +08 29 00.3 |
| 194 | DEC+592428-10      | N2023_1     | 2024-05-10 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1299          | 11 23 00.00 | +59 24 28.5 | /           | /           | /           | /           |
| 195 | DEC+592428-10      | N2023_1     | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 257           | 11 23 00.00 | +59 24 28.5 | /           | /           | /           | /           |
| 196 | NGC4395_OTF1       | PT2023_0022 | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 51            | 12 25 48.86 | +33 32 48.7 | 12 22 29.56 | 12 29 08.16 | +33 11 09.1 | +33 53 19.4 |
| 197 | NGC4395_OTF2       | PT2023_0022 | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 49            | 12 25 48.86 | +33 32 48.7 | 12 27 32.82 | 12 24 10.42 | +34 14 20.2 | +32 51 17.2 |
| 198 | J1407+3220         | PT2023_0016 | 2024-05-10 | 19波束接收机  | all      | spec(W+N) | OnTheFlyMapping   | 2683          | 14 07 00.39 | +28 27 14.7 | 14 05 38.50 | 14 08 22.28 | +28 47 14.7 | +28 07 14.7 |
| 199 | DEC+061859-8       | N2023_1     | 2024-05-11 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 818           | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 200 | DEC+061859-8       | N2023_1     | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 162           | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 201 | J1849+1043g        | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 18 49 52.40 | /           | +10 43 39.0 | /           |
| 202 | J1849+1043g        | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 18 49 52.40 | /           | +10 43 39.0 | /           |
| 203 | J185037+043148     | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 18 50 37.30 | +04 31 48.0 | /           | /           | /           | /           |
| 204 | J185037+043148     | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 18 50 37.30 | +04 31 48.0 | /           | /           | /           | /           |
| 205 | J190321+050354     | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 03 21.50 | +05 03 54.0 | /           | /           | /           | /           |
| 206 | J190321+050354     | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 03 21.50 | +05 03 54.0 | /           | /           | /           | /           |
| 207 | J1852-0044         | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | psr(2k)   | Tracking          | 5364          | 18 52 27.40 | -00 44 19.0 | /           | /           | /           | /           |
| 208 | J1852-0044         | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | spec(F)   | Tracking          | 532           | 18 52 27.40 | -00 44 19.0 | /           | /           | /           | /           |
| 209 | J1921+1632g        | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | psr(2k)   | Tracking          | 16085         | 19 21 36.90 | +16 32 01.0 | /           | /           | /           | /           |
| 210 | J1921+1632g        | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | spec(F)   | Tracking          | 1593          | 19 21 36.90 | +16 32 01.0 | /           | /           | /           | /           |
| 211 | J201356+305020     | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 20 13 56.40 | /           | +30 50 20.0 | /           |
| 212 | J201356+305020     | ZD2023_2    | 2024-05-11 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 20 13 56.40 | /           | +30 50 20.0 | /           |
| 213 | DEC+120542-a       | N2023_1     | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 23 40 00.00 | +12 05 42.3 | 23 40 00.00 | 01 40 00.00 | +12 05 42.3 | +12 05 42.3 |
| 214 | DEC+602929-11      | N2023_1     | 2024-05-11 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2205          | 11 23 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 215 | DEC+602929-11      | N2023_1     | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 436           | 11 23 00.00 | +60 29 29.1 | /           | /           | /           | /           |

| ID  | source_name        | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|--------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 216 | J06074+1923_1      | PT2023_0016 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 06 07 40.70 | +19 23 02.6 | /           | /           | /           | /           |
| 217 | J06074+1923_2      | PT2023_0016 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 06 07 40.70 | +19 23 02.6 | /           | /           | /           | /           |
| 218 | J060621+192713_1   | PT2023_0016 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | PhaseReferencing  | 19            | /           | /           | 06 06 21.54 | 06 06 01.67 | +19 27 13.9 | +19 33 46.5 |
| 219 | J060621+192713_2   | PT2023_0016 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | PhaseReferencing  | 19            | /           | /           | 06 06 21.54 | 06 06 01.69 | +19 27 13.9 | +19 23 43.7 |
| 220 | J060621+192713_3   | PT2023_0016 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | PhaseReferencing  | 19            | /           | /           | 06 06 21.54 | 06 06 50.89 | +19 27 13.9 | +19 23 43.7 |
| 221 | DEC+074539-9       | N2023_1     | 2024-05-11 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 851           | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 222 | DEC+074539-9       | N2023_1     | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 169           | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 223 | DEC+080720-f       | N2023_1     | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 10 30 00.00 | +08 07 20.1 | 10 30 00.00 | 12 30 00.00 | +08 07 20.1 | +08 07 20.1 |
| 224 | DEC+082900-e       | N2023_1     | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 30 00.00 | +08 29 00.3 | 11 30 00.00 | 13 30 00.00 | +08 29 00.3 | +08 29 00.3 |
| 225 | J1337-1257_1       | PT2023_0056 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 37 39.78 | -12 57 24.7 | /           | /           | /           | /           |
| 226 | J1337-1257_2       | PT2023_0056 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 37 39.78 | -12 57 24.7 | /           | /           | /           | /           |
| 227 | J1337-1257_3       | PT2023_0056 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 37 39.78 | -12 57 24.7 | /           | /           | /           | /           |
| 228 | J1337-1257_4       | PT2023_0056 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 37 39.78 | -12 57 24.7 | /           | /           | /           | /           |
| 229 | J1337-1257_5       | PT2023_0056 | 2024-05-11 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 37 39.78 | -12 57 24.7 | /           | /           | /           | /           |
| 230 | 1540+147           | PT2023_0159 | 2024-05-11 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 38            | 15 40 49.49 | +14 47 45.9 | /           | /           | /           | /           |
| 231 | PSR_J1537+1155     | PT2023_0159 | 2024-05-12 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2338          | /           | /           | 15 37 09.96 | /           | +11 55 55.4 | /           |
| 232 | FermiBubble1       | PT2023_0056 | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 17 36 24.00 | -10 22 00.0 | /           | /           | /           | /           |
| 233 | J1823+0550         | PT2023_0050 | 2024-05-12 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1505          | 18 23 30.97 | +05 50 24.3 | /           | /           | /           | /           |
| 234 | J1855-0756         | PT2023_0189 | 2024-05-12 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 235 | FRB20240114A       | ZD2023_5    | 2024-05-12 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 236 | DEC+074539-10      | N2023_1     | 2024-05-12 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1869          | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 237 | DEC+074539-10      | N2023_1     | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 370           | 11 23 00.00 | +07 45 39.9 | /           | /           | /           | /           |
| 238 | DEC+045218-a       | N2023_1     | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 23 50 00.00 | +04 52 18.3 | 23 50 00.00 | 01 50 00.00 | +04 52 18.3 | +04 52 18.3 |
| 239 | PPS_4              | N2023_1     | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +40 15 57.9 | 02 00 00.00 | 04 00 00.00 | +40 59 18.3 | +40 59 18.3 |
| 240 | DEC+600748-13      | N2023_1     | 2024-05-12 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 3514          | 11 23 00.00 | +60 07 48.9 | /           | /           | /           | /           |
| 241 | DEC+600748-13      | N2023_1     | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 695           | 11 23 00.00 | +60 07 48.9 | /           | /           | /           | /           |
| 242 | DEC+061859-9       | N2023_1     | 2024-05-12 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1586          | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 243 | DEC+061859-9       | N2023_1     | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 314           | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 244 | NGC4395_OTF1       | PT2023_0022 | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 51            | 12 25 48.86 | +33 32 48.7 | 12 22 29.56 | 12 29 08.16 | +33 11 09.1 | +33 53 19.4 |
| 245 | NGC4395_OTF2       | PT2023_0022 | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 49            | 12 25 48.86 | +33 32 48.7 | 12 27 32.82 | 12 24 10.42 | +34 14 20.2 | +32 51 17.2 |
| 246 | J1407+3220         | PT2023_0016 | 2024-05-12 | 19波束接收机  | all      | spec(W+N) | OnTheFlyMapping   | 1264          | 14 07 00.39 | +28 27 14.7 | 14 05 38.50 | 14 08 22.28 | +28 47 14.7 | +28 07 14.7 |
| 247 | FRB190520          | PT2023_0029 | 2024-05-13 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 16 02 04.27 | -11 17 17.3 | /           | /           | /           | /           |
| 248 | 587742616170266870 | PT2023_0049 | 2024-05-13 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 4             | /           | /           | 15 43 01.00 | 15 43 47.00 | +16 59 14.8 | +16 59 14.8 |
| 249 | 587742644626260055 | PT2023_0049 | 2024-05-13 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 5             | /           | /           | 16 00 22.67 | 16 00 42.39 | +12 45 28.0 | +12 54 48.3 |
| 250 | 587739844856971464 | PT2023_0049 | 2024-05-13 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 4             | /           | /           | 16 06 35.22 | 16 07 14.50 | +14 22 02.0 | +14 26 28.9 |
| 251 | PSR_J1915+1606     | PT2023_0159 | 2024-05-13 | 19波束接收机  | beam1    | psr(8k)   | SwiftCalibration  | 2338          | /           | /           | 19 15 28.00 | /           | +16 06 27.4 | /           |
| 252 | 1922+155           | PT2023_0159 | 2024-05-13 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 38            | 19 22 34.69 | +15 30 10.0 | /           | /           | /           | /           |
| 253 | DEC+064039-9       | N2023_1     | 2024-05-13 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2641          | 11 23 00.00 | +06 40 39.3 | /           | /           | /           | /           |
| 254 | DEC+064039-9       | N2023_1     | 2024-05-13 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 523           | 11 23 00.00 | +06 40 39.3 | /           | /           | /           | /           |
| 255 | PPS_3              | N2023_1     | 2024-05-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +40 37 38.1 | 02 00 00.00 | 04 00 00.00 | +40 37 38.1 | +40 37 38.1 |
| 256 | J06071+1033_1      | PT2023_0016 | 2024-05-13 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 06 07 16.09 | +19 33 05.4 | /           | /           | /           | /           |
| 257 | J06071+1033_2      | PT2023_0016 | 2024-05-13 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 06 07 16.09 | +19 33 05.4 | /           | /           | /           | /           |
| 258 | J0520+3722g        | ZD2023_2    | 2024-05-13 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 259 | J0520+3722g        | ZD2023_2    | 2024-05-13 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 260 | J0528+3529g        | ZD2023_2    | 2024-05-13 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 28 28.90 | +35 29 28.0 | /           | /           | /           | /           |
| 261 | J0528+3529g        | ZD2023_2    | 2024-05-13 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 28 28.90 | +35 29 28.0 | /           | /           | /           | /           |
| 262 | J0653+0443g        | ZD2023_2    | 2024-05-13 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 53 03.80 | +04 43 13.0 | /           | /           | /           | /           |
| 263 | J0653+0443g        | ZD2023_2    | 2024-05-13 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 53 03.80 | +04 43 13.0 | /           | /           | /           | /           |
| 264 | J081400+215828     | ZD2023_2    | 2024-05-13 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 08 14 00.30 | /           | +21 58 28.0 | /           |
| 265 | J081400+215828     | ZD2023_2    | 2024-05-13 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 08 14 00.30 | /           | +21 58 28.0 | /           |
| 266 | DEC+072359-10      | N2023_1     | 2024-05-13 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1243          | 11 23 00.00 | +07 23 59.7 | /           | /           | /           | /           |
| 267 | DEC+072359-10      | N2023_1     | 2024-05-13 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 246           | 11 23 00.00 | +07 23 59.7 | /           | /           | /           | /           |
| 268 | DEC+093400-b       | N2023_1     | 2024-05-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 00 00.00 | +09 34 00.9 | 11 00 00.00 | 13 00 00.00 | +09 34 00.9 | +09 34 00.9 |
| 269 | Coma_strp_4        | PT2023_0033 | 2024-05-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 236           | 12 59 48.70 | +30 00 40.5 | 12 47 04.20 | 13 12 33.20 | +29 28 11.1 | +30 32 01.0 |

| ID  | source_name        | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|--------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 270 | DEC+061859-10      | N2023_1     | 2024-05-13 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 795           | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 271 | DEC+061859-10      | N2023_1     | 2024-05-13 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 158           | 11 23 00.00 | +06 18 59.1 | /           | /           | /           | /           |
| 272 | 587739166775574594 | PT2023_0049 | 2024-05-14 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 3             | /           | /           | 16 21 00.81 | 16 21 19.25 | +21 10 06.1 | +21 00 31.3 |
| 273 | 58774258933340203  | PT2023_0049 | 2024-05-14 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 4             | /           | /           | 16 22 02.18 | 16 23 04.54 | +09 53 19.1 | +09 54 43.2 |
| 274 | 587729652890206755 | PT2023_0049 | 2024-05-14 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 5             | /           | /           | 17 05 43.99 | 17 06 14.62 | +31 24 49.6 | +31 16 36.6 |
| 275 | J1859+0658         | PT2023_0168 | 2024-05-14 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 18 59 04.70 | /           | +06 58 07.0 | /           |
| 276 | J1904+0535         | PT2023_0168 | 2024-05-14 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 19 04 51.80 | /           | +05 35 45.0 | /           |
| 277 | J1909+0651         | PT2023_0168 | 2024-05-14 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 19 09 01.60 | /           | +06 51 58.0 | /           |
| 278 | J1914+0905         | PT2023_0168 | 2024-05-14 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 19 14 54.50 | /           | +09 05 50.0 | /           |
| 279 | DEC+110041-a       | N2023_1     | 2024-05-14 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 200           | 23 45 00.00 | +11 00 41.7 | 23 45 00.00 | 01 15 00.00 | +11 00 41.7 | +11 00 41.7 |
| 280 | PPS_5              | N2023_1     | 2024-05-14 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +41 42 38.7 | 02 00 00.00 | 04 00 00.00 | +41 20 58.5 | +41 20 58.5 |
| 281 | FRB180301          | PT2023_0180 | 2024-05-14 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 06 12 54.44 | +04 40 15.8 | /           | /           | /           | /           |
| 282 | DEC+064039-10      | N2023_1     | 2024-05-14 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1679          | 11 23 00.00 | +06 40 39.3 | /           | /           | /           | /           |
| 283 | DEC+064039-10      | N2023_1     | 2024-05-14 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 332           | 11 23 00.00 | +06 40 39.3 | /           | /           | /           | /           |
| 284 | DEC+091220-f       | N2023_1     | 2024-05-14 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 25 00.00 | +09 12 20.7 | 12 25 00.00 | 14 25 00.00 | +09 12 20.7 | +09 12 20.7 |
| 285 | Coma_strp_1N       | PT2023_0033 | 2024-05-14 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 176           | 12 59 48.70 | +25 51 35.1 | 13 12 33.20 | 12 47 04.20 | +25 29 55.5 | +26 12 05.8 |
| 286 | J1713+0747         | PT2023_0096 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 13 49.53 | +07 47 37.5 | /           | /           | /           | /           |
| 287 | J13+17             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 13 47 36.41 | 13 48 25.91 | +17 34 04.7 | +17 34 04.7 |
| 288 | J13+17             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 13 47 36.41 | 13 48 25.91 | +17 34 04.7 | +17 34 04.7 |
| 289 | J17+45             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 17 03 30.37 | 17 04 37.93 | +45 40 47.5 | +45 40 47.5 |
| 290 | J17+45             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 17 03 30.37 | 17 04 37.93 | +45 40 47.5 | +45 40 47.5 |
| 291 | B1913+16           | PT2023_0035 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 565           | /           | /           | 19 15 28.00 | /           | +16 06 27.4 | /           |
| 292 | source_75          | PT2023_0032 | 2024-05-15 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 17 42 36.11 | -01 30 53.4 | /           | /           | /           | /           |
| 293 | source_74          | PT2023_0032 | 2024-05-15 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 17 44 05.81 | -00 49 31.1 | /           | /           | /           | /           |
| 294 | J1855-0756_1       | PT2023_0189 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 295 | 19C112_J1813-0452  | PT2023_0181 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 114           | /           | /           | 18 13 23.00 | /           | -04 52 02.0 | /           |
| 296 | 19C118_J1937+14    | PT2023_0181 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 95            | /           | /           | 19 37 41.01 | /           | +14 17 14.7 | /           |
| 297 | J1855-0756_2       | PT2023_0110 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 298 | ctb87_33           | PT2023_0008 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 20 16 09.20 | +37 11 10.5 | /           | /           | /           | /           |
| 299 | M2                 | PT2023_0125 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2166          | /           | /           | 21 33 27.02 | /           | -00 49 23.7 | /           |
| 300 | J2238-1221         | PT2023_0204 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 114           | 22 38 44.13 | -12 21 31.1 | /           | /           | /           | /           |
| 301 | DEC+124902-d       | N2023_1     | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 23 45 00.00 | +12 49 02.7 | 23 45 00.00 | 01 45 00.00 | +12 49 02.7 | +12 49 02.7 |
| 302 | PPS_2              | N2023_1     | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +40 15 57.9 | 02 00 00.00 | 04 00 00.00 | +40 15 57.9 | +40 15 57.9 |
| 303 | FRB121102          | PT2023_0073 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 304 | J02+05             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 02 47 47.35 | 02 48 34.77 | +05 35 16.9 | +05 35 16.9 |
| 305 | J02+05             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 02 47 47.35 | 02 48 34.77 | +05 35 16.9 | +05 35 16.9 |
| 306 | J0158+1230         | PT2023_0028 | 2024-05-15 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 01 58 27.30 | +12 30 40.8 | /           | /           | /           | /           |
| 307 | PSR_J0344-0901     | ZD2023_6    | 2024-05-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 03 44 37.47 | /           | -09 01 02.7 | /           |
| 308 | J0447+2447         | ZD2023_6    | 2024-05-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 309 | DEC+592428-11      | N2023_1     | 2024-05-15 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 339           | 11 23 00.00 | +59 24 28.5 | /           | /           | /           | /           |
| 310 | DEC+592428-11      | N2023_1     | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 66            | 11 23 00.00 | +59 24 28.5 | /           | /           | /           | /           |
| 311 | J0827+3130         | PT2023_0028 | 2024-05-15 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 08 27 05.52 | +31 30 08.1 | /           | /           | /           | /           |
| 312 | J0903+4058         | PT2023_0028 | 2024-05-15 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 09 03 37.13 | +40 58 01.4 | /           | /           | /           | /           |
| 313 | 19C119_J0846-1049  | ZD2023_6    | 2024-05-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 314 | J0925+6103         | ZD2023_6    | 2024-05-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 09 25 17.50 | /           | +61 03 04.1 | /           |
| 315 | J0952-06           | ZD2023_6    | 2024-05-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 09 52 08.32 | /           | -06 07 23.5 | /           |
| 316 | VT1137-0337        | PT2023_0078 | 2024-05-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 471           | 11 37 06.19 | -03 37 37.3 | /           | /           | /           | /           |
| 317 | J09+48             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | psr(4k)   | OnOff             | 5810          | /           | /           | 09 03 13.09 | 09 04 24.19 | +48 24 15.5 | +48 24 15.5 |
| 318 | J09+48             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | OnOff             | 720           | /           | /           | 09 03 13.09 | 09 04 24.19 | +48 24 15.5 | +48 24 15.5 |
| 319 | J10+44             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 10 38 37.24 | 10 37 31.04 | +44 31 23.1 | +44 31 23.1 |
| 320 | J10+44             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 10 38 37.24 | 10 37 31.04 | +44 31 23.1 | +44 31 23.1 |
| 321 | J12+43             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 12 07 46.11 | 12 08 50.78 | +43 07 34.9 | +43 07 34.9 |
| 322 | J12+43             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 12 07 46.11 | 12 08 50.78 | +43 07 34.9 | +43 07 34.9 |
| 323 | J12+30             | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 12 20 11.26 | 12 21 05.95 | +30 20 08.3 | +30 20 08.3 |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 324 | J12+30            | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 12 20 11.26 | 12 21 05.95 | +30 20 08.3 | +30 20 08.3 |
| 325 | J12+08            | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 12 26 03.64 | 12 26 51.34 | +08 15 19.0 | +08 15 19.0 |
| 326 | J12+08            | PT2023_0083 | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 12 26 03.64 | 12 26 51.34 | +08 15 19.0 | +08 15 19.0 |
| 327 | DEC+070219-9      | N2023_1     | 2024-05-15 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 997           | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 328 | DEC+070219-9      | N2023_1     | 2024-05-15 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 197           | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 329 | FRB190520         | PT2023_0029 | 2024-05-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 16 02 04.27 | -11 17 17.3 | /           | /           | /           | /           |
| 330 | G49.96+5.42       | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 03 10.83 | +17 36 31.9 | /           | /           | /           | /           |
| 331 | G49.96+5.42       | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 03 10.83 | +17 36 31.9 | /           | /           | /           | /           |
| 332 | J191628+094959    | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 16 28.60 | +09 49 59.0 | /           | /           | /           | /           |
| 333 | J191628+094959    | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 16 28.60 | +09 49 59.0 | /           | /           | /           | /           |
| 334 | G27.55+4.58       | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 18 25 19.17 | -02 40 51.3 | /           | /           | /           | /           |
| 335 | G27.55+4.58       | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 25 19.17 | -02 40 51.3 | /           | /           | /           | /           |
| 336 | J184418-013418    | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 18 44 18.00 | /           | -01 34 18.1 | /           |
| 337 | J184418-013418    | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 18 44 18.00 | /           | -01 34 18.1 | /           |
| 338 | J1855-0756        | PT2023_0189 | 2024-05-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 339 | J1906+0746        | PT2023_0036 | 2024-05-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 19 06 48.86 | +07 46 25.9 | /           | /           | /           | /           |
| 340 | J1946+2052        | PT2023_0036 | 2024-05-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 19 46 14.13 | +20 52 24.6 | /           | /           | /           | /           |
| 341 | SGR J1935+2154    | PT2023_0003 | 2024-05-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 19 34 56.00 | +21 53 47.8 | /           | /           | /           | /           |
| 342 | J2105+6223        | PT2023_0129 | 2024-05-16 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 941           | /           | /           | 21 05 12.93 | /           | +62 23 05.5 | /           |
| 343 | 19C89_J2329+2653  | ZD2023_6    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 23 29 51.00 | /           | +26 53 59.0 | /           |
| 344 | DEC+070219-10     | N2023_1     | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 616           | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 345 | DEC+070219-10     | N2023_1     | 2024-05-16 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 122           | 11 23 00.00 | +07 02 19.5 | /           | /           | /           | /           |
| 346 | C41_J2359+42N1    | ZD2023_6    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | OnOff             | 404           | /           | /           | 23 59 13.10 | 23 59 07.10 | +42 36 19.2 | +42 38 55.2 |
| 347 | C41_J2359+42N2    | ZD2023_6    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | OnOff             | 404           | /           | /           | 23 59 19.10 | 23 59 25.10 | +42 38 55.2 | +42 36 19.2 |
| 348 | PPS_6             | N2023_1     | 2024-05-16 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +41 42 38.7 | 02 00 00.00 | 04 00 00.00 | +41 42 38.7 | +41 42 38.7 |
| 349 | 19C154_0139+61    | ZD2023_6    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 350 | 19C152_J0231+62   | ZD2023_6    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 31 47.57 | /           | +62 54 29.9 | /           |
| 351 | G150.54-1.78      | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 03 59 32.63 | +50 43 34.0 | /           | /           | /           | /           |
| 352 | G150.54-1.78      | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 03 59 32.63 | +50 43 34.0 | /           | /           | /           | /           |
| 353 | G149.46-1.44      | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 03 55 42.10 | +51 40 48.1 | /           | /           | /           | /           |
| 354 | G149.46-1.44      | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 55 42.10 | +51 40 48.1 | /           | /           | /           | /           |
| 355 | G185.90-1.36      | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 53 56.80 | +23 10 25.6 | /           | /           | /           | /           |
| 356 | G185.90-1.36      | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 53 56.80 | +23 10 25.6 | /           | /           | /           | /           |
| 357 | G207.97-0.25      | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 41 27.36 | +04 18 07.3 | /           | /           | /           | /           |
| 358 | G207.97-0.25      | ZD2023_2    | 2024-05-16 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 41 27.36 | +04 18 07.3 | /           | /           | /           | /           |
| 359 | DEC-112250-7      | N2023_1     | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2116          | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 360 | DEC-112250-7      | N2023_1     | 2024-05-16 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 418           | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 361 | source_1          | PT2023_0064 | 2024-05-16 | 19波束接收机  | all      | psr(4k)   | Tracking          | 3580          | 09 52 08.30 | -06 07 23.5 | /           | /           | /           | /           |
| 362 | 19C136_J1048+53   | ZD2023_6    | 2024-05-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 363 | NGC4303_OTF1      | PT2023_0022 | 2024-05-16 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 44            | 12 21 54.93 | +04 28 25.6 | 12 19 08.32 | 12 24 41.54 | +04 06 46.0 | +04 48 56.3 |
| 364 | NGC4303_OTF2      | PT2023_0022 | 2024-05-16 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 41            | 12 21 54.93 | +04 28 25.6 | 12 23 21.83 | 12 20 32.63 | +05 09 57.1 | +03 46 54.1 |
| 365 | DEC+403738-a      | N2023_1     | 2024-05-16 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 133           | 16 30 00.00 | +40 37 38.1 | 16 30 00.00 | 17 30 00.00 | +40 37 38.1 | +40 37 38.1 |
| 366 | DEC+093400-a      | N2023_1     | 2024-05-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 144           | 23 00 00.00 | +09 34 00.9 | 23 00 00.00 | 00 05 00.00 | +09 34 00.9 | +09 34 00.9 |
| 367 | C41_J2358+4237    | ZD2023_6    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 1431          | /           | /           | 23 58 45.00 | /           | +42 37 39.0 | /           |
| 368 | 19C150_J0115+6150 | ZD2023_6    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 01 15 07.50 | /           | +61 50 00.1 | /           |
| 369 | 19C154_0139+61    | ZD2023_6    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 370 | 19C148_J0146+60G1 | ZD2023_6    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | OnOff             | 761           | /           | /           | 01 46 40.70 | 01 46 34.70 | +60 20 55.2 | +60 23 31.2 |
| 371 | 19C148_J0146+60G2 | ZD2023_6    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | OnOff             | 761           | /           | /           | 01 46 46.70 | 01 46 52.70 | +60 23 31.2 | +60 20 55.2 |
| 372 | 19C139_0226+33    | ZD2023_6    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 26 56.29 | /           | +33 56 08.9 | /           |
| 373 | DEC+592428-12     | N2023_1     | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | +59 24 28.5 | /           | /           | /           | /           |
| 374 | DEC+592428-12     | N2023_1     | 2024-05-17 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | +59 24 28.5 | /           | /           | /           | /           |
| 375 | G169.13-1.78      | ZD2023_2    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 09 40.96 | +36 59 06.3 | /           | /           | /           | /           |
| 376 | G169.13-1.78      | ZD2023_2    | 2024-05-17 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 09 40.96 | +36 59 06.3 | /           | /           | /           | /           |
| 377 | G177.34-1.44      | ZD2023_2    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 33 29.92 | +30 25 03.8 | /           | /           | /           | /           |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 378 | G177.34-1.44      | ZD2023_2    | 2024-05-17 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 33 29.92 | +30 25 03.8 | /           | /           | /           | /           |
| 379 | G196.96+1.02      | ZD2023_2    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 25 24.30 | +14 39 07.4 | /           | /           | /           | /           |
| 380 | G196.96+1.02      | ZD2023_2    | 2024-05-17 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 25 24.30 | +14 39 07.4 | /           | /           | /           | /           |
| 381 | 19C120_J0640-0139 | ZD2023_6    | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 06 40 47.00 | /           | -01 39 23.0 | /           |
| 382 | DEC-114430-7      | N2023_1     | 2024-05-17 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1008          | 11 23 00.00 | -11 44 30.9 | /           | /           | /           | /           |
| 383 | DEC-114430-7      | N2023_1     | 2024-05-17 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 200           | 11 23 00.00 | -11 44 30.9 | /           | /           | /           | /           |
| 384 | J1154-0312        | PT2023_0028 | 2024-05-17 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 11 54 15.07 | -03 12 05.1 | /           | /           | /           | /           |
| 385 | J1201-0345        | PT2023_0028 | 2024-05-17 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 12 01 45.96 | -03 45 40.7 | /           | /           | /           | /           |
| 386 | DEC+093400-e      | N2023_1     | 2024-05-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 30 00.00 | +09 34 00.9 | 11 30 00.00 | 13 30 00.00 | +09 34 00.9 | +09 34 00.9 |
| 387 | NGC5248_OTF1      | PT2023_0022 | 2024-05-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 44            | 13 37 32.01 | +08 53 06.5 | 13 34 43.89 | 13 40 20.13 | +08 31 26.9 | +09 13 37.2 |
| 388 | NGC5248_OTF2      | PT2023_0022 | 2024-05-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 42            | 13 37 32.01 | +08 53 06.5 | 13 38 59.71 | 13 36 08.97 | +09 34 38.0 | +08 11 35.0 |
| 389 | DEC+074539-g      | N2023_1     | 2024-05-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 13 30 00.00 | +07 45 39.9 | 13 30 00.00 | 15 30 00.00 | +07 45 39.9 | +07 45 39.9 |
| 390 | M14               | PT2023_0125 | 2024-05-18 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2166          | /           | /           | 17 37 36.10 | /           | -03 14 45.3 | /           |
| 391 | J1855-0756        | PT2023_0189 | 2024-05-18 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 392 | 19C77_J1948-0427  | ZD2023_6    | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 48 02.00 | /           | -04 27 06.0 | /           |
| 393 | 19C116_J1903+1407 | ZD2023_6    | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 03 41.00 | /           | +14 07 31.0 | /           |
| 394 | C52_J1929+4104    | ZD2023_6    | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 395 | DEC+401558-a      | N2023_1     | 2024-05-18 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 21 00 00.00 | +40 15 57.9 | 21 00 00.00 | 23 00 00.00 | +40 15 57.9 | +40 15 57.9 |
| 396 | 19C151_J0001+6252 | ZD2023_6    | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 00 01 10.00 | /           | +62 52 41.0 | /           |
| 397 | 19C150_J0115+6150 | ZD2023_6    | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 15 07.50 | /           | +61 50 00.1 | /           |
| 398 | DEC+594608-10     | N2023_1     | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1511          | 11 23 00.00 | +59 46 08.7 | /           | /           | /           | /           |
| 399 | DEC+594608-10     | N2023_1     | 2024-05-18 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 299           | 11 23 00.00 | +59 46 08.7 | /           | /           | /           | /           |
| 400 | 19C114_J0446+24   | ZD2023_6    | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 401 | J0414+4859g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 04 14 57.70 | /           | +48 59 26.0 | /           |
| 402 | J0414+4859g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 04 14 57.70 | /           | +48 59 26.0 | /           |
| 403 | J0408+4955g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 04 08 07.20 | +49 55 51.0 | /           | /           | /           | /           |
| 404 | J0408+4955g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 04 08 07.20 | +49 55 51.0 | /           | /           | /           | /           |
| 405 | J0417+5058g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 04 17 44.90 | +50 58 10.0 | /           | /           | /           | /           |
| 406 | J0417+5058g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 04 17 44.90 | +50 58 10.0 | /           | /           | /           | /           |
| 407 | J0416+5202g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 04 16 27.28 | +52 01 25.8 | /           | /           | /           | /           |
| 408 | J0416+5202g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 04 16 27.28 | +52 01 25.8 | /           | /           | /           | /           |
| 409 | J0514+4009g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 14 59.30 | +40 10 02.0 | /           | /           | /           | /           |
| 410 | J0514+4009g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 14 59.30 | +40 10 02.0 | /           | /           | /           | /           |
| 411 | J0520+3722g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 20 13.50 | +37 22 23.0 | /           | /           | /           | /           |
| 412 | J0520+3722g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 20 13.50 | +37 22 23.0 | /           | /           | /           | /           |
| 413 | J0528+3529g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 28 28.90 | +35 29 28.0 | /           | /           | /           | /           |
| 414 | J0528+3529g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 28 28.90 | +35 29 28.0 | /           | /           | /           | /           |
| 415 | J0541+2959g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 41 44.40 | +29 59 02.0 | /           | /           | /           | /           |
| 416 | J0541+2959g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 41 44.40 | +29 59 02.0 | /           | /           | /           | /           |
| 417 | J0557+2442g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 57 20.00 | +24 42 20.0 | /           | /           | /           | /           |
| 418 | J0557+2442g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 57 20.00 | +24 42 20.0 | /           | /           | /           | /           |
| 419 | J0605+1937g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 05 54.60 | +19 37 58.0 | /           | /           | /           | /           |
| 420 | J0605+1937g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 05 54.60 | +19 37 58.0 | /           | /           | /           | /           |
| 421 | J0620+1711g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 06 20 30.40 | /           | +17 11 05.0 | /           |
| 422 | J0620+1711g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 06 20 30.40 | /           | +17 11 05.0 | /           |
| 423 | J0625+1403g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 25 06.60 | +14 03 42.0 | /           | /           | /           | /           |
| 424 | J0625+1403g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 25 06.60 | +14 03 42.0 | /           | /           | /           | /           |
| 425 | J0630+1002g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 30 24.80 | +10 02 32.0 | /           | /           | /           | /           |
| 426 | J0630+1002g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 30 24.80 | +10 02 32.0 | /           | /           | /           | /           |
| 427 | J0622+0338g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 22 09.30 | +03 38 43.0 | /           | /           | /           | /           |
| 428 | J0622+0338g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 22 09.30 | +03 38 43.0 | /           | /           | /           | /           |
| 429 | J0623+0220g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 23 24.70 | +02 20 43.0 | /           | /           | /           | /           |
| 430 | J0623+0220g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 23 24.70 | +02 20 43.0 | /           | /           | /           | /           |
| 431 | J0651-0054g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 51 08.30 | -00 55 40.0 | /           | /           | /           | /           |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA           | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 432 | J0651-0054g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 51 08.30  | -00 55 40.0 | /           | /           | /           | /           |
| 433 | J0637+0332g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 37 40.70  | +03 32 29.0 | /           | /           | /           | /           |
| 434 | J0637+0332g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 37 40.70  | +03 32 29.0 | /           | /           | /           | /           |
| 435 | J0641+0359g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 41 12.50  | +03 59 13.0 | /           | /           | /           | /           |
| 436 | J0641+0359g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 41 12.50  | +03 59 13.0 | /           | /           | /           | /           |
| 437 | J0643+0348g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 43 01.80  | +03 50 01.0 | /           | /           | /           | /           |
| 438 | J0643+0348g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 43 01.80  | +03 50 01.0 | /           | /           | /           | /           |
| 439 | J0653+0443g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /            | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 440 | J0653+0443g       | ZD2023_2    | 2024-05-18 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /            | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 441 | J0614+2229        | PT2023_0045 | 2024-05-18 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 753           | +06 14 17.01 | +22 29 56.8 | /           | /           | /           | /           |
| 442 | 19C110_J0745-04   | ZD2023_6    | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /            | /           | 07 46 52.00 | /           | -04 11 09.0 | /           |
| 443 | DEC-131111-7      | N2023_1     | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1836          | 11 23 00.00  | -13 11 11.7 | /           | /           | /           | /           |
| 444 | DEC-131111-7      | N2023_1     | 2024-05-18 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 363           | 11 23 00.00  | -13 11 11.7 | /           | /           | /           | /           |
| 445 | C61_J1408+4944    | ZD2023_6    | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 14 08 36.56 | /           | +49 44 50.2 | /           |
| 446 | Coma_strp_3N      | PT2023_0033 | 2024-05-18 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 236           | 12 59 48.70  | +28 34 02.1 | 13 12 33.20 | 12 47 04.20 | +28 01 32.7 | +29 05 22.6 |
| 447 | DEC-124931-6      | N2023_1     | 2024-05-18 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2015          | 11 23 00.00  | -12 49 31.5 | /           | /           | /           | /           |
| 448 | DEC-124931-6      | N2023_1     | 2024-05-18 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 399           | 11 23 00.00  | -12 49 31.5 | /           | /           | /           | /           |
| 449 | FermiBubblle      | PT2023_0056 | 2024-05-19 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 17 36 24.00  | -10 22 00.0 | /           | /           | /           | /           |
| 450 | J1855-0756        | PT2023_0189 | 2024-05-19 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00  | -07 56 43.0 | /           | /           | /           | /           |
| 451 | FRB20240114A      | PT2023_0073 | 2024-05-19 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 7153          | 21 27 39.84  | +04 19 46.3 | /           | /           | /           | /           |
| 452 | J2056+3142        | PT2023_0028 | 2024-05-19 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 20 56 29.38  | +31 42 26.2 | /           | /           | /           | /           |
| 453 | FRB20220912A      | PT2023_0100 | 2024-05-19 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 2258          | 23 09 04.90  | +48 42 25.4 | /           | /           | /           | /           |
| 454 | DEC-120611-7      | N2023_1     | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1153          | 11 23 00.00  | -12 06 11.1 | /           | /           | /           | /           |
| 455 | DEC-120611-7      | N2023_1     | 2024-05-19 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 228           | 11 23 00.00  | -12 06 11.1 | /           | /           | /           | /           |
| 456 | 19C162_J0119+61G1 | ZD2023_6    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | OnOff             | 404           | /            | /           | 01 19 56.00 | 01 19 50.00 | +61 05 06.0 | +61 07 42.0 |
| 457 | 19C162_J0119+61G2 | ZD2023_6    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | OnOff             | 404           | /            | /           | 01 20 02.00 | 01 20 08.00 | +61 07 42.0 | +61 05 06.0 |
| 458 | 19C163_J0333+25G1 | ZD2023_6    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | OnOff             | 761           | /            | /           | 03 33 02.00 | 03 32 56.00 | +25 37 06.0 | +25 39 42.0 |
| 459 | 19C163_J0333+25G2 | ZD2023_6    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | OnOff             | 761           | /            | /           | 03 33 08.00 | 03 33 14.00 | +25 39 42.0 | +25 37 06.0 |
| 460 | 19C150_J0115+6150 | ZD2023_6    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /            | /           | 01 15 07.50 | /           | +61 50 00.1 | /           |
| 461 | 19C154_O139+61    | ZD2023_6    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 462 | 19C139_O226+33    | ZD2023_6    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 02 26 56.29 | /           | +33 56 08.9 | /           |
| 463 | G149.80-1.69      | ZD2023_2    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 03 56 20.34  | +51 15 55.4 | /           | /           | /           | /           |
| 464 | G149.80-1.69      | ZD2023_2    | 2024-05-19 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 03 56 20.34  | +51 15 55.4 | /           | /           | /           | /           |
| 465 | G149.85-1.27      | ZD2023_2    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 03 58 19.93  | +51 33 26.5 | /           | /           | /           | /           |
| 466 | G149.85-1.27      | ZD2023_2    | 2024-05-19 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 58 19.93  | +51 33 26.5 | /           | /           | /           | /           |
| 467 | G185.46+1.27      | ZD2023_2    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 02 56.93  | +24 52 01.4 | /           | /           | /           | /           |
| 468 | G185.46+1.27      | ZD2023_2    | 2024-05-19 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 02 56.93  | +24 52 01.4 | /           | /           | /           | /           |
| 469 | G207.28+0.25      | ZD2023_2    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 42 00.76  | +05 08 36.8 | /           | /           | /           | /           |
| 470 | G207.28+0.25      | ZD2023_2    | 2024-05-19 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 42 00.76  | +05 08 36.8 | /           | /           | /           | /           |
| 471 | DEC+074539-e      | N2023_1     | 2024-05-19 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 09 40 00.00  | +07 45 39.9 | 09 40 00.00 | 11 40 00.00 | +07 45 39.9 | +07 45 39.9 |
| 472 | DEC-124931-7      | N2023_1     | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1243          | 11 23 00.00  | -12 49 31.5 | /           | /           | /           | /           |
| 473 | DEC-124931-7      | N2023_1     | 2024-05-19 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 246           | 11 23 00.00  | -12 49 31.5 | /           | /           | /           | /           |
| 474 | NGC4496_OTF1      | PT2023_0022 | 2024-05-19 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 44            | 12 31 39.22  | +03 56 21.6 | 12 28 52.73 | 12 34 25.72 | +03 34 42.0 | +04 16 52.3 |
| 475 | NGC4496_OTF2      | PT2023_0022 | 2024-05-19 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 41            | 12 31 39.22  | +03 56 21.6 | 12 33 06.07 | 12 30 16.98 | +04 37 53.2 | +03 14 50.1 |
| 476 | 19C23_J1142+3253  | ZD2023_6    | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 11 42 06.00 | /           | +32 53 02.0 | /           |
| 477 | DEC-122751-7      | N2023_1     | 2024-05-19 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 784           | 11 23 00.00  | -12 27 51.3 | /           | /           | /           | /           |
| 478 | DEC-122751-7      | N2023_1     | 2024-05-19 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 155           | 11 23 00.00  | -12 27 51.3 | /           | /           | /           | /           |
| 479 | J1445+1727        | PT2023_0028 | 2024-05-19 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 14 45 30.22  | +17 27 51.2 | /           | /           | /           | /           |
| 480 | J1531+5349        | PT2023_0028 | 2024-05-20 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 15 31 02.40  | +53 49 00.3 | /           | /           | /           | /           |
| 481 | C61_J1408+4944    | ZD2023_6    | 2024-05-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 14 08 36.56 | /           | +49 44 50.2 | /           |
| 482 | J1745+2339        | PT2023_0028 | 2024-05-20 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 17 45 23.98  | +23 38 59.1 | /           | /           | /           | /           |
| 483 | J1827+1928        | PT2023_0028 | 2024-05-20 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 18 27 36.48  | +19 28 57.5 | /           | /           | /           | /           |
| 484 | J1837+1052        | PT2023_0028 | 2024-05-20 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 18 37 20.57  | +10 51 49.1 | /           | /           | /           | /           |
| 485 | FermiBubblle      | PT2023_0056 | 2024-05-20 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 17 36 24.00  | -10 22 00.0 | /           | /           | /           | /           |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 486 | J1855-0756        | PT2023_0189 | 2024-05-20 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 487 | G38.51-3.56       | ZD2023_2    | 2024-05-20 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 14 18.92 | +03 19 42.9 | /           | /           | /           | /           |
| 488 | G38.51-3.56       | ZD2023_2    | 2024-05-20 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 14 18.92 | +03 19 42.9 | /           | /           | /           | /           |
| 489 | G66.64-1.44       | ZD2023_2    | 2024-05-20 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 20 04 42.75 | +28 50 02.1 | /           | /           | /           | /           |
| 490 | G66.64-1.44       | ZD2023_2    | 2024-05-20 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 20 04 42.75 | +28 50 02.1 | /           | /           | /           | /           |
| 491 | DEC-120611-6      | N2023_1     | 2024-05-20 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 448           | 11 23 00.00 | -12 06 11.1 | /           | /           | /           | /           |
| 492 | DEC-120611-6      | N2023_1     | 2024-05-20 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 89            | 11 23 00.00 | -12 06 11.1 | /           | /           | /           | /           |
| 493 | PPS_10            | N2023_1     | 2024-05-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +43 09 19.5 | 02 00 00.00 | 04 00 00.00 | +43 09 19.5 | +43 09 19.5 |
| 494 | FRB20180301A      | PT2023_0124 | 2024-05-20 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 941           | 06 12 54.44 | +04 40 15.8 | /           | /           | /           | /           |
| 495 | DEC+085040-c      | N2023_1     | 2024-05-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 05 00 00.00 | +08 50 40.5 | 05 00 00.00 | 07 00 00.00 | +08 50 40.5 | +08 50 40.5 |
| 496 | C74_J0806-07      | ZD2023_6    | 2024-05-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 06 18.70 | /           | -07 53 20.5 | /           |
| 497 | 19C166_J0848-11G1 | ZD2023_6    | 2024-05-20 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 08 48 49.65 | 08 48 43.65 | -11 51 56.8 | -11 49 20.8 |
| 498 | 19C166_J0848-11G2 | ZD2023_6    | 2024-05-20 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 08 48 55.65 | 08 49 01.65 | -11 49 20.8 | -11 51 56.8 |
| 499 | 19C136_J1048+53   | ZD2023_6    | 2024-05-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 500 | 19C23_J1142+3253  | ZD2023_6    | 2024-05-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 11 42 06.00 | /           | +32 53 02.0 | /           |
| 501 | DEC-122751-6      | N2023_1     | 2024-05-20 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1254          | 11 23 00.00 | -12 27 51.3 | /           | /           | /           | /           |
| 502 | DEC-122751-6      | N2023_1     | 2024-05-20 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 248           | 11 23 00.00 | -12 27 51.3 | /           | /           | /           | /           |
| 503 | NGC4496_OTF1      | PT2023_0022 | 2024-05-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 44            | 12 31 39.22 | +03 56 21.6 | 12 28 52.73 | 12 34 25.72 | +03 34 42.0 | +04 16 52.3 |
| 504 | NGC4496_OTF2      | PT2023_0022 | 2024-05-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 41            | 12 31 39.22 | +03 56 21.6 | 12 33 06.07 | 12 30 16.98 | +04 37 53.2 | +03 14 50.1 |
| 505 | B1508+55          | PT2023_0006 | 2024-05-20 | 19波束接收机  | beam1    | psr(8k)   | SwiftCalibration  | 5079          | /           | /           | 15 09 25.63 | /           | +55 31 32.4 | /           |
| 506 | G34.65+4.83       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 37 20.63 | +03 43 22.4 | /           | /           | /           | /           |
| 507 | G34.65+4.83       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 37 20.63 | +03 43 22.4 | /           | /           | /           | /           |
| 508 | G27.85+3.90       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 28 16.10 | -02 44 01.9 | /           | /           | /           | /           |
| 509 | G27.85+3.90       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 28 16.10 | -02 44 01.9 | /           | /           | /           | /           |
| 510 | G28.78+2.29       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 35 42.09 | -02 38 59.1 | /           | /           | /           | /           |
| 511 | G28.78+2.29       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 35 42.09 | -02 38 59.1 | /           | /           | /           | /           |
| 512 | G32.74-5.25       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 09 48.02 | -02 33 48.8 | /           | /           | /           | /           |
| 513 | G32.74-5.25       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 09 48.02 | -02 33 48.8 | /           | /           | /           | /           |
| 514 | G58.42-1.78       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 47 09.19 | +21 37 56.0 | /           | /           | /           | /           |
| 515 | G58.42-1.78       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 47 09.19 | +21 37 56.0 | /           | /           | /           | /           |
| 516 | G91.00+0.25       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 15 04.87 | +49 13 42.5 | /           | /           | /           | /           |
| 517 | G91.00+0.25       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 15 04.87 | +49 13 42.5 | /           | /           | /           | /           |
| 518 | G90.12-0.93       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 16 32.28 | +47 46 15.9 | /           | /           | /           | /           |
| 519 | G90.12-0.93       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 16 32.28 | +47 46 15.9 | /           | /           | /           | /           |
| 520 | G89.19-2.54       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 21 19 27.89 | +45 58 51.7 | /           | /           | /           | /           |
| 521 | G89.19-2.54       | ZD2023_2    | 2024-05-21 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 19 27.89 | +45 58 51.7 | /           | /           | /           | /           |
| 522 | EQ_peg            | PT2023_0019 | 2024-05-21 | 19波束接收机  | all      | psr(1k)   | Tracking          | 2681          | 23 31 52.18 | +19 56 14.2 | /           | /           | /           | /           |
| 523 | DEC+114402-b      | N2023_1     | 2024-05-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 01 00 00.00 | +11 44 02.1 | 01 00 00.00 | 03 00 00.00 | +11 44 02.1 | +11 44 02.1 |
| 524 | PPS_11            | N2023_1     | 2024-05-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +43 30 59.7 | 02 00 00.00 | 04 00 00.00 | +43 30 59.7 | +43 30 59.7 |
| 525 | J0622+0338        | PT2023_0017 | 2024-05-21 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 06 22 09.30 | /           | +03 38 43.0 | /           |
| 526 | DEC+120542-b      | N2023_1     | 2024-05-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 04 00 00.00 | +12 05 42.3 | 04 00 00.00 | 06 00 00.00 | +12 05 42.3 | +12 05 42.3 |
| 527 | DEC-124931-8      | N2023_1     | 2024-05-21 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1948          | 11 23 00.00 | -12 49 31.5 | /           | /           | /           | /           |
| 528 | DEC-124931-8      | N2023_1     | 2024-05-21 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 385           | 11 23 00.00 | -12 49 31.5 | /           | /           | /           | /           |
| 529 | GJ_486            | PT2023_0146 | 2024-05-21 | 19波束接收机  | all      | psr(1k)   | Tracking          | 4021          | 12 47 56.62 | +09 45 05.0 | /           | /           | /           | /           |
| 530 | 3C286             | PT2023_0019 | 2024-05-21 | 19波束接收机  | all      | psr(1k)   | Tracking          | 113           | 13 31 08.29 | +30 30 33.0 | /           | /           | /           | /           |
| 531 | 3C286_off         | PT2023_0019 | 2024-05-21 | 19波束接收机  | all      | psr(1k)   | Tracking          | 113           | 13 31 08.29 | +31 15 33.0 | /           | /           | /           | /           |
| 532 | DEC-131111-8      | N2023_1     | 2024-05-21 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1343          | 11 23 00.00 | -13 11 11.7 | /           | /           | /           | /           |
| 533 | DEC-131111-8      | N2023_1     | 2024-05-21 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 266           | 11 23 00.00 | -13 11 11.7 | /           | /           | /           | /           |
| 534 | FermiBubble1      | PT2023_0056 | 2024-05-22 | 19波束接收机  | all      | spec(W+N) | Tracking          | 363           | 17 36 24.00 | -10 22 00.0 | /           | /           | /           | /           |
| 535 | M71               | PT2023_0018 | 2024-05-22 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2864          | /           | /           | 19 53 46.00 | /           | +18 46 45.1 | /           |
| 536 | DEC-131111-9      | N2023_1     | 2024-05-22 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1679          | 11 23 00.00 | -13 11 11.7 | /           | /           | /           | /           |
| 537 | DEC-131111-9      | N2023_1     | 2024-05-22 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 332           | 11 23 00.00 | -13 11 11.7 | /           | /           | /           | /           |
| 538 | DEC+085040-e      | N2023_1     | 2024-05-22 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 133           | 23 55 00.00 | +08 50 40.5 | 23 55 00.00 | 00 55 00.00 | +08 50 40.5 | +08 50 40.5 |
| 539 | DEC+101721-a      | N2023_1     | 2024-05-22 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 01 00 00.00 | +10 17 21.3 | 01 00 00.00 | 03 00 00.00 | +10 17 21.3 | +10 17 21.3 |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 540 | FRB121102         | PT2023_0073 | 2024-05-22 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 541 | J0447+2447        | ZD2023_6    | 2024-05-22 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 542 | DEC-101750-7      | N2023_1     | 2024-05-22 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1187          | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 543 | DEC-101750-7      | N2023_1     | 2024-05-22 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 235           | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 544 | GJ_486            | PT2023_0146 | 2024-05-22 | 19波束接收机  | all      | psr(1k)   | Tracking          | 4021          | 12 47 56.62 | +09 45 05.0 | /           | /           | /           | /           |
| 545 | GJ_581            | PT2023_0146 | 2024-05-22 | 19波束接收机  | all      | psr(1k)   | Tracking          | 2011          | 15 19 26.83 | -07 43 20.2 | /           | /           | /           | /           |
| 546 | C61_J1408+4944    | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 14 08 36.56 | /           | +49 44 50.2 | /           |
| 547 | M13               | PT2023_0040 | 2024-05-23 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 931           | /           | /           | 16 41 41.24 | /           | +36 27 35.5 | /           |
| 548 | J1845+0201        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 18 45 03.00 | /           | +02 01 49.0 | /           |
| 549 | J1839+0100        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 39 27.60 | +01 00 33.0 | /           | /           | /           | /           |
| 550 | J1836-0150        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 36 05.80 | -01 50 46.0 | /           | /           | /           | /           |
| 551 | J1848-0044        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 48 51.60 | -00 44 28.0 | /           | /           | /           | /           |
| 552 | J1858-0128        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 58 11.60 | -01 28 58.0 | /           | /           | /           | /           |
| 553 | J1859-0224        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 59 40.10 | -02 24 35.0 | /           | /           | /           | /           |
| 554 | J1917+0621        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 19 17 56.00 | /           | +06 21 43.0 | /           |
| 555 | J1921+1216        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 21 03.30 | +12 16 39.0 | /           | /           | /           | /           |
| 556 | J1930+1708        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 30 17.80 | +17 08 09.0 | /           | /           | /           | /           |
| 557 | J1939+1848        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 39 01.50 | +18 48 32.0 | /           | /           | /           | /           |
| 558 | J1924+2027        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 24 42.10 | +20 27 28.0 | /           | /           | /           | /           |
| 559 | J1957+2754        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 57 13.60 | +27 54 16.0 | /           | /           | /           | /           |
| 560 | J2015+3404        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 20 15 14.50 | /           | +34 04 22.0 | /           |
| 561 | 19C87_J1917+24    | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 19 17 40.00 | /           | +24 44 11.0 | /           |
| 562 | C52_J1929+4104    | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 563 | 19C149_J2114+2631 | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 21 14 21.95 | /           | +26 31 23.9 | /           |
| 564 | C25_J2129+4119    | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 21 29 21.46 | /           | +41 19 55.0 | /           |
| 565 | J2215+5135        | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 22 15 32.68 | /           | +51 35 36.3 | /           |
| 566 | DEC+101721-b      | N2023_1     | 2024-05-23 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 144           | 00 00 00.00 | +10 17 21.3 | 00 00 00.00 | 01 05 00.00 | +10 17 21.3 | +10 17 21.3 |
| 567 | PSRJ0002+6216     | PT2023_0156 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 10727         | /           | /           | 00 02 58.23 | /           | +62 16 09.6 | /           |
| 568 | 19C147_J0104      | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 04 42.90 | /           | +60 29 21.1 | /           |
| 569 | 19C154_O139+61    | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 570 | 19C138_J0210+32   | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 10 09.00 | /           | +32 11 23.0 | /           |
| 571 | 19C137_J0244+32   | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 44 46.00 | /           | +32 18 28.0 | /           |
| 572 | 19C152_J0231+62   | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 31 47.57 | /           | +62 54 29.9 | /           |
| 573 | DEC+124902-a      | N2023_1     | 2024-05-23 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 02 00 00.00 | +12 49 02.7 | 02 00 00.00 | 04 00 00.00 | +12 49 02.7 | +12 49 02.7 |
| 574 | J0416+5202        | PT2023_0017 | 2024-05-23 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 04 16 32.20 | /           | +52 02 19.0 | /           |
| 575 | DEC+594608-11     | N2023_1     | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2015          | 11 23 00.00 | +59 46 08.7 | /           | /           | /           | /           |
| 576 | DEC+594608-11     | N2023_1     | 2024-05-23 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 399           | 11 23 00.00 | +59 46 08.7 | /           | /           | /           | /           |
| 577 | 19C119_J0846-1049 | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 578 | J0925+6103        | ZD2023_6    | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 09 25 17.50 | /           | +61 03 04.1 | /           |
| 579 | DEC-120611-8      | N2023_1     | 2024-05-23 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1388          | 11 23 00.00 | -12 06 11.1 | /           | /           | /           | /           |
| 580 | DEC-120611-8      | N2023_1     | 2024-05-23 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 275           | 11 23 00.00 | -12 06 11.1 | /           | /           | /           | /           |
| 581 | NGC4527_OTF1      | PT2023_0022 | 2024-05-23 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 91            | 12 34 17.76 | +02 25 16.3 | 12 30 48.15 | 12 37 47.37 | +01 41 57.1 | +03 07 26.6 |
| 582 | NGC4527_OTF2      | PT2023_0022 | 2024-05-23 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 81            | 12 34 17.76 | +02 25 16.3 | 12 36 27.84 | 12 32 12.28 | +03 28 27.5 | +01 22 05.2 |
| 583 | C52_J1929+4104_1  | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 584 | J1759             | PT2023_0132 | 2024-05-24 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 59 45.67 | +50 36 56.9 | /           | /           | /           | /           |
| 585 | 19C27_J1759-12    | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 17 59 56.30 | /           | -12 47 52.1 | /           |
| 586 | 19C46_J1813-0852  | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 13 35.06 | /           | -08 52 18.8 | /           |
| 587 | G58.52+2.29       | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 5764          | 19 32 00.84 | +23 43 09.3 | /           | /           | /           | /           |
| 588 | G58.52+2.29       | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1138          | 19 32 00.84 | +23 43 09.3 | /           | /           | /           | /           |
| 589 | 19C28_J2032-1253  | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 20 32 26.84 | /           | -12 53 44.2 | /           |
| 590 | C52_J1929+4104_2  | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 591 | 19C123_J1930+2835 | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 19 30 42.40 | /           | +28 36 49.1 | /           |
| 592 | 19C89_J2329+2653  | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 23 29 51.00 | /           | +26 53 59.0 | /           |
| 593 | 19C152_J0231+62   | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 31 52.79 | /           | +62 54 29.9 | /           |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 594 | G150.93-1.61      | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 02 06.57 | +50 35 52.9 | /           | /           | /           | /           |
| 595 | G150.93-1.61      | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 02 06.57 | +50 35 52.9 | /           | /           | /           | /           |
| 596 | G152.79-1.61      | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 10 41.81 | +49 21 15.5 | /           | /           | /           | /           |
| 597 | G152.79-1.61      | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 10 41.81 | +49 21 15.5 | /           | /           | /           | /           |
| 598 | G192.17+1.36      | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 17 13.83 | +19 02 27.5 | /           | /           | /           | /           |
| 599 | G192.17+1.36      | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 17 13.83 | +19 02 27.5 | /           | /           | /           | /           |
| 600 | G205.81+0.42      | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 39 55.04 | +06 31 32.9 | /           | /           | /           | /           |
| 601 | G205.81+0.42      | ZD2023_2    | 2024-05-24 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 39 55.04 | +06 31 32.9 | /           | /           | /           | /           |
| 602 | 19C170_J0719-12G1 | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 07 19 04.97 | 07 18 58.97 | -12 09 12.6 | -12 06 36.6 |
| 603 | 19C170_J0719-12G2 | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 07 19 10.97 | 07 19 16.97 | -12 06 36.6 | -12 09 12.6 |
| 604 | 19C119_J0846-1049 | ZD2023_6    | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 605 | DEC-131111-10     | N2023_1     | 2024-05-24 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2140          | 11 23 00.00 | -13 11 11.7 | /           | /           | /           | /           |
| 606 | DEC-131111-10     | N2023_1     | 2024-05-24 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 424           | 11 23 00.00 | -13 11 11.7 | /           | /           | /           | /           |
| 607 | Coma_strp_4N      | PT2023_0033 | 2024-05-24 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 236           | 12 59 48.70 | +30 00 40.5 | 13 12 33.20 | 12 47 04.20 | +29 28 11.1 | +30 32 01.0 |
| 608 | DEC+131042-c      | N2023_1     | 2024-05-24 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 30 00.00 | +13 10 42.9 | 12 30 00.00 | 14 30 00.00 | +13 10 42.9 | +13 10 42.9 |
| 609 | J1904+0836        | PT2023_0168 | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 19 04 35.40 | /           | +08 36 14.0 | /           |
| 610 | J1908+0949        | PT2023_0168 | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 19 08 07.80 | /           | +09 49 53.0 | /           |
| 611 | J1911+0939        | PT2023_0168 | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 19 11 38.30 | /           | +09 39 27.0 | /           |
| 612 | J1917+1121        | PT2023_0168 | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 19 17 26.80 | /           | +11 21 47.0 | /           |
| 613 | FRB20201124A      | PT2023_0208 | 2024-05-25 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 753           | 05 08 03.51 | +26 03 38.5 | /           | /           | /           | /           |
| 614 | 19C125_J0521+56   | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 05 22 33.20 | /           | +56 55 55.9 | /           |
| 615 | 19C164_J0419-12G1 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 04 19 45.88 | 04 19 39.88 | -12 08 55.8 | -12 06 19.8 |
| 616 | 19C164_J0419-12G2 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 04 19 51.88 | 04 19 57.88 | -12 06 19.8 | -12 08 55.8 |
| 617 | 19C165_J0426-11G1 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 04 26 16.97 | 04 26 10.97 | -11 58 24.3 | -11 55 48.3 |
| 618 | 19C165_J0426-11G2 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 04 26 22.97 | 04 26 28.97 | -11 55 48.3 | -11 58 24.3 |
| 619 | 19C169_J0434-12G1 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 04 34 15.13 | 04 34 09.13 | -12 02 42.0 | -12 00 06.0 |
| 620 | 19C169_J0434-12G2 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 04 34 21.13 | 04 34 27.13 | -12 00 06.0 | -12 02 42.0 |
| 621 | 19C168_J0529-12G1 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 05 20 52.87 | 05 20 46.87 | -12 12 53.3 | -12 10 17.3 |
| 622 | 19C168_J0529-12G2 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 05 20 58.87 | 05 21 04.87 | -12 10 17.3 | -12 12 53.3 |
| 623 | 19C131_J0509-03   | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 05 09 22.00 | /           | -03 33 26.0 | /           |
| 624 | 19C167_J0635-12G1 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 06 35 46.60 | 06 35 40.60 | -12 03 27.9 | -12 00 51.9 |
| 625 | 19C167_J0635-12G2 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | OnOff             | 225           | /           | /           | 06 35 52.60 | 06 35 58.60 | -12 00 51.9 | -12 03 27.9 |
| 626 | DEC-122751-8      | N2023_1     | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1487          | 11 23 00.00 | -12 27 51.3 | /           | /           | /           | /           |
| 627 | DEC-122751-8      | N2023_1     | 2024-05-25 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 294           | 11 23 00.00 | -12 27 51.3 | /           | /           | /           | /           |
| 628 | 19C119_J0846-1049 | ZD2023_6    | 2024-05-25 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 629 | NGC4527_OTF1      | PT2023_0022 | 2024-05-25 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 91            | 12 34 17.76 | +02 25 16.3 | 12 30 48.15 | 12 37 47.37 | +01 41 57.1 | +03 07 26.6 |
| 630 | NGC4527_OTF2      | PT2023_0022 | 2024-05-25 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 81            | 12 34 17.76 | +02 25 16.3 | 12 36 27.84 | 12 32 12.28 | +03 28 27.5 | +01 22 05.2 |
| 631 | NGC5248_OTF1      | PT2023_0022 | 2024-05-25 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 44            | 13 37 32.01 | +08 53 06.5 | 13 34 43.89 | 13 40 20.13 | +08 31 26.9 | +09 13 37.2 |
| 632 | NGC5248_OTF2      | PT2023_0022 | 2024-05-25 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 42            | 13 37 32.01 | +08 53 06.5 | 13 38 59.71 | 13 36 08.97 | +09 34 38.0 | +08 11 35.0 |
| 633 | DEC+082900-f      | N2023_1     | 2024-05-25 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 30 00.00 | +08 29 00.3 | 12 30 00.00 | 14 30 00.00 | +08 29 00.3 | +08 29 00.3 |
| 634 | J1640+2224_1      | PT2023_0001 | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 16 40 16.75 | +22 24 08.7 | /           | /           | /           | /           |
| 635 | J1839+0543        | PT2023_0046 | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 95            | /           | /           | 18 39 24.29 | /           | +05 43 24.9 | /           |
| 636 | G31.42+9.07       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 16 23.74 | +02 47 15.9 | /           | /           | /           | /           |
| 637 | G31.42+9.07       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 16 23.74 | +02 47 15.9 | /           | /           | /           | /           |
| 638 | G30.05+6.86       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 21 45.72 | +00 34 31.5 | /           | /           | /           | /           |
| 639 | G30.05+6.86       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 21 45.72 | +00 34 31.5 | /           | /           | /           | /           |
| 640 | G32.10+5.34       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 30 55.33 | +01 41 47.2 | /           | /           | /           | /           |
| 641 | G32.10+5.34       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 30 55.33 | +01 41 47.2 | /           | /           | /           | /           |
| 642 | G34.30+5.08       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 35 48.97 | +03 32 02.3 | /           | /           | /           | /           |
| 643 | G34.30+5.08       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 35 48.97 | +03 32 02.3 | /           | /           | /           | /           |
| 644 | G36.46+4.41       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 42 08.13 | +05 08 23.4 | /           | /           | /           | /           |
| 645 | G36.46+4.41       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 42 08.13 | +05 08 23.4 | /           | /           | /           | /           |
| 646 | G39.00+3.90       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 48 34.45 | +07 10 22.8 | /           | /           | /           | /           |
| 647 | G39.00+3.90       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 48 34.45 | +07 10 22.8 | /           | /           | /           | /           |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 648 | G44.43+2.63       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 03 08.27 | +11 25 37.4 | /           | /           | /           | /           |
| 649 | G44.43+2.63       | ZD2023_2    | 2024-05-26 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 03 08.27 | +11 25 37.4 | /           | /           | /           | /           |
| 650 | J1917+0616        | PT2023_0085 | 2024-05-26 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3518          | /           | /           | 19 17 15.00 | /           | +06 16 38.0 | /           |
| 651 | FRB20240114A      | PT2023_0073 | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 652 | J2234+0944_1      | PT2023_0001 | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 22 34 46.86 | +09 44 30.1 | /           | /           | /           | /           |
| 653 | J0030+0451        | PT2023_0001 | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 00 30 27.42 | +04 51 39.7 | /           | /           | /           | /           |
| 654 | FRB20220529A      | PT2023_0148 | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 01 16 25.01 | +20 37 57.0 | /           | /           | /           | /           |
| 655 | FRB20220912A      | ZD2023_5    | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 23 09 04.90 | +48 42 25.4 | /           | /           | /           | /           |
| 656 | FRB20220529       | ZD2023_5    | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 01 16 25.01 | +20 37 57.0 | /           | /           | /           | /           |
| 657 | FRB20201124A      | ZD2023_5    | 2024-05-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 05 08 03.51 | +26 03 38.5 | /           | /           | /           | /           |
| 658 | 19C137_J0244+32   | ZD2023_6    | 2024-05-26 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 44 46.00 | /           | +32 18 28.0 | /           |
| 659 | DEC-122751-9      | N2023_1     | 2024-05-26 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1869          | 11 23 00.00 | -12 27 51.3 | /           | /           | /           | /           |
| 660 | DEC-122751-9      | N2023_1     | 2024-05-26 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 370           | 11 23 00.00 | -12 27 51.3 | /           | /           | /           | /           |
| 661 | NGC4527_OTF1      | PT2023_0022 | 2024-05-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 91            | 12 34 17.76 | +02 25 16.3 | 12 30 48.15 | 12 37 47.37 | +01 41 57.1 | +03 07 26.6 |
| 662 | NGC4527_OTF2      | PT2023_0022 | 2024-05-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 81            | 12 34 17.76 | +02 25 16.3 | 12 36 27.84 | 12 32 12.28 | +03 28 27.5 | +01 22 05.2 |
| 663 | DEC+091220-e      | N2023_1     | 2024-05-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 25 00.00 | +09 12 20.7 | 12 25 00.00 | 14 25 00.00 | +09 12 20.7 | +09 12 20.7 |
| 664 | J1738+0333        | PT2023_0001 | 2024-05-27 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 38 53.97 | +03 33 10.9 | /           | /           | /           | /           |
| 665 | J1857+0943_1      | PT2023_0001 | 2024-05-27 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 18 57 36.39 | +09 43 17.1 | /           | /           | /           | /           |
| 666 | 19C123_J1930+2835 | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 30 51.00 | /           | +28 35 02.0 | /           |
| 667 | C49_J2129+41      | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 21 29 19.31 | /           | +41 04 39.6 | /           |
| 668 | FRB20230607A      | ZD2023_5    | 2024-05-27 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 21 53 35.89 | +11 17 04.2 | /           | /           | /           | /           |
| 669 | J2215+5135        | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 22 15 32.68 | /           | +51 35 36.3 | /           |
| 670 | C13_J2323+1214    | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 23 23 21.62 | /           | +12 14 12.7 | /           |
| 671 | 19C151_J0001+6252 | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 00 01 10.00 | /           | +62 52 41.0 | /           |
| 672 | 19C147_J0104      | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 04 42.90 | /           | +60 29 21.1 | /           |
| 673 | 19C150_J0115+6150 | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 15 07.50 | /           | +61 50 00.1 | /           |
| 674 | C10_J0209+2621    | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 09 00.00 | /           | +26 21 22.0 | /           |
| 675 | PPS_14            | N2023_1     | 2024-05-27 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 02 00 00.75 | +44 36 00.3 | 02 00 00.00 | 04 00 00.00 | +44 36 00.3 | +44 36 00.3 |
| 676 | 19C138_J0210+32   | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 10 09.00 | /           | +32 11 23.0 | /           |
| 677 | 19C137_J0244+32   | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 44 46.00 | /           | +32 18 28.0 | /           |
| 678 | J0447+2447        | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 679 | PGC018801_2       | N2023_1     | 2024-05-27 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 392           | 06 18 52.75 | +51 55 22.3 | 06 15 00.00 | 06 24 00.00 | +51 24 30.0 | +52 20 00.0 |
| 680 | 19C140_J0719-05   | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 07 19 22.00 | /           | -05 33 28.0 | /           |
| 681 | 19C119_J0846-1049 | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 682 | J0925+6103        | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 09 25 17.50 | /           | +61 03 04.1 | /           |
| 683 | J0952-06          | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 09 52 08.32 | /           | -06 07 23.5 | /           |
| 684 | DEC-124931-9      | N2023_1     | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1545          | 11 23 00.00 | -12 49 31.5 | /           | /           | /           | /           |
| 685 | DEC-124931-9      | N2023_1     | 2024-05-27 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 306           | 11 23 00.00 | -12 49 31.5 | /           | /           | /           | /           |
| 686 | 19C84_J1239+0326  | ZD2023_6    | 2024-05-27 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 12 39 38.76 | /           | +03 26 10.9 | /           |
| 687 | J1741+1351_1      | PT2023_0001 | 2024-05-28 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 41 31.14 | +13 51 44.1 | /           | /           | /           | /           |
| 688 | G31.08+9.32       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 14 52.42 | +02 36 08.3 | /           | /           | /           | /           |
| 689 | G31.08+9.32       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 14 52.42 | +02 36 08.3 | /           | /           | /           | /           |
| 690 | G29.71+7.12       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 20 14.11 | +00 23 23.5 | /           | /           | /           | /           |
| 691 | G29.71+7.12       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 20 14.11 | +00 23 23.5 | /           | /           | /           | /           |
| 692 | G31.52-2.97       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 59 25.30 | -02 36 37.9 | /           | /           | /           | /           |
| 693 | G31.52-2.97       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 59 25.30 | -02 36 37.9 | /           | /           | /           | /           |
| 694 | G57.39+2.20       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 29 59.42 | +22 41 31.9 | /           | /           | /           | /           |
| 695 | G57.39+2.20       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 29 59.42 | +22 41 31.9 | /           | /           | /           | /           |
| 696 | G59.15+1.36       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 36 55.40 | +23 49 25.3 | /           | /           | /           | /           |
| 697 | G59.15+1.36       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 36 55.40 | +23 49 25.3 | /           | /           | /           | /           |
| 698 | G86.60+0.76       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 20 55 17.09 | +46 17 53.6 | /           | /           | /           | /           |
| 699 | G86.60+0.76       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 55 17.09 | +46 17 53.6 | /           | /           | /           | /           |
| 700 | G86.01-1.10       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 21 01 08.97 | +44 38 10.7 | /           | /           | /           | /           |
| 701 | G86.01-1.10       | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 01 08.97 | +44 38 10.7 | /           | /           | /           | /           |

| ID  | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 702 | 19C31_J2238-12                   | ZD2023_6    | 2024-05-28 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 22 38 44.00 | /           | -12 21 30.0 | /           |
| 703 | J0023+0923                       | PT2023_0001 | 2024-05-28 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 00 23 16.87 | +09 23 23.8 | /           | /           | /           | /           |
| 704 | G152.40-1.78                     | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 08 13.26 | +49 29 40.0 | /           | /           | /           | /           |
| 705 | G152.40-1.78                     | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 08 13.26 | +49 29 40.0 | /           | /           | /           | /           |
| 706 | G151.27-1.86                     | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 02 40.42 | +50 10 52.7 | /           | /           | /           | /           |
| 707 | G151.27-1.86                     | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 02 40.42 | +50 10 52.7 | /           | /           | /           | /           |
| 708 | G179.20-1.44                     | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 38 06.56 | +28 51 09.5 | /           | /           | /           | /           |
| 709 | G179.20-1.44                     | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 38 06.56 | +28 51 09.5 | /           | /           | /           | /           |
| 710 | G207.18-0.59                     | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 38 48.51 | +04 50 33.0 | /           | /           | /           | /           |
| 711 | G207.18-0.59                     | ZD2023_2    | 2024-05-28 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 38 48.51 | +04 50 33.0 | /           | /           | /           | /           |
| 712 | 19C108_J0844-03G1                | ZD2023_6    | 2024-05-28 | 19波束接收机  | all      | psr(1k)   | OnOff             | 761           | /           | /           | 08 44 39.00 | 08 44 33.00 | -03 29 52.0 | -03 27 16.0 |
| 713 | 19C108_J0844-03G2                | ZD2023_6    | 2024-05-28 | 19波束接收机  | all      | psr(1k)   | OnOff             | 761           | /           | /           | 08 44 45.00 | 08 44 51.00 | -03 27 16.0 | -03 29 52.0 |
| 714 | DEC+074539-e                     | N2023_1     | 2024-05-28 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 08 00 00.00 | +07 45 39.9 | 08 00 00.00 | 10 00 00.00 | +07 45 39.9 | +07 45 39.9 |
| 715 | DEC+064039-c                     | N2023_1     | 2024-05-28 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 00 00.00 | +06 40 39.3 | 11 00 00.00 | 13 00 00.00 | +06 40 39.3 | +06 40 39.3 |
| 716 | DEC-122751-10                    | N2023_1     | 2024-05-28 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2239          | 11 23 00.00 | -12 27 51.3 | /           | /           | /           | /           |
| 717 | DEC-122751-10                    | N2023_1     | 2024-05-28 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 443           | 11 23 00.00 | -12 27 51.3 | /           | /           | /           | /           |
| 718 | J1713+0747_1                     | PT2023_0096 | 2024-05-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 13 49.53 | +07 47 37.5 | /           | /           | /           | /           |
| 719 | J1521+5222                       | PT2023_0028 | 2024-05-29 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 15 21 46.56 | +52 22 04.0 | /           | /           | /           | /           |
| 720 | J1830-0212                       | PT2023_0028 | 2024-05-29 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 18 30 04.45 | -02 12 40.4 | /           | /           | /           | /           |
| 721 | J1853-0559                       | PT2023_0028 | 2024-05-29 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 18 53 24.59 | -05 59 43.9 | /           | /           | /           | /           |
| 722 | J1855-0756                       | PT2023_0110 | 2024-05-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 723 | C62_J1913+4044                   | ZD2023_6    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 13 59.00 | /           | +40 44 02.0 | /           |
| 724 | 19C118_J1937+14                  | ZD2023_6    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 19 37 41.01 | /           | +14 17 14.7 | /           |
| 725 | C52_J1929+4104                   | ZD2023_6    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 726 | J1952+1837                       | PT2023_0028 | 2024-05-29 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 19 52 49.28 | +18 37 34.2 | /           | /           | /           | /           |
| 727 | J2019+1921                       | PT2023_0028 | 2024-05-29 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 20 19 46.73 | +19 21 48.0 | /           | /           | /           | /           |
| 728 | J2238-1221                       | PT2023_0204 | 2024-05-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 114           | 22 38 44.13 | -12 21 31.1 | /           | /           | /           | /           |
| 729 | J2108+5156                       | PT2023_0028 | 2024-05-29 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 21 08 00.94 | +51 55 56.2 | /           | /           | /           | /           |
| 730 | C49_J2129+41                     | ZD2023_6    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 21 29 19.31 | /           | +41 04 39.6 | /           |
| 731 | J2215+5135                       | ZD2023_6    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 22 15 32.68 | /           | +51 35 36.3 | /           |
| 732 | 19C137_J0244+32                  | ZD2023_6    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 44 46.00 | /           | +32 18 28.0 | /           |
| 733 | 19C151_J0001+6252                | ZD2023_6    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 00 01 10.00 | /           | +62 52 41.0 | /           |
| 734 | DEC+590248-12                    | N2023_1     | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | +59 02 48.3 | /           | /           | /           | /           |
| 735 | DEC+590248-12                    | N2023_1     | 2024-05-29 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | +59 02 48.3 | /           | /           | /           | /           |
| 736 | G170.99-1.78                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 15 06.26 | +35 28 58.1 | /           | /           | /           | /           |
| 737 | G170.99-1.78                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 15 06.26 | +35 28 58.1 | /           | /           | /           | /           |
| 738 | G203.03-1.19                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 28 58.33 | +08 15 30.6 | /           | /           | /           | /           |
| 739 | G203.03-1.19                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 28 58.33 | +08 15 30.6 | /           | /           | /           | /           |
| 740 | G204.54-0.93                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 32 42.76 | +07 01 55.1 | /           | /           | /           | /           |
| 741 | G204.54-0.93                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 32 42.76 | +07 01 55.1 | /           | /           | /           | /           |
| 742 | G204.93-0.76                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 34 02.73 | +06 45 46.5 | /           | /           | /           | /           |
| 743 | G204.93-0.76                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 34 02.73 | +06 45 46.5 | /           | /           | /           | /           |
| 744 | G204.00+0.85                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 38 05.36 | +08 19 42.4 | /           | /           | /           | /           |
| 745 | G204.00+0.85                     | ZD2023_2    | 2024-05-29 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 38 05.36 | +08 19 42.4 | /           | /           | /           | /           |
| 746 | FRB121102                        | PT2023_0073 | 2024-05-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 747 | Dec+1459_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-05-29 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00 | +14 59 03.9 | /           | /           | /           | /           |
| 748 | Dec+1459_09_05                   | ZD2023_1_2  | 2024-05-29 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00 | +14 59 03.9 | /           | /           | /           | /           |
| 749 | J1304+3550                       | PT2023_0028 | 2024-05-29 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 13 03 57.52 | +35 50 43.2 | /           | /           | /           | /           |
| 750 | DEC-114430-6                     | N2023_1     | 2024-05-29 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1009          | 11 23 00.00 | -11 44 30.9 | /           | /           | /           | /           |
| 751 | DEC-114430-6                     | N2023_1     | 2024-05-29 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 200           | 11 23 00.00 | -11 44 30.9 | /           | /           | /           | /           |
| 752 | G37.88+3.81                      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 18 46 50.04 | +06 08 00.6 | /           | /           | /           | /           |
| 753 | G37.88+3.81                      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 18 46 50.04 | +06 08 00.6 | /           | /           | /           | /           |
| 754 | G40.42+3.30                      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 53 17.69 | +08 10 01.5 | /           | /           | /           | /           |
| 755 | G40.42+3.30                      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 53 17.69 | +08 10 01.5 | /           | /           | /           | /           |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 756 | G42.62+3.05       | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 58 15.10 | +10 00 37.7 | /           | /           | /           | /           |
| 757 | G42.62+3.05       | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 58 15.10 | +10 00 37.7 | /           | /           | /           | /           |
| 758 | G44.09+2.88       | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 01 34.73 | +11 14 18.8 | /           | /           | /           | /           |
| 759 | G44.09+2.88       | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 01 34.73 | +11 14 18.8 | /           | /           | /           | /           |
| 760 | G68.50-1.44       | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 20 09 19.28 | +30 23 56.8 | /           | /           | /           | /           |
| 761 | G68.50-1.44       | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 20 09 19.28 | +30 23 56.8 | /           | /           | /           | /           |
| 762 | DEC-112250-6      | N2023_1     | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 829           | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 763 | DEC-112250-6      | N2023_1     | 2024-05-30 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 164           | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 764 | J0034-0534        | PT2023_0137 | 2024-05-30 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 1129          | /           | /           | 00 34 21.83 | /           | -05 34 36.7 | /           |
| 765 | DEC+124902-c      | N2023_1     | 2024-05-30 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 01 40 00.00 | +12 49 02.7 | 01 40 00.00 | 03 40 00.00 | +12 49 02.7 | +12 49 02.7 |
| 766 | 19C139_0226+33    | ZD2023_6    | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 26 56.29 | /           | +33 56 08.9 | /           |
| 767 | G163.16+1.27      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 05 03 37.44 | +43 35 11.4 | /           | /           | /           | /           |
| 768 | G163.16+1.27      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 03 37.44 | +43 35 11.4 | /           | /           | /           | /           |
| 769 | G164.28+1.36      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 07 43.15 | +42 44 28.0 | /           | /           | /           | /           |
| 770 | G164.28+1.36      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 07 43.15 | +42 44 28.0 | /           | /           | /           | /           |
| 771 | G192.95-1.53      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 08 10.75 | +16 58 19.3 | /           | /           | /           | /           |
| 772 | G192.95-1.53      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 08 10.75 | +16 58 19.3 | /           | /           | /           | /           |
| 773 | G206.60+0.76      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 42 34.26 | +05 59 06.1 | /           | /           | /           | /           |
| 774 | G206.60+0.76      | ZD2023_2    | 2024-05-30 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 42 34.26 | +05 59 06.1 | /           | /           | /           | /           |
| 775 | J0646-0201        | PT2023_0028 | 2024-05-30 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 06 46 06.35 | -02 01 05.9 | /           | /           | /           | /           |
| 776 | C74_J0806-07      | ZD2023_6    | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 06 18.70 | /           | -07 53 20.5 | /           |
| 777 | J0735-0121        | PT2023_0028 | 2024-05-30 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 07 35 23.22 | -01 21 00.9 | /           | /           | /           | /           |
| 778 | J0842+3759        | PT2023_0028 | 2024-05-30 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 08 42 23.14 | +37 59 00.0 | /           | /           | /           | /           |
| 779 | J0905+4223        | PT2023_0028 | 2024-05-30 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 24            | 09 05 53.44 | +42 23 15.1 | /           | /           | /           | /           |
| 780 | 19C136_J1048+53_1 | ZD2023_6    | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 781 | J1232+0933        | PT2023_0028 | 2024-05-30 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 12 32 46.32 | +09 33 48.7 | /           | /           | /           | /           |
| 782 | 19C136_J1048+53_2 | ZD2023_6    | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 783 | DEC-103930-6      | N2023_1     | 2024-05-30 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1153          | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 784 | DEC-103930-6      | N2023_1     | 2024-05-30 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 228           | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 785 | J1454+2302        | PT2023_0028 | 2024-05-30 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 24            | 14 54 44.81 | +23 02 41.3 | /           | /           | /           | /           |
| 786 | J1623-0841        | PT2023_0129 | 2024-05-30 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 941           | /           | /           | 16 23 42.68 | /           | -08 41 36.6 | /           |
| 787 | J1900+4221        | PT2023_0114 | 2024-05-31 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 50037         | /           | /           | 19 00 13.00 | /           | +42 21 07.0 | /           |
| 788 | J1906-0618        | PT2023_0028 | 2024-05-31 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 19 06 55.85 | -06 18 01.7 | /           | /           | /           | /           |
| 789 | J1946+2052        | PT2023_0035 | 2024-05-31 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2258          | /           | /           | 19 46 14.13 | /           | +20 52 24.6 | /           |
| 790 | J1942+4710        | PT2023_0028 | 2024-05-31 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 19 42 42.00 | +47 10 10.3 | /           | /           | /           | /           |
| 791 | 19C155_J1958+23G1 | ZD2023_6    | 2024-05-31 | 19波束接收机  | all      | psr(1k)   | OnOff             | 1119          | /           | /           | 19 58 08.31 | 19 58 02.31 | +23 32 44.1 | +23 35 20.1 |
| 792 | 19C155_J1958+23G2 | ZD2023_6    | 2024-05-31 | 19波束接收机  | all      | psr(1k)   | OnOff             | 1119          | /           | /           | 19 58 14.31 | 19 58 20.31 | +23 35 20.1 | +23 32 44.1 |
| 793 | 19C150_J0115+6150 | ZD2023_6    | 2024-05-31 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 15 07.50 | /           | +61 50 00.1 | /           |
| 794 | G172.11-1.69      | ZD2023_2    | 2024-05-31 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 05 18 37.26 | +34 36 52.5 | /           | /           | /           | /           |
| 795 | G172.11-1.69      | ZD2023_2    | 2024-05-31 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 18 37.26 | +34 36 52.5 | /           | /           | /           | /           |
| 796 | G175.88-1.27      | ZD2023_2    | 2024-05-31 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 30 24.86 | +31 44 19.3 | /           | /           | /           | /           |
| 797 | G175.88-1.27      | ZD2023_2    | 2024-05-31 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 30 24.86 | +31 44 19.3 | /           | /           | /           | /           |
| 798 | G195.20-1.36      | ZD2023_2    | 2024-05-31 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 13 18.50 | +15 04 57.2 | /           | /           | /           | /           |
| 799 | G195.20-1.36      | ZD2023_2    | 2024-05-31 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 13 18.50 | +15 04 57.2 | /           | /           | /           | /           |
| 800 | G206.06-0.68      | ZD2023_2    | 2024-05-31 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 36 25.89 | +05 48 11.1 | /           | /           | /           | /           |
| 801 | G206.06-0.68      | ZD2023_2    | 2024-05-31 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 36 25.89 | +05 48 11.1 | /           | /           | /           | /           |
| 802 | DEC+120542-b      | N2023_1     | 2024-05-31 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 332           | 07 30 00.00 | +12 05 42.3 | 07 30 00.00 | 10 00 00.00 | +12 05 42.3 | +12 05 42.3 |
| 803 | DEC+345054-b      | N2023_1     | 2024-05-31 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 10 00 00.00 | +34 50 54.9 | 10 00 00.00 | 12 00 00.00 | +34 50 54.9 | +34 50 54.9 |
| 804 | DEC-110110-6      | N2023_1     | 2024-05-31 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1892          | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 805 | DEC-110110-6      | N2023_1     | 2024-05-31 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 374           | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 806 | 19C76_J1708-0426  | ZD2023_6    | 2024-06-01 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 17 08 49.00 | /           | -04 26 17.0 | /           |
| 807 | J1720+00          | PT2023_0129 | 2024-06-01 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 941           | /           | /           | 17 20 55.00 | /           | +00 40 00.0 | /           |
| 808 | J1849+1001        | PT2023_0046 | 2024-06-01 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 95            | /           | /           | 18 49 00.73 | /           | +10 01 01.1 | /           |
| 809 | 19C46_J1813-0852  | ZD2023_6    | 2024-06-01 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 13 35.06 | /           | -08 52 18.8 | /           |

| ID  | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 810 | G36.07+4.24                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 18 42 02.00 | +04 42 54.6 | /           | /           | /           | /           |
| 811 | G36.07+4.24                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 18 42 02.00 | +04 42 54.6 | /           | /           | /           | /           |
| 812 | G41.15+3.22                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 54 56.59 | +08 46 54.0 | /           | /           | /           | /           |
| 813 | G41.15+3.22                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 54 56.59 | +08 46 54.0 | /           | /           | /           | /           |
| 814 | G43.35+2.97                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 59 54.76 | +10 37 28.6 | /           | /           | /           | /           |
| 815 | G43.35+2.97                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 59 54.76 | +10 37 28.6 | /           | /           | /           | /           |
| 816 | G65.86+1.44                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 51 34.62 | +29 40 20.5 | /           | /           | /           | /           |
| 817 | G65.86+1.44                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 51 34.62 | +29 40 20.5 | /           | /           | /           | /           |
| 818 | G75.98-1.02                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 20 27 53.06 | +36 49 23.5 | /           | /           | /           | /           |
| 819 | G75.98-1.02                      | ZD2023_2    | 2024-06-01 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 27 53.06 | +36 49 23.5 | /           | /           | /           | /           |
| 820 | FRB20240114A                     | PT2023_0073 | 2024-06-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 821 | 19C88_J2021+2435                 | ZD2023_6    | 2024-06-01 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 20 21 16.00 | /           | +24 35 59.0 | /           |
| 822 | J2150+3427                       | PT2023_0147 | 2024-06-01 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 21 50 33.00 | /           | +34 27 37.2 | /           |
| 823 | J0925+6103                       | ZD2023_6    | 2024-06-02 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 09 25 17.50 | /           | +61 03 04.1 | /           |
| 824 | J0952-06                         | ZD2023_6    | 2024-06-02 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 09 52 08.32 | /           | -06 07 23.5 | /           |
| 825 | 19C136_J1048+53                  | ZD2023_6    | 2024-06-02 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 985           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 826 | DEC+072359-d                     | N2023_1     | 2024-06-02 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 180           | 13 00 00.00 | +07 23 59.7 | 13 00 00.00 | 15 00 00.00 | +07 23 59.7 | +07 23 59.7 |
| 827 | DEC-131111-6                     | N2023_1     | 2024-06-02 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1254          | 11 23 00.00 | -13 11 11.7 | /           | /           | /           | /           |
| 828 | DEC-131111-6                     | N2023_1     | 2024-06-02 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 248           | 11 23 00.00 | -13 11 11.7 | /           | /           | /           | /           |
| 829 | source_31                        | PT2023_0025 | 2024-06-02 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 1             | /           | /           | 14 18 25.73 | 14 17 45.73 | +36 29 36.8 | +36 29 36.8 |
| 830 | source_65                        | PT2023_0025 | 2024-06-02 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 2             | /           | /           | 15 26 02.88 | 15 25 22.88 | +18 04 25.0 | +18 04 25.0 |
| 831 | source_78                        | PT2023_0025 | 2024-06-03 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 1             | /           | /           | 16 44 49.49 | 16 44 09.49 | +22 31 16.9 | +22 31 16.9 |
| 832 | source_106                       | PT2023_0025 | 2024-06-03 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 1             | /           | /           | 18 22 21.92 | 18 21 41.92 | +23 28 42.9 | +23 28 42.9 |
| 833 | 19C81_J1814-00                   | ZD2023_6    | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 14 55.20 | /           | -00 57 54.4 | /           |
| 834 | J1746-0157                       | PT2023_0065 | 2024-06-03 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 76            | /           | /           | 17 46 29.85 | /           | -01 57 17.6 | /           |
| 835 | 19C151_J0001+6252                | ZD2023_6    | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 00 01 10.00 | /           | +62 52 41.0 | /           |
| 836 | 19C147_J0104                     | ZD2023_6    | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 04 41.90 | /           | +60 29 47.1 | /           |
| 837 | 19C109_J0227+28G1                | ZD2023_6    | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 1878          | /           | /           | 02 27 41.00 | /           | +28 59 29.0 | /           |
| 838 | G165.41+1.44                     | ZD2023_2    | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 11 42.34 | +41 53 13.9 | /           | /           | /           | /           |
| 839 | G165.41+1.44                     | ZD2023_2    | 2024-06-03 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 11 42.34 | +41 53 13.9 | /           | /           | /           | /           |
| 840 | G185.81+1.02                     | ZD2023_2    | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 02 43.06 | +24 26 38.1 | /           | /           | /           | /           |
| 841 | G185.81+1.02                     | ZD2023_2    | 2024-06-03 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 02 43.06 | +24 26 38.1 | /           | /           | /           | /           |
| 842 | G207.87-1.10                     | ZD2023_2    | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 38 15.35 | +04 00 03.1 | /           | /           | /           | /           |
| 843 | G207.87-1.10                     | ZD2023_2    | 2024-06-03 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 38 15.35 | +04 00 03.1 | /           | /           | /           | /           |
| 844 | G206.40-0.93                     | ZD2023_2    | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 36 09.40 | +05 22 55.9 | /           | /           | /           | /           |
| 845 | G206.40-0.93                     | ZD2023_2    | 2024-06-03 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 36 09.40 | +05 22 55.9 | /           | /           | /           | /           |
| 846 | J0632+4147                       | PT2023_0034 | 2024-06-03 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 189           | /           | /           | 06 32 05.60 | /           | +41 47 35.6 | /           |
| 847 | Dec+1437_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-06-03 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00 | +14 37 23.7 | /           | /           | /           | /           |
| 848 | Dec+1437_09_05                   | ZD2023_1_2  | 2024-06-03 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00 | +14 37 23.7 | /           | /           | /           | /           |
| 849 | DEC-124931-10                    | N2023_1     | 2024-06-03 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | -12 49 31.5 | /           | /           | /           | /           |
| 850 | DEC-124931-10                    | N2023_1     | 2024-06-03 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | -12 49 31.5 | /           | /           | /           | /           |
| 851 | J1840+03                         | PT2023_0079 | 2024-06-04 | 19波束接收机  | all      | psr(4k)   | TrackingWithAngle | 362           | 18 40 14.31 | +03 23 16.4 | /           | /           | /           | /           |
| 852 | J1944+16                         | PT2023_0079 | 2024-06-04 | 19波束接收机  | all      | psr(4k)   | TrackingWithAngle | 362           | 19 44 15.69 | +16 54 39.9 | /           | /           | /           | /           |
| 853 | 19C113_J1846-0512                | ZD2023_6    | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 46 05.00 | /           | -05 12 18.0 | /           |
| 854 | 19C50_J1839-08                   | ZD2023_6    | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 38 49.00 | /           | -07 39 51.0 | /           |
| 855 | 19C30_1912-12                    | ZD2023_6    | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 12 29.00 | /           | -12 15 26.0 | /           |
| 856 | J1906+0746                       | PT2023_0010 | 2024-06-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1411          | 19 06 48.68 | +07 46 25.9 | /           | /           | /           | /           |
| 857 | PKS2209+080                      | PT2023_0010 | 2024-06-04 | 19波束接收机  | beam1    | psr(4k)   | OnOff             | 57            | /           | /           | 22 12 01.58 | 22 12 01.58 | +08 19 16.5 | +09 19 16.5 |
| 858 | J2204+0947                       | PT2023_0034 | 2024-06-04 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 189           | /           | /           | 22 04 55.30 | /           | +09 47 37.6 | /           |
| 859 | J2149+5644                       | PT2023_0034 | 2024-06-04 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 189           | /           | /           | 21 49 47.20 | /           | +56 44 39.7 | /           |
| 860 | J2234+0944                       | PT2023_0001 | 2024-06-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 22 34 46.86 | +09 44 30.1 | /           | /           | /           | /           |
| 861 | DEC+124902-d                     | N2023_1     | 2024-06-04 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 23 45 00.00 | +12 49 02.7 | 23 45 00.00 | 01 45 00.00 | +12 49 02.7 | +12 49 02.7 |
| 862 | J0030+0451                       | PT2023_0001 | 2024-06-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 00 30 27.42 | +04 51 39.7 | /           | /           | /           | /           |
| 863 | DEC+590248-11                    | N2023_1     | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2015          | 11 23 00.00 | +59 02 48.3 | /           | /           | /           | /           |

| ID  | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 864 | DEC+590248-11     | N2023_1     | 2024-06-04 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 399           | 11 23 00.00 | +59 02 48.3 | /           | /           | /           | /           |
| 865 | 19C131_J0509-03   | ZD2023_6    | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 05 09 22.00 | /           | -03 33 26.0 | /           |
| 866 | FRB180301         | PT2023_0180 | 2024-06-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 06 12 54.44 | +04 40 15.8 | /           | /           | /           | /           |
| 867 | C74_J0806-07      | ZD2023_6    | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 06 18.70 | /           | -07 53 20.5 | /           |
| 868 | 19C110_J0745-04   | ZD2023_6    | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 07 46 52.00 | /           | -04 11 09.0 | /           |
| 869 | J0756-0517        | PT2023_0034 | 2024-06-04 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 189           | /           | /           | 07 56 12.90 | /           | -05 17 00.6 | /           |
| 870 | 19C108_J0844-03G1 | ZD2023_6    | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | OnOff             | 583           | /           | /           | 08 44 39.00 | 08 44 33.00 | -03 29 52.0 | -03 27 16.0 |
| 871 | 19C108_J0844-03G2 | ZD2023_6    | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | OnOff             | 583           | /           | /           | 08 44 45.00 | 08 44 51.00 | -03 27 16.0 | -03 29 52.0 |
| 872 | source_42         | PT2023_0025 | 2024-06-04 | 19波束接收机  | beam1    | spec(W+N) | OnOff             | 2             | /           | /           | 08 01 23.13 | 08 00 43.13 | +15 22 09.3 | +15 22 09.3 |
| 873 | DEC-103930-7      | N2023_1     | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 874 | DEC-103930-7      | N2023_1     | 2024-06-04 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 875 | J1229-0621        | PT2023_0090 | 2024-06-04 | 19波束接收机  | all      | psr(4k)   | Tracking          | 28785         | 12 29 38.13 | -06 13 57.4 | /           | /           | /           | /           |
| 876 | DEC-095609-6      | N2023_1     | 2024-06-04 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1858          | 11 23 00.00 | -09 56 09.9 | /           | /           | /           | /           |
| 877 | DEC-095609-6      | N2023_1     | 2024-06-04 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 368           | 11 23 00.00 | -09 56 09.9 | /           | /           | /           | /           |
| 878 | J1640+2224        | PT2023_0001 | 2024-06-05 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 16 40 16.75 | +22 24 08.7 | /           | /           | /           | /           |
| 879 | J1738+0333        | PT2023_0001 | 2024-06-05 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 38 53.97 | +03 33 10.9 | /           | /           | /           | /           |
| 880 | G31.71+8.39       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 19 20.49 | +02 44 17.2 | /           | /           | /           | /           |
| 881 | G31.71+8.39       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 19 20.49 | +02 44 17.2 | /           | /           | /           | /           |
| 882 | G30.39+6.61       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 23 17.32 | +00 45 41.0 | /           | /           | /           | /           |
| 883 | G30.39+6.61       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 23 17.32 | +00 45 41.0 | /           | /           | /           | /           |
| 884 | G29.07+1.61       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 38 39.13 | -02 41 59.0 | /           | /           | /           | /           |
| 885 | G29.07+1.61       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 38 39.13 | -02 41 59.0 | /           | /           | /           | /           |
| 886 | G32.40-5.00       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 08 16.40 | -02 45 07.1 | /           | /           | /           | /           |
| 887 | G32.40-5.00       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 08 16.40 | -02 45 07.1 | /           | /           | /           | /           |
| 888 | G56.90-2.03       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 44 50.56 | +20 11 35.9 | /           | /           | /           | /           |
| 889 | G56.90-2.03       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 44 50.56 | +20 11 35.9 | /           | /           | /           | /           |
| 890 | G65.17-1.27       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 20 00 31.51 | +27 40 48.9 | /           | /           | /           | /           |
| 891 | G65.17-1.27       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 00 31.51 | +27 40 48.9 | /           | /           | /           | /           |
| 892 | G67.03-1.27       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 20 05 00.89 | +29 15 18.4 | /           | /           | /           | /           |
| 893 | G67.03-1.27       | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 05 00.89 | +29 15 18.4 | /           | /           | /           | /           |
| 894 | FRB121102         | PT2023_0073 | 2024-06-05 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 895 | G169.13+1.44      | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 22 58.82 | +38 51 12.0 | /           | /           | /           | /           |
| 896 | G169.13+1.44      | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 22 58.82 | +38 51 12.0 | /           | /           | /           | /           |
| 897 | G202.19+1.27      | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 36 14.88 | +10 07 50.2 | /           | /           | /           | /           |
| 898 | G202.19+1.27      | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 36 14.88 | +10 07 50.2 | /           | /           | /           | /           |
| 899 | G207.92-0.68      | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 39 51.34 | +04 09 05.6 | /           | /           | /           | /           |
| 900 | G207.92-0.68      | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 39 51.34 | +04 09 05.6 | /           | /           | /           | /           |
| 901 | G208.02+0.17      | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 43 03.42 | +04 27 08.2 | /           | /           | /           | /           |
| 902 | G208.02+0.17      | ZD2023_2    | 2024-06-05 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 43 03.42 | +04 27 08.2 | /           | /           | /           | /           |
| 903 | 19C120_J0640-0139 | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 06 40 47.00 | /           | -01 39 23.0 | /           |
| 904 | 19C140_J0719-05   | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 07 19 22.00 | /           | -05 33 28.0 | /           |
| 905 | 19C110_J0745-04   | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 07 46 52.00 | /           | -04 11 09.0 | /           |
| 906 | C74_J0806-07      | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 06 18.70 | /           | -07 53 20.5 | /           |
| 907 | J0925+6103        | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 09 25 17.50 | /           | +61 03 04.1 | /           |
| 908 | 19C119_J0846-1049 | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 909 | J0952-06          | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 09 52 08.32 | /           | -06 07 23.5 | /           |
| 910 | 19C136_J1048+53   | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 911 | DEC-101750-6      | N2023_1     | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2048          | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 912 | DEC-101750-6      | N2023_1     | 2024-06-05 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 405           | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 913 | 19C84_J1239+0326  | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 12 39 38.76 | /           | +03 26 10.9 | /           |
| 914 | C61_J1408+4944    | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 14 08 36.56 | /           | +49 44 50.2 | /           |
| 915 | C46_J1502+46      | ZD2023_6    | 2024-06-05 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 15 02 19.83 | /           | +46 53 27.4 | /           |
| 916 | J1641+3627B       | PT2023_0098 | 2024-06-05 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 35            | 16 41 40.39 | +36 25 58.5 | /           | /           | /           | /           |
| 917 | FRB190520         | PT2023_0029 | 2024-06-05 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 16 02 04.27 | -11 17 17.3 | /           | /           | /           | /           |

| ID  | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode             | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|-----|----------------------------------|-------------|------------|----------|----------|-----------|----------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 918 | J1737-0314A                      | PT2023_0098 | 2024-06-06 | 19波束接收机  | beam1    | psr(8k)   | Tracking             | 339           | 17 37 35.89 | -03 14 34.8 | /           | /           | /           | /           |
| 919 | J1804+0101                       | PT2023_0027 | 2024-06-06 | 19波束接收机  | beam1    | spec(F)   | OnOff                | 6             | /           | /           | 18 04 15.98 | 18 05 15.98 | +01 01 32.4 | +01 01 32.4 |
| 920 | G31.0+2.0                        | PT2023_0027 | 2024-06-06 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle    | 178           | 18 40 47.66 | -00 48 22.6 | /           | /           | /           | /           |
| 921 | G31.0+0.0_RA                     | PT2023_0027 | 2024-06-06 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF         | 1151          | 18 47 54.79 | -01 43 09.6 | 18 43 54.79 | 18 51 54.79 | -02 43 09.6 | -00 43 09.6 |
| 922 | J1901+1306                       | PT2023_0050 | 2024-06-06 | 19波束接收机  | beam1    | psr(8k)   | Tracking             | 1129          | 19 01 48.77 | +13 06 48.3 | /           | /           | /           | /           |
| 923 | J1914+1029g                      | PT2023_0050 | 2024-06-06 | 19波束接收机  | beam1    | psr(8k)   | Tracking             | 1129          | 19 14 23.00 | +10 29 00.0 | /           | /           | /           | /           |
| 924 | G92.03-0.51                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | psr(2k)   | SnapShotCal          | 2061          | 21 22 50.43 | +49 25 27.3 | /           | /           | /           | /           |
| 925 | G92.03-0.51                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | spec(F)   | SnapShotCal          | 408           | 21 22 50.43 | +49 25 27.3 | /           | /           | /           | /           |
| 926 | G90.66-2.71                      | G90.66-2.71 | 2024-06-06 | 19波束接收机  | all      | psr(2k)   | SnapShot             | 1166          | 21 26 12.25 | +46 53 31.0 | /           | /           | /           | /           |
| 927 | G90.66-2.71                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | spec(F)   | SnapShot             | 231           | 21 26 12.25 | +46 53 31.0 | /           | /           | /           | /           |
| 928 | G96.04-7.63                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | psr(2k)   | SnapShot             | 1166          | 22 08 37.13 | +46 34 08.2 | /           | /           | /           | /           |
| 929 | G96.04-7.63                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | spec(F)   | SnapShot             | 231           | 22 08 37.13 | +46 34 08.2 | /           | /           | /           | /           |
| 930 | G96.38-7.88                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | psr(2k)   | SnapShot             | 1166          | 22 11 05.08 | +46 33 35.1 | /           | /           | /           | /           |
| 931 | G96.38-7.88                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | spec(F)   | SnapShot             | 231           | 22 11 05.08 | +46 33 35.1 | /           | /           | /           | /           |
| 932 | G96.97-9.24                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | psr(2k)   | SnapShotCal          | 1345          | 22 18 17.70 | +45 46 28.9 | /           | /           | /           | /           |
| 933 | G96.97-9.24                      | ZD2023_2    | 2024-06-06 | 19波束接收机  | all      | spec(F)   | SnapShotCal          | 266           | 22 18 17.70 | +45 46 28.9 | /           | /           | /           | /           |
| 934 | C70_J2312-0905                   | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 23 12 26.34 | /           | -09 05 44.7 | /           |
| 935 | 3C48                             | PT2023_0027 | 2024-06-06 | 19波束接收机  | all      | spec(F)   | MultiBeamCalibration | 284           | 01 37 41.30 | +33 09 35.1 | /           | /           | /           | /           |
| 936 | 19C68_J2319+2048                 | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 23 19 34.00 | /           | +20 48 01.0 | /           |
| 937 | 19C89_J2329+2653                 | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 627           | /           | /           | 23 29 51.00 | /           | +26 53 59.0 | /           |
| 938 | 19C150_J0115+6150                | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 01 15 07.50 | /           | +61 50 00.1 | /           |
| 939 | 19C147_J0104                     | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 01 04 41.90 | /           | +60 29 47.1 | /           |
| 940 | C41_J2358+4237                   | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 1431          | /           | /           | 23 58 45.00 | /           | +42 37 39.0 | /           |
| 941 | 19C152_J0231+62                  | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 02 31 41.30 | /           | +62 54 04.0 | /           |
| 942 | PSR_J0344-0901                   | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 03 44 37.47 | /           | -09 01 02.7 | /           |
| 943 | C10_J0209+2621                   | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 627           | /           | /           | 02 09 00.00 | /           | +26 21 22.0 | /           |
| 944 | 19C138_J0210+32                  | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 627           | /           | /           | 02 10 09.00 | /           | +32 11 23.0 | /           |
| 945 | 19C139_J0226+33                  | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 627           | /           | /           | 02 26 56.29 | /           | +33 56 08.9 | /           |
| 946 | 19C168_J0529-12G1                | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | OnOff                | 404           | /           | /           | 05 20 52.87 | 05 20 46.87 | -12 12 53.3 | -12 10 17.3 |
| 947 | 19C168_J0529-12G2                | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | OnOff                | 404           | /           | /           | 05 20 58.87 | 05 21 04.87 | -12 10 17.3 | -12 12 53.3 |
| 948 | 19C114_J0446+24                  | ZD2023_6    | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 806           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 949 | FRB180301                        | PT2023_0180 | 2024-06-06 | 19波束接收机  | beam1    | psr(4k)   | Tracking             | 1129          | 06 12 54.44 | +04 40 15.8 | /           | /           | /           | /           |
| 950 | Dec+1415_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-06-06 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle       | 5787          | 09 00 00.00 | +14 15 43.5 | /           | /           | /           | /           |
| 951 | Dec+1415_09_05                   | ZD2023_1_2  | 2024-06-06 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle       | 3430          | 09 00 00.00 | +14 15 43.5 | /           | /           | /           | /           |
| 952 | DEC-110110-7                     | N2023_1     | 2024-06-06 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle    | 2015          | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 953 | DEC-110110-7                     | N2023_1     | 2024-06-06 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle    | 399           | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 954 | J1804+0101                       | PT2023_0027 | 2024-06-07 | 19波束接收机  | beam1    | spec(F)   | OnOff                | 6             | /           | /           | 18 04 15.98 | 18 05 15.98 | +01 01 32.4 | +01 01 32.4 |
| 955 | G31.0+0.0_DE                     | PT2023_0027 | 2024-06-07 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF         | 949           | 18 47 54.79 | -01 43 09.6 | 18 44 54.79 | 18 50 54.79 | -02 58 09.6 | -00 28 09.6 |
| 956 | G31.0+2.0                        | PT2023_0027 | 2024-06-07 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle    | 178           | 18 40 47.66 | -00 48 22.6 | /           | /           | /           | /           |
| 957 | G36.21-4.15                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(2k)   | SnapShotCal          | 2061          | 19 12 12.02 | +01 01 08.2 | /           | /           | /           | /           |
| 958 | G36.21-4.15                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShotCal          | 408           | 19 12 12.02 | +01 01 08.2 | /           | /           | /           | /           |
| 959 | G46.83-2.37                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(2k)   | SnapShot             | 1882          | 19 25 44.25 | +11 13 32.0 | /           | /           | /           | /           |
| 960 | G46.83-2.37                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 19 25 44.25 | +11 13 32.0 | /           | /           | /           | /           |
| 961 | G48.29-2.54                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(2k)   | SnapShot             | 1882          | 19 29 11.69 | +12 26 05.9 | /           | /           | /           | /           |
| 962 | G48.29-2.54                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 19 29 11.69 | +12 26 05.9 | /           | /           | /           | /           |
| 963 | G55.44-1.86                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(2k)   | SnapShot             | 1882          | 19 41 07.59 | +19 00 15.4 | /           | /           | /           | /           |
| 964 | G55.44-1.86                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 19 41 07.59 | +19 00 15.4 | /           | /           | /           | /           |
| 965 | G57.30-1.86                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(2k)   | SnapShot             | 1882          | 19 45 02.99 | +20 37 00.4 | /           | /           | /           | /           |
| 966 | G57.30-1.86                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 19 45 02.99 | +20 37 00.4 | /           | /           | /           | /           |
| 967 | G88.99-1.02                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(2k)   | SnapShot             | 1882          | 21 12 18.49 | +46 53 59.3 | /           | /           | /           | /           |
| 968 | G88.99-1.02                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 21 12 18.49 | +46 53 59.3 | /           | /           | /           | /           |
| 969 | G89.29-1.69                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(2k)   | SnapShotCal          | 2061          | 21 16 21.21 | +46 38 36.3 | /           | /           | /           | /           |
| 970 | G89.29-1.69                      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShotCal          | 408           | 21 16 21.21 | +46 38 36.3 | /           | /           | /           | /           |
| 971 | G157.97+1.44                     | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal         | 3940          | 04 45 41.92 | +47 43 21.8 | /           | /           | /           | /           |

| ID   | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 972  | G157.97+1.44      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 04 45 41.92 | +47 43 21.8 | /           | /           | /           | /           |
| 973  | G198.82+1.02      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 28 58.06 | +13 00 25.1 | /           | /           | /           | /           |
| 974  | G198.82+1.02      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 28 58.06 | +13 00 25.1 | /           | /           | /           | /           |
| 975  | G207.38+1.10      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 45 13.19 | +05 26 37.1 | /           | /           | /           | /           |
| 976  | G207.38+1.10      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 45 13.19 | +05 26 37.1 | /           | /           | /           | /           |
| 977  | G208.06+0.59      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 44 39.53 | +04 36 08.4 | /           | /           | /           | /           |
| 978  | G208.06+0.59      | ZD2023_2    | 2024-06-07 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 44 39.53 | +04 36 08.4 | /           | /           | /           | /           |
| 979  | 19C140_J0719-05   | ZD2023_6    | 2024-06-07 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 07 19 22.00 | /           | -05 33 28.0 | /           |
| 980  | 19C119_J0846-1049 | ZD2023_6    | 2024-06-07 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 981  | DEC+300912-a      | N2023_1     | 2024-06-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 08 00 00.00 | +30 09 12.3 | 08 00 00.00 | 10 00 00.00 | +30 09 12.3 | +30 09 12.3 |
| 982  | DEC+070219-a      | N2023_1     | 2024-06-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 00 00.00 | +07 02 19.5 | 11 00 00.00 | 13 00 00.00 | +07 02 19.5 | +07 02 19.5 |
| 983  | NGC5033_down_OTF1 | PT2023_0022 | 2024-06-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 53            | 13 12 00.00 | +36 00 00.0 | 13 08 34.69 | 13 15 25.31 | +35 38 20.4 | +36 20 30.7 |
| 984  | DEC+064039-a      | N2023_1     | 2024-06-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 14 50 00.00 | +06 40 39.3 | 14 50 00.00 | 16 50 00.00 | +06 40 39.3 | +06 40 39.3 |
| 985  | J1804+0101        | PT2023_0027 | 2024-06-08 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 18 04 15.98 | 18 05 15.98 | +01 01 32.4 | +01 01 32.4 |
| 986  | G33.0+0.0_RA      | PT2023_0027 | 2024-06-08 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 1151          | 18 51 33.72 | +00 03 38.1 | 18 47 33.72 | 18 55 33.72 | -00 56 21.9 | +01 03 38.1 |
| 987  | G33.0+2.0         | PT2023_0027 | 2024-06-08 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 18 44 26.52 | +00 58 20.5 | /           | /           | /           | /           |
| 988  | 19C46_J1813-0852  | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 13 35.06 | /           | -08 52 18.8 | /           |
| 989  | 19C113_J1846-0512 | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 46 05.00 | /           | -05 12 18.0 | /           |
| 990  | C52_J1929+4104    | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 991  | C25_J2129+4119    | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 21 29 21.46 | /           | +41 19 55.0 | /           |
| 992  | G56.61+1.86       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 29 39.54 | +21 50 35.5 | /           | /           | /           | /           |
| 993  | G56.61+1.86       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 29 39.54 | +21 50 35.5 | /           | /           | /           | /           |
| 994  | G57.74+1.95       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 31 40.21 | +22 52 13.9 | /           | /           | /           | /           |
| 995  | G57.74+1.95       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 31 40.21 | +22 52 13.9 | /           | /           | /           | /           |
| 996  | G59.55+1.53       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 37 06.73 | +24 14 52.2 | /           | /           | /           | /           |
| 997  | G59.55+1.53       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 37 06.73 | +24 14 52.2 | /           | /           | /           | /           |
| 998  | G61.75+1.27       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 42 52.72 | +26 02 16.5 | /           | /           | /           | /           |
| 999  | G61.75+1.27       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 42 52.72 | +26 02 16.5 | /           | /           | /           | /           |
| 1000 | G87.33+0.68       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 20 58 25.95 | +46 48 03.0 | /           | /           | /           | /           |
| 1001 | G87.33+0.68       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 58 25.95 | +46 48 03.0 | /           | /           | /           | /           |
| 1002 | G86.69-1.61       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 21 05 51.03 | +44 48 32.8 | /           | /           | /           | /           |
| 1003 | G86.69-1.61       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 05 51.03 | +44 48 32.8 | /           | /           | /           | /           |
| 1004 | C41_J2358+4237    | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 1431          | /           | /           | 23 58 45.00 | /           | +42 37 39.0 | /           |
| 1005 | G169.86-1.86      | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 05 11 30.53 | +36 20 38.6 | /           | /           | /           | /           |
| 1006 | G169.86-1.86      | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 11 30.53 | +36 20 38.6 | /           | /           | /           | /           |
| 1007 | J0520+3722g       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 1008 | J0520+3722g       | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 1009 | G170.99+1.44      | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 05 28 16.06 | +37 18 48.9 | /           | /           | /           | /           |
| 1010 | G170.99+1.44      | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 28 16.06 | +37 18 48.9 | /           | /           | /           | /           |
| 1011 | G205.62-1.27      | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 06 33 29.98 | +05 55 15.5 | /           | /           | /           | /           |
| 1012 | G205.62-1.27      | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 33 29.98 | +05 55 15.5 | /           | /           | /           | /           |
| 1013 | J064133+044835    | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 06 41 33.30 | /           | +04 48 35.0 | /           |
| 1014 | J064133+044835    | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 06 41 33.30 | /           | +04 48 35.0 | /           |
| 1015 | G205.91+1.27      | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 06 43 07.91 | +06 49 35.0 | /           | /           | /           | /           |
| 1016 | G205.91+1.27      | ZD2023_2    | 2024-06-08 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 43 07.91 | +06 49 35.0 | /           | /           | /           | /           |
| 1017 | 19C120_J0640-0139 | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 06 40 47.00 | /           | -01 39 23.0 | /           |
| 1018 | 19C140_J0719-05   | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 07 19 22.00 | /           | -05 33 28.0 | /           |
| 1019 | 19C141_J0606+29   | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 06 06 37.00 | /           | +29 25 13.0 | /           |
| 1020 | 19C110_J0745-04   | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 07 46 52.00 | /           | -04 11 09.0 | /           |
| 1021 | J0925+6103        | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 09 25 17.50 | /           | +61 03 04.1 | /           |
| 1022 | J0952-06          | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 09 52 08.32 | /           | -06 07 23.5 | /           |
| 1023 | 19C136_J1048+53   | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 1024 | 19C23_J1142+3253  | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 11 42 06.00 | /           | +32 53 02.0 | /           |
| 1025 | 19C33_J1115-0958  | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 11 15 29.00 | /           | -09 48 06.0 | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-----------|-------------|------------|
| 1026 | 19C84_J1239+0326                 | ZD2023_6    | 2024-06-08 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 12 39 38.76 | /         | +03 26 10.9 | /          |
| 1027 | 19C24_J1437+3055                 | ZD2023_6    | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 14 37 39.00 | /         | +30 55 07.0 | /          |
| 1028 | C46_J1502+46                     | ZD2023_6    | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 15 02 19.83 | /         | +46 53 27.4 | /          |
| 1029 | 19C27_J1759-12                   | ZD2023_6    | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 17 59 56.30 | /         | -12 47 52.1 | /          |
| 1030 | G40.08+3.56                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 18 51 45.24 | +07 58 38.8 | /           | /         | /           | /          |
| 1031 | G40.08+3.56                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 18 51 45.24 | +07 58 38.8 | /           | /         | /           | /          |
| 1032 | B1913+16                         | PT2023_0035 | 2024-06-09 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 377           | /           | /           | 19 15 28.00 | /         | +16 06 27.4 | /          |
| 1033 | FRB20240114A                     | PT2023_0073 | 2024-06-09 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 27 39.84 | +04 19 46.3 | /           | /         | /           | /          |
| 1034 | G54.65-2.20                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 40 44.54 | +18 09 24.2 | /           | /         | /           | /          |
| 1035 | G54.65-2.20                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 40 44.54 | +18 09 24.2 | /           | /         | /           | /          |
| 1036 | G57.25-2.29                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 46 30.68 | +20 21 44.5 | /           | /         | /           | /          |
| 1037 | G57.25-2.29                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 46 30.68 | +20 21 44.5 | /           | /         | /           | /          |
| 1038 | G89.92+0.59                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 09 04.94 | +48 40 40.6 | /           | /         | /           | /          |
| 1039 | G89.92+0.59                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 09 04.94 | +48 40 40.6 | /           | /         | /           | /          |
| 1040 | G88.60-1.19                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 11 27.83 | +46 29 55.6 | /           | /         | /           | /          |
| 1041 | G88.60-1.19                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 11 27.83 | +46 29 55.6 | /           | /         | /           | /          |
| 1042 | G88.31-3.73                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1166          | 21 20 44.15 | +44 31 17.8 | /           | /         | /           | /          |
| 1043 | G88.31-3.73                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 231           | 21 20 44.15 | +44 31 17.8 | /           | /         | /           | /          |
| 1044 | G89.92-5.85                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 1345          | 21 35 25.46 | +44 06 26.0 | /           | /         | /           | /          |
| 1045 | G89.92-5.85                      | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 266           | 21 35 25.46 | +44 06 26.0 | /           | /         | /           | /          |
| 1046 | FRB20220529                      | ZD2023_5    | 2024-06-09 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 01 16 25.01 | +20 37 57.0 | /           | /         | /           | /          |
| 1047 | G166.53+1.53                     | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 15 35.31 | +41 01 31.1 | /           | /         | /           | /          |
| 1048 | G166.53+1.53                     | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 15 35.31 | +41 01 31.1 | /           | /         | /           | /          |
| 1049 | G183.61+1.27                     | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 58 51.75 | +26 28 52.8 | /           | /         | /           | /          |
| 1050 | G183.61+1.27                     | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 58 51.75 | +26 28 52.8 | /           | /         | /           | /          |
| 1051 | G183.70-1.10                     | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 49 59.23 | +25 11 48.5 | /           | /         | /           | /          |
| 1052 | G183.70-1.10                     | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 49 59.23 | +25 11 48.5 | /           | /         | /           | /          |
| 1053 | G184.34+1.19                     | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 00 09.68 | +25 48 10.3 | /           | /         | /           | /          |
| 1054 | G184.34+1.19                     | ZD2023_2    | 2024-06-09 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 00 09.68 | +25 48 10.3 | /           | /         | /           | /          |
| 1055 | DEC-095609-7                     | N2023_1     | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 638           | 11 23 00.00 | -09 56 09.9 | /           | /         | /           | /          |
| 1056 | DEC-095609-7                     | N2023_1     | 2024-06-09 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 127           | 11 23 00.00 | -09 56 09.9 | /           | /         | /           | /          |
| 1057 | Dec+1354_09_05(1ibt&1bit1k&2bit) | ZD2023_1_1  | 2024-06-09 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00 | +13 54 03.3 | /           | /         | /           | /          |
| 1058 | Dec+1354_09_05                   | ZD2023_1_2  | 2024-06-09 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00 | +13 54 03.3 | /           | /         | /           | /          |
| 1059 | 19C122_J1404+0907                | ZD2023_6    | 2024-06-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 14 04 36.00 | /         | +09 07 22.0 | /          |
| 1060 | G30.98+8.47                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 17 43.02 | +02 07 49.3 | /           | /         | /           | /          |
| 1061 | G30.98+8.47                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 17 43.02 | +02 07 49.3 | /           | /         | /           | /          |
| 1062 | G28.24+7.29                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 16 57.22 | -00 49 29.4 | /           | /         | /           | /          |
| 1063 | G28.24+7.29                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 16 57.22 | -00 49 29.4 | /           | /         | /           | /          |
| 1064 | G32.49+5.51                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 31 01.68 | +02 07 13.7 | /           | /         | /           | /          |
| 1065 | G32.49+5.51                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 31 01.68 | +02 07 13.7 | /           | /         | /           | /          |
| 1066 | FRB240114A                       | PT2023_0077 | 2024-06-10 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 21 27 39.84 | +04 19 46.3 | /           | /         | /           | /          |
| 1067 | G55.83+1.53                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 29 19.77 | +20 59 38.7 | /           | /         | /           | /          |
| 1068 | G55.83+1.53                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 29 19.77 | +20 59 38.7 | /           | /         | /           | /          |
| 1069 | G78.18-1.27                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 20 35 29.70 | +38 26 51.1 | /           | /         | /           | /          |
| 1070 | G78.18-1.27                      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 20 35 29.70 | +38 26 51.1 | /           | /         | /           | /          |
| 1071 | 19C147_J0104                     | ZD2023_6    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 04 41.90 | /         | +60 29 47.1 | /          |
| 1072 | 19C154_O139+61                   | ZD2023_6    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 39 58.41 | /         | +61 59 29.8 | /          |
| 1073 | C10_J0209+2621                   | ZD2023_6    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 09 00.00 | /         | +26 21 22.0 | /          |
| 1074 | 19C137_J0244+32                  | ZD2023_6    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 02 44 46.00 | /         | +32 18 28.0 | /          |
| 1075 | J0534+2200                       | PT2023_0126 | 2024-06-10 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 396           | /           | /           | 05 34 31.97 | /         | +22 00 52.1 | /          |
| 1076 | G156.11-1.78                     | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 24 16.95 | +46 54 54.1 | /           | /         | /           | /          |
| 1077 | G156.11-1.78                     | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 24 16.95 | +46 54 54.1 | /           | /         | /           | /          |
| 1078 | G156.11+1.44                     | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 04 38 18.94 | +49 07 12.9 | /           | /         | /           | /          |
| 1079 | G156.11+1.44                     | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 04 38 18.94 | +49 07 12.9 | /           | /         | /           | /          |

| ID   | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1080 | G158.71+1.36      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 48 07.49 | +47 06 31.9 | /           | /           | /           | /           |
| 1081 | G158.71+1.36      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 48 07.49 | +47 06 31.9 | /           | /           | /           | /           |
| 1082 | G210.56-0.34      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 45 54.03 | +01 57 26.3 | /           | /           | /           | /           |
| 1083 | G210.56-0.34      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 45 54.03 | +01 57 26.3 | /           | /           | /           | /           |
| 1084 | G204.84+1.61      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 42 21.98 | +07 56 17.7 | /           | /           | /           | /           |
| 1085 | G204.84+1.61      | ZD2023_2    | 2024-06-10 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 42 21.98 | +07 56 17.7 | /           | /           | /           | /           |
| 1086 | 19C119_J0846-1049 | ZD2023_6    | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 1087 | DEC-091249-6      | N2023_1     | 2024-06-10 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1176          | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1088 | DEC-091249-6      | N2023_1     | 2024-06-10 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 233           | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1089 | J1741+1351        | PT2023_0001 | 2024-06-11 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 41 31.14 | +13 51 44.1 | /           | /           | /           | /           |
| 1090 | G30.59+8.30       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 17 36.82 | +01 42 30.8 | /           | /           | /           | /           |
| 1091 | G30.59+8.30       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 17 36.82 | +01 42 30.8 | /           | /           | /           | /           |
| 1092 | G29.36+7.37       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 18 42.49 | +00 12 17.1 | /           | /           | /           | /           |
| 1093 | G29.36+7.37       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 18 42.49 | +00 12 17.1 | /           | /           | /           | /           |
| 1094 | B1913+16          | PT2023_0035 | 2024-06-11 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 377           | /           | /           | 19 15 28.00 | /           | +16 06 27.4 | /           |
| 1095 | FRB240114A        | PT2023_0077 | 2024-06-11 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 1096 | G56.56+1.44       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 31 09.52 | +21 35 49.7 | /           | /           | /           | /           |
| 1097 | G56.56+1.44       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 31 09.52 | +21 35 49.7 | /           | /           | /           | /           |
| 1098 | G56.95+1.61       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 31 19.71 | +22 01 17.9 | /           | /           | /           | /           |
| 1099 | G56.95+1.61       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 31 19.71 | +22 01 17.9 | /           | /           | /           | /           |
| 1100 | G75.10+1.02       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 20 16 59.98 | +37 15 44.4 | /           | /           | /           | /           |
| 1101 | G75.10+1.02       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 16 59.98 | +37 15 44.4 | /           | /           | /           | /           |
| 1102 | G75.25-0.93       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 20 25 25.26 | +36 16 29.6 | /           | /           | /           | /           |
| 1103 | G75.25-0.93       | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 25 25.26 | +36 16 29.6 | /           | /           | /           | /           |
| 1104 | 19C149_J2114+2631 | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 21 14 21.95 | /           | +26 31 23.9 | /           |
| 1105 | 19C68_J2319+2048  | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 23 19 34.00 | /           | +20 48 01.0 | /           |
| 1106 | 19C89_J2329+2653  | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 23 29 51.00 | /           | +26 53 59.0 | /           |
| 1107 | J2355+1523        | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 1878          | /           | /           | 23 55 48.62 | /           | +15 23 19.0 | /           |
| 1108 | 19C151_J0001+6252 | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 00 01 10.00 | /           | +62 52 41.0 | /           |
| 1109 | J0023+0923        | PT2023_0001 | 2024-06-11 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 00 23 16.87 | +09 23 23.8 | /           | /           | /           | /           |
| 1110 | 19C142_J0059+32   | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 00 59 28.00 | /           | +32 31 47.0 | /           |
| 1111 | 19C147_J0104      | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 04 42.90 | /           | +60 29 21.1 | /           |
| 1112 | 19C150_J0115+6150 | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 15 07.50 | /           | +61 50 00.1 | /           |
| 1113 | 19C154_J0139+61   | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 1114 | 19C148_J0146+60   | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 46 40.70 | /           | +60 20 55.2 | /           |
| 1115 | G153.13-1.86      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 11 10.29 | +48 56 06.4 | /           | /           | /           | /           |
| 1116 | G153.13-1.86      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 11 10.29 | +48 56 06.4 | /           | /           | /           | /           |
| 1117 | G156.90+1.78      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 04 43 01.03 | +48 45 30.4 | /           | /           | /           | /           |
| 1118 | G156.90+1.78      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 04 43 01.03 | +48 45 30.4 | /           | /           | /           | /           |
| 1119 | G156.85+1.36      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 40 53.63 | +48 30 57.5 | /           | /           | /           | /           |
| 1120 | G156.85+1.36      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 40 53.63 | +48 30 57.5 | /           | /           | /           | /           |
| 1121 | G209.78-0.68      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 43 15.77 | +02 29 55.6 | /           | /           | /           | /           |
| 1122 | G209.78-0.68      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 43 15.77 | +02 29 55.6 | /           | /           | /           | /           |
| 1123 | G208.11+1.02      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 46 15.67 | +04 45 07.7 | /           | /           | /           | /           |
| 1124 | G208.11+1.02      | ZD2023_2    | 2024-06-11 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 46 15.67 | +04 45 07.7 | /           | /           | /           | /           |
| 1125 | 19C121_J0623+00   | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 06 23 49.00 | /           | +00 51 54.0 | /           |
| 1126 | 19C140_J0719-05   | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 07 19 22.00 | /           | -05 33 28.0 | /           |
| 1127 | 19C119_J0846-1049 | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 1128 | DEC-112250-8      | N2023_1     | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1131          | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 1129 | DEC-112250-8      | N2023_1     | 2024-06-11 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 224           | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 1130 | 19C33_J1115-0958  | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 11 15 29.00 | /           | -09 48 06.0 | /           |
| 1131 | DEC+074539-b      | N2023_1     | 2024-06-11 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 00 00.00 | +07 45 39.9 | 12 00 00.00 | 14 00 00.00 | +07 45 39.9 | +07 45 39.9 |
| 1132 | 19C122_J1404+0907 | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 14 04 36.00 | /           | +09 07 22.0 | /           |
| 1133 | 19C24_J1437+3055  | ZD2023_6    | 2024-06-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 14 37 39.00 | /           | +30 55 07.0 | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1134 | J1855-0756                       | PT2023_0110 | 2024-06-12 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 1135 | PSR_J1915+1606                   | PT2023_0159 | 2024-06-12 | 19波束接收机  | beam1    | psr(8k)   | SwiftCalibration  | 2338          | /           | /           | 19 15 28.00 | /           | +16 06 27.4 | /           |
| 1136 | 1922+155                         | PT2023_0159 | 2024-06-12 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 38            | 19 22 34.69 | +15 30 10.0 | /           | /           | /           | /           |
| 1137 | ctb87_35                         | PT2023_0008 | 2024-06-12 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 20 16 09.20 | +37 11 10.5 | /           | /           | /           | /           |
| 1138 | J2238-1221                       | PT2023_0204 | 2024-06-12 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 22 38 44.13 | -12 21 31.1 | /           | /           | /           | /           |
| 1139 | DEC+103901-a                     | N2023_1     | 2024-06-12 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 144           | 00 00 00.00 | +10 39 01.5 | 00 00 00.00 | 01 05 00.00 | +10 39 01.5 | +10 39 01.5 |
| 1140 | DEC+353415-a                     | N2023_1     | 2024-06-12 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 133           | 00 30 00.00 | +35 34 15.3 | 00 30 00.00 | 01 30 00.00 | +35 34 15.3 | +35 34 15.3 |
| 1141 | C10_J0209+2621                   | ZD2023_6    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 09 00.00 | /           | +26 21 22.0 | /           |
| 1142 | 19C138_J0210+32                  | ZD2023_6    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 10 09.00 | /           | +32 11 23.0 | /           |
| 1143 | 19C139_J0226+33                  | ZD2023_6    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 26 56.29 | /           | +33 56 08.9 | /           |
| 1144 | 19C137_J0244+32                  | ZD2023_6    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 44 46.00 | /           | +32 18 28.0 | /           |
| 1145 | 19C114_J0446+24                  | ZD2023_6    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 1146 | G162.42-1.86                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 47 46.76 | +42 11 29.9 | /           | /           | /           | /           |
| 1147 | G162.42-1.86                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 47 46.76 | +42 11 29.9 | /           | /           | /           | /           |
| 1148 | G163.94+1.61                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 07 42.63 | +43 10 02.8 | /           | /           | /           | /           |
| 1149 | G163.94+1.61                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 07 42.63 | +43 10 02.8 | /           | /           | /           | /           |
| 1150 | G164.33+1.78                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 09 43.97 | +42 57 16.9 | /           | /           | /           | /           |
| 1151 | G164.33+1.78                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 09 43.97 | +42 57 16.9 | /           | /           | /           | /           |
| 1152 | G209.97+1.02                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 49 39.52 | +03 05 52.9 | /           | /           | /           | /           |
| 1153 | G209.97+1.02                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 49 39.52 | +03 05 52.9 | /           | /           | /           | /           |
| 1154 | G207.33+0.68                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 43 36.95 | +05 17 37.4 | /           | /           | /           | /           |
| 1155 | G207.33+0.68                     | ZD2023_2    | 2024-06-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 43 36.95 | +05 17 37.4 | /           | /           | /           | /           |
| 1156 | FRB121102                        | PT2023_0073 | 2024-06-12 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 1157 | Dec+1332_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-06-12 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00 | +13 32 23.1 | /           | /           | /           | /           |
| 1158 | Dec+1332_09_05                   | ZD2023_1_2  | 2024-06-12 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00 | +13 32 23.1 | /           | /           | /           | /           |
| 1159 | DEC-091249-7                     | N2023_1     | 2024-06-12 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1153          | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1160 | DEC-091249-7                     | N2023_1     | 2024-06-12 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 228           | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1161 | J1713+0747                       | PT2023_0096 | 2024-06-12 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 13 49.53 | +07 47 37.5 | /           | /           | /           | /           |
| 1162 | J1946+3417                       | PT2023_0015 | 2024-06-13 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 565           | /           | /           | 19 46 25.10 | /           | +34 17 14.6 | /           |
| 1163 | B1913+16                         | PT2023_0035 | 2024-06-13 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 377           | /           | /           | 19 15 28.00 | /           | +16 06 27.4 | /           |
| 1164 | G41.20-2.80                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 16 35.52 | +06 03 46.0 | /           | /           | /           | /           |
| 1165 | G41.20-2.80                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 16 35.52 | +06 03 46.0 | /           | /           | /           | /           |
| 1166 | G39.69-3.05                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 14 40.67 | +04 36 10.5 | /           | /           | /           | /           |
| 1167 | G39.69-3.05                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 14 40.67 | +04 36 10.5 | /           | /           | /           | /           |
| 1168 | FRB240114A                       | PT2023_0077 | 2024-06-13 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 1169 | G55.49+1.78                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 27 40.41 | +20 48 52.7 | /           | /           | /           | /           |
| 1170 | G55.49+1.78                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 27 40.41 | +20 48 52.7 | /           | /           | /           | /           |
| 1171 | G57.69+1.53                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 33 10.67 | +22 37 24.6 | /           | /           | /           | /           |
| 1172 | G57.69+1.53                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 33 10.67 | +22 37 24.6 | /           | /           | /           | /           |
| 1173 | G90.66+0.51                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 12 30.54 | +49 09 21.8 | /           | /           | /           | /           |
| 1174 | G90.66+0.51                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 12 30.54 | +49 09 21.8 | /           | /           | /           | /           |
| 1175 | G88.80+0.51                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 04 54.31 | +47 47 22.6 | /           | /           | /           | /           |
| 1176 | G88.80+0.51                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 04 54.31 | +47 47 22.6 | /           | /           | /           | /           |
| 1177 | G87.82-1.53                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 21 09 48.78 | +45 41 43.9 | /           | /           | /           | /           |
| 1178 | G87.82-1.53                      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 09 48.78 | +45 41 43.9 | /           | /           | /           | /           |
| 1179 | DEC+091220-b                     | N2023_1     | 2024-06-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 144           | 00 00 00.00 | +09 12 20.7 | 00 00 00.00 | 01 05 00.00 | +09 12 20.7 | +09 12 20.7 |
| 1180 | DEC-093429-6                     | N2023_1     | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 728           | 11 23 00.00 | -09 34 29.7 | /           | /           | /           | /           |
| 1181 | DEC-093429-6                     | N2023_1     | 2024-06-13 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 144           | 11 23 00.00 | -09 34 29.7 | /           | /           | /           | /           |
| 1182 | J0447+2447                       | ZD2023_6    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 1183 | G164.28-1.86                     | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 54 06.35 | +40 45 38.5 | /           | /           | /           | /           |
| 1184 | G164.28-1.86                     | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 54 06.35 | +40 45 38.5 | /           | /           | /           | /           |
| 1185 | G167.66+1.61                     | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 19 22.38 | +40 09 21.1 | /           | /           | /           | /           |
| 1186 | G167.66+1.61                     | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 19 22.38 | +40 09 21.1 | /           | /           | /           | /           |
| 1187 | G168.00+1.36                     | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 19 18.61 | +39 43 46.8 | /           | /           | /           | /           |

| ID   | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode         | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|-------------------|-------------|------------|----------|----------|-----------|------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1188 | G168.00+1.36      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 05 19 18.61 | +39 43 46.8 | /           | /           | /           | /           |
| 1189 | G204.15-1.10      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 06 31 22.69 | +07 18 02.7 | /           | /           | /           | /           |
| 1190 | G204.15-1.10      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 06 31 22.69 | +07 18 02.7 | /           | /           | /           | /           |
| 1191 | G204.44+1.44      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal     | 3940          | 06 41 02.11 | +08 12 31.6 | /           | /           | /           | /           |
| 1192 | G204.44+1.44      | ZD2023_2    | 2024-06-13 | 19波束接收机  | all      | spec(F)   | SnapShotZCal     | 1558          | 06 41 02.11 | +08 12 31.6 | /           | /           | /           | /           |
| 1193 | 19C121_J0623+00   | ZD2023_6    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 06 23 49.00 | /           | +00 51 54.0 | /           |
| 1194 | C69_J0631+4147    | ZD2023_6    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 06 32 05.66 | /           | +41 47 35.6 | /           |
| 1195 | C34_J0752-0820    | ZD2023_6    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 07 52 50.00 | /           | -08 20 37.5 | /           |
| 1196 | 19C130_J0756-05   | ZD2023_6    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 07 56 15.00 | /           | -05 17 13.0 | /           |
| 1197 | 19C119_J0846-1049 | ZD2023_6    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 1198 | 19C136_J1048+53   | ZD2023_6    | 2024-06-13 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 1199 | DEC+074539-a      | N2023_1     | 2024-06-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF     | 266           | 11 00 00.00 | +07 45 39.9 | 11 00 00.00 | 13 00 00.00 | +07 45 39.9 | +07 45 39.9 |
| 1200 | B1913+16          | PT2023_0035 | 2024-06-14 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration | 377           | /           | /           | 19 15 28.00 | /           | +16 06 27.4 | /           |
| 1201 | C41_2359+4238     | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 985           | /           | /           | 23 59 19.10 | /           | +42 38 55.2 | /           |
| 1202 | 19C147_J0104      | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 01 04 42.90 | /           | +60 29 21.1 | /           |
| 1203 | 19C148_J0146+60   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 01 46 40.70 | /           | +60 20 55.2 | /           |
| 1204 | C10_J0209+2621    | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 02 09 00.00 | /           | +26 21 22.0 | /           |
| 1205 | 19C138_J0210+32   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 02 10 09.00 | /           | +32 11 23.0 | /           |
| 1206 | 19C152_J0231+62   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 02 31 52.79 | /           | +62 54 29.9 | /           |
| 1207 | 19C163_J0333+25G1 | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | OnOff            | 761           | /           | /           | 03 33 02.00 | 03 32 56.00 | +25 37 06.0 | +25 39 42.0 |
| 1208 | 19C163_J0333+25G2 | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | OnOff            | 761           | /           | /           | 03 33 08.00 | 03 33 14.00 | +25 39 42.0 | +25 37 06.0 |
| 1209 | PSR_J0344-0901    | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 03 44 37.47 | /           | -09 01 02.7 | /           |
| 1210 | J0447+2447        | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 1211 | G158.71-1.86      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SnapShotCal      | 1031          | 04 34 12.35 | +44 58 44.8 | /           | /           | /           | /           |
| 1212 | G158.71-1.86      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 04 34 12.35 | +44 58 44.8 | /           | /           | /           | /           |
| 1213 | G158.36+1.61      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 04 47 58.12 | +47 32 03.8 | /           | /           | /           | /           |
| 1214 | G158.36+1.61      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 04 47 58.12 | +47 32 03.8 | /           | /           | /           | /           |
| 1215 | G158.76+1.78      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 04 50 13.35 | +47 20 36.2 | /           | /           | /           | /           |
| 1216 | G158.76+1.78      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 04 50 13.35 | +47 20 36.2 | /           | /           | /           | /           |
| 1217 | G160.22+1.61      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 04 54 53.13 | +46 06 06.0 | /           | /           | /           | /           |
| 1218 | G160.22+1.61      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 04 54 53.13 | +46 06 06.0 | /           | /           | /           | /           |
| 1219 | G160.61+1.78      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 04 57 03.40 | +45 54 10.0 | /           | /           | /           | /           |
| 1220 | G160.61+1.78      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 04 57 03.40 | +45 54 10.0 | /           | /           | /           | /           |
| 1221 | G161.01+1.95      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 04 59 12.74 | +45 42 05.1 | /           | /           | /           | /           |
| 1222 | G161.01+1.95      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 04 59 12.74 | +45 42 05.1 | /           | /           | /           | /           |
| 1223 | G210.66+0.51      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal     | 3940          | 06 49 05.82 | +02 15 24.4 | /           | /           | /           | /           |
| 1224 | G210.66+0.51      | ZD2023_2    | 2024-06-14 | 19波束接收机  | all      | spec(F)   | SnapShotZCal     | 1558          | 06 49 05.82 | +02 15 24.4 | /           | /           | /           | /           |
| 1225 | 19C121_J0623+00   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 06 23 49.00 | /           | +00 51 54.0 | /           |
| 1226 | 19C141_J0606+29   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 06 06 37.00 | /           | +29 25 13.0 | /           |
| 1227 | 19C140_J0719-05   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 07 19 22.00 | /           | -05 33 28.0 | /           |
| 1228 | 19C124_J0505+27   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 07 05 44.00 | /           | +27 02 08.0 | /           |
| 1229 | 19C110_J0745-04   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 07 46 52.00 | /           | -04 11 09.0 | /           |
| 1230 | 19C130_J0756-05   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 07 56 15.00 | /           | -05 17 13.0 | /           |
| 1231 | 19C119_J0846-1049 | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 1232 | J0925+6103        | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 09 25 17.50 | /           | +61 03 04.1 | /           |
| 1233 | C45_J0941+5452    | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 09 41 54.00 | /           | +45 42 40.0 | /           |
| 1234 | J0952-06          | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 09 52 08.32 | /           | -06 07 23.5 | /           |
| 1235 | 19C136_J1048+53   | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 1236 | 19C33_J1115-0958  | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 11 15 29.00 | /           | -09 48 06.0 | /           |
| 1237 | 19C23_J1142+3253  | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 11 42 06.00 | /           | +32 53 02.0 | /           |
| 1238 | C61_J1408+4944    | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 14 08 36.56 | /           | +49 44 50.2 | /           |
| 1239 | 19C122_J1404+0907 | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 14 04 36.00 | /           | +09 07 22.0 | /           |
| 1240 | 19C24_J1437+3055  | ZD2023_6    | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 14 37 39.00 | /           | +30 55 07.0 | /           |
| 1241 | DEC+091220-a      | N2023_1     | 2024-06-14 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF     | 266           | 12 30 00.00 | +09 12 20.7 | 12 30 00.00 | 14 30 00.00 | +09 12 20.7 | +09 12 20.7 |

| ID   | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1242 | DEC+602929-13     | N2023_1     | 2024-06-14 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1220          | 11 23 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 1243 | DEC+602929-13     | N2023_1     | 2024-06-14 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 242           | 11 23 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 1244 | C52_J1929+4104    | ZD2023_6    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 1245 | 19C46_J1813-0852  | ZD2023_6    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 13 35.06 | /           | -08 52 18.8 | /           |
| 1246 | J190322+172805    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 19 03 22.40 | /           | +17 28 05.0 | /           |
| 1247 | J190322+172805    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 19 03 22.40 | /           | +17 28 05.0 | /           |
| 1248 | J182717+0111346   | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 18 27 17.90 | +01 13 46.0 | /           | /           | /           | /           |
| 1249 | J182717+0111346   | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 18 27 17.90 | +01 13 46.0 | /           | /           | /           | /           |
| 1250 | J183414+024846    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 18 34 14.60 | +02 48 46.0 | /           | /           | /           | /           |
| 1251 | J183414+024846    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 18 34 14.60 | +02 48 46.0 | /           | /           | /           | /           |
| 1252 | J185227-004419    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(2k)   | Tracking          | 5364          | 18 52 27.40 | -00 44 19.0 | /           | /           | /           | /           |
| 1253 | J185227-004419    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | Tracking          | 532           | 18 52 27.40 | -00 44 19.0 | /           | /           | /           | /           |
| 1254 | J185037+043148    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 18 50 37.30 | +04 31 48.0 | /           | /           | /           | /           |
| 1255 | J185037+043148    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 18 50 37.30 | +04 31 48.0 | /           | /           | /           | /           |
| 1256 | J191628+094959    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 16 28.60 | +09 49 59.0 | /           | /           | /           | /           |
| 1257 | J191628+094959    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 16 28.60 | +09 49 59.0 | /           | /           | /           | /           |
| 1258 | J192500+153232    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 19 25 00.30 | /           | +15 32 32.0 | /           |
| 1259 | J192500+153232    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 19 25 00.30 | /           | +15 32 32.0 | /           |
| 1260 | J193339+231539    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(2k)   | Tracking          | 5364          | 19 33 39.30 | +23 15 39.0 | /           | /           | /           | /           |
| 1261 | J193339+231539    | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | Tracking          | 532           | 19 33 39.30 | +23 15 39.0 | /           | /           | /           | /           |
| 1262 | J1954+2529        | PT2023_0138 | 2024-06-15 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 1129          | /           | /           | 19 54 19.71 | /           | +25 29 27.3 | /           |
| 1263 | DEC-103930-8      | N2023_1     | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1578          | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 1264 | DEC-103930-8      | N2023_1     | 2024-06-15 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 312           | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 1265 | PSR_J0344-0901    | ZD2023_6    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 03 44 37.47 | /           | -09 01 02.7 | /           |
| 1266 | 19C114_J0446+24   | ZD2023_6    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 1267 | G153.86-1.95      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 14 03.29 | +48 22 15.5 | /           | /           | /           | /           |
| 1268 | G153.86-1.95      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 14 03.29 | +48 22 15.5 | /           | /           | /           | /           |
| 1269 | G154.99+1.36      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 33 15.65 | +49 53 38.9 | /           | /           | /           | /           |
| 1270 | G154.99+1.36      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 33 15.65 | +49 53 38.9 | /           | /           | /           | /           |
| 1271 | G152.79+1.61      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 24 49.21 | +51 39 45.3 | /           | /           | /           | /           |
| 1272 | G152.79+1.61      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 24 49.21 | +51 39 45.3 | /           | /           | /           | /           |
| 1273 | G155.04+1.78      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 35 24.43 | +50 08 42.3 | /           | /           | /           | /           |
| 1274 | G155.04+1.78      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 35 24.43 | +50 08 42.3 | /           | /           | /           | /           |
| 1275 | G157.29+1.95      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 45 20.55 | +48 34 23.8 | /           | /           | /           | /           |
| 1276 | G157.29+1.95      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 45 20.55 | +48 34 23.8 | /           | /           | /           | /           |
| 1277 | G158.02+1.86      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 47 48.65 | +47 57 35.6 | /           | /           | /           | /           |
| 1278 | G158.02+1.86      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 47 48.65 | +47 57 35.6 | /           | /           | /           | /           |
| 1279 | G211.34+0.00      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 48 32.18 | +01 24 55.8 | /           | /           | /           | /           |
| 1280 | G211.34+0.00      | ZD2023_2    | 2024-06-15 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 48 32.18 | +01 24 55.8 | /           | /           | /           | /           |
| 1281 | 19C121_J0623+00   | ZD2023_6    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 06 23 49.00 | /           | +00 51 54.0 | /           |
| 1282 | J0736+1801        | PT2023_0028 | 2024-06-15 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 07 36 13.34 | +18 01 03.2 | /           | /           | /           | /           |
| 1283 | J0812+0755        | PT2023_0028 | 2024-06-15 | 19波束接收机  | beam1    | psr(1k)   | Tracking          | 36            | 08 12 20.55 | +07 55 06.1 | /           | /           | /           | /           |
| 1284 | 19C166_J0848-11G1 | ZD2023_6    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | OnOff             | 404           | /           | /           | 08 48 49.65 | 08 48 43.65 | -11 51 56.8 | -11 49 20.8 |
| 1285 | 19C166_J0848-11G2 | ZD2023_6    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | OnOff             | 404           | /           | /           | 08 48 55.65 | 08 49 01.65 | -11 49 20.8 | -11 51 56.8 |
| 1286 | 19C136_J1048+53   | ZD2023_6    | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 1287 | DEC+051358-c      | N2023_1     | 2024-06-15 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 10 00 00.00 | +05 13 58.5 | 10 00 00.00 | 12 00 00.00 | +05 13 58.5 | +05 13 58.5 |
| 1288 | DEC-101750-8      | N2023_1     | 2024-06-15 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1545          | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 1289 | DEC-101750-8      | N2023_1     | 2024-06-15 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 306           | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 1290 | C52_J1929+4104    | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 1291 | J1804+0101        | PT2023_0027 | 2024-06-16 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 18 04 15.98 | 18 05 15.98 | +01 01 32.4 | +01 01 32.4 |
| 1292 | G33.0+0.0_DE      | PT2023_0027 | 2024-06-16 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 949           | 18 51 33.72 | +00 03 38.1 | 18 48 33.72 | 18 54 33.72 | -01 11 21.9 | +01 18 38.1 |
| 1293 | G33.0+2.0         | PT2023_0027 | 2024-06-16 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 18 44 26.52 | +00 58 20.5 | /           | /           | /           | /           |
| 1294 | 19C113_J1846-0512 | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 46 05.00 | /           | -05 12 18.0 | /           |
| 1295 | G43.75-3.30       | ZD2023_2    | 2024-06-16 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 23 11.00 | +08 04 18.5 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode         | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1296 | G43.75-3.30                      | ZD2023_2    | 2024-06-16 | 19波束接收机  | all      | spec(F)   | SnapShotZCal     | 1558          | 19 23 11.00 | +08 04 18.5 | /           | /           | /           | /           |
| 1297 | G64.34+1.19                      | ZD2023_2    | 2024-06-16 | 19波束接收机  | all      | psr(2k)   | SnapShot         | 1882          | 19 49 03.15 | +28 14 16.0 | /           | /           | /           | /           |
| 1298 | G64.34+1.19                      | ZD2023_2    | 2024-06-16 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 19 49 03.15 | +28 14 16.0 | /           | /           | /           | /           |
| 1299 | G64.73+1.36                      | ZD2023_2    | 2024-06-16 | 19波束接收机  | all      | psr(2k)   | SnapShotCal      | 2061          | 19 49 17.39 | +28 39 39.4 | /           | /           | /           | /           |
| 1300 | G64.73+1.36                      | ZD2023_2    | 2024-06-16 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 19 49 17.39 | +28 39 39.4 | /           | /           | /           | /           |
| 1301 | FRB20240114A                     | PT2023_0073 | 2024-06-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking         | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 1302 | rg1_12_RA230000_Dec293000        | PT2023_0004 | 2024-06-16 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF     | 183           | 23 00 00.00 | +29 30 00.0 | 23 00 00.00 | 21 59 30.00 | +29 30 00.0 | +29 30 00.0 |
| 1303 | PSRJ0002+6216                    | PT2023_0156 | 2024-06-16 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration | 10727         | /           | /           | 00 02 58.23 | /           | +62 16 09.6 | /           |
| 1304 | DEC+133223-b                     | N2023_1     | 2024-06-16 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF     | 266           | 00 25 00.00 | +13 32 23.1 | 00 25 00.00 | 02 25 00.00 | +13 32 23.1 | +13 32 23.1 |
| 1305 | FRB20201124A                     | ZD2023_5    | 2024-06-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking         | 565           | 05 08 03.51 | +26 03 38.5 | /           | /           | /           | /           |
| 1306 | 19C131_J0509-03_1                | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 05 09 22.00 | /           | -03 33 26.0 | /           |
| 1307 | source_4                         | PT2023_0178 | 2024-06-16 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle   | 3934          | 03 52 00.00 | +40 45 00.0 | /           | /           | /           | /           |
| 1308 | source_4                         | PT2023_0178 | 2024-06-16 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle   | 488           | 03 52 00.00 | +40 45 00.0 | /           | /           | /           | /           |
| 1309 | 19C164_J0419-12G1                | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | OnOff            | 404           | /           | /           | 04 19 45.88 | 04 19 39.88 | -12 08 55.8 | -12 06 19.8 |
| 1310 | 19C164_J0419-12G2                | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | OnOff            | 404           | /           | /           | 04 19 51.88 | 04 19 57.88 | -12 06 19.8 | -12 08 55.8 |
| 1311 | J0447+2447                       | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 04 47 07.83 | /           | +24 47 50.3 | /           |
| 1312 | 19C131_J0509-03_2                | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 627           | /           | /           | 05 09 22.00 | /           | -03 33 26.0 | /           |
| 1313 | 19C125_J0521+56                  | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 05 22 33.20 | /           | +56 55 55.9 | /           |
| 1314 | 19C107_J0528-0404                | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 05 28 16.00 | /           | -04 04 43.1 | /           |
| 1315 | 19C140_J0719-05                  | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 07 19 22.00 | /           | -05 33 28.0 | /           |
| 1316 | 19C110_J0745-04                  | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 07 46 52.00 | /           | -04 11 09.0 | /           |
| 1317 | 19C130_J0756-05                  | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 07 56 15.00 | /           | -05 17 13.0 | /           |
| 1318 | J0753-0816                       | PT2023_0050 | 2024-06-16 | 19波束接收机  | beam1    | psr(8k)   | Tracking         | 1882          | 07 53 33.00 | -08 19 35.0 | /           | /           | /           | /           |
| 1319 | Dec+1310_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-06-16 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle   | 5787          | 09 00 00.00 | +13 10 42.9 | /           | /           | /           | /           |
| 1320 | Dec+1310_09_05                   | ZD2023_1_2  | 2024-06-16 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle   | 3430          | 09 00 00.00 | +13 10 42.9 | /           | /           | /           | /           |
| 1321 | 19C23_J1142+3253                 | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 11 42 06.00 | /           | +32 53 02.0 | /           |
| 1322 | 19C84_J1239+0326                 | ZD2023_6    | 2024-06-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 12 39 38.76 | /           | +03 26 10.9 | /           |
| 1323 | FRB190520B                       | PT2023_0077 | 2024-06-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking         | 1876          | 16 02 04.27 | -11 17 17.1 | /           | /           | /           | /           |
| 1324 | 19C27_J1759-12                   | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 17 59 56.26 | /           | -12 48 17.1 | /           |
| 1325 | J181837-005104                   | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration | 3101          | /           | /           | 18 18 37.10 | /           | -00 51 04.0 | /           |
| 1326 | J181837-005104                   | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SwiftCalibration | 307           | /           | /           | 18 18 37.10 | /           | -00 51 04.0 | /           |
| 1327 | J184311-031047                   | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(2k)   | Tracking         | 2684          | 18 43 11.78 | -03 10 47.5 | /           | /           | /           | /           |
| 1328 | J184311-031047                   | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | Tracking         | 266           | 18 43 11.78 | -03 10 47.5 | /           | /           | /           | /           |
| 1329 | G34.70-4.41                      | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(2k)   | SnapShotCal      | 2061          | 19 10 20.17 | -00 26 30.9 | /           | /           | /           | /           |
| 1330 | G34.70-4.41                      | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 19 10 20.17 | -00 26 30.9 | /           | /           | /           | /           |
| 1331 | G36.55-4.41                      | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(2k)   | SnapShot         | 1882          | 19 13 43.84 | +01 12 20.6 | /           | /           | /           | /           |
| 1332 | G36.55-4.41                      | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 19 13 43.84 | +01 12 20.6 | /           | /           | /           | /           |
| 1333 | J1909+0137g                      | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(2k)   | Tracking         | 897           | 19 09 14.70 | +01 37 12.0 | /           | /           | /           | /           |
| 1334 | J1909+0137g                      | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | Tracking         | 89            | 19 09 14.70 | +01 37 12.0 | /           | /           | /           | /           |
| 1335 | J1911+0314g                      | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration | 1076          | /           | /           | 19 11 47.20 | /           | +03 14 00.0 | /           |
| 1336 | J1911+0314g                      | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SwiftCalibration | 107           | /           | /           | 19 11 47.20 | /           | +03 14 00.0 | /           |
| 1337 | 19C89_J2329+2653                 | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 23 29 51.00 | /           | +26 53 59.0 | /           |
| 1338 | DEC+091220-c                     | N2023_1     | 2024-06-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF     | 133           | 23 40 00.00 | +09 12 20.7 | 23 40 00.00 | 00 40 00.00 | +09 12 20.7 | +09 12 20.7 |
| 1339 | 19C147_J0104                     | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 01 04 42.90 | /           | +60 29 21.1 | /           |
| 1340 | 19C154_0139+61                   | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 1341 | 19C152_J0231+62                  | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 02 31 52.79 | /           | +62 54 29.9 | /           |
| 1342 | 19C137_J0244+32                  | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration | 449           | /           | /           | 02 44 46.00 | /           | +32 18 28.0 | /           |
| 1343 | G152.01-1.95                     | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SnapShotCal      | 1031          | 04 05 43.87 | +49 37 52.3 | /           | /           | /           | /           |
| 1344 | G152.01-1.95                     | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 04 05 43.87 | +49 37 52.3 | /           | /           | /           | /           |
| 1345 | G154.26+1.44                     | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 04 30 30.98 | +50 29 15.7 | /           | /           | /           | /           |
| 1346 | G154.26+1.44                     | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 04 30 30.98 | +50 29 15.7 | /           | /           | /           | /           |
| 1347 | G152.40+1.44                     | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 04 22 15.91 | +51 49 18.2 | /           | /           | /           | /           |
| 1348 | G152.40+1.44                     | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 04 22 15.91 | +51 49 18.2 | /           | /           | /           | /           |
| 1349 | G154.65+1.61                     | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 04 32 58.24 | +50 19 04.6 | /           | /           | /           | /           |

| ID   | source_name               | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA           | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|---------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 1350 | G154.65+1.61              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 32 58.24  | +50 19 04.6 | /           | /           | /           | /           |
| 1351 | G202.98-1.61              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 27 21.85  | +08 06 18.4 | /           | /           | /           | /           |
| 1352 | G202.98-1.61              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 27 21.85  | +08 06 18.4 | /           | /           | /           | /           |
| 1353 | G207.67+0.42              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 43 20.17  | +04 52 22.8 | /           | /           | /           | /           |
| 1354 | G207.67+0.42              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 43 20.17  | +04 52 22.8 | /           | /           | /           | /           |
| 1355 | G208.16+1.44              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 47 51.85  | +04 54 06.3 | /           | /           | /           | /           |
| 1356 | G208.16+1.44              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 47 51.85  | +04 54 06.3 | /           | /           | /           | /           |
| 1357 | G199.65+1.78              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 33 19.07  | +12 37 20.1 | /           | /           | /           | /           |
| 1358 | G199.65+1.78              | ZD2023_2    | 2024-06-17 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 33 19.07  | +12 37 20.1 | /           | /           | /           | /           |
| 1359 | 19C130_J0756-05           | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 07 56 15.00 | /           | -05 17 13.0 | /           |
| 1360 | C74_J0806-07              | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 08 06 18.70 | /           | -07 53 20.5 | /           |
| 1361 | 19C119_J0846-1049         | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 1362 | J0925+6103                | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 09 25 17.50 | /           | +61 03 04.1 | /           |
| 1363 | J0952-06                  | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /            | /           | 09 52 08.32 | /           | -06 07 23.5 | /           |
| 1364 | 19C33_J1115-0958          | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 11 15 29.00 | /           | -09 48 06.0 | /           |
| 1365 | C45_J0941+5452            | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 09 41 54.00 | /           | +45 42 40.0 | /           |
| 1366 | C39_J1020+4056            | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 10 20 59.00 | /           | +40 56 01.0 | /           |
| 1367 | 19C23_J1142+3253          | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 11 42 06.00 | /           | +32 53 02.0 | /           |
| 1368 | DEC+074539-f              | N2023_1     | 2024-06-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 35 00.00  | +07 45 39.9 | 11 35 00.00 | 13 35 00.00 | +07 45 39.9 | +07 45 39.9 |
| 1369 | C54_J1248+4050            | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 12 48 20.00 | /           | +40 50 44.0 | /           |
| 1370 | 19C122_J1404+0907         | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 14 04 36.00 | /           | +09 07 22.0 | /           |
| 1371 | C61_J1408+4944            | ZD2023_6    | 2024-06-17 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /            | /           | 14 08 36.56 | /           | +49 44 50.2 | /           |
| 1372 | J1924+3329                | PT2023_0027 | 2024-06-18 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /            | /           | 19 24 17.48 | 19 25 17.48 | +33 29 29.7 | +33 29 29.7 |
| 1373 | G48.0+0.0_RA              | PT2023_0027 | 2024-06-18 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 1151          | 19 19 25.96  | +13 22 39.3 | 19 15 25.96 | 19 23 25.96 | +12 22 39.3 | +14 22 39.3 |
| 1374 | G48.0+2.0                 | PT2023_0027 | 2024-06-18 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 19 12 08.42  | +14 18 29.9 | /           | /           | /           | /           |
| 1375 | G34.30-4.58               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 10 13.61  | -00 51 59.0 | /           | /           | /           | /           |
| 1376 | G34.30-4.58               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 10 13.61  | -00 51 59.0 | /           | /           | /           | /           |
| 1377 | G36.90-4.66               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 15 15.68  | +01 23 31.8 | /           | /           | /           | /           |
| 1378 | G36.90-4.66               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 15 15.68  | +01 23 31.8 | /           | /           | /           | /           |
| 1379 | J1924+2027g               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /            | /           | 19 24 42.10 | /           | +20 27 28.0 | /           |
| 1380 | J1924+2027g               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /            | /           | 19 24 42.10 | /           | +20 27 28.0 | /           |
| 1381 | G55.58+2.63               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 24 40.49  | +21 18 08.8 | /           | /           | /           | /           |
| 1382 | G55.58+2.63               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 24 40.49  | +21 18 08.8 | /           | /           | /           | /           |
| 1383 | G57.44+2.63               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 28 28.58  | +22 56 14.5 | /           | /           | /           | /           |
| 1384 | G57.44+2.63               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 28 28.58  | +22 56 14.5 | /           | /           | /           | /           |
| 1385 | G59.25+2.20               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 33 53.22  | +24 19 14.7 | /           | /           | /           | /           |
| 1386 | G59.25+2.20               | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 33 53.22  | +24 19 14.7 | /           | /           | /           | /           |
| 1387 | J2150+3427                | PT2023_0147 | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 2057          | /            | /           | 21 50 33.00 | /           | +34 27 37.2 | /           |
| 1388 | rg1_14_RA230000_Dec301000 | PT2023_0004 | 2024-06-18 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 183           | 23 00 00.00  | +30 10 00.0 | 23 00 00.00 | 21 59 30.00 | +30 10 00.0 | +30 10 00.0 |
| 1389 | G155.72-1.95              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 21 57.73  | +47 04 25.1 | /           | /           | /           | /           |
| 1390 | G155.72-1.95              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 21 57.73  | +47 04 25.1 | /           | /           | /           | /           |
| 1391 | G154.30+1.86              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 32 40.55  | +50 44 30.0 | /           | /           | /           | /           |
| 1392 | G154.30+1.86              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 32 40.55  | +50 44 30.0 | /           | /           | /           | /           |
| 1393 | G153.13+1.36              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 25 11.46  | +51 14 24.6 | /           | /           | /           | /           |
| 1394 | G153.13+1.36              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 25 11.46  | +51 14 24.6 | /           | /           | /           | /           |
| 1395 | G153.52+1.53              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 27 42.22  | +51 04 38.0 | /           | /           | /           | /           |
| 1396 | G153.52+1.53              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 27 42.22  | +51 04 38.0 | /           | /           | /           | /           |
| 1397 | G155.43+1.95              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 37 49.58  | +49 58 09.1 | /           | /           | /           | /           |
| 1398 | G155.43+1.95              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 37 49.58  | +49 58 09.1 | /           | /           | /           | /           |
| 1399 | G207.09-1.44              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 35 36.44  | +04 32 25.7 | /           | /           | /           | /           |
| 1400 | G207.09-1.44              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 35 36.44  | +04 32 25.7 | /           | /           | /           | /           |
| 1401 | G209.87+0.17              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 46 27.59  | +02 47 55.2 | /           | /           | /           | /           |
| 1402 | G209.87+0.17              | ZD2023_2    | 2024-06-18 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 46 27.59  | +02 47 55.2 | /           | /           | /           | /           |
| 1403 | J0614+2229                | PT2023_0045 | 2024-06-18 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 716           | +06 14 17.01 | +22 29 56.8 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1404 | DEC+082900-a                     | N2023_1     | 2024-06-18 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 30 00.00 | +08 29 00.3 | 12 30 00.00 | 14 30 00.00 | +08 29 00.3 | +08 29 00.3 |
| 1405 | DEC-093429-8                     | N2023_1     | 2024-06-18 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2216          | 11 23 00.00 | -09 34 29.7 | /           | /           | /           | /           |
| 1406 | DEC-093429-8                     | N2023_1     | 2024-06-18 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 439           | 11 23 00.00 | -09 34 29.7 | /           | /           | /           | /           |
| 1407 | 19C116_J1903+1407                | ZD2023_6    | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 49            | /           | /           | 19 03 41.00 | /           | +14 07 31.0 | /           |
| 1408 | C41_2359+4238                    | ZD2023_6    | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 985           | /           | /           | 23 59 19.10 | /           | +42 38 55.2 | /           |
| 1409 | FRB121102                        | PT2023_0073 | 2024-06-19 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 1410 | G150.88-2.03                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 00 07.95 | +50 18 36.8 | /           | /           | /           | /           |
| 1411 | G150.88-2.03                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 00 07.95 | +50 18 36.8 | /           | /           | /           | /           |
| 1412 | G149.07-1.61                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 03 53 03.42 | +51 47 56.0 | /           | /           | /           | /           |
| 1413 | G149.07-1.61                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 53 03.42 | +51 47 56.0 | /           | /           | /           | /           |
| 1414 | G153.18+1.78                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 27 21.42 | +51 30 00.4 | /           | /           | /           | /           |
| 1415 | G153.18+1.78                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 27 21.42 | +51 30 00.4 | /           | /           | /           | /           |
| 1416 | G153.91+1.69                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 30 11.92 | +50 54 39.8 | /           | /           | /           | /           |
| 1417 | G153.91+1.69                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 30 11.92 | +50 54 39.8 | /           | /           | /           | /           |
| 1418 | G204.49-1.36                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 31 06.46 | +06 52 46.8 | /           | /           | /           | /           |
| 1419 | G204.49-1.36                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 31 06.46 | +06 52 46.8 | /           | /           | /           | /           |
| 1420 | G205.23-1.44                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 32 10.15 | +06 11 23.8 | /           | /           | /           | /           |
| 1421 | G205.23-1.44                     | ZD2023_2    | 2024-06-19 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 32 10.15 | +06 11 23.8 | /           | /           | /           | /           |
| 1422 | Dec+1249_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-06-19 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00 | +12 49 02.7 | /           | /           | /           | /           |
| 1423 | Dec+1249_09_05                   | ZD2023_1_2  | 2024-06-19 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00 | +12 49 02.7 | /           | /           | /           | /           |
| 1424 | DEC+070219-d                     | N2023_1     | 2024-06-19 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 14 00 00.00 | +07 02 19.5 | 14 00 00.00 | 16 00 00.00 | +07 02 19.5 | +07 02 19.5 |
| 1425 | DEC-091249-9                     | N2023_1     | 2024-06-19 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 817           | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1426 | DEC-091249-9                     | N2023_1     | 2024-06-19 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 162           | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1427 | 19C46_J1813-0852                 | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 13 35.06 | /           | -08 52 18.8 | /           |
| 1428 | 19C27_J1759-12                   | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 17 59 56.30 | /           | -12 47 52.1 | /           |
| 1429 | J1924+3329                       | PT2023_0027 | 2024-06-20 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 19 24 17.48 | 19 25 17.48 | +33 29 29.7 | +33 29 29.7 |
| 1430 | G48.0+0.0_DE                     | PT2023_0027 | 2024-06-20 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 949           | 19 19 25.96 | +13 22 39.3 | 19 16 25.96 | 19 22 25.96 | +12 07 39.3 | +14 37 39.3 |
| 1431 | G48.0+2.0                        | PT2023_0027 | 2024-06-20 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 19 12 08.42 | +14 18 29.9 | /           | /           | /           | /           |
| 1432 | 19C77_J1948-0427                 | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 48 02.00 | /           | -04 27 06.0 | /           |
| 1433 | FRB20190417A                     | ZD2023_5    | 2024-06-20 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 19 39 22.73 | +59 18 58.3 | /           | /           | /           | /           |
| 1434 | G60.67-1.61                      | ZD2023_2    | 2024-06-20 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 51 27.57 | +23 39 25.9 | /           | /           | /           | /           |
| 1435 | G60.67-1.61                      | ZD2023_2    | 2024-06-20 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 51 27.57 | +23 39 25.9 | /           | /           | /           | /           |
| 1436 | G62.53-1.61                      | ZD2023_2    | 2024-06-20 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 55 39.35 | +25 15 04.0 | /           | /           | /           | /           |
| 1437 | G62.53-1.61                      | ZD2023_2    | 2024-06-20 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 55 39.35 | +25 15 04.0 | /           | /           | /           | /           |
| 1438 | G86.65-2.03                      | ZD2023_2    | 2024-06-20 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 21 07 25.68 | +44 29 16.7 | /           | /           | /           | /           |
| 1439 | G86.65-2.03                      | ZD2023_2    | 2024-06-20 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 07 25.68 | +44 29 16.7 | /           | /           | /           | /           |
| 1440 | G83.61-5.76                      | ZD2023_2    | 2024-06-20 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 21 11 09.89 | +39 44 13.6 | /           | /           | /           | /           |
| 1441 | G83.61-5.76                      | ZD2023_2    | 2024-06-20 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 11 09.89 | +39 44 13.6 | /           | /           | /           | /           |
| 1442 | M31_Drift_v6_37                  | ZD2023_4    | 2024-06-20 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 664           | 23 18 07.20 | +39 59 18.7 | /           | /           | /           | /           |
| 1443 | PPS_15                           | N2023_1     | 2024-06-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 02 00 00.75 | +44 57 40.5 | 02 00 00.00 | 04 00 00.00 | +44 57 40.5 | +44 57 40.5 |
| 1444 | 19C131_J0509-03                  | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 05 09 22.00 | /           | -03 33 26.0 | /           |
| 1445 | 19C125_J0521+56                  | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 05 22 33.20 | /           | +56 55 55.9 | /           |
| 1446 | 19C107_J0528-0404                | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 05 28 16.00 | /           | -04 04 43.1 | /           |
| 1447 | 19C124_J0505+27                  | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 07 05 44.00 | /           | +27 02 08.0 | /           |
| 1448 | 19C110_J0745-04                  | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 07 46 52.00 | /           | -04 11 09.0 | /           |
| 1449 | 19C130_J0756-05                  | ZD2023_6    | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 07 56 15.00 | /           | -05 17 13.0 | /           |
| 1450 | DEC-093429-9                     | N2023_1     | 2024-06-20 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 773           | 11 23 00.00 | -09 34 29.7 | /           | /           | /           | /           |
| 1451 | DEC-093429-9                     | N2023_1     | 2024-06-20 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 153           | 11 23 00.00 | -09 34 29.7 | /           | /           | /           | /           |
| 1452 | DEC+072359-b                     | N2023_1     | 2024-06-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 00 00.00 | +07 23 59.7 | 11 00 00.00 | 13 00 00.00 | +07 23 59.7 | +07 23 59.7 |
| 1453 | DEC+093400-a                     | N2023_1     | 2024-06-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 30 00.00 | +09 34 00.9 | 11 30 00.00 | 13 30 00.00 | +09 34 00.9 | +09 34 00.9 |
| 1454 | DEC+074539-d                     | N2023_1     | 2024-06-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 14 00 00.00 | +07 45 39.9 | 14 00 00.00 | 16 00 00.00 | +07 45 39.9 | +07 45 39.9 |
| 1455 | 19C30_1912-12                    | ZD2023_6    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 12 29.00 | /           | -12 15 26.0 | /           |
| 1456 | B1913+16                         | PT2023_0035 | 2024-06-21 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 377           | /           | /           | 19 15 28.00 | /           | +16 06 27.4 | /           |
| 1457 | source_1                         | PT2023_0160 | 2024-06-21 | 19波束接收机  | all      | psr(4k)   | Tracking          | 7153          | 19 03 41.00 | +14 07 31.0 | /           | /           | /           | /           |

| ID   | source_name               | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|---------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1458 | G51.87+2.63               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 17 17.05 | +18 01 16.7 | /           | /           | /           | /           |
| 1459 | G51.87+2.63               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 17 17.05 | +18 01 16.7 | /           | /           | /           | /           |
| 1460 | G54.07+2.37               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 22 34.99 | +19 50 47.0 | /           | /           | /           | /           |
| 1461 | G54.07+2.37               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 22 34.99 | +19 50 47.0 | /           | /           | /           | /           |
| 1462 | G91.39+0.42               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 16 00.10 | +49 37 40.0 | /           | /           | /           | /           |
| 1463 | G91.39+0.42               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 16 00.10 | +49 37 40.0 | /           | /           | /           | /           |
| 1464 | G91.98-0.93               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 24 26.79 | +49 05 16.1 | /           | /           | /           | /           |
| 1465 | G91.98-0.93               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 24 26.79 | +49 05 16.1 | /           | /           | /           | /           |
| 1466 | G90.02-1.78               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 19 42.65 | +47 06 29.1 | /           | /           | /           | /           |
| 1467 | G90.02-1.78               | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 19 42.65 | +47 06 29.1 | /           | /           | /           | /           |
| 1468 | rg1_15_RA230000_Dec303000 | PT2023_0004 | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 183           | 23 00 00.00 | +30 30 00.0 | 23 00 00.00 | 21 59 30.00 | +30 30 00.0 | +30 30 00.0 |
| 1469 | M31_Drift_v6_0            | ZD2023_4    | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 100           | 23 23 44.19 | +53 21 08.1 | /           | /           | /           | /           |
| 1470 | M31_Drift_v6_60           | ZD2023_4    | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 103           | 23 30 21.00 | +31 40 52.9 | /           | /           | /           | /           |
| 1471 | M31_Drift_v6_20           | ZD2023_4    | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 40            | 23 56 21.30 | +46 07 43.1 | /           | /           | /           | /           |
| 1472 | M31_Drift_v6_35           | ZD2023_4    | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 50            | 00 13 23.08 | +40 42 39.2 | /           | /           | /           | /           |
| 1473 | 3c48_OTF                  | ZD2023_4    | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 233           | 01 37 41.30 | +33 09 35.1 | 01 36 11.30 | 01 39 11.30 | +32 59 38.6 | +33 19 31.6 |
| 1474 | G152.74-2.03              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 08 43.10 | +49 04 33.4 | /           | /           | /           | /           |
| 1475 | G152.74-2.03              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 08 43.10 | +49 04 33.4 | /           | /           | /           | /           |
| 1476 | G150.15-1.95              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 03 56 57.85 | +50 51 02.0 | /           | /           | /           | /           |
| 1477 | G150.15-1.95              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 56 57.85 | +50 51 02.0 | /           | /           | /           | /           |
| 1478 | G149.41-1.86              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 03 53 43.22 | +51 23 06.7 | /           | /           | /           | /           |
| 1479 | G149.41-1.86              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 53 43.22 | +51 23 06.7 | /           | /           | /           | /           |
| 1480 | G158.41+2.03              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 50 04.99 | +47 46 08.6 | /           | /           | /           | /           |
| 1481 | G158.41+2.03              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 50 04.99 | +47 46 08.6 | /           | /           | /           | /           |
| 1482 | G159.15+1.95              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 52 27.61 | +47 08 59.2 | /           | /           | /           | /           |
| 1483 | G159.15+1.95              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 52 27.61 | +47 08 59.2 | /           | /           | /           | /           |
| 1484 | G161.40+2.12              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 01 21.15 | +45 29 51.6 | /           | /           | /           | /           |
| 1485 | G161.40+2.12              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 01 21.15 | +45 29 51.6 | /           | /           | /           | /           |
| 1486 | G210.46-1.19              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 42 42.31 | +01 39 26.7 | /           | /           | /           | /           |
| 1487 | G210.46-1.19              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 42 42.31 | +01 39 26.7 | /           | /           | /           | /           |
| 1488 | G207.09+1.78              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 47 06.44 | +06 00 49.6 | /           | /           | /           | /           |
| 1489 | G207.09+1.78              | ZD2023_2    | 2024-06-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 47 06.44 | +06 00 49.6 | /           | /           | /           | /           |
| 1490 | DEC-110110-9              | N2023_1     | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2015          | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 1491 | DEC-110110-9              | N2023_1     | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 399           | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 1492 | DEC+072359-c              | N2023_1     | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 00 00.00 | +07 23 59.7 | 12 00 00.00 | 14 00 00.00 | +07 23 59.7 | +07 23 59.7 |
| 1493 | DEC+074539-c              | N2023_1     | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 13 00 00.00 | +07 45 39.9 | 13 00 00.00 | 15 00 00.00 | +07 45 39.9 | +07 45 39.9 |
| 1494 | DEC-101750-9              | N2023_1     | 2024-06-21 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1310          | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 1495 | DEC-101750-9              | N2023_1     | 2024-06-21 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 259           | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 1496 | J1839+0100                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 39 27.60 | +01 00 33.0 | /           | /           | /           | /           |
| 1497 | J1836-0150                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 36 05.80 | -01 50 46.0 | /           | /           | /           | /           |
| 1498 | J1848-0044                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 48 51.60 | -00 44 28.0 | /           | /           | /           | /           |
| 1499 | J1858-0128                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 58 11.60 | -01 28 58.0 | /           | /           | /           | /           |
| 1500 | J1859-0224                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 59 40.10 | -02 24 35.0 | /           | /           | /           | /           |
| 1501 | J1917+0621                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 19 17 56.00 | /           | +06 21 43.0 | /           |
| 1502 | J1921+1216                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 21 03.30 | +12 16 39.0 | /           | /           | /           | /           |
| 1503 | J1930+1708                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 30 17.80 | +17 08 09.0 | /           | /           | /           | /           |
| 1504 | J1939+1848                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 39 01.50 | +18 48 32.0 | /           | /           | /           | /           |
| 1505 | J1924+2027                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 24 42.10 | +20 27 28.0 | /           | /           | /           | /           |
| 1506 | J1957+2754                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 19 57 13.60 | +27 54 16.0 | /           | /           | /           | /           |
| 1507 | J2015+3404                | PT2023_0017 | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /           | /           | 20 15 14.50 | /           | +34 04 22.0 | /           |
| 1508 | G68.06+1.19               | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 57 51.87 | +31 25 33.7 | /           | /           | /           | /           |
| 1509 | G68.06+1.19               | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 57 51.87 | +31 25 33.7 | /           | /           | /           | /           |
| 1510 | G77.69+0.93               | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 20 24 51.60 | +39 20 52.6 | /           | /           | /           | /           |
| 1511 | G77.69+0.93               | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 24 51.60 | +39 20 52.6 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1512 | J2032+4055g                      | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 20 32 38.30 | /           | +40 55 12.0 | /           |
| 1513 | J2032+4055g                      | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 20 32 38.30 | /           | +40 55 12.0 | /           |
| 1514 | rg1_16_RA230000_Dec305000        | PT2023_0004 | 2024-06-22 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 183           | 23 00 00.00 | +30 50 00.0 | 23 00 00.00 | 21 59 30.00 | +30 50 00.0 | +30 50 00.0 |
| 1515 | FRB20201124A                     | PT2023_0208 | 2024-06-22 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 05 08 03.51 | +26 03 38.5 | /           | /           | /           | /           |
| 1516 | G168.05+1.78                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 05 21 16.01 | +39 55 53.4 | /           | /           | /           | /           |
| 1517 | G168.05+1.78                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 21 16.01 | +39 55 53.4 | /           | /           | /           | /           |
| 1518 | G169.86+1.36                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 24 44.18 | +38 11 58.7 | /           | /           | /           | /           |
| 1519 | G169.86+1.36                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 24 44.18 | +38 11 58.7 | /           | /           | /           | /           |
| 1520 | G209.19+0.68                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 47 01.22 | +03 38 23.9 | /           | /           | /           | /           |
| 1521 | G209.19+0.68                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 47 01.22 | +03 38 23.9 | /           | /           | /           | /           |
| 1522 | G206.69+1.61                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 45 47.00 | +06 17 05.2 | /           | /           | /           | /           |
| 1523 | G206.69+1.61                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 45 47.00 | +06 17 05.2 | /           | /           | /           | /           |
| 1524 | J0653+0443g                      | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 1525 | J0653+0443g                      | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 1526 | G206.74+8.47                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 07 10 37.39 | +09 19 39.4 | /           | /           | /           | /           |
| 1527 | G206.74+8.47                     | ZD2023_2    | 2024-06-22 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 07 10 37.39 | +09 19 39.4 | /           | /           | /           | /           |
| 1528 | Dec+1227_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-06-22 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00 | +12 27 22.5 | /           | /           | /           | /           |
| 1529 | Dec+1227_09_05                   | ZD2023_1_2  | 2024-06-22 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00 | +12 27 22.5 | /           | /           | /           | /           |
| 1530 | DEC-103930-9                     | N2023_1     | 2024-06-22 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1936          | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 1531 | DEC-103930-9                     | N2023_1     | 2024-06-22 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 383           | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 1532 | G31.66+7.96                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 18 20 45.86 | +02 30 08.7 | /           | /           | /           | /           |
| 1533 | G31.66+7.96                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 18 20 45.86 | +02 30 08.7 | /           | /           | /           | /           |
| 1534 | G42.67-2.97                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 19 56.64 | +07 16 51.5 | /           | /           | /           | /           |
| 1535 | G42.67-2.97                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 19 56.64 | +07 16 51.5 | /           | /           | /           | /           |
| 1536 | G57.74-1.27                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 43 47.32 | +21 17 38.7 | /           | /           | /           | /           |
| 1537 | G57.74-1.27                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 43 47.32 | +21 17 38.7 | /           | /           | /           | /           |
| 1538 | G60.33-1.36                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 49 44.65 | +23 29 30.9 | /           | /           | /           | /           |
| 1539 | G60.33-1.36                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 49 44.65 | +23 29 30.9 | /           | /           | /           | /           |
| 1540 | G69.62-1.36                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 20 11 51.23 | +31 23 15.3 | /           | /           | /           | /           |
| 1541 | G69.62-1.36                      | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 11 51.23 | +31 23 15.3 | /           | /           | /           | /           |
| 1542 | FRB20240114A                     | PT2023_0073 | 2024-06-23 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 1543 | J2222-0137                       | PT2023_0015 | 2024-06-23 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 1129          | /           | /           | 22 22 05.90 | /           | -01 37 15.7 | /           |
| 1544 | DEC-095609-9                     | N2023_1     | 2024-06-23 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 885           | 11 23 00.00 | -09 56 09.9 | /           | /           | /           | /           |
| 1545 | DEC-095609-9                     | N2023_1     | 2024-06-23 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 175           | 11 23 00.00 | -09 56 09.9 | /           | /           | /           | /           |
| 1546 | G135.86-9.74                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 02 13 35.94 | +51 03 13.5 | /           | /           | /           | /           |
| 1547 | G135.86-9.74                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 02 13 35.94 | +51 03 13.5 | /           | /           | /           | /           |
| 1548 | G135.62-8.64                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 02 14 22.74 | +52 10 29.3 | /           | /           | /           | /           |
| 1549 | G135.62-8.64                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 02 14 22.74 | +52 10 29.3 | /           | /           | /           | /           |
| 1550 | G156.11-8.22                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 03 59 29.04 | +42 13 25.4 | /           | /           | /           | /           |
| 1551 | G156.11-8.22                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 59 29.04 | +42 13 25.4 | /           | /           | /           | /           |
| 1552 | G145.16-3.30                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 03 25 55.01 | +52 46 12.0 | /           | /           | /           | /           |
| 1553 | G145.16-3.30                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 25 55.01 | +52 46 12.0 | /           | /           | /           | /           |
| 1554 | G146.87-1.36                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 03 42 43.45 | +53 21 44.2 | /           | /           | /           | /           |
| 1555 | G146.87-1.36                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 42 43.45 | +53 21 44.2 | /           | /           | /           | /           |
| 1556 | G149.22-0.34                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 03 59 07.32 | +52 40 44.6 | /           | /           | /           | /           |
| 1557 | G149.22-0.34                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 03 59 07.32 | +52 40 44.6 | /           | /           | /           | /           |
| 1558 | G157.73+5.76                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 05 05 23.87 | +50 37 01.7 | /           | /           | /           | /           |
| 1559 | G157.73+5.76                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 05 23.87 | +50 37 01.7 | /           | /           | /           | /           |
| 1560 | G157.97+7.88                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 05 17 16.14 | +51 39 20.8 | /           | /           | /           | /           |
| 1561 | G157.97+7.88                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 17 16.14 | +51 39 20.8 | /           | /           | /           | /           |
| 1562 | G164.19+3.73                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 05 17 59.56 | +44 12 44.9 | /           | /           | /           | /           |
| 1563 | G164.19+3.73                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 17 59.56 | +44 12 44.9 | /           | /           | /           | /           |
| 1564 | G208.80-5.93                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 22 47.40 | +00 57 25.2 | /           | /           | /           | /           |
| 1565 | G208.80-5.93                     | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 22 47.40 | +00 57 25.2 | /           | /           | /           | /           |

| ID   | source_name   | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|---------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1566 | G206.35-4.58  | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 23 05.89 | +03 44 35.9 | /           | /           | /           | /           |
| 1567 | G206.35-4.58  | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 23 05.89 | +03 44 35.9 | /           | /           | /           | /           |
| 1568 | G201.12+8.05  | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 59 02.67 | +14 08 18.2 | /           | /           | /           | /           |
| 1569 | G201.12+8.05  | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 59 02.67 | +14 08 18.2 | /           | /           | /           | /           |
| 1570 | G206.40+8.73  | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 07 10 56.43 | +09 44 37.2 | /           | /           | /           | /           |
| 1571 | G206.40+8.73  | ZD2023_2    | 2024-06-23 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 07 10 56.43 | +09 44 37.2 | /           | /           | /           | /           |
| 1572 | DEC+305232-a  | N2023_1     | 2024-06-23 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 08 00 00.00 | +30 52 32.7 | 08 00 00.00 | 10 00 00.00 | +30 52 32.7 | +30 52 32.7 |
| 1573 | DEC+064039-d  | N2023_1     | 2024-06-23 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 00 00.00 | +06 40 39.3 | 12 00 00.00 | 14 00 00.00 | +06 40 39.3 | +06 40 39.3 |
| 1574 | DEC-112250-9  | N2023_1     | 2024-06-23 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2060          | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 1575 | DEC-112250-9  | N2023_1     | 2024-06-23 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 408           | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 1576 | M13           | PT2023_0040 | 2024-06-23 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 1299          | /           | /           | 16 41 41.24 | /           | +36 27 35.5 | /           |
| 1577 | J1845-0029    | PT2023_0168 | 2024-06-24 | 19波束接收机  | all      | psr(1k)   | MultiPos          | 3397          | /           | /           | 18 45 39.80 | /           | -00 29 01.0 | /           |
| 1578 | G50.0+2.0     | PT2023_0027 | 2024-06-24 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 19 15 58.74 | +16 04 46.6 | /           | /           | /           | /           |
| 1579 | G50.0+0.0_RA  | PT2023_0027 | 2024-06-24 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 1151          | 19 23 18.99 | +15 08 32.5 | 19 19 18.99 | 19 27 18.99 | +14 08 32.5 | +16 08 32.5 |
| 1580 | J1924+3329    | PT2023_0027 | 2024-06-24 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 19 24 17.48 | 19 25 17.48 | +33 29 29.7 | +33 29 29.7 |
| 1581 | G135.28-8.39  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 02 12 48.02 | +52 31 22.5 | /           | /           | /           | /           |
| 1582 | G135.28-8.39  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 02 12 48.02 | +52 31 22.5 | /           | /           | /           | /           |
| 1583 | G140.36-6.19  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 02 49 03.92 | +52 39 34.8 | /           | /           | /           | /           |
| 1584 | G140.36-6.19  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 02 49 03.92 | +52 39 34.8 | /           | /           | /           | /           |
| 1585 | G152.20-3.47  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 04 00 28.60 | +48 21 28.3 | /           | /           | /           | /           |
| 1586 | G152.20-3.47  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 00 28.60 | +48 21 28.3 | /           | /           | /           | /           |
| 1587 | G157.29-4.49  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 04 18 04.70 | +44 10 05.2 | /           | /           | /           | /           |
| 1588 | G157.29-4.49  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 18 04.70 | +44 10 05.2 | /           | /           | /           | /           |
| 1589 | G157.58-1.95  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 29 28.85 | +45 44 33.0 | /           | /           | /           | /           |
| 1590 | G157.58-1.95  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 29 28.85 | +45 44 33.0 | /           | /           | /           | /           |
| 1591 | G160.17-2.03  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 39 01.02 | +43 46 43.6 | /           | /           | /           | /           |
| 1592 | G160.17-2.03  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 39 01.02 | +43 46 43.6 | /           | /           | /           | /           |
| 1593 | G161.30-1.95  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 43 27.36 | +42 59 26.6 | /           | /           | /           | /           |
| 1594 | G161.30-1.95  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 43 27.36 | +42 59 26.6 | /           | /           | /           | /           |
| 1595 | G162.87+1.95  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 05 37.80 | +44 13 50.5 | /           | /           | /           | /           |
| 1596 | G162.87+1.95  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 05 37.80 | +44 13 50.5 | /           | /           | /           | /           |
| 1597 | G165.46+1.86  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 13 42.29 | +42 05 47.9 | /           | /           | /           | /           |
| 1598 | G165.46+1.86  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 13 42.29 | +42 05 47.9 | /           | /           | /           | /           |
| 1599 | G213.20-3.22  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 40 27.72 | -01 42 21.6 | /           | /           | /           | /           |
| 1600 | G213.20-3.22  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 40 27.72 | -01 42 21.6 | /           | /           | /           | /           |
| 1601 | G214.62-0.59  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 52 24.20 | -01 46 18.3 | /           | /           | /           | /           |
| 1602 | G214.62-0.59  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 52 24.20 | -01 46 18.3 | /           | /           | /           | /           |
| 1603 | G209.29+1.53  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 06 50 13.33 | +03 56 20.7 | /           | /           | /           | /           |
| 1604 | G209.29+1.53  | ZD2023_2    | 2024-06-24 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 50 13.33 | +03 56 20.7 | /           | /           | /           | /           |
| 1605 | DEC-091249-8  | N2023_1     | 2024-06-24 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1008          | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1606 | DEC-091249-8  | N2023_1     | 2024-06-24 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 200           | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1607 | DEC-093429-10 | N2023_1     | 2024-06-24 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | -09 34 29.7 | /           | /           | /           | /           |
| 1608 | DEC-093429-10 | N2023_1     | 2024-06-24 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | -09 34 29.7 | /           | /           | /           | /           |
| 1609 | DEC+003215-c  | N2023_1     | 2024-06-24 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 15 00 00.00 | +00 32 15.9 | 15 00 00.00 | 17 00 00.00 | +00 32 15.9 | +00 32 15.9 |
| 1610 | G169.91+1.78  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 26 39.92 | +38 23 46.3 | /           | /           | /           | /           |
| 1611 | G169.91+1.78  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 26 39.92 | +38 23 46.3 | /           | /           | /           | /           |
| 1612 | G211.05+0.68  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 50 24.89 | +01 59 08.8 | /           | /           | /           | /           |
| 1613 | G211.05+0.68  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 50 24.89 | +01 59 08.8 | /           | /           | /           | /           |
| 1614 | G210.71+0.93  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 50 41.74 | +02 24 23.0 | /           | /           | /           | /           |
| 1615 | G210.71+0.93  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 50 41.74 | +02 24 23.0 | /           | /           | /           | /           |
| 1616 | G209.68+1.69  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 51 32.46 | +03 40 04.7 | /           | /           | /           | /           |
| 1617 | G209.68+1.69  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 51 32.46 | +03 40 04.7 | /           | /           | /           | /           |
| 1618 | G206.99+7.37  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 07 07 03.74 | +08 37 17.1 | /           | /           | /           | /           |
| 1619 | G206.99+7.37  | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 07 07 03.74 | +08 37 17.1 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA           | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 1620 | G206.55+10.00                    | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 07 15 50.02  | +10 10 23.4 | /           | /           | /           | /           |
| 1621 | G206.55+10.00                    | ZD2023_2    | 2024-06-25 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 07 15 50.02  | +10 10 23.4 | /           | /           | /           | /           |
| 1622 | Dec+1144_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-06-25 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00  | +11 44 02.1 | /           | /           | /           | /           |
| 1623 | Dec+1144_09_05                   | ZD2023_1_2  | 2024-06-25 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00  | +11 44 02.1 | /           | /           | /           | /           |
| 1624 | DEC-114430-8                     | N2023_1     | 2024-06-25 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2518          | 11 23 00.00  | -11 44 30.9 | /           | /           | /           | /           |
| 1625 | DEC-114430-8                     | N2023_1     | 2024-06-25 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 498           | 11 23 00.00  | -11 44 30.9 | /           | /           | /           | /           |
| 1626 | J1845+0201                       | PT2023_0017 | 2024-06-26 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /            | /           | 18 45 03.00 | /           | +02 01 49.0 | /           |
| 1627 | J1839+0100                       | PT2023_0017 | 2024-06-26 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 39 27.60  | +01 00 33.0 | /           | /           | /           | /           |
| 1628 | J1848-0044                       | PT2023_0017 | 2024-06-26 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 2151          | /            | /           | 18 48 51.60 | /           | -00 44 28.0 | /           |
| 1629 | J1858-0128                       | PT2023_0017 | 2024-06-26 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 58 11.60  | -01 28 58.0 | /           | /           | /           | /           |
| 1630 | J1859-0224                       | PT2023_0017 | 2024-06-26 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1793          | 18 59 40.10  | -02 24 35.0 | /           | /           | /           | /           |
| 1631 | J1855-0756                       | PT2023_0110 | 2024-06-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00  | -07 56 43.0 | /           | /           | /           | /           |
| 1632 | G39.15-4.49                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 18 48.11  | +03 27 37.7 | /           | /           | /           | /           |
| 1633 | G39.15-4.49                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 18 48.11  | +03 27 37.7 | /           | /           | /           | /           |
| 1634 | G43.99-4.41                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 27 34.30  | +07 46 06.8 | /           | /           | /           | /           |
| 1635 | G43.99-4.41                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 27 34.30  | +07 46 06.8 | /           | /           | /           | /           |
| 1636 | G50.74-3.90                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 38 54.74  | +13 55 12.8 | /           | /           | /           | /           |
| 1637 | G50.74-3.90                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 38 54.74  | +13 55 12.8 | /           | /           | /           | /           |
| 1638 | G60.38-4.15                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 20 00 15.01  | +22 05 34.3 | /           | /           | /           | /           |
| 1639 | G60.38-4.15                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 00 15.01  | +22 05 34.3 | /           | /           | /           | /           |
| 1640 | J2238-1221                       | ZD2023_6    | 2024-06-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 114           | +22 38 44.13 | -12 21 31.1 | /           | /           | /           | /           |
| 1641 | rg1_17_RA230000_Dec311000        | PT2023_0004 | 2024-06-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 183           | 23 00 00.00  | +31 10 00.0 | 23 00 00.00 | 21 59 30.00 | +31 10 00.0 | +31 10 00.0 |
| 1642 | FRB_191108                       | PT2023_0043 | 2024-06-26 | 19波束接收机  | all      | psr(4k)   | Tracking          | 8955          | 01 33 47.00  | +31 51 30.0 | /           | /           | /           | /           |
| 1643 | FRB121102                        | PT2023_0073 | 2024-06-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70  | +33 08 52.5 | /           | /           | /           | /           |
| 1644 | J0612+3721                       | PT2023_0050 | 2024-06-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1317          | 06 12 48.68  | +37 21 37.4 | /           | /           | /           | /           |
| 1645 | FRB20180301A                     | PT2023_0124 | 2024-06-26 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 941           | 06 12 54.44  | +04 40 15.8 | /           | /           | /           | /           |
| 1646 | J0653+0443g                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /            | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 1647 | J0653+0443g                      | ZD2023_2    | 2024-06-26 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /            | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 1648 | DEC+303052-a                     | N2023_1     | 2024-06-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 08 00 00.00  | +30 30 52.5 | 08 00 00.00 | 10 00 00.00 | +30 30 52.5 | +30 30 52.5 |
| 1649 | DEC+055718-c                     | N2023_1     | 2024-06-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 10 00 00.00  | +05 57 18.9 | 10 00 00.00 | 12 00 00.00 | +05 57 18.9 | +05 57 18.9 |
| 1650 | DEC+070219-b                     | N2023_1     | 2024-06-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 00 00.00  | +07 02 19.5 | 12 00 00.00 | 14 00 00.00 | +07 02 19.5 | +07 02 19.5 |
| 1651 | DEC-024245-c                     | N2023_1     | 2024-06-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 15 00 00.00  | -02 42 45.9 | 15 00 00.00 | 17 00 00.00 | -02 42 45.9 | -02 42 45.9 |
| 1652 | J1713+0747                       | PT2023_0096 | 2024-06-26 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 13 49.53  | +07 47 37.5 | /           | /           | /           | /           |
| 1653 | DEC-114430-9                     | N2023_1     | 2024-06-26 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 560           | 11 23 00.00  | -11 44 30.9 | /           | /           | /           | /           |
| 1654 | DEC-114430-9                     | N2023_1     | 2024-06-26 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 111           | 11 23 00.00  | -11 44 30.9 | /           | /           | /           | /           |
| 1655 | J182254+004414                   | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /            | /           | 18 22 54.56 | /           | +00 44 14.6 | /           |
| 1656 | J182254+004414                   | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /            | /           | 18 22 54.56 | /           | +00 44 14.6 | /           |
| 1657 | J182541-025425                   | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 18 25 41.73  | -02 54 25.7 | /           | /           | /           | /           |
| 1658 | J182541-025425                   | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 18 25 41.73  | -02 54 25.7 | /           | /           | /           | /           |
| 1659 | J190013-024106                   | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 00 13.30  | -02 41 06.0 | /           | /           | /           | /           |
| 1660 | J190013-024106                   | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 00 13.30  | -02 41 06.0 | /           | /           | /           | /           |
| 1661 | J1921+1632g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 16085         | 19 21 32.90  | +16 32 01.0 | /           | /           | /           | /           |
| 1662 | J1921+1632g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 1593          | 19 21 32.90  | +16 32 01.0 | /           | /           | /           | /           |
| 1663 | J193104+233326                   | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /            | /           | 19 31 04.21 | /           | +23 33 26.0 | /           |
| 1664 | J193104+233326                   | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /            | /           | 19 31 04.21 | /           | +23 33 26.0 | /           |
| 1665 | FRB_190117                       | PT2023_0043 | 2024-06-27 | 19波束接收机  | all      | psr(4k)   | Tracking          | 8955          | 22 07 00.00  | +17 23 00.0 | /           | /           | /           | /           |
| 1666 | rg1_18_RA230000_Dec313000        | PT2023_0004 | 2024-06-27 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 183           | 23 00 00.00  | +31 30 00.0 | 23 00 00.00 | 21 59 30.00 | +31 30 00.0 | +31 30 00.0 |
| 1667 | J0414+4859g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /            | /           | 04 14 57.70 | /           | +48 59 26.0 | /           |
| 1668 | J0414+4859g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /            | /           | 04 14 57.70 | /           | +48 59 26.0 | /           |
| 1669 | J0408+4955g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 04 08 07.20  | +49 55 51.0 | /           | /           | /           | /           |
| 1670 | J0408+4955g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 04 08 07.20  | +49 55 51.0 | /           | /           | /           | /           |
| 1671 | J0417+5058g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 04 17 44.90  | +50 58 10.0 | /           | /           | /           | /           |
| 1672 | J0417+5058g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 04 17 44.90  | +50 58 10.0 | /           | /           | /           | /           |
| 1673 | J0416+5202g                      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 04 16 27.28  | +52 01 25.8 | /           | /           | /           | /           |

| ID   | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1674 | J0416+5202g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 04 16 27.28 | +52 01 25.8 | /           | /           | /           | /           |
| 1675 | G152.84+2.03      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 27 00.28 | +51 55 22.4 | /           | /           | /           | /           |
| 1676 | G152.84+2.03      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 27 00.28 | +51 55 22.4 | /           | /           | /           | /           |
| 1677 | G153.57+1.95      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 29 52.55 | +51 20 03.6 | /           | /           | /           | /           |
| 1678 | G153.57+1.95      | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 29 52.55 | +51 20 03.6 | /           | /           | /           | /           |
| 1679 | J0514+4009g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 14 59.30 | +40 10 02.0 | /           | /           | /           | /           |
| 1680 | J0514+4009g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 14 59.30 | +40 10 02.0 | /           | /           | /           | /           |
| 1681 | J0520+3722g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 20 13.50 | +37 22 23.0 | /           | /           | /           | /           |
| 1682 | J0520+3722g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 20 13.50 | +37 22 23.0 | /           | /           | /           | /           |
| 1683 | J0528+3529g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 05 28 28.90 | /           | +35 29 28.0 | /           |
| 1684 | J0528+3529g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 05 28 28.90 | /           | +35 29 28.0 | /           |
| 1685 | J0541+2959g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 41 44.40 | +29 59 02.0 | /           | /           | /           | /           |
| 1686 | J0541+2959g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 41 44.40 | +29 59 02.0 | /           | /           | /           | /           |
| 1687 | J0630+1002g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 30 24.80 | +10 02 32.0 | /           | /           | /           | /           |
| 1688 | J0630+1002g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 30 24.80 | +10 02 32.0 | /           | /           | /           | /           |
| 1689 | J0622+0338g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 22 09.30 | +03 38 43.0 | /           | /           | /           | /           |
| 1690 | J0622+0338g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 22 09.30 | +03 38 43.0 | /           | /           | /           | /           |
| 1691 | J0623+0220g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 23 24.70 | +02 20 43.0 | /           | /           | /           | /           |
| 1692 | J0623+0220g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 23 24.70 | +02 20 43.0 | /           | /           | /           | /           |
| 1693 | J0651-0054g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 51 08.30 | -00 55 40.0 | /           | /           | /           | /           |
| 1694 | J0651-0054g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 51 08.30 | -00 55 40.0 | /           | /           | /           | /           |
| 1695 | J0637+0332g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 37 40.70 | +03 32 29.0 | /           | /           | /           | /           |
| 1696 | J0637+0332g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 37 40.70 | +03 32 29.0 | /           | /           | /           | /           |
| 1697 | J0641+0359g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 41 12.50 | +03 59 13.0 | /           | /           | /           | /           |
| 1698 | J0641+0359g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 41 12.50 | +03 59 13.0 | /           | /           | /           | /           |
| 1699 | J0643+0348g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 06 43 01.80 | +03 50 01.0 | /           | /           | /           | /           |
| 1700 | J0643+0348g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 06 43 01.80 | +03 50 01.0 | /           | /           | /           | /           |
| 1701 | J0653+0443g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 1702 | J0653+0443g       | ZD2023_2    | 2024-06-27 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 1703 | DEC+051358-b      | N2023_1     | 2024-06-27 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 08 00 00.00 | +05 13 58.5 | 08 00 00.00 | 10 00 00.00 | +05 13 58.5 | +05 13 58.5 |
| 1704 | DEC+053538-c      | N2023_1     | 2024-06-27 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 10 00 00.00 | +05 35 38.7 | 10 00 00.00 | 12 00 00.00 | +05 35 38.7 | +05 35 38.7 |
| 1705 | FRB_190116        | PT2023_0043 | 2024-06-27 | 19波束接收机  | all      | psr(4k)   | Tracking          | 12535         | 12 49 00.00 | +27 09 00.0 | /           | /           | /           | /           |
| 1706 | PSR_J1537+1155    | PT2023_0159 | 2024-06-27 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2263          | /           | /           | 15 37 09.96 | /           | +11 55 55.4 | /           |
| 1707 | 1540+147          | PT2023_0159 | 2024-06-27 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 57            | 15 40 49.49 | +14 47 45.9 | /           | /           | /           | /           |
| 1708 | source_2          | PT2023_0171 | 2024-06-27 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 18 52 46.67 | +00 33 17.8 | /           | /           | /           | /           |
| 1709 | source_73         | PT2023_0032 | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 17 45 34.90 | -00 08 04.0 | /           | /           | /           | /           |
| 1710 | 19C112_J1813-0452 | PT2023_0181 | 2024-06-28 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 114           | /           | /           | 18 13 23.00 | /           | -04 52 02.0 | /           |
| 1711 | 19C118_J1937+14   | PT2023_0181 | 2024-06-28 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 95            | /           | /           | 19 37 41.01 | /           | +14 17 14.7 | /           |
| 1712 | G50.0+2.0         | PT2023_0027 | 2024-06-28 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 19 15 58.74 | +16 04 46.6 | /           | /           | /           | /           |
| 1713 | G50.0+0.0_DE      | PT2023_0027 | 2024-06-28 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 949           | 19 23 18.99 | +15 08 32.5 | 19 20 18.99 | 19 26 18.99 | +13 53 32.5 | +16 23 32.5 |
| 1714 | J1924+3329        | PT2023_0027 | 2024-06-28 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 19 24 17.48 | 19 25 17.48 | +33 29 29.7 | +33 29 29.7 |
| 1715 | G69.18+4.49       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 47 04.85 | +34 04 47.2 | /           | /           | /           | /           |
| 1716 | G69.18+4.49       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 47 04.85 | +34 04 47.2 | /           | /           | /           | /           |
| 1717 | G71.68+3.56       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 57 10.15 | +35 44 55.5 | /           | /           | /           | /           |
| 1718 | G71.68+3.56       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 57 10.15 | +35 44 55.5 | /           | /           | /           | /           |
| 1719 | G71.04+1.27       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 05 01.10 | +34 00 12.7 | /           | /           | /           | /           |
| 1720 | G71.04+1.27       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 05 01.10 | +34 00 12.7 | /           | /           | /           | /           |
| 1721 | G76.57-2.37       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 35 04.01 | +36 29 45.1 | /           | /           | /           | /           |
| 1722 | G76.57-2.37       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 35 04.01 | +36 29 45.1 | /           | /           | /           | /           |
| 1723 | G84.44-5.00       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 21 11 11.30 | +40 51 45.6 | /           | /           | /           | /           |
| 1724 | G84.44-5.00       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 11 11.30 | +40 51 45.6 | /           | /           | /           | /           |
| 1725 | G92.71-7.46       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 21 53 03.25 | +44 41 49.8 | /           | /           | /           | /           |
| 1726 | G92.71-7.46       | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 53 03.25 | +44 41 49.8 | /           | /           | /           | /           |
| 1727 | G105.58-8.73      | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 23 01 14.47 | +50 23 39.6 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1728 | G105.58-8.73                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 23 01 14.47 | +50 23 39.6 | /           | /           | /           | /           |
| 1729 | G158.32-2.03                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 31 59.75 | +45 09 02.2 | /           | /           | /           | /           |
| 1730 | G158.32-2.03                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 31 59.75 | +45 09 02.2 | /           | /           | /           | /           |
| 1731 | G156.46-2.03                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 24 37.39 | +46 29 33.9 | /           | /           | /           | /           |
| 1732 | G156.46-2.03                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 24 37.39 | +46 29 33.9 | /           | /           | /           | /           |
| 1733 | G152.01+1.27                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 19 41.54 | +51 58 38.9 | /           | /           | /           | /           |
| 1734 | G152.01+1.27                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 19 41.54 | +51 58 38.9 | /           | /           | /           | /           |
| 1735 | G166.14-1.86                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 00 09.35 | +39 18 28.2 | /           | /           | /           | /           |
| 1736 | G166.14-1.86                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 00 09.35 | +39 18 28.2 | /           | /           | /           | /           |
| 1737 | G167.66-1.61                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 05 55.91 | +38 15 40.9 | /           | /           | /           | /           |
| 1738 | G167.66-1.61                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 05 55.91 | +38 15 40.9 | /           | /           | /           | /           |
| 1739 | G207.82-1.53                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 36 39.40 | +03 51 00.0 | /           | /           | /           | /           |
| 1740 | G207.82-1.53                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 36 39.40 | +03 51 00.0 | /           | /           | /           | /           |
| 1741 | G210.75+1.36                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 52 17.68 | +02 33 21.1 | /           | /           | /           | /           |
| 1742 | G210.75+1.36                     | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 52 17.68 | +02 33 21.1 | /           | /           | /           | /           |
| 1743 | J0653+0443g                      | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 1744 | J0653+0443g                      | ZD2023_2    | 2024-06-28 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 06 53 03.80 | /           | +04 43 13.0 | /           |
| 1745 | DEC+590248-10                    | N2023_1     | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 426           | 11 23 00.00 | +59 02 48.3 | /           | /           | /           | /           |
| 1746 | DEC+590248-10                    | N2023_1     | 2024-06-28 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 85            | 11 23 00.00 | +59 02 48.3 | /           | /           | /           | /           |
| 1747 | Dec+1520_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-06-28 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00 | +15 20 44.1 | /           | /           | /           | /           |
| 1748 | Dec+1520_09_05                   | ZD2023_1_2  | 2024-06-28 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00 | +15 20 44.1 | /           | /           | /           | /           |
| 1749 | DEC-110110-8                     | N2023_1     | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1914          | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 1750 | DEC-110110-8                     | N2023_1     | 2024-06-28 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 379           | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 1751 | C52_J1929+4104                   | ZD2023_6    | 2024-06-28 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 1752 | J1823+0550                       | PT2023_0050 | 2024-06-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1505          | 18 23 30.97 | +05 50 24.3 | /           | /           | /           | /           |
| 1753 | G48.0+2.0                        | PT2023_0027 | 2024-06-29 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 19 12 08.42 | +14 18 29.9 | /           | /           | /           | /           |
| 1754 | G48.0+0.0_RA                     | PT2023_0027 | 2024-06-29 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 1151          | 19 19 25.96 | +13 22 39.3 | 19 15 25.96 | 19 23 25.96 | +12 22 39.3 | +14 22 39.3 |
| 1755 | J1924+3329                       | PT2023_0027 | 2024-06-29 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 19 24 17.48 | 19 25 17.48 | +33 29 29.7 | +33 29 29.7 |
| 1756 | J194553+201135                   | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 19 45 53.11 | /           | +20 11 35.3 | /           |
| 1757 | J194553+201135                   | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 19 45 53.11 | /           | +20 11 35.3 | /           |
| 1758 | G74.27-2.97                      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 30 43.49 | +34 17 42.4 | /           | /           | /           | /           |
| 1759 | G74.27-2.97                      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 30 43.49 | +34 17 42.4 | /           | /           | /           | /           |
| 1760 | G76.03-3.81                      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 39 08.61 | +35 11 57.7 | /           | /           | /           | /           |
| 1761 | G76.03-3.81                      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 39 08.61 | +35 11 57.7 | /           | /           | /           | /           |
| 1762 | G86.79-7.20                      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 21 28 10.20 | +40 59 17.5 | /           | /           | /           | /           |
| 1763 | G86.79-7.20                      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 28 10.20 | +40 59 17.5 | /           | /           | /           | /           |
| 1764 | G106.16-6.86                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 22 59 37.82 | +52 19 50.5 | /           | /           | /           | /           |
| 1765 | G106.16-6.86                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 22 59 37.82 | +52 19 50.5 | /           | /           | /           | /           |
| 1766 | FRB20190117A                     | ZD2023_5    | 2024-06-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 22 06 42.39 | +17 20 27.5 | /           | /           | /           | /           |
| 1767 | FRB20220912A                     | ZD2023_5    | 2024-06-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 23 09 04.90 | +48 42 25.4 | /           | /           | /           | /           |
| 1768 | FRB20200223B                     | ZD2023_5    | 2024-06-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 00 33 03.60 | +28 49 51.6 | /           | /           | /           | /           |
| 1769 | DEC-114430-10                    | N2023_1     | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 717           | 11 23 00.00 | -11 44 30.9 | /           | /           | /           | /           |
| 1770 | DEC-114430-10                    | N2023_1     | 2024-06-29 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 142           | 11 23 00.00 | -11 44 30.9 | /           | /           | /           | /           |
| 1771 | G162.03-2.03                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 45 42.69 | +42 22 47.5 | /           | /           | /           | /           |
| 1772 | G162.03-2.03                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 45 42.69 | +42 22 47.5 | /           | /           | /           | /           |
| 1773 | G163.89-2.03                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 52 06.19 | +40 57 22.9 | /           | /           | /           | /           |
| 1774 | G163.89-2.03                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 52 06.19 | +40 57 22.9 | /           | /           | /           | /           |
| 1775 | G165.75-2.03                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 58 12.85 | +39 30 37.4 | /           | /           | /           | /           |
| 1776 | G165.75-2.03                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 58 12.85 | +39 30 37.4 | /           | /           | /           | /           |
| 1777 | G168.00-1.86                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 05 57.02 | +37 50 06.2 | /           | /           | /           | /           |
| 1778 | G168.00-1.86                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 05 57.02 | +37 50 06.2 | /           | /           | /           | /           |
| 1779 | G169.47-2.03                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 09 40.67 | +36 33 31.6 | /           | /           | /           | /           |
| 1780 | G169.47-2.03                     | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 09 40.67 | +36 33 31.6 | /           | /           | /           | /           |
| 1781 | J051754+343605                   | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 05 17 54.60 | /           | +34 36 05.0 | /           |

| ID   | source_name       | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|-------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1782 | J051754+343605    | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 05 17 54.60 | /           | +34 36 05.0 | /           |
| 1783 | J063430+063245    | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 06 34 30.00 | +06 32 45.0 | /           | /           | /           | /           |
| 1784 | J063430+063245    | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 06 34 30.00 | +06 32 45.0 | /           | /           | /           | /           |
| 1785 | J064133+044835    | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 06 41 33.30 | +04 48 35.0 | /           | /           | /           | /           |
| 1786 | J064133+044835    | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 06 41 33.30 | +04 48 35.0 | /           | /           | /           | /           |
| 1787 | G208.99-1.02      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 40 37.36 | +03 02 23.1 | /           | /           | /           | /           |
| 1788 | G208.99-1.02      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 40 37.36 | +03 02 23.1 | /           | /           | /           | /           |
| 1789 | G211.29-0.42      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 46 56.32 | +01 15 56.7 | /           | /           | /           | /           |
| 1790 | G211.29-0.42      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 46 56.32 | +01 15 56.7 | /           | /           | /           | /           |
| 1791 | G210.07+1.86      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 52 51.55 | +03 23 48.5 | /           | /           | /           | /           |
| 1792 | G210.07+1.86      | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 52 51.55 | +03 23 48.5 | /           | /           | /           | /           |
| 1793 | 3C154             | PT2023_0140 | 2024-06-29 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1344          | 06 13 50.14 | +26 04 36.7 | /           | /           | /           | /           |
| 1794 | 4C31.25           | PT2023_0140 | 2024-06-29 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1344          | 06 44 58.92 | +31 49 58.2 | /           | /           | /           | /           |
| 1795 | 19C108_J0844-03G1 | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | OnOff             | 583           | /           | /           | 08 44 39.00 | 08 44 33.00 | -03 29 52.0 | -03 27 16.0 |
| 1796 | 19C108_J0844-03G2 | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | OnOff             | 583           | /           | /           | 08 44 45.00 | 08 44 51.00 | -03 27 16.0 | -03 29 52.0 |
| 1797 | J0952-06          | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 09 52 08.32 | /           | -06 07 23.5 | /           |
| 1798 | C45_J0941+5452    | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 09 41 54.00 | /           | +45 42 40.0 | /           |
| 1799 | 19C128_J1006+2717 | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 10 06 43.03 | /           | +27 17 28.5 | /           |
| 1800 | C39_J1020+4056    | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 10 20 59.00 | /           | +40 56 01.0 | /           |
| 1801 | C54_J1248+4050    | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 12 48 20.00 | /           | +40 50 44.0 | /           |
| 1802 | 19C122_J1404+0907 | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 14 04 36.00 | /           | +09 07 22.0 | /           |
| 1803 | DEC+053538-d      | N2023_1     | 2024-06-29 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 00 00.00 | +05 35 38.7 | 12 00 00.00 | 14 00 00.00 | +05 35 38.7 | +05 35 38.7 |
| 1804 | C61_J1408+4944    | ZD2023_6    | 2024-06-29 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 14 08 36.56 | /           | +49 44 50.2 | /           |
| 1805 | FRB20190208A      | ZD2023_5    | 2024-06-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 298           | 18 54 16.79 | +46 55 26.7 | /           | /           | /           | /           |
| 1806 | G44.82+2.80       | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 03 15.03 | +11 51 07.9 | /           | /           | /           | /           |
| 1807 | G44.82+2.80       | ZD2023_2    | 2024-06-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 03 15.03 | +11 51 07.9 | /           | /           | /           | /           |
| 1808 | G42.28+3.30       | ZD2023_2    | 2024-06-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 56 42.11 | +09 49 16.3 | /           | /           | /           | /           |
| 1809 | G42.28+3.30       | ZD2023_2    | 2024-06-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 56 42.11 | +09 49 16.3 | /           | /           | /           | /           |
| 1810 | G39.29-3.22       | ZD2023_2    | 2024-06-30 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 14 33.36 | +04 10 41.1 | /           | /           | /           | /           |
| 1811 | G39.29-3.22       | ZD2023_2    | 2024-06-30 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 14 33.36 | +04 10 41.1 | /           | /           | /           | /           |
| 1812 | G56.12-2.37       | ZD2023_2    | 2024-06-30 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 44 26.00 | +19 20 47.1 | /           | /           | /           | /           |
| 1813 | G56.12-2.37       | ZD2023_2    | 2024-06-30 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 44 26.00 | +19 20 47.1 | /           | /           | /           | /           |
| 1814 | G69.23-1.53       | ZD2023_2    | 2024-06-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 20 11 30.81 | +30 58 03.0 | /           | /           | /           | /           |
| 1815 | G69.23-1.53       | ZD2023_2    | 2024-06-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 11 30.81 | +30 58 03.0 | /           | /           | /           | /           |
| 1816 | FRB20240114A      | PT2023_0073 | 2024-06-30 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 1817 | 02524+2046        | PT2023_0068 | 2024-06-30 | 19波束接收机  | all      | spec(W+N) | OnOff             | 517           | /           | /           | 02 55 18.08 | 02 54 53.19 | +20 59 01.1 | +20 58 56.9 |
| 1818 | 3C154             | PT2023_0140 | 2024-06-30 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1344          | 06 13 50.14 | +26 04 36.7 | /           | /           | /           | /           |
| 1819 | 4C31.25           | PT2023_0140 | 2024-06-30 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1344          | 06 44 58.92 | +31 49 58.2 | /           | /           | /           | /           |
| 1820 | 19C120_J0640-0139 | ZD2023_6    | 2024-06-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 06 40 47.00 | /           | -01 39 23.0 | /           |
| 1821 | 19C140_J0719-05   | ZD2023_6    | 2024-06-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 07 19 22.00 | /           | -05 33 28.0 | /           |
| 1822 | C69_J0631+4147    | ZD2023_6    | 2024-06-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 06 32 05.66 | /           | +41 47 35.6 | /           |
| 1823 | C74_J0806-07      | ZD2023_6    | 2024-06-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 06 18.70 | /           | -07 53 20.5 | /           |
| 1824 | 19C110_J0745-04   | ZD2023_6    | 2024-06-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 07 46 52.00 | /           | -04 11 09.0 | /           |
| 1825 | DEC+064039-b      | N2023_1     | 2024-06-30 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 122           | 11 55 00.00 | +06 40 39.3 | 11 55 00.00 | 14 05 00.00 | +06 40 39.3 | +06 40 39.3 |
| 1826 | 3C273_1           | PT2023_0068 | 2024-06-30 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 12 29 06.70 | +02 03 08.6 | /           | /           | /           | /           |
| 1827 | 3C273_2           | PT2023_0068 | 2024-06-30 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 12 29 06.70 | +02 03 08.6 | /           | /           | /           | /           |
| 1828 | 3C273_3           | PT2023_0068 | 2024-06-30 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 12 29 06.70 | +02 03 08.6 | /           | /           | /           | /           |
| 1829 | 3C273_4           | PT2023_0068 | 2024-06-30 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 12 29 06.70 | +02 03 08.6 | /           | /           | /           | /           |
| 1830 | 3C273_5           | PT2023_0068 | 2024-06-30 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 12 29 06.70 | +02 03 08.6 | /           | /           | /           | /           |
| 1831 | C46_J1502+46      | ZD2023_6    | 2024-06-30 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 15 02 19.83 | /           | +46 53 27.4 | /           |
| 1832 | DEC-112250-10     | N2023_1     | 2024-06-30 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1757          | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 1833 | DEC-112250-10     | N2023_1     | 2024-06-30 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 348           | 11 23 00.00 | -11 22 50.7 | /           | /           | /           | /           |
| 1834 | FRB20220912A      | PT2023_0100 | 2024-07-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1882          | 23 09 04.90 | +48 42 25.4 | /           | /           | /           | /           |
| 1835 | J0034-0534        | PT2023_0137 | 2024-07-01 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 565           | /           | /           | 00 34 21.83 | /           | -05 34 36.7 | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1836 | 19C147_J0104                     | ZD2023_6    | 2024-07-01 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 04 41.90 | /           | +60 29 47.1 | /           |
| 1837 | 19C154_0139+61                   | ZD2023_6    | 2024-07-01 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 1838 | DEC-110110-10                    | N2023_1     | 2024-07-01 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 750           | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 1839 | DEC-110110-10                    | N2023_1     | 2024-07-01 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 149           | 11 23 00.00 | -11 01 10.5 | /           | /           | /           | /           |
| 1840 | 3C138_1                          | PT2023_0068 | 2024-07-01 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 1841 | 3C138_2                          | PT2023_0068 | 2024-07-01 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 1842 | 3C138_3                          | PT2023_0068 | 2024-07-01 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 1843 | 3C138_4                          | PT2023_0068 | 2024-07-01 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 05 21 09.89 | +16 38 22.1 | /           | /           | /           | /           |
| 1844 | Dec+1542_09_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-01 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 09 00 00.00 | +15 42 24.3 | /           | /           | /           | /           |
| 1845 | Dec+1542_09_05                   | ZD2023_1_2  | 2024-07-01 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 09 00 00.00 | +15 42 24.3 | /           | /           | /           | /           |
| 1846 | DEC-103930-10                    | N2023_1     | 2024-07-01 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1679          | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 1847 | DEC-103930-10                    | N2023_1     | 2024-07-01 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 332           | 11 23 00.00 | -10 39 30.3 | /           | /           | /           | /           |
| 1848 | G48.0+2.0                        | PT2023_0027 | 2024-07-02 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 19 12 08.42 | +14 18 29.9 | /           | /           | /           | /           |
| 1849 | G48.0+0.0_DE                     | PT2023_0027 | 2024-07-02 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 949           | 19 19 25.96 | +13 22 39.3 | 19 16 25.96 | 19 22 25.96 | +12 07 39.3 | +14 37 39.3 |
| 1850 | J1924+3329                       | PT2023_0027 | 2024-07-02 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 19 24 17.48 | 19 25 17.48 | +33 29 29.7 | +33 29 29.7 |
| 1851 | 22134+0043                       | PT2023_0068 | 2024-07-02 | 19波束接收机  | all      | spec(W+N) | OnOff             | 236           | /           | /           | 22 16 02.35 | 22 15 39.11 | +00 58 10.1 | +00 58 05.9 |
| 1852 | 19C154_0139+61                   | ZD2023_6    | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 01 39 58.41 | /           | +61 59 29.8 | /           |
| 1853 | C10_J0209+2621                   | ZD2023_6    | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 09 00.00 | /           | +26 21 22.0 | /           |
| 1854 | 19C138_J0210+32                  | ZD2023_6    | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 10 09.00 | /           | +32 11 23.0 | /           |
| 1855 | 19C152_J0231+62                  | ZD2023_6    | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 02 31 47.57 | /           | +62 54 29.9 | /           |
| 1856 | DEC-095609-10                    | N2023_1     | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 370           | 11 23 00.00 | -09 56 09.9 | /           | /           | /           | /           |
| 1857 | DEC-095609-10                    | N2023_1     | 2024-07-02 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 74            | 11 23 00.00 | -09 56 09.9 | /           | /           | /           | /           |
| 1858 | G163.99+2.03                     | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 05 09 44.31 | +43 22 51.5 | /           | /           | /           | /           |
| 1859 | G163.99+2.03                     | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 09 44.31 | +43 22 51.5 | /           | /           | /           | /           |
| 1860 | G166.58+1.95                     | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 17 34.37 | +41 13 50.8 | /           | /           | /           | /           |
| 1861 | G166.58+1.95                     | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 17 34.37 | +41 13 50.8 | /           | /           | /           | /           |
| 1862 | G168.44+1.95                     | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 23 08.91 | +39 42 19.3 | /           | /           | /           | /           |
| 1863 | G168.44+1.95                     | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 23 08.91 | +39 42 19.3 | /           | /           | /           | /           |
| 1864 | G171.03+1.86                     | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 30 10.93 | +37 30 24.4 | /           | /           | /           | /           |
| 1865 | G171.03+1.86                     | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 30 10.93 | +37 30 24.4 | /           | /           | /           | /           |
| 1866 | J0520+3722g                      | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 1867 | J0520+3722g                      | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 1868 | J0528+3529g                      | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | psr(2k)   | Tracking          | 540           | 05 28 28.90 | +35 29 28.0 | /           | /           | /           | /           |
| 1869 | J0528+3529g                      | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | spec(F)   | Tracking          | 54            | 05 28 28.90 | +35 29 28.0 | /           | /           | /           | /           |
| 1870 | 3C154                            | PT2023_0140 | 2024-07-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1344          | 06 13 50.14 | +26 04 36.7 | /           | /           | /           | /           |
| 1871 | 4C31.25                          | PT2023_0140 | 2024-07-02 | 19波束接收机  | all      | psr(4k)   | Tracking          | 1433          | 06 44 58.92 | +31 49 58.2 | /           | /           | /           | /           |
| 1872 | DEC-101750-10                    | N2023_1     | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1052          | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 1873 | DEC-101750-10                    | N2023_1     | 2024-07-02 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 208           | 11 23 00.00 | -10 17 50.1 | /           | /           | /           | /           |
| 1874 | 12032-1707                       | PT2023_0068 | 2024-07-02 | 19波束接收机  | all      | spec(W+N) | OnOff             | 517           | /           | /           | 12 05 48.25 | 12 05 23.97 | +16 51 06.5 | +16 51 02.3 |
| 1875 | DEC+070219-c                     | N2023_1     | 2024-07-02 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 13 00 00.00 | +07 02 19.5 | 13 00 00.00 | 15 00 00.00 | +07 02 19.5 | +07 02 19.5 |
| 1876 | DEC-091249-10                    | N2023_1     | 2024-07-02 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 817           | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1877 | DEC-091249-10                    | N2023_1     | 2024-07-02 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 162           | 11 23 00.00 | -09 12 49.5 | /           | /           | /           | /           |
| 1878 | G34.74+8.90                      | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 18 22 57.01 | +05 38 35.4 | /           | /           | /           | /           |
| 1879 | G34.74+8.90                      | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 22 57.01 | +05 38 35.4 | /           | /           | /           | /           |
| 1880 | G36.55+5.25                      | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 18 39 16.52 | +05 36 34.2 | /           | /           | /           | /           |
| 1881 | G36.55+5.25                      | ZD2023_2    | 2024-07-02 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 39 16.52 | +05 36 34.2 | /           | /           | /           | /           |
| 1882 | J182346+004835                   | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 18 23 46.11 | /           | +00 48 35.3 | /           |
| 1883 | J182346+004835                   | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 18 23 46.11 | /           | +00 48 35.3 | /           |
| 1884 | J1853-0003                       | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(2k)   | Tracking          | 5364          | 18 53 23.03 | -00 04 33.4 | /           | /           | /           | /           |
| 1885 | J1853-0003                       | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | Tracking          | 532           | 18 53 23.03 | -00 04 33.4 | /           | /           | /           | /           |
| 1886 | G54.21-2.80                      | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 41 59.87 | +17 28 53.4 | /           | /           | /           | /           |
| 1887 | G54.21-2.80                      | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 41 59.87 | +17 28 53.4 | /           | /           | /           | /           |
| 1888 | G54.90-3.30                      | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 45 16.49 | +17 49 22.9 | /           | /           | /           | /           |
| 1889 | G54.90-3.30                      | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 45 16.49 | +17 49 22.9 | /           | /           | /           | /           |

| ID   | source_name     | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|-----------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1890 | J194459+193430  | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 19 44 59.49 | /           | +19 34 30.4 | /           |
| 1891 | J194459+193430  | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 19 44 59.49 | /           | +19 34 30.4 | /           |
| 1892 | C49_J2129+41    | ZD2023_6    | 2024-07-03 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 627           | /           | /           | 21 29 19.31 | /           | +41 04 39.6 | /           |
| 1893 | Z2134+0043      | PT2023_0068 | 2024-07-03 | 19波束接收机  | all      | spec(W+N) | OnOff             | 236           | /           | /           | 22 16 02.35 | 22 15 39.11 | +00 58 10.1 | +00 58 05.9 |
| 1894 | C25_J2129+4119  | ZD2023_6    | 2024-07-03 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 806           | /           | /           | 21 29 21.46 | /           | +41 19 55.0 | /           |
| 1895 | G171.72-1.86    | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 05 16 50.97 | +34 50 11.2 | /           | /           | /           | /           |
| 1896 | G171.72-1.86    | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 16 50.97 | +34 50 11.2 | /           | /           | /           | /           |
| 1897 | G172.11+1.53    | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 31 43.11 | +36 25 17.4 | /           | /           | /           | /           |
| 1898 | G172.11+1.53    | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 31 43.11 | +36 25 17.4 | /           | /           | /           | /           |
| 1899 | G207.43-1.69    | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 35 19.96 | +04 07 10.8 | /           | /           | /           | /           |
| 1900 | G207.43-1.69    | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 35 19.96 | +04 07 10.8 | /           | /           | /           | /           |
| 1901 | G211.83+1.02    | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 53 02.96 | +01 26 37.3 | /           | /           | /           | /           |
| 1902 | G211.83+1.02    | ZD2023_2    | 2024-07-03 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 53 02.96 | +01 26 37.3 | /           | /           | /           | /           |
| 1903 | FRB121102       | PT2023_0073 | 2024-07-03 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 1904 | DEC+055718-b    | N2023_1     | 2024-07-03 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 08 00 00.00 | +05 57 18.9 | 08 00 00.00 | 10 00 00.00 | +05 57 18.9 | +05 57 18.9 |
| 1905 | 19C136_J1048+53 | ZD2023_6    | 2024-07-03 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 1906 | DEC+072359-a    | N2023_1     | 2024-07-03 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 10 00 00.00 | +07 23 59.7 | 10 00 00.00 | 12 00 00.00 | +07 23 59.7 | +07 23 59.7 |
| 1907 | DEC-070248-6    | N2023_1     | 2024-07-03 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | -07 02 48.3 | /           | /           | /           | /           |
| 1908 | DEC-070248-6    | N2023_1     | 2024-07-03 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | -07 02 48.3 | /           | /           | /           | /           |
| 1909 | PSRJ1740+1000   | PT2023_0105 | 2024-07-03 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 3386          | /           | /           | 17 40 25.95 | /           | +10 00 06.3 | /           |
| 1910 | J1840+03        | PT2023_0079 | 2024-07-04 | 19波束接收机  | all      | psr(4k)   | TrackingWithAngle | 362           | 18 40 14.31 | +03 23 16.4 | /           | /           | /           | /           |
| 1911 | J1944+16        | PT2023_0079 | 2024-07-04 | 19波束接收机  | all      | psr(4k)   | TrackingWithAngle | 362           | 19 44 15.69 | +16 54 39.9 | /           | /           | /           | /           |
| 1912 | G50.0+2.0       | PT2023_0027 | 2024-07-04 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 19 15 58.74 | +16 04 46.6 | /           | /           | /           | /           |
| 1913 | G50.0+0.0_RA    | PT2023_0027 | 2024-07-04 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 1151          | 19 23 18.99 | +15 08 32.5 | 19 19 18.99 | 19 27 18.99 | +14 08 32.5 | +16 08 32.5 |
| 1914 | J1924+3329      | PT2023_0027 | 2024-07-04 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 19 24 17.48 | 19 25 17.48 | +33 29 29.7 | +33 29 29.7 |
| 1915 | DEC+051358-d    | N2023_1     | 2024-07-04 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 253           | 12 00 00.00 | +05 13 58.5 | 12 00 00.00 | 14 00 00.00 | +05 13 58.5 | +05 13 58.5 |
| 1916 | DEC-095609-8    | N2023_1     | 2024-07-04 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 762           | 11 23 00.00 | -09 56 09.9 | /           | /           | /           | /           |
| 1917 | DEC-095609-8    | N2023_1     | 2024-07-04 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 151           | 11 23 00.00 | -09 56 09.9 | /           | /           | /           | /           |
| 1918 | SGR_J1935+2154  | PT2023_0003 | 2024-07-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 19 34 56.00 | +21 53 47.8 | /           | /           | /           | /           |
| 1919 | G32.94+6.10     | ZD2023_2    | 2024-07-04 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 18 29 42.57 | +02 46 48.4 | /           | /           | /           | /           |
| 1920 | G32.94+6.10     | ZD2023_2    | 2024-07-04 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 18 29 42.57 | +02 46 48.4 | /           | /           | /           | /           |
| 1921 | G34.70+5.25     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 35 55.09 | +03 57 29.5 | /           | /           | /           | /           |
| 1922 | G34.70+5.25     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 35 55.09 | +03 57 29.5 | /           | /           | /           | /           |
| 1923 | G43.06-2.80     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 20 04.57 | +07 42 20.6 | /           | /           | /           | /           |
| 1924 | G43.06-2.80     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 20 04.57 | +07 42 20.6 | /           | /           | /           | /           |
| 1925 | G43.45-2.63     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 20 12.55 | +08 07 49.7 | /           | /           | /           | /           |
| 1926 | G43.45-2.63     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 20 12.55 | +08 07 49.7 | /           | /           | /           | /           |
| 1927 | G58.81-1.61     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 47 22.24 | +22 03 19.8 | /           | /           | /           | /           |
| 1928 | G58.81-1.61     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 47 22.24 | +22 03 19.8 | /           | /           | /           | /           |
| 1929 | G59.20-1.44     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 47 35.39 | +22 28 43.7 | /           | /           | /           | /           |
| 1930 | G59.20-1.44     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 47 35.39 | +22 28 43.7 | /           | /           | /           | /           |
| 1931 | G84.74+0.76     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 20 48 30.33 | +44 52 01.6 | /           | /           | /           | /           |
| 1932 | G84.74+0.76     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 48 30.33 | +44 52 01.6 | /           | /           | /           | /           |
| 1933 | G85.28-1.02     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 20 58 05.80 | +44 08 18.2 | /           | /           | /           | /           |
| 1934 | G85.28-1.02     | ZD2023_2    | 2024-07-05 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 58 05.80 | +44 08 18.2 | /           | /           | /           | /           |
| 1935 | M87             | PT2023_0209 | 2024-07-05 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 2258          | 12 30 49.00 | +12 23 28.0 | /           | /           | /           | /           |
| 1936 | J1404+0907      | PT2023_0114 | 2024-07-05 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 25022         | /           | /           | 14 04 36.00 | /           | +09 07 22.0 | /           |
| 1937 | DEC-091249-d    | N2023_1     | 2024-07-05 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 166           | 15 45 00.00 | -09 12 49.5 | 15 45 00.00 | 17 00 00.00 | -09 12 49.5 | -09 12 49.5 |
| 1938 | J1924+3329      | PT2023_0027 | 2024-07-05 | 19波束接收机  | beam1    | spec(F)   | OnOff             | 6             | /           | /           | 19 24 17.48 | 19 25 17.48 | +33 29 29.7 | +33 29 29.7 |
| 1939 | G50.0+0.0_DE    | PT2023_0027 | 2024-07-05 | 19波束接收机  | all      | spec(F)   | MultiBeamOTF      | 949           | 19 23 18.99 | +15 08 32.5 | 19 20 18.99 | 19 26 18.99 | +13 53 32.5 | +16 23 32.5 |
| 1940 | G50.0+2.0       | PT2023_0027 | 2024-07-06 | 19波束接收机  | all      | spec(F)   | TrackingWithAngle | 178           | 19 15 58.74 | +16 04 46.6 | /           | /           | /           | /           |
| 1941 | J1832-0454      | PT2023_0114 | 2024-07-06 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 19661         | /           | /           | 18 32 34.00 | /           | -04 54 33.0 | /           |
| 1942 | FRB20230104A    | PT2023_0157 | 2024-07-06 | 19波束接收机  | all      | psr(4k)   | Tracking          | 12514         | 02 15 44.00 | +27 36 37.0 | /           | /           | /           | /           |
| 1943 | FRB20211103A    | PT2023_0157 | 2024-07-06 | 19波束接收机  | all      | psr(4k)   | Tracking          | 12514         | 04 19 16.00 | -05 34 21.0 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1944 | Dec+0010_04_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-06 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 04 00 00.00 | +00 10 35.7 | /           | /           | /           | /           |
| 1945 | Dec+0010_04_05                   | ZD2023_1_2  | 2024-07-06 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 04 00 00.00 | +00 10 35.7 | /           | /           | /           | /           |
| 1946 | C74_J0806-07                     | ZD2023_6    | 2024-07-06 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 08 06 18.70 | /           | -07 53 20.5 | /           |
| 1947 | DEC+053538-b                     | N2023_1     | 2024-07-06 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 08 00 00.00 | +05 35 38.7 | 08 00 00.00 | 10 00 00.00 | +05 35 38.7 | +05 35 38.7 |
| 1948 | DEC-070248-7                     | N2023_1     | 2024-07-06 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1791          | 11 23 00.00 | -07 02 48.3 | /           | /           | /           | /           |
| 1949 | DEC-070248-7                     | N2023_1     | 2024-07-06 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 354           | 11 23 00.00 | -07 02 48.3 | /           | /           | /           | /           |
| 1950 | DEC-061927-c                     | N2023_1     | 2024-07-06 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 15 00 00.00 | -06 19 27.9 | 15 00 00.00 | 17 00 00.00 | -06 19 27.9 | -06 19 27.9 |
| 1951 | G30.64+8.73                      | ZD2023_2    | 2024-07-06 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 16 11.62 | +01 56 42.0 | /           | /           | /           | /           |
| 1952 | G30.64+8.73                      | ZD2023_2    | 2024-07-06 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 16 11.62 | +01 56 42.0 | /           | /           | /           | /           |
| 1953 | G29.02+7.63                      | ZD2023_2    | 2024-07-06 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 17 10.86 | +00 01 12.3 | /           | /           | /           | /           |
| 1954 | G29.02+7.63                      | ZD2023_2    | 2024-07-06 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 17 10.86 | +00 01 12.3 | /           | /           | /           | /           |
| 1955 | G62.87+1.36                      | ZD2023_2    | 2024-07-07 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 45 03.42 | +27 03 19.0 | /           | /           | /           | /           |
| 1956 | G62.87+1.36                      | ZD2023_2    | 2024-07-07 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 45 03.42 | +27 03 19.0 | /           | /           | /           | /           |
| 1957 | G92.42-0.34                      | ZD2023_2    | 2024-07-07 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 23 49.70 | +49 49 10.4 | /           | /           | /           | /           |
| 1958 | G92.42-0.34                      | ZD2023_2    | 2024-07-07 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 23 49.70 | +49 49 10.4 | /           | /           | /           | /           |
| 1959 | G91.05-2.54                      | ZD2023_2    | 2024-07-07 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 1345          | 21 27 09.97 | +47 17 07.1 | /           | /           | /           | /           |
| 1960 | G91.05-2.54                      | ZD2023_2    | 2024-07-07 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 266           | 21 27 09.97 | +47 17 07.1 | /           | /           | /           | /           |
| 1961 | FRB20240114A                     | PT2023_0073 | 2024-07-07 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 1962 | PSRJ0002+6216                    | PT2023_0156 | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 10727         | /           | /           | 00 02 58.23 | /           | +62 16 09.6 | /           |
| 1963 | FRB20190628C                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 00 45 48.72 | +48 35 27.6 | /           | /           | /           | /           |
| 1964 | FRB20181231A                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 01 58 41.28 | +21 00 36.0 | /           | /           | /           | /           |
| 1965 | DEC+124902-c                     | N2023_1     | 2024-07-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 01 50 00.00 | +12 49 02.7 | 01 50 00.00 | 03 50 00.00 | +12 49 02.7 | +12 49 02.7 |
| 1966 | 19C121_J0623+00                  | ZD2023_6    | 2024-07-07 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 06 23 49.00 | /           | +00 51 54.0 | /           |
| 1967 | DEC+611249-9                     | N2023_1     | 2024-07-07 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 448           | 11 23 00.00 | +61 12 49.5 | /           | /           | /           | /           |
| 1968 | DEC+611249-9                     | N2023_1     | 2024-07-07 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 89            | 11 23 00.00 | +61 12 49.5 | /           | /           | /           | /           |
| 1969 | J0613-0200                       | PT2023_0109 | 2024-07-07 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1317          | 06 13 43.98 | -02 00 47.2 | /           | /           | /           | /           |
| 1970 | FRB20190103C                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 06 56 09.60 | +11 02 04.9 | /           | /           | /           | /           |
| 1971 | FRB20190322A                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 07 22 15.36 | +51 10 33.6 | /           | /           | /           | /           |
| 1972 | FRB20181229A                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 09 08 45.93 | +41 57 59.4 | /           | /           | /           | /           |
| 1973 | FRB20190411B                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 10 16 24.48 | +29 19 01.2 | /           | /           | /           | /           |
| 1974 | VT1137-0337                      | PT2023_0078 | 2024-07-07 | 19波束接收机  | all      | psr(2k)   | Tracking          | 9152          | 11 37 06.19 | -03 37 37.3 | /           | /           | /           | /           |
| 1975 | FRB20190212C                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 11 29 49.24 | +28 08 45.6 | /           | /           | /           | /           |
| 1976 | FRB20190130B                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 11 34 50.90 | +16 03 09.7 | /           | /           | /           | /           |
| 1977 | DEC-091249-c                     | N2023_1     | 2024-07-07 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 13 50 00.00 | -09 12 49.5 | 13 50 00.00 | 15 50 00.00 | -09 12 49.5 | -09 12 49.5 |
| 1978 | FRB20190111B                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 17 19 58.29 | +13 32 36.2 | /           | /           | /           | /           |
| 1979 | FRB20190623A                     | ZD2023_5    | 2024-07-07 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 18 02 16.65 | +24 29 42.0 | /           | /           | /           | /           |
| 1980 | 19C46_J1813-0852                 | ZD2023_6    | 2024-07-07 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 18 13 35.06 | /           | -08 52 18.8 | /           |
| 1981 | DEC-072428-6                     | N2023_1     | 2024-07-08 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1064          | 11 23 00.00 | -07 24 28.5 | /           | /           | /           | /           |
| 1982 | DEC-072428-6                     | N2023_1     | 2024-07-08 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 211           | 11 23 00.00 | -07 24 28.5 | /           | /           | /           | /           |
| 1983 | G180.33-7.79                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 05 17 09.36 | +24 24 38.3 | /           | /           | /           | /           |
| 1984 | G180.33-7.79                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 17 09.36 | +24 24 38.3 | /           | /           | /           | /           |
| 1985 | G183.75-7.12                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 05 27 49.83 | +21 58 01.4 | /           | /           | /           | /           |
| 1986 | G183.75-7.12                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 27 49.83 | +21 58 01.4 | /           | /           | /           | /           |
| 1987 | G176.02+3.22                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 05 48 53.98 | +34 00 10.8 | /           | /           | /           | /           |
| 1988 | G176.02+3.22                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 48 53.98 | +34 00 10.8 | /           | /           | /           | /           |
| 1989 | G173.97+7.96                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 04 18.06 | +38 07 40.7 | /           | /           | /           | /           |
| 1990 | G173.97+7.96                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 04 18.06 | +38 07 40.7 | /           | /           | /           | /           |
| 1991 | G175.49+8.22                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 06 09 00.15 | +36 55 26.2 | /           | /           | /           | /           |
| 1992 | G175.49+8.22                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 09 00.15 | +36 55 26.2 | /           | /           | /           | /           |
| 1993 | G210.51-0.76                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 44 18.16 | +01 48 26.6 | /           | /           | /           | /           |
| 1994 | G210.51-0.76                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 44 18.16 | +01 48 26.6 | /           | /           | /           | /           |
| 1995 | G212.71-1.02                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 47 24.94 | -00 16 01.5 | /           | /           | /           | /           |
| 1996 | G212.71-1.02                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 47 24.94 | -00 16 01.5 | /           | /           | /           | /           |
| 1997 | G211.39+0.42                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 50 08.05 | +01 33 54.5 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1998 | G211.39+0.42                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 50 08.05 | +01 33 54.5 | /           | /           | /           | /           |
| 1999 | G210.46+2.03                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 54 10.60 | +03 07 32.4 | /           | /           | /           | /           |
| 2000 | G210.46+2.03                     | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 54 10.60 | +03 07 32.4 | /           | /           | /           | /           |
| 2001 | DEC+594608-12                    | N2023_1     | 2024-07-08 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1343          | 11 23 00.00 | +59 46 08.7 | /           | /           | /           | /           |
| 2002 | DEC+594608-12                    | N2023_1     | 2024-07-08 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 266           | 11 23 00.00 | +59 46 08.7 | /           | /           | /           | /           |
| 2003 | FRB20190621B                     | ZD2023_5    | 2024-07-08 | 19波束接收机  | all      | psr(4k)   | Tracking          | 2682          | 12 51 21.12 | +55 37 15.6 | /           | /           | /           | /           |
| 2004 | DEC-072428-7                     | N2023_1     | 2024-07-08 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 762           | 11 23 00.00 | -07 24 28.5 | /           | /           | /           | /           |
| 2005 | DEC-072428-7                     | N2023_1     | 2024-07-08 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 151           | 11 23 00.00 | -07 24 28.5 | /           | /           | /           | /           |
| 2006 | DEC+055718-e                     | N2023_1     | 2024-07-08 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 14 00 00.00 | +05 57 18.9 | 14 00 00.00 | 16 00 00.00 | +05 57 18.9 | +05 57 18.9 |
| 2007 | J1832-0455                       | PT2023_0114 | 2024-07-08 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 7499          | /           | /           | 18 32 38.00 | /           | -04 55 05.0 | /           |
| 2008 | J1943+2210                       | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 21862         | /           | /           | 19 43 53.78 | /           | +22 10 34.0 | /           |
| 2009 | J1943+2210                       | ZD2023_2    | 2024-07-08 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 2165          | /           | /           | 19 43 53.78 | /           | +22 10 34.0 | /           |
| 2010 | FRB20190627D                     | ZD2023_5    | 2024-07-09 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 3575          | 19 41 43.44 | +43 51 21.6 | /           | /           | /           | /           |
| 2011 | C41_2359+4238                    | ZD2023_6    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 985           | /           | /           | 23 59 19.10 | /           | +42 38 55.2 | /           |
| 2012 | M31_RArm_3                       | ZD2023_4_2  | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | Tracking          | 6478          | 00 40 23.57 | +40 40 20.6 | /           | /           | /           | /           |
| 2013 | G171.33-2.03                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 05 15 04.11 | +35 03 23.7 | /           | /           | /           | /           |
| 2014 | G171.33-2.03                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 05 15 04.11 | +35 03 23.7 | /           | /           | /           | /           |
| 2015 | G151.66+1.53                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 19 15.87 | +52 23 55.5 | /           | /           | /           | /           |
| 2016 | G151.66+1.53                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 19 15.87 | +52 23 55.5 | /           | /           | /           | /           |
| 2017 | G152.05+1.69                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 21 51.77 | +52 14 36.8 | /           | /           | /           | /           |
| 2018 | G152.05+1.69                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 21 51.77 | +52 14 36.8 | /           | /           | /           | /           |
| 2019 | G154.70+2.03                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 04 35 08.10 | +50 34 09.0 | /           | /           | /           | /           |
| 2020 | G154.70+2.03                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 04 35 08.10 | +50 34 09.0 | /           | /           | /           | /           |
| 2021 | G205.96-1.53                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 33 13.62 | +05 30 00.1 | /           | /           | /           | /           |
| 2022 | G205.96-1.53                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 33 13.62 | +05 30 00.1 | /           | /           | /           | /           |
| 2023 | G207.77-1.95                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 35 03.48 | +03 41 56.0 | /           | /           | /           | /           |
| 2024 | G207.77-1.95                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 35 03.48 | +03 41 56.0 | /           | /           | /           | /           |
| 2025 | G210.41-1.61                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 41 06.48 | +01 30 26.3 | /           | /           | /           | /           |
| 2026 | G210.41-1.61                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 41 06.48 | +01 30 26.3 | /           | /           | /           | /           |
| 2027 | G210.90-0.59                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 45 37.25 | +01 32 11.8 | /           | /           | /           | /           |
| 2028 | G210.90-0.59                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 45 37.25 | +01 32 11.8 | /           | /           | /           | /           |
| 2029 | G211.88+1.44                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 54 38.85 | +01 35 35.5 | /           | /           | /           | /           |
| 2030 | G211.88+1.44                     | ZD2023_2    | 2024-07-09 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 54 38.85 | +01 35 35.5 | /           | /           | /           | /           |
| 2031 | Dec+6029_08_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-09 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 08 00 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 2032 | Dec+6029_08_05                   | ZD2023_1_2  | 2024-07-09 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 08 00 00.00 | +60 29 29.1 | /           | /           | /           | /           |
| 2033 | DEC-074608-6                     | N2023_1     | 2024-07-09 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1813          | 11 23 00.00 | -07 46 08.7 | /           | /           | /           | /           |
| 2034 | DEC-074608-6                     | N2023_1     | 2024-07-09 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 359           | 11 23 00.00 | -07 46 08.7 | /           | /           | /           | /           |
| 2035 | NGC6171                          | PT2023_0092 | 2024-07-09 | 19波束接收机  | all      | seti      | MultiBeamOTF      | 2908          | 16 32 31.86 | -13 03 13.6 | 16 33 45.77 | 16 31 17.95 | -13 03 13.6 | -13 06 11.5 |
| 2036 | NGC6218                          | PT2023_0092 | 2024-07-09 | 19波束接收机  | all      | seti      | MultiBeamOTF      | 3174          | 16 47 14.18 | -01 56 54.7 | 16 48 35.23 | 16 45 53.13 | -01 56 54.7 | -01 59 52.6 |
| 2037 | NGC6254                          | PT2023_0092 | 2024-07-09 | 19波束接收机  | all      | seti      | MultiBeamOTF      | 3231          | 16 57 09.05 | -04 06 01.1 | 16 58 31.46 | 16 55 46.64 | -04 06 01.1 | -04 08 59.0 |
| 2038 | IC1276                           | PT2023_0092 | 2024-07-09 | 19波束接收机  | all      | seti      | MultiBeamOTF      | 3554          | 18 10 44.20 | -07 12 27.4 | 18 12 15.38 | 18 09 13.14 | -07 12 27.3 | -07 15 25.2 |
| 2039 | NGC6838                          | PT2023_0092 | 2024-07-10 | 19波束接收机  | all      | seti      | MultiBeamOTF      | 2775          | 19 53 46.49 | +18 46 45.1 | 19 54 56.62 | 19 52 36.36 | +18 46 45.1 | +18 43 47.2 |
| 2040 | J1855-0756                       | PT2023_0110 | 2024-07-10 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | 18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 2041 | G44.04-3.98                      | ZD2023_2    | 2024-07-10 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 26 09.37 | +08 00 41.1 | /           | /           | /           | /           |
| 2042 | G44.04-3.98                      | ZD2023_2    | 2024-07-10 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 26 09.37 | +08 00 41.1 | /           | /           | /           | /           |
| 2043 | G56.81-2.88                      | ZD2023_2    | 2024-07-10 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 47 45.25 | +19 41 03.1 | /           | /           | /           | /           |
| 2044 | G56.81-2.88                      | ZD2023_2    | 2024-07-10 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 47 45.25 | +19 41 03.1 | /           | /           | /           | /           |
| 2045 | G86.65+1.19                      | ZD2023_2    | 2024-07-10 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 53 35.17 | +46 36 30.5 | /           | /           | /           | /           |
| 2046 | G86.65+1.19                      | ZD2023_2    | 2024-07-10 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 53 35.17 | +46 36 30.5 | /           | /           | /           | /           |
| 2047 | G87.38+1.10                      | ZD2023_2    | 2024-07-10 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 20 56 44.14 | +47 06 50.1 | /           | /           | /           | /           |
| 2048 | G87.38+1.10                      | ZD2023_2    | 2024-07-10 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 56 44.14 | +47 06 50.1 | /           | /           | /           | /           |
| 2049 | J2053+4650                       | PT2023_0015 | 2024-07-10 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 603           | /           | /           | 20 53 52.60 | /           | +46 50 51.7 | /           |
| 2050 | 1784473016438653056              | PT2023_0092 | 2024-07-10 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 21 29 37.92 | +17 38 41.6 | /           | /           | /           | /           |
| 2051 | 1934263333784036736              | PT2023_0092 | 2024-07-10 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 22 46 48.72 | +44 19 55.2 | /           | /           | /           | /           |

| ID   | source_name         | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|---------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2052 | 2828928008202069376 | PT2023_0092 | 2024-07-10 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 22 56 33.60 | +16 33 07.9 | /           | /           | /           | /           |
| 2053 | 2739689239311660672 | PT2023_0092 | 2024-07-10 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 23 49 13.44 | +02 23 49.3 | /           | /           | /           | /           |
| 2054 | 2824770686019004032 | PT2023_0092 | 2024-07-10 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 23 31 53.28 | +19 56 14.2 | /           | /           | /           | /           |
| 2055 | 19C89_J2329+2653    | ZD2023_6    | 2024-07-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 23 29 51.00 | /           | +26 53 59.0 | /           |
| 2056 | DEC+095541-b        | N2023_1     | 2024-07-10 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 01 55 00.00 | +09 55 41.1 | 01 55 00.00 | 03 55 00.00 | +09 55 41.1 | +09 55 41.1 |
| 2057 | FRB121102           | PT2023_0073 | 2024-07-10 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 2058 | J0500a              | PT2023_0213 | 2024-07-10 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 8955          | 05 00 02.40 | +44 55 12.0 | /           | /           | /           | /           |
| 2059 | J0709+0458          | PT2023_0050 | 2024-07-10 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 1129          | 07 09 08.36 | +04 58 51.5 | /           | /           | /           | /           |
| 2060 | DEC+590248-13       | N2023_1     | 2024-07-10 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 3358          | 11 23 00.00 | +59 02 48.3 | /           | /           | /           | /           |
| 2061 | DEC+590248-13       | N2023_1     | 2024-07-10 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 664           | 11 23 00.00 | +59 02 48.3 | /           | /           | /           | /           |
| 2062 | DEC-074608-7        | N2023_1     | 2024-07-10 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1668          | 11 23 00.00 | -07 46 08.7 | /           | /           | /           | /           |
| 2063 | DEC-074608-7        | N2023_1     | 2024-07-10 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 330           | 11 23 00.00 | -07 46 08.7 | /           | /           | /           | /           |
| 2064 | 4293318823182081408 | PT2023_0092 | 2024-07-10 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 19 16 54.72 | +05 09 47.3 | /           | /           | /           | /           |
| 2065 | J175945.6           | PT2023_0213 | 2024-07-10 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 360           | 17 59 45.67 | +50 36 56.9 | /           | /           | /           | /           |
| 2066 | 19C27_J1759-12      | ZD2023_6    | 2024-07-10 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 17 59 56.30 | /           | -12 47 52.1 | /           |
| 2067 | C52_J1929+4104      | ZD2023_6    | 2024-07-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 2068 | 19C30_1912-12       | ZD2023_6    | 2024-07-11 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 449           | /           | /           | 19 12 29.00 | /           | -12 15 26.0 | /           |
| 2069 | J1954+2529          | PT2023_0138 | 2024-07-11 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 1129          | /           | /           | 19 54 19.71 | /           | +25 29 27.3 | /           |
| 2070 | M31_RArm_4          | ZD2023_4_2  | 2024-07-11 | 19波束接收机  | all      | psr(1k)   | Tracking          | 6478          | 00 40 17.57 | +40 42 56.5 | /           | /           | /           | /           |
| 2071 | G164.63-2.12        | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 54 12.13 | +40 20 05.3 | /           | /           | /           | /           |
| 2072 | G164.63-2.12        | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 54 12.13 | +40 20 05.3 | /           | /           | /           | /           |
| 2073 | G172.45+1.27        | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 31 35.58 | +35 59 45.2 | /           | /           | /           | /           |
| 2074 | G172.45+1.27        | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 31 35.58 | +35 59 45.2 | /           | /           | /           | /           |
| 2075 | J0528+3529g         | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 05 28 28.90 | +35 29 28.0 | /           | /           | /           | /           |
| 2076 | J0528+3529g         | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 05 28 28.90 | +35 29 28.0 | /           | /           | /           | /           |
| 2077 | J0520+3722g         | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 2078 | J0520+3722g         | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 2079 | J0500b              | PT2023_0213 | 2024-07-11 | 19波束接收机  | all      | psr(4k)   | SnapShot          | 8955          | 05 02 01.70 | +44 59 30.1 | /           | /           | /           | /           |
| 2080 | 3187115498866675456 | PT2023_0092 | 2024-07-11 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 05 01 56.85 | -06 56 54.6 | /           | /           | /           | /           |
| 2081 | 3209938366665770752 | PT2023_0092 | 2024-07-11 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 05 31 28.17 | -03 41 10.4 | /           | /           | /           | /           |
| 2082 | 3316364602541746048 | PT2023_0092 | 2024-07-11 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 06 00 03.81 | +02 42 22.9 | /           | /           | /           | /           |
| 2083 | 3340477717172813568 | PT2023_0092 | 2024-07-11 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 05 42 11.37 | +12 28 57.3 | /           | /           | /           | /           |
| 2084 | 3136952686035250688 | PT2023_0092 | 2024-07-11 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 07 44 39.84 | +03 33 01.9 | /           | /           | /           | /           |
| 2085 | 660597997697274752  | PT2023_0092 | 2024-07-11 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 08 58 14.16 | +19 45 45.3 | /           | /           | /           | /           |
| 2086 | 685103912857072640  | PT2023_0092 | 2024-07-11 | 19波束接收机  | all      | seti      | Tracking          | 2072          | 09 00 23.04 | +21 49 55.5 | /           | /           | /           | /           |
| 2087 | DEC+175225-d        | N2023_1     | 2024-07-11 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 09 30 00.00 | +17 52 25.5 | 09 30 00.00 | 11 30 00.00 | +17 52 25.5 | +17 52 25.5 |
| 2088 | DEC+194046-d        | N2023_1     | 2024-07-11 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 20 00.00 | +19 40 46.5 | 11 20 00.00 | 13 20 00.00 | +19 40 46.5 | +19 40 46.5 |
| 2089 | DEC-085109-6        | N2023_1     | 2024-07-11 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2149          | 11 23 00.00 | -08 51 09.3 | /           | /           | /           | /           |
| 2090 | DEC-085109-6        | N2023_1     | 2024-07-11 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 425           | 11 23 00.00 | -08 51 09.3 | /           | /           | /           | /           |
| 2091 | G33.72+9.66         | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 18 23.07 | +05 04 45.7 | /           | /           | /           | /           |
| 2092 | G33.72+9.66         | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 18 23.07 | +05 04 45.7 | /           | /           | /           | /           |
| 2093 | G31.86+6.44         | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 18 26 33.26 | +01 58 52.9 | /           | /           | /           | /           |
| 2094 | G31.86+6.44         | ZD2023_2    | 2024-07-11 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 18 26 33.26 | +01 58 52.9 | /           | /           | /           | /           |
| 2095 | G41.54+3.39         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 55 02.92 | +09 12 24.1 | /           | /           | /           | /           |
| 2096 | G41.54+3.39         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 55 02.92 | +09 12 24.1 | /           | /           | /           | /           |
| 2097 | G44.14+3.30         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 00 07.82 | +11 28 29.1 | /           | /           | /           | /           |
| 2098 | G44.14+3.30         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 00 07.82 | +11 28 29.1 | /           | /           | /           | /           |
| 2099 | G67.71+1.44         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(2k)   | SnapShotZCal      | 7879          | 19 56 00.83 | +31 15 57.0 | /           | /           | /           | /           |
| 2100 | G67.71+1.44         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 19 56 00.83 | +31 15 57.0 | /           | /           | /           | /           |
| 2101 | G78.57-1.10         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 20 36 00.28 | +38 51 43.6 | /           | /           | /           | /           |
| 2102 | G78.57-1.10         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 36 00.28 | +38 51 43.6 | /           | /           | /           | /           |
| 2103 | G94.77-5.76         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 21 56 08.01 | +47 17 43.1 | /           | /           | /           | /           |
| 2104 | G94.77-5.76         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 56 08.01 | +47 17 43.1 | /           | /           | /           | /           |
| 2105 | G93.10-7.29         | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 21 54 09.43 | +45 04 22.4 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2106 | G93.10-7.29                      | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 54 09.43 | +45 04 22.4 | /           | /           | /           | /           |
| 2107 | DEC+122722-a                     | N2023_1     | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 00 10 00.00 | +12 27 22.5 | 00 10 00.00 | 02 10 00.00 | +12 27 22.5 | +12 27 22.5 |
| 2108 | DaviesCloud_OTF_v2-0             | ZD2023_4    | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 242           | 00 37 02.00 | +42 52 03.6 | 00 33 30.00 | 00 40 34.00 | +42 51 46.5 | +42 52 20.7 |
| 2109 | G157.19-2.12                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 27 13.56 | +45 54 28.5 | /           | /           | /           | /           |
| 2110 | G157.19-2.12                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 27 13.56 | +45 54 28.5 | /           | /           | /           | /           |
| 2111 | G174.70-1.78                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 25 20.54 | +32 25 57.5 | /           | /           | /           | /           |
| 2112 | G174.70-1.78                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 25 20.54 | +32 25 57.5 | /           | /           | /           | /           |
| 2113 | G176.56-1.78                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 30 11.39 | +30 53 14.4 | /           | /           | /           | /           |
| 2114 | G176.56-1.78                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 30 11.39 | +30 53 14.4 | /           | /           | /           | /           |
| 2115 | G207.04-1.86                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 34 00.47 | +04 23 20.8 | /           | /           | /           | /           |
| 2116 | G207.04-1.86                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 34 00.47 | +04 23 20.8 | /           | /           | /           | /           |
| 2117 | J064212+023820                   | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 06 42 12.70 | /           | +02 38 20.0 | /           |
| 2118 | J064212+023820                   | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 06 42 12.70 | /           | +02 38 20.0 | /           |
| 2119 | G211.68-0.25                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 48 15.38 | +00 59 41.4 | /           | /           | /           | /           |
| 2120 | G211.68-0.25                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 48 15.38 | +00 59 41.4 | /           | /           | /           | /           |
| 2121 | G211.93+1.86                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 56 14.74 | +01 44 33.5 | /           | /           | /           | /           |
| 2122 | G211.93+1.86                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 56 14.74 | +01 44 33.5 | /           | /           | /           | /           |
| 2123 | G209.34+1.95                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 51 49.44 | +04 05 18.2 | /           | /           | /           | /           |
| 2124 | G209.34+1.95                     | ZD2023_2    | 2024-07-12 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 51 49.44 | +04 05 18.2 | /           | /           | /           | /           |
| 2125 | Dec+6051_08_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-12 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 08 00 00.00 | +60 51 09.3 | /           | /           | /           | /           |
| 2126 | Dec+6051_08_05                   | ZD2023_1_2  | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 08 00 00.00 | +60 51 09.3 | /           | /           | /           | /           |
| 2127 | DEC-080748-6                     | N2023_1     | 2024-07-12 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | -08 07 48.9 | /           | /           | /           | /           |
| 2128 | DEC-080748-6                     | N2023_1     | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | -08 07 48.9 | /           | /           | /           | /           |
| 2129 | J13+36                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 13 24 20.17 | 13 23 21.38 | +36 35 45.9 | +36 35 45.9 |
| 2130 | J13+36                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 13 24 20.17 | 13 23 21.38 | +36 35 45.9 | +36 35 45.9 |
| 2131 | J15+47                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | psr(4k)   | OnOff             | 9741          | /           | /           | 15 12 12.86 | 15 11 03.29 | +47 16 30.7 | +47 16 30.7 |
| 2132 | J15+47                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | OnOff             | 1207          | /           | /           | 15 12 12.86 | 15 11 03.29 | +47 16 30.7 | +47 16 30.7 |
| 2133 | J15+52                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 15 08 40.08 | 15 07 22.62 | +52 27 13.6 | +52 27 13.6 |
| 2134 | J15+52                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 15 08 40.08 | 15 07 22.62 | +52 27 13.6 | +52 27 13.6 |
| 2135 | J16+41                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1880          | /           | /           | 16 05 45.89 | 16 04 43.02 | +41 20 41.1 | +41 20 41.1 |
| 2136 | J16+41                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | OnOff             | 233           | /           | /           | 16 05 45.89 | 16 04 43.02 | +41 20 41.1 | +41 20 41.1 |
| 2137 | J16+20                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | psr(4k)   | OnOff             | 7776          | /           | /           | 16 27 58.29 | 16 27 07.98 | +20 14 44.2 | +20 14 44.2 |
| 2138 | J16+20                           | PT2023_0083 | 2024-07-12 | 19波束接收机  | all      | spec(W+N) | OnOff             | 963           | /           | /           | 16 27 58.29 | 16 27 07.98 | +20 14 44.2 | +20 14 44.2 |
| 2139 | J1918-0642                       | PT2023_0050 | 2024-07-12 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 2258          | 19 18 48.03 | -06 42 34.9 | /           | /           | /           | /           |
| 2140 | J00+15                           | PT2023_0083 | 2024-07-13 | 19波束接收机  | all      | psr(4k)   | OnOff             | 7776          | /           | /           | 00 19 00.32 | 00 18 11.43 | +15 07 11.2 | +15 07 11.2 |
| 2141 | J00+15                           | PT2023_0083 | 2024-07-13 | 19波束接收机  | all      | spec(W+N) | OnOff             | 963           | /           | /           | 00 19 00.32 | 00 18 11.43 | +15 07 11.2 | +15 07 11.2 |
| 2142 | DaviesCloud_OTF_v2-1             | ZD2023_4    | 2024-07-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 352           | 00 38 42.00 | +42 30 24.0 | 00 33 30.00 | 00 43 54.00 | +42 30 06.9 | +42 30 41.1 |
| 2143 | FRB20230104A                     | PT2023_0157 | 2024-07-13 | 19波束接收机  | all      | psr(4k)   | Tracking          | 21448         | 02 15 44.00 | +27 36 37.0 | /           | /           | /           | /           |
| 2144 | DEC+085040-a                     | N2023_1     | 2024-07-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 02 10 00.00 | +08 50 40.5 | 02 10 00.00 | 04 10 00.00 | +08 50 40.5 | +08 50 40.5 |
| 2145 | FRB20211103A                     | PT2023_0157 | 2024-07-13 | 19波束接收机  | all      | psr(4k)   | Tracking          | 21448         | 04 19 16.00 | -05 34 21.0 | /           | /           | /           | /           |
| 2146 | J0613-0200                       | PT2023_0109 | 2024-07-13 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1280          | 06 13 43.98 | -02 00 47.2 | /           | /           | /           | /           |
| 2147 | DEC+651111-10                    | N2023_1     | 2024-07-13 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1343          | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2148 | DEC+651111-10                    | N2023_1     | 2024-07-13 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 266           | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2149 | DEC+200226-d                     | N2023_1     | 2024-07-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 10 30 00.00 | +20 02 26.7 | 10 30 00.00 | 12 30 00.00 | +20 02 26.7 | +20 02 26.7 |
| 2150 | DEC+160404-d                     | N2023_1     | 2024-07-13 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 30 00.00 | +16 04 04.5 | 11 30 00.00 | 13 30 00.00 | +16 04 04.5 | +16 04 04.5 |
| 2151 | DEC-080748-7                     | N2023_1     | 2024-07-13 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1243          | 11 23 00.00 | -08 07 48.9 | /           | /           | /           | /           |
| 2152 | DEC-080748-7                     | N2023_1     | 2024-07-13 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 246           | 11 23 00.00 | -08 07 48.9 | /           | /           | /           | /           |
| 2153 | J1518+4904                       | PT2023_0111 | 2024-07-13 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2074          | /           | /           | 15 18 16.80 | /           | +49 04 34.2 | /           |
| 2154 | J185052+072406                   | ZD2023_2    | 2024-07-13 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1903          | /           | /           | 18 50 52.52 | /           | +07 24 06.1 | /           |
| 2155 | J185052+072406                   | ZD2023_2    | 2024-07-13 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 207           | /           | /           | 18 50 52.52 | /           | +07 24 06.1 | /           |
| 2156 | J181632-003935                   | ZD2023_2    | 2024-07-13 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 18 16 32.00 | -00 39 35.0 | /           | /           | /           | /           |
| 2157 | J181632-003935                   | ZD2023_2    | 2024-07-13 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 18 16 32.00 | -00 39 35.0 | /           | /           | /           | /           |
| 2158 | J183119+020455                   | ZD2023_2    | 2024-07-13 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 18 31 19.80 | +02 04 55.0 | /           | /           | /           | /           |
| 2159 | J183119+020455                   | ZD2023_2    | 2024-07-13 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 18 31 19.80 | +02 04 55.0 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2160 | J191247+010133                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 12 47.20 | +01 01 33.0 | /           | /           | /           | /           |
| 2161 | J191247+010133                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 12 47.20 | +01 01 33.0 | /           | /           | /           | /           |
| 2162 | J191556+060129                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 15 56.15 | +06 01 29.7 | /           | /           | /           | /           |
| 2163 | J191556+060129                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 15 56.15 | +06 01 29.7 | /           | /           | /           | /           |
| 2164 | J192410+211017                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 24 10.10 | +21 10 17.0 | /           | /           | /           | /           |
| 2165 | J192410+211017                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 24 10.10 | +21 10 17.0 | /           | /           | /           | /           |
| 2166 | J193508+215846                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | Tracking          | 1790          | 19 35 08.00 | +21 58 46.0 | /           | /           | /           | /           |
| 2167 | J193508+215846                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | Tracking          | 178           | 19 35 08.00 | +21 58 46.0 | /           | /           | /           | /           |
| 2168 | J194303+211505                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 19 43 03.30 | /           | +21 15 05.0 | /           |
| 2169 | J194303+211505                   | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 19 43 03.30 | /           | +21 15 05.0 | /           |
| 2170 | FRB20240114A                     | PT2023_0073 | 2024-07-14 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 2171 | J2017+0603                       | PT2023_0050 | 2024-07-14 | 19波束接收机  | beam1    | psr(2k)   | Tracking          | 565           | 20 17 22.70 | +06 03 05.6 | /           | /           | /           | /           |
| 2172 | M31_RArm_1                       | ZD2023_4_2  | 2024-07-14 | 19波束接收机  | all      | psr(1k)   | Tracking          | 6478          | 00 40 29.57 | +40 42 56.5 | /           | /           | /           | /           |
| 2173 | FRB20211103A                     | PT2023_0157 | 2024-07-14 | 19波束接收机  | all      | psr(4k)   | Tracking          | 21448         | 04 19 16.00 | -05 34 21.0 | /           | /           | /           | /           |
| 2174 | G193.29-1.78                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 06 07 56.66 | +16 32 57.9 | /           | /           | /           | /           |
| 2175 | G193.29-1.78                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 07 56.66 | +16 32 57.9 | /           | /           | /           | /           |
| 2176 | G200.34-1.95                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 21 09.07 | +10 16 52.0 | /           | /           | /           | /           |
| 2177 | G200.34-1.95                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 21 09.07 | +10 16 52.0 | /           | /           | /           | /           |
| 2178 | G201.12-1.61                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 23 51.40 | +09 44 56.2 | /           | /           | /           | /           |
| 2179 | G201.12-1.61                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 23 51.40 | +09 44 56.2 | /           | /           | /           | /           |
| 2180 | G203.66-2.12                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 26 49.88 | +07 15 46.1 | /           | /           | /           | /           |
| 2181 | G203.66-2.12                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 26 49.88 | +07 15 46.1 | /           | /           | /           | /           |
| 2182 | G201.17-1.19                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 25 28.20 | +09 54 13.0 | /           | /           | /           | /           |
| 2183 | G201.17-1.19                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 25 28.20 | +09 54 13.0 | /           | /           | /           | /           |
| 2184 | G195.59+2.03                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 06 26 29.46 | +16 20 14.0 | /           | /           | /           | /           |
| 2185 | G195.59+2.03                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 26 29.46 | +16 20 14.0 | /           | /           | /           | /           |
| 2186 | G188.01+7.20                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 06 31 20.90 | +25 25 13.3 | /           | /           | /           | /           |
| 2187 | G188.01+7.20                     | ZD2023_2    | 2024-07-14 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 31 20.90 | +25 25 13.3 | /           | /           | /           | /           |
| 2188 | DEC+651111-11                    | N2023_1     | 2024-07-14 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1343          | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2189 | DEC+651111-11                    | N2023_1     | 2024-07-14 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 266           | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2190 | DEC+055718-d                     | N2023_1     | 2024-07-14 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 00 00.00 | +05 57 18.9 | 12 00 00.00 | 14 00 00.00 | +05 57 18.9 | +05 57 18.9 |
| 2191 | DEC+051358-e                     | N2023_1     | 2024-07-14 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 14 00 00.00 | +05 13 58.5 | 14 00 00.00 | 16 00 00.00 | +05 13 58.5 | +05 13 58.5 |
| 2192 | DEC-085109-7                     | N2023_1     | 2024-07-14 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 896           | 11 23 00.00 | -08 51 09.3 | /           | /           | /           | /           |
| 2193 | DEC-085109-7                     | N2023_1     | 2024-07-14 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 178           | 11 23 00.00 | -08 51 09.3 | /           | /           | /           | /           |
| 2194 | source_1                         | PT2023_0160 | 2024-07-14 | 19波束接收机  | all      | psr(4k)   | Tracking          | 17874         | 19 03 41.00 | +14 07 31.0 | /           | /           | /           | /           |
| 2195 | J1910+1256                       | PT2023_0050 | 2024-07-14 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1694          | 19 10 09.70 | +12 56 25.5 | /           | /           | /           | /           |
| 2196 | J2016+1948                       | PT2023_0050 | 2024-07-15 | 19波束接收机  | beam1    | psr(2k)   | Tracking          | 1129          | 20 16 57.44 | +19 47 51.6 | /           | /           | /           | /           |
| 2197 | source_4                         | PT2023_0171 | 2024-07-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 941           | 23 01 08.30 | +58 52 44.5 | /           | /           | /           | /           |
| 2198 | ctb87_34                         | PT2023_0008 | 2024-07-15 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 20 16 09.20 | +37 11 10.5 | /           | /           | /           | /           |
| 2199 | DaviesCloud_OTF_v2-2             | ZD2023_4    | 2024-07-15 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 330           | 00 38 22.00 | +42 08 44.4 | 00 33 30.00 | 00 43 14.00 | +42 08 27.3 | +42 09 01.5 |
| 2200 | FRB20230104A                     | PT2023_0157 | 2024-07-15 | 19波束接收机  | all      | psr(4k)   | Tracking          | 21448         | 02 15 44.00 | +27 36 37.0 | /           | /           | /           | /           |
| 2201 | PPS_7                            | N2023_1     | 2024-07-15 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.75 | +42 25 59.1 | 02 00 00.00 | 04 00 00.00 | +42 04 18.9 | +42 04 18.9 |
| 2202 | FRB20211103A                     | PT2023_0157 | 2024-07-15 | 19波束接收机  | all      | psr(4k)   | Tracking          | 21448         | 04 19 16.00 | -05 34 21.0 | /           | /           | /           | /           |
| 2203 | FRB20180301A                     | PT2023_0124 | 2024-07-15 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 941           | 06 12 54.44 | +04 40 15.8 | /           | /           | /           | /           |
| 2204 | DEC+642751-10                    | N2023_1     | 2024-07-15 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 907           | 11 23 00.00 | +64 27 51.3 | /           | /           | /           | /           |
| 2205 | DEC+642751-10                    | N2023_1     | 2024-07-15 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 180           | 11 23 00.00 | +64 27 51.3 | /           | /           | /           | /           |
| 2206 | Dec+6112_08_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-15 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 5787          | 08 00 00.00 | +61 12 49.5 | /           | /           | /           | /           |
| 2207 | Dec+6112_08_05                   | ZD2023_1_2  | 2024-07-15 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 08 00 00.00 | +61 12 49.5 | /           | /           | /           | /           |
| 2208 | DEC+053538-e                     | N2023_1     | 2024-07-15 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 14 00 00.00 | +05 35 38.7 | 14 00 00.00 | 16 00 00.00 | +05 35 38.7 | +05 35 38.7 |
| 2209 | DEC-082929-6                     | N2023_1     | 2024-07-15 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1377          | 11 23 00.00 | -08 29 29.1 | /           | /           | /           | /           |
| 2210 | DEC-082929-6                     | N2023_1     | 2024-07-15 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 273           | 11 23 00.00 | -08 29 29.1 | /           | /           | /           | /           |
| 2211 | G37.63+4.91                      | ZD2023_2    | 2024-07-15 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 18 42 26.18 | +06 24 48.3 | /           | /           | /           | /           |
| 2212 | G37.63+4.91                      | ZD2023_2    | 2024-07-15 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 42 26.18 | +06 24 48.3 | /           | /           | /           | /           |
| 2213 | J1848+0011                       | ZD2023_2    | 2024-07-15 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 7329          | 18 48 59.50 | +00 11 19.0 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode             | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|----------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2214 | J1848+0011                       | ZD2023_2    | 2024-07-15 | 19波束接收机  | all      | spec(F)   | SnapShot             | 726           | 18 48 59.50 | +00 11 19.0 | /           | /           | /           | /           |
| 2215 | J1916+0951                       | PT2023_0050 | 2024-07-16 | 19波束接收机  | beam1    | psr(8k)   | Tracking             | 1129          | 19 16 32.34 | +09 51 26.0 | /           | /           | /           | /           |
| 2216 | DaviesCloud_OTF_v2-3             | ZD2023_4    | 2024-07-16 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF         | 319           | 00 38 12.00 | +41 47 04.8 | 00 33 30.00 | 00 42 54.00 | +41 46 47.7 | +41 47 21.9 |
| 2217 | FRB20230104A                     | PT2023_0157 | 2024-07-16 | 19波束接收机  | all      | psr(4k)   | Tracking             | 21448         | 02 15 44.00 | +27 36 37.0 | /           | /           | /           | /           |
| 2218 | FRB20220529                      | ZD2023_5    | 2024-07-16 | 19波束接收机  | beam1    | psr(4k)   | Tracking             | 562           | 01 16 25.01 | +20 37 57.0 | /           | /           | /           | /           |
| 2219 | G167.61-2.03                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SnapShotCal          | 1031          | 05 04 03.95 | +38 02 38.1 | /           | /           | /           | /           |
| 2220 | G167.61-2.03                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | spec(F)   | SnapShotCal          | 408           | 05 04 03.95 | +38 02 38.1 | /           | /           | /           | /           |
| 2221 | G151.27+1.36                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SnapShot             | 941           | 04 16 38.89 | +52 33 01.6 | /           | /           | /           | /           |
| 2222 | G151.27+1.36                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 04 16 38.89 | +52 33 01.6 | /           | /           | /           | /           |
| 2223 | G152.45+1.86                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SnapShot             | 941           | 04 24 26.58 | +52 05 05.7 | /           | /           | /           | /           |
| 2224 | G152.45+1.86                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 04 24 26.58 | +52 05 05.7 | /           | /           | /           | /           |
| 2225 | G162.13+2.03                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SnapShotCal          | 1031          | 05 03 30.83 | +44 51 55.3 | /           | /           | /           | /           |
| 2226 | G162.13+2.03                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | spec(F)   | SnapShotCal          | 408           | 05 03 30.83 | +44 51 55.3 | /           | /           | /           | /           |
| 2227 | G164.72+1.95                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SnapShot             | 941           | 05 11 44.48 | +42 44 23.4 | /           | /           | /           | /           |
| 2228 | G164.72+1.95                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 05 11 44.48 | +42 44 23.4 | /           | /           | /           | /           |
| 2229 | G209.68-1.53                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal         | 3940          | 06 40 04.03 | +02 11 54.1 | /           | /           | /           | /           |
| 2230 | G209.68-1.53                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | spec(F)   | SnapShotZCal         | 1558          | 06 40 04.03 | +02 11 54.1 | /           | /           | /           | /           |
| 2231 | G208.21+1.86                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SnapShot             | 941           | 06 49 28.08 | +05 03 04.1 | /           | /           | /           | /           |
| 2232 | G208.21+1.86                     | ZD2023_2    | 2024-07-16 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 06 49 28.08 | +05 03 04.1 | /           | /           | /           | /           |
| 2233 | 19C119_J0846-1049                | ZD2023_6    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 08 46 39.00 | /           | -10 49 14.0 | /           |
| 2234 | 19C136_J1048+53                  | ZD2023_6    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 10 48 12.27 | /           | +53 52 43.8 | /           |
| 2235 | 19C23_J1142+3253                 | ZD2023_6    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 11 42 06.00 | /           | +32 53 02.0 | /           |
| 2236 | DEC+164724-d                     | N2023_1     | 2024-07-16 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF         | 266           | 12 20 00.00 | +16 47 24.9 | 12 20 00.00 | 14 20 00.00 | +16 47 24.9 | +16 47 24.9 |
| 2237 | J1845+0201                       | PT2023_0017 | 2024-07-16 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration     | 3044          | /           | /           | 18 45 03.00 | /           | +02 01 49.0 | /           |
| 2238 | J1839+0100                       | PT2023_0017 | 2024-07-16 | 19波束接收机  | all      | psr(4k)   | Tracking             | 3044          | 18 39 27.60 | +01 00 33.0 | /           | /           | /           | /           |
| 2239 | 19C41_J1852-13                   | ZD2023_6    | 2024-07-16 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 18 52 18.20 | /           | -13 09 57.2 | /           |
| 2240 | ZTF_J190132.9+145808.7           | PT2023_0130 | 2024-07-17 | 19波束接收机  | all      | psr(4k)   | Tracking             | 19658         | 19 01 32.90 | +14 58 08.7 | /           | /           | /           | /           |
| 2241 | 1952802469918554368              | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 21 46 22.32 | +38 13 03.0 | /           | /           | /           | /           |
| 2242 | G116_r                           | PT2023_0116 | 2024-07-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF         | 279           | 00 24 00.00 | +36 30 00.0 | 00 36 00.00 | 00 12 00.00 | +34 29 00.0 | +35 57 37.9 |
| 2243 | 3C48                             | PT2023_0116 | 2024-07-17 | 19波束接收机  | all      | spec(W+N) | MultiBeamCalibration | 73            | 01 37 41.30 | +33 09 35.1 | /           | /           | /           | /           |
| 2244 | 2640434056928150400              | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 23 35 11.28 | -02 23 33.6 | /           | /           | /           | /           |
| 2245 | 18565464288396416                | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 02 36 17.13 | +06 52 40.4 | /           | /           | /           | /           |
| 2246 | FRB121102                        | PT2023_0073 | 2024-07-17 | 19波束接收机  | beam1    | psr(4k)   | Tracking             | 377           | 05 31 58.70 | +33 08 52.5 | /           | /           | /           | /           |
| 2247 | G172.45-1.95                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | psr(1k)   | SnapShotCal          | 1031          | 05 18 33.96 | +34 11 18.3 | /           | /           | /           | /           |
| 2248 | G172.45-1.95                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | spec(F)   | SnapShotCal          | 408           | 05 18 33.96 | +34 11 18.3 | /           | /           | /           | /           |
| 2249 | G173.24+1.61                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal         | 3940          | 05 35 05.57 | +35 31 25.5 | /           | /           | /           | /           |
| 2250 | G173.24+1.61                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | spec(F)   | SnapShotZCal         | 1558          | 05 35 05.57 | +35 31 25.5 | /           | /           | /           | /           |
| 2251 | G173.58+1.36                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | psr(1k)   | SnapShot             | 941           | 05 34 57.11 | +35 05 54.1 | /           | /           | /           | /           |
| 2252 | G173.58+1.36                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 05 34 57.11 | +35 05 54.1 | /           | /           | /           | /           |
| 2253 | G181.75+1.27                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal         | 3940          | 05 54 39.91 | +28 05 19.8 | /           | /           | /           | /           |
| 2254 | G181.75+1.27                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | spec(F)   | SnapShotZCal         | 1558          | 05 54 39.91 | +28 05 19.8 | /           | /           | /           | /           |
| 2255 | G188.79+1.10                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | psr(1k)   | SnapShot             | 941           | 06 09 22.63 | +21 52 53.7 | /           | /           | /           | /           |
| 2256 | G188.79+1.10                     | ZD2023_2    | 2024-07-17 | 19波束接收机  | all      | spec(F)   | SnapShot             | 372           | 06 09 22.63 | +21 52 53.7 | /           | /           | /           | /           |
| 2257 | 3907283967108054528              | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 12 18 58.08 | +11 07 36.8 | /           | /           | /           | /           |
| 2258 | 3741297293732404352              | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 13 45 45.60 | +14 53 07.0 | /           | /           | /           | /           |
| 2259 | 1237090738916392704              | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 14 51 23.52 | +19 06 01.0 | /           | /           | /           | /           |
| 2260 | 6322070093095493504              | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 15 19 25.44 | -07 43 21.6 | /           | /           | /           | /           |
| 2261 | FRB190520B                       | PT2023_0077 | 2024-07-17 | 19波束接收机  | beam1    | psr(4k)   | Tracking             | 1129          | 16 02 04.27 | -11 17 17.1 | /           | /           | /           | /           |
| 2262 | 4339465360508118912              | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 16 55 24.48 | -08 19 35.2 | /           | /           | /           | /           |
| 2263 | 4339417394313320192              | PT2023_0092 | 2024-07-17 | 19波束接收机  | all      | seti      | Tracking             | 2224          | 16 55 34.32 | -08 23 54.2 | /           | /           | /           | /           |
| 2264 | J1847-0130                       | PT2023_0165 | 2024-07-17 | 19波束接收机  | all      | psr(4k)   | Tracking             | 17874         | 18 47 35.21 | -01 30 46.0 | /           | /           | /           | /           |
| 2265 | C52_J1929+4104                   | ZD2023_6    | 2024-07-18 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration     | 449           | /           | /           | 19 29 16.00 | /           | +41 04 12.0 | /           |
| 2266 | J1954+2529                       | PT2023_0138 | 2024-07-18 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration     | 678           | /           | /           | 19 54 19.71 | /           | +25 29 27.3 | /           |
| 2267 | Dec+2024_01_05(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-18 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle       | 5787          | 01 00 00.00 | +20 24 06.9 | /           | /           | /           | /           |

| ID   | source_name          | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA           | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 2268 | Dec+2024_01_05       | ZD2023_1_2  | 2024-07-18 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3430          | 01 00 00.00  | +20 24 06.9 | /           | /           | /           | /           |
| 2269 | 3022956969731332096  | PT2023_0092 | 2024-07-18 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 05 55 10.08  | -04 10 42.9 | /           | /           | /           | /           |
| 2270 | 939072613334579328   | PT2023_0092 | 2024-07-18 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 06 54 48.00  | +33 15 59.4 | /           | /           | /           | /           |
| 2271 | 946632924006923776   | PT2023_0092 | 2024-07-18 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 07 10 01.20  | +38 31 31.4 | /           | /           | /           | /           |
| 2272 | 3988987164339438208  | PT2023_0092 | 2024-07-18 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 11 00 03.84  | +22 49 54.1 | /           | /           | /           | /           |
| 2273 | 3864615459886222464  | PT2023_0092 | 2024-07-18 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 10 50 51.12  | +06 48 16.5 | /           | /           | /           | /           |
| 2274 | 3855208897392952192  | PT2023_0092 | 2024-07-18 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 10 28 54.96  | +00 50 16.2 | /           | /           | /           | /           |
| 2275 | DEC+204547-d         | N2023_1     | 2024-07-18 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 00 00.00  | +20 45 47.1 | 12 00 00.00 | 14 00 00.00 | +20 45 47.1 | +20 45 47.1 |
| 2276 | DEC+200226-e         | N2023_1     | 2024-07-18 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 30 00.00  | +20 02 26.7 | 12 30 00.00 | 14 30 00.00 | +20 02 26.7 | +20 02 26.7 |
| 2277 | DEC-082929-7         | N2023_1     | 2024-07-18 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 873           | 11 23 00.00  | -08 29 29.1 | /           | /           | /           | /           |
| 2278 | DEC-082929-7         | N2023_1     | 2024-07-18 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 173           | 11 23 00.00  | -08 29 29.1 | /           | /           | /           | /           |
| 2279 | J1741+1351           | PT2023_0109 | 2024-07-18 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 17 41 31.14  | +13 51 44.1 | /           | /           | /           | /           |
| 2280 | J1744-1134           | PT2023_0177 | 2024-07-18 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 95            | 17 44 29.41  | -11 34 54.7 | /           | /           | /           | /           |
| 2281 | C41_2359+4238        | ZD2023_6    | 2024-07-19 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 985           | /            | /           | 23 59 19.10 | /           | +42 38 55.2 | /           |
| 2282 | DaviesCloud_OTF_v2-4 | ZD2023_4    | 2024-07-19 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 286           | 00 37 42.00  | +41 25 25.2 | 00 33 30.00 | 00 41 54.00 | +41 25 08.1 | +41 25 42.3 |
| 2283 | HD-10697             | PT2023_0092 | 2024-07-19 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 01 44 55.82  | +20 04 59.3 | /           | /           | /           | /           |
| 2284 | alf-Ari              | PT2023_0092 | 2024-07-19 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 02 07 10.41  | +23 27 44.7 | /           | /           | /           | /           |
| 2285 | LP469-206            | PT2023_0092 | 2024-07-19 | 19波束接收机  | all      | seti      | Tracking          | 2224          | 02 16 29.85  | +13 35 12.7 | /           | /           | /           | /           |
| 2286 | FRB180301            | PT2023_0180 | 2024-07-19 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1317          | 06 12 54.44  | +04 40 15.8 | /           | /           | /           | /           |
| 2287 | DEC+592428-13        | N2023_1     | 2024-07-19 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 627           | 11 23 00.00  | +59 24 28.5 | /           | /           | /           | /           |
| 2288 | DEC+592428-13        | N2023_1     | 2024-07-19 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 124           | 11 23 00.00  | +59 24 28.5 | /           | /           | /           | /           |
| 2289 | DEC+210727-e         | N2023_1     | 2024-07-19 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 12 30 00.00  | +21 07 27.3 | 12 30 00.00 | 14 30 00.00 | +21 07 27.3 | +21 07 27.3 |
| 2290 | DEC-064108-c         | N2023_1     | 2024-07-19 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 15 00 00.00  | -06 41 08.1 | 15 00 00.00 | 17 00 00.00 | -06 41 08.1 | -06 41 08.1 |
| 2291 | J1801-0108           | PT2023_0065 | 2024-07-19 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 509           | /            | /           | 18 01 24.66 | /           | -01 08 21.9 | /           |
| 2292 | J1800-0059           | PT2023_0065 | 2024-07-19 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 546           | /            | /           | 18 00 38.90 | /           | -00 59 11.0 | /           |
| 2293 | J1921+2153           | PT2023_0098 | 2024-07-19 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 2258          | 19 21 44.81  | +21 53 02.2 | /           | /           | /           | /           |
| 2294 | G63.31+8.39          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 17 43.38  | +30 47 01.9 | /           | /           | /           | /           |
| 2295 | G63.31+8.39          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 17 43.38  | +30 47 01.9 | /           | /           | /           | /           |
| 2296 | G68.25+6.10          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 38 06.87  | +34 03 44.2 | /           | /           | /           | /           |
| 2297 | G68.25+6.10          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 38 06.87  | +34 03 44.2 | /           | /           | /           | /           |
| 2298 | G93.64-2.63          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 21 38 54.94  | +48 58 49.6 | /           | /           | /           | /           |
| 2299 | G93.64-2.63          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 38 54.94  | +48 58 49.6 | /           | /           | /           | /           |
| 2300 | J2238-1221           | ZD2023_6    | 2024-07-20 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 114           | +22 38 44.13 | -12 21 31.1 | /           | /           | /           | /           |
| 2301 | G82.19-8.39          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 21 16 01.90  | +36 54 50.7 | /           | /           | /           | /           |
| 2302 | G82.19-8.39          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 16 01.90  | +36 54 50.7 | /           | /           | /           | /           |
| 2303 | G94.52-7.88          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 22 02 31.89  | +45 28 15.2 | /           | /           | /           | /           |
| 2304 | G94.52-7.88          | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 22 02 31.89  | +45 28 15.2 | /           | /           | /           | /           |
| 2305 | G104.35-9.66         | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 22 56 55.60  | +49 02 16.8 | /           | /           | /           | /           |
| 2306 | G104.35-9.66         | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 22 56 55.60  | +49 02 16.8 | /           | /           | /           | /           |
| 2307 | DaviesCloud_OTF_v2-5 | ZD2023_4    | 2024-07-20 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 220           | 00 36 42.00  | +41 03 45.6 | 00 33 30.00 | 00 39 54.00 | +41 03 28.5 | +41 04 02.7 |
| 2308 | 215                  | PT2023_0063 | 2024-07-20 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 15635         | 01 16 00.00  | +63 44 30.9 | /           | /           | /           | /           |
| 2309 | 215                  | PT2023_0063 | 2024-07-20 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 968           | 01 16 00.00  | +63 44 30.9 | /           | /           | /           | /           |
| 2310 | G173.19-2.03         | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 20 15.30  | +33 32 19.7 | /           | /           | /           | /           |
| 2311 | G173.19-2.03         | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 20 15.30  | +33 32 19.7 | /           | /           | /           | /           |
| 2312 | G182.48+1.19         | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 56 00.35  | +27 24 45.2 | /           | /           | /           | /           |
| 2313 | G182.48+1.19         | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 56 00.35  | +27 24 45.2 | /           | /           | /           | /           |
| 2314 | G184.78+1.78         | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 03 25.03  | +25 42 47.4 | /           | /           | /           | /           |
| 2315 | G184.78+1.78         | ZD2023_2    | 2024-07-20 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 03 25.03  | +25 42 47.4 | /           | /           | /           | /           |
| 2316 | DEC+644931-10        | N2023_1     | 2024-07-20 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1444          | 11 23 00.00  | +64 49 31.5 | /           | /           | /           | /           |
| 2317 | DEC+644931-10        | N2023_1     | 2024-07-20 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 286           | 11 23 00.00  | +64 49 31.5 | /           | /           | /           | /           |
| 2318 | J1741+1351           | PT2023_0109 | 2024-07-20 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 17 41 31.14  | +13 51 44.1 | /           | /           | /           | /           |
| 2319 | J1745-0058           | PT2023_0065 | 2024-07-20 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 509           | /            | /           | 17 45 56.75 | /           | -00 58 54.9 | /           |
| 2320 | J1735-0243           | PT2023_0065 | 2024-07-20 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 509           | /            | /           | 17 35 48.10 | /           | -02 43 48.0 | /           |
| 2321 | SGR1935+2154         | PT2023_0055 | 2024-07-20 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 941           | 19 34 55.68  | +21 53 48.2 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2322 | FRB20240114A                     | PT2023_0073 | 2024-07-21 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 2323 | M2                               | PT2023_0125 | 2024-07-21 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 2168          | /           | /           | 21 33 27.02 | /           | -00 49 23.7 | /           |
| 2324 | rg2_01_RA221800_Dec181000        | PT2023_0004 | 2024-07-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 161           | 22 18 00.00 | +18 10 00.0 | 22 18 00.00 | 21 59 30.00 | +18 10 00.0 | +18 50 00.0 |
| 2325 | HCG100_p1                        | PT2023_0021 | 2024-07-21 | 19波束接收机  | all      | spec(W+N) | OnOff             | 78            | /           | /           | 00 01 13.76 | 23 59 39.73 | +13 07 44.4 | +12 34 57.4 |
| 2326 | DEC-070248-9                     | N2023_1     | 2024-07-21 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 471           | 11 23 00.00 | -07 02 48.3 | /           | /           | /           | /           |
| 2327 | DEC-070248-9                     | N2023_1     | 2024-07-21 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 93            | 11 23 00.00 | -07 02 48.3 | /           | /           | /           | /           |
| 2328 | 216                              | PT2023_0063 | 2024-07-21 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 15635         | 01 16 00.00 | +64 06 11.1 | /           | /           | /           | /           |
| 2329 | 216                              | PT2023_0063 | 2024-07-21 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 968           | 01 16 00.00 | +64 06 11.1 | /           | /           | /           | /           |
| 2330 | DEC+072359-a                     | N2023_1     | 2024-07-21 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 03 00 00.00 | +07 23 59.7 | 03 00 00.00 | 05 00 00.00 | +07 23 59.7 | +07 23 59.7 |
| 2331 | DEC+651111-12                    | N2023_1     | 2024-07-21 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1713          | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2332 | DEC+651111-12                    | N2023_1     | 2024-07-21 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 339           | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2333 | Dec+6134_08_06(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-21 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 6907          | 08 00 00.00 | +61 34 29.7 | /           | /           | /           | /           |
| 2334 | Dec+6134_08_06                   | ZD2023_1_2  | 2024-07-21 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 4093          | 08 00 00.00 | +61 34 29.7 | /           | /           | /           | /           |
| 2335 | DEC-080748-8                     | N2023_1     | 2024-07-21 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1287          | 11 23 00.00 | -08 07 48.9 | /           | /           | /           | /           |
| 2336 | DEC-080748-8                     | N2023_1     | 2024-07-21 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 255           | 11 23 00.00 | -08 07 48.9 | /           | /           | /           | /           |
| 2337 | J1713+0747                       | ZD2023_6    | 2024-07-21 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 13 49.53 | +07 47 37.4 | /           | /           | /           | /           |
| 2338 | G40.96+7.96                      | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 18 37 22.27 | +10 43 58.8 | /           | /           | /           | /           |
| 2339 | G40.96+7.96                      | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 37 22.27 | +10 43 58.8 | /           | /           | /           | /           |
| 2340 | G41.74+5.08                      | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 18 49 16.17 | +10 08 43.4 | /           | /           | /           | /           |
| 2341 | G41.74+5.08                      | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 49 16.17 | +10 08 43.4 | /           | /           | /           | /           |
| 2342 | G40.86+3.90                      | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 18 51 57.60 | +08 49 38.2 | /           | /           | /           | /           |
| 2343 | G40.86+3.90                      | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 51 57.60 | +08 49 38.2 | /           | /           | /           | /           |
| 2344 | J185122+072518                   | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 18 51 22.90 | /           | +07 25 18.0 | /           |
| 2345 | J185122+072518                   | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 18 51 22.90 | /           | +07 25 18.0 | /           |
| 2346 | G41.69+4.66                      | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 18 50 43.05 | +09 54 40.9 | /           | /           | /           | /           |
| 2347 | G41.69+4.66                      | ZD2023_2    | 2024-07-21 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 50 43.05 | +09 54 40.9 | /           | /           | /           | /           |
| 2348 | G43.60+5.08                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 18 52 39.45 | +11 47 58.9 | /           | /           | /           | /           |
| 2349 | G43.60+5.08                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 52 39.45 | +11 47 58.9 | /           | /           | /           | /           |
| 2350 | G46.09+4.15                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 00 39.92 | +13 35 57.0 | /           | /           | /           | /           |
| 2351 | G46.09+4.15                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 00 39.92 | +13 35 57.0 | /           | /           | /           | /           |
| 2352 | G67.08-4.07                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 15 48.59 | +27 46 22.3 | /           | /           | /           | /           |
| 2353 | G67.08-4.07                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 15 48.59 | +27 46 22.3 | /           | /           | /           | /           |
| 2354 | G67.62-5.85                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 23 48.45 | +27 13 05.5 | /           | /           | /           | /           |
| 2355 | G67.62-5.85                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 23 48.45 | +27 13 05.5 | /           | /           | /           | /           |
| 2356 | G73.44-6.95                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 43 31.14 | +31 14 35.4 | /           | /           | /           | /           |
| 2357 | G73.44-6.95                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 43 31.14 | +31 14 35.4 | /           | /           | /           | /           |
| 2358 | G79.85-9.40                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 21 11 54.88 | +34 31 23.2 | /           | /           | /           | /           |
| 2359 | G79.85-9.40                      | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 11 54.88 | +34 31 23.2 | /           | /           | /           | /           |
| 2360 | DEC-080748-9                     | N2023_1     | 2024-07-22 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1131          | 11 23 00.00 | -08 07 48.9 | /           | /           | /           | /           |
| 2361 | DEC-080748-9                     | N2023_1     | 2024-07-22 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 224           | 11 23 00.00 | -08 07 48.9 | /           | /           | /           | /           |
| 2362 | 217                              | PT2023_0063 | 2024-07-22 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 15635         | 01 16 00.00 | +64 27 51.3 | /           | /           | /           | /           |
| 2363 | 217                              | PT2023_0063 | 2024-07-22 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 968           | 01 16 00.00 | +64 27 51.3 | /           | /           | /           | /           |
| 2364 | G173.58-1.86                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 21 59.37 | +33 18 49.1 | /           | /           | /           | /           |
| 2365 | G173.58-1.86                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 21 59.37 | +33 18 49.1 | /           | /           | /           | /           |
| 2366 | G175.83+1.53                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 41 27.54 | +33 17 15.6 | /           | /           | /           | /           |
| 2367 | G175.83+1.53                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 41 27.54 | +33 17 15.6 | /           | /           | /           | /           |
| 2368 | G178.42+1.44                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 47 31.10 | +31 02 01.6 | /           | /           | /           | /           |
| 2369 | G178.42+1.44                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 47 31.10 | +31 02 01.6 | /           | /           | /           | /           |
| 2370 | G180.62+1.19                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 51 43.97 | +29 00 53.9 | /           | /           | /           | /           |
| 2371 | G180.62+1.19                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 51 43.97 | +29 00 53.9 | /           | /           | /           | /           |
| 2372 | G189.52+1.02                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 10 34.92 | +21 11 53.8 | /           | /           | /           | /           |
| 2373 | G189.52+1.02                     | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 10 34.92 | +21 11 53.8 | /           | /           | /           | /           |
| 2374 | DEC+642751-11                    | N2023_1     | 2024-07-22 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2015          | 11 23 00.00 | +64 27 51.3 | /           | /           | /           | /           |
| 2375 | DEC+642751-11                    | N2023_1     | 2024-07-22 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 399           | 11 23 00.00 | +64 27 51.3 | /           | /           | /           | /           |

| ID   | source_name    | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|----------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-----------|-------------|------------|
| 2376 | J1741+1351     | PT2023_0109 | 2024-07-22 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 151           | 17 41 31.14 | +13 51 44.1 | /           | /         | /           | /          |
| 2377 | J1839+0543     | PT2023_0046 | 2024-07-22 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 140           | /           | /           | 18 39 24.29 | /         | +05 43 24.9 | /          |
| 2378 | G44.72+5.17    | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 18 54 24.46 | +12 50 20.4 | /           | /         | /           | /          |
| 2379 | G44.72+5.17    | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 54 24.46 | +12 50 20.4 | /           | /         | /           | /          |
| 2380 | G27.95+7.96    | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 18 14 00.68 | -00 46 11.0 | /           | /         | /           | /          |
| 2381 | G27.95+7.96    | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 14 00.68 | -00 46 11.0 | /           | /         | /           | /          |
| 2382 | J182855+021819 | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 18 28 55.80 | /         | +02 18 19.0 | /          |
| 2383 | J182855+021819 | ZD2023_2    | 2024-07-22 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 18 28 55.80 | /         | +02 18 19.0 | /          |
| 2384 | G37.58-8.39    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 29 45.12 | +00 16 43.2 | /           | /         | /           | /          |
| 2385 | G37.58-8.39    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 29 45.12 | +00 16 43.2 | /           | /         | /           | /          |
| 2386 | G38.41-7.63    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 28 34.27 | +01 21 41.2 | /           | /         | /           | /          |
| 2387 | G38.41-7.63    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 28 34.27 | +01 21 41.2 | /           | /         | /           | /          |
| 2388 | J191628+094959 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 16 28.60 | +09 49 59.0 | /           | /         | /           | /          |
| 2389 | J191628+094959 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 16 28.60 | +09 49 59.0 | /           | /         | /           | /          |
| 2390 | G51.47-3.98    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 40 41.66 | +14 31 02.4 | /           | /         | /           | /          |
| 2391 | G51.47-3.98    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 40 41.66 | +14 31 02.4 | /           | /         | /           | /          |
| 2392 | J194512+174046 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 45 12.98 | +17 40 46.9 | /           | /         | /           | /          |
| 2393 | J194512+174046 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 45 12.98 | +17 40 46.9 | /           | /         | /           | /          |
| 2394 | J194553+201135 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 45 53.10 | +20 11 35.0 | /           | /         | /           | /          |
| 2395 | J194553+201135 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 45 53.10 | +20 11 35.0 | /           | /         | /           | /          |
| 2396 | G64.88-7.03    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 21 20.35 | +24 18 05.1 | /           | /         | /           | /          |
| 2397 | G64.88-7.03    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 21 20.35 | +24 18 05.1 | /           | /         | /           | /          |
| 2398 | FRB20240114A   | ZD2023_5    | 2024-07-23 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 396           | 21 27 39.84 | +04 19 46.3 | /           | /         | /           | /          |
| 2399 | J225815+522225 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 22 58 15.80 | /         | +52 22 25.0 | /          |
| 2400 | J225815+522225 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 22 58 15.80 | /         | +52 22 25.0 | /          |
| 2401 | DEC-072428-8   | N2023_1     | 2024-07-23 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1052          | 11 23 00.00 | -07 24 28.5 | /           | /         | /           | /          |
| 2402 | DEC-072428-8   | N2023_1     | 2024-07-23 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 208           | 11 23 00.00 | -07 24 28.5 | /           | /         | /           | /          |
| 2403 | 218            | PT2023_0063 | 2024-07-23 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 15635         | 01 16 00.00 | +64 49 31.5 | /           | /         | /           | /          |
| 2404 | 218            | PT2023_0063 | 2024-07-23 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 968           | 01 16 00.00 | +64 49 31.5 | /           | /         | /           | /          |
| 2405 | J065846+141613 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 06 58 46.70 | /         | +14 16 13.0 | /          |
| 2406 | J065846+141613 | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 06 58 46.70 | /         | +14 16 13.0 | /          |
| 2407 | DEC+644931-11  | N2023_1     | 2024-07-23 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1634          | 11 23 00.00 | +64 49 31.5 | /           | /         | /           | /          |
| 2408 | DEC+644931-11  | N2023_1     | 2024-07-23 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 324           | 11 23 00.00 | +64 49 31.5 | /           | /         | /           | /          |
| 2409 | M13            | PT2023_0040 | 2024-07-23 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 1299          | /           | /           | 16 41 41.24 | /         | +36 27 35.5 | /          |
| 2410 | G54.26+7.29    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 04 14.12 | +22 16 07.4 | /           | /         | /           | /          |
| 2411 | G54.26+7.29    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 04 14.12 | +22 16 07.4 | /           | /         | /           | /          |
| 2412 | G54.46+5.76    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 10 29.51 | +21 45 28.8 | /           | /         | /           | /          |
| 2413 | G54.46+5.76    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 10 29.51 | +21 45 28.8 | /           | /         | /           | /          |
| 2414 | G54.26+4.07    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 16 34.60 | +20 48 33.0 | /           | /         | /           | /          |
| 2415 | G54.26+4.07    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 16 34.60 | +20 48 33.0 | /           | /         | /           | /          |
| 2416 | G55.78+4.32    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 18 36.97 | +22 16 03.2 | /           | /         | /           | /          |
| 2417 | G55.78+4.32    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 18 36.97 | +22 16 03.2 | /           | /         | /           | /          |
| 2418 | G56.71+2.71    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 26 38.63 | +22 19 57.7 | /           | /         | /           | /          |
| 2419 | G56.71+2.71    | ZD2023_2    | 2024-07-23 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 26 38.63 | +22 19 57.7 | /           | /         | /           | /          |
| 2420 | G57.59+3.90    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 23 54.02 | +23 40 02.1 | /           | /         | /           | /          |
| 2421 | G57.59+3.90    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 23 54.02 | +23 40 02.1 | /           | /         | /           | /          |
| 2422 | G57.98+4.07    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 24 02.80 | +24 05 29.4 | /           | /         | /           | /          |
| 2423 | G57.98+4.07    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 24 02.80 | +24 05 29.4 | /           | /         | /           | /          |
| 2424 | G59.30+5.85    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 19 47.31 | +26 05 00.2 | /           | /         | /           | /          |
| 2425 | G59.30+5.85    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 19 47.31 | +26 05 00.2 | /           | /         | /           | /          |
| 2426 | G59.74+6.44    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 18 19.87 | +26 44 39.7 | /           | /         | /           | /          |
| 2427 | G59.74+6.44    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 18 19.87 | +26 44 39.7 | /           | /         | /           | /          |
| 2428 | G67.23-6.02    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 23 26.52 | +26 48 05.5 | /           | /         | /           | /          |
| 2429 | G67.23-6.02    | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 23 26.52 | +26 48 05.5 | /           | /         | /           | /          |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA           | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|-------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|
| 2430 | G69.48-5.85                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 28 36.63  | +28 43 59.2 | /           | /           | /           | /           |
| 2431 | G69.48-5.85                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 28 36.63  | +28 43 59.2 | /           | /           | /           | /           |
| 2432 | G70.94-9.24                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 20 44 55.50  | +27 53 26.3 | /           | /           | /           | /           |
| 2433 | G70.94-9.24                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 44 55.50  | +27 53 26.3 | /           | /           | /           | /           |
| 2434 | PSRJ0002+6216                    | PT2023_0156 | 2024-07-24 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 10012         | /            | /           | 00 02 58.23 | /           | +62 16 09.6 | /           |
| 2435 | FRB20240722R                     | ZD2023_5    | 2024-07-24 | 19波束接收机  | all      | psr(4k)   | SnapShotDec       | 5362          | 23 38 20.00  | +32 16 12.0 | /           | /           | /           | /           |
| 2436 | J0453+1559                       | PT2023_0036 | 2024-07-24 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 04 53 45.41  | +15 59 21.3 | /           | /           | /           | /           |
| 2437 | TMC1-1C_1                        | PT2023_0016 | 2024-07-24 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 04 41 35.50  | +25 59 30.0 | /           | /           | /           | /           |
| 2438 | TMC1-1C_2                        | PT2023_0016 | 2024-07-24 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 04 41 35.50  | +25 59 30.0 | /           | /           | /           | /           |
| 2439 | TMC1-1C_3                        | PT2023_0016 | 2024-07-24 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 04 41 35.50  | +25 59 30.0 | /           | /           | /           | /           |
| 2440 | DEC-074608-8                     | N2023_1     | 2024-07-24 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 392           | 11 23 00.00  | -07 46 08.7 | /           | /           | /           | /           |
| 2441 | DEC-074608-8                     | N2023_1     | 2024-07-24 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 78            | 11 23 00.00  | -07 46 08.7 | /           | /           | /           | /           |
| 2442 | FRB121102                        | PT2023_0073 | 2024-07-24 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 05 31 58.70  | +33 08 52.5 | /           | /           | /           | /           |
| 2443 | Dec+6156_08_06(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-24 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 6720          | 08 00 00.00  | +61 56 09.9 | /           | /           | /           | /           |
| 2444 | Dec+6156_08_06                   | ZD2023_1_2  | 2024-07-24 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 3983          | 08 00 00.00  | +61 56 09.9 | /           | /           | /           | /           |
| 2445 | J1411+2551                       | PT2023_0036 | 2024-07-24 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 14 11 18.87  | +25 51 08.4 | /           | /           | /           | /           |
| 2446 | J1829+2456                       | PT2023_0036 | 2024-07-24 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 18 29 34.67  | +24 56 18.2 | /           | /           | /           | /           |
| 2447 | 19C112_J1813-0452                | PT2023_0181 | 2024-07-24 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 114           | /            | /           | 18 13 23.00 | /           | -04 52 02.0 | /           |
| 2448 | 19C118_J1937+14                  | PT2023_0181 | 2024-07-24 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration  | 95            | /            | /           | 19 37 41.01 | /           | +14 17 14.7 | /           |
| 2449 | J1848+1245g                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /            | /           | 18 48 07.30 | /           | +12 45 39.0 | /           |
| 2450 | J1848+1245g                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /            | /           | 18 48 07.30 | /           | +12 45 39.0 | /           |
| 2451 | G45.65+3.56                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 02 01.12  | +12 56 19.2 | /           | /           | /           | /           |
| 2452 | G45.65+3.56                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 02 01.12  | +12 56 19.2 | /           | /           | /           | /           |
| 2453 | G68.60+2.63                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 53 21.66  | +32 37 52.8 | /           | /           | /           | /           |
| 2454 | G68.60+2.63                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 53 21.66  | +32 37 52.8 | /           | /           | /           | /           |
| 2455 | G61.26-2.97                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 57 50.88  | +23 27 40.8 | /           | /           | /           | /           |
| 2456 | G61.26-2.97                      | ZD2023_2    | 2024-07-24 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 57 50.88  | +23 27 40.8 | /           | /           | /           | /           |
| 2457 | J1855-0756                       | ZD2023_6    | 2024-07-24 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 189           | +18 55 16.00 | -07 56 43.0 | /           | /           | /           | /           |
| 2458 | J1906+0746                       | PT2023_0010 | 2024-07-25 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1505          | 19 06 48.68  | +07 46 25.9 | /           | /           | /           | /           |
| 2459 | PKS2209+080                      | PT2023_0010 | 2024-07-25 | 19波束接收机  | beam1    | psr(4k)   | OnOff             | 57            | /            | /           | 22 12 01.58 | 22 12 01.58 | +08 19 16.5 | +09 19 16.5 |
| 2460 | FRB20240114A                     | ZD2023_5    | 2024-07-25 | 19波束接收机  | beam1    | psr(8k)   | Tracking          | 1656          | 21 27 39.84  | +04 19 46.3 | /           | /           | /           | /           |
| 2461 | C41_2359+4238                    | ZD2023_6    | 2024-07-25 | 19波束接收机  | all      | psr(1k)   | SwiftCalibration  | 359           | /            | /           | 23 59 19.10 | /           | +42 38 55.2 | /           |
| 2462 | FRB20240724R                     | ZD2023_5    | 2024-07-25 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 23 38 14.00  | +32 21 10.3 | /           | /           | /           | /           |
| 2463 | DEC+085040-a                     | N2023_1     | 2024-07-25 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 01 10 00.00  | +08 50 40.5 | 01 10 00.00 | 03 10 00.00 | +08 50 40.5 | +08 50 40.5 |
| 2464 | TMC1-1C                          | PT2023_0016 | 2024-07-25 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 04 41 35.50  | +25 59 30.0 | /           | /           | /           | /           |
| 2465 | DEC-085109-8                     | N2023_1     | 2024-07-25 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 549           | 11 23 00.00  | -08 51 09.3 | /           | /           | /           | /           |
| 2466 | DEC-085109-8                     | N2023_1     | 2024-07-25 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 109           | 11 23 00.00  | -08 51 09.3 | /           | /           | /           | /           |
| 2467 | DEC+642751-12                    | N2023_1     | 2024-07-25 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1310          | 11 23 00.00  | +64 27 51.3 | /           | /           | /           | /           |
| 2468 | DEC+642751-12                    | N2023_1     | 2024-07-25 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 259           | 11 23 00.00  | +64 27 51.3 | /           | /           | /           | /           |
| 2469 | DEC+275911-d                     | N2023_1     | 2024-07-25 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 11 20 00.00  | +27 59 11.1 | 11 20 00.00 | 13 20 00.00 | +27 59 11.1 | +27 59 11.1 |
| 2470 | DEC-072428-9                     | N2023_1     | 2024-07-25 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 448           | 11 23 00.00  | -07 24 28.5 | /           | /           | /           | /           |
| 2471 | DEC-072428-9                     | N2023_1     | 2024-07-25 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 89            | 11 23 00.00  | -07 24 28.5 | /           | /           | /           | /           |
| 2472 | G51.72+4.58                      | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 09 42.47  | +18 47 19.7 | /           | /           | /           | /           |
| 2473 | G51.72+4.58                      | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 09 42.47  | +18 47 19.7 | /           | /           | /           | /           |
| 2474 | J183605+035232                   | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 18 36 05.99  | +03 52 32.1 | /           | /           | /           | /           |
| 2475 | J183605+035232                   | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 18 36 05.99  | +03 52 32.1 | /           | /           | /           | /           |
| 2476 | G49.76-5.93                      | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 44 13.99  | +12 04 29.8 | /           | /           | /           | /           |
| 2477 | G49.76-5.93                      | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 44 13.99  | +12 04 29.8 | /           | /           | /           | /           |
| 2478 | G48.83-7.54                      | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 48 05.97  | +10 28 46.9 | /           | /           | /           | /           |
| 2479 | G48.83-7.54                      | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 48 05.97  | +10 28 46.9 | /           | /           | /           | /           |
| 2480 | G47.85-6.35                      | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 41 57.68  | +10 12 46.8 | /           | /           | /           | /           |
| 2481 | G47.85-6.35                      | ZD2023_2    | 2024-07-25 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 41 57.68  | +10 12 46.8 | /           | /           | /           | /           |
| 2482 | G40.76-9.83                      | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 40 42.18  | +02 23 08.9 | /           | /           | /           | /           |
| 2483 | G40.76-9.83                      | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 40 42.18  | +02 23 08.9 | /           | /           | /           | /           |

| ID   | source_name    | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2484 | J194351+270046 | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 3101          | /           | /           | 19 43 51.00 | /           | +27 00 46.0 | /           |
| 2485 | J194351+270046 | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 307           | /           | /           | 19 43 51.00 | /           | +27 00 46.0 | /           |
| 2486 | J195137+283648 | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 51 37.70 | +28 36 48.0 | /           | /           | /           | /           |
| 2487 | J195137+283648 | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 51 37.70 | +28 36 48.0 | /           | /           | /           | /           |
| 2488 | G71.87-4.41    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 29 36.53 | +31 30 46.3 | /           | /           | /           | /           |
| 2489 | G71.87-4.41    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 29 36.53 | +31 30 46.3 | /           | /           | /           | /           |
| 2490 | G73.14-3.05    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 27 53.55 | +33 20 03.0 | /           | /           | /           | /           |
| 2491 | G73.14-3.05    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 27 53.55 | +33 20 03.0 | /           | /           | /           | /           |
| 2492 | G74.32-2.54    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 20 29 11.98 | +34 34 59.3 | /           | /           | /           | /           |
| 2493 | G74.32-2.54    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 29 11.98 | +34 34 59.3 | /           | /           | /           | /           |
| 2494 | G92.76-7.03    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 21 51 45.36 | +45 03 22.4 | /           | /           | /           | /           |
| 2495 | G92.76-7.03    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 51 45.36 | +45 03 22.4 | /           | /           | /           | /           |
| 2496 | G94.91-7.71    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 22 03 43.17 | +45 50 22.5 | /           | /           | /           | /           |
| 2497 | G94.91-7.71    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 22 03 43.17 | +45 50 22.5 | /           | /           | /           | /           |
| 2498 | G104.01-9.40   | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 22 54 23.62 | +49 07 09.0 | /           | /           | /           | /           |
| 2499 | G104.01-9.40   | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 22 54 23.62 | +49 07 09.0 | /           | /           | /           | /           |
| 2500 | G115.85-9.91   | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 00 05 34.87 | +52 19 37.2 | /           | /           | /           | /           |
| 2501 | G115.85-9.91   | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 00 05 34.87 | +52 19 37.2 | /           | /           | /           | /           |
| 2502 | DEC-082929-10  | N2023_1     | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 694           | 11 23 00.00 | -08 29 29.1 | /           | /           | /           | /           |
| 2503 | DEC-082929-10  | N2023_1     | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 138           | 11 23 00.00 | -08 29 29.1 | /           | /           | /           | /           |
| 2504 | TMC1-1C_1      | PT2023_0016 | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | Tracking          | 222           | 04 41 35.50 | +25 59 30.0 | /           | /           | /           | /           |
| 2505 | TMC1-1C_2      | PT2023_0016 | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | Tracking          | 504           | 04 41 35.50 | +25 59 30.0 | /           | /           | /           | /           |
| 2506 | J052013+372223 | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 2507 | J052013+372223 | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 05 20 13.50 | /           | +37 22 23.0 | /           |
| 2508 | G170.30+1.95   | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 28 29.42 | +38 09 54.4 | /           | /           | /           | /           |
| 2509 | G170.30+1.95   | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 28 29.42 | +38 09 54.4 | /           | /           | /           | /           |
| 2510 | G194.42+1.53   | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 22 19.45 | +17 08 14.5 | /           | /           | /           | /           |
| 2511 | G194.42+1.53   | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 22 19.45 | +17 08 14.5 | /           | /           | /           | /           |
| 2512 | DEC+651111-13  | N2023_1     | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1444          | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2513 | DEC+651111-13  | N2023_1     | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 285           | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2514 | DEC+223408-e   | N2023_1     | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 68            | 12 40 00.00 | +22 34 08.1 | 12 40 00.00 | 14 40 00.00 | +22 34 08.1 | +22 34 08.1 |
| 2515 | 3C286_1        | PT2023_0016 | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 31 08.31 | +30 30 32.3 | /           | /           | /           | /           |
| 2516 | 3C286_2        | PT2023_0016 | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 31 08.31 | +30 30 32.3 | /           | /           | /           | /           |
| 2517 | 3C286_3        | PT2023_0016 | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 31 08.31 | +30 30 32.3 | /           | /           | /           | /           |
| 2518 | 3C286_4        | PT2023_0016 | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 31 08.31 | +30 30 32.3 | /           | /           | /           | /           |
| 2519 | 3C286_5        | PT2023_0016 | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 134           | 13 31 08.31 | +30 30 32.3 | /           | /           | /           | /           |
| 2520 | DEC-070248-8   | N2023_1     | 2024-07-26 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1791          | 11 23 00.00 | -07 02 48.3 | /           | /           | /           | /           |
| 2521 | DEC-070248-8   | N2023_1     | 2024-07-26 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 354           | 11 23 00.00 | -07 02 48.3 | /           | /           | /           | /           |
| 2522 | l15.4_b10.0_1  | PT2023_0048 | 2024-07-26 | 19波束接收机  | all      | psr(4k)   | OnOff             | 1735          | /           | /           | 17 42 49.82 | 17 42 55.84 | -10 44 12.3 | -10 41 40.2 |
| 2523 | J1915+1647     | PT2023_0117 | 2024-07-26 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 7392          | /           | /           | 19 15 19.10 | /           | +07 13 42.0 | /           |
| 2524 | J2002+3217     | PT2023_0117 | 2024-07-26 | 19波束接收机  | all      | psr(4k)   | SwiftCalibration  | 10727         | /           | /           | 20 02 04.42 | /           | +07 13 42.0 | /           |
| 2525 | 1924+334       | PT2023_0117 | 2024-07-26 | 19波束接收机  | all      | psr(4k)   | OnOff             | 3044          | /           | /           | 19 24 17.48 | 19 24 17.48 | +33 29 29.7 | +33 20 00.0 |
| 2526 | J1845+0201g    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration  | 1076          | /           | /           | 18 45 03.00 | /           | +02 01 49.0 | /           |
| 2527 | J1845+0201g    | ZD2023_2    | 2024-07-26 | 19波束接收机  | all      | spec(F)   | SwiftCalibration  | 107           | /           | /           | 18 45 03.00 | /           | +02 01 49.0 | /           |
| 2528 | J1924+1343g    | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 897           | 19 24 15.90 | +13 44 36.0 | /           | /           | /           | /           |
| 2529 | J1924+1343g    | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 89            | 19 24 15.90 | +13 44 36.0 | /           | /           | /           | /           |
| 2530 | G61.80+4.91    | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 28 41.09 | +27 50 47.6 | /           | /           | /           | /           |
| 2531 | G61.80+4.91    | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 28 41.09 | +27 50 47.6 | /           | /           | /           | /           |
| 2532 | G62.53+4.83    | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 30 35.62 | +28 27 01.5 | /           | /           | /           | /           |
| 2533 | G62.53+4.83    | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 30 35.62 | +28 27 01.5 | /           | /           | /           | /           |
| 2534 | G64.29+3.98    | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 37 51.04 | +29 35 00.5 | /           | /           | /           | /           |
| 2535 | G64.29+3.98    | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 37 51.04 | +29 35 00.5 | /           | /           | /           | /           |
| 2536 | J195353+302538 | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | Tracking          | 2684          | 19 53 53.30 | +30 25 38.0 | /           | /           | /           | /           |
| 2537 | J195353+302538 | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | Tracking          | 266           | 19 53 53.30 | +30 25 38.0 | /           | /           | /           | /           |

| ID   | source_name                      | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode         | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|----------------------------------|-------------|------------|----------|----------|-----------|------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2538 | J195557+311424                   | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | Tracking         | 2684          | 19 55 57.11 | +31 14 24.3 | /           | /           | /           | /           |
| 2539 | J195557+311424                   | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | Tracking         | 266           | 19 55 57.11 | +31 14 24.3 | /           | /           | /           | /           |
| 2540 | G74.86-1.10                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 20 24 59.30 | +35 51 27.2 | /           | /           | /           | /           |
| 2541 | G74.86-1.10                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 20 24 59.30 | +35 51 27.2 | /           | /           | /           | /           |
| 2542 | G84.49-4.58                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(1k)   | SnapShotCal      | 1031          | 21 09 42.95 | +41 11 10.5 | /           | /           | /           | /           |
| 2543 | G84.49-4.58                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 21 09 42.95 | +41 11 10.5 | /           | /           | /           | /           |
| 2544 | FRB20240114A                     | ZD2023_5    | 2024-07-27 | 19波束接收机  | beam1    | psr(4k)   | Tracking         | 565           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 2545 | FRB20240724R                     | ZD2023_5    | 2024-07-27 | 19波束接收机  | all      | psr(4k)   | Tracking         | 3843          | 23 38 14.00 | +32 21 10.3 | /           | /           | /           | /           |
| 2546 | G124.81-8.90                     | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShotCal      | 4113          | 01 04 01.99 | +53 55 46.6 | /           | /           | /           | /           |
| 2547 | G124.81-8.90                     | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 01 04 01.99 | +53 55 46.6 | /           | /           | /           | /           |
| 2548 | G127.40-8.98                     | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShot         | 3756          | 01 21 15.92 | +53 37 54.4 | /           | /           | /           | /           |
| 2549 | G127.40-8.98                     | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 01 21 15.92 | +53 37 54.4 | /           | /           | /           | /           |
| 2550 | J0034-0534                       | PT2023_0137 | 2024-07-27 | 19波束接收机  | beam1    | psr(4k)   | SwiftCalibration | 565           | /           | /           | 00 34 21.83 | /           | -05 34 36.7 | /           |
| 2551 | FRB20201124A                     | PT2023_0208 | 2024-07-27 | 19波束接收机  | beam1    | psr(4k)   | Tracking         | 941           | 05 08 03.51 | +26 03 38.5 | /           | /           | /           | /           |
| 2552 | source_35                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 03 16 21.21 | 03 15 35.21 | +00 28 46.1 | +00 28 46.1 |
| 2553 | source_64                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 03 29 19.59 | 03 28 33.29 | -06 28 40.5 | -06 28 40.5 |
| 2554 | DEC+080720-c                     | N2023_1     | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF     | 266           | 05 00 00.00 | +08 07 20.1 | 05 00 00.00 | 07 00 00.00 | +08 07 20.1 | +08 07 20.1 |
| 2555 | source_66                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 543           | /           | /           | 07 50 40.75 | 07 49 50.59 | +23 29 39.5 | +23 29 39.5 |
| 2556 | source_37                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 07 43 45.47 | 07 42 36.54 | +48 08 13.4 | +48 08 13.4 |
| 2557 | Dec+6217_08_06(1bit&1bit1k&2bit) | ZD2023_1_1  | 2024-07-27 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle   | 4610          | 08 00 00.00 | +62 17 50.1 | /           | /           | /           | /           |
| 2558 | Dec+6217_08_06                   | ZD2023_1_2  | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle   | 2769          | 08 00 00.00 | +62 17 50.1 | /           | /           | /           | /           |
| 2559 | source_47                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 13 41 00.38 | 13 40 01.14 | +39 03 24.8 | +39 03 24.8 |
| 2560 | source_43                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 13 57 00.47 | 13 55 57.20 | +43 21 43.3 | +43 21 43.3 |
| 2561 | source_53                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 15 06 03.31 | 15 04 41.94 | +55 34 26.1 | +55 34 26.1 |
| 2562 | source_46                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 14 58 18.17 | 14 57 19.93 | +37 49 58.6 | +37 49 58.6 |
| 2563 | source_41                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 16 03 23.45 | 16 02 23.41 | +39 59 08.6 | +39 59 08.6 |
| 2564 | source_52                        | PT2023_0024 | 2024-07-27 | 19波束接收机  | all      | spec(W+N) | OnOff            | 322           | /           | /           | 16 43 52.62 | 16 42 52.59 | +39 59 00.2 | +39 59 00.2 |
| 2565 | J1838+1507g                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration | 1076          | /           | /           | 18 38 36.60 | /           | +15 07 36.0 | /           |
| 2566 | J1838+1507g                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SwiftCalibration | 107           | /           | /           | 18 38 36.60 | /           | +15 07 36.0 | /           |
| 2567 | J1848+1245g                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | Tracking         | 897           | 18 48 07.30 | +12 45 39.0 | /           | /           | /           | /           |
| 2568 | J1848+1245g                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | Tracking         | 89            | 18 48 07.30 | +12 45 39.0 | /           | /           | /           | /           |
| 2569 | G66.39+9.32                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShotCal      | 4113          | 19 20 13.84 | +33 55 26.2 | /           | /           | /           | /           |
| 2570 | G66.39+9.32                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 19 20 13.84 | +33 55 26.2 | /           | /           | /           | /           |
| 2571 | G66.74+9.07                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShot         | 3756          | 19 22 03.49 | +34 06 44.1 | /           | /           | /           | /           |
| 2572 | G66.74+9.07                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 19 22 03.49 | +34 06 44.1 | /           | /           | /           | /           |
| 2573 | G61.89+2.54                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShot         | 3756          | 19 38 15.76 | +26 47 31.0 | /           | /           | /           | /           |
| 2574 | G61.89+2.54                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 19 38 15.76 | +26 47 31.0 | /           | /           | /           | /           |
| 2575 | G60.72+2.03                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SnapShot         | 3756          | 19 37 41.03 | +25 31 12.3 | /           | /           | /           | /           |
| 2576 | G60.72+2.03                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 19 37 41.03 | +25 31 12.3 | /           | /           | /           | /           |
| 2577 | J1945+2410g                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | psr(2k)   | SwiftCalibration | 1076          | /           | /           | 19 45 16.00 | /           | +24 10 29.0 | /           |
| 2578 | J1945+2410g                      | ZD2023_2    | 2024-07-27 | 19波束接收机  | all      | spec(F)   | SwiftCalibration | 107           | /           | /           | 19 45 16.00 | /           | +24 10 29.0 | /           |
| 2579 | G73.78+5.68                      | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShot         | 3756          | 19 53 26.18 | +38 38 05.3 | /           | /           | /           | /           |
| 2580 | G73.78+5.68                      | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 19 53 26.18 | +38 38 05.3 | /           | /           | /           | /           |
| 2581 | G78.33+6.44                      | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShot         | 3756          | 20 02 16.40 | +42 54 25.0 | /           | /           | /           | /           |
| 2582 | G78.33+6.44                      | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 20 02 16.40 | +42 54 25.0 | /           | /           | /           | /           |
| 2583 | G86.65+7.63                      | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShotCal      | 4113          | 20 22 30.84 | +50 29 37.0 | /           | /           | /           | /           |
| 2584 | G86.65+7.63                      | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 20 22 30.84 | +50 29 37.0 | /           | /           | /           | /           |
| 2585 | FRB20240114A                     | PT2023_0073 | 2024-07-28 | 19波束接收机  | beam1    | psr(4k)   | Tracking         | 377           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 2586 | FRB20240724R                     | ZD2023_5    | 2024-07-28 | 19波束接收机  | all      | psr(4k)   | Tracking         | 2682          | 23 38 14.00 | +32 21 10.3 | /           | /           | /           | /           |
| 2587 | G168.34-2.12                     | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(1k)   | SnapShotCal      | 1031          | 05 05 58.08 | +37 24 31.6 | /           | /           | /           | /           |
| 2588 | G168.34-2.12                     | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal      | 408           | 05 05 58.08 | +37 24 31.6 | /           | /           | /           | /           |
| 2589 | G178.08-1.53                     | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 05 35 00.48 | +29 45 19.6 | /           | /           | /           | /           |
| 2590 | G178.08-1.53                     | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot         | 372           | 05 35 00.48 | +29 45 19.6 | /           | /           | /           | /           |
| 2591 | G180.33-1.36                     | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(1k)   | SnapShot         | 941           | 05 41 09.31 | +27 56 42.5 | /           | /           | /           | /           |

| ID   | source_name  | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|--------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2592 | G180.33-1.36 | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 41 09.31 | +27 56 42.5 | /           | /           | /           | /           |
| 2593 | G182.92-1.44 | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 46 54.82 | +25 41 32.9 | /           | /           | /           | /           |
| 2594 | G182.92-1.44 | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 46 54.82 | +25 41 32.9 | /           | /           | /           | /           |
| 2595 | G186.25+1.61 | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 05 56.16 | +24 21 04.4 | /           | /           | /           | /           |
| 2596 | G186.25+1.61 | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 05 56.16 | +24 21 04.4 | /           | /           | /           | /           |
| 2597 | G193.63+4.41 | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 31 32.74 | +19 09 53.8 | /           | /           | /           | /           |
| 2598 | G193.63+4.41 | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 31 32.74 | +19 09 53.8 | /           | /           | /           | /           |
| 2599 | source_45    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 09 34 47.28 | 09 33 37.52 | +48 44 51.2 | +48 44 51.2 |
| 2600 | source_51    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 10 22 46.33 | 10 21 48.21 | +37 40 24.4 | +37 40 24.4 |
| 2601 | source_48    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 10 15 00.62 | 10 13 53.48 | +46 45 24.3 | +46 45 24.3 |
| 2602 | source_30    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 10 26 54.59 | 10 26 08.59 | -00 32 29.4 | -00 32 29.4 |
| 2603 | DEC-074608-9 | N2023_1     | 2024-07-28 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | -07 46 08.7 | /           | /           | /           | /           |
| 2604 | DEC-074608-9 | N2023_1     | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | -07 46 08.7 | /           | /           | /           | /           |
| 2605 | source_26    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 12 04 03.35 | 12 02 42.74 | +55 12 17.6 | +55 12 17.6 |
| 2606 | source_25    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 12 11 19.16 | 12 10 06.71 | +50 35 16.8 | +50 35 16.8 |
| 2607 | source_27    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 12 59 51.95 | 12 58 38.52 | +51 12 43.8 | +51 12 43.8 |
| 2608 | source_29    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 13 14 59.83 | 13 13 46.30 | +51 16 21.2 | +51 16 21.2 |
| 2609 | source_28    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 432           | /           | /           | 12 57 48.75 | 12 56 32.70 | +52 46 45.3 | +52 46 45.3 |
| 2610 | DEC+445740-d | N2023_1     | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 14 00 00.00 | +44 57 40.5 | 14 00 00.00 | 16 00 00.00 | +44 57 40.5 | +44 57 40.5 |
| 2611 | source_33    | PT2023_0024 | 2024-07-28 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 17 16 44.04 | 17 15 49.31 | +32 48 22.5 | +32 48 22.5 |
| 2612 | G45.56+9.15  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 41 10.82 | +15 20 22.6 | /           | /           | /           | /           |
| 2613 | G45.56+9.15  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 41 10.82 | +15 20 22.6 | /           | /           | /           | /           |
| 2614 | G40.13+3.98  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 50 18.99 | +08 12 45.2 | /           | /           | /           | /           |
| 2615 | G40.13+3.98  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 50 18.99 | +08 12 45.2 | /           | /           | /           | /           |
| 2616 | G40.47+3.73  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 18 51 51.44 | +08 24 08.6 | /           | /           | /           | /           |
| 2617 | G40.47+3.73  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 18 51 51.44 | +08 24 08.6 | /           | /           | /           | /           |
| 2618 | G37.34-4.07  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 13 57.69 | +02 03 16.9 | /           | /           | /           | /           |
| 2619 | G37.34-4.07  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 13 57.69 | +02 03 16.9 | /           | /           | /           | /           |
| 2620 | G37.68-4.32  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 15 29.64 | +02 14 27.1 | /           | /           | /           | /           |
| 2621 | G37.68-4.32  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 15 29.64 | +02 14 27.1 | /           | /           | /           | /           |
| 2622 | G54.61-9.07  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 05 19.15 | +14 38 20.4 | /           | /           | /           | /           |
| 2623 | G54.61-9.07  | ZD2023_2    | 2024-07-28 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 05 19.15 | +14 38 20.4 | /           | /           | /           | /           |
| 2624 | G55.88-7.71  | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 20 03 13.33 | +16 25 05.6 | /           | /           | /           | /           |
| 2625 | G55.88-7.71  | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 03 13.33 | +16 25 05.6 | /           | /           | /           | /           |
| 2626 | source_31    | PT2023_0024 | 2024-07-29 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 20 40 51.16 | 20 40 05.01 | -04 41 43.6 | -04 41 43.6 |
| 2627 | source_55    | PT2023_0024 | 2024-07-29 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 20 46 38.10 | 20 45 52.10 | +00 20 21.6 | +00 20 21.6 |
| 2628 | source_34    | PT2023_0024 | 2024-07-29 | 19波束接收机  | all      | spec(W+N) | OnOff             | 322           | /           | /           | 21 09 41.42 | 21 08 55.42 | +00 37 39.9 | +00 37 39.9 |
| 2629 | FRB20240114A | ZD2023_5    | 2024-07-29 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 21 27 39.84 | +04 19 46.3 | /           | /           | /           | /           |
| 2630 | G91.05-5.76  | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 21 39 46.17 | +44 55 10.7 | /           | /           | /           | /           |
| 2631 | G91.05-5.76  | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 39 46.17 | +44 55 10.7 | /           | /           | /           | /           |
| 2632 | G96.72-8.13  | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 22 13 32.90 | +46 32 48.5 | /           | /           | /           | /           |
| 2633 | G96.72-8.13  | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 22 13 32.90 | +46 32 48.5 | /           | /           | /           | /           |
| 2634 | DEC-085109-9 | N2023_1     | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 862           | 11 23 00.00 | -08 51 09.3 | /           | /           | /           | /           |
| 2635 | DEC-085109-9 | N2023_1     | 2024-07-29 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 171           | 11 23 00.00 | -08 51 09.3 | /           | /           | /           | /           |
| 2636 | 214          | PT2023_0063 | 2024-07-29 | 19波束接收机  | all      | psr(4k)   | DriftWithAngle    | 15635         | 01 16 00.00 | +63 22 50.7 | /           | /           | /           | /           |
| 2637 | 214          | PT2023_0063 | 2024-07-29 | 19波束接收机  | all      | spec(W+N) | DriftWithAngle    | 968           | 01 16 00.00 | +63 22 50.7 | /           | /           | /           | /           |
| 2638 | G152.30-2.63 | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 04 04 18.27 | +48 55 48.9 | /           | /           | /           | /           |
| 2639 | G152.30-2.63 | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 04 04 18.27 | +48 55 48.9 | /           | /           | /           | /           |
| 2640 | G178.42-1.78 | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 34 52.55 | +29 19 48.3 | /           | /           | /           | /           |
| 2641 | G178.42-1.78 | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 34 52.55 | +29 19 48.3 | /           | /           | /           | /           |
| 2642 | G180.72-1.19 | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 05 42 44.38 | +27 42 07.6 | /           | /           | /           | /           |
| 2643 | G180.72-1.19 | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 05 42 44.38 | +27 42 07.6 | /           | /           | /           | /           |
| 2644 | G180.28+1.44 | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 51 56.11 | +29 26 20.6 | /           | /           | /           | /           |
| 2645 | G180.28+1.44 | ZD2023_2    | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 51 56.11 | +29 26 20.6 | /           | /           | /           | /           |

| ID   | source_name   | PID      | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC         | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|---------------|----------|------------|----------|----------|-----------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2646 | G189.57+1.44  | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 12 16.63 | +21 21 33.2 | /           | /           | /           | /           |
| 2647 | G189.57+1.44  | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 12 16.63 | +21 21 33.2 | /           | /           | /           | /           |
| 2648 | G191.09+1.69  | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 16 19.72 | +20 08 55.3 | /           | /           | /           | /           |
| 2649 | G191.09+1.69  | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 16 19.72 | +20 08 55.3 | /           | /           | /           | /           |
| 2650 | DEC+642751-13 | N2023_1  | 2024-07-29 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 2015          | 11 23 00.00 | +64 27 51.3 | /           | /           | /           | /           |
| 2651 | DEC+642751-13 | N2023_1  | 2024-07-29 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 399           | 11 23 00.00 | +64 27 51.3 | /           | /           | /           | /           |
| 2652 | DEC+290411-d  | N2023_1  | 2024-07-29 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 15 00 00.00 | +29 04 11.7 | 15 00 00.00 | 17 00 00.00 | +29 04 11.7 | +29 04 11.7 |
| 2653 | G42.72+3.90   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 55 21.70 | +10 28 53.5 | /           | /           | /           | /           |
| 2654 | G42.72+3.90   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 55 21.70 | +10 28 53.5 | /           | /           | /           | /           |
| 2655 | G44.14-3.13   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 23 19.23 | +08 29 46.8 | /           | /           | /           | /           |
| 2656 | G44.14-3.13   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 23 19.23 | +08 29 46.8 | /           | /           | /           | /           |
| 2657 | G43.70-3.73   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 24 36.06 | +07 49 46.8 | /           | /           | /           | /           |
| 2658 | G43.70-3.73   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 24 36.06 | +07 49 46.8 | /           | /           | /           | /           |
| 2659 | G38.32-8.47   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 31 23.72 | +00 52 58.8 | /           | /           | /           | /           |
| 2660 | G38.32-8.47   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 31 23.72 | +00 52 58.8 | /           | /           | /           | /           |
| 2661 | G35.92-9.91   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 19 32 09.09 | -01 52 49.9 | /           | /           | /           | /           |
| 2662 | G35.92-9.91   | ZD2023_2 | 2024-07-29 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 32 09.09 | -01 52 49.9 | /           | /           | /           | /           |
| 2663 | G44.82-10.08  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 19 49 14.76 | +05 46 47.2 | /           | /           | /           | /           |
| 2664 | G44.82-10.08  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 49 14.76 | +05 46 47.2 | /           | /           | /           | /           |
| 2665 | G54.26-2.37   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 40 33.14 | +17 43 58.6 | /           | /           | /           | /           |
| 2666 | G54.26-2.37   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 40 33.14 | +17 43 58.6 | /           | /           | /           | /           |
| 2667 | G55.00-2.46   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 42 23.09 | +18 19 43.2 | /           | /           | /           | /           |
| 2668 | G55.00-2.46   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 42 23.09 | +18 19 43.2 | /           | /           | /           | /           |
| 2669 | G60.57-8.90   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 17 51.76 | +19 43 08.5 | /           | /           | /           | /           |
| 2670 | G60.57-8.90   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 17 51.76 | +19 43 08.5 | /           | /           | /           | /           |
| 2671 | G86.35-1.36   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 21 03 29.79 | +44 43 27.3 | /           | /           | /           | /           |
| 2672 | G86.35-1.36   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 03 29.79 | +44 43 27.3 | /           | /           | /           | /           |
| 2673 | FRB20240724R  | ZD2023_5 | 2024-07-30 | 19波束接收机  | all      | psr(4k)   | Tracking          | 2682          | 23 38 14.00 | +32 21 10.3 | /           | /           | /           | /           |
| 2674 | G181.80-1.53  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 05 43 58.85 | +26 36 30.4 | /           | /           | /           | /           |
| 2675 | G181.80-1.53  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 05 43 58.85 | +26 36 30.4 | /           | /           | /           | /           |
| 2676 | G187.27+0.85  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(1k)   | SnapShot          | 941           | 06 05 13.34 | +23 04 57.2 | /           | /           | /           | /           |
| 2677 | G187.27+0.85  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 06 05 13.34 | +23 04 57.2 | /           | /           | /           | /           |
| 2678 | G188.84+1.53  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(1k)   | SnapShotZCal      | 3940          | 06 11 04.76 | +22 02 35.4 | /           | /           | /           | /           |
| 2679 | G188.84+1.53  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShotZCal      | 1558          | 06 11 04.76 | +22 02 35.4 | /           | /           | /           | /           |
| 2680 | G189.96+1.61  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(1k)   | SnapShotCal       | 1031          | 06 13 43.18 | +21 05 49.2 | /           | /           | /           | /           |
| 2681 | G189.96+1.61  | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 06 13 43.18 | +21 05 49.2 | /           | /           | /           | /           |
| 2682 | DEC+651111-6  | N2023_1  | 2024-07-30 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1299          | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2683 | DEC+651111-6  | N2023_1  | 2024-07-30 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 257           | 11 23 00.00 | +65 11 11.7 | /           | /           | /           | /           |
| 2684 | DEC+355555-d  | N2023_1  | 2024-07-30 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 13 00 00.00 | +35 55 55.5 | 13 00 00.00 | 15 00 00.00 | +35 55 55.5 | +35 55 55.5 |
| 2685 | DEC-082929-8  | N2023_1  | 2024-07-30 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 672           | 11 23 00.00 | -08 29 29.1 | /           | /           | /           | /           |
| 2686 | DEC-082929-8  | N2023_1  | 2024-07-30 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 133           | 11 23 00.00 | -08 29 29.1 | /           | /           | /           | /           |
| 2687 | G48.54+2.80   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 19 10 14.72 | +15 09 12.2 | /           | /           | /           | /           |
| 2688 | G48.54+2.80   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 19 10 14.72 | +15 09 12.2 | /           | /           | /           | /           |
| 2689 | G53.33+2.46   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 20 48.31 | +19 14 19.7 | /           | /           | /           | /           |
| 2690 | G53.33+2.46   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 20 48.31 | +19 14 19.7 | /           | /           | /           | /           |
| 2691 | G53.68+2.20   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 22 26.24 | +19 25 17.8 | /           | /           | /           | /           |
| 2692 | G53.68+2.20   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 22 26.24 | +19 25 17.8 | /           | /           | /           | /           |
| 2693 | G56.32+2.54   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 26 29.27 | +21 54 29.4 | /           | /           | /           | /           |
| 2694 | G56.32+2.54   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 26 29.27 | +21 54 29.4 | /           | /           | /           | /           |
| 2695 | G58.13+2.12   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 19 31 50.50 | +23 17 41.7 | /           | /           | /           | /           |
| 2696 | G58.13+2.12   | ZD2023_2 | 2024-07-30 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 19 31 50.50 | +23 17 41.7 | /           | /           | /           | /           |
| 2697 | G81.56+8.64   | ZD2023_2 | 2024-07-31 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 20 00 58.00 | +46 47 07.0 | /           | /           | /           | /           |
| 2698 | G81.56+8.64   | ZD2023_2 | 2024-07-31 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 20 00 58.00 | +46 47 07.0 | /           | /           | /           | /           |
| 2699 | G88.80+3.73   | ZD2023_2 | 2024-07-31 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 20 50 02.74 | +49 53 06.7 | /           | /           | /           | /           |

| ID   | source_name   | PID         | obs_date   | Receiver | beam_num | backend   | obs_mode          | data_size(GB) | RA          | DEC          | StartRA/ON  | EndRA/OFF   | StartDEC/ON | EndDEC/OFF  |
|------|---------------|-------------|------------|----------|----------|-----------|-------------------|---------------|-------------|--------------|-------------|-------------|-------------|-------------|
| 2700 | G88.80+3.73   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 20 50 02.74 | +49 53 06.7  | /           | /           | /           | /           |
| 2701 | G90.56+2.88   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 21 01 12.07 | +50 40 52.0  | /           | /           | /           | /           |
| 2702 | G90.56+2.88   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 01 12.07 | +50 40 52.0  | /           | /           | /           | /           |
| 2703 | G94.47+1.36   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 3756          | 21 25 39.67 | +52 28 01.3  | /           | /           | /           | /           |
| 2704 | G94.47+1.36   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 25 39.67 | +52 28 01.3  | /           | /           | /           | /           |
| 2705 | G93.89-0.51   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 4113          | 21 31 11.72 | +50 42 42.9  | /           | /           | /           | /           |
| 2706 | G93.89-0.51   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 21 31 11.72 | +50 42 42.9  | /           | /           | /           | /           |
| 2707 | G89.24-2.12   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | psr(2k)   | SnapShot          | 1882          | 21 17 55.11 | +46 18 46.4  | /           | /           | /           | /           |
| 2708 | G89.24-2.12   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | spec(F)   | SnapShot          | 372           | 21 17 55.11 | +46 18 46.4  | /           | /           | /           | /           |
| 2709 | FRB20240114A  | ZD2023_5    | 2024-07-31 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 21 27 39.84 | +04 19 46.3  | /           | /           | /           | /           |
| 2710 | DEC+114402-a  | N2023_1     | 2024-07-31 | 19波束接收机  | all      | spec(W+N) | MultiBeamOTF      | 266           | 00 45 00.00 | +11 44 02.1  | 00 45 00.00 | 02 45 00.00 | +11 44 02.1 | +11 44 02.1 |
| 2711 | DEC-082929-9  | N2023_1     | 2024-07-31 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 1164          | 11 23 00.00 | -08 29 29.1  | /           | /           | /           | /           |
| 2712 | DEC-082929-9  | N2023_1     | 2024-07-31 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 231           | 11 23 00.00 | -08 29 29.1  | /           | /           | /           | /           |
| 2713 | FRB190520B    | PT2023_0077 | 2024-07-31 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 1129          | 16 02 04.27 | -11 17 17.1  | /           | /           | /           | /           |
| 2714 | DEC-070248-10 | N2023_1     | 2024-07-31 | 19波束接收机  | all      | psr(1k)   | DecDriftWithAngle | 571           | 11 23 00.00 | -07 02 48.3  | /           | /           | /           | /           |
| 2715 | DEC-070248-10 | N2023_1     | 2024-07-31 | 19波束接收机  | all      | spec(W+N) | DecDriftWithAngle | 113           | 11 23 00.00 | -07 02 48.3  | /           | /           | /           | /           |
| 2716 | G42.38+4.15   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | psr(2k)   | SnapShotCal       | 2061          | 18 53 48.71 | +10 17 30.0  | /           | /           | /           | /           |
| 2717 | G42.38+4.15   | ZD2023_2    | 2024-07-31 | 19波束接收机  | all      | spec(F)   | SnapShotCal       | 408           | 18 53 48.71 | +10 17 30.0  | /           | /           | /           | /           |
| 2718 | J2033+1734    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 20 33 27.51 | +17 34 58.47 | /           | /           | /           | /           |
| 2719 | J2145-0750    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 45 50.46 | -07 50 18.51 | /           | /           | /           | /           |
| 2720 | J2229+2643    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 22 29 50.88 | +26 43 57.65 | /           | /           | /           | /           |
| 2721 | J2234+0944    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 22 34 46.85 | +09 44 30.25 | /           | /           | /           | /           |
| 2722 | J2302+4442    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 23 02 46.98 | +44 42 22.08 | /           | /           | /           | /           |
| 2723 | J2322+2057    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 23 22 22.33 | +20 57 02.68 | /           | /           | /           | /           |
| 2724 | J2317+1439    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 23 17 09.23 | +14 39 31.26 | /           | /           | /           | /           |
| 2725 | J0030+0451    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 00 30 27.43 | +04 51 39.71 | /           | /           | /           | /           |
| 2726 | J0751+1807    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 07 51 09.16 | +18 07 38.49 | /           | /           | /           | /           |
| 2727 | J1012+5307    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 10 12 33.44 | +53 07 02.28 | /           | /           | /           | /           |
| 2728 | J1022+1001    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 10 22 57.99 | +10 01 52.76 | /           | /           | /           | /           |
| 2729 | J1024-0719    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 10 24 38.67 | -07 19 19.59 | /           | /           | /           | /           |
| 2730 | J1221-0633    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 12 21 24.76 | -06 33 51.42 | /           | /           | /           | /           |
| 2731 | J1300+1240    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 13 00 03.58 | +12 40 56.47 | /           | /           | /           | /           |
| 2732 | J1518+4904    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 565           | 15 18 16.80 | +49 04 34.25 | /           | /           | /           | /           |
| 2733 | J1640+2224    | ZD2021_3    | 2021-08-01 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 16 40 16.74 | +22 24 08.82 | /           | /           | /           | /           |
| 2734 | J2234+0611    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 22 34 23.07 | +06 11 28.69 | /           | /           | /           | /           |
| 2735 | J0218+4232    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 02 18 06.36 | +42 32 17.38 | /           | /           | /           | /           |
| 2736 | J0337+1715    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 03 37 43.83 | +17 15 14.83 | /           | /           | /           | /           |
| 2737 | J0406+3039    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 04 06 32.50 | +30 39 43.00 | /           | /           | /           | /           |
| 2738 | J0613-0200    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 06 13 43.98 | -02 00 47.23 | /           | /           | /           | /           |
| 2739 | J0621+2514    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 06 21 10.85 | +25 14 03.83 | /           | /           | /           | /           |
| 2740 | J0621+1002    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 06 21 22.11 | +10 02 38.73 | /           | /           | /           | /           |
| 2741 | J0709+0458    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 07 09 08.36 | +04 58 51.49 | /           | /           | /           | /           |
| 2742 | J1713+0747    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 13 49.53 | +07 47 37.48 | /           | /           | /           | /           |
| 2743 | J1738+0333    | ZD2021_3    | 2021-08-02 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 38 53.97 | +03 33 10.88 | /           | /           | /           | /           |
| 2744 | J2150-0326    | ZD2021_3    | 2021-08-03 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 21 50 27.23 | -03 26 32.80 | /           | /           | /           | /           |
| 2745 | J0102+4839    | ZD2021_3    | 2021-08-03 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 01 02 50.67 | +48 39 42.75 | /           | /           | /           | /           |
| 2746 | J0636+5129    | ZD2021_3    | 2021-08-03 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 06 36 04.85 | +51 28 59.97 | /           | /           | /           | /           |
| 2747 | J0645+5158    | ZD2021_3    | 2021-08-03 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 06 45 59.08 | +51 58 14.92 | /           | /           | /           | /           |
| 2748 | J2043+1711    | ZD2021_3    | 2021-08-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 20 43 20.88 | +17 11 28.91 | /           | /           | /           | /           |
| 2749 | J1713+0747    | ZD2021_3    | 2021-08-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 17 13 49.53 | +07 47 37.48 | /           | /           | /           | /           |
| 2750 | J1853+1303    | ZD2021_3    | 2021-08-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 18 53 57.32 | +13 03 44.05 | /           | /           | /           | /           |
| 2751 | J1832-0836    | ZD2021_3    | 2021-08-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 18 32 27.59 | -08 36 55.02 | /           | /           | /           | /           |
| 2752 | J1843-1113    | ZD2021_3    | 2021-08-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 18 43 41.26 | -11 13 31.07 | /           | /           | /           | /           |
| 2753 | J1918-0642    | ZD2021_3    | 2021-08-04 | 19波束接收机  | beam1    | psr(4k)   | Tracking          | 377           | 19 18 48.03 | -06 42 34.90 | /           | /           | /           | /           |

| ID   | source_name  | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|--------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 2754 | J1910+1256   | ZD2021_3 | 2021-08-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 2755 | J1944+0907   | ZD2021_3 | 2021-08-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 2756 | J2017+0603   | ZD2021_3 | 2021-08-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 2757 | J1955+2908   | ZD2021_3 | 2021-08-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 2758 | J1713+0747   | ZD2021_3 | 2021-08-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2759 | J2022+2534   | ZD2021_3 | 2021-08-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 2760 | J2214+3000   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 2761 | J2234+0611   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 2762 | J2317+1439   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 2763 | J0023+0923   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 2764 | J0034-0534   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 2765 | J0218+4232   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 2766 | J0340+4130   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 2767 | J1012+5307   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 2768 | J1022+1001   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 2769 | J1024-0719   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 2770 | J1453+1902   | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 2771 | J1713+0747_1 | ZD2021_3 | 2021-08-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2772 | J2043+1711   | ZD2021_3 | 2021-08-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 2773 | J2222-0137   | ZD2021_3 | 2021-08-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 2774 | J1643-1224   | ZD2021_3 | 2021-08-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 2775 | J1713+0747   | ZD2021_3 | 2021-08-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2776 | J1744-1134   | ZD2021_3 | 2021-08-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 2777 | J1857+0943   | ZD2021_3 | 2021-08-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 2778 | J1903+0327   | ZD2021_3 | 2021-08-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 2779 | J1911-1114   | ZD2021_3 | 2021-08-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 2780 | J1911+1347   | ZD2021_3 | 2021-08-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 2781 | J2010-1323   | ZD2021_3 | 2021-08-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 2782 | J1923+2515   | ZD2021_3 | 2021-08-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 2783 | J1946+3417   | ZD2021_3 | 2021-08-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 2784 | J1312+0051   | ZD2021_3 | 2021-08-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 12 46.64 | +00 51 00.10 | /          | /         | /           | /          |
| 2785 | J1327+3423   | ZD2021_3 | 2021-08-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 2786 | J1630+3734   | ZD2021_3 | 2021-08-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 2787 | J1713+0747_1 | ZD2021_3 | 2021-08-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2788 | J1741+1351   | ZD2021_3 | 2021-08-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 2789 | J1745+1017   | ZD2021_3 | 2021-08-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 45 33.84 | +10 17 52.52 | /          | /         | /           | /          |
| 2790 | J2019+2425   | ZD2021_3 | 2021-08-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 2791 | J2322+2057   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 2792 | J0030+0451   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 2793 | J0406+3039   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 2794 | J0621+1002   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 2795 | J0613-0200   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 2796 | J0636+5129   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 2797 | J0645+5158   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 2798 | J0751+1807   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 2799 | J1300+1240   | ZD2021_3 | 2021-08-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 2800 | J2145-0750   | ZD2021_3 | 2021-08-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 2801 | J2150-0326   | ZD2021_3 | 2021-08-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 2802 | J2229+2643   | ZD2021_3 | 2021-08-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 2803 | J2302+4442   | ZD2021_3 | 2021-08-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 2804 | J1713+0747   | ZD2021_3 | 2021-08-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2805 | J2234+0944   | ZD2021_3 | 2021-08-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 2806 | J0509+0856   | ZD2021_3 | 2021-08-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 2807 | J0605+3757   | ZD2021_3 | 2021-08-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 05 05.54 | +37 57 35.96 | /          | /         | /           | /          |

| ID   | source_name  | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|--------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 2808 | J0732+2314   | ZD2021_3 | 2021-08-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 32 37.52 | +23 14 54.21 | /          | /         | /           | /          |
| 2809 | J1640+2224   | ZD2021_3 | 2021-08-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 2810 | J2033+1734   | ZD2021_3 | 2021-08-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 2811 | J1221-0633   | ZD2021_3 | 2021-08-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 12 21 24.76 | -06 33 51.42 | /          | /         | /           | /          |
| 2812 | J1713+0747_2 | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2813 | J1738+0333_2 | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 2814 | J1853+1303   | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 2815 | J1832-0836   | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 2816 | J1843-1113   | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 2817 | J1918-0642   | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 2818 | J1910+1256   | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 2819 | J1944+0907   | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 2820 | J1955+2908   | ZD2021_3 | 2021-08-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 2821 | J2017+0603   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 2822 | J2022+2534   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 2823 | J2214+3000   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 2824 | J0023+0923   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 2825 | J0218+4232   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 2826 | J0340+4130   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 2827 | J0248+4230   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 48 31.00 | +42 30 20.49 | /          | /         | /           | /          |
| 2828 | J0348+0432   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 48 43.64 | +04 32 11.46 | /          | /         | /           | /          |
| 2829 | J0337+1715   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 37 43.83 | +17 15 14.83 | /          | /         | /           | /          |
| 2830 | J0557+1550   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 57 31.45 | +15 50 06.05 | /          | /         | /           | /          |
| 2831 | J0709+0458   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 09 08.36 | +04 58 51.49 | /          | /         | /           | /          |
| 2832 | J0824+0028   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 08 24 24.84 | +00 28 00.57 | /          | /         | /           | /          |
| 2833 | J1012+5307   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 2834 | J1022+1001_2 | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 2835 | J1024-0719   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 2836 | J1312+0051   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 12 46.64 | +00 51 00.10 | /          | /         | /           | /          |
| 2837 | J1327+3423   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 2838 | J1453+1902   | ZD2021_3 | 2021-08-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 2839 | J2150-0326   | ZD2021_3 | 2021-08-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 2840 | J2234+0611   | ZD2021_3 | 2021-08-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 2841 | J2317+1439   | ZD2021_3 | 2021-08-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 2842 | J1630+3734   | ZD2021_3 | 2021-08-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 2843 | J1741+1351   | ZD2021_3 | 2021-08-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 2844 | J1643-1224   | ZD2021_3 | 2021-08-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 2845 | J2222-0137   | ZD2021_3 | 2021-08-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 2846 | J0034-0534   | ZD2021_3 | 2021-08-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 2847 | J1713+0747   | ZD2021_3 | 2021-08-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2848 | J2043+1711   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 2849 | J1744-1134   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 2850 | J1857+0943   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 2851 | J1903+0327   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 2852 | J1911-1114   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 2853 | J1911+1347   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 2854 | J2010-1323   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 2855 | J1923+2515   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 2856 | J1946+3417   | ZD2021_3 | 2021-08-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 2857 | J2019+2425   | ZD2021_3 | 2021-08-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 2858 | J1713+0747   | ZD2021_3 | 2021-08-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2859 | J0102+4839   | ZD2021_3 | 2021-08-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 01 02 50.67 | +48 39 42.75 | /          | /         | /           | /          |
| 2860 | J2229+2643   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 2861 | J2234+0944   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |

| ID   | source_name  | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|--------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 2862 | J2302+4442   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 2863 | J2322+2057   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 2864 | J0030+0451_1 | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 2865 | J0406+3039   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 2866 | J0621+1002   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 2867 | J0636+5129   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 2868 | J0613-0200   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 2869 | J0645+5158   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 2870 | J0751+1807   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 2871 | J1300+1240   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 2872 | J1221-0633   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 12 21 24.76 | -06 33 51.42 | /          | /         | /           | /          |
| 2873 | J1640+2224   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 2874 | J1713+0747   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2875 | J1738+0333   | ZD2021_3 | 2021-08-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 2876 | J1853+1303   | ZD2021_3 | 2021-08-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 2877 | J1832-0836   | ZD2021_3 | 2021-08-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 2878 | J1843-1113   | ZD2021_3 | 2021-08-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 2879 | J1918-0642   | ZD2021_3 | 2021-08-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 2880 | J1910+1256   | ZD2021_3 | 2021-08-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 2881 | J1944+0907   | ZD2021_3 | 2021-08-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 2882 | J1955+2908   | ZD2021_3 | 2021-08-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 2883 | J2017+0603   | ZD2021_3 | 2021-08-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 2884 | J2033+1734   | ZD2021_3 | 2021-08-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 2885 | J2145-0750   | ZD2021_3 | 2021-09-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 2886 | J2222-0137   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 2887 | J2234+0611   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 2888 | J2214+3000   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 2889 | J2317+1439   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 2890 | J0034-0534   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 2891 | J0023+0923   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 2892 | J0218+4232   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 2893 | J0340+4130   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 2894 | J1012+5307   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 2895 | J1022+1001   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 2896 | J1327+3423   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 2897 | J1312+0051   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 12 46.64 | +00 51 00.10 | /          | /         | /           | /          |
| 2898 | J1453+1902   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 2899 | J1630+3734   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 2900 | J1713+0747   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2901 | J1741+1351   | ZD2021_3 | 2021-09-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 2902 | J1024-0719   | ZD2021_3 | 2021-09-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 2903 | J2150-0326   | ZD2021_3 | 2021-09-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 2904 | J1643-1224   | ZD2021_3 | 2021-09-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 2905 | J1744-1134   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 2906 | J1857+0943   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 2907 | J1903+0327   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 2908 | J1911-1114   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 2909 | J1911+1347   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 2910 | J2010-1323   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 2911 | J1923+2515   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 2912 | J1946+3417   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 2913 | J2019+2425   | ZD2021_3 | 2021-09-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 2914 | J2043+1711   | ZD2021_3 | 2021-09-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 2915 | J2234+0944   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |

| ID   | source_name  | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|--------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 2916 | J2229+2643   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 2917 | J2322+2057   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 2918 | J0030+0451   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 2919 | J0406+3039   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 2920 | J0613-0200   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 2921 | J0636+5129   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 2922 | J0621+1002   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 2923 | J0751+1807   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 2924 | J1221-0633   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 12 21 24.76 | -06 33 51.42 | /          | /         | /           | /          |
| 2925 | J1300+1240   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 2926 | J1640+2224   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 2927 | J1713+0747   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2928 | J2302+4442   | ZD2021_3 | 2021-09-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 2929 | J0645+5158   | ZD2021_3 | 2021-09-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 2930 | J1738+0333_2 | ZD2021_3 | 2021-09-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 2931 | J1853+1303   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 2932 | J1832-0836   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 2933 | J1843-1113   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 2934 | J1918-0642   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 2935 | J1910+1256   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 2936 | J1944+0907   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 2937 | J1955+2908   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 2938 | J2017+0603   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 2939 | J2022+2534   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 2940 | J2033+1734   | ZD2021_3 | 2021-09-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 2941 | J2145-0750   | ZD2021_3 | 2021-09-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 2942 | J2317+1439   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 2943 | J0034-0534   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 2944 | J0023+0923   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 2945 | J0218+4232   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 2946 | J0340+4130   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 2947 | J1012+5307   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 2948 | J1022+1001   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 2949 | J1024-0719   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 2950 | J1327+3423   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 2951 | J1453+1902   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 2952 | J1713+0747   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2953 | J1741+1351   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 2954 | J2214+3000   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 2955 | J2234+0611   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 2956 | J2150-0326   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 2957 | J2222-0137   | ZD2021_3 | 2021-09-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 2958 | J1643-1224   | ZD2021_3 | 2021-09-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 2959 | J2234+0944   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 2960 | J2229+2643   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 2961 | J2322+2057   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 2962 | J0030+0451   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 2963 | J0406+3039   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 2964 | J0248+4230   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 48 31.00 | +42 30 20.49 | /          | /         | /           | /          |
| 2965 | J0337+1715   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 37 43.83 | +17 15 14.83 | /          | /         | /           | /          |
| 2966 | J0348+0432   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 48 43.64 | +04 32 11.46 | /          | /         | /           | /          |
| 2967 | J0621+1002   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 2968 | J0751+1807   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 2969 | J1640+2224   | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 2970 | J1713+0747  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2971 | J1738+0333  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 2972 | J1744-1134  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 2973 | J1857+0943  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 2974 | J1903+0327  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 2975 | J1911-1114  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 2976 | J1911+1347  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 2977 | J2010-1323  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 2978 | J1923+2515  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 2979 | J1946+3417  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 2980 | J2019+2425  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 2981 | J2043+1711  | ZD2021_3 | 2021-09-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 2982 | J2302+4442  | ZD2021_3 | 2021-09-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 2983 | J0102+4839  | ZD2021_3 | 2021-09-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 01 02 50.67 | +48 39 42.75 | /          | /         | /           | /          |
| 2984 | J0636+5129  | ZD2021_3 | 2021-09-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 2985 | J1300+1240  | ZD2021_3 | 2021-09-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 2986 | J0645+5158  | ZD2021_3 | 2021-09-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 2987 | J0613-0200  | ZD2021_3 | 2021-09-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 264           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 2988 | J2145-0750  | ZD2021_3 | 2021-09-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 2989 | J0023+0923  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 2990 | J0340+4130  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 2991 | J1713+0747  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 2992 | J1853+1303  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 2993 | J1832-0836  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 2994 | J1843-1113  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 2995 | J1918-0642  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 2996 | J1910+1256  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 2997 | J1944+0907  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 2998 | J1955+2908  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 2999 | J2017+0603  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3000 | J2022+2534  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3001 | J2033+1734  | ZD2021_3 | 2021-10-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3002 | J0218+4232  | ZD2021_3 | 2021-10-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3003 | J1022+1001  | ZD2021_3 | 2021-10-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3004 | J1453+1902  | ZD2021_3 | 2021-10-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3005 | J2317+1439  | ZD2021_3 | 2021-10-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3006 | J1327+3423  | ZD2021_3 | 2021-10-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3007 | J0034-0534  | ZD2021_3 | 2021-10-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3008 | J1024-0719  | ZD2021_3 | 2021-10-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3009 | J1312+0051  | ZD2021_3 | 2021-10-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 12 46.64 | +00 51 00.10 | /          | /         | /           | /          |
| 3010 | J1713+0747  | ZD2021_3 | 2021-10-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3011 | J1643-1224  | ZD2021_3 | 2021-10-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3012 | J1012+5307  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3013 | J1741+1351  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3014 | J1744-1134  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3015 | J1857+0943  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3016 | J1903+0327  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3017 | J1911-1114  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3018 | J1911+1347  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3019 | J2010-1323  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3020 | J1923+2515  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3021 | J1946+3417  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3022 | J2019+2425  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3023 | J2043+1711  | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |

| ID   | source_name  | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|--------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3024 | J2150-0326   | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3025 | J2234+0611   | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3026 | J2214+3000   | ZD2021_3 | 2021-10-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3027 | J2222-0137   | ZD2021_3 | 2021-10-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3028 | J0406+3039   | ZD2021_3 | 2021-10-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3029 | J1738+0333   | ZD2021_3 | 2021-10-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3030 | J2234+0944   | ZD2021_3 | 2021-10-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3031 | J2302+4442   | ZD2021_3 | 2021-10-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3032 | J2322+2057   | ZD2021_3 | 2021-10-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3033 | J0030+0451   | ZD2021_3 | 2021-10-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3034 | J0751+1807   | ZD2021_3 | 2021-10-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3035 | J2229+2643   | ZD2021_3 | 2021-10-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3036 | J1221-0633   | ZD2021_3 | 2021-10-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 12 21 24.76 | -06 33 51.42 | /          | /         | /           | /          |
| 3037 | J1640+2224   | ZD2021_3 | 2021-10-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3038 | J2145-0750   | ZD2021_3 | 2021-10-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3039 | J0621+1002   | ZD2021_3 | 2021-10-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3040 | J0636+5129   | ZD2021_3 | 2021-10-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3041 | J0645+5158   | ZD2021_3 | 2021-10-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3042 | J1713+0747_1 | ZD2021_3 | 2021-10-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3043 | J1300+1240   | ZD2021_3 | 2021-10-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 10744         | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3044 | J0613-0200   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3045 | J1853+1303   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3046 | J1832-0836   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3047 | J1843-1113   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3048 | J1918-0642   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3049 | J1910+1256   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3050 | J1944+0907   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3051 | J1955+2908   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3052 | J2017+0603   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3053 | J2022+2534   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3054 | J2033+1734   | ZD2021_3 | 2021-10-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3055 | J0218+4232   | ZD2021_3 | 2021-10-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3056 | J1022+1001   | ZD2021_3 | 2021-10-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3057 | J1012+5307   | ZD2021_3 | 2021-10-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3058 | J1024-0719   | ZD2021_3 | 2021-10-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3059 | J1327+3423   | ZD2021_3 | 2021-10-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3060 | J1453+1902   | ZD2021_3 | 2021-10-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3061 | J0340+4130   | ZD2021_3 | 2021-10-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3062 | J1643-1224   | ZD2021_3 | 2021-10-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3063 | J1741+1351   | ZD2021_3 | 2021-10-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3064 | J2214+3000   | ZD2021_3 | 2021-10-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3065 | J2234+0611   | ZD2021_3 | 2021-10-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3066 | J2317+1439   | ZD2021_3 | 2021-10-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3067 | J0023+0923   | ZD2021_3 | 2021-10-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3068 | J1713+0747   | ZD2021_3 | 2021-10-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3069 | J2150-0326   | ZD2021_3 | 2021-10-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3070 | J2222-0137   | ZD2021_3 | 2021-10-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3071 | J1312+0051   | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 12 46.64 | +00 51 00.10 | /          | /         | /           | /          |
| 3072 | J1744-1134   | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3073 | J1857+0943   | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3074 | J1903+0327   | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3075 | J1911-1114   | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3076 | J1911+1347   | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3077 | J2010-1323   | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3078 | J1923+2515  | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3079 | J1946+3417  | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3080 | J2019+2425  | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3081 | J2043+1711  | ZD2021_3 | 2021-10-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3082 | J0751+1807  | ZD2021_3 | 2021-10-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3083 | J1300+1240  | ZD2021_3 | 2021-10-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3084 | J1640+2224  | ZD2021_3 | 2021-10-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3085 | J0406+3039  | ZD2021_3 | 2021-10-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3086 | J1713+0747  | ZD2021_3 | 2021-10-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3087 | J1738+0333  | ZD2021_3 | 2021-10-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3088 | J2145-0750  | ZD2021_3 | 2021-10-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3089 | J2234+0944  | ZD2021_3 | 2021-10-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3090 | J2229+2643  | ZD2021_3 | 2021-10-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3091 | J2322+2057  | ZD2021_3 | 2021-10-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3092 | J0030+0451  | ZD2021_3 | 2021-10-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3093 | J0621+1002  | ZD2021_3 | 2021-10-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3094 | J0636+5129  | ZD2021_3 | 2021-10-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3095 | J0613-0200  | ZD2021_3 | 2021-10-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3096 | J0645+5158  | ZD2021_3 | 2021-10-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3097 | J0248+4230  | ZD2021_3 | 2021-10-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 48 31.00 | +42 30 20.49 | /          | /         | /           | /          |
| 3098 | J0337+1715  | ZD2021_3 | 2021-10-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 37 43.83 | +17 15 14.83 | /          | /         | /           | /          |
| 3099 | J0348+0432  | ZD2021_3 | 2021-10-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 48 43.64 | +04 32 11.46 | /          | /         | /           | /          |
| 3100 | J2302+4442  | ZD2021_3 | 2021-10-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3101 | J0102+4839  | ZD2021_3 | 2021-10-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 01 02 50.67 | +48 39 42.75 | /          | /         | /           | /          |
| 3102 | J1713+0747  | ZD2021_3 | 2021-10-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3103 | J1853+1303  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3104 | J1832-0836  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3105 | J1843-1113  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3106 | J1918-0642  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3107 | J1910+1256  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3108 | J1944+0907  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3109 | J1955+2908  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3110 | J2017+0603  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3111 | J2022+2534  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3112 | J2033+1734  | ZD2021_3 | 2021-10-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3113 | J0218+4232  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3114 | J0340+4130  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3115 | J1012+5307  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3116 | J1024-0719  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3117 | J1022+1001  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3118 | J1327+3423  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3119 | J1453+1902  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3120 | J2222-0137  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3121 | J2214+3000  | ZD2021_3 | 2021-10-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3122 | J1713+0747  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3123 | J1643-1224  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3124 | J1741+1351  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3125 | J1744-1134  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3126 | J1857+0943  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3127 | J1903+0327  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3128 | J1911-1114  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3129 | J1911+1347  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 185           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3130 | J2010-1323  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3131 | J1923+2515  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3132 | J1946+3417  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3133 | J2019+2425  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3134 | J2043+1711  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3135 | J0034-0534  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3136 | J0023+0923  | ZD2021_3 | 2021-11-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3137 | J2150-0326  | ZD2021_3 | 2021-11-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3138 | J2234+0611  | ZD2021_3 | 2021-11-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3139 | J2317+1439  | ZD2021_3 | 2021-11-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3140 | J1713+0747  | ZD2021_3 | 2021-11-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3141 | J0406+3039  | ZD2021_3 | 2021-11-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3142 | J0751+1807  | ZD2021_3 | 2021-11-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3143 | J1221-0633  | ZD2021_3 | 2021-11-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 12 21 24.76 | -06 33 51.42 | /          | /         | /           | /          |
| 3144 | J1300+1240  | ZD2021_3 | 2021-11-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3145 | J1640+2224  | ZD2021_3 | 2021-11-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3146 | J2234+0944  | ZD2021_3 | 2021-11-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3147 | J1853+1303  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3148 | J1832-0836  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3149 | J1843-1113  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3150 | J1918-0642  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3151 | J1910+1256  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3152 | J1944+0907  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3153 | J1955+2908  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3154 | J2017+0603  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3155 | J2022+2534  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3156 | J2033+1734  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3157 | J2229+2643  | ZD2021_3 | 2021-11-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3158 | J0613-0200  | ZD2021_3 | 2021-11-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3159 | J0621+1002  | ZD2021_3 | 2021-11-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3160 | J2322+2057  | ZD2021_3 | 2021-11-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3161 | J0636+5129  | ZD2021_3 | 2021-11-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3162 | J0645+5158  | ZD2021_3 | 2021-11-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3163 | J1738+0333  | ZD2021_3 | 2021-11-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3164 | J2145-0750  | ZD2021_3 | 2021-11-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3165 | J2302+4442  | ZD2021_3 | 2021-11-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3166 | J0030+0451  | ZD2021_3 | 2021-11-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3167 | J1012+5307  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3168 | J1024-0719  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3169 | J1022+1001  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3170 | J1327+3423  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3171 | J1453+1902  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3172 | J1713+0747  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3173 | J2214+3000  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3174 | J2317+1439  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3175 | J0034-0534  | ZD2021_3 | 2021-11-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3176 | J0218+4232  | ZD2021_3 | 2021-11-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3177 | J0023+0923  | ZD2021_3 | 2021-11-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3178 | J0340+4130  | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3179 | J1630+3734  | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3180 | J1643-1224  | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3181 | J1741+1351  | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3182 | J1744-1134  | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3183 | J1857+0943  | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3184 | J1903+0327  | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3185 | J1911-1114  | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |

| ID   | source_name  | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|--------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3186 | J1911+1347   | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3187 | J2010-1323   | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3188 | J1923+2515   | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3189 | J1946+3417   | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3190 | J2019+2425   | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3191 | J2043+1711   | ZD2021_3 | 2021-11-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3192 | J1713+0747   | ZD2021_3 | 2021-11-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3193 | J2150-0326   | ZD2021_3 | 2021-11-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3194 | J2234+0611   | ZD2021_3 | 2021-11-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3195 | J0406+3039   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3196 | J0621+1002   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3197 | J0636+5129   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3198 | J0613-0200   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3199 | J0645+5158   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3200 | J0751+1807   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3201 | J1300+1240   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3202 | J1640+2224   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3203 | J2222-0137   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3204 | J2229+2643   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3205 | J2302+4442   | ZD2021_3 | 2021-11-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3206 | J1713+0747_2 | ZD2021_3 | 2021-11-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3207 | J2234+0944   | ZD2021_3 | 2021-11-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3208 | J2322+2057   | ZD2021_3 | 2021-11-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3209 | J0030+0451   | ZD2021_3 | 2021-11-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3210 | J1738+0333   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3211 | J1853+1303   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3212 | J1832-0836   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3213 | J1843-1113   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3214 | J1918-0642   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3215 | J1910+1256   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3216 | J1944+0907   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3217 | J1955+2908   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3218 | J2017+0603   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3219 | J2022+2534   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3220 | J2033+1734   | ZD2021_3 | 2021-11-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3221 | J2145-0750   | ZD2021_3 | 2021-11-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3222 | J0102+4839   | ZD2021_3 | 2021-11-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 01 02 50.67 | +48 39 42.75 | /          | /         | /           | /          |
| 3223 | J0248+4230   | ZD2021_3 | 2021-11-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 48 31.00 | +42 30 20.49 | /          | /         | /           | /          |
| 3224 | J0337+1715   | ZD2021_3 | 2021-11-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 37 43.83 | +17 15 14.83 | /          | /         | /           | /          |
| 3225 | J0348+0432   | ZD2021_3 | 2021-11-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 48 43.64 | +04 32 11.46 | /          | /         | /           | /          |
| 3226 | J1713+0747   | ZD2021_3 | 2021-11-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3227 | J1022+1001   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3228 | J1012+5307   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3229 | J1024-0719   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3230 | J1327+3423   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3231 | J1453+1902   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3232 | J2214+3000   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3233 | J2317+1439   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3234 | J0023+0923   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3235 | J0218+4232   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3236 | J0340+4130   | ZD2021_3 | 2021-11-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3237 | J2234+0611   | ZD2021_3 | 2021-11-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3238 | J2222-0137   | ZD2021_3 | 2021-11-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3239 | J1643-1224   | ZD2021_3 | 2021-11-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3240 | J1630+3734  | ZD2021_3 | 2021-11-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3241 | J1741+1351  | ZD2021_3 | 2021-11-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3242 | J2150-0326  | ZD2021_3 | 2021-11-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3243 | J1713+0747  | ZD2021_3 | 2021-12-01 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3244 | J1312+0051  | ZD2021_3 | 2021-12-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 12 46.64 | +00 51 00.10 | /          | /         | /           | /          |
| 3245 | J1744-1134  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3246 | J1857+0943  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3247 | J1903+0327  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3248 | J1911-1114  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3249 | J1911+1347  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3250 | J2010-1323  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3251 | J1923+2515  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3252 | J1946+3417  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3253 | J2019+2425  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3254 | J2043+1711  | ZD2021_3 | 2021-12-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3255 | J0613-0200  | ZD2021_3 | 2021-12-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3256 | J0621+1002  | ZD2021_3 | 2021-12-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3257 | J0751+1807  | ZD2021_3 | 2021-12-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3258 | J1300+1240  | ZD2021_3 | 2021-12-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3259 | J1640+2224  | ZD2021_3 | 2021-12-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3260 | J2229+2643  | ZD2021_3 | 2021-12-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3261 | J2302+4442  | ZD2021_3 | 2021-12-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3262 | J0636+5129  | ZD2021_3 | 2021-12-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3263 | J0645+5158  | ZD2021_3 | 2021-12-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3264 | J1713+0747  | ZD2021_3 | 2021-12-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3265 | J1738+0333  | ZD2021_3 | 2021-12-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3266 | J2145-0750  | ZD2021_3 | 2021-12-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3267 | J2234+0944  | ZD2021_3 | 2021-12-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3268 | J2322+2057  | ZD2021_3 | 2021-12-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3269 | J0406+3039  | ZD2021_3 | 2021-12-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3270 | J1853+1303  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3271 | J1832-0836  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3272 | J1843-1113  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3273 | J1918-0642  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3274 | J1910+1256  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3275 | J1944+0907  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3276 | J1955+2908  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 312           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3277 | J2022+2534  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3278 | J2033+1734  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3279 | J0030+0451  | ZD2021_3 | 2021-12-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3280 | J1713+0747  | ZD2021_3 | 2021-12-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3281 | J1713+0747  | ZD2021_3 | 2021-12-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3282 | J0218+4232  | ZD2021_3 | 2021-12-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3283 | J0340+4130  | ZD2021_3 | 2021-12-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3284 | J1012+5307  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3285 | J1022+1001  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3286 | J1024-0719  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3287 | J1327+3423  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3288 | J1453+1902  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3289 | J1630+3734  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3290 | J1643-1224  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3291 | J1741+1351  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3292 | J2214+3000  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3293 | J2317+1439  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3294 | J0023+0923  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3295 | J0034-0534  | ZD2021_3 | 2021-12-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3296 | J1744-1134  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3297 | J1857+0943  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3298 | J1903+0327  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3299 | J1911-1114  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3300 | J1911+1347  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3301 | J2010-1323  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3302 | J1923+2515  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3303 | J1946+3417  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3304 | J2019+2425  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3305 | J2043+1711  | ZD2021_3 | 2021-12-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3306 | J2150-0326  | ZD2021_3 | 2021-12-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3307 | J2234+0611  | ZD2021_3 | 2021-12-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3308 | J0751+1807  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3309 | J1012+5307  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3310 | J1024-0719  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3311 | J1022+1001  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3312 | J1300+1240  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3313 | J1640+2224  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3314 | J1713+0747  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3315 | J1738+0333  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3316 | J0406+3039  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3317 | J0621+1002  | ZD2021_3 | 2021-12-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3318 | J0613-0200  | ZD2021_3 | 2021-12-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3319 | J0636+5129  | ZD2021_3 | 2021-12-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3320 | J0645+5158  | ZD2021_3 | 2021-12-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3321 | J2229+2643  | ZD2021_3 | 2021-12-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3322 | J0030+0451  | ZD2021_3 | 2021-12-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3323 | J2234+0944  | ZD2021_3 | 2021-12-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3324 | J2302+4442  | ZD2021_3 | 2021-12-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3325 | J2317+1439  | ZD2021_3 | 2021-12-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3326 | J1853+1303  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3327 | J1832-0836  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3328 | J1843-1113  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3329 | J1918-0642  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3330 | J1910+1256  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3331 | J1944+0907  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3332 | J1955+2908  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3333 | J2017+0603  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3334 | J2022+2534  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3335 | J2033+1734  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3336 | J2222-0137  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3337 | J2322+2057  | ZD2021_3 | 2021-12-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3338 | J2145-0750  | ZD2021_3 | 2021-12-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3339 | J1713+0747  | ZD2021_3 | 2021-12-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3340 | J1630+3734  | ZD2021_3 | 2021-12-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3341 | J2317+1439  | ZD2021_3 | 2021-12-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3342 | J0218+4232  | ZD2021_3 | 2021-12-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3343 | J0340+4130  | ZD2021_3 | 2021-12-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3344 | J1012+5307  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3345 | J1022+1001  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3346 | J1024-0719  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3347 | J1741+1351  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3348 | J1744-1134  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3349 | J1857+0943  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3350 | J1903+0327  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3351 | J1911-1114  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3352 | J1911+1347  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3353 | J2010-1323  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3354 | J1923+2515  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3355 | J1946+3417  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3356 | J2019+2425  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3357 | J2043+1711  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3358 | J0030+0451  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3359 | J0023+0923  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3360 | J0613-0200  | ZD2021_3 | 2021-12-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3361 | J0645+5158  | ZD2021_3 | 2021-12-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3362 | J1327+3423  | ZD2021_3 | 2021-12-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3363 | J1453+1902  | ZD2021_3 | 2021-12-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3364 | J1643-1224  | ZD2021_3 | 2021-12-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3365 | J1640+2224  | ZD2021_3 | 2021-12-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3366 | J1713+0747  | ZD2021_3 | 2021-12-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3367 | J2214+3000  | ZD2021_3 | 2021-12-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3368 | J0102+4839  | ZD2021_3 | 2021-12-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 01 02 50.67 | +48 39 42.75 | /          | /         | /           | /          |
| 3369 | J0248+4230  | ZD2021_3 | 2021-12-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 48 31.00 | +42 30 20.49 | /          | /         | /           | /          |
| 3370 | J0337+1715  | ZD2021_3 | 2021-12-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 37 43.83 | +17 15 14.83 | /          | /         | /           | /          |
| 3371 | J0348+0432  | ZD2021_3 | 2021-12-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 48 43.64 | +04 32 11.46 | /          | /         | /           | /          |
| 3372 | J2222-0137  | ZD2021_3 | 2022-01-01 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3373 | J2234+0611  | ZD2021_3 | 2022-01-01 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3374 | J1640+2224  | ZD2021_3 | 2022-01-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3375 | J1713+0747  | ZD2021_3 | 2022-01-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3376 | J0406+3039  | ZD2021_3 | 2022-01-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3377 | J0621+1002  | ZD2021_3 | 2022-01-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3378 | J0613-0200  | ZD2021_3 | 2022-01-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3379 | J0636+5129  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3380 | J0645+5158  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3381 | J0751+1807  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3382 | J1012+5307  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3383 | J1022+1001  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3384 | J1300+1240  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3385 | J1738+0333  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3386 | J2145-0750  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3387 | J2234+0611  | ZD2021_3 | 2022-01-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3388 | J2234+0944  | ZD2021_3 | 2022-01-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3389 | J2229+2643  | ZD2021_3 | 2022-01-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3390 | J2302+4442  | ZD2021_3 | 2022-01-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3391 | J2322+2057  | ZD2021_3 | 2022-01-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3392 | J2150-0326  | ZD2021_3 | 2022-01-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3393 | J1853+1303  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3394 | J1832-0836  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3395 | J1843-1113  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3396 | J1918-0642  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3397 | J1910+1256  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3398 | J1944+0907  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3399 | J1955+2908  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3400 | J2017+0603  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3401 | J2022+2534  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3402 | J2033+1734  | ZD2021_3 | 2022-01-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3403 | J0030+0451  | ZD2021_3 | 2022-01-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3404 | J1012+5307  | ZD2021_3 | 2022-01-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3405 | J0621+1002  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3406 | J0636+5129  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3407 | J0645+5158  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3408 | J0751+1807  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3409 | J1327+3423  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3410 | J0023+0923  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3411 | J0034-0534  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3412 | J0218+4232  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3413 | J0340+4130  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3414 | J0509+0856  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3415 | J0613-0200  | ZD2021_3 | 2022-01-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3416 | J1022+1001  | ZD2021_3 | 2022-01-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3417 | J1024-0719  | ZD2021_3 | 2022-01-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3418 | J1453+1902  | ZD2021_3 | 2022-01-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3419 | J2322+2057  | ZD2021_3 | 2022-01-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3420 | J1630+3734  | ZD2021_3 | 2022-01-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3421 | J1640+2224  | ZD2021_3 | 2022-01-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3422 | J1741+1351  | ZD2021_3 | 2022-01-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3423 | J1643-1224  | ZD2021_3 | 2022-01-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3424 | J2145-0750  | ZD2021_3 | 2022-01-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3425 | J2234+0611  | ZD2021_3 | 2022-01-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3426 | J2214+3000  | ZD2021_3 | 2022-01-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3427 | J2229+2643  | ZD2021_3 | 2022-01-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3428 | J2234+0944  | ZD2021_3 | 2022-01-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3429 | J2302+4442  | ZD2021_3 | 2022-01-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3430 | J2317+1439  | ZD2021_3 | 2022-01-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3431 | J0030+0451  | ZD2021_3 | 2022-01-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3432 | J1713+0747  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3433 | J1738+0333  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3434 | J1744-1134  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3435 | J1857+0943  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3436 | J1903+0327  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3437 | J1911-1114  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3438 | J1911+1347  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3439 | J2010-1323  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3440 | J1923+2515  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3441 | J1946+3417  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3442 | J2019+2425  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3443 | J2043+1711  | ZD2021_3 | 2022-01-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3444 | J1300+1240  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3445 | J1453+1902  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3446 | J1630+3734  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3447 | J1640+2224  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3448 | J2145-0750  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3449 | J2234+0944  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3450 | J2214+3000  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3451 | J0218+4232  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3452 | J0340+4130  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3453 | J0406+3039  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3454 | J0509+0856  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3455 | J0621+1002  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3456 | J0613-0200  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3457 | J0645+5158  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3458 | J0751+1807  | ZD2021_3 | 2022-01-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3459 | J1012+5307  | ZD2021_3 | 2022-01-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3460 | J1024-0719  | ZD2021_3 | 2022-01-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3461 | J2222-0137  | ZD2021_3 | 2022-01-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3462 | J2229+2643  | ZD2021_3 | 2022-01-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3463 | J2302+4442  | ZD2021_3 | 2022-01-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3464 | J2317+1439  | ZD2021_3 | 2022-01-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3465 | J1022+1001  | ZD2021_3 | 2022-01-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3466 | J1738+0333  | ZD2021_3 | 2022-01-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3467 | J2234+0611  | ZD2021_3 | 2022-01-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3468 | J2322+2057  | ZD2021_3 | 2022-01-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3469 | J0023+0923  | ZD2021_3 | 2022-01-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3470 | J1713+0747  | ZD2021_3 | 2022-01-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3471 | J1741+1351  | ZD2021_3 | 2022-01-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3472 | J2150-0326  | ZD2021_3 | 2022-01-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3473 | J0030+0451  | ZD2021_3 | 2022-01-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3474 | J1713+0747  | ZD2021_3 | 2022-01-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3475 | J0102+4839  | ZD2021_3 | 2022-01-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 01 02 50.67 | +48 39 42.75 | /          | /         | /           | /          |
| 3476 | J0248+4230  | ZD2021_3 | 2022-01-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 48 31.00 | +42 30 20.49 | /          | /         | /           | /          |
| 3477 | J0348+0432  | ZD2021_3 | 2022-01-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 48 43.64 | +04 32 11.46 | /          | /         | /           | /          |
| 3478 | J0337+1715  | ZD2021_3 | 2022-01-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 37 43.83 | +17 15 14.83 | /          | /         | /           | /          |
| 3479 | J1453+1902  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3480 | J1630+3734  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3481 | J1640+2224  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3482 | J1853+1303  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3483 | J1832-0836  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3484 | J1843-1113  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3485 | J1918-0642  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3486 | J1910+1256  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3487 | J1944+0907  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3488 | J1955+2908  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3489 | J2017+0603  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3490 | J2022+2534  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3491 | J2033+1734  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3492 | J2234+0611  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3493 | J0218+4232  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3494 | J0340+4130  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3495 | J0621+1002  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3496 | J0645+5158  | ZD2021_3 | 2022-01-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3497 | J0751+1807  | ZD2021_3 | 2022-01-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3498 | J1012+5307  | ZD2021_3 | 2022-01-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3499 | J2234+0944  | ZD2021_3 | 2022-01-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3500 | J0605+3757  | ZD2021_3 | 2022-01-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 05 05.54 | +37 57 35.96 | /          | /         | /           | /          |
| 3501 | J0636+5129  | ZD2021_3 | 2022-01-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3502 | J0709+0458  | ZD2021_3 | 2022-01-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 09 08.36 | +04 58 51.49 | /          | /         | /           | /          |
| 3503 | J0732+2314  | ZD2021_3 | 2022-01-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 32 37.52 | +23 14 54.21 | /          | /         | /           | /          |
| 3504 | J0824+0028  | ZD2021_3 | 2022-01-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 08 24 24.84 | +00 28 00.57 | /          | /         | /           | /          |
| 3505 | J1022+1001  | ZD2021_3 | 2022-01-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3506 | J1024-0719  | ZD2021_3 | 2022-01-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3507 | J1327+3423  | ZD2021_3 | 2022-01-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3508 | J1713+0747  | ZD2021_3 | 2022-01-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3509 | J1741+1351  | ZD2021_3 | 2022-01-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3510 | J2214+3000  | ZD2021_3 | 2022-01-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3511 | J2229+2643  | ZD2021_3 | 2022-01-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3512 | J2302+4442  | ZD2021_3 | 2022-01-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3513 | J2322+2057  | ZD2021_3 | 2022-01-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3514 | J0023+0923  | ZD2021_3 | 2022-01-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3515 | J1312+0051  | ZD2021_3 | 2022-01-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 12 46.64 | +00 51 00.10 | /          | /         | /           | /          |
| 3516 | J1643-1224  | ZD2021_3 | 2022-01-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3517 | J1738+0333  | ZD2021_3 | 2022-01-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3518 | J2317+1439  | ZD2021_3 | 2022-01-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3519 | J0509+0856  | ZD2021_3 | 2022-01-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3520 | J0613-0200  | ZD2021_3 | 2022-01-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3521 | J0030+0451  | ZD2021_3 | 2022-01-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3522 | J0034-0534  | ZD2021_3 | 2022-01-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3523 | J0406+3039  | ZD2021_3 | 2022-01-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3524 | J1022+1001  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3525 | J1300+1240  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3526 | J1744-1134  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3527 | J1857+0943  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3528 | J1903+0327  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3529 | J1911-1114  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3530 | J1911+1347  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3531 | J2010-1323  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3532 | J1923+2515  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3533 | J1946+3417  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3534 | J2019+2425  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3535 | J2043+1711  | ZD2021_3 | 2022-01-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3536 | J2145-0750  | ZD2021_3 | 2022-02-01 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3537 | J2150-0326  | ZD2021_3 | 2022-02-01 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3538 | J1713+0747  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3539 | J1853+1303  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3540 | J1832-0836  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3541 | J1843-1113  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3542 | J1918-0642  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3543 | J1910+1256  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3544 | J1944+0907  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3545 | J1955+2908  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3546 | J2017+0603  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3547 | J2022+2534  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3548 | J2033+1734  | ZD2021_3 | 2022-02-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3549 | J1022+1001  | ZD2021_3 | 2022-02-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3550 | J1713+0747  | ZD2021_3 | 2022-02-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3551 | J2145-0750  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3552 | J2222-0137  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3553 | J2234+0611  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3554 | J2234+0944  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3555 | J2214+3000  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3556 | J0023+0923  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3557 | J0034-0534  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3558 | J0218+4232  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3559 | J0340+4130  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3560 | J0509+0856  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3561 | J0621+1002  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3562 | J0613-0200  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3563 | J0636+5129  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3564 | J0645+5158  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3565 | J0751+1807  | ZD2021_3 | 2022-02-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3566 | J1024-0719  | ZD2021_3 | 2022-02-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3567 | J1012+5307  | ZD2021_3 | 2022-02-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3568 | J2229+2643  | ZD2021_3 | 2022-02-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3569 | J2302+4442  | ZD2021_3 | 2022-02-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3570 | J2317+1439  | ZD2021_3 | 2022-02-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3571 | J0030+0451  | ZD2021_3 | 2022-02-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3572 | J1022+1001  | ZD2021_3 | 2022-02-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3573 | J1327+3423  | ZD2021_3 | 2022-02-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3574 | J1453+1902  | ZD2021_3 | 2022-02-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3575 | J1640+2224  | ZD2021_3 | 2022-02-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3576 | J1741+1351  | ZD2021_3 | 2022-02-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3577 | J2322+2057  | ZD2021_3 | 2022-02-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3578 | J1630+3734  | ZD2021_3 | 2022-02-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3579 | J1738+0333  | ZD2021_3 | 2022-02-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3580 | J1713+0747  | ZD2021_3 | 2022-02-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3581 | J1744-1134  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3582 | J1857+0943  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3583 | J1903+0327  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3584 | J1911-1114  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3585 | J1911+1347  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3586 | J2010-1323  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3587 | J1923+2515  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3588 | J1946+3417  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3589 | J2019+2425  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3590 | J2043+1711  | ZD2021_3 | 2022-02-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3591 | J1300+1240  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3592 | J1453+1902  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3593 | J1630+3734  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3594 | J1640+2224  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3595 | J2214+3000  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3596 | J2229+2643  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3597 | J2145-0750  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3598 | J2150-0326  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3599 | J2234+0611  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3600 | J0218+4232  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3601 | J0340+4130  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3602 | J0406+3039  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3603 | J0509+0856  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3604 | J0613-0200  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3605 | J0621+1002  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3606 | J0645+5158  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3607 | J0751+1807  | ZD2021_3 | 2022-02-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3608 | J1713+0747  | ZD2021_3 | 2022-02-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3609 | J1643-1224  | ZD2021_3 | 2022-02-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3610 | J2234+0944  | ZD2021_3 | 2022-02-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3611 | J2317+1439  | ZD2021_3 | 2022-02-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3612 | J1741+1351  | ZD2021_3 | 2022-02-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3613 | J1738+0333  | ZD2021_3 | 2022-02-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3614 | J2322+2057  | ZD2021_3 | 2022-02-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3615 | J2302+4442  | ZD2021_3 | 2022-02-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3616 | J0023+0923  | ZD2021_3 | 2022-02-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3617 | J1853+1303  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3618 | J1832-0836  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3619 | J1843-1113  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3620 | J1918-0642  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3621 | J1910+1256  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3622 | J1944+0907  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3623 | J1955+2908  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3624 | J2017+0603  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3625 | J2022+2534  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3626 | J2033+1734  | ZD2021_3 | 2022-02-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3627 | J1327+3423  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3628 | J1453+1902  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3629 | J1630+3734  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3630 | J1640+2224  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3631 | J0218+4232  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3632 | J0509+0856  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3633 | J0621+1002  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3634 | J0613-0200  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3635 | J0636+5129  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3636 | J0645+5158  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3637 | J0751+1807  | ZD2021_3 | 2022-02-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3638 | J0340+4130  | ZD2021_3 | 2022-02-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3639 | J2234+0611  | ZD2021_3 | 2022-02-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3640 | J2234+0944  | ZD2021_3 | 2022-02-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3641 | J2229+2643  | ZD2021_3 | 2022-02-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3642 | J0030+0451  | ZD2021_3 | 2022-02-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3643 | J0023+0923  | ZD2021_3 | 2022-02-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3644 | J1022+1001  | ZD2021_3 | 2022-02-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3645 | J1024-0719  | ZD2021_3 | 2022-02-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3646 | J1012+5307  | ZD2021_3 | 2022-02-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3647 | J2302+4442  | ZD2021_3 | 2022-02-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3648 | J2317+1439  | ZD2021_3 | 2022-02-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3649 | J2322+2057  | ZD2021_3 | 2022-02-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3650 | J0034-0534  | ZD2021_3 | 2022-02-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3651 | J1741+1351  | ZD2021_3 | 2022-02-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3652 | J1738+0333  | ZD2021_3 | 2022-02-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3653 | J2214+3000  | ZD2021_3 | 2022-02-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3654 | J1713+0747  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3655 | J1744-1134  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3656 | J1857+0943  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3657 | J1903+0327  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3658 | J1911-1114  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3659 | J1911+1347  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3660 | J2010-1323  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3661 | J0218+4232  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3662 | J0340+4130  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3663 | J0406+3039  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3664 | J0509+0856  | ZD2021_3 | 2022-02-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3665 | J1453+1902  | ZD2021_3 | 2022-02-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3666 | J1630+3734  | ZD2021_3 | 2022-02-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3667 | J0621+1002  | ZD2021_3 | 2022-02-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3668 | J0645+5158  | ZD2021_3 | 2022-02-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3669 | J0751+1807  | ZD2021_3 | 2022-02-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3670 | J1022+1001  | ZD2021_3 | 2022-02-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3671 | J1012+5307  | ZD2021_3 | 2022-03-01 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |

| ID   | source_name  | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|--------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3672 | J1024-0719   | ZD2021_3 | 2022-03-01 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3673 | J1640+2224   | ZD2021_3 | 2022-03-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3674 | J2317+1439   | ZD2021_3 | 2022-03-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3675 | J1300+1240   | ZD2021_3 | 2022-03-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3676 | J1713+0747   | ZD2021_3 | 2022-03-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 268           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3677 | J2043+1711   | ZD2021_3 | 2022-03-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3678 | J2150-0326   | ZD2021_3 | 2022-03-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3679 | J2234+0944   | ZD2021_3 | 2022-03-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3680 | J2214+3000   | ZD2021_3 | 2022-03-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3681 | J0030+0451_1 | ZD2021_3 | 2022-03-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3682 | J2145-0750   | ZD2021_3 | 2022-03-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3683 | J2222-0137   | ZD2021_3 | 2022-03-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3684 | J2229+2643   | ZD2021_3 | 2022-03-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3685 | J0613-0200   | ZD2021_3 | 2022-03-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3686 | J2234+0611   | ZD2021_3 | 2022-03-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3687 | J1327+3423   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3688 | J1453+1902   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3689 | J1630+3734   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3690 | J1741+1351   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3691 | J1643-1224   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3692 | J1853+1303   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3693 | J1832-0836   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3694 | J1843-1113   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3695 | J1918-0642   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3696 | J1910+1256   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3697 | J1944+0907   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3698 | J1955+2908   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3699 | J2017+0603   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3700 | J2022+2534   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3701 | J2033+1734   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3702 | J2302+4442   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3703 | J2317+1439   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3704 | J0751+1807   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3705 | J1022+1001   | ZD2021_3 | 2022-03-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3706 | J1640+2224   | ZD2021_3 | 2022-03-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3707 | J1713+0747   | ZD2021_3 | 2022-03-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3708 | J2322+2057   | ZD2021_3 | 2022-03-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3709 | J0030+0451   | ZD2021_3 | 2022-03-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3710 | J1012+5307   | ZD2021_3 | 2022-03-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3711 | J1024-0719   | ZD2021_3 | 2022-03-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3712 | J0023+0923   | ZD2021_3 | 2022-03-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3713 | J0218+4232   | ZD2021_3 | 2022-03-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3714 | J0340+4130   | ZD2021_3 | 2022-03-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3715 | J0613-0200   | ZD2021_3 | 2022-03-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3716 | J0636+5129   | ZD2021_3 | 2022-03-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3717 | J0645+5158   | ZD2021_3 | 2022-03-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3718 | J1738+0333   | ZD2021_3 | 2022-03-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3719 | J2145-0750   | ZD2021_3 | 2022-03-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3720 | J1744-1134   | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3721 | J1857+0943   | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3722 | J1903+0327   | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3723 | J1911-1114   | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3724 | J1911+1347   | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3725 | J2010-1323   | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3726 | J1923+2515  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3727 | J1946+3417  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3728 | J2019+2425  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3729 | J2043+1711  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3730 | J2214+3000  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3731 | J2234+0611  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3732 | J2229+2643  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3733 | J0034-0534  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3734 | J0218+4232  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3735 | J0340+4130  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3736 | J0406+3039  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3737 | J0509+0856  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3738 | J0613-0200  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3739 | J0645+5158  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3740 | J0621+1002  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3741 | J0751+1807  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3742 | J1012+5307  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3743 | J1022+1001  | ZD2021_3 | 2022-03-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3744 | J1300+1240  | ZD2021_3 | 2022-03-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3745 | J1630+3734  | ZD2021_3 | 2022-03-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3746 | J1640+2224  | ZD2021_3 | 2022-03-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3747 | J1741+1351  | ZD2021_3 | 2022-03-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3748 | J2145-0750  | ZD2021_3 | 2022-03-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3749 | J2150-0326  | ZD2021_3 | 2022-03-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3750 | J2234+0944  | ZD2021_3 | 2022-03-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3751 | J2322+2057  | ZD2021_3 | 2022-03-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3752 | J1713+0747  | ZD2021_3 | 2022-03-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3753 | J1738+0333  | ZD2021_3 | 2022-03-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3754 | J1640+2224  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3755 | J1713+0747  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3756 | J1741+1351  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3757 | J2317+1439  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3758 | J0023+0923  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3759 | J0030+0451  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3760 | J0218+4232  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3761 | J0340+4130  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3762 | J0751+1807  | ZD2021_3 | 2022-03-22 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3763 | J1022+1001  | ZD2021_3 | 2022-03-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 374           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3764 | J1850+0124  | ZD2021_3 | 2022-03-24 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 50 01.01 | +01 24 34.6  | /          | /         | /           | /          |
| 3765 | J2222-0137  | ZD2021_3 | 2022-03-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3766 | J1853+1303  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3767 | J1832-0836  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3768 | J1843-1113  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3769 | J1918-0642  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3770 | J1910+1256  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3771 | J1944+0907  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3772 | J1955+2908  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3773 | J2017+0603  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3774 | J2022+2534  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3775 | J2033+1734  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3776 | J0613-0200  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3777 | J0636+5129  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3778 | J0645+5158  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3779 | J1012+5307  | ZD2021_3 | 2022-03-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3780 | J2145-0750  | ZD2021_3 | 2022-03-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3781 | J2322+2057  | ZD2021_3 | 2022-03-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3782 | J1022+1001  | ZD2021_3 | 2022-03-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3783 | J1327+3423  | ZD2021_3 | 2022-03-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3784 | J1453+1902  | ZD2021_3 | 2022-03-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3785 | J1630+3734  | ZD2021_3 | 2022-03-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3786 | J2150-0326  | ZD2021_3 | 2022-03-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3787 | J2234+0611  | ZD2021_3 | 2022-03-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3788 | J2234+0944  | ZD2021_3 | 2022-03-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3789 | J2317+1439  | ZD2021_3 | 2022-03-29 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3790 | J1713+0747  | ZD2021_3 | 2022-03-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3791 | J1741+1351  | ZD2021_3 | 2022-03-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3792 | J2214+3000  | ZD2021_3 | 2022-03-30 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3793 | J1643-1224  | ZD2021_3 | 2022-03-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3794 | J2229+2643  | ZD2021_3 | 2022-03-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3795 | J2302+4442  | ZD2021_3 | 2022-03-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3796 | J1744-1134  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3797 | J1857+0943  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3798 | J1903+0327  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3799 | J1911-1114  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3800 | J1911+1347  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3801 | J2010-1323  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3802 | J1923+2515  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3803 | J1946+3417  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3804 | J2019+2425  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3805 | J2043+1711  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3806 | J2234+0944  | ZD2021_3 | 2022-04-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3807 | J1024-0719  | ZD2021_3 | 2022-04-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3808 | J2302+4442  | ZD2021_3 | 2022-04-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3809 | J0406+3039  | ZD2021_3 | 2022-04-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3810 | J0621+1002  | ZD2021_3 | 2022-04-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3811 | J1640+2224  | ZD2021_3 | 2022-04-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3812 | J2145-0750  | ZD2021_3 | 2022-04-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3813 | J0751+1807  | ZD2021_3 | 2022-04-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3814 | J1300+1240  | ZD2021_3 | 2022-04-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3815 | J0636+5129  | ZD2021_3 | 2022-04-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3816 | J1713+0747  | ZD2021_3 | 2022-04-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3817 | J1738+0333  | ZD2021_3 | 2022-04-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3818 | J0645+5158  | ZD2021_3 | 2022-04-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3819 | J2322+2057  | ZD2021_3 | 2022-04-08 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3820 | J1853+1303  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3821 | J1832-0836  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3822 | J1843-1113  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3823 | J1918-0642  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3824 | J1910+1256  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3825 | J1944+0907  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3826 | J1955+2908  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3827 | J2017+0603  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3828 | J2022+2534  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3829 | J2033+1734  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3830 | J2302+4442  | ZD2021_3 | 2022-04-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3831 | J1850+0124  | ZD2021_3 | 2022-04-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 50 01.01 | +01 24 34.6  | /          | /         | /           | /          |
| 3832 | J1022+1001  | ZD2021_3 | 2022-04-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3833 | J1012+5307  | ZD2021_3 | 2022-04-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3834 | J1024-0719  | ZD2021_3 | 2022-04-11 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3835 | J1630+3734  | ZD2021_3 | 2022-04-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3836 | J0340+4130  | ZD2021_3 | 2022-04-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3837 | J0653+4706  | ZD2021_3 | 2022-04-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 53 05.81 | +47 06 26.92 | /          | /         | /           | /          |
| 3838 | J2150-0326  | ZD2021_3 | 2022-04-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3839 | J2317+1439  | ZD2021_3 | 2022-04-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3840 | J1327+3423  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3841 | J1453+1902  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3842 | J1803+1358  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 03 11.00 | +13 59 26.00 | /          | /         | /           | /          |
| 3843 | J1713+0747  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3844 | J1821+0155  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 21 38.88 | +01 55 21.99 | /          | /         | /           | /          |
| 3845 | J2234+0611  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3846 | J2205+6012  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 05 34.10 | +60 12 54.00 | /          | /         | /           | /          |
| 3847 | J2222-0137  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3848 | J2214+3000  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3849 | J0034-0534  | ZD2021_3 | 2022-04-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3850 | J1403+1309  | ZD2021_3 | 2022-04-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 03 00.00 | +13 09 12.00 | /          | /         | /           | /          |
| 3851 | J1741+1351  | ZD2021_3 | 2022-04-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3852 | J1643-1224  | ZD2021_3 | 2022-04-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3853 | J1744-1134  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3854 | J1857+0943  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 316           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3855 | J1903+0327  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3856 | J1911-1114  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3857 | J1911+1347  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3858 | J2010-1323  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3859 | J1923+2515  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3860 | J1946+3417  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3861 | J2019+2425  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3862 | J2043+1711  | ZD2021_3 | 2022-04-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3863 | J0023+0923  | ZD2021_3 | 2022-04-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3864 | J2145-0750  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | +07 50 18.51 | /          | /         | /           | /          |
| 3865 | J2234+0944  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3866 | J2229+2643  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3867 | J2302+4442  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3868 | J0030+0451  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3869 | J0509+0856  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3870 | J0621+1002  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3871 | J0636+5129  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3872 | J0751+1807  | ZD2021_3 | 2022-04-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3873 | J1300+1240  | ZD2021_3 | 2022-04-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3874 | J1640+2224  | ZD2021_3 | 2022-04-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3875 | J2322+2057  | ZD2021_3 | 2022-04-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3876 | J0645+5158  | ZD2021_3 | 2022-04-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3877 | J0613-0200  | ZD2021_3 | 2022-04-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3878 | J1713+0747  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3879 | J1738+0333  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3880 | J1853+1303  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3881 | J1832-0836  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3882 | J1843-1113  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3883 | J1918-0642  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3884 | J1910+1256  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3885 | J1944+0907  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3886 | J1955+2908  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3887 | J2017+0603  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3888 | J2022+2534  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3889 | J2033+1734  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3890 | J0218+4232  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3891 | J0406+3039  | ZD2021_3 | 2022-04-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3892 | J1327+3423  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3893 | J1453+1902  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3894 | J1630+3734  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3895 | J1713+0747  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3896 | J1741+1351  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3897 | J2234+0611  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3898 | J2317+1439  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3899 | J0340+4130  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3900 | J1022+1001  | ZD2021_3 | 2022-04-25 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3901 | J2150-0326  | ZD2021_3 | 2022-04-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3902 | J2214+3000  | ZD2021_3 | 2022-04-26 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3903 | J1643-1224  | ZD2021_3 | 2022-04-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3904 | J1024-0719  | ZD2021_3 | 2022-04-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3905 | J0605+3757  | ZD2021_3 | 2022-04-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 05 05.54 | +37 57 35.96 | /          | /         | /           | /          |
| 3906 | J0709+0458  | ZD2021_3 | 2022-04-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 09 08.36 | +04 58 51.49 | /          | /         | /           | /          |
| 3907 | J0732+2314  | ZD2021_3 | 2022-04-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 32 37.52 | +23 14 54.21 | /          | /         | /           | /          |
| 3908 | J0824+0028  | ZD2021_3 | 2022-04-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 08 24 24.84 | +00 28 00.57 | /          | /         | /           | /          |
| 3909 | J1012+5307  | ZD2021_3 | 2022-04-28 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3910 | J1640+2224  | ZD2021_3 | 2022-05-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3911 | J2322+2057  | ZD2021_3 | 2022-05-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3912 | J0751+1807  | ZD2021_3 | 2022-05-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3913 | J2234+0944  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3914 | J2229+2643  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3915 | J0030+0451  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3916 | J0406+3039  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3917 | J0509+0856  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3918 | J0621+1002  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3919 | J0613-0200  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3920 | J0636+5129  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3921 | J0645+5158  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3922 | J1300+1240  | ZD2021_3 | 2022-05-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 00 03.58 | +12 40 56.47 | /          | /         | /           | /          |
| 3923 | J1713+0747  | ZD2021_3 | 2022-05-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3924 | J1738+0333  | ZD2021_3 | 2022-05-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3925 | J2302+4442  | ZD2021_3 | 2022-05-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3926 | J1850+0124  | ZD2021_3 | 2022-05-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 50 01.01 | +01 24 34.6  | /          | /         | /           | /          |
| 3927 | J2145-0750  | ZD2021_3 | 2022-05-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3928 | J1853+1303  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3929 | J1832-0836  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3930 | J1843-1113  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3931 | J1918-0642  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3932 | J1910+1256  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3933 | J1944+0907  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3934 | J1955+2908  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3935 | J2017+0603  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3936 | J2022+2534  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3937 | J2033+1734  | ZD2021_3 | 2022-05-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3938 | J0952-0607  | ZD2021_3 | 2022-05-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 09 52 08.32 | -06 07 23.49 | /          | /         | /           | /          |
| 3939 | J1630+3734  | ZD2021_3 | 2022-05-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 3940 | J1643-1224  | ZD2021_3 | 2022-05-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 3941 | J2214+3000  | ZD2021_3 | 2022-05-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3942 | J0023+0923  | ZD2021_3 | 2022-05-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3943 | J0340+4130  | ZD2021_3 | 2022-05-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 3944 | J1012+5307  | ZD2021_3 | 2022-05-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 3945 | J1022+1001  | ZD2021_3 | 2022-05-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 3946 | J1024-0719  | ZD2021_3 | 2022-05-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 3947 | J1327+3423  | ZD2021_3 | 2022-05-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 3948 | J1453+1902  | ZD2021_3 | 2022-05-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 3949 | J1713+0747  | ZD2021_3 | 2022-05-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3950 | J2150-0326  | ZD2021_3 | 2022-05-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3951 | J2222-0137  | ZD2021_3 | 2022-05-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 3952 | J2234+0611  | ZD2021_3 | 2022-05-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 3953 | J2317+1439  | ZD2021_3 | 2022-05-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3954 | J1741+1351  | ZD2021_3 | 2022-05-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 3955 | J1744-1134  | ZD2021_3 | 2022-05-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 3956 | J1857+0943  | ZD2021_3 | 2022-05-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 3957 | J1903+0327  | ZD2021_3 | 2022-05-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 3958 | J1911-1114  | ZD2021_3 | 2022-05-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 3959 | J1911+1347  | ZD2021_3 | 2022-05-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 3960 | J2010-1323  | ZD2021_3 | 2022-05-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 3961 | J1923+2515  | ZD2021_3 | 2022-05-12 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 3962 | J1946+3417  | ZD2021_3 | 2022-05-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 3963 | J2019+2425  | ZD2021_3 | 2022-05-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 3964 | J2043+1711  | ZD2021_3 | 2022-05-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 3965 | J0034-0534  | ZD2021_3 | 2022-05-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 3966 | J0218+4232  | ZD2021_3 | 2022-05-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3967 | J2145-0750  | ZD2021_3 | 2022-05-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 3968 | J2234+0944  | ZD2021_3 | 2022-05-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 3969 | J2229+2643  | ZD2021_3 | 2022-05-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 3970 | J2302+4442  | ZD2021_3 | 2022-05-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 3971 | J2322+2057  | ZD2021_3 | 2022-05-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 3972 | J0030+0451  | ZD2021_3 | 2022-05-16 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 3973 | J1640+2224  | ZD2021_3 | 2022-05-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 3974 | J1713+0747  | ZD2021_3 | 2022-05-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 3975 | J0406+3039  | ZD2021_3 | 2022-05-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 3976 | J0509+0856  | ZD2021_3 | 2022-05-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 3977 | J0751+1807  | ZD2021_3 | 2022-05-17 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 3978 | J0621+1002  | ZD2021_3 | 2022-05-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 3979 | J0613-0200  | ZD2021_3 | 2022-05-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 3980 | J0636+5129  | ZD2021_3 | 2022-05-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 3981 | J0645+5158  | ZD2021_3 | 2022-05-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 3982 | J1738+0333  | ZD2021_3 | 2022-05-19 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 3983 | J1853+1303  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 53 57.32 | +13 03 44.05 | /          | /         | /           | /          |
| 3984 | J1832-0836  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 32 27.59 | -08 36 55.02 | /          | /         | /           | /          |
| 3985 | J1843-1113  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 43 41.26 | -11 13 31.07 | /          | /         | /           | /          |
| 3986 | J1918-0642  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 3987 | J1910+1256  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 3988 | J1944+0907  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 3989 | J1955+2908  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 3990 | J2017+0603  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 3991 | J2022+2534  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 3992 | J2033+1734  | ZD2021_3 | 2022-05-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 3993 | J2150-0326  | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 3994 | J2214+3000  | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 3995 | J2234+0611  | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |

| ID   | source_name  | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|--------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 3996 | J2317+1439   | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 3997 | J0023+0923   | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 3998 | J0218+4232   | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 3999 | J0340+4130   | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 4000 | J1024-0719   | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 4001 | J1022+1001   | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 4002 | J1327+3423   | ZD2021_3 | 2022-05-23 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 4003 | J1453+1902   | ZD2021_3 | 2022-05-24 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 4004 | J1630+3734   | ZD2021_3 | 2022-05-24 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 4005 | J1713+0747   | ZD2021_3 | 2022-05-24 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 4006 | J1741+1351   | ZD2021_3 | 2022-05-24 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 4007 | J2222-0137   | ZD2021_3 | 2022-05-24 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 22 22 05.97 | -01 37 15.72 | /          | /         | /           | /          |
| 4008 | J1012+5307   | ZD2021_3 | 2022-05-24 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 4009 | J1643-1224   | ZD2021_3 | 2022-05-25 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 4010 | J1744-1134   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 4011 | J1857+0943   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 4012 | J1903+0327   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 4013 | J1911-1114   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 4014 | J1911+1347   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 4015 | J2010-1323   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 4016 | J1923+2515   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 4017 | J1946+3417   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 4018 | J2019+2425   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 4019 | J2043+1711   | ZD2021_3 | 2022-05-28 | 19波束接收机  | beam01   | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 4020 | J1713+0747   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 4021 | J2145-0750   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 4022 | J2234+0944   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 4023 | J2229+2643   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 4024 | J2302+4442   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 4025 | J2322+2057   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 4026 | J0030+0451_1 | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 4027 | J0406+3039   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 4028 | J0509+0856   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 4029 | J0751+1807   | ZD2021_3 | 2022-05-31 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 4030 | J1640+2224   | ZD2021_3 | 2022-06-01 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 4031 | J1738+0333   | ZD2021_3 | 2022-06-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 4032 | J0621+1002   | ZD2021_3 | 2022-06-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 4033 | J0636+5129   | ZD2021_3 | 2022-06-02 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 4034 | J0613-0200   | ZD2021_3 | 2022-06-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 4035 | J0645+5158   | ZD2021_3 | 2022-06-03 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 4036 | J2150-0326   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 4037 | J2234+0611   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 4038 | J2214+3000   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 4039 | J2317+1439   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 4040 | J0023+0923   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 4041 | J0034-0534   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 34 21.83 | -05 34 36.72 | /          | /         | /           | /          |
| 4042 | J0218+4232   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 4043 | J0340+4130   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 4044 | J1022+1001   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 4045 | J1024-0719   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 4046 | J1012+5307   | ZD2021_3 | 2022-06-05 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 4047 | J1630+3734   | ZD2021_3 | 2022-06-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 4048 | J1453+1902   | ZD2021_3 | 2022-06-06 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 14 53 45.72 | +19 02 12.12 | /          | /         | /           | /          |
| 4049 | J1643-1224   | ZD2021_3 | 2022-06-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 4050 | J1713+0747  | ZD2021_3 | 2022-06-07 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 4051 | J1741+1351  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 4052 | J1744-1134  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 4053 | J1857+0943  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 4054 | J1903+0327  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 4055 | J1911-1114  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |
| 4056 | J1911+1347  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 4057 | J2010-1323  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 4058 | J1923+2515  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 4059 | J1946+3417  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 4060 | J2019+2425  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 4061 | J2043+1711  | ZD2021_3 | 2022-06-10 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 4062 | J0406+3039  | ZD2021_3 | 2022-06-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 04 06 32.50 | +30 39 43.00 | /          | /         | /           | /          |
| 4063 | J0509+0856  | ZD2021_3 | 2022-06-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 05 09 22.23 | +08 56 25.02 | /          | /         | /           | /          |
| 4064 | J0621+1002  | ZD2021_3 | 2022-06-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 21 22.11 | +10 02 38.73 | /          | /         | /           | /          |
| 4065 | J0613-0200  | ZD2021_3 | 2022-06-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 13 43.98 | -02 00 47.23 | /          | /         | /           | /          |
| 4066 | J0751+1807  | ZD2021_3 | 2022-06-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 07 51 09.16 | +18 07 38.49 | /          | /         | /           | /          |
| 4067 | J0645+5158  | ZD2021_3 | 2022-06-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 45 59.08 | +51 58 14.92 | /          | /         | /           | /          |
| 4068 | J1640+2224  | ZD2021_3 | 2022-06-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 40 16.74 | +22 24 08.82 | /          | /         | /           | /          |
| 4069 | J1713+0747  | ZD2021_3 | 2022-06-13 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 4070 | J2145-0750  | ZD2021_3 | 2022-06-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 45 50.46 | -07 50 18.51 | /          | /         | /           | /          |
| 4071 | J2234+0944  | ZD2021_3 | 2022-06-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 46.85 | +09 44 30.25 | /          | /         | /           | /          |
| 4072 | J2229+2643  | ZD2021_3 | 2022-06-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 29 50.88 | +26 43 57.65 | /          | /         | /           | /          |
| 4073 | J2302+4442  | ZD2021_3 | 2022-06-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 02 46.98 | +44 42 22.08 | /          | /         | /           | /          |
| 4074 | J2322+2057  | ZD2021_3 | 2022-06-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 22 22.33 | +20 57 02.68 | /          | /         | /           | /          |
| 4075 | J0030+0451  | ZD2021_3 | 2022-06-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 30 27.43 | +04 51 39.71 | /          | /         | /           | /          |
| 4076 | J0636+5129  | ZD2021_3 | 2022-06-14 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 06 36 04.85 | +51 28 59.97 | /          | /         | /           | /          |
| 4077 | J1738+0333  | ZD2021_3 | 2022-06-15 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 38 53.97 | +03 33 10.88 | /          | /         | /           | /          |
| 4078 | J1918-0642  | ZD2021_3 | 2022-06-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 18 48.03 | -06 42 34.90 | /          | /         | /           | /          |
| 4079 | J1910+1256  | ZD2021_3 | 2022-06-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 10 09.70 | +12 56 25.46 | /          | /         | /           | /          |
| 4080 | J1944+0907  | ZD2021_3 | 2022-06-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 44 09.33 | +09 07 23.01 | /          | /         | /           | /          |
| 4081 | J1955+2908  | ZD2021_3 | 2022-06-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 55 27.87 | +29 08 43.44 | /          | /         | /           | /          |
| 4082 | J2017+0603  | ZD2021_3 | 2022-06-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 17 22.71 | +06 03 05.56 | /          | /         | /           | /          |
| 4083 | J2022+2534  | ZD2021_3 | 2022-06-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 22 33.26 | +25 34 42.50 | /          | /         | /           | /          |
| 4084 | J2033+1734  | ZD2021_3 | 2022-06-18 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 33 27.51 | +17 34 58.47 | /          | /         | /           | /          |
| 4085 | J2214+3000  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 14 38.85 | +30 00 38.19 | /          | /         | /           | /          |
| 4086 | J2317+1439  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 23 17 09.23 | +14 39 31.26 | /          | /         | /           | /          |
| 4087 | J0023+0923  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 00 23 16.88 | +09 23 23.87 | /          | /         | /           | /          |
| 4088 | J0218+4232  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 02 18 06.36 | +42 32 17.38 | /          | /         | /           | /          |
| 4089 | J0340+4130  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 03 40 23.29 | +41 30 45.29 | /          | /         | /           | /          |
| 4090 | J1022+1001  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 22 57.99 | +10 01 52.76 | /          | /         | /           | /          |
| 4091 | J1024-0719  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 24 38.67 | -07 19 19.59 | /          | /         | /           | /          |
| 4092 | J1012+5307  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 10 12 33.44 | +53 07 02.28 | /          | /         | /           | /          |
| 4093 | J1327+3423  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 13 27 07.55 | +34 23 37.64 | /          | /         | /           | /          |
| 4094 | J1630+3734  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 30 36.47 | +37 34 42.10 | /          | /         | /           | /          |
| 4095 | J1713+0747  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 4096 | J1741+1351  | ZD2021_3 | 2022-06-20 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 41 31.14 | +13 51 44.12 | /          | /         | /           | /          |
| 4097 | J2150-0326  | ZD2021_3 | 2022-06-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 21 50 27.23 | -03 26 32.80 | /          | /         | /           | /          |
| 4098 | J2234+0611  | ZD2021_3 | 2022-06-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 22 34 23.07 | +06 11 28.69 | /          | /         | /           | /          |
| 4099 | J1643-1224  | ZD2021_3 | 2022-06-21 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 16 43 38.16 | -12 24 58.68 | /          | /         | /           | /          |
| 4100 | J1744-1134  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 44 29.41 | -11 34 54.68 | /          | /         | /           | /          |
| 4101 | J1857+0943  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 18 57 36.39 | +09 43 17.19 | /          | /         | /           | /          |
| 4102 | J1903+0327  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 03 05.79 | +03 27 19.21 | /          | /         | /           | /          |
| 4103 | J1911-1114  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 49.28 | -11 14 22.48 | /          | /         | /           | /          |

| ID   | source_name | PID      | obs_date   | Receiver | beam_num | backend | obs_mode | data_size(GB) | RA          | DEC          | StartRA/ON | EndRA/OFF | StartDEC/ON | EndDEC/OFF |
|------|-------------|----------|------------|----------|----------|---------|----------|---------------|-------------|--------------|------------|-----------|-------------|------------|
| 4104 | J1911+1347  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 11 55.20 | +13 47 34.36 | /          | /         | /           | /          |
| 4105 | J2010-1323  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 10 45.92 | -13 23 56.08 | /          | /         | /           | /          |
| 4106 | J1923+2515  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 23 22.49 | +25 15 40.59 | /          | /         | /           | /          |
| 4107 | J1946+3417  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 19 46 25.13 | +34 17 14.69 | /          | /         | /           | /          |
| 4108 | J2019+2425  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 19 31.95 | +24 25 15.30 | /          | /         | /           | /          |
| 4109 | J2043+1711  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 20 43 20.88 | +17 11 28.91 | /          | /         | /           | /          |
| 4110 | J1713+0747  | ZD2021_3 | 2022-06-27 | 19波束接收机  | beam1    | psr(4k) | Tracking | 377           | 17 13 49.53 | +07 47 37.48 | /          | /         | /           | /          |
| 4111 | J1713+0747  | ZD2021_3 | 2022-07-04 | 19波束接收机  | beam1    | psr(4k) | Tracking | 753           | 17 13 49.53 | +07 47 37.5  | /          | /         | /           | /          |
| 4112 | J1713+0747  | ZD2021_3 | 2022-07-09 | 19波束接收机  | beam1    | psr(4k) | Tracking | 565           | 17 13 49.53 | +07 47 37.5  | /          | /         | /           | /          |