

Supplementary information

1. The results of the search for a signal by the coincidence method from FRB180916.J0158+65.

Table S1. Objects detected simultaneously in two MASTER-Kislovodsk east and west cameras in place of the FRB, and in two randomly selected empty places. A group of 3 pixels, each of which exceeds the background level by 1 sigma was called an object.

Date, time	Camera EAST		Camera WEST		Position
	Coord J2000	Mag	Coord J2000	Mag	
2020/5/19 23:15	01h 58m 00.42s,+65d 43m 03.1s	18.3	01h 58m 00.54s,+65d 43m 01.3s	18.8	FRB position
2020/4/26 18:57	01h 58m 00.82s,+65d 42m 58.1s	18.5	01h 58m 01.19s,+65d 42m 59.2s	18.1	FRB position
2020/4/26 19:32	01h 58m 00.16s,+65d 42m 57.7s	18.2	01h 58m 00.10s,+65d 43m 00.1s	18.5	FRB position
2020/4/25 18:28	01h 58m 01.20s,+65d 43m 03.6s	18.5	01h 58m 01.14s,+65d 43m 02.8s	18.2	FRB position
2020/5/19 21:12	01h 58m 00.40s,+65d 43m 02.2s	18.6	01h 58m 00.51s,+65d 43m 04.7s	18.1	FRB position
2020/5/17 22:09	01h 58m 01.34s,+65d 43m 02.2s	18.3	01h 58m 01.11s,+65d 43m 01.6s	18.4	FRB position
2020/5/19 22:20	01h 58m 00.33s,+65d 43m 03.8s	17.5	01h 58m 00.63s,+65d 43m 04.1s	17.9	FRB position
2020/5/15 21:36	01h 58m 00.49s,+65d 43m 00.0s	18.3	01h 58m 00.21s,+65d 43m 01.2s	18.4	FRB position
2020/5/15 23:06	01h 58m 00.12s,+65d 42m 59.9s	16.9	01h 58m 00.16s,+65d 42m 59.9s	16.9	FRB position
2020/5/19 20:42	01h 58m 00.52s,+65d 42m 56.7s	18	01h 58m 00.86s,+65d 42m 55.6s	18.6	FRB position
2020/5/19 23:38	01h 58m 00.18s,+65d 42m 59.0s	18	01h 58m 00.35s,+65d 43m 00.0s	18.2	FRB position
2020/5/15 22:49	01h 58m 00.27s,+65d 42m 56.8s	17.3	01h 58m 00.52s,+65d 42m 55.6s	17	FRB position
2020/5/15 22:57	01h 58m 01.15s,+65d 43m 00.3s	17.3	01h 58m 01.25s,+65d 42m 57.7s	17.8	FRB position
2020/4/26 19:49	01h 58m 00.59s,+65d 42m 57.0s	18.1	01h 58m 00.18s,+65d 42m 57.1s	18.5	FRB position
2020/5/19 20:28	01h 58m 01.00s,+65d 43m 02.5s	17.9	01h 58m 01.23s,+65d 43m 01.3s	18.4	FRB position
2020/5/15 22:37	01h 58m 00.72s,+65d 43m 00.5s	17.4	01h 58m 00.38s,+65d 43m 02.6s	18.4	FRB position
2020/4/26 20:45	01h 58m 01.22s,+65d 43m 01.3s	18.1	01h 58m 01.43s,+65d 42m 59.5s	18.4	FRB position
2020/4/24 20:26	01h 58m 00.55s,+65d 42m 58.0s	18.2	01h 58m 00.91s,+65d 42m 58.6s	17.8	FRB position
2020/4/25 17:14	01h 58m 00.53s,+65d 42m 56.0s	17.5	01h 58m 00.34s,+65d 42m 57.0s	16.8	FRB position
2020/5/17 21:51	01h 58m 00.39s,+65d 43m 02.6s	17.5	01h 58m 00.48s,+65d 43m 00.9s	17.8	FRB position
2020/4/26 20:48	01h 58m 00.61s,+65d 43m 01.7s	18.5	01h 58m 00.27s,+65d 43m 03.0s	18.4	FRB position
2020/5/17 18:17	01h 58m 00.96s,+65d 43m 00.0s	17.1	01h 58m 01.19s,+65d 43m 01.6s	17.8	FRB position
2020/4/25 20:32	01h 58m 00.95s,+65d 43m 03.2s	18.1	01h 58m 01.11s,+65d 43m 01.8s	18.4	FRB position
2020/5/15 23:33	01h 58m 00.43s,+65d 42m 58.1s	18.1	01h 58m 00.28s,+65d 42m 59.0s	18.5	FRB position
2020/5/15 22:41	01h 58m 00.10s,+65d 43m 00.7s	17.8	01h 58m 00.31s,+65d 42m 59.9s	18.5	FRB position
2020/4/24 20:27	01h 58m 00.94s,+65d 42m 57.7s	17.8	01h 58m 01.15s,+65d 43m 00.3s	18.5	FRB position

2020/5/15 23:34	01h 58m 00.25s,+65d 42m 56.8s	18.1	01h 58m 00.71s,+65d 42m 57.2s	17.9	FRB position
2020/4/24 17:58	01h 58m 00.75s,+65d 43m 01.0s	18.6	01h 58m 01.14s,+65d 43m 02.6s	18.3	FRB position
2020/5/19 23:52	01h 58m 00.64s,+65d 43m 00.9s	18.5	01h 58m 00.66s,+65d 43m 03.3s	17.5	FRB position
2020/4/25 18:08	01h 58m 00.87s,+65d 42m 59.7s	18.3	01h 58m 01.25s,+65d 42m 59.6s	18.2	FRB position
2020/5/17 18:52	01h 58m 00.47s,+65d 43m 03.0s	17.3	01h 58m 00.43s,+65d 43m 03.7s	17.9	FRB position
2020/5/17 22:23	01h 58m 00.94s,+65d 43m 03.5s	18.1	01h 58m 00.77s,+65d 43m 04.2s	18.1	FRB position
2020/5/14 22:21	01h 58m 00.48s,+65d 43m 00.6s	17.8	01h 58m 00.25s,+65d 42m 59.9s	18	FRB position
2020/5/14 21:04	01h 58m 00.74s,+65d 42m 57.2s	17.5	01h 58m 00.49s,+65d 42m 59.4s	17.7	FRB position
2020/5/14 23:22	01h 58m 00.71s,+65d 43m 01.5s	16.2	01h 58m 00.79s,+65d 42m 59.3s	18.4	FRB position
2020/5/14 23:18	01h 58m 00.65s,+65d 43m 01.1s	18.1	01h 58m 00.51s,+65d 43m 00.9s	18.2	FRB position
2020/5/19 22:21	01h 58m 00.76s,+65d 42m 58.9s	18.7	01h 58m 00.68s,+65d 42m 58.4s	18.4	FRB position
2020/4/26 19:43	01h 58m 00.57s,+65d 42m 58.1s	18.1	01h 58m 00.36s,+65d 42m 57.8s	18.2	FRB position
2020/5/19 23:57	01h 58m 00.69s,+65d 43m 02.4s	18.1	01h 58m 00.52s,+65d 43m 02.7s	17.9	FRB position
2020/5/14 23:49	01h 58m 00.75s,+65d 43m 03.9s	18.2	01h 58m 00.84s,+65d 43m 04.5s	17.7	FRB position
2020/5/15 19:29	01h 58m 00.80s,+65d 42m 58.0s	17.4	01h 58m 00.93s,+65d 42m 56.0s	17.4	FRB position
2020/5/15 20:25	01h 58m 01.47s,+65d 43m 01.5s	17.7	01h 58m 01.12s,+65d 43m 02.9s	17.8	FRB position
2020/5/14 20:43	01h 58m 01.40s,+65d 42m 58.5s	17.3	01h 58m 01.35s,+65d 42m 57.0s	17.4	FRB position
2020/5/19 20:31	01h 58m 00.25s,+65d 42m 58.9s	18.1	01h 58m 00.14s,+65d 43m 00.2s	18.4	FRB position
2020/5/19 21:19	01h 58m 00.92s,+65d 43m 01.5s	18.1	01h 58m 00.89s,+65d 43m 04.4s	18.8	FRB position
2020/5/15 22:40	01h 58m 01.26s,+65d 43m 03.1s	18.4	01h 58m 00.85s,+65d 43m 04.3s	18.6	FRB position
2020/5/17 19:58	01h 58m 00.32s,+65d 42m 58.3s	17.3	01h 58m 00.22s,+65d 42m 59.9s	16.9	FRB position
2020/4/6 21:48	01h 58m 01.08s,+65d 43m 02.6s	19	01h 58m 01.21s,+65d 43m 02.2s	18.7	FRB position
2020/5/14 19:16	01h 58m 01.10s,+65d 43m 01.2s	18.2	01h 58m 01.19s,+65d 43m 03.5s	17.7	FRB position
2020/4/26 19:01	01h 58m 00.40s,+65d 42m 57.2s	18.1	01h 58m 00.67s,+65d 42m 56.2s	18.4	FRB position
2020/5/14 22:00	01h 58m 01.29s,+65d 43m 00.5s	17.9	01h 58m 00.96s,+65d 42m 59.8s	18	FRB position
2020/5/19 23:04	01h 58m 01.38s,+65d 42m 58.8s	18.7	01h 58m 01.51s,+65d 42m 59.9s	18.7	FRB position
2020/4/24 18:43	01h 58m 00.84s,+65d 42m 56.1s	18.2	01h 58m 00.37s,+65d 42m 56.4s	17.9	FRB position
2020/4/25 19:34	01h 58m 00.57s,+65d 42m 58.0s	17.1	01h 58m 00.66s,+65d 42m 57.5s	17.8	FRB position
2020/4/24 20:27	01h 58m 01.16s,+65d 43m 01.6s	18.6	01h 58m 01.11s,+65d 43m 00.4s	18	FRB position
2020/4/26 20:25	01h 58m 00.68s,+65d 42m 57.6s	17.8	01h 58m 00.30s,+65d 42m 56.8s	18.6	FRB position
2020/5/15 23:27	01h 58m 01.20s,+65d 43m 02.9s	17.3	01h 58m 01.13s,+65d 43m 01.8s	17.4	FRB position
2020/4/26 19:09	01h 58m 00.45s,+65d 42m 59.0s	18.2	01h 58m 00.04s,+65d 43m 00.0s	18.1	FRB position
2020/4/24 19:12	01h 58m 01.36s,+65d 43m 02.0s	18.5	01h 58m 01.22s,+65d 43m 02.2s	18.1	FRB position
2020/4/24 20:35	01h 58m 00.86s,+65d 43m 04.0s	18.4	01h 58m 00.88s,+65d 43m 02.5s	18	FRB position

2020/4/26 20:05	01h 58m 00.86s,+65d 43m 00.4s	18.4	01h 58m 01.07s,+65d 43m 00.7s	18.5	FRB position
2020/5/19 21:33	01h 58m 00.45s,+65d 42m 59.6s	18.1	01h 58m 00.74s,+65d 42m 58.1s	18.4	FRB position
2020/5/20 0:09	01h 58m 01.01s,+65d 42m 57.0s	18.4	01h 58m 01.31s,+65d 42m 57.0s	18.5	FRB position
2020/5/17 22:35	01h 58m 01.16s,+65d 43m 02.1s	18.2	01h 58m 00.87s,+65d 43m 03.3s	18.5	FRB position
2020/4/25 20:26	01h 58m 00.21s,+65d 43m 00.8s	17.6	01h 58m 00.47s,+65d 43m 01.0s	18.1	FRB position
2020/4/25 18:35	01h 58m 01.09s,+65d 43m 00.8s	18.5	01h 58m 00.71s,+65d 42m 59.7s	18.5	FRB position
2020/5/19 23:50	01h 58m 01.14s,+65d 42m 57.2s	18.4	01h 58m 00.99s,+65d 42m 56.4s	18.1	FRB position
2020/5/19 22:28	01h 58m 00.56s,+65d 42m 57.7s	18.7	01h 58m 00.25s,+65d 42m 59.3s	18.5	FRB position
2020/5/19 22:51	01h 58m 01.35s,+65d 43m 01.3s	18.7	01h 58m 01.30s,+65d 43m 01.3s	18.8	FRB position
2020/4/26 19:23	01h 58m 00.96s,+65d 42m 59.6s	17.8	01h 58m 01.03s,+65d 42m 57.6s	18	FRB position
2020/4/26 20:17	01h 58m 00.98s,+65d 43m 01.7s	18.5	01h 58m 01.33s,+65d 43m 00.3s	17.6	FRB position
2020/5/14 20:00	01h 58m 00.66s,+65d 43m 05.1s	17.8	01h 58m 00.79s,+65d 43m 04.5s	17.6	FRB position
2020/5/14 20:28	01h 58m 01.28s,+65d 42m 57.5s	16.6	01h 58m 01.18s,+65d 42m 57.4s	17	FRB position
2020/5/19 23:49	01h 58m 01.21s,+65d 43m 00.3s	18.3	01h 58m 01.54s,+65d 42m 59.8s	18.6	FRB position
2020/4/25 17:55	01h 58m 00.66s,+65d 43m 00.8s	18.4	01h 58m 00.55s,+65d 42m 58.4s	17.4	FRB position
2020/4/25 19:19	01h 58m 00.73s,+65d 42m 58.8s	18	01h 58m 00.34s,+65d 42m 59.9s	17.8	FRB position
2020/5/15 22:56	01h 58m 01.08s,+65d 42m 59.3s	17.7	01h 58m 01.18s,+65d 42m 57.8s	17.7	FRB position
2020/4/26 20:04	01h 58m 00.83s,+65d 43m 04.5s	17.7	01h 58m 00.95s,+65d 43m 04.2s	18.2	FRB position
2020/4/26 20:16	01h 58m 00.50s,+65d 42m 59.7s	18.5	01h 58m 00.26s,+65d 43m 01.7s	18.2	FRB position
2020/5/15 23:56	01h 58m 00.19s,+65d 43m 02.0s	17.6	01h 58m 00.35s,+65d 43m 03.1s	18.3	FRB position
2020/5/19 21:49	01h 58m 00.45s,+65d 42m 58.2s	17.8	01h 58m 00.37s,+65d 43m 00.1s	18.5	FRB position
2020/5/14 22:53	01h 58m 00.21s,+65d 43m 02.5s	18.2	01h 58m 00.41s,+65d 43m 01.6s	18.3	FRB position
2020/4/25 19:38	01h 58m 00.24s,+65d 42m 58.7s	17.4	01h 58m 00.46s,+65d 42m 57.2s	15.7	FRB position
2020/5/14 23:08	01h 58m 00.33s,+65d 42m 59.3s	17.6	01h 58m 00.39s,+65d 42m 56.5s	17.7	FRB position
2020/5/14 21:53	01h 58m 00.71s,+65d 42m 57.6s	17	01h 58m 00.89s,+65d 42m 57.5s	18.2	FRB position
2020/4/24 20:34	01h 58m 00.40s,+65d 42m 56.1s	18.7	01h 58m 00.81s,+65d 42m 56.5s	17.7	FRB position
2020/5/17 22:18	01h 58m 00.63s,+65d 42m 59.5s	18.1	01h 58m 00.85s,+65d 43m 01.0s	18.2	FRB position
2020/4/24 20:18	01h 58m 00.36s,+65d 43m 04.2s	17.7	01h 58m 00.20s,+65d 43m 02.9s	18.6	FRB position
2020/4/26 19:27	01h 58m 00.91s,+65d 43m 02.6s	18.5	01h 58m 00.84s,+65d 43m 02.3s	18.5	FRB position
2020/5/15 21:00	01h 58m 00.13s,+65d 43m 00.2s	18.3	01h 58m 00.36s,+65d 43m 02.0s	17.9	FRB position
2020/5/14 22:42	01h 58m 00.55s,+65d 43m 00.5s	17.5	01h 58m 00.87s,+65d 43m 00.1s	17.3	FRB position
2020/5/15 20:04	01h 58m 00.78s,+65d 42m 56.7s	17.8	01h 58m 00.82s,+65d 42m 55.5s	17.2	FRB position
2020/5/19 22:21	01h 58m 00.90s,+65d 43m 02.3s	18.6	01h 58m 00.75s,+65d 42m 59.6s	18.1	FRB position
2020/5/14 20:45	01h 58m 00.44s,+65d 42m 56.6s	17.1	01h 58m 00.81s,+65d 42m 58.4s	17.6	FRB position

2020/4/25 20:41	01h 58m 00.61s,+65d 42m 57.4s	17.5	01h 58m 00.89s,+65d 42m 55.6s	18.5	FRB position
2020/5/19 23:00	01h 58m 01.32s,+65d 43m 01.0s	17.8	01h 58m 01.40s,+65d 43m 01.6s	18.7	FRB position
2020/5/17 19:14	01h 58m 00.20s,+65d 42m 58.5s	17.7	01h 58m 00.32s,+65d 42m 59.2s	18.4	FRB position
2020/5/19 23:57	01h 58m 00.82s,+65d 42m 58.6s	18.4	01h 58m 01.15s,+65d 42m 56.9s	18.6	FRB position
2020/5/19 23:33	01h 58m 01.18s,+65d 42m 56.6s	18.3	01h 58m 00.97s,+65d 42m 58.1s	18.8	FRB position
2020/5/14 22:41	01h 58m 00.86s,+65d 42m 56.8s	16.8	01h 58m 00.86s,+65d 42m 57.8s	17.5	FRB position
2020/5/15 21:05	01h 58m 00.44s,+65d 43m 01.0s	18	01h 58m 00.28s,+65d 42m 59.7s	18.3	FRB position
2020/5/17 18:02	01h 58m 00.05s,+65d 43m 00.1s	17.3	01h 58m 00.15s,+65d 43m 02.9s	17.5	FRB position
2020/5/19 22:01	01h 58m 00.26s,+65d 42m 56.5s	17.5	01h 58m 00.22s,+65d 42m 56.6s	18.5	FRB position
2020/4/25 17:16	01h 58m 00.66s,+65d 43m 04.5s	17.7	01h 58m 00.53s,+65d 43m 03.4s	16.9	FRB position
2020/5/19 21:49	01h 58m 00.46s,+65d 42m 58.8s	18.6	01h 58m 00.14s,+65d 43m 00.3s	18.7	FRB position
2020/5/15 23:37	01h 58m 01.13s,+65d 43m 03.1s	18.5	01h 58m 01.14s,+65d 43m 01.9s	18.6	FRB position
2020/4/25 19:37	01h 58m 00.59s,+65d 43m 01.5s	16.7	01h 58m 00.34s,+65d 43m 02.4s	17.5	FRB position
2020/5/17 18:18	01h 58m 00.79s,+65d 43m 03.0s	17.8	01h 58m 01.21s,+65d 43m 02.1s	16.8	FRB position
2020/5/19 22:18	01h 58m 00.87s,+65d 42m 58.4s	18.1	01h 58m 01.00s,+65d 42m 58.3s	18.8	FRB position
2020/5/20 0:02	01h 58m 00.74s,+65d 42m 58.4s	17.7	01h 58m 01.05s,+65d 42m 59.3s	17.6	FRB position
2020/5/19 23:36	01h 58m 00.57s,+65d 43m 02.7s	18.4	01h 58m 00.44s,+65d 43m 01.6s	17.8	FRB position
2020/4/6 21:00	01h 58m 00.76s,+65d 42m 58.8s	18.9	01h 58m 00.97s,+65d 43m 01.1s	17.4	FRB position
2020/4/24 20:27	01h 58m 00.72s,+65d 42m 57.0s	17.7	01h 58m 00.94s,+65d 42m 58.6s	18.6	FRB position
2020/5/15 22:07	01h 58m 00.65s,+65d 43m 04.7s	17.3	01h 58m 00.92s,+65d 43m 02.7s	18.4	FRB position
2020/5/19 21:29	01h 58m 00.38s,+65d 43m 00.9s	18.6	01h 58m 00.06s,+65d 43m 01.1s	18	FRB position
2020/5/19 22:04	01h 58m 00.53s,+65d 43m 04.4s	18	01h 58m 00.66s,+65d 43m 01.8s	18.8	FRB position
2020/5/20 0:12	01h 58m 00.61s,+65d 42m 56.9s	17.9	01h 58m 01.01s,+65d 42m 56.0s	18.1	FRB position
2020/4/25 17:41	01h 58m 00.86s,+65d 42m 58.6s	18.4	01h 58m 00.41s,+65d 42m 58.6s	18.4	FRB position
2020/5/19 21:43	01h 58m 00.62s,+65d 42m 56.0s	18.6	01h 58m 00.95s,+65d 42m 57.7s	18.5	FRB position
2020/4/26 19:52	01h 58m 01.15s,+65d 43m 00.0s	18.5	01h 58m 01.25s,+65d 43m 00.3s	17.8	FRB position
2020/5/14 19:05	01h 58m 00.24s,+65d 42m 59.1s	18	01h 58m 00.42s,+65d 42m 58.9s	17.7	FRB position
2020/4/26 19:07	01h 58m 01.06s,+65d 42m 57.9s	18	01h 58m 00.69s,+65d 42m 59.3s	17.8	FRB position
2020/4/26 20:08	01h 58m 01.42s,+65d 43m 02.4s	17.9	01h 58m 01.33s,+65d 43m 03.4s	18.2	FRB position
2020/5/19 20:33	01h 58m 00.50s,+65d 43m 01.1s	18.5	01h 58m 00.54s,+65d 42m 58.3s	17.8	FRB position
2020/4/25 18:24	01h 58m 00.99s,+65d 43m 00.7s	18.2	01h 58m 00.90s,+65d 43m 00.7s	17.8	FRB position
2020/5/15 19:48	01h 58m 00.95s,+65d 43m 04.2s	17.1	01h 58m 00.66s,+65d 43m 04.8s	18	FRB position
2020/5/19 22:23	01h 58m 00.89s,+65d 43m 02.9s	18.3	01h 58m 01.27s,+65d 43m 03.4s	18.7	FRB position
2020/5/20 0:25	01h 58m 01.23s,+65d 42m 59.7s	17	01h 58m 01.48s,+65d 42m 58.7s	17.3	FRB position

2020/5/14 22:17	01h 58m 00.35s,+65d 42m 56.8s	17.7	01h 58m 00.37s,+65d 42m 56.9s	18.2	FRB position
2020/5/19 22:01	01h 58m 00.74s,+65d 42m 58.2s	18.4	01h 58m 00.75s,+65d 42m 56.5s	18.3	FRB position
2020/5/15 20:26	01h 58m 01.24s,+65d 43m 02.2s	18	01h 58m 01.34s,+65d 42m 59.9s	17.3	FRB position
2020/4/26 19:10	01h 58m 01.54s,+65d 43m 00.5s	17.4	01h 58m 01.21s,+65d 43m 01.8s	18.4	FRB position
2020/4/25 18:56	01h 58m 00.51s,+65d 42m 58.4s	18.5	01h 58m 00.86s,+65d 42m 58.3s	18.3	FRB position
2020/5/14 22:20	01h 58m 00.21s,+65d 43m 01.0s	18	01h 58m 00.52s,+65d 43m 02.2s	18.2	FRB position
2020/5/15 22:49	01h 58m 00.48s,+65d 42m 59.5s	17.8	01h 58m 00.69s,+65d 42m 59.2s	18.2	FRB position
2020/5/17 18:42	01h 58m 01.19s,+65d 43m 00.5s	18	01h 58m 01.04s,+65d 42m 58.0s	18	FRB position
2020/5/15 18:42	01h 58m 00.63s,+65d 43m 02.0s	17.7	01h 58m 00.40s,+65d 43m 02.1s	18.2	FRB position
2020/4/25 19:50	01h 58m 01.21s,+65d 42m 56.9s	17.6	01h 58m 01.48s,+65d 42m 58.7s	17.7	FRB position
2020/5/14 19:48	01h 58m 00.57s,+65d 43m 03.8s	17.9	01h 58m 00.51s,+65d 43m 04.6s	18	FRB position
2020/4/26 19:15	01h 58m 00.59s,+65d 43m 04.5s	17.8	01h 58m 00.42s,+65d 43m 04.7s	17.1	FRB position
2020/5/17 19:20	01h 58m 00.93s,+65d 42m 59.0s	16.7	01h 58m 01.12s,+65d 42m 59.5s	17.9	FRB position
2020/4/24 18:30	01h 58m 00.99s,+65d 42m 58.1s	18.3	01h 58m 01.00s,+65d 42m 56.7s	17.7	FRB position
2020/5/19 22:51	01h 58m 01.28s,+65d 42m 60.0s	18.1	01h 58m 01.25s,+65d 42m 58.3s	18.8	FRB position
2020/5/20 0:37	01h 58m 00.63s,+65d 43m 03.5s	16.9	01h 58m 00.41s,+65d 43m 02.1s	17.3	FRB position
2020/5/14 22:41	01h 58m 00.56s,+65d 42m 57.6s	18.2	01h 58m 00.11s,+65d 42m 57.4s	17.9	FRB position
2020/5/19 23:49	01h 58m 01.34s,+65d 43m 02.2s	18.1	01h 58m 01.30s,+65d 43m 00.7s	18.7	FRB position
2020/5/19 22:14	01h 58m 00.01s,+65d 42m 59.2s	18.7	01h 58m 00.08s,+65d 43m 01.0s	18.8	FRB position
2020/4/6 20:40	01h 58m 01.18s,+65d 43m 02.2s	18.7	01h 58m 00.90s,+65d 43m 03.4s	18.5	FRB position
2020/4/24 18:26	01h 58m 01.15s,+65d 42m 58.9s	17.8	01h 58m 00.96s,+65d 42m 59.2s	17.9	FRB position
2020/5/14 22:32	01h 58m 00.56s,+65d 43m 01.4s	17.2	01h 58m 00.51s,+65d 43m 00.3s	17.8	FRB position
2020/5/19 23:33	01h 58m 00.32s,+65d 43m 04.0s	18.5	01h 58m 00.90s,+65d 42m 59.6s	18.4	FRB position
2020/5/15 19:19	01h 58m 00.75s,+65d 42m 57.3s	18.2	01h 58m 01.04s,+65d 42m 56.8s	18.1	FRB position
2020/5/15 22:32	01h 58m 00.48s,+65d 43m 01.4s	18.5	01h 58m 00.18s,+65d 42m 59.3s	18.2	FRB position
2020/4/6 21:33	01h 58m 00.83s,+65d 43m 01.1s	18.3	01h 58m 00.89s,+65d 43m 03.6s	18.1	FRB position
2020/4/6 21:29	01h 58m 01.15s,+65d 42m 58.4s	18	01h 58m 01.45s,+65d 42m 57.8s	17.9	FRB position
2020/5/14 22:17	01h 58m 01.05s,+65d 42m 59.2s	17.5	01h 58m 01.20s,+65d 42m 58.0s	17.9	FRB position
2020/4/26 18:56	01h 58m 00.60s,+65d 43m 00.4s	17.9	01h 58m 00.59s,+65d 42m 60.0s	18.1	FRB position
2020/4/24 20:41	01h 58m 00.54s,+65d 42m 59.4s	18.7	01h 58m 00.22s,+65d 43m 00.3s	18.7	FRB position
2020/4/24 18:08	01h 58m 00.04s,+65d 43m 00.0s	18.7	01h 58m 00.10s,+65d 43m 02.1s	18.7	FRB position
2020/4/25 20:10	01h 58m 01.14s,+65d 42m 57.8s	17.7	01h 58m 01.39s,+65d 43m 00.2s	18.2	FRB position
2020/5/20 0:20	01h 58m 00.17s,+65d 43m 03.1s	17.4	01h 58m 00.18s,+65d 43m 01.1s	17.3	FRB position
2020/4/25 18:56	01h 58m 00.49s,+65d 43m 02.2s	18.3	01h 58m 00.58s,+65d 43m 00.6s	18.5	FRB position

2020/4/25 18:28	01h 58m 00.43s,+65d 42m 59.8s	18.6	01h 58m 00.51s,+65d 43m 02.0s	18.6	FRB position
2020/4/25 19:38	01h 58m 01.42s,+65d 43m 01.4s	16.7	01h 58m 01.19s,+65d 43m 01.6s	17.1	FRB position
2020/5/15 19:55	01h 58m 00.35s,+65d 42m 59.8s	17.4	01h 58m 00.68s,+65d 42m 57.7s	16.3	FRB position
2020/5/15 22:53	01h 58m 01.04s,+65d 42m 57.8s	18	01h 58m 01.10s,+65d 42m 60.0s	17.8	FRB position
2020/5/17 22:12	01h 58m 00.47s,+65d 42m 58.9s	18.3	01h 58m 00.64s,+65d 42m 56.9s	18.4	FRB position
2020/4/26 18:58	01h 58m 00.62s,+65d 42m 58.9s	17.7	01h 58m 00.20s,+65d 42m 59.8s	17.8	FRB position
2020/4/24 18:08	01h 58m 01.38s,+65d 42m 58.9s	18.3	01h 58m 01.15s,+65d 42m 56.4s	18.7	FRB position
2020/5/17 17:54	01h 58m 13.14s,+65d 46m 24.5s	17.7	01h 58m 13.20s,+65d 46m 23.5s	18	Empty position 1
2020/4/25 17:57	01h 58m 13.33s,+65d 46m 24.2s	18.2	01h 58m 13.39s,+65d 46m 23.6s	18.6	Empty position 1
2020/5/14 23:46	01h 58m 12.82s,+65d 46m 28.8s	17.7	01h 58m 12.90s,+65d 46m 26.0s	17.5	Empty position 1
2020/5/17 22:31	01h 58m 13.01s,+65d 46m 23.9s	17.8	01h 58m 13.24s,+65d 46m 25.3s	17.1	Empty position 1
2020/5/17 22:28	01h 58m 13.03s,+65d 46m 27.3s	17.9	01h 58m 12.97s,+65d 46m 26.7s	17.7	Empty position 1
2020/4/25 19:27	01h 58m 13.90s,+65d 46m 29.4s	17.8	01h 58m 13.81s,+65d 46m 28.3s	17.5	Empty position 1
2020/5/15 18:33	01h 58m 13.00s,+65d 46m 23.5s	18.1	01h 58m 13.41s,+65d 46m 25.0s	18.2	Empty position 1
2020/5/15 20:51	01h 58m 13.22s,+65d 46m 25.6s	18.1	01h 58m 13.26s,+65d 46m 27.1s	18.4	Empty position 1
2020/4/25 20:15	01h 58m 13.41s,+65d 46m 29.9s	17.3	01h 58m 13.11s,+65d 46m 27.7s	17.6	Empty position 1
2020/5/14 22:25	01h 58m 13.44s,+65d 46m 26.9s	17.7	01h 58m 13.43s,+65d 46m 25.9s	17.5	Empty position 1
2020/5/19 23:26	01h 58m 12.83s,+65d 46m 30.3s	18.3	01h 58m 12.91s,+65d 46m 30.5s	18.5	Empty position 1
2020/5/14 19:06	01h 58m 12.81s,+65d 46m 25.9s	17.2	01h 58m 12.76s,+65d 46m 24.6s	17.4	Empty position 1
2020/5/17 19:07	01h 58m 13.31s,+65d 46m 30.5s	17.8	01h 58m 13.65s,+65d 46m 30.3s	17.7	Empty position 1
2020/5/17 18:46	01h 58m 13.78s,+65d 46m 28.1s	18.2	01h 58m 13.87s,+65d 46m 28.7s	18.1	Empty position 1
2020/4/24 19:34	01h 58m 12.87s,+65d 46m 30.5s	18.6	01h 58m 13.05s,+65d 46m 28.2s	18.4	Empty position 1
2020/5/15 22:57	01h 58m 13.48s,+65d 46m 27.5s	17	01h 58m 13.15s,+65d 46m 29.6s	17.2	Empty position 1
2020/5/15 21:28	01h 58m 12.90s,+65d 46m 28.6s	18.4	01h 58m 12.74s,+65d 46m 30.6s	17.7	Empty position 1
2020/5/20 0:23	01h 58m 13.21s,+65d 46m 29.6s	17	01h 58m 13.23s,+65d 46m 27.7s	17.9	Empty position 1
2020/4/25 19:34	01h 58m 13.41s,+65d 46m 26.6s	18.2	01h 58m 13.75s,+65d 46m 26.2s	17.9	Empty position 1
2020/5/19 22:07	01h 58m 12.61s,+65d 46m 27.3s	18.2	01h 58m 13.07s,+65d 46m 27.4s	17.9	Empty position 1
2020/5/15 18:22	01h 58m 13.71s,+65d 46m 31.8s	18.2	01h 58m 13.35s,+65d 46m 31.7s	18.2	Empty position 1
2020/5/19 23:06	01h 58m 13.22s,+65d 46m 27.5s	18.4	01h 58m 13.29s,+65d 46m 25.7s	17.8	Empty position 1
2020/5/14 23:38	01h 58m 13.47s,+65d 46m 24.2s	17	01h 58m 13.32s,+65d 46m 25.2s	18.2	Empty position 1
2020/5/19 22:44	01h 58m 13.11s,+65d 46m 29.8s	18.7	01h 58m 13.03s,+65d 46m 29.1s	18.7	Empty position 1
2020/5/14 18:45	01h 58m 13.97s,+65d 46m 30.9s	17.6	01h 58m 13.88s,+65d 46m 31.1s	18	Empty position 1
2020/5/15 20:54	01h 58m 12.71s,+65d 46m 25.2s	17.9	01h 58m 12.85s,+65d 46m 26.0s	18.2	Empty position 1
2020/5/14 20:23	01h 58m 13.24s,+65d 46m 27.2s	16.6	01h 58m 13.40s,+65d 46m 27.7s	17.4	Empty position 1

2020/5/15 23:26	01h 58m 13.10s,+65d 46m 28.0s	15.8	01h 58m 13.03s,+65d 46m 30.1s	16.2	Empty position 1
2020/5/14 23:14	01h 58m 13.04s,+65d 46m 25.7s	18.3	01h 58m 13.16s,+65d 46m 26.0s	17.4	Empty position 1
2020/5/15 19:00	01h 58m 13.04s,+65d 46m 28.6s	18.2	01h 58m 13.15s,+65d 46m 29.3s	17.9	Empty position 1
2020/5/17 18:35	01h 58m 12.77s,+65d 46m 30.0s	17.8	01h 58m 12.69s,+65d 46m 29.0s	17.5	Empty position 1
2020/5/14 23:14	01h 58m 13.78s,+65d 46m 30.7s	18.4	01h 58m 13.48s,+65d 46m 31.0s	17.8	Empty position 1
2020/5/17 18:00	01h 58m 13.36s,+65d 46m 26.6s	17.8	01h 58m 13.37s,+65d 46m 26.6s	17.4	Empty position 1
2020/5/14 23:22	01h 58m 13.43s,+65d 46m 28.4s	17.6	01h 58m 13.74s,+65d 46m 26.1s	17.5	Empty position 1
2020/5/15 21:03	01h 58m 13.75s,+65d 46m 25.7s	18.2	01h 58m 13.38s,+65d 46m 27.5s	17.5	Empty position 1
2020/5/20 0:36	01h 58m 13.60s,+65d 46m 24.0s	17.2	01h 58m 13.50s,+65d 46m 23.2s	17.4	Empty position 1
2020/5/20 0:31	01h 58m 13.19s,+65d 46m 31.2s	17.6	01h 58m 13.50s,+65d 46m 30.0s	17	Empty position 1
2020/4/25 17:55	01h 58m 13.24s,+65d 46m 28.6s	18.3	01h 58m 13.53s,+65d 46m 28.1s	17.9	Empty position 1
2020/5/17 21:39	01h 58m 13.62s,+65d 46m 30.5s	17.8	01h 58m 13.42s,+65d 46m 29.1s	17.7	Empty position 1
2020/4/24 19:23	01h 58m 14.00s,+65d 46m 26.8s	18.6	01h 58m 13.84s,+65d 46m 25.3s	18.5	Empty position 1
2020/5/15 23:30	01h 58m 14.06s,+65d 46m 30.2s	17.9	01h 58m 13.86s,+65d 46m 31.3s	17.9	Empty position 1
2020/5/14 18:34	01h 58m 13.25s,+65d 46m 25.7s	17.8	01h 58m 12.89s,+65d 46m 25.1s	18.1	Empty position 1
2020/4/25 19:18	01h 58m 13.60s,+65d 46m 29.7s	18.4	01h 58m 13.61s,+65d 46m 32.1s	18	Empty position 1
2020/5/19 22:04	01h 58m 13.95s,+65d 46m 25.3s	18.8	01h 58m 13.56s,+65d 46m 24.4s	18.1	Empty position 1
2020/4/25 18:51	01h 58m 13.61s,+65d 46m 31.2s	18.6	01h 58m 13.32s,+65d 46m 32.0s	18.1	Empty position 1
2020/5/15 19:16	01h 58m 13.66s,+65d 46m 27.5s	17.9	01h 58m 13.39s,+65d 46m 26.4s	17.8	Empty position 1
2020/5/17 17:57	01h 58m 13.30s,+65d 46m 27.9s	17.2	01h 58m 13.74s,+65d 46m 28.5s	18.1	Empty position 1
2020/4/24 18:46	01h 58m 12.94s,+65d 46m 27.3s	18.6	01h 58m 12.88s,+65d 46m 29.3s	18.7	Empty position 1
2020/4/25 20:51	01h 58m 12.95s,+65d 46m 27.8s	18.2	01h 58m 12.64s,+65d 46m 25.7s	18.5	Empty position 1
2020/5/15 23:46	01h 58m 13.37s,+65d 46m 31.1s	18.5	01h 58m 12.98s,+65d 46m 30.2s	18.6	Empty position 1
2020/5/19 20:45	01h 58m 13.14s,+65d 46m 30.5s	18.6	01h 58m 12.71s,+65d 46m 30.1s	18.1	Empty position 1
2020/5/20 0:18	01h 58m 13.64s,+65d 46m 27.1s	18.1	01h 58m 13.61s,+65d 46m 29.6s	18	Empty position 1
2020/5/15 18:55	01h 58m 12.75s,+65d 46m 25.6s	18.4	01h 58m 12.77s,+65d 46m 26.9s	18.3	Empty position 1
2020/4/25 18:23	01h 58m 13.67s,+65d 46m 25.5s	17.9	01h 58m 13.79s,+65d 46m 26.8s	18	Empty position 1
2020/5/17 21:39	01h 58m 13.49s,+65d 46m 26.4s	17.8	01h 58m 13.20s,+65d 46m 25.7s	17.2	Empty position 1
2020/5/15 23:32	01h 58m 13.47s,+65d 46m 28.4s	17.4	01h 58m 13.15s,+65d 46m 27.7s	18.4	Empty position 1
2020/5/14 23:42	01h 58m 13.82s,+65d 46m 28.4s	18.1	01h 58m 13.68s,+65d 46m 28.9s	18.3	Empty position 1
2020/5/17 18:24	01h 58m 13.75s,+65d 46m 25.3s	16.5	01h 58m 13.48s,+65d 46m 27.6s	17.8	Empty position 1
2020/4/26 20:35	01h 58m 13.40s,+65d 46m 30.7s	18.3	01h 58m 13.31s,+65d 46m 32.3s	18.1	Empty position 1
2020/5/17 21:37	01h 58m 13.71s,+65d 46m 31.3s	17.8	01h 58m 13.36s,+65d 46m 31.2s	17.6	Empty position 1
2020/5/17 21:38	01h 58m 13.23s,+65d 46m 29.6s	16.9	01h 58m 12.88s,+65d 46m 29.4s	17.9	Empty position 1

2020/5/14 23:41	01h 58m 13.02s,+65d 46m 27.4s	18.4	01h 58m 13.32s,+65d 46m 28.1s	17.8	Empty position 1
2020/5/14 22:18	01h 58m 12.63s,+65d 46m 26.6s	18.1	01h 58m 13.00s,+65d 46m 26.4s	17.9	Empty position 1
2020/5/15 22:04	01h 58m 13.27s,+65d 46m 30.0s	18.1	01h 58m 13.47s,+65d 46m 31.5s	17.8	Empty position 1
2020/5/14 22:56	01h 58m 13.10s,+65d 46m 25.8s	18	01h 58m 13.08s,+65d 46m 27.0s	17.7	Empty position 1
2020/4/24 19:02	01h 58m 13.28s,+65d 46m 24.7s	18.6	01h 58m 13.70s,+65d 46m 24.4s	18.5	Empty position 1
2020/5/14 17:51	01h 58m 13.62s,+65d 46m 25.3s	16.9	01h 58m 13.28s,+65d 46m 25.3s	17.4	Empty position 1
2020/5/14 17:49	01h 58m 13.71s,+65d 46m 27.3s	16.9	01h 58m 13.33s,+65d 46m 27.4s	16.8	Empty position 1
2020/5/20 0:16	01h 58m 13.29s,+65d 46m 28.3s	18	01h 58m 13.25s,+65d 46m 26.0s	17.4	Empty position 1
2020/4/26 18:48	01h 58m 12.85s,+65d 46m 31.6s	18	01h 58m 12.99s,+65d 46m 31.9s	17.4	Empty position 1
2020/5/14 23:50	01h 58m 13.43s,+65d 46m 25.1s	18.1	01h 58m 13.46s,+65d 46m 27.9s	17.8	Empty position 1
2020/5/14 19:08	01h 58m 13.34s,+65d 46m 25.9s	16.8	01h 58m 13.16s,+65d 46m 23.5s	16.9	Empty position 1
2020/5/14 20:48	01h 58m 13.80s,+65d 46m 30.0s	17.6	01h 58m 13.37s,+65d 46m 29.0s	17.8	Empty position 1
2020/5/15 22:08	01h 58m 13.16s,+65d 46m 26.6s	17.8	01h 58m 13.48s,+65d 46m 26.4s	18.6	Empty position 1
2020/5/19 21:51	01h 58m 13.42s,+65d 46m 30.0s	18.5	01h 58m 13.50s,+65d 46m 32.4s	18	Empty position 1
2020/5/14 19:29	01h 58m 13.51s,+65d 46m 31.5s	17.9	01h 58m 13.67s,+65d 46m 31.1s	18	Empty position 1
2020/4/25 20:10	01h 58m 13.47s,+65d 46m 26.4s	17.7	01h 58m 13.20s,+65d 46m 27.9s	17.8	Empty position 1
2020/5/19 23:05	01h 58m 13.65s,+65d 46m 23.7s	18.6	01h 58m 13.67s,+65d 46m 23.4s	18.7	Empty position 1
2020/5/17 18:21	01h 58m 13.68s,+65d 46m 28.2s	17.7	01h 58m 13.61s,+65d 46m 29.9s	17.9	Empty position 1
2020/5/19 21:17	01h 58m 13.38s,+65d 46m 29.6s	18.2	01h 58m 13.36s,+65d 46m 31.8s	18.4	Empty position 1
2020/4/24 18:06	01h 58m 13.46s,+65d 46m 27.5s	18.6	01h 58m 13.45s,+65d 46m 27.0s	18.7	Empty position 1
2020/5/19 23:30	01h 58m 13.52s,+65d 46m 26.5s	17.8	01h 58m 13.17s,+65d 46m 24.8s	18.5	Empty position 1
2020/5/14 22:05	01h 58m 13.46s,+65d 46m 26.8s	18.1	01h 58m 13.28s,+65d 46m 24.2s	18.1	Empty position 1
2020/5/15 22:53	01h 58m 13.34s,+65d 46m 28.0s	17.4	01h 58m 13.38s,+65d 46m 30.1s	17.9	Empty position 1
2020/5/14 23:44	01h 58m 13.71s,+65d 46m 26.9s	18	01h 58m 13.76s,+65d 46m 25.7s	18.2	Empty position 1
2020/4/25 19:36	01h 57m 57.60s,+65d 43m 51.5s	16.9	01h 57m 57.54s,+65d 43m 48.9s	17.3	Empty position 2
2020/5/15 22:44	01h 57m 57.30s,+65d 43m 53.1s	18.4	01h 57m 57.28s,+65d 43m 52.9s	18.2	Empty position 2
2020/5/14 18:59	01h 57m 57.62s,+65d 43m 46.1s	17.9	01h 57m 57.72s,+65d 43m 48.0s	18.3	Empty position 2
2020/5/14 22:33	01h 57m 57.33s,+65d 43m 48.4s	18.2	01h 57m 57.16s,+65d 43m 50.7s	17.4	Empty position 2
2020/4/24 19:05	01h 57m 57.36s,+65d 43m 49.7s	18.6	01h 57m 57.35s,+65d 43m 51.1s	18.7	Empty position 2
2020/5/17 18:56	01h 57m 56.57s,+65d 43m 50.1s	18	01h 57m 56.84s,+65d 43m 50.6s	18.3	Empty position 2
2020/5/19 21:51	01h 57m 57.18s,+65d 43m 50.7s	17.8	01h 57m 57.62s,+65d 43m 49.6s	18.1	Empty position 2
2020/4/25 18:24	01h 57m 57.64s,+65d 43m 49.3s	18	01h 57m 57.54s,+65d 43m 50.0s	18	Empty position 2
2020/5/19 20:45	01h 57m 57.95s,+65d 43m 48.3s	18.5	01h 57m 57.73s,+65d 43m 46.2s	18.6	Empty position 2
2020/5/15 23:35	01h 57m 57.56s,+65d 43m 47.6s	18.4	01h 57m 57.66s,+65d 43m 49.0s	18.4	Empty position 2

2020/5/15 20:17	01h 57m 56.60s,+65d 43m 48.3s	17.5	01h 57m 56.68s,+65d 43m 51.1s	18	Empty position 2
2020/5/14 19:47	01h 57m 56.69s,+65d 43m 48.3s	17.5	01h 57m 56.91s,+65d 43m 46.8s	17.2	Empty position 2
2020/4/26 19:20	01h 57m 57.39s,+65d 43m 45.1s	18	01h 57m 57.05s,+65d 43m 47.1s	18.5	Empty position 2
2020/5/14 17:57	01h 57m 57.07s,+65d 43m 53.5s	17.5	01h 57m 57.30s,+65d 43m 51.0s	17.4	Empty position 2
2020/5/14 19:37	01h 57m 57.36s,+65d 43m 48.5s	17.5	01h 57m 57.41s,+65d 43m 46.9s	17.8	Empty position 2
2020/5/14 22:31	01h 57m 56.87s,+65d 43m 46.1s	17.9	01h 57m 57.26s,+65d 43m 46.8s	17.9	Empty position 2
2020/5/14 23:44	01h 57m 57.53s,+65d 43m 52.6s	17	01h 57m 57.31s,+65d 43m 52.2s	17.6	Empty position 2
2020/5/19 22:53	01h 57m 56.96s,+65d 43m 45.0s	18.2	01h 57m 57.28s,+65d 43m 45.9s	18.8	Empty position 2
2020/5/15 22:48	01h 57m 57.52s,+65d 43m 46.3s	18.2	01h 57m 57.43s,+65d 43m 46.0s	17	Empty position 2
2020/4/24 20:31	01h 57m 57.73s,+65d 43m 51.4s	17.5	01h 57m 57.78s,+65d 43m 50.8s	17.7	Empty position 2
2020/5/17 17:53	01h 57m 57.48s,+65d 43m 53.1s	17.6	01h 57m 57.09s,+65d 43m 51.6s	18.1	Empty position 2
2020/5/14 23:15	01h 57m 56.86s,+65d 43m 47.3s	17.8	01h 57m 56.84s,+65d 43m 45.5s	17.5	Empty position 2
2020/4/25 18:59	01h 57m 57.75s,+65d 43m 47.5s	18.2	01h 57m 57.71s,+65d 43m 46.0s	18.1	Empty position 2
2020/4/24 19:47	01h 57m 56.79s,+65d 43m 49.6s	18.7	01h 57m 56.48s,+65d 43m 49.3s	17.9	Empty position 2
2020/5/14 20:22	01h 57m 57.13s,+65d 43m 52.4s	17.3	01h 57m 56.86s,+65d 43m 52.6s	17.7	Empty position 2
2020/4/24 19:44	01h 57m 56.79s,+65d 43m 46.4s	18.1	01h 57m 57.11s,+65d 43m 45.1s	17.8	Empty position 2
2020/4/25 20:30	01h 57m 57.64s,+65d 43m 49.6s	18.4	01h 57m 57.25s,+65d 43m 49.6s	18.1	Empty position 2
2020/5/17 21:38	01h 57m 57.68s,+65d 43m 52.0s	17.5	01h 57m 57.29s,+65d 43m 52.4s	17	Empty position 2
2020/5/20 0:15	01h 57m 57.63s,+65d 43m 47.5s	17.5	01h 57m 57.86s,+65d 43m 50.0s	17.9	Empty position 2
2020/4/26 18:52	01h 57m 57.30s,+65d 43m 45.9s	18.2	01h 57m 56.88s,+65d 43m 45.4s	18.4	Empty position 2
2020/4/25 19:19	01h 57m 57.85s,+65d 43m 48.5s	18.2	01h 57m 58.02s,+65d 43m 49.2s	17.8	Empty position 2
2020/5/19 21:28	01h 57m 57.13s,+65d 43m 51.2s	18.3	01h 57m 56.98s,+65d 43m 52.4s	18.6	Empty position 2
2020/4/24 17:57	01h 57m 56.97s,+65d 43m 50.3s	18.6	01h 57m 56.73s,+65d 43m 49.3s	18.4	Empty position 2
2020/4/25 19:39	01h 57m 57.34s,+65d 43m 50.6s	16.4	01h 57m 57.54s,+65d 43m 52.2s	17.7	Empty position 2
2020/5/14 23:00	01h 57m 57.32s,+65d 43m 52.7s	18.2	01h 57m 57.11s,+65d 43m 51.2s	17.5	Empty position 2
2020/5/15 21:35	01h 57m 57.43s,+65d 43m 51.9s	18.3	01h 57m 57.24s,+65d 43m 51.8s	18.5	Empty position 2
2020/5/19 22:20	01h 57m 56.85s,+65d 43m 51.5s	17.3	01h 57m 57.16s,+65d 43m 50.0s	18.8	Empty position 2
2020/5/17 22:07	01h 57m 56.73s,+65d 43m 50.8s	18.1	01h 57m 57.10s,+65d 43m 52.5s	18	Empty position 2
2020/5/15 23:30	01h 57m 57.01s,+65d 43m 51.1s	18.3	01h 57m 56.93s,+65d 43m 51.9s	18.2	Empty position 2
2020/5/19 21:47	01h 57m 57.17s,+65d 43m 53.5s	18.7	01h 57m 57.35s,+65d 43m 54.1s	17.9	Empty position 2
2020/4/25 19:50	01h 57m 56.98s,+65d 43m 52.8s	17.7	01h 57m 57.01s,+65d 43m 52.7s	17.3	Empty position 2
2020/5/14 21:54	01h 57m 57.40s,+65d 43m 48.5s	17.2	01h 57m 57.04s,+65d 43m 50.4s	17.1	Empty position 2
2020/5/14 19:29	01h 57m 57.38s,+65d 43m 46.0s	17.1	01h 57m 57.84s,+65d 43m 46.8s	17.7	Empty position 2
2020/4/25 18:08	01h 57m 56.80s,+65d 43m 49.5s	18.5	01h 57m 57.02s,+65d 43m 49.2s	18.5	Empty position 2

2020/5/19 22:40	01h 57m 56.97s,+65d 43m 50.8s	18.7	01h 57m 57.29s,+65d 43m 52.3s	18.3	Empty position 2
2020/5/15 19:51	01h 57m 56.86s,+65d 43m 48.3s	17.5	01h 57m 56.64s,+65d 43m 45.7s	16.8	Empty position 2
2020/5/15 19:42	01h 57m 56.92s,+65d 43m 53.1s	17.7	01h 57m 56.72s,+65d 43m 52.5s	18.3	Empty position 2
2020/4/26 20:40	01h 57m 57.04s,+65d 43m 49.4s	18.5	01h 57m 57.37s,+65d 43m 47.5s	18.3	Empty position 2
2020/5/15 19:47	01h 57m 57.53s,+65d 43m 51.8s	17.5	01h 57m 57.37s,+65d 43m 49.2s	17.6	Empty position 2
2020/5/17 22:04	01h 57m 56.78s,+65d 43m 51.7s	16.9	01h 57m 56.75s,+65d 43m 48.9s	17.4	Empty position 2
2020/5/19 21:04	01h 57m 57.78s,+65d 43m 50.5s	18.4	01h 57m 57.57s,+65d 43m 48.5s	18.1	Empty position 2
2020/5/15 19:36	01h 57m 57.84s,+65d 43m 49.5s	17.9	01h 57m 57.83s,+65d 43m 51.1s	18	Empty position 2
2020/5/15 22:09	01h 57m 57.58s,+65d 43m 47.2s	18.1	01h 57m 57.40s,+65d 43m 45.9s	18.3	Empty position 2
2020/4/25 20:14	01h 57m 57.70s,+65d 43m 52.0s	17.2	01h 57m 57.28s,+65d 43m 51.6s	17.1	Empty position 2
2020/5/20 0:23	01h 57m 57.28s,+65d 43m 49.5s	18	01h 57m 57.36s,+65d 43m 48.6s	18	Empty position 2
2020/5/14 22:48	01h 57m 57.40s,+65d 43m 49.1s	18.2	01h 57m 57.34s,+65d 43m 46.4s	18	Empty position 2
2020/5/14 20:33	01h 57m 56.55s,+65d 43m 48.6s	17.2	01h 57m 56.71s,+65d 43m 49.7s	16.6	Empty position 2
2020/5/19 22:31	01h 57m 56.60s,+65d 43m 47.8s	18.7	01h 57m 56.85s,+65d 43m 48.1s	18.6	Empty position 2
2020/4/6 21:31	01h 57m 57.50s,+65d 43m 50.6s	18.9	01h 57m 57.89s,+65d 43m 49.5s	18.7	Empty position 2
2020/4/25 19:45	01h 57m 56.71s,+65d 43m 51.2s	17.7	01h 57m 56.85s,+65d 43m 50.4s	18	Empty position 2
2020/5/17 19:12	01h 57m 56.95s,+65d 43m 51.2s	18.2	01h 57m 56.96s,+65d 43m 49.8s	18.3	Empty position 2
2020/4/25 17:16	01h 57m 57.11s,+65d 43m 47.7s	16.5	01h 57m 57.44s,+65d 43m 48.6s	17.6	Empty position 2
2020/5/17 18:59	01h 57m 57.48s,+65d 43m 45.8s	18.4	01h 57m 57.56s,+65d 43m 47.3s	18.5	Empty position 2
2020/4/25 17:50	01h 57m 57.35s,+65d 43m 50.8s	18.5	01h 57m 57.47s,+65d 43m 50.8s	18.6	Empty position 2
2020/4/26 18:54	01h 57m 57.67s,+65d 43m 46.2s	18.4	01h 57m 57.70s,+65d 43m 46.6s	17.7	Empty position 2
2020/4/26 18:59	01h 57m 57.36s,+65d 43m 48.5s	18	01h 57m 57.64s,+65d 43m 47.4s	18.4	Empty position 2
2020/5/19 22:58	01h 57m 57.70s,+65d 43m 50.5s	18.5	01h 57m 58.01s,+65d 43m 48.8s	18.4	Empty position 2
2020/4/25 17:43	01h 57m 57.20s,+65d 43m 52.6s	17.8	01h 57m 57.13s,+65d 43m 51.9s	18.6	Empty position 2
2020/4/26 19:19	01h 57m 57.19s,+65d 43m 45.6s	18.3	01h 57m 57.39s,+65d 43m 47.5s	18.4	Empty position 2
2020/5/17 18:26	01h 57m 57.94s,+65d 43m 48.4s	17.7	01h 57m 57.84s,+65d 43m 46.8s	17.7	Empty position 2
2020/5/17 18:43	01h 57m 56.90s,+65d 43m 50.3s	17.9	01h 57m 56.76s,+65d 43m 50.3s	17.9	Empty position 2
2020/5/14 19:55	01h 57m 57.06s,+65d 43m 51.9s	17.6	01h 57m 57.23s,+65d 43m 51.9s	17.9	Empty position 2
2020/5/17 18:00	01h 57m 56.46s,+65d 43m 51.0s	18	01h 57m 56.60s,+65d 43m 52.1s	18	Empty position 2
2020/5/14 17:54	01h 57m 56.80s,+65d 43m 48.1s	17.8	01h 57m 56.74s,+65d 43m 49.5s	16.4	Empty position 2
2020/4/25 19:52	01h 57m 56.85s,+65d 43m 48.2s	17.8	01h 57m 56.95s,+65d 43m 48.1s	18.4	Empty position 2
2020/5/14 22:11	01h 57m 57.50s,+65d 43m 46.8s	17.8	01h 57m 57.47s,+65d 43m 45.3s	17.7	Empty position 2
2020/5/17 18:14	01h 57m 57.77s,+65d 43m 48.6s	18	01h 57m 57.58s,+65d 43m 47.5s	17.5	Empty position 2
2020/5/14 21:22	01h 57m 57.26s,+65d 43m 54.2s	16.8	01h 57m 57.62s,+65d 43m 53.2s	16.6	Empty position 2

2020/5/15 19:57	01h 57m 57.89s,+65d 43m 47.2s	18	01h 57m 57.63s,+65d 43m 48.2s	18.5	Empty position 2
2020/5/17 18:03	01h 57m 57.19s,+65d 43m 48.4s	17.4	01h 57m 57.26s,+65d 43m 49.3s	18	Empty position 2
2020/5/19 21:35	01h 57m 56.98s,+65d 43m 48.7s	18.3	01h 57m 56.96s,+65d 43m 51.6s	18.3	Empty position 2
2020/4/25 17:37	01h 57m 57.06s,+65d 43m 49.1s	17.8	01h 57m 57.20s,+65d 43m 47.2s	17.6	Empty position 2
2020/4/26 19:07	01h 57m 56.84s,+65d 43m 49.3s	18.3	01h 57m 56.58s,+65d 43m 49.7s	18.6	Empty position 2
2020/5/14 20:17	01h 57m 57.49s,+65d 43m 50.2s	17.5	01h 57m 57.69s,+65d 43m 52.5s	17.5	Empty position 2
2020/4/24 18:14	01h 57m 56.80s,+65d 43m 47.7s	18.7	01h 57m 57.03s,+65d 43m 47.4s	18	Empty position 2
2020/4/24 20:40	01h 57m 57.29s,+65d 43m 47.8s	18.6	01h 57m 57.32s,+65d 43m 50.0s	18.7	Empty position 2
2020/4/24 20:16	01h 57m 57.88s,+65d 43m 47.7s	17.4	01h 57m 57.93s,+65d 43m 49.1s	18.6	Empty position 2
2020/5/17 18:46	01h 57m 56.96s,+65d 43m 48.5s	18.3	01h 57m 56.83s,+65d 43m 47.6s	18.1	Empty position 2
2020/5/17 18:09	01h 57m 56.53s,+65d 43m 50.7s	17.8	01h 57m 56.78s,+65d 43m 49.9s	18.1	Empty position 2
2020/5/15 21:35	01h 57m 57.26s,+65d 43m 45.4s	18.2	01h 57m 57.32s,+65d 43m 44.9s	17.8	Empty position 2
2020/5/17 22:15	01h 57m 57.74s,+65d 43m 52.8s	17.9	01h 57m 57.62s,+65d 43m 51.3s	18.4	Empty position 2
2020/4/26 19:42	01h 57m 57.03s,+65d 43m 46.8s	18.4	01h 57m 57.00s,+65d 43m 45.7s	17.8	Empty position 2
2020/4/25 17:37	01h 57m 56.70s,+65d 43m 50.9s	18.3	01h 57m 56.97s,+65d 43m 53.2s	18.3	Empty position 2
2020/5/19 21:11	01h 57m 57.78s,+65d 43m 47.6s	18.1	01h 57m 57.69s,+65d 43m 49.4s	18.3	Empty position 2

Table S2. The photometry of the galactic star formation region from Gemini fit around FRB180916.J0158+65.

Radius, arcsec	mag	mag/sq. arcsec
0.32	26.50	25.30
0.48	26.23	25.91
0.65	25.55	25.85
0.81	25.28	26.06
0.97	25.04	26.22
1.13	24.62	26.13
1.30	24.24	26.05
1.46	23.87	25.93
1.62	23.57	25.86
1.78	23.32	25.82
1.94	23.09	25.77
2.11	23.05	25.91
2.27	22.97	25.99
2.43	22.77	25.94
2.59	22.80	26.11
2.75	22.77	26.21
2.92	22.61	26.18
3.08	22.39	26.07
3.24	22.30	26.10

Table S3. Bright events SGR/FRB200428.J1935+2154 simultaneously observed by telescopes of the MASTER Global Network in April 2020. Fermi/GBM observations are from Lin et al.2020 [100]. HXMT Insight data are from Li et al. 2020 [10]. Fast observation data were taken from Zhang et al.2020 [90]. m_{up} – upper limit on optical magnitude; F_{up} – upper limit on optical fluence, in units of 10^{-9} erg/cm²; Range – range of X-ray or radio observations, in units of keV and MHz correspondingly; X-ray – fluence of x-ray flares, in units of 10^{-7} erg/cm²; Radio – fluence of a radio burst, in units of 10^{-19} erg/cm².

MASTER optical observations simultaneously with X-ray flares							
Date, UTC	exposition	MASTER site	m_{up} Mlimit	F_{up} fluence	Detector	Range keV	X-ray Fluence, 10^{-7}
2020-04-27 21:57:38	180	Tavrida	>17.8	<1.73	Fermi/GBM	8-200	14.88±0.23
2020-04-27 23:23:47	180	Tavrida	>19.1	<0.52	Fermi/GBM	8-200	1.75±0.11
2020-04-28 00:19:27	180	SAAO	>14.2	<47.6	Fermi/GBM	8-200	1.11±0.06
2020-04-28 00:22:47	180	SAAO	>16.3	<6.89	Fermi/GBM	8-200	0.69±0.06
2020-04-28 00:23:47	180	Tavrida	>19.5	<0.36	Fermi/GBM	8-200	34.74±0.26
2020-04-28 00:35:44	180	SAAO	>17.6	<2.08	Fermi/GBM	8-200	0.63±0.05
2020-04-28 00:39:03	180	SAAO	>17.9	<1.58	Fermi/GBM	8-200	20.33±0.26
2020-04-28 00:41:33	180	SAAO	>18.1	<1.31	Fermi/GBM	8-200	6.52±0.15
2020-04-28 00:42:23	180	SAAO	>18.0	<1.44	Fermi/GBM	8-200	70.8±0.5
2020-04-28 00:44:53	180	SAAO	>18.0	<1.44	Fermi/GBM	8-200	61.2±0.5
2020-04-28 00:45:43	180	SAAO	>17.9	<1.58	Fermi/GBM	8-200	1.50±0.09
2020-04-28 00:48:13	180	SAAO	>18.2	<1.20	Fermi/GBM	8-200	25.6±0.4
2020-04-28 00:51:32	180	SAAO	>18.4	<1.01	Fermi/GBM	8-200	2.38±0.11
2020-04-28 00:52:23	180	SAAO	>18.4	<1.01	Fermi/GBM	8-200	5.89±0.13
2020-04-28 01:03:04	180	Tavrida	>18.0	<0.91	Fermi/GBM	8-200	0.77±0.05
2020-04-28 03:46:58	180	SAAO	>19.0	<0.36	Fermi/GBM	8-200	2.00±0.07
2020-04-28 04:08:46	180	IAC	>16.0	<5.73	Fermi/GBM	8-200	1.89±0.06
2020-04-29 20:45:46	180	Kislovodsk	>18.7	<0.76	Fermi/GBM	8-200	41.6±0.3
2020-04-30 17:12:47	10	Tunka	>16.8	<0.24	HXMT Insight	1-200	0.32
MASTER optical observations simultaneously with radio burst							
Date, UTC	exposition	MASTER site	m_{up} M_limit	F_{up} fluence	Detector	Range MHz	Radio Fluence, 10^{-19}
2020-04-30 21:42:15	180	Tavrida	>16.8	<4.35	FAST	790-1710	7.5

Table S4. Results of aLIGO, LIGO/Virgo O1, O2, O3 alerts and optical observations coverage at MASTER-Amur, -Tunka (Tun), -Kislovodsk(Kis), -Tavrida (Tav), -IAC, -SAAO(SA), -OFA robotic telescopes. The time is in UT.

	Name	Status	Trigger time, UT	Notice time, UT	Time of the first frame, UT	MASTER obs.	Coverage deg ²	%
O1	GW150914/G184098	BBH	2015-09-14 09:50:45.45	2015-09-16 05:39:43.6	2015-09-15 03:24:22	SA, Kis, IAC, Tun	5200	59.0
	GW151012/G197392	BBH	2015-10-12 09:54:43.43	2016-04-25 15:42:45	2015-10-12 18:40:29	Tun, IAC, SA, Amur, Kis	2199	38.8
	G194575	NFI	2015-10-22 13:33:19.19	2015-10-22 13:35:44	2015-10-22 13:34:56	Amur, Tun, IAC, Kis, SA	21514	46.1
	GW151226/G211117	BBH	2015-12-26 03:38:53.53	2015-12-26 03:40:00.	2015-12-26 04:38:50	IAC, SA, Amur, Tun, Kis	2915	82.4
O2	GW170104/G268556	BBH	2017-01-04 10:11:59.59	2017-01-06 21:21:05.05	2017-01-04 15:46:07	Kis, OFA, SA,Tun,Amur,IAC	3421	79.8
	G270580	Rej	2017-01-20 12:30:59.59	2017-02-20 15:50:19.19	2017-01-20 12:31:12	Amur, Tun, SA, OFA, Kis, IAC	6292	72.7
	G274296	NFI	2017-02-17 06:05:53.53	2017-02-17 23:05:40.40	2017-02-17 08:07:14	OFA,Tun,IAC,SA	4260	74.7
	G275404	NFI	2017-02-25 18:30:21.21	2017-03-08 22:01:02.02	2017-02-25 18:31:28	SA, OFA, IAC, Amur, Tun	15640	58.3
	G275697	NFI	2017-02-27 18:57:31.31	2017-03-07 23:00:38.38	2017-02-27 19:00:02	SA, Tun,OFA,	4626	65.4
	G277583	NFI	2017-03-13 22:40:09.09	2017-03-14 00:17:33.33	2017-03-13 23:13:0	SA, IAC, Tun, Amur, Tav	12832	54.5
	G284239	NFI	2017-05-02 22:26:07.07	2017-05-03 14:43:20.20	2017-05-02 22:31:17	Kis, SA, IAC,Tun, Amur,OFA	4630	55.2
	GW170608/G288732	BBH	2017-06-08 02:01:16.16	2017-06-08 17:29:10.10	2017-06-08 18:05:35	Kis, Tav, OFA, IAC, SA	1142	35.4
	GW170729	BBH	2017-07-29 18:56:29.29	2019-03-14 10:00:57.57	2017-07-30 00:23:01	OFA, IAC, Kis	668	21.0
	GW170809/G296853	BBH	2017-08-09 08:28:21.21	2017-08-09 09:17:33.33	2017-08-09 10:00:02	SA, OFA, IAC, Kis	1781	75.2
	GW170814/G297595	BBH	2017-08-14 10:30:43.43	2017-08-16 13:55:32.32	2017-08-14 22:10:06	SA, IAC, Tun, Kis, OFA, Tav, Amur	642	77.5
	GW170817/G298048	BNS	2017-08-17 12:41:04.04	2017-08-30 12:21:09.09	2017-08-17 17:06:47	SA, OFA, IAC, Kis, Tun, Amur	89	58.1

O3	GW170818	BBH	2017-08-18 02:25:09.09	2019-03-14 10:04:56.56	2017-08-18 05:42:31	IAC,Kis,OAFa,SA	668	41.0
	G298389	NFI	2017-08-19 15:50:46.46	2017-08-19 19:06:40.40	2017-08-20 10:16:10	OAFa, SA	63	1.7
	GW170823/G298936	BBH	2017-08-23 13:13:58.58	2017-08-29 17:21:36.36	2017-08-23 16:03:27	Amur,Tun,Tav,IAC, Kis,SA,OAFa	1910	59.4
	G299232	NFI	2017-08-25 13:13:37.37	2017-08-29 16:08:46.46	2017-08-25 17:25:32	Amur,Tun, Tav,SA, Kis, IAC, OAFa	4124	82.2
	S190408an	BBH	2019-04-08 18:18:02	2019-04-08 22:06:44	2019-04-08 18:21:24	Amur, Tunka, Kislovodsk, Tavrida, SAAO, IAC, OAFa	1283.7	81.9
	S190412m	BBH	2019-04-12 05:30:44	2019-04-12 06:40:50	2019-04-12 06:34:43		506.6	85.3
	S190421ar	BBh	2019-04-21 21:38:56	2019-04-22 17:06:12	2019-04-21 21:40:22		2557.1	55.1
	S190425z	BNS	2019-04-25 08:18:05	2019-04-25 09:06:43	2019-04-25 09:10:18		6662.9	52.0
	S190426c	NSBH	2019-04-26 15:21:55	2019-04-26 16:03:29	2019-04-26 16:14:33		1780.4	71.0
	S190503bf	BBH	2019-05-03 18:54:04	2019-05-04 10:03:07	2019-05-03 18:54:49		634.7	64.5
	S190510g	BNS	2019-05-10 02:59:39	2019-05-10 05:04:00	2019-05-10 03:06:00		5481.7	87.3
	S190512at	BBH	2019-05-12 18:07:14	2019-05-12 19:05:29	2019-05-12 18:09:38		847.5	95.3
	S190513bm	BBH	2019-05-13 20:54:28	2019-05-13 21:28:46	2019-05-13 20:55:53		1299.9	67.2
	S190517h	BBH	2019-05-17 05:51:01	2019-05-17 07:07:47	2019-05-17 06:07:26		1072.0	52.0
	S190519bj	BBH	2019-05-19 15:35:44	2019-05-19 17:05:40	2019-05-19 15:51:06		954.2	79.5
	S190521g	BBH	2019-05-21 03:02:29	2019-05-21 03:11:37	2019-05-21 03:07:04		592.9	65.4
	S190521r	BBH	2019-05-21 07:43:59	2019-05-21 07:52:58	2019-05-21 08:02:45		687.3	82.4
	S190602aq	BBH	2019-06-02 17:59:27	2019-06-02 18:10:01	2019-06-02 18:15:28		364.5	20.8
	S190630ag	BBH	2019-06-30 18:52:05	2019-06-30 18:57:13	2019-06-30 18:58:32		3359.7	37.6
	S190701ah	BBH	2019-07-01 20:33:06	2019-07-01 20:45:10	2019-07-01 20:53:01		188.5	96.9
	S190706ai	BBH	2019-07-06 22:26:41	2019-07-06 22:54:24	2019-07-06 22:45:16		1099.7	69.7
	S190707q	BBH	2019-07-07 09:33:26	2019-07-07 10:13:54	2019-07-07 16:36:51		1601.0	66.7
	S190718y	Terr	2019-07-18 14:35:12	2019-07-18 15:41:44	2019-07-18 15:06:02		4003.5	74.7
	S190720a	BBH	2019-07-20 00:08:36	2019-07-20 00:12:12	2019-07-20 00:10:24		1667.6	67.3
	S190727h	BBH	2019-07-27 06:03:33	2019-07-27 06:12:52	2019-07-27 06:13:01		736.8	94.7
	S190728q	BBH	2019-07-28 06:45:10	2019-07-28 07:00:14	2019-07-28 07:00:29		810.0	96.4
	S190814bv	NSBH	2019-08-14 21:10:39	2019-08-14 21:33:14	2019-08-14 21:32:46		175.7	97.7

S190828j	BBH	2019-08-28 06:34:05	2019-08-28 06:51:03	2019-08-28 06:36:40	630.7	58.6
S190828l	BBH	2019-08-28 06:55:09	2019-08-28 07:18:45	2019-08-28 07:23:02	632.5	40.7
S190901ap	BNS	2019-09-01 23:31:01	2019-09-01 23:37:55	2019-09-01 23:31:01	4075.6	40.2
S190910d	NSBH	2019-09-10 01:26:19	2019-09-10 01:33:30	2019-09-10 01:28:56	1051.2	33.0
S190910h	BNS	2019-09-10 08:29:58	2019-09-10 08:37:20	2019-09-10 09:44:54	5493.4	16.2
S190915ak	BBH	2019-09-15 23:57:02	2019-09-16 00:04:50	2019-09-15 23:59:13	637.1	87.5
S190923y	NSBH	2019-09-23 12:55:59	2019-09-23 13:03:03	2019-09-23 13:09:17	2016.7	69.9
S190924h	BBH	2019-09-24 02:18:46	2019-09-24 02:26:29	2019-09-24 02:23:45	515.8	81.7
S190930s	BBH	2019-09-30 13:35:41	2019-09-30 13:43:50	2019-09-30 13:36:35	1775.4	55.2
S190930t	NSBH	2019-09-30 14:34:07	2019-09-30 14:41:35	2019-09-30 4:36:33	9249.9	35.5
S191105e	BBH	2019-11-05 14:35:21	2019-11-06 18:03:18	2019-11-05 14:36:16	1716.8	65.2
S191109d	BBH	2019-11-09 01:07:17	2019-11-09 01:17:30	2019-11-09 01:31:52	1564.3	39.5
S191129u	BBH	2019-11-29 13:40:29	2019-11-29 14:23:56	2019-11-29 14:12:54	1560.0	66.3
S191204r	BBH	2019-12-04 17:15:26	2019-12-04 17:59:33	2019-12-04 18:05:14	741.7	97.4