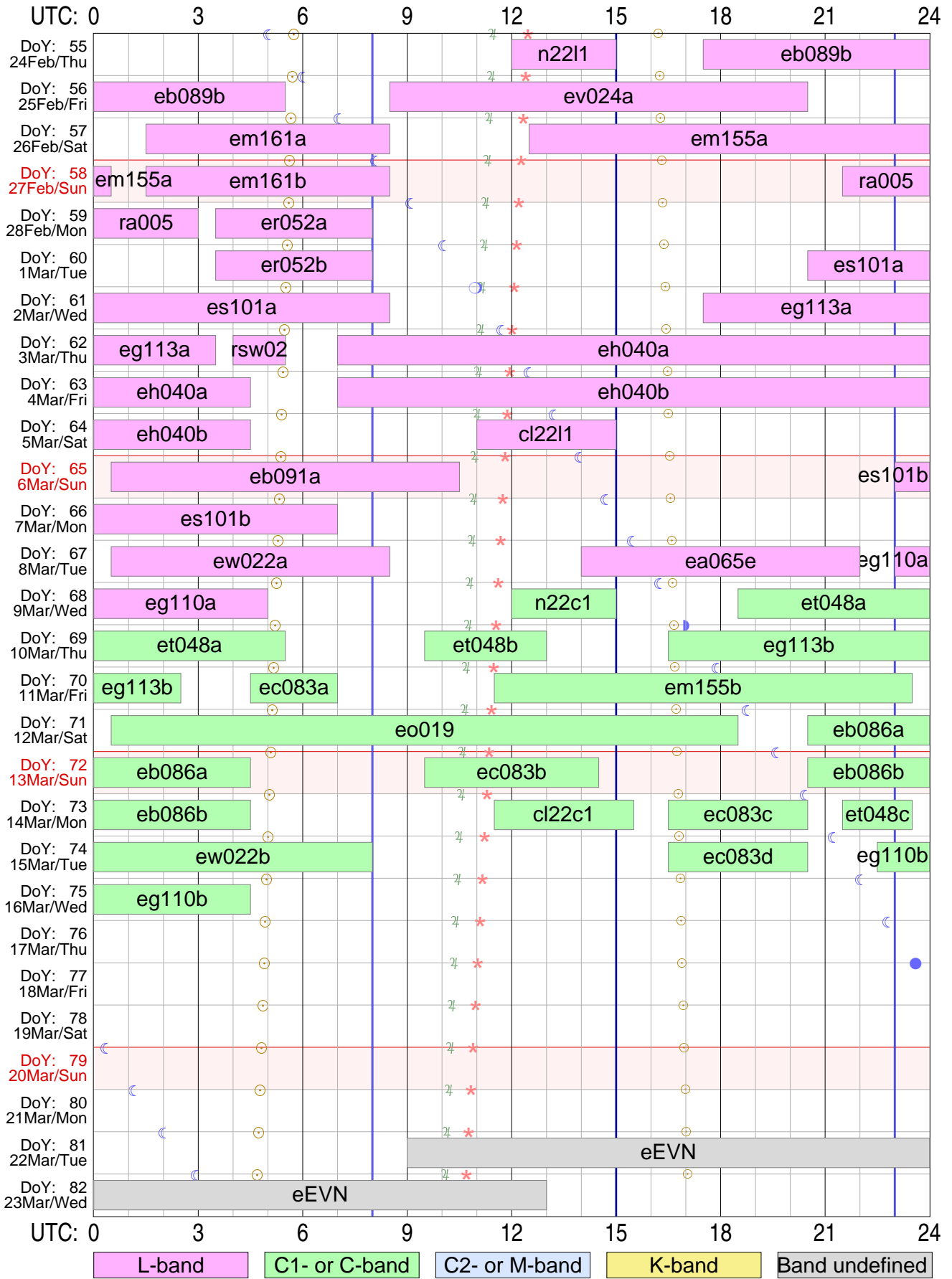


Tr VLBI plan for Feb/Mar 2022



Version: 2022.02.23

Sky events at Tr: ☉ Sunrise & sunset ☾ Moon Transit ♃ Jupiter Transit ★ Aries Transit (0h ST)

Vertical lines in blue mark operator shift times at Tr

Total observing time: 315.0 hours in 37 experiments scheduled

Strona zostawiona celowo pusta

EVN Experiments

Feb 2022

Uytownik ftp dla logw i schedulw RA: grt

ftp://webinet.asc.rssi.ru

Przykad dla log files: cd GRT_log_files/2014_09/2014_09_01_raks08ak

Przykad dla sched files: cd schedule/grtsched/RAKS/rk08ak

Year = 2022, 2nd line is:	Year	Date	UTstart	UTstop	Exper.	xxComment
Nr	D	M	<=Dur	Exper.	name	Comment
1	24.02	3.0	n2211			L
2	24.02	6.5	eb089b			L
3	25.02	12.0	ev024a			L
4	26.02	7.0	em161a			L
5	26.02	11.5	em155a			L
6	27.02	7.0	em161b			L
7	27.02	6.0	ej023a			L
8	27.02	2.5	ra005			L
9	28.02	4.5	er052a			L
10	28.02	6.0	ej023b			L
11	1.03	4.5	er052b			L
12	1.03	6.0	ej023c			L
13	1.03	3.5	es101a			L
14	2.03	6.0	ej023d			L
15	2.03	6.5	eg113a			L
16	3.03	1.5	rsw02			L
17	3.03	17.0	eh040a			L
18	4.03	17.0	eh040b			L
19	5.03	4.0	cl2211			L
20	6.03	10.0	eb091a			L
21	6.03	1.0	es101b			L
22	8.03	8.0	ew022a			L
23	8.03	8.0	ea065e			L
24	8.03	1.0	eg110a			L
25	9.03	3.0	n22c1			C
26	9.03	5.5	et048a			C
27	10.03	3.5	et048b			C
28	10.03	7.5	eg113b			C
29	11.03	2.5	ec083a			C
30	11.03	12.0	em155b			C
31	12.03	18.0	eo019			C
32	12.03	3.5	eb086a			C
33	13.03	5.0	ec083b			C
34	13.03	3.5	eb086b			C
35	14.03	4.0	cl22c1			C
36	14.03	4.0	ec083c			C
37	14.03	2.0	et048c			C
38	15.03	8.0	ew022b			C
39	15.03	4.0	ec083d			C

40 15.03 1.5 |eg110b
41 22.03 28.0 |eEVN

|C
|

Plik pdf tego dokumentu jest dost/epny w sieci pod adresem:

<http://paulo.astro.uni.torun.pl/~pw/VLBI/schedules/feb22.pdf>

n2211tr

NETWORK MONITORING EXPERIMENT

PI: *Gabor Orosz*

Address: JIVE

Schedule for TORUN (Code Tr)

Page 2

Network Monitoring Experiment

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are LO sum (band edge).

SYNC: Time correlator is expected to sync up.

```

-----
Start UT  Source          Start / Stop          Early  Disk  TPStart
Stop UT          LST    EL    AZ    HA  UP    ParA Dwell  GBytes  SYNC
-----
--- Thu 24 Feb 2022  Day 55 ---
Next scan frequencies: 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
Next BBC frequencies:  673.51  673.51  673.51  673.51  609.51  609.51  609.51  609.51
Next scan bandwidths:  32.00   32.00   32.00   32.00   32.00   32.00   32.00   32.00

12 00 00  J0237+2848  23 31 39  48.2 106.4 -3.1   -41.1    0     0   12 00 00
12 05 00  =0234+285  23 36 40  48.9 107.7 -3.0   -40.8   300    39   12 00 01

12 10 00  J0237+2848  23 41 40  49.7 109.0 -3.0   -40.4   293    39   12 10 00
12 20 00  =0234+285  23 51 42  51.1 111.6 -2.8   -39.6   600   116   12 10 01

12 25 00  J0237+2848  23 56 43  51.8 112.9 -2.7   -39.2   293   116   12 25 00
12 35 00  =0234+285  00 06 45  53.1 115.8 -2.5   -38.1   600   193   12 25 01

12 40 00  J0237+2848  00 11 45  53.8 117.2 -2.5   -37.6   293   193   12 40 00
12 50 00  =0234+285  00 21 47  55.1 120.2 -2.3   -36.3   600   271   12 40 01

12 55 00  J0237+2848  00 26 48  55.8 121.8 -2.2   -35.7   293   271   12 55 00
13 05 00  =0234+285  00 36 50  57.0 125.1 -2.0   -34.2   600   348   12 55 01

13 10 00  J0237+2848  00 41 50  57.6 126.7 -2.0   -33.3   293   348   13 10 00
13 20 00  =0234+285  00 51 52  58.8 130.3 -1.8   -31.6   600   425   13 10 01

13 25 00  J0237+2848  00 56 53  59.4 132.1 -1.7   -30.6   293   425   13 25 00
13 35 00  =0234+285  01 06 54  60.5 135.9 -1.5   -28.5   600   502   13 25 01

13 40 00  J0237+2848  01 11 55  61.0 137.9 -1.5   -27.4   292   502   13 40 00
13 50 00  =0234+285  01 21 57  62.0 142.0 -1.3   -25.0   600   580   13 40 01

13 55 00  J0237+2848  01 26 58  62.4 144.2 -1.2   -23.7   292   580   13 55 00
14 05 00  =0234+285  01 36 59  63.2 148.6 -1.0   -20.9   600   657   13 55 01

14 10 00  J0237+2848  01 42 00  63.6 150.9 -1.0   -19.5   292   657   14 10 00
14 15 00  =0234+285  01 47 01  64.0 153.3 -0.9   -18.0   300   696   14 10 01

Next scan frequencies: 1337.85 1337.85 1337.85 1337.85 1401.85 1401.85 1401.85 1401.85
Next BBC frequencies:  762.15  762.15  762.15  762.15  698.15  698.15  698.15  698.15

14 20 00  J0730+4049  01 52 02  34.1  65.7 -5.7   -46.3   109   696   14 20 00
14 24 00  =0727+409  01 56 03  34.7  66.3 -5.6   -46.6   240   727   14 20 01

14 25 00  J0730+4049  01 57 03  34.8  66.5 -5.6   -46.7    54   727   14 25 00
14 30 00  =0727+409  02 02 03  35.5  67.3 -5.5   -47.0   300   765   14 25 01

```

Schedule for TORUN (Code Tr)

Page 3

Network Monitoring Experiment

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu 24 Feb 2022	Day	55	---						
14 31 00	J0730+4049	02 03 04	35.7	67.5	-5.5		-47.1	54	765	14 31 00
14 32 00	=0727+409	02 04 04	35.8	67.6	-5.5		-47.2	60	773	14 31 01
14 33 00	J0727+4052	02 05 04	36.4	68.3	-5.4		-47.5	47	773	14 33 00
14 35 00	=0724+409	02 07 04	36.7	68.6	-5.4		-47.6	120	788	14 33 01
14 36 00	J0730+4049	02 08 04	36.4	68.3	-5.4		-47.4	47	788	14 36 00
14 37 00	=0727+409	02 09 05	36.5	68.4	-5.4		-47.5	60	796	14 36 01
14 38 00	J0727+4052	02 10 05	37.1	69.1	-5.3		-47.8	47	796	14 38 00
14 40 00	=0724+409	02 12 05	37.4	69.4	-5.3		-48.0	120	812	14 38 01
14 41 00	J0730+4049	02 13 05	37.1	69.1	-5.3		-47.8	47	812	14 41 00
14 42 00	=0727+409	02 14 05	37.2	69.2	-5.3		-47.9	60	819	14 41 01
14 43 00	J0727+4052	02 15 06	37.8	69.9	-5.2		-48.2	47	819	14 43 00
14 45 00	=0724+409	02 17 06	38.1	70.2	-5.2		-48.3	120	835	14 43 01
14 46 00	J0730+4049	02 18 06	37.8	69.9	-5.2		-48.1	47	835	14 46 00
14 47 00	=0727+409	02 19 06	37.9	70.0	-5.2		-48.2	60	842	14 46 01
14 48 00	J0727+4052	02 20 06	38.5	70.7	-5.1		-48.5	47	842	14 48 00
14 50 00	=0724+409	02 22 07	38.8	71.0	-5.1		-48.6	120	858	14 48 01
14 51 00	J0730+4049	02 23 07	38.5	70.7	-5.2		-48.4	47	858	14 51 00
14 52 00	=0727+409	02 24 07	38.6	70.8	-5.1		-48.5	60	866	14 51 01
14 53 00	J0727+4052	02 25 07	39.3	71.5	-5.1		-48.8	47	866	14 53 00
14 55 00	=0724+409	02 27 08	39.5	71.8	-5.0		-48.9	120	881	14 53 01
14 56 00	J0730+4049	02 28 08	39.2	71.5	-5.1		-48.8	47	881	14 56 00
14 57 00	=0727+409	02 29 08	39.3	71.6	-5.1		-48.8	60	889	14 56 01
14 58 00	J0727+4052	02 30 08	40.0	72.3	-5.0		-49.1	47	889	14 58 00
15 00 00	=0724+409	02 32 08	40.3	72.6	-4.9		-49.2	120	904	14 58 01

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

Setup group: 12	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 9 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 9

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

==== Setup file: sess122.H1024

Setup group: 31	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2100.00	2100.00	2100.00	2100.00	2100.00	2100.00	2100.00	2100.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 28 Setup file default. Used with PCAL = off
 LO sum= 1337.85 1337.85 1337.85 1337.85 1401.85 1401.85 1401.85 1401.85
 BBC fr= 762.15 762.15 762.15 762.15 698.15 698.15 698.15 698.15
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 28

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
0234+285	02 34 55.589593	* 02 37 52.405680	02 39 09.238752	0.11
* J0237+2848	28 35 11.40778	* 28 48 08.99003	28 53 52.27119	0.10
	rfc_2021d Petrov and Kovalev, in preparation 21528 observations			
0727+409	07 27 24.091632	* 07 30 51.346591	07 32 23.320556	0.15
* J0730+4049	40 56 10.73890	* 40 49 50.82638	40 47 07.55893	0.12
	rfc_2021d Petrov and Kovalev, in preparation 894 observations			
0724+409	07 24 05.305952	* 07 27 32.941920	07 29 05.068700	0.97
* J0727+4052	40 58 16.62792	* 40 52 10.14373	40 49 32.89930	0.90
	rfc_2021d Petrov and Kovalev, in preparation 35 observations			

eb089btr

EB089 SECOND EPOCH WX UMA ASTROMETRY
PI: *Paul Boven*

Address: JIVE

Schedule for TORUN (Code Tr) Page 2
EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Thu 24 Feb 2022 Day 55 ---										
Next scan frequencies: 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49										
Next BBC frequencies: 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51										
Next scan bandwidths: 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00										

17 30 00	WXUMA	05 02 33	32.8	59.8	-6.1		-45.6	0	0	17 30 00
17 32 00	---	05 04 33	33.1	60.1	-6.0		-45.8	120	15	17 30 01
17 32 20	J1108+4330	05 04 53	32.7	59.7	-6.1		-45.5	8	15	17 32 20
17 34 00	=1105+437	05 06 34	32.9	59.9	-6.1		-45.7	100	28	17 32 21
17 34 00	J1058+4304	05 06 34	34.0	61.9	-5.9		-46.4	-18	28	No stop
17 36 00	=1055+433	05 08 34	34.2	62.2	-5.8		-46.5	102	44	17 34 01
17 36 00	WXUMA	05 08 34	33.6	60.7	-6.0		-46.1	-16	44	No stop
17 38 00	---	05 10 34	33.8	61.0	-5.9		-46.3	104	59	17 36 01
17 38 00	J1108+4330	05 10 34	33.4	60.6	-6.0		-46.0	-12	59	No stop
17 40 00	=1105+437	05 12 35	33.7	60.9	-6.0		-46.2	108	75	17 38 01
17 40 00	J1110+4403	05 12 35	33.8	60.0	-6.0		-46.3	-13	75	No stop
17 42 00	=1107+443	05 14 35	34.0	60.3	-6.0		-46.4	107	90	17 40 01
17 42 00	WXUMA	05 14 35	34.4	61.6	-5.9		-46.6	-15	90	No stop
17 44 00	---	05 16 35	34.6	61.9	-5.8		-46.8	105	106	17 42 01
17 44 20	J1108+4330	05 16 55	34.3	61.5	-5.9		-46.6	8	106	17 44 20
17 46 00	=1105+437	05 18 36	34.5	61.8	-5.9		-46.7	100	119	17 44 21
17 46 00	J1058+4304	05 18 36	35.6	63.7	-5.7		-47.4	-18	119	No stop
17 48 00	=1055+433	05 20 36	35.9	64.0	-5.6		-47.5	102	134	17 46 01
17 48 00	WXUMA	05 20 36	35.2	62.5	-5.8		-47.2	-16	134	No stop
17 50 00	---	05 22 36	35.4	62.8	-5.7		-47.3	104	149	17 48 01
17 50 00	J1108+4330	05 22 36	35.0	62.4	-5.8		-47.1	-12	149	No stop
17 52 00	=1105+437	05 24 37	35.3	62.7	-5.8		-47.2	108	165	17 50 01
17 52 00	J1110+4403	05 24 37	35.3	61.8	-5.8		-47.3	-13	165	No stop
17 54 00	=1107+443	05 26 37	35.6	62.1	-5.8		-47.5	107	180	17 52 01
17 54 00	WXUMA	05 26 37	36.0	63.4	-5.7		-47.7	-15	180	No stop
17 56 00	---	05 28 37	36.2	63.7	-5.6		-47.8	105	196	17 54 01

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu 24 Feb 2022	Day	55	---						
17 56 20	J1108+4330	05 28 57	35.9	63.3	-5.7		-47.6	8	196	17 56 20
17 58 00	=1105+437	05 30 38	36.1	63.6	-5.7		-47.7	100	209	17 56 21
17 58 00	J1058+4304	05 30 38	37.2	65.6	-5.5		-48.3	-18	209	No stop
18 00 00	=1055+433	05 32 38	37.5	65.9	-5.4		-48.5	102	224	17 58 01
18 00 00	WXUMA	05 32 38	36.8	64.3	-5.6		-48.2	-16	224	No stop
18 02 00	---	05 34 38	37.1	64.6	-5.5		-48.3	104	240	18 00 01
18 02 00	J1108+4330	05 34 38	36.6	64.2	-5.6		-48.1	-12	240	No stop
18 04 00	=1105+437	05 36 39	36.9	64.5	-5.6		-48.2	108	255	18 02 01
18 04 00	J1110+4403	05 36 39	37.0	63.6	-5.6		-48.3	-13	255	No stop
18 06 00	=1107+443	05 38 39	37.2	63.9	-5.6		-48.5	107	271	18 04 01
18 06 00	WXUMA	05 38 39	37.6	65.2	-5.5		-48.6	-15	271	No stop
18 08 00	---	05 40 39	37.9	65.5	-5.4		-48.8	105	286	18 06 01
18 08 20	J1108+4330	05 40 59	37.5	65.2	-5.5		-48.6	8	286	18 08 20
18 10 00	=1105+437	05 42 40	37.7	65.4	-5.4		-48.7	100	299	18 08 21
18 10 00	J1058+4304	05 42 40	38.9	67.4	-5.3		-49.2	-18	299	No stop
18 12 00	=1055+433	05 44 40	39.1	67.7	-5.2		-49.4	102	314	18 10 01
18 12 00	WXUMA	05 44 40	38.4	66.2	-5.4		-49.1	-16	314	No stop
18 14 00	---	05 46 40	38.7	66.5	-5.3		-49.3	104	330	18 12 01
18 14 00	J1108+4330	05 46 40	38.3	66.0	-5.4		-49.0	-12	330	No stop
18 16 00	=1105+437	05 48 41	38.6	66.3	-5.3		-49.2	108	345	18 14 01
18 16 00	J1110+4403	05 48 41	38.6	65.4	-5.4		-49.3	-13	345	No stop
18 18 00	=1107+443	05 50 41	38.9	65.7	-5.4		-49.5	107	361	18 16 01
18 18 00	WXUMA	05 50 41	39.3	67.1	-5.3		-49.6	-15	361	No stop
18 20 00	---	05 52 41	39.5	67.4	-5.2		-49.7	105	376	18 18 01
18 20 20	J1108+4330	05 53 01	39.2	67.0	-5.3		-49.5	8	376	18 20 20
18 22 00	=1105+437	05 54 42	39.4	67.2	-5.2		-49.6	100	389	18 20 21
18 22 00	J1058+4304	05 54 42	40.5	69.3	-5.1		-50.1	-18	389	No stop
18 24 00	=1055+433	05 56 42	40.8	69.6	-5.0		-50.3	102	404	18 22 01
18 24 00	WXUMA	05 56 42	40.1	68.0	-5.2		-50.0	-16	404	No stop
18 26 00	---	05 58 42	40.4	68.3	-5.1		-50.2	104	420	18 24 01
18 26 00	J1108+4330	05 58 42	39.9	67.8	-5.2		-49.9	-12	420	No stop
18 28 00	=1105+437	06 00 43	40.2	68.2	-5.1		-50.1	108	435	18 26 01

Schedule for TORUN (Code Tr)

Page 4

EB089 second epoch WX UMA Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	24 Feb 2022	Day	55	---					
18 28 00	J1110+4403	06 00 43	40.2	67.2	-5.2		-50.3	-13	435	No stop
18 30 00	=1107+443	06 02 43	40.5	67.5	-5.2		-50.4	107	451	18 28 01
18 30 00	WXUMA	06 02 43	40.9	68.9	-5.1		-50.5	-16	451	No stop
18 32 00	---	06 04 43	41.2	69.2	-5.0		-50.6	104	466	18 30 01
18 32 20	J1108+4330	06 05 03	40.8	68.8	-5.1		-50.4	8	466	18 32 20
18 34 00	=1105+437	06 06 44	41.1	69.1	-5.0		-50.5	100	479	18 32 21
18 34 00	J1058+4304	06 06 44	42.2	71.1	-4.9		-50.9	-18	479	No stop
18 36 00	=1055+433	06 08 44	42.5	71.4	-4.8		-51.1	102	495	18 34 01
18 36 00	WXUMA	06 08 44	41.8	69.8	-5.0		-50.9	-16	495	No stop
18 38 00	---	06 10 44	42.1	70.1	-4.9		-51.0	104	510	18 36 01
18 38 00	J1108+4330	06 10 44	41.6	69.7	-5.0		-50.8	-12	510	No stop
18 40 00	=1105+437	06 12 45	41.9	70.0	-4.9		-50.9	108	526	18 38 01
18 40 00	J1110+4403	06 12 45	41.9	69.1	-5.0		-51.2	-14	526	No stop
18 42 00	=1107+443	06 14 45	42.2	69.4	-5.0		-51.3	106	541	18 40 01
18 42 00	WXUMA	06 14 45	42.6	70.8	-4.9		-51.3	-16	541	No stop
18 44 00	---	06 16 45	42.9	71.1	-4.8		-51.4	104	556	18 42 01
18 44 20	J1108+4330	06 17 05	42.5	70.7	-4.9		-51.2	8	556	18 44 20
18 46 00	=1105+437	06 18 46	42.8	70.9	-4.8		-51.4	100	569	18 44 21
18 46 00	J1058+4304	06 18 46	44.0	73.0	-4.7		-51.7	-18	569	No stop
18 48 00	=1055+433	06 20 46	44.3	73.3	-4.6		-51.8	102	585	18 46 01
18 48 00	WXUMA	06 20 46	43.5	71.7	-4.8		-51.7	-16	585	No stop
18 50 00	---	06 22 46	43.8	72.0	-4.7		-51.8	104	600	18 48 01
18 50 00	J1108+4330	06 22 46	43.3	71.5	-4.8		-51.6	-12	600	No stop
18 52 00	=1105+437	06 24 47	43.6	71.9	-4.7		-51.7	108	616	18 50 01
18 52 00	J1110+4403	06 24 47	43.6	70.9	-4.8		-52.0	-14	616	No stop
18 54 00	=1107+443	06 26 47	43.9	71.2	-4.8		-52.1	106	631	18 52 01
18 54 00	WXUMA	06 26 47	44.3	72.6	-4.7		-52.1	-16	631	No stop
18 56 00	---	06 28 47	44.6	72.9	-4.6		-52.2	104	647	18 54 01
18 56 20	J1108+4330	06 29 07	44.2	72.5	-4.7		-52.0	7	647	18 56 20
18 58 00	=1105+437	06 30 48	44.5	72.8	-4.6		-52.1	100	660	18 56 21

Schedule for TORUN (Code Tr)

Page 5

EB089 second epoch WX UMA Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu 24 Feb 2022	Day	55	---						
18 58 00	J1058+4304	06 30 48	45.7	74.9	-4.5		-52.4	-18	660	No stop
19 00 00	=1055+433	06 32 48	46.0	75.2	-4.4		-52.5	102	675	18 58 01
19 00 00	WXUMA	06 32 48	45.2	73.6	-4.6		-52.4	-16	675	No stop
19 02 00	---	06 34 48	45.5	73.9	-4.5		-52.6	104	690	19 00 01
19 02 00	J1108+4330	06 34 48	45.1	73.4	-4.6		-52.4	-13	690	No stop
19 04 00	=1105+437	06 36 49	45.3	73.7	-4.5		-52.5	107	706	19 02 01
19 04 00	J1110+4403	06 36 49	45.3	72.8	-4.6		-52.8	-14	706	No stop
19 06 00	=1107+443	06 38 49	45.6	73.1	-4.6		-52.9	106	721	19 04 01
19 06 00	WXUMA	06 38 49	46.1	74.5	-4.5		-52.8	-16	721	No stop
19 08 00	---	06 40 49	46.4	74.8	-4.4		-52.9	104	737	19 06 01
19 08 20	J1108+4330	06 41 09	46.0	74.4	-4.5		-52.8	7	737	19 08 20
19 10 00	=1105+437	06 42 49	46.2	74.7	-4.4		-52.8	100	750	19 08 21
19 10 00	J1058+4304	06 42 49	47.5	76.9	-4.3		-53.0	-18	750	No stop
19 12 00	=1055+433	06 44 50	47.7	77.2	-4.2		-53.1	102	765	19 10 01
19 12 00	WXUMA	06 44 50	46.9	75.5	-4.4		-53.1	-17	765	No stop
19 14 00	---	06 46 50	47.2	75.8	-4.3		-53.3	103	781	19 12 01
19 14 00	J1108+4330	06 46 50	46.8	75.3	-4.4		-53.1	-13	781	No stop
19 16 00	=1105+437	06 48 50	47.1	75.6	-4.3		-53.2	107	796	19 14 01
19 16 00	J1110+4403	06 48 50	47.1	74.6	-4.4		-53.5	-14	796	No stop
19 18 00	=1107+443	06 50 51	47.4	74.9	-4.4		-53.6	106	812	19 16 01
19 18 00	WXUMA	06 50 51	47.8	76.4	-4.3		-53.5	-16	812	No stop
19 20 00	---	06 52 51	48.1	76.8	-4.2		-53.6	104	827	19 18 01
19 20 20	J1108+4330	06 53 11	47.7	76.3	-4.3		-53.4	7	827	19 20 20
19 22 00	=1105+437	06 54 51	48.0	76.6	-4.2		-53.5	100	840	19 20 21
19 22 00	J1058+4304	06 54 51	49.2	78.8	-4.1		-53.6	-18	840	No stop
19 24 00	=1055+433	06 56 52	49.5	79.2	-4.0		-53.7	102	855	19 22 01
19 24 00	WXUMA	06 56 52	48.7	77.4	-4.2		-53.8	-17	855	No stop
19 26 00	---	06 58 52	49.0	77.7	-4.1		-53.9	103	871	19 24 01
19 26 00	J1108+4330	06 58 52	48.5	77.3	-4.2		-53.7	-13	871	No stop
19 28 00	=1105+437	07 00 52	48.8	77.6	-4.1		-53.8	107	886	19 26 01

Schedule for TORUN (Code Tr)

Page 6

EB089 second epoch WX UMA Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu 24 Feb 2022	Day	55	---						
19 28 00	J1110+4403	07 00 52	48.8	76.5	-4.2		-54.2	-14	886	No stop
19 30 00	=1107+443	07 02 53	49.1	76.9	-4.2		-54.3	106	902	19 28 01
19 30 00	WXUMA	07 02 53	49.6	78.4	-4.1		-54.1	-16	902	No stop
19 32 00	---	07 04 53	49.9	78.7	-4.0		-54.2	104	917	19 30 01
19 32 20	J1108+4330	07 05 13	49.5	78.3	-4.1		-54.0	7	917	19 32 20
19 34 00	=1105+437	07 06 53	49.7	78.6	-4.0		-54.1	100	930	19 32 21
19 34 00	J1058+4304	07 06 53	51.0	80.9	-3.9		-54.1	-19	930	No stop
19 36 00	=1055+433	07 08 54	51.3	81.2	-3.8		-54.2	101	946	19 34 01
19 36 00	WXUMA	07 08 54	50.5	79.4	-4.0		-54.3	-17	946	No stop
19 38 00	---	07 10 54	50.8	79.7	-3.9		-54.4	103	961	19 36 01
19 38 00	J1108+4330	07 10 54	50.3	79.2	-4.0		-54.3	-13	961	No stop
19 40 00	=1105+437	07 12 54	50.6	79.6	-3.9		-54.4	107	976	19 38 01
19 40 00	J1110+4403	07 12 54	50.6	78.5	-4.0		-54.8	-14	976	No stop
19 42 00	=1107+443	07 14 55	50.9	78.8	-4.0		-54.9	106	992	19 40 01
19 42 00	WXUMA	07 14 55	51.4	80.4	-3.9		-54.6	-16	992	No stop
19 44 00	---	07 16 55	51.7	80.7	-3.8		-54.7	104	1007	19 42 01
19 44 20	J1108+4330	07 17 15	51.3	80.3	-3.9		-54.5	7	1007	19 44 20
19 46 00	=1105+437	07 18 55	51.5	80.6	-3.8		-54.6	100	1020	19 44 21
19 46 00	J1058+4304	07 18 55	52.8	82.9	-3.7		-54.5	-19	1020	No stop
19 48 00	=1055+433	07 20 56	53.1	83.3	-3.6		-54.6	101	1036	19 46 01
19 48 00	WXUMA	07 20 56	52.3	81.4	-3.8		-54.8	-17	1036	No stop
19 50 00	---	07 22 56	52.6	81.8	-3.7		-54.9	103	1051	19 48 01
19 50 00	J1108+4330	07 22 56	52.1	81.3	-3.8		-54.8	-13	1051	No stop
19 52 00	=1105+437	07 24 56	52.4	81.6	-3.7		-54.8	107	1067	19 50 01
19 52 00	J1110+4403	07 24 56	52.4	80.5	-3.8		-55.3	-14	1067	No stop
19 54 00	=1107+443	07 26 57	52.6	80.8	-3.8		-55.4	106	1082	19 52 01
19 54 00	WXUMA	07 26 57	53.1	82.5	-3.7		-55.0	-17	1082	No stop
19 56 00	---	07 28 57	53.4	82.8	-3.6		-55.1	103	1098	19 54 01
19 56 20	J1108+4330	07 29 17	53.0	82.4	-3.7		-55.0	7	1098	19 56 20
19 58 00	=1105+437	07 30 57	53.3	82.6	-3.6		-55.0	100	1110	19 56 21

Schedule for TORUN (Code Tr)

Page 7

EB089 second epoch WX UMA Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu 24 Feb 2022	Day	55	---						
19 58 00	J1058+4304	07 30 57	54.6	85.1	-3.5		-54.8	-19	1110	No stop
20 00 00	=1055+433	07 32 58	54.9	85.4	-3.4		-54.9	101	1126	19 58 01
20 00 00	WXUMA	07 32 58	54.0	83.5	-3.6		-55.2	-17	1126	No stop
20 02 00	---	07 34 58	54.3	83.9	-3.5		-55.3	103	1141	20 00 01
20 02 00	J1108+4330	07 34 58	53.9	83.3	-3.6		-55.2	-13	1141	No stop
20 04 00	=1105+437	07 36 58	54.2	83.7	-3.5		-55.2	107	1157	20 02 01
20 04 00	J1110+4403	07 36 58	54.1	82.5	-3.6		-55.8	-15	1157	No stop
20 06 00	=1107+443	07 38 59	54.4	82.9	-3.6		-55.8	105	1172	20 04 01
20 06 00	WXUMA	07 38 59	54.9	84.6	-3.5		-55.4	-17	1172	No stop
20 08 00	---	07 40 59	55.2	84.9	-3.4		-55.4	103	1188	20 06 01
20 08 20	J1108+4330	07 41 19	54.8	84.5	-3.5		-55.3	7	1188	20 08 20
20 10 00	=1105+437	07 42 59	55.1	84.8	-3.4		-55.4	100	1201	20 08 21
20 10 00	J1058+4304	07 42 59	56.4	87.3	-3.3		-55.0	-19	1201	No stop
20 12 00	=1055+433	07 45 00	56.7	87.7	-3.2		-55.1	101	1216	20 10 01
20 12 00	WXUMA	07 45 00	55.8	85.7	-3.4		-55.5	-18	1216	No stop
20 14 00	---	07 47 00	56.1	86.0	-3.3		-55.5	102	1232	20 12 01
20 14 00	J1108+4330	07 47 00	55.7	85.5	-3.4		-55.5	-13	1232	No stop
20 16 00	=1105+437	07 49 00	56.0	85.9	-3.3		-55.5	107	1247	20 14 01
20 16 00	J1110+4403	07 49 00	55.9	84.6	-3.4		-56.1	-15	1247	No stop
20 18 00	=1107+443	07 51 01	56.2	85.0	-3.4		-56.2	105	1262	20 16 01
20 18 00	WXUMA	07 51 01	56.7	86.8	-3.3		-55.6	-17	1262	No stop
20 20 00	---	07 53 01	57.0	87.2	-3.2		-55.6	103	1278	20 18 01
20 20 20	J1108+4330	07 53 21	56.6	86.7	-3.3		-55.6	7	1278	20 20 20
20 22 00	=1105+437	07 55 01	56.9	87.0	-3.2		-55.6	100	1291	20 20 21
20 22 00	J1058+4304	07 55 01	58.2	89.6	-3.1		-55.1	-20	1291	No stop
20 24 00	=1055+433	07 57 02	58.5	90.0	-3.0		-55.1	100	1306	20 22 01
20 24 00	WXUMA	07 57 02	57.6	87.9	-3.2		-55.7	-18	1306	No stop
20 26 00	---	07 59 02	57.9	88.3	-3.1		-55.7	102	1322	20 24 01
20 26 00	J1108+4330	07 59 02	57.5	87.7	-3.2		-55.7	-13	1322	No stop
20 28 00	=1105+437	08 01 02	57.8	88.1	-3.1		-55.7	107	1337	20 26 01

Schedule for TORUN (Code Tr)

Page 8

EB089 second epoch WX UMA Astrometry

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SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu 24 Feb 2022	Day	55	---						
20 28 00	J1110+4403	08 01 02	57.7	86.8	-3.2		-56.4	-15	1337	No stop
20 30 00	=1107+443	08 03 03	58.0	87.2	-3.1		-56.4	105	1353	20 28 01
20 30 00	WXUMA	08 03 03	58.6	89.1	-3.1		-55.7	-17	1353	No stop
20 32 00	---	08 05 03	58.9	89.5	-3.0		-55.7	103	1368	20 30 01
20 32 20	J1108+4330	08 05 23	58.4	89.0	-3.1		-55.7	7	1368	20 32 20
20 34 00	=1105+437	08 07 03	58.7	89.3	-3.0		-55.7	100	1381	20 32 21
20 34 00	J1058+4304	08 07 03	60.0	92.1	-2.9		-55.1	-20	1381	No stop
20 36 00	=1055+433	08 09 04	60.3	92.5	-2.8		-55.1	100	1396	20 34 01
20 36 00	WXUMA	08 09 04	59.5	90.3	-3.0		-55.7	-18	1396	No stop
20 38 00	---	08 11 04	59.8	90.7	-2.9		-55.7	102	1412	20 36 01
20 38 00	J1108+4330	08 11 04	59.3	90.1	-3.0		-55.7	-13	1412	No stop
20 40 00	=1105+437	08 13 04	59.6	90.5	-2.9		-55.7	107	1427	20 38 01
20 40 00	J1110+4403	08 13 04	59.5	89.1	-3.0		-56.5	-15	1427	No stop
20 42 00	=1107+443	08 15 05	59.8	89.5	-2.9		-56.5	105	1443	20 40 01
20 42 00	WXUMA	08 15 05	60.4	91.5	-2.9		-55.7	-18	1443	No stop
20 44 00	---	08 17 05	60.7	91.9	-2.8		-55.7	102	1458	20 42 01
20 44 20	J1108+4330	08 17 25	60.2	91.4	-2.9		-55.7	7	1458	20 44 20
20 46 00	=1105+437	08 19 05	60.5	91.7	-2.8		-55.7	100	1471	20 44 21
20 46 00	J1058+4304	08 19 05	61.8	94.7	-2.7		-54.9	-21	1471	No stop
20 48 00	=1055+433	08 21 06	62.1	95.1	-2.6		-54.8	99	1487	20 46 01
20 48 00	WXUMA	08 21 06	61.3	92.8	-2.8		-55.6	-19	1487	No stop
20 50 00	---	08 23 06	61.6	93.2	-2.7		-55.6	101	1502	20 48 01
20 50 00	J1108+4330	08 23 06	61.1	92.6	-2.8		-55.6	-13	1502	No stop
20 52 00	=1105+437	08 25 06	61.4	93.0	-2.7		-55.6	107	1517	20 50 01
20 52 00	J1110+4403	08 25 06	61.3	91.6	-2.8		-56.5	-16	1517	No stop
20 54 00	=1107+443	08 27 07	61.6	92.0	-2.7		-56.4	104	1533	20 52 01
20 54 00	WXUMA	08 27 07	62.2	94.1	-2.7		-55.5	-18	1533	No stop
20 56 00	---	08 29 07	62.5	94.5	-2.6		-55.5	102	1548	20 54 01
20 56 20	J1108+4330	08 29 27	62.1	93.9	-2.7		-55.5	7	1548	20 56 20
20 58 00	=1105+437	08 31 07	62.3	94.3	-2.6		-55.5	100	1561	20 56 21

Schedule for TORUN (Code Tr)

Page 9

EB089 second epoch WX UMA Astrometry

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	24 Feb 2022	Day	55	---					
20 58 00	J1058+4304	08 31 07	63.6	97.5	-2.5		-54.4	-21	1561	No stop
21 00 00	=1055+433	08 33 08	63.9	98.0	-2.4		-54.4	99	1577	20 58 01
21 00 00	WXUMA	08 33 08	63.1	95.4	-2.6		-55.4	-19	1577	No stop
21 02 00	---	08 35 08	63.4	95.9	-2.5		-55.3	101	1592	21 00 01
21 02 00	J1108+4330	08 35 08	62.9	95.2	-2.6		-55.4	-13	1592	No stop
21 04 00	=1105+437	08 37 08	63.2	95.7	-2.5		-55.3	107	1608	21 02 01
21 04 00	J1110+4403	08 37 08	63.2	94.1	-2.6		-56.3	-16	1608	No stop
21 06 00	=1107+443	08 39 09	63.5	94.6	-2.5		-56.2	104	1623	21 04 01
21 06 00	WXUMA	08 39 09	64.0	96.8	-2.5		-55.2	-19	1623	No stop
21 08 00	---	08 41 09	64.3	97.3	-2.4		-55.1	101	1639	21 06 01
21 08 20	J1108+4330	08 41 29	63.9	96.7	-2.5		-55.2	7	1639	21 08 20
21 10 00	=1105+437	08 43 09	64.1	97.1	-2.4		-55.1	100	1651	21 08 21
21 10 00	J1058+4304	08 43 09	65.4	100.5	-2.3		-53.8	-22	1651	No stop
21 12 00	=1055+433	08 45 10	65.7	101.0	-2.2		-53.7	98	1667	21 10 01
21 12 00	WXUMA	08 45 10	64.9	98.3	-2.4		-54.9	-20	1667	No stop
21 14 00	---	08 47 10	65.2	98.8	-2.3		-54.8	100	1682	21 12 01
21 14 00	J1108+4330	08 47 10	64.7	98.0	-2.4		-54.9	-13	1682	No stop
21 16 00	=1105+437	08 49 10	65.0	98.5	-2.3		-54.8	107	1698	21 14 01
21 16 00	J1110+4403	08 49 10	64.9	96.9	-2.4		-55.9	-16	1698	No stop
21 18 00	=1107+443	08 51 11	65.2	97.4	-2.3		-55.8	104	1713	21 16 01
21 18 00	WXUMA	08 51 11	65.7	99.8	-2.3		-54.5	-19	1713	No stop
21 20 00	---	08 53 11	66.0	100.3	-2.2		-54.4	101	1729	21 18 01
21 20 20	J1108+4330	08 53 31	65.6	99.6	-2.3		-54.6	7	1729	21 20 20
21 22 00	=1105+437	08 55 11	65.9	100.1	-2.2		-54.5	100	1742	21 20 21
21 22 00	J1058+4304	08 55 11	67.1	103.7	-2.1		-52.8	-22	1742	No stop
21 24 00	=1055+433	08 57 12	67.4	104.3	-2.0		-52.7	98	1757	21 22 01
21 24 00	WXUMA	08 57 12	66.6	101.4	-2.2		-54.1	-20	1757	No stop
21 26 00	---	08 59 12	66.9	101.9	-2.1		-54.0	100	1773	21 24 01
21 26 00	J1108+4330	08 59 12	66.5	101.1	-2.2		-54.2	-13	1773	No stop
21 28 00	=1105+437	09 01 12	66.8	101.6	-2.1		-54.0	107	1788	21 26 01

Schedule for TORUN (Code Tr)

Page 10

EB089 second epoch WX UMA Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC	

---	Thu 24 Feb 2022	Day	55	---							
21 28 00	J1110+4403	09 01 12	66.7	99.9	-2.2		-55.2	-17	1788	No stop	
21 30 00	=1107+443	09 03 12	67.0	100.4	-2.1		-55.1	103	1803	21 28 01	
21 31 00	4C39.25	09 04 13	75.2	161.2	-0.4		-14.4	-78	1803	21 31 00	
21 39 00	---	09 12 14	75.6	167.2	-0.3		-9.8	402	1865	21 31 01	
21 39 00	J1105+4428	09 12 14	69.3	103.4	-1.9		-54.8	-141	1865	No stop	
21 42 00	---	09 15 14	69.8	104.3	-1.9		-54.5	39	1888	21 39 01	
21 42 00	WXUMA	09 15 14	69.3	106.6	-1.9		-52.4	-19	1888	No stop	
21 44 00	---	09 17 15	69.6	107.2	-1.8		-52.1	101	1904	21 42 01	
21 44 20	J1108+4330	09 17 35	69.2	106.4	-1.9		-52.4	7	1904	21 44 20	
21 46 00	=1105+437	09 19 15	69.4	106.9	-1.8		-52.2	100	1917	21 44 21	
21 46 00	J1058+4304	09 19 15	70.6	111.4	-1.7		-49.8	-24	1917	No stop	
21 48 00	=1055+433	09 21 15	70.9	112.1	-1.6		-49.5	96	1932	21 46 01	
21 48 00	WXUMA	09 21 15	70.1	108.5	-1.8		-51.6	-22	1932	No stop	
21 50 00	---	09 23 16	70.4	109.2	-1.7		-51.3	98	1948	21 48 01	
21 50 00	J1108+4330	09 23 16	70.0	108.2	-1.8		-51.7	-14	1948	No stop	
21 52 00	=1105+437	09 25 16	70.3	108.9	-1.7		-51.4	106	1963	21 50 01	
21 52 00	J1110+4403	09 25 16	70.2	106.8	-1.8		-53.0	-18	1963	No stop	
21 54 00	=1107+443	09 27 16	70.5	107.5	-1.7		-52.7	102	1979	21 52 01	
21 54 00	WXUMA	09 27 16	71.0	110.6	-1.7		-50.7	-21	1979	No stop	
21 56 00	---	09 29 17	71.3	111.3	-1.6		-50.4	99	1994	21 54 01	
21 56 20	J1108+4330	09 29 37	70.9	110.4	-1.7		-50.8	6	1994	21 56 20	
21 58 00	=1105+437	09 31 17	71.1	111.0	-1.6		-50.5	100	2007	21 56 21	
21 58 00	J1058+4304	09 31 17	72.2	115.9	-1.5		-47.6	-25	2007	No stop	
22 00 00	=1055+433	09 33 17	72.5	116.7	-1.4		-47.1	95	2022	21 58 01	
22 00 00	WXUMA	09 33 17	71.8	112.8	-1.6		-49.7	-23	2022	No stop	
22 02 00	---	09 35 18	72.1	113.5	-1.5		-49.3	97	2038	22 00 01	
22 02 00	J1108+4330	09 35 18	71.7	112.4	-1.6		-49.8	-14	2038	No stop	
22 04 00	=1105+437	09 37 18	71.9	113.2	-1.5		-49.4	106	2053	22 02 01	
22 04 00	J1110+4403	09 37 18	72.0	110.9	-1.6		-51.1	-18	2053	No stop	
22 06 00	=1107+443	09 39 18	72.2	111.7	-1.5		-50.8	102	2069	22 04 01	

Schedule for TORUN (Code Tr)

Page 11

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	24 Feb 2022	Day	55	---					
22 06 00	WXUMA	09 39 18	72.6	115.1	-1.5		-48.5	-22	2069	No stop
22 08 00	---	09 41 19	72.9	115.9	-1.4		-48.0	98	2084	22 06 01
22 08 20	J1108+4330	09 41 39	72.5	114.9	-1.5		-48.6	5	2084	22 08 20
22 10 00	=1105+437	09 43 19	72.8	115.5	-1.4		-48.2	100	2097	22 08 21
22 10 00	J1058+4304	09 43 19	73.8	121.2	-1.3		-44.6	-27	2097	No stop
22 12 00	=1055+433	09 45 19	74.1	122.1	-1.2		-44.0	93	2113	22 10 01
22 12 00	WXUMA	09 45 19	73.4	117.6	-1.4		-47.1	-24	2113	No stop
22 14 00	---	09 47 20	73.7	118.5	-1.3		-46.6	96	2128	22 12 01
22 14 00	J1108+4330	09 47 20	73.3	117.2	-1.4		-47.3	-15	2128	No stop
22 16 00	=1105+437	09 49 20	73.6	118.1	-1.3		-46.8	105	2144	22 14 01
22 16 00	J1110+4403	09 49 20	73.6	115.7	-1.4		-48.7	-19	2144	No stop
22 18 00	=1107+443	09 51 20	73.9	116.5	-1.3		-48.3	101	2159	22 16 01
22 18 00	WXUMA	09 51 20	74.2	120.3	-1.3		-45.5	-23	2159	No stop
22 20 00	---	09 53 21	74.5	121.3	-1.2		-44.9	97	2174	22 18 01
22 20 20	J1108+4330	09 53 41	74.1	120.1	-1.3		-45.7	5	2174	22 20 20
22 22 00	=1105+437	09 55 21	74.4	120.8	-1.2		-45.2	100	2187	22 20 21
22 22 00	J1058+4304	09 55 21	75.3	127.3	-1.1		-40.8	-28	2187	No stop
22 24 00	=1055+433	09 57 21	75.6	128.4	-1.0		-40.0	92	2203	22 22 01
22 24 00	WXUMA	09 57 21	75.0	123.3	-1.2		-43.7	-25	2203	No stop
22 26 00	---	09 59 22	75.3	124.3	-1.1		-43.1	95	2218	22 24 01
22 26 00	J1108+4330	09 59 22	74.9	122.8	-1.2		-44.0	-16	2218	No stop
22 28 00	=1105+437	10 01 22	75.1	123.8	-1.1		-43.4	104	2234	22 26 01
22 28 00	J1110+4403	10 01 22	75.2	121.1	-1.2		-45.5	-19	2234	No stop
22 30 00	=1107+443	10 03 22	75.5	122.1	-1.1		-44.9	101	2249	22 28 01
22 30 00	WXUMA	10 03 22	75.7	126.5	-1.1		-41.7	-24	2249	No stop
22 32 00	---	10 05 23	76.0	127.6	-1.0		-40.9	96	2265	22 30 01
22 32 20	J1108+4330	10 05 43	75.7	126.1	-1.1		-41.9	4	2265	22 32 20
22 34 00	=1105+437	10 07 23	75.9	127.0	-1.0		-41.3	100	2278	22 32 21
22 34 00	J1058+4304	10 07 23	76.7	134.4	-0.9		-35.9	-30	2278	No stop
22 36 00	=1055+433	10 09 23	76.9	135.7	-0.8		-35.0	90	2293	22 34 01

Schedule for TORUN (Code Tr)

Page 12

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	24 Feb 2022	Day	55	---					
22 36 00	WXUMA	10 09 23	76.5	129.9	-1.0		-39.3	-26	2293	No stop
22 38 00	---	10 11 24	76.7	131.1	-0.9		-38.5	94	2308	22 36 01
22 38 00	J1108+4330	10 11 24	76.3	129.4	-1.0		-39.7	-17	2308	No stop
22 40 00	=1105+437	10 13 24	76.6	130.6	-0.9		-38.9	103	2324	22 38 01
22 40 00	J1110+4403	10 13 24	76.7	127.6	-1.0		-41.3	-20	2324	No stop
22 42 00	=1107+443	10 15 24	76.9	128.8	-0.9		-40.5	100	2339	22 40 01
22 42 00	WXUMA	10 15 24	77.1	133.7	-0.9		-36.7	-25	2339	No stop
22 44 00	---	10 17 25	77.3	135.0	-0.8		-35.7	95	2355	22 42 01
22 44 20	J1108+4330	10 17 45	77.0	133.3	-0.9		-37.0	3	2355	22 44 20
22 46 00	=1105+437	10 19 25	77.2	134.4	-0.8		-36.2	100	2368	22 44 21
22 46 00	J1058+4304	10 19 25	77.9	142.8	-0.7		-29.7	-33	2368	No stop
22 48 00	=1055+433	10 21 25	78.1	144.4	-0.6		-28.6	87	2383	22 46 01
22 48 00	WXUMA	10 21 25	77.8	137.8	-0.8		-33.7	-28	2383	No stop
22 50 00	---	10 23 26	78.0	139.2	-0.7		-32.7	92	2399	22 48 01
22 50 00	J1108+4330	10 23 26	77.6	137.1	-0.8		-34.2	-18	2399	No stop
22 52 00	=1105+437	10 25 26	77.9	138.5	-0.7		-33.2	102	2414	22 50 01
22 52 00	J1110+4403	10 25 26	78.1	135.4	-0.8		-35.9	-20	2414	No stop
22 54 00	=1107+443	10 27 26	78.3	136.8	-0.7		-34.8	100	2430	22 52 01
22 54 00	WXUMA	10 27 26	78.3	142.3	-0.7		-30.4	-26	2430	No stop
22 56 00	---	10 29 27	78.5	143.9	-0.6		-29.2	94	2445	22 54 01
22 56 20	J1108+4330	10 29 47	78.3	141.8	-0.7		-30.7	2	2445	22 56 20
22 58 00	=1105+437	10 31 27	78.4	143.1	-0.6		-29.8	100	2458	22 56 21
22 58 00	J1058+4304	10 31 27	78.9	152.7	-0.5		-22.1	-35	2458	No stop
23 00 00	=1055+433	10 33 27	79.0	154.4	-0.4		-20.7	85	2473	22 58 01
23 00 00	WXUMA	10 33 27	78.9	147.1	-0.6		-26.7	-29	2473	No stop
23 02 00	---	10 35 28	79.0	148.8	-0.5		-25.3	91	2489	23 00 01
23 02 00	J1108+4330	10 35 28	78.8	146.3	-0.6		-27.3	-19	2489	No stop
23 04 00	=1105+437	10 37 28	78.9	148.0	-0.5		-26.0	101	2504	23 02 01
23 04 00	J1110+4403	10 37 28	79.2	144.7	-0.6		-28.8	-21	2504	No stop
23 06 00	=1107+443	10 39 28	79.4	146.4	-0.5		-27.5	99	2520	23 04 01

Schedule for TORUN (Code Tr)

Page 13

EB089 second epoch WX UMA Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu 24 Feb 2022	Day	55	---						
23 06 00	WXUMA	10 39 28	79.3	152.4	-0.5		-22.5	-28	2520	No stop
23 08 00	---	10 41 29	79.5	154.2	-0.4		-21.1	92	2535	23 06 01
23 08 20	J1108+4330	10 41 49	79.3	151.8	-0.5		-23.0	1	2535	23 08 20
23 10 00	=1105+437	10 43 29	79.4	153.3	-0.4		-21.8	100	2548	23 08 21
23 10 00	J1058+4304	10 43 29	79.5	163.9	-0.3		-13.2	-37	2548	No stop
23 12 00	=1055+433	10 45 29	79.6	165.8	-0.2		-11.6	83	2563	23 10 01
23 12 00	WXUMA	10 45 29	79.7	158.0	-0.4		-18.0	-30	2563	No stop
23 14 00	---	10 47 30	79.8	160.0	-0.3		-16.4	90	2579	23 12 01
23 14 00	J1108+4330	10 47 30	79.6	157.1	-0.4		-18.8	-20	2579	No stop
23 16 00	=1105+437	10 49 30	79.7	159.0	-0.3		-17.2	100	2594	23 14 01
23 16 00	J1110+4403	10 49 30	80.1	155.7	-0.4		-20.1	-21	2594	No stop
23 18 00	=1107+443	10 51 30	80.2	157.7	-0.3		-18.5	99	2610	23 16 01
23 18 00	WXUMA	10 51 30	80.0	164.0	-0.3		-13.2	-28	2610	No stop
23 20 00	---	10 53 31	80.1	166.0	-0.2		-11.5	92	2625	23 18 01
23 20 20	J1108+4330	10 53 51	80.0	163.3	-0.3		-13.7	0	2625	23 20 20
23 22 00	=1105+437	10 55 31	80.0	165.0	-0.2		-12.3	100	2638	23 20 21
23 22 00	J1058+4304	10 55 31	79.8	176.0	-0.1		-3.2	-38	2638	No stop
23 24 00	=1055+433	10 57 31	79.9	178.1	-0.0		-1.5	82	2654	23 22 01
23 24 00	WXUMA	10 57 31	80.2	170.2	-0.2		-8.1	-30	2654	No stop
23 26 00	---	10 59 32	80.2	172.4	-0.1		-6.3	90	2669	23 24 01
23 26 00	J1108+4330	10 59 32	80.2	169.2	-0.2		-8.9	-20	2669	No stop
23 28 00	=1105+437	11 01 32	80.2	171.3	-0.1		-7.2	100	2685	23 26 01
23 28 00	J1110+4403	11 01 32	80.7	168.3	-0.2		-9.8	-20	2685	No stop
23 30 00	=1107+443	11 03 32	80.7	170.5	-0.1		-7.9	100	2700	23 28 01
23 30 00	WXUMA	11 03 32	80.3	176.7	-0.1		-2.8	-28	2700	No stop
23 32 00	---	11 05 33	80.3	178.8	-0.0		-1.0	92	2716	23 30 01
23 32 20	J1108+4330	11 05 53	80.3	175.9	-0.1		-3.4	0	2716	23 32 20
23 34 00	=1105+437	11 07 33	80.3	177.7	-0.0		-1.9	100	2728	23 32 21
23 34 00	J1058+4304	11 07 33	79.8	188.5	0.1		7.0	-38	2728	No stop
23 36 00	=1055+433	11 09 33	79.7	190.5	0.2		8.6	82	2744	23 34 01

Schedule for TORUN (Code Tr)

Page 14

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Thu 24 Feb 2022 Day 55 ---										
23 36 00	WXUMA	11 09 33	80.3	183.2	0.0		2.6	-29	2744	No stop
23 38 00	---	11 11 34	80.3	185.3	0.1		4.4	91	2759	23 36 01
23 38 00	J1108+4330	11 11 34	80.3	182.1	0.0		1.7	-20	2759	No stop
23 40 00	=1105+437	11 13 34	80.3	184.2	0.1		3.5	100	2775	23 38 01
23 40 00	J1110+4403	11 13 34	80.8	181.7	0.0		1.4	-18	2775	No stop
23 42 00	=1107+443	11 15 34	80.8	184.0	0.1		3.3	102	2790	23 40 01
23 42 00	WXUMA	11 15 34	80.2	189.6	0.1		7.9	-27	2790	No stop
23 44 00	---	11 17 35	80.1	191.7	0.2		9.6	93	2806	23 42 01
23 44 20	J1108+4330	11 17 55	80.2	188.9	0.1		7.3	0	2806	23 44 20
23 46 00	=1105+437	11 19 35	80.2	190.6	0.2		8.8	100	2819	23 44 21
23 46 00	J1058+4304	11 19 35	79.3	200.4	0.3		16.6	-36	2819	No stop
23 48 00	=1055+433	11 21 35	79.2	202.3	0.4		18.1	84	2834	23 46 01
23 48 00	WXUMA	11 21 35	80.0	195.8	0.2		13.0	-27	2834	No stop
23 50 00	---	11 23 35	79.9	197.9	0.3		14.7	93	2849	23 48 01
23 50 00	J1108+4330	11 23 35	80.0	194.8	0.2		12.2	-20	2849	No stop
23 52 00	=1105+437	11 25 36	79.9	196.8	0.3		13.8	100	2865	23 50 01
23 52 00	J1110+4403	11 25 36	80.6	195.1	0.2		12.5	-16	2865	No stop
23 54 00	=1107+443	11 27 36	80.5	197.2	0.3		14.3	104	2880	23 52 01
--- Start: Thu 24 Feb 2022 Day 55 -- Stop: Fri 25 Feb 2022 Day 56 ---										
23 55 00	OQ208	11 28 36	51.8	114.3	-2.7		-38.4	-120	2880	23 55 00
00 02 00	---	11 35 37	52.7	116.3	-2.5		-37.7	300	2934	23 55 01
00 02 00	J1105+4428	11 35 37	80.1	211.1	0.5		25.7	-211	2934	No stop
00 06 00	---	11 39 38	79.8	214.8	0.5		28.6	29	2965	00 02 01
00 06 00	WXUMA	11 39 38	78.9	212.7	0.6		26.5	-17	2965	No stop
00 08 00	---	11 41 38	78.7	214.4	0.6		27.8	103	2981	00 06 01
00 08 20	J1108+4330	11 41 58	78.9	212.1	0.5		26.1	1	2981	00 08 20
00 10 00	=1105+437	11 43 39	78.8	213.5	0.6		27.2	100	2994	00 08 21
00 10 00	J1058+4304	11 43 39	77.5	220.4	0.7		32.1	-29	2994	No stop
00 12 00	=1055+433	11 45 39	77.3	221.8	0.8		33.2	91	3009	00 10 01

Schedule for TORUN (Code Tr)

Page 15

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
00 12 00	WXUMA	11 45 39	78.4	217.6	0.7		30.3	-23	3009	No stop
00 14 00	---	11 47 39	78.2	219.1	0.7		31.4	97	3025	00 12 01
00 14 00	J1108+4330	11 47 39	78.4	216.8	0.6		29.6	-18	3025	No stop
00 16 00	=1105+437	11 49 40	78.3	218.3	0.7		30.8	102	3040	00 14 01
00 16 00	J1110+4403	11 49 40	78.9	217.9	0.6		30.8	-14	3040	No stop
00 18 00	=1107+443	11 51 40	78.8	219.5	0.7		32.0	106	3056	00 16 01
00 18 00	WXUMA	11 51 40	77.8	222.1	0.8		33.6	-20	3056	No stop
00 20 00	---	11 53 40	77.6	223.5	0.8		34.7	100	3071	00 18 01
00 20 20	J1108+4330	11 54 00	77.8	221.6	0.7		33.2	2	3071	00 20 20
00 22 00	=1105+437	11 55 41	77.7	222.7	0.8		34.1	100	3084	00 20 21
00 22 00	J1058+4304	11 55 41	76.2	228.4	0.9		37.8	-27	3084	No stop
00 24 00	=1055+433	11 57 41	76.0	229.6	1.0		38.6	93	3099	00 22 01
00 24 00	WXUMA	11 57 41	77.2	226.2	0.9		36.6	-21	3099	No stop
00 26 00	---	11 59 41	76.9	227.5	0.9		37.5	99	3115	00 24 01
00 26 00	J1108+4330	11 59 41	77.2	225.5	0.8		36.1	-17	3115	No stop
00 28 00	=1105+437	12 01 42	77.0	226.8	0.9		37.0	103	3130	00 26 01
00 28 00	J1110+4403	12 01 42	77.7	226.7	0.8		37.4	-14	3130	No stop
00 30 00	=1107+443	12 03 42	77.5	228.1	0.9		38.3	106	3146	00 28 01
00 30 00	WXUMA	12 03 42	76.5	230.0	1.0		39.3	-18	3146	No stop
00 32 00	---	12 05 42	76.2	231.2	1.0		40.1	102	3161	00 30 01
00 32 20	J1108+4330	12 06 02	76.5	229.5	0.9		39.0	3	3161	00 32 20
00 34 00	=1105+437	12 07 43	76.4	230.5	1.0		39.6	100	3174	00 32 21
00 34 00	J1058+4304	12 07 43	74.8	235.1	1.1		42.3	-24	3174	No stop
00 36 00	=1055+433	12 09 43	74.5	236.1	1.2		42.9	96	3190	00 34 01
00 36 00	WXUMA	12 09 43	75.8	233.4	1.1		41.6	-19	3190	No stop
00 38 00	---	12 11 43	75.5	234.5	1.1		42.3	101	3205	00 36 01
00 38 00	J1108+4330	12 11 43	75.9	232.8	1.0		41.2	-16	3205	No stop
00 40 00	=1105+437	12 13 44	75.6	234.0	1.1		41.9	104	3220	00 38 01
00 40 00	J1110+4403	12 13 44	76.3	234.1	1.0		42.5	-14	3220	No stop
00 42 00	=1107+443	12 15 44	76.1	235.3	1.1		43.2	106	3236	00 40 01

Schedule for TORUN (Code Tr)

Page 16

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
00 42 00	WXUMA	12 15 44	75.0	236.6	1.2		43.7	-17	3236	No stop
00 44 00	---	12 17 44	74.8	237.6	1.2		44.3	103	3251	00 42 01
00 44 20	J1108+4330	12 18 04	75.1	236.3	1.1		43.4	4	3251	00 44 20
00 46 00	=1105+437	12 19 45	74.9	237.1	1.2		43.9	100	3264	00 44 21
00 46 00	J1058+4304	12 19 45	73.3	240.8	1.3		45.8	-23	3264	No stop
00 48 00	=1055+433	12 21 45	73.0	241.7	1.4		46.3	97	3280	00 46 01
00 48 00	WXUMA	12 21 45	74.3	239.6	1.3		45.5	-18	3280	No stop
00 50 00	---	12 23 45	74.0	240.5	1.3		46.0	102	3295	00 48 01
00 50 00	J1108+4330	12 23 45	74.4	239.1	1.2		45.1	-15	3295	No stop
00 52 00	=1105+437	12 25 46	74.1	240.0	1.3		45.7	105	3311	00 50 01
00 52 00	J1110+4403	12 25 46	74.8	240.3	1.2		46.4	-14	3311	No stop
00 54 00	=1107+443	12 27 46	74.5	241.3	1.3		47.0	106	3326	00 52 01
00 54 00	WXUMA	12 27 46	73.5	242.3	1.4		47.0	-17	3326	No stop
00 56 00	---	12 29 46	73.2	243.2	1.4		47.5	103	3342	00 54 01
00 56 20	J1108+4330	12 30 06	73.6	242.0	1.3		46.8	5	3342	00 56 20
00 58 00	=1105+437	12 31 47	73.3	242.7	1.4		47.2	100	3354	00 56 21
00 58 00	J1058+4304	12 31 47	71.6	245.8	1.5		48.5	-21	3354	No stop
01 00 00	=1055+433	12 33 47	71.4	246.6	1.6		48.8	99	3370	00 58 01
01 00 00	WXUMA	12 33 47	72.7	244.8	1.5		48.4	-18	3370	No stop
01 02 00	---	12 35 47	72.4	245.6	1.5		48.8	102	3385	01 00 01
01 02 00	J1108+4330	12 35 47	72.8	244.4	1.4		48.2	-15	3385	No stop
01 04 00	=1105+437	12 37 48	72.5	245.2	1.5		48.6	105	3401	01 02 01
01 04 00	J1110+4403	12 37 48	73.2	245.6	1.4		49.4	-14	3401	No stop
01 06 00	=1107+443	12 39 48	72.9	246.4	1.5		49.8	106	3416	01 04 01
01 06 00	WXUMA	12 39 48	71.8	247.2	1.6		49.6	-17	3416	No stop
01 08 00	---	12 41 48	71.6	247.9	1.6		50.0	103	3432	01 06 01
01 08 20	J1108+4330	12 42 08	71.9	246.9	1.5		49.5	6	3432	01 08 20
01 10 00	=1105+437	12 43 49	71.7	247.5	1.6		49.8	100	3445	01 08 21
01 10 00	J1058+4304	12 43 49	70.0	250.2	1.7		50.5	-20	3445	No stop
01 12 00	=1055+433	12 45 49	69.7	250.8	1.8		50.8	100	3460	01 10 01

Schedule for TORUN (Code Tr)

Page 17

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
01 12 00	WXUMA	12 45 49	71.0	249.4	1.7		50.7	-18	3460	No stop
01 14 00	---	12 47 49	70.7	250.1	1.7		51.0	102	3476	01 12 01
01 14 00	J1108+4330	12 47 49	71.1	249.0	1.6		50.5	-14	3476	No stop
01 16 00	=1105+437	12 49 50	70.9	249.7	1.7		50.8	106	3491	01 14 01
01 16 00	J1110+4403	12 49 50	71.5	250.2	1.6		51.7	-14	3491	No stop
01 18 00	=1107+443	12 51 50	71.2	250.9	1.7		52.0	106	3506	01 16 01
01 18 00	WXUMA	12 51 50	70.1	251.4	1.8		51.6	-17	3506	No stop
01 20 00	---	12 53 50	69.9	252.1	1.8		51.9	103	3522	01 18 01
01 20 20	J1108+4330	12 54 10	70.2	251.2	1.7		51.5	6	3522	01 20 20
01 22 00	=1105+437	12 55 51	70.0	251.7	1.8		51.7	100	3535	01 20 21
01 22 00	J1058+4304	12 55 51	68.2	254.0	1.9		52.1	-20	3535	No stop
01 24 00	=1055+433	12 57 51	68.0	254.6	2.0		52.3	100	3550	01 22 01
01 24 00	WXUMA	12 57 51	69.3	253.4	1.9		52.4	-18	3550	No stop
01 26 00	---	12 59 51	69.0	254.0	1.9		52.6	102	3566	01 24 01
01 26 00	J1108+4330	12 59 51	69.4	253.0	1.8		52.2	-14	3566	No stop
01 28 00	=1105+437	13 01 52	69.1	253.7	1.9		52.5	106	3581	01 26 01
01 28 00	J1110+4403	13 01 52	69.8	254.1	1.8		53.3	-14	3581	No stop
01 30 00	=1107+443	13 03 52	69.5	254.8	1.9		53.6	106	3597	01 28 01
01 30 00	WXUMA	13 03 52	68.4	255.2	2.0		53.0	-17	3597	No stop
01 32 00	---	13 05 52	68.1	255.8	2.0		53.3	103	3612	01 30 01
01 32 20	J1108+4330	13 06 12	68.5	255.0	1.9		53.0	7	3612	01 32 20
01 34 00	=1105+437	13 07 53	68.3	255.5	2.0		53.1	100	3625	01 32 21
01 34 00	J1058+4304	13 07 53	66.5	257.5	2.1		53.2	-21	3625	No stop
01 36 00	=1055+433	13 09 53	66.2	258.0	2.2		53.4	99	3640	01 34 01
01 36 00	WXUMA	13 09 53	67.5	256.9	2.1		53.6	-18	3640	No stop
01 38 00	---	13 11 53	67.2	257.5	2.1		53.8	102	3656	01 36 01
01 38 00	J1108+4330	13 11 53	67.7	256.6	2.0		53.5	-13	3656	No stop
01 40 00	=1105+437	13 13 54	67.4	257.2	2.1		53.7	107	3671	01 38 01
01 40 00	J1110+4403	13 13 54	68.1	257.7	2.0		54.6	-14	3671	No stop
01 42 00	=1107+443	13 15 54	67.8	258.2	2.1		54.7	106	3687	01 40 01

Schedule for TORUN (Code Tr)

Page 18

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
01 42 00	WXUMA	13 15 54	66.7	258.6	2.2		54.1	-17	3687	No stop
01 44 00	---	13 17 54	66.4	259.1	2.2		54.3	103	3702	01 42 01
01 44 20	J1108+4330	13 18 14	66.8	258.4	2.1		54.0	7	3702	01 44 20
01 46 00	=1105+437	13 19 55	66.5	258.8	2.2		54.2	100	3715	01 44 21
01 46 00	J1058+4304	13 19 55	64.7	260.7	2.3		54.1	-21	3715	No stop
01 48 00	=1055+433	13 21 55	64.4	261.2	2.4		54.2	99	3731	01 46 01
01 48 00	WXUMA	13 21 55	65.8	260.2	2.3		54.5	-18	3731	No stop
01 50 00	---	13 23 55	65.5	260.7	2.3		54.7	102	3746	01 48 01
01 50 00	J1108+4330	13 23 55	65.9	259.9	2.2		54.4	-13	3746	No stop
01 52 00	=1105+437	13 25 56	65.6	260.4	2.3		54.6	107	3762	01 50 01
01 52 00	J1110+4403	13 25 56	66.3	260.9	2.2		55.4	-14	3762	No stop
01 54 00	=1107+443	13 27 56	66.0	261.4	2.3		55.5	106	3777	01 52 01
01 54 00	WXUMA	13 27 56	64.9	261.7	2.4		54.9	-17	3777	No stop
01 56 00	---	13 29 56	64.6	262.2	2.4		55.0	103	3792	01 54 01
01 56 20	J1108+4330	13 30 16	65.0	261.5	2.3		54.8	7	3792	01 56 20
01 58 00	=1105+437	13 31 57	64.7	261.9	2.4		54.9	100	3805	01 56 21
01 58 00	J1058+4304	13 31 57	62.9	263.6	2.5		54.6	-21	3805	No stop
02 00 00	=1055+433	13 33 57	62.6	264.0	2.6		54.7	99	3821	01 58 01
02 00 00	WXUMA	13 33 57	64.0	263.1	2.5		55.1	-18	3821	No stop
02 02 00	---	13 35 57	63.7	263.6	2.5		55.2	102	3836	02 00 01
02 02 00	J1108+4330	13 35 57	64.1	262.9	2.4		55.1	-13	3836	No stop
02 04 00	=1105+437	13 37 58	63.8	263.4	2.5		55.2	107	3852	02 02 01
02 04 00	J1110+4403	13 37 58	64.5	263.8	2.4		56.0	-14	3852	No stop
02 06 00	=1107+443	13 39 58	64.2	264.3	2.5		56.1	106	3867	02 04 01
02 06 00	WXUMA	13 39 58	63.1	264.5	2.6		55.4	-17	3867	No stop
02 08 00	---	13 41 58	62.8	265.0	2.6		55.4	103	3883	02 06 01
02 08 20	J1108+4330	13 42 18	63.2	264.4	2.5		55.3	7	3883	02 08 20
02 10 00	=1105+437	13 43 58	62.9	264.7	2.6		55.4	100	3895	02 08 21
02 10 00	J1058+4304	13 43 58	61.1	266.3	2.7		55.0	-21	3895	No stop
02 12 00	=1055+433	13 45 59	60.8	266.7	2.8		55.0	99	3911	02 10 01

Schedule for TORUN (Code Tr)

Page 19

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
02 12 00	WXUMA	13 45 59	62.2	265.9	2.7		55.5	-18	3911	No stop
02 14 00	---	13 47 59	61.9	266.3	2.7		55.6	102	3926	02 12 01
02 14 00	J1108+4330	13 47 59	62.3	265.6	2.6		55.5	-13	3926	No stop
02 16 00	=1105+437	13 49 59	62.0	266.1	2.7		55.5	107	3942	02 14 01
02 16 00	J1110+4403	13 49 59	62.7	266.5	2.6		56.3	-14	3942	No stop
02 18 00	=1107+443	13 52 00	62.4	267.0	2.7		56.4	106	3957	02 16 01
02 18 00	WXUMA	13 52 00	61.3	267.2	2.8		55.6	-17	3957	No stop
02 20 00	---	13 54 00	61.0	267.6	2.8		55.7	103	3973	02 18 01
02 20 20	J1108+4330	13 54 20	61.4	267.0	2.7		55.6	7	3973	02 20 20
02 22 00	=1105+437	13 56 00	61.1	267.4	2.8		55.6	100	3986	02 20 21
02 22 00	J1058+4304	13 56 00	59.3	268.8	2.9		55.1	-21	3986	No stop
02 24 00	=1055+433	13 58 01	59.0	269.2	3.0		55.1	99	4001	02 22 01
02 24 00	WXUMA	13 58 01	60.4	268.5	2.9		55.7	-18	4001	No stop
02 26 00	---	14 00 01	60.1	268.9	2.9		55.7	102	4017	02 24 01
02 26 00	J1108+4330	14 00 01	60.5	268.2	2.8		55.7	-13	4017	No stop
02 28 00	=1105+437	14 02 01	60.2	268.6	2.9		55.7	107	4032	02 26 01
02 28 00	J1110+4403	14 02 01	60.9	269.1	2.8		56.5	-14	4032	No stop
02 30 00	=1107+443	14 04 02	60.6	269.5	2.9		56.5	106	4047	02 28 01
02 30 00	WXUMA	14 04 02	59.5	269.7	3.0		55.7	-17	4047	No stop
02 32 00	---	14 06 02	59.2	270.1	3.0		55.7	103	4063	02 30 01
02 32 20	J1108+4330	14 06 22	59.6	269.5	2.9		55.7	7	4063	02 32 20
02 34 00	=1105+437	14 08 02	59.3	269.9	3.0		55.7	100	4076	02 32 21
02 34 00	J1058+4304	14 08 02	57.5	271.2	3.1		55.1	-21	4076	No stop
02 36 00	=1055+433	14 10 03	57.2	271.6	3.2		55.1	99	4091	02 34 01
02 36 00	WXUMA	14 10 03	58.6	270.9	3.1		55.7	-18	4091	No stop
02 38 00	---	14 12 03	58.3	271.3	3.1		55.7	102	4107	02 36 01
02 38 00	J1108+4330	14 12 03	58.7	270.7	3.0		55.7	-13	4107	No stop
02 40 00	=1105+437	14 14 03	58.4	271.1	3.1		55.7	107	4122	02 38 01
02 40 00	J1110+4403	14 14 03	59.1	271.5	3.0		56.5	-14	4122	No stop
02 42 00	=1107+443	14 16 04	58.8	271.8	3.1		56.5	106	4138	02 40 01

Schedule for TORUN (Code Tr)

Page 20

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
02 42 00	WXUMA	14 16 04	57.7	272.0	3.2		55.7	-17	4138	No stop
02 44 00	---	14 18 04	57.4	272.4	3.2		55.7	103	4153	02 42 01
02 44 20	J1108+4330	14 18 24	57.8	271.9	3.1		55.7	7	4153	02 44 20
02 46 00	=1105+437	14 20 04	57.5	272.2	3.2		55.7	100	4166	02 44 21
02 46 00	J1058+4304	14 20 04	55.7	273.5	3.3		55.0	-21	4166	No stop
02 48 00	=1055+433	14 22 05	55.4	273.9	3.4		54.9	99	4181	02 46 01
02 48 00	WXUMA	14 22 05	56.8	273.2	3.3		55.6	-18	4181	No stop
02 50 00	---	14 24 05	56.5	273.6	3.3		55.6	102	4197	02 48 01
02 50 00	J1108+4330	14 24 05	56.9	273.0	3.2		55.6	-13	4197	No stop
02 52 00	=1105+437	14 26 05	56.6	273.4	3.3		55.6	107	4212	02 50 01
02 52 00	J1110+4403	14 26 05	57.3	273.7	3.2		56.3	-14	4212	No stop
02 54 00	=1107+443	14 28 06	57.0	274.1	3.3		56.3	106	4228	02 52 01
02 54 00	WXUMA	14 28 06	55.9	274.3	3.4		55.5	-17	4228	No stop
02 56 00	---	14 30 06	55.6	274.7	3.4		55.5	103	4243	02 54 01
02 56 20	J1108+4330	14 30 26	56.0	274.2	3.3		55.5	7	4243	02 56 20
02 58 00	=1105+437	14 32 06	55.7	274.5	3.4		55.5	100	4256	02 56 21
02 58 00	J1058+4304	14 32 06	53.9	275.7	3.5		54.7	-21	4256	No stop
03 00 00	=1055+433	14 34 07	53.6	276.1	3.6		54.7	99	4272	02 58 01
03 00 00	WXUMA	14 34 07	55.0	275.4	3.5		55.4	-18	4272	No stop
03 02 00	---	14 36 07	54.7	275.8	3.5		55.3	102	4287	03 00 01
03 02 00	J1108+4330	14 36 07	55.1	275.2	3.4		55.4	-13	4287	No stop
03 04 00	=1105+437	14 38 07	54.8	275.6	3.5		55.3	107	4303	03 02 01
03 04 00	J1110+4403	14 38 07	55.5	275.9	3.4		56.0	-14	4303	No stop
03 06 00	=1107+443	14 40 08	55.2	276.3	3.5		56.0	106	4318	03 04 01
03 06 00	WXUMA	14 40 08	54.1	276.5	3.6		55.2	-17	4318	No stop
03 08 00	---	14 42 08	53.8	276.8	3.6		55.2	103	4333	03 06 01
03 08 20	J1108+4330	14 42 28	54.2	276.3	3.5		55.2	7	4333	03 08 20
03 10 00	=1105+437	14 44 08	53.9	276.6	3.6		55.2	100	4346	03 08 21
03 10 00	J1058+4304	14 44 08	52.1	277.8	3.7		54.4	-21	4346	No stop
03 12 00	=1055+433	14 46 09	51.8	278.2	3.8		54.3	99	4362	03 10 01

Schedule for TORUN (Code Tr)

Page 21

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
03 12 00	WXUMA	14 46 09	53.2	277.5	3.7		55.0	-18	4362	No stop
03 14 00	---	14 48 09	52.9	277.9	3.7		55.0	102	4377	03 12 01
03 14 00	J1108+4330	14 48 09	53.3	277.3	3.6		55.0	-13	4377	No stop
03 16 00	=1105+437	14 50 09	53.0	277.7	3.7		55.0	107	4393	03 14 01
03 16 00	J1110+4403	14 50 09	53.7	278.0	3.6		55.7	-14	4393	No stop
03 18 00	=1107+443	14 52 10	53.4	278.4	3.7		55.6	106	4408	03 16 01
03 18 00	WXUMA	14 52 10	52.3	278.6	3.8		54.8	-17	4408	No stop
03 20 00	---	14 54 10	52.0	278.9	3.8		54.7	103	4424	03 18 01
03 20 20	J1108+4330	14 54 30	52.4	278.4	3.7		54.8	7	4424	03 20 20
03 22 00	=1105+437	14 56 10	52.1	278.7	3.8		54.8	100	4437	03 20 21
03 22 00	J1058+4304	14 56 10	50.3	279.9	3.9		53.9	-21	4437	No stop
03 24 00	=1055+433	14 58 11	50.0	280.2	4.0		53.8	99	4452	03 22 01
03 24 00	WXUMA	14 58 11	51.4	279.6	3.9		54.6	-18	4452	No stop
03 26 00	---	15 00 11	51.1	279.9	3.9		54.5	102	4467	03 24 01
03 26 00	J1108+4330	15 00 11	51.5	279.4	3.8		54.6	-12	4467	No stop
03 28 00	=1105+437	15 02 11	51.2	279.7	3.9		54.5	108	4483	03 26 01
03 28 00	J1110+4403	15 02 11	51.9	280.0	3.8		55.2	-14	4483	No stop
03 30 00	=1107+443	15 04 12	51.6	280.4	3.9		55.1	106	4498	03 28 01
03 30 00	WXUMA	15 04 12	50.5	280.6	4.0		54.3	-17	4498	No stop
03 32 00	---	15 06 12	50.2	280.9	4.0		54.3	103	4514	03 30 01
03 32 20	J1108+4330	15 06 32	50.6	280.5	3.9		54.4	8	4514	03 32 20
03 34 00	=1105+437	15 08 12	50.3	280.7	4.0		54.3	100	4527	03 32 21
03 34 00	J1058+4304	15 08 12	48.6	281.9	4.1		53.4	-21	4527	No stop
03 36 00	=1055+433	15 10 13	48.3	282.2	4.2		53.3	99	4542	03 34 01
03 36 00	WXUMA	15 10 13	49.6	281.6	4.1		54.1	-18	4542	No stop
03 38 00	---	15 12 13	49.3	281.9	4.1		54.0	102	4558	03 36 01
03 38 00	J1108+4330	15 12 13	49.8	281.4	4.0		54.1	-12	4558	No stop
03 40 00	=1105+437	15 14 13	49.5	281.7	4.1		54.0	108	4573	03 38 01
03 40 00	J1110+4403	15 14 13	50.1	282.0	4.0		54.6	-14	4573	No stop
03 42 00	=1107+443	15 16 14	49.8	282.3	4.1		54.5	106	4589	03 40 01

Schedule for TORUN (Code Tr)

Page 22

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
03 42 00	WXUMA	15 16 14	48.7	282.6	4.2		53.8	-17	4589	No stop
03 44 00	---	15 18 14	48.4	282.9	4.2		53.7	103	4604	03 42 01
03 44 20	J1108+4330	15 18 34	48.8	282.4	4.1		53.8	8	4604	03 44 20
03 46 00	=1105+437	15 20 14	48.6	282.7	4.2		53.7	100	4617	03 44 21
03 46 00	J1058+4304	15 20 14	46.8	283.9	4.3		52.8	-21	4617	No stop
03 48 00	=1055+433	15 22 15	46.5	284.2	4.4		52.7	99	4632	03 46 01
03 48 00	WXUMA	15 22 15	47.9	283.5	4.3		53.5	-18	4632	No stop
03 50 00	---	15 24 15	47.6	283.9	4.3		53.4	102	4648	03 48 01
03 50 00	J1108+4330	15 24 15	48.0	283.4	4.2		53.5	-12	4648	No stop
03 52 00	=1105+437	15 26 15	47.7	283.7	4.3		53.4	108	4663	03 50 01
03 52 00	J1110+4403	15 26 15	48.4	284.0	4.2		54.0	-14	4663	No stop
03 54 00	=1107+443	15 28 16	48.1	284.3	4.3		53.9	106	4679	03 52 01
03 54 00	WXUMA	15 28 16	47.0	284.5	4.4		53.2	-17	4679	No stop
03 56 00	---	15 30 16	46.7	284.8	4.4		53.0	103	4694	03 54 01
03 56 20	J1108+4330	15 30 36	47.1	284.4	4.3		53.2	8	4694	03 56 20
03 58 00	=1105+437	15 32 16	46.8	284.6	4.4		53.1	100	4707	03 56 21
03 58 00	J1058+4304	15 32 16	45.1	285.8	4.5		52.1	-20	4707	No stop
04 00 00	=1055+433	15 34 17	44.8	286.1	4.6		52.0	100	4723	03 58 01
04 00 00	WXUMA	15 34 17	46.1	285.5	4.5		52.8	-18	4723	No stop
04 02 00	---	15 36 17	45.8	285.8	4.5		52.7	102	4738	04 00 01
04 02 00	J1108+4330	15 36 17	46.2	285.3	4.4		52.9	-12	4738	No stop
04 04 00	=1105+437	15 38 17	45.9	285.6	4.5		52.7	108	4753	04 02 01
04 04 00	J1110+4403	15 38 17	46.6	285.9	4.4		53.3	-14	4753	No stop
04 06 00	=1107+443	15 40 18	46.3	286.2	4.5		53.2	106	4769	04 04 01
04 06 00	WXUMA	15 40 18	45.2	286.4	4.6		52.5	-17	4769	No stop
04 08 00	---	15 42 18	44.9	286.7	4.6		52.3	103	4784	04 06 01
04 08 20	J1108+4330	15 42 38	45.3	286.3	4.5		52.5	8	4784	04 08 20
04 10 00	=1105+437	15 44 18	45.1	286.5	4.6		52.4	100	4797	04 08 21
04 10 00	J1058+4304	15 44 18	43.3	287.7	4.7		51.4	-20	4797	No stop
04 12 00	=1055+433	15 46 19	43.0	288.0	4.8		51.3	100	4813	04 10 01

Schedule for TORUN (Code Tr)

Page 23

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
04 12 00	WXUMA	15 46 19	44.4	287.4	4.7		52.1	-18	4813	No stop
04 14 00	---	15 48 19	44.1	287.7	4.7		52.0	102	4828	04 12 01
04 14 00	J1108+4330	15 48 19	44.5	287.2	4.6		52.1	-12	4828	No stop
04 16 00	=1105+437	15 50 19	44.2	287.5	4.7		52.0	108	4844	04 14 01
04 16 00	J1110+4403	15 50 19	44.9	287.7	4.6		52.6	-14	4844	No stop
04 18 00	=1107+443	15 52 20	44.6	288.0	4.7		52.5	106	4859	04 16 01
04 18 00	WXUMA	15 52 20	43.5	288.3	4.8		51.7	-17	4859	No stop
04 20 00	---	15 54 20	43.2	288.6	4.8		51.6	103	4875	04 18 01
04 20 20	J1108+4330	15 54 40	43.6	288.2	4.8		51.7	8	4875	04 20 20
04 22 00	=1105+437	15 56 20	43.4	288.4	4.8		51.6	100	4887	04 20 21
04 22 00	J1058+4304	15 56 20	41.6	289.6	5.0		50.6	-20	4887	No stop
04 24 00	=1055+433	15 58 20	41.3	289.9	5.0		50.5	100	4903	04 22 01
04 24 00	WXUMA	15 58 20	42.7	289.2	4.9		51.3	-18	4903	No stop
04 26 00	---	16 00 21	42.4	289.5	4.9		51.2	102	4918	04 24 01
04 26 00	J1108+4330	16 00 21	42.8	289.0	4.8		51.4	-12	4918	No stop
04 28 00	=1105+437	16 02 21	42.5	289.4	4.9		51.2	108	4934	04 26 01
04 28 00	J1110+4403	16 02 21	43.2	289.6	4.8		51.8	-14	4934	No stop
04 30 00	=1107+443	16 04 21	42.9	289.9	4.9		51.6	106	4949	04 28 01
04 30 00	WXUMA	16 04 21	41.8	290.1	5.0		50.9	-17	4949	No stop
04 32 00	---	16 06 22	41.5	290.5	5.0		50.8	103	4965	04 30 01
04 32 20	J1108+4330	16 06 42	41.9	290.0	5.0		50.9	8	4965	04 32 20
04 34 00	=1105+437	16 08 22	41.7	290.3	5.0		50.8	100	4978	04 32 21
04 34 00	J1058+4304	16 08 22	39.9	291.4	5.2		49.8	-20	4978	No stop
04 36 00	=1055+433	16 10 22	39.6	291.7	5.2		49.7	100	4993	04 34 01
04 36 00	WXUMA	16 10 22	41.0	291.1	5.1		50.5	-18	4993	No stop
04 38 00	---	16 12 23	40.7	291.4	5.1		50.3	102	5008	04 36 01
04 38 00	J1108+4330	16 12 23	41.1	290.9	5.0		50.5	-12	5008	No stop
04 40 00	=1105+437	16 14 23	40.8	291.2	5.1		50.4	108	5024	04 38 01
04 40 00	J1110+4403	16 14 23	41.5	291.4	5.0		50.9	-14	5024	No stop
04 42 00	=1107+443	16 16 23	41.2	291.7	5.1		50.8	106	5039	04 40 01

Schedule for TORUN (Code Tr)

Page 24

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
04 42 00	WXUMA	16 16 23	40.1	292.0	5.2		50.0	-17	5039	No stop
04 44 00	---	16 18 24	39.8	292.3	5.2		49.9	103	5055	04 42 01
04 44 20	J1108+4330	16 18 44	40.2	291.9	5.2		50.1	8	5055	04 44 20
04 46 00	=1105+437	16 20 24	40.0	292.1	5.2		50.0	100	5068	04 44 21
04 46 00	J1058+4304	16 20 24	38.3	293.3	5.4		48.9	-20	5068	No stop
04 48 00	=1055+433	16 22 24	38.0	293.6	5.4		48.8	100	5083	04 46 01
04 48 00	WXUMA	16 22 24	39.3	292.9	5.3		49.6	-18	5083	No stop
04 50 00	---	16 24 25	39.0	293.2	5.3		49.4	102	5099	04 48 01
04 50 00	J1108+4330	16 24 25	39.4	292.7	5.2		49.7	-12	5099	No stop
04 52 00	=1105+437	16 26 25	39.1	293.0	5.3		49.5	108	5114	04 50 01
04 52 00	J1110+4403	16 26 25	39.8	293.2	5.2		50.0	-14	5114	No stop
04 54 00	=1107+443	16 28 25	39.5	293.5	5.3		49.9	106	5130	04 52 01
04 54 00	WXUMA	16 28 25	38.5	293.8	5.4		49.1	-17	5130	No stop
04 56 00	---	16 30 26	38.2	294.1	5.4		49.0	103	5145	04 54 01
04 56 20	J1108+4330	16 30 46	38.5	293.7	5.4		49.2	8	5145	04 56 20
04 58 00	=1105+437	16 32 26	38.3	294.0	5.4		49.0	100	5158	04 56 21
04 58 00	J1058+4304	16 32 26	36.6	295.1	5.6		48.0	-20	5158	No stop
05 00 00	=1055+433	16 34 26	36.3	295.4	5.6		47.8	100	5173	04 58 01
05 00 00	WXUMA	16 34 26	37.6	294.7	5.5		48.7	-18	5173	No stop
05 02 00	---	16 36 27	37.4	295.0	5.5		48.5	102	5189	05 00 01
05 02 00	J1108+4330	16 36 27	37.8	294.6	5.4		48.7	-12	5189	No stop
05 04 00	=1105+437	16 38 27	37.5	294.9	5.5		48.6	108	5204	05 02 01
05 04 00	J1110+4403	16 38 27	38.2	295.0	5.4		49.1	-14	5204	No stop
05 06 00	=1107+443	16 40 27	37.9	295.3	5.5		48.9	106	5220	05 04 01
05 06 00	WXUMA	16 40 27	36.8	295.6	5.6		48.2	-17	5220	No stop
05 08 00	---	16 42 28	36.5	295.9	5.6		48.0	103	5235	05 06 01
05 08 20	J1108+4330	16 42 48	36.9	295.5	5.6		48.2	8	5235	05 08 20
05 10 00	=1105+437	16 44 28	36.7	295.8	5.6		48.1	100	5248	05 08 21
05 10 00	J1058+4304	16 44 28	35.0	296.9	5.8		47.0	-20	5248	No stop
05 12 00	=1055+433	16 46 28	34.7	297.3	5.8		46.8	100	5264	05 10 01

Schedule for TORUN (Code Tr) Page 25

EB089 second epoch WX Uma Astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
05 12 00	WXUMA	16 46 28	36.0	296.6	5.7		47.7	-18	5264	No stop
05 14 00	---	16 48 29	35.7	296.9	5.7		47.5	102	5279	05 12 01
05 14 00	J1108+4330	16 48 29	36.1	296.4	5.6		47.8	-12	5279	No stop
05 16 00	=1105+437	16 50 29	35.9	296.7	5.7		47.6	108	5294	05 14 01
05 16 00	J1110+4403	16 50 29	36.5	296.8	5.6		48.1	-14	5294	No stop
05 18 00	=1107+443	16 52 29	36.3	297.1	5.7		47.9	106	5310	05 16 01
05 18 00	WXUMA	16 52 29	35.2	297.5	5.8		47.2	-17	5310	No stop
05 20 00	---	16 54 30	34.9	297.8	5.8		47.0	103	5325	05 18 01
05 20 20	J1108+4330	16 54 50	35.3	297.3	5.8		47.2	8	5325	05 20 20
05 22 00	=1105+437	16 56 30	35.1	297.6	5.8		47.1	100	5338	05 20 21
05 22 00	J1058+4304	16 56 30	33.4	298.8	6.0		46.0	-20	5338	No stop
05 24 00	=1055+433	16 58 30	33.1	299.1	6.0		45.8	100	5354	05 22 01
05 24 00	WXUMA	16 58 30	34.4	298.4	5.9		46.7	-18	5354	No stop
05 26 00	---	17 00 31	34.1	298.7	5.9		46.5	102	5369	05 24 01
05 26 00	J1108+4330	17 00 31	34.5	298.2	5.8		46.7	-12	5369	No stop
05 28 00	=1105+437	17 02 31	34.3	298.5	5.9		46.6	108	5385	05 26 01
05 28 00	J1110+4403	17 02 31	34.9	298.6	5.8		47.0	-14	5385	No stop
05 30 00	=1107+443	17 04 31	34.7	298.9	5.9		46.9	106	5400	05 28 01

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

Setup group: 11	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 8 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 8

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* WXUMA	11 02 32.855455	* 11 05 22.043790	11 06 37.870285	0.00
	43 47 51.38932	* 43 31 39.30502	43 24 25.56879	0.00
* J1105+4428	11 02 54.687446	* 11 05 44.292500	11 07 00.329801	0.00
	44 44 42.93345	* 44 28 30.46500	44 21 16.56591	0.00
* 4C39.25	09 23 55.319216	* 09 27 03.013937	09 28 26.760151	0.31
J0927+3902	39 15 23.56644	* 39 02 20.85185	38 56 35.38836	0.16
0923+392	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J0927+39	GSFC 2016a X/S astro solution, 250526 observations.			
1055+433	10 55 12.034150	* 10 58 02.920796	10 59 19.481253	0.11
* J1058+4304	43 20 45.33545	* 43 04 41.50524	42 57 31.81522	0.10
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 155 observations.			
1105+437	11 05 35.113886	* 11 08 23.476922	11 09 38.939830	0.11
* J1108+4330	43 47 08.86379	* 43 30 53.65748	43 23 38.36885	0.11
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 174 observations.			
1107+443	11 07 58.361505	* 11 10 46.345775	11 12 01.657429	0.13
* J1110+4403	44 19 43.46615	* 44 03 25.92554	43 56 09.48236	0.13
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 216 observations.			
* 0Q208	14 04 45.615156	* 14 07 00.394415	14 08 00.268707	0.24
J1407+2827	28 41 29.23515	* 28 27 14.69019	28 20 44.93753	0.35
1404+286	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1407+28	GSFC 2016a X/S astro solution, 68278 observations.			

ev024atr

E-EVN: EV024A
PI: Vaddi

Address: Arecibo Observatory

Observing mode: 18cm continuum, multiple phase center correlation

Schedule for TORUN (Code Tr) Page 2
e-EVN: EV024A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop			Early	Disk	TPStart			
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
Next scan frequencies: 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49										
Next BBC frequencies: 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51										
Next scan bandwidths: 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00										

08 30 00	0133+476	20 05 01	39.8	60.0	-5.6		-51.0	0	0	08 30 00
08 35 00	---	20 10 02	40.5	60.7	-5.5		-51.5	300	39	08 30 01

08 37 00	UGC1837	20 12 02	31.5	58.8	-6.2		-44.7	72	39	08 37 00
08 50 00	---	20 25 04	33.2	60.8	-6.0		-45.9	780	139	08 37 01

08 50 30	UGC1837	20 25 34	33.3	60.8	-6.0		-45.9	24	139	08 50 30
09 05 00	---	20 40 07	35.2	63.1	-5.7		-47.2	870	251	08 50 31

09 05 30	UGC1837	20 40 37	35.3	63.1	-5.7		-47.2	24	251	09 05 30
09 20 00	---	20 55 09	37.2	65.3	-5.5		-48.4	870	363	09 05 31

09 20 30	UGC1837	20 55 39	37.3	65.4	-5.5		-48.4	24	363	09 20 30
09 35 00	---	21 10 12	39.3	67.6	-5.2		-49.5	870	475	09 20 31

09 35 30	UGC1837	21 10 42	39.4	67.7	-5.2		-49.6	24	475	09 35 30
09 50 00	---	21 25 14	41.4	69.9	-5.0		-50.6	870	587	09 35 31

09 50 30	UGC1837	21 25 44	41.5	70.0	-5.0		-50.6	24	587	09 50 30
10 05 00	---	21 40 17	43.6	72.3	-4.7		-51.6	870	699	09 50 31

10 05 30	UGC1837	21 40 47	43.6	72.4	-4.7		-51.6	24	699	10 05 30
10 20 00	---	21 55 19	45.7	74.7	-4.5		-52.5	870	812	10 05 31

10 20 30	UGC1837	21 55 49	45.8	74.7	-4.5		-52.5	24	812	10 20 30
10 35 00	---	22 10 21	47.9	77.1	-4.2		-53.3	870	924	10 20 31

10 35 30	UGC1837	22 10 52	48.0	77.2	-4.2		-53.3	24	924	10 35 30
10 50 00	---	22 25 24	50.1	79.6	-4.0		-54.0	870	1036	10 35 31

10 50 30	UGC1837	22 25 54	50.2	79.6	-4.0		-54.0	24	1036	10 50 30
11 05 00	---	22 40 26	52.4	82.1	-3.7		-54.6	870	1148	10 50 31

11 05 30	UGC1837	22 40 56	52.4	82.2	-3.7		-54.6	24	1148	11 05 30
11 20 00	---	22 55 29	54.6	84.8	-3.5		-55.0	870	1260	11 05 31

11 20 30	UGC1837	22 55 59	54.7	84.9	-3.5		-55.0	24	1260	11 20 30
11 35 00	---	23 10 31	56.8	87.6	-3.2		-55.3	870	1372	11 20 31

Schedule for TORUN (Code Tr)
e-EVN: EVO24A

Page 3

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC	

---	Fri 25 Feb 2022	Day	56	---							
11 35 30	UGC1837	23 11 01	56.9	87.7	-3.2		-55.3	24	1372	11 35 30	
11 50 00	---	23 25 34	59.1	90.5	-3.0		-55.3	870	1484	11 35 31	
11 50 30	UGC1837	23 26 04	59.2	90.6	-3.0		-55.3	24	1484	11 50 30	
12 05 00	---	23 40 36	61.4	93.7	-2.7		-55.2	870	1596	11 50 31	
12 05 30	UGC1837	23 41 06	61.4	93.8	-2.7		-55.2	24	1596	12 05 30	
12 20 00	---	23 55 39	63.6	97.1	-2.5		-54.7	870	1708	12 05 31	
12 20 30	UGC1837	23 56 09	63.7	97.2	-2.5		-54.7	24	1708	12 20 30	
12 35 00	---	00 10 41	65.8	100.8	-2.2		-53.9	870	1820	12 20 31	
12 37 00	0133+476	00 12 41	75.5	102.1	-1.4		-61.3	70	1820	12 37 00	
12 42 00	---	00 17 42	76.3	103.8	-1.3		-60.6	300	1859	12 37 01	
12 44 00	UGC1837	00 19 43	67.2	103.3	-2.1		-53.2	71	1859	12 44 00	
12 57 00	---	00 32 45	69.1	107.2	-1.9		-51.8	780	1959	12 44 01	
12 57 30	UGC1837	00 33 15	69.1	107.3	-1.9		-51.7	24	1959	12 57 30	
13 12 00	---	00 47 47	71.2	112.3	-1.6		-49.6	870	2071	12 57 31	
13 12 30	UGC1837	00 48 17	71.2	112.5	-1.6		-49.5	24	2071	13 12 30	
13 27 00	---	01 02 50	73.2	118.3	-1.4		-46.4	870	2183	13 12 31	
13 27 30	UGC1837	01 03 20	73.3	118.5	-1.4		-46.3	23	2183	13 27 30	
13 42 00	---	01 17 52	75.1	125.5	-1.1		-42.0	870	2296	13 27 31	
13 42 30	UGC1837	01 18 22	75.2	125.8	-1.1		-41.9	23	2296	13 42 30	
13 57 00	---	01 32 55	76.9	134.3	-0.9		-36.0	870	2408	13 42 31	
13 57 30	UGC1837	01 33 25	76.9	134.7	-0.8		-35.8	23	2408	13 57 30	
14 12 00	---	01 47 57	78.3	145.2	-0.6		-28.0	870	2520	13 57 31	
14 12 30	UGC1837	01 48 27	78.4	145.6	-0.6		-27.7	23	2520	14 12 30	
14 27 00	---	02 03 00	79.4	158.3	-0.4		-17.7	870	2632	14 12 31	
14 27 30	UGC1837	02 03 30	79.4	158.8	-0.3		-17.3	22	2632	14 27 30	
14 42 00	---	02 18 02	80.0	173.4	-0.1		-5.4	870	2744	14 27 31	
14 42 30	UGC1837	02 18 32	80.0	173.9	-0.1		-5.0	22	2744	14 42 30	
14 57 00	---	02 33 04	79.9	189.1	0.1		7.5	870	2856	14 42 31	
14 57 30	UGC1837	02 33 35	79.9	189.7	0.2		7.9	22	2856	14 57 30	
15 12 00	---	02 48 07	79.3	203.9	0.4		19.5	870	2968	14 57 31	
15 12 30	UGC1837	02 48 37	79.2	204.4	0.4		19.9	22	2968	15 12 30	
15 27 00	---	03 03 09	78.1	216.7	0.6		29.5	870	3080	15 12 31	

Schedule for TORUN (Code Tr)

Page 4

e-EVN: EVO24A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC	

---	Fri 25 Feb 2022	Day	56	---							
15 27 30	UGC1837	03 03 39	78.1	217.1	0.7		29.7	23	3080	15 27 30	
15 42 00	---	03 18 12	76.6	227.2	0.9		37.1	870	3192	15 27 31	
15 42 30	UGC1837	03 18 42	76.6	227.5	0.9		37.4	23	3192	15 42 30	
15 57 00	---	03 33 14	74.8	235.8	1.1		42.8	870	3304	15 42 31	
15 57 30	UGC1837	03 33 44	74.8	236.0	1.2		43.0	23	3304	15 57 30	
16 12 00	---	03 48 17	72.9	242.8	1.4		47.0	870	3416	15 57 31	
16 12 30	UGC1837	03 48 47	72.8	243.0	1.4		47.1	23	3416	16 12 30	
16 27 00	---	04 03 19	70.8	248.6	1.6		50.0	870	3528	16 12 31	
16 27 30	UGC1837	04 03 49	70.8	248.8	1.7		50.1	24	3528	16 27 30	
16 42 00	---	04 18 22	68.7	253.6	1.9		52.1	870	3640	16 27 31	
16 42 30	UGC1837	04 18 52	68.6	253.7	1.9		52.2	24	3640	16 42 30	
16 57 00	---	04 33 24	66.5	257.9	2.2		53.6	870	3753	16 42 31	
16 57 30	UGC1837	04 33 54	66.4	258.1	2.2		53.6	24	3753	16 57 30	
17 12 00	---	04 48 27	64.3	261.8	2.4		54.5	870	3865	16 57 31	
17 15 00	0133+476	04 51 27	59.5	280.2	3.2		62.0	129	3865	17 15 00	
17 20 00	---	04 56 28	58.7	281.0	3.3		61.7	300	3903	17 15 01	
17 23 00	UGC1837	04 59 28	62.7	264.4	2.6		55.0	131	3903	17 23 00	
17 36 00	---	05 12 31	60.7	267.3	2.8		55.3	780	4004	17 23 01	
17 36 30	UGC1837	05 13 01	60.6	267.4	2.8		55.3	24	4004	17 36 30	
17 51 00	---	05 27 33	58.4	270.4	3.1		55.3	870	4116	17 36 31	
17 51 30	UGC1837	05 28 03	58.4	270.5	3.1		55.3	24	4116	17 51 30	
18 06 00	---	05 42 36	56.2	273.3	3.3		55.2	870	4228	17 51 31	
18 06 30	UGC1837	05 43 06	56.1	273.4	3.3		55.2	24	4228	18 06 30	
18 21 00	---	05 57 38	53.9	276.0	3.6		54.9	870	4340	18 06 31	
18 21 30	UGC1837	05 58 08	53.9	276.1	3.6		54.9	24	4340	18 21 30	
18 36 00	---	06 12 40	51.7	278.6	3.8		54.4	870	4452	18 21 31	
18 36 30	UGC1837	06 13 11	51.6	278.7	3.8		54.4	24	4452	18 36 30	
18 51 00	---	06 27 43	49.5	281.2	4.1		53.8	870	4564	18 36 31	
18 51 30	UGC1837	06 28 13	49.4	281.3	4.1		53.8	24	4564	18 51 30	
19 06 00	---	06 42 45	47.3	283.6	4.3		53.1	870	4676	18 51 31	

Schedule for TORUN (Code Tr)
 e-EVN: EVO24A

Page 5

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
 Early: Seconds between end of slew and start. Dwell: On source seconds.
 Disk: GBytes recorded to this point.
 TPStart: Recording start time. Frequencies are L0 sum (band edge).
 SYNC: Time correlator is expected to sync up.

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Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 25 Feb 2022 Day 56 ---										
19 06 30	UGC1837	06 43 15	47.2	283.7	4.3		53.0	24	4676	19 06 30
19 21 00	---	06 57 48	45.1	286.0	4.6		52.2	870	4788	19 06 31
19 21 30	UGC1837	06 58 18	45.0	286.1	4.6		52.2	24	4788	19 21 30
19 36 00	---	07 12 50	42.9	288.4	4.8		51.3	870	4900	19 21 31
19 36 30	UGC1837	07 13 20	42.9	288.5	4.8		51.3	24	4900	19 36 30
19 51 00	---	07 27 53	40.8	290.7	5.1		50.3	870	5012	19 36 31
19 51 30	UGC1837	07 28 23	40.7	290.8	5.1		50.3	24	5012	19 51 30
20 06 00	---	07 42 55	38.7	293.0	5.3		49.2	870	5124	19 51 31
20 06 30	UGC1837	07 43 25	38.6	293.1	5.3		49.2	24	5124	20 06 30
20 21 00	---	07 57 58	36.6	295.3	5.6		48.0	870	5237	20 06 31
20 23 00	0133+476	07 59 58	33.8	306.7	6.4		46.0	83	5237	20 23 00
20 28 00	---	08 04 59	33.2	307.4	6.4		45.4	300	5275	20 23 01

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```

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

Setup group: 11	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 8 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 8

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
* UGC1837	02 19 48.791419	* 02 22 58.460000	02 24 20.702374	0.00
	42 47 06.06237	* 43 00 43.26000	43 06 47.86731	0.00
* 0133+476	01 33 55.103060	* 01 36 58.594805	01 38 17.702246	0.00
J0136+4751	47 36 12.85364	* 47 51 29.10003	47 58 16.83605	0.00
J0136+47	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 193511 observations.			

em161atr

EM161A
PI: *Marcote*

Address: JIVE

Schedule for TORUN (Code Tr)

Page 2

EM161A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sat 26 Feb 2022 Day 57 ---										
Next scan frequencies: 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49										
Next BBC frequencies: 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51										
Next scan bandwidths: 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00										

01 30 00	J1550+0527	13 07 48	31.8	129.8	-2.7		-27.6	0	0	01 30 00
01 34 00	=1548+056	13 11 49	32.2	130.9	-2.7		-27.1	240	31	01 30 01
01 36 20	J1605-1139	13 14 10	15.5	136.0	-2.9		-25.2	63	31	01 36 20
01 37 50	=1602-115	13 15 40	15.6	136.4	-2.8		-25.0	90	43	01 36 21
01 37 50	FRB190520	13 15 40	16.3	137.0	-2.8		-24.7	-15	43	No stop
01 42 20	---	13 20 10	16.8	138.0	-2.7		-24.2	255	77	01 37 51
01 42 50	J1605-1139	13 20 41	16.2	137.6	-2.8		-24.5	16	77	01 42 50
01 44 00	=1602-115	13 21 51	16.3	137.8	-2.7		-24.3	70	86	01 42 51
01 44 00	FRB190520	13 21 51	16.9	138.4	-2.7		-24.0	-14	86	No stop
01 48 30	---	13 26 22	17.4	139.5	-2.6		-23.4	256	121	01 44 01
01 48 30	J1605-1139	13 26 22	16.7	138.9	-2.7		-23.8	-14	121	No stop
01 50 20	=1602-115	13 28 12	16.9	139.3	-2.6		-23.6	96	135	01 48 31
01 50 20	FRB190520	13 28 12	17.6	139.9	-2.6		-23.2	-14	135	No stop
01 54 50	---	13 32 43	18.0	141.0	-2.5		-22.7	256	170	01 50 21
01 55 20	J1605-1139	13 33 13	17.4	140.5	-2.6		-23.0	16	170	01 55 20
01 56 30	=1602-115	13 34 23	17.5	140.8	-2.5		-22.8	70	179	01 55 21
01 56 30	J1603-1007	13 34 23	19.1	140.6	-2.5		-22.8	-20	179	No stop
02 01 00	=1600-099	13 38 54	19.5	141.7	-2.4		-22.2	250	214	01 56 31
02 01 00	J1605-1139	13 38 54	17.9	141.8	-2.5		-22.3	-20	214	No stop
02 02 50	=1602-115	13 40 44	18.1	142.3	-2.4		-22.0	90	228	02 01 01
02 02 50	FRB190520	13 40 44	18.7	142.9	-2.4		-21.7	-14	228	No stop
02 07 20	---	13 45 15	19.1	144.0	-2.3		-21.1	256	263	02 02 51
02 07 50	J1605-1139	13 45 45	18.5	143.5	-2.3		-21.4	16	263	02 07 50
02 09 00	=1602-115	13 46 55	18.7	143.8	-2.3		-21.3	70	272	02 07 51
02 09 00	FRB190520	13 46 55	19.3	144.4	-2.3		-20.9	-14	272	No stop
02 13 30	---	13 51 26	19.7	145.5	-2.2		-20.3	256	307	02 09 01

Schedule for TORUN (Code Tr)

Page 3

EM161A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC	

---	Sat 26 Feb 2022	Day	57	---							
02 13 30	J1605-1139	13 51 26	19.0	144.8	-2.3		-20.7	-14	307	No stop	
02 15 20	=1602-115	13 53 16	19.2	145.3	-2.2		-20.4	96	321	02 13 31	
02 15 20	FRB190520	13 53 16	19.8	145.9	-2.2		-20.1	-14	321	No stop	
02 19 50	---	13 57 47	20.2	147.0	-2.1		-19.5	256	356	02 15 21	
02 20 20	J1605-1139	13 58 17	19.6	146.5	-2.1		-19.8	16	356	02 20 20	
02 21 30	=1602-115	13 59 27	19.7	146.8	-2.1		-19.6	70	365	02 20 21	
02 21 30	FRB190520	13 59 27	20.3	147.5	-2.1		-19.2	-14	365	No stop	
02 26 00	---	14 03 58	20.7	148.6	-2.0		-18.6	256	399	02 21 31	
02 26 00	J1605-1139	14 03 58	20.1	147.9	-2.0		-19.0	-14	399	No stop	
02 27 50	=1602-115	14 05 48	20.2	148.4	-2.0		-18.8	96	414	02 26 01	
02 27 50	FRB190520	14 05 48	20.8	149.0	-2.0		-18.4	-14	414	No stop	
02 32 20	---	14 10 19	21.2	150.2	-1.9		-17.7	256	448	02 27 51	
02 32 50	J1605-1139	14 10 49	20.6	149.6	-1.9		-18.1	16	448	02 32 50	
02 34 00	=1602-115	14 11 59	20.7	149.9	-1.9		-17.9	70	457	02 32 51	
02 34 00	J1603-1007	14 11 59	22.3	149.9	-1.9		-17.8	-20	457	No stop	
02 38 30	=1600-099	14 16 30	22.7	151.0	-1.8		-17.2	250	492	02 34 01	
02 38 30	J1605-1139	14 16 30	21.0	151.0	-1.8		-17.3	-20	492	No stop	
02 40 20	=1602-115	14 18 20	21.2	151.5	-1.8		-17.0	90	506	02 38 31	
02 40 20	FRB190520	14 18 20	21.8	152.2	-1.7		-16.6	-14	506	No stop	
02 44 50	---	14 22 51	22.1	153.3	-1.7		-16.0	256	541	02 40 21	
02 45 20	J1605-1139	14 23 21	21.5	152.7	-1.7		-16.3	16	541	02 45 20	
02 46 30	=1602-115	14 24 31	21.6	153.0	-1.7		-16.1	70	550	02 45 21	
02 46 30	FRB190520	14 24 31	22.2	153.8	-1.6		-15.7	-14	550	No stop	
02 51 00	---	14 29 02	22.5	154.9	-1.6		-15.1	256	585	02 46 31	
02 51 00	J1605-1139	14 29 02	21.9	154.2	-1.6		-15.5	-14	585	No stop	
02 52 50	=1602-115	14 30 52	22.0	154.7	-1.6		-15.2	96	599	02 51 01	
02 52 50	FRB190520	14 30 52	22.6	155.4	-1.5		-14.8	-14	599	No stop	
02 57 20	---	14 35 23	22.9	156.5	-1.5		-14.1	256	634	02 52 51	
02 57 50	J1605-1139	14 35 53	22.3	155.9	-1.5		-14.5	16	634	02 57 50	
02 59 00	=1602-115	14 37 03	22.4	156.2	-1.5		-14.3	70	643	02 57 51	
02 59 00	FRB190520	14 37 03	23.0	157.0	-1.4		-13.9	-14	643	No stop	
03 03 30	---	14 41 34	23.2	158.1	-1.4		-13.2	256	678	02 59 01	

Schedule for TORUN (Code Tr)

Page 4

EM161A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
03 03 30	J1605-1139	14 41 34	22.7	157.4	-1.4		-13.6	-13	678	No stop
03 05 20	=1602-115	14 43 24	22.8	157.9	-1.4		-13.4	97	692	03 03 31
03 05 20	FRB190520	14 43 24	23.3	158.6	-1.3		-12.9	-14	692	No stop
03 09 50	---	14 47 55	23.6	159.8	-1.3		-12.2	256	727	03 05 21
03 10 20	J1605-1139	14 48 25	23.1	159.2	-1.3		-12.6	17	727	03 10 20
03 11 30	=1602-115	14 49 35	23.1	159.5	-1.3		-12.4	70	736	03 10 21
03 11 30	J1603-1007	14 49 35	24.7	159.6	-1.2		-12.3	-20	736	No stop
03 16 00	=1600-099	14 54 06	25.0	160.8	-1.2		-11.6	250	770	03 11 31
03 16 00	J1605-1139	14 54 06	23.4	160.6	-1.2		-11.7	-20	770	No stop
03 17 50	=1602-115	14 55 56	23.4	161.1	-1.2		-11.4	90	785	03 16 01
03 17 50	FRB190520	14 55 56	24.0	161.9	-1.1		-11.0	-13	785	No stop
03 22 20	---	15 00 27	24.2	163.1	-1.0		-10.3	257	819	03 17 51
03 22 50	J1605-1139	15 00 57	23.7	162.4	-1.1		-10.7	17	819	03 22 50
03 24 00	=1602-115	15 02 07	23.7	162.7	-1.1		-10.5	70	828	03 22 51
03 24 00	FRB190520	15 02 07	24.2	163.5	-1.0		-10.0	-13	828	No stop
03 28 30	---	15 06 38	24.4	164.7	-0.9		-9.3	257	863	03 24 01
03 28 30	J1605-1139	15 06 38	23.9	163.9	-1.0		-9.8	-13	863	No stop
03 30 20	=1602-115	15 08 28	24.0	164.4	-1.0		-9.5	97	877	03 28 31
03 30 20	FRB190520	15 08 28	24.5	165.2	-0.9		-9.0	-13	877	No stop
03 34 50	---	15 12 59	24.7	166.4	-0.8		-8.3	257	912	03 30 21
03 35 20	J1605-1139	15 13 29	24.2	165.8	-0.9		-8.7	17	912	03 35 20
03 36 30	=1602-115	15 14 39	24.2	166.1	-0.9		-8.5	70	921	03 35 21
03 36 30	FRB190520	15 14 39	24.7	166.9	-0.8		-8.0	-13	921	No stop
03 41 00	---	15 19 10	24.9	168.1	-0.7		-7.3	257	956	03 36 31
03 41 00	J1605-1139	15 19 10	24.4	167.3	-0.8		-7.8	-13	956	No stop
03 42 50	=1602-115	15 21 00	24.5	167.8	-0.8		-7.5	97	970	03 41 01
03 42 50	FRB190520	15 21 00	24.9	168.6	-0.7		-7.0	-13	970	No stop
03 47 20	---	15 25 31	25.0	169.8	-0.6		-6.2	257	1005	03 42 51
03 47 50	J1605-1139	15 26 01	24.6	169.1	-0.7		-6.7	17	1005	03 47 50
03 49 00	=1602-115	15 27 11	24.6	169.4	-0.7		-6.5	70	1014	03 47 51

Schedule for TORUN (Code Tr)

Page 5

EM161A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sat 26 Feb 2022 Day 57 ---										
03 49 00	J1603-1007	15 27 11	26.2	169.8	-0.6		-6.2	-20	1014	No stop
03 53 30	=1600-099	15 31 42	26.3	171.0	-0.5		-5.5	250	1049	03 49 01
03 53 30	J1605-1139	15 31 42	24.8	170.6	-0.6		-5.7	-19	1049	No stop
03 55 20	=1602-115	15 33 32	24.8	171.1	-0.5		-5.4	91	1063	03 53 31
03 55 20	FRB190520	15 33 32	25.2	171.9	-0.5		-4.9	-13	1063	No stop
03 59 50	---	15 38 03	25.3	173.2	-0.4		-4.2	257	1098	03 55 21
04 00 20	J1605-1139	15 38 33	24.9	172.5	-0.5		-4.6	17	1098	04 00 20
04 01 30	=1602-115	15 39 43	24.9	172.8	-0.4		-4.4	70	1107	04 00 21
04 01 30	FRB190520	15 39 43	25.4	173.6	-0.4		-3.9	-13	1107	No stop
04 06 00	---	15 44 14	25.4	174.8	-0.3		-3.2	257	1141	04 01 31
04 06 00	J1605-1139	15 44 14	25.0	174.0	-0.4		-3.7	-13	1141	No stop
04 07 50	=1602-115	15 46 04	25.0	174.5	-0.3		-3.4	97	1156	04 06 01
04 10 10	J1550+0527	15 48 25	42.3	178.9	-0.1		-0.7	61	1156	04 10 10
04 14 10	=1548+056	15 52 25	42.3	180.3	0.0		0.2	240	1186	04 10 11
04 16 10	J1605-1139	15 54 26	25.1	176.7	-0.2		-2.0	42	1186	04 16 10
04 17 40	=1602-115	15 55 56	25.1	177.1	-0.2		-1.8	90	1198	04 16 11
04 17 40	FRB190520	15 55 56	25.5	178.0	-0.1		-1.2	-13	1198	No stop
04 22 10	---	16 00 27	25.6	179.2	-0.0		-0.5	257	1233	04 17 41
04 22 40	J1605-1139	16 00 57	25.2	178.5	-0.1		-0.9	17	1233	04 22 40
04 23 50	=1602-115	16 02 07	25.2	178.8	-0.1		-0.7	70	1242	04 22 41
04 23 50	FRB190520	16 02 07	25.6	179.7	-0.0		-0.2	-14	1242	No stop
04 28 20	---	16 06 38	25.6	180.9	0.1		0.6	256	1277	04 23 51
04 28 20	J1605-1139	16 06 38	25.2	180.0	0.0		0.0	-13	1277	No stop
04 30 10	=1602-115	16 08 28	25.2	180.5	0.0		0.3	97	1291	04 28 21
04 30 10	FRB190520	16 08 28	25.5	181.4	0.1		0.9	-14	1291	No stop
04 34 40	---	16 12 59	25.5	182.6	0.2		1.6	256	1326	04 30 11
04 35 10	J1605-1139	16 13 29	25.2	181.9	0.1		1.2	17	1326	04 35 10
04 36 20	=1602-115	16 14 39	25.2	182.2	0.1		1.4	70	1335	04 35 11
04 36 20	J1603-1007	16 14 39	26.7	182.8	0.2		1.7	-19	1335	No stop
04 40 50	=1600-099	16 19 10	26.6	184.0	0.2		2.5	251	1369	04 36 21

Schedule for TORUN (Code Tr)

Page 6

EM161A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sat 26 Feb 2022 Day 57 ---										
04 40 50	J1605-1139	16 19 10	25.1	183.4	0.2		2.1	-19	1369	No stop
04 42 40	=1602-115	16 21 00	25.1	183.9	0.2		2.4	91	1384	04 40 51
04 42 40	FRB190520	16 21 00	25.4	184.8	0.3		2.9	-14	1384	No stop
04 47 10	---	16 25 31	25.4	186.0	0.4		3.7	256	1418	04 42 41
04 47 40	J1605-1139	16 26 01	25.1	185.3	0.3		3.2	17	1418	04 47 40
04 48 50	=1602-115	16 27 11	25.0	185.6	0.3		3.4	70	1427	04 47 41
04 48 50	FRB190520	16 27 11	25.4	186.5	0.4		4.0	-14	1427	No stop
04 53 20	---	16 31 42	25.3	187.7	0.5		4.7	256	1462	04 48 51
04 53 20	J1605-1139	16 31 42	25.0	186.8	0.4		4.2	-13	1462	No stop
04 55 10	=1602-115	16 33 32	24.9	187.3	0.5		4.5	97	1476	04 53 21
04 55 10	FRB190520	16 33 32	25.2	188.2	0.5		5.0	-14	1476	No stop
04 59 40	---	16 38 03	25.1	189.4	0.6		5.8	256	1511	04 55 11
05 00 10	J1605-1139	16 38 33	24.8	188.6	0.5		5.3	17	1511	05 00 10
05 01 20	=1602-115	16 39 43	24.8	189.0	0.6		5.5	70	1520	05 00 11
05 01 20	FRB190520	16 39 43	25.1	189.9	0.6		6.0	-14	1520	No stop
05 05 50	---	16 44 14	25.0	191.1	0.7		6.8	256	1555	05 01 21
05 05 50	J1605-1139	16 44 14	24.7	190.2	0.6		6.2	-13	1555	No stop
05 07 40	=1602-115	16 46 04	24.6	190.7	0.7		6.5	97	1569	05 05 51
05 07 40	FRB190520	16 46 04	24.9	191.6	0.7		7.1	-14	1569	No stop
05 12 10	---	16 50 35	24.8	192.8	0.8		7.8	256	1604	05 07 41
05 12 40	J1605-1139	16 51 05	24.5	192.0	0.7		7.3	17	1604	05 12 40
05 13 50	=1602-115	16 52 15	24.4	192.3	0.8		7.5	70	1613	05 12 41
05 13 50	J1603-1007	16 52 15	25.9	193.1	0.8		7.9	-19	1613	No stop
05 18 20	=1600-099	16 56 46	25.7	194.3	0.9		8.7	251	1648	05 13 51
05 18 20	J1605-1139	16 56 46	24.3	193.5	0.8		8.2	-19	1648	No stop
05 20 10	=1602-115	16 58 36	24.2	194.0	0.9		8.5	91	1662	05 18 21
05 20 10	FRB190520	16 58 36	24.5	194.9	0.9		9.1	-14	1662	No stop
05 24 40	---	17 03 07	24.3	196.1	1.0		9.8	256	1697	05 20 11
05 25 10	J1605-1139	17 03 37	24.0	195.3	1.0		9.3	17	1697	05 25 10
05 26 20	=1602-115	17 04 47	24.0	195.6	1.0		9.5	70	1706	05 25 11

Schedule for TORUN (Code Tr)

Page 7

EM161A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sat 26 Feb 2022 Day 57 ---										
05 26 20	FRB190520	17 04 47	24.2	196.6	1.0		10.1	-14	1706	No stop
05 30 50	---	17 09 18	24.0	197.8	1.1		10.8	256	1740	05 26 21
05 30 50	J1605-1139	17 09 18	23.8	196.8	1.0		10.2	-13	1740	No stop
05 32 40	=1602-115	17 11 08	23.7	197.3	1.1		10.5	97	1755	05 30 51
05 32 40	FRB190520	17 11 08	23.9	198.2	1.1		11.1	-14	1755	No stop
05 37 10	---	17 15 39	23.7	199.4	1.2		11.8	256	1789	05 32 41
05 37 40	J1605-1139	17 16 09	23.5	198.6	1.2		11.3	17	1789	05 37 40
05 38 50	=1602-115	17 17 19	23.4	198.9	1.2		11.5	70	1798	05 37 41
05 38 50	FRB190520	17 17 19	23.6	199.9	1.2		12.0	-14	1798	No stop
05 43 20	---	17 21 50	23.4	201.0	1.3		12.7	256	1833	05 38 51
05 43 20	J1605-1139	17 21 50	23.2	200.1	1.3		12.2	-13	1833	No stop
05 45 10	=1602-115	17 23 40	23.1	200.6	1.3		12.5	97	1847	05 43 21
05 45 10	FRB190520	17 23 40	23.3	201.5	1.3		13.0	-14	1847	No stop
05 49 40	---	17 28 11	23.0	202.7	1.4		13.7	256	1882	05 45 11
05 50 10	J1605-1139	17 28 41	22.8	201.9	1.4		13.2	17	1882	05 50 10
05 51 20	=1602-115	17 29 51	22.8	202.2	1.4		13.4	70	1891	05 50 11
05 51 20	J1603-1007	17 29 51	24.2	203.1	1.4		13.9	-18	1891	No stop
05 55 50	=1600-099	17 34 22	23.9	204.3	1.5		14.5	252	1926	05 51 21
05 55 50	J1605-1139	17 34 22	22.5	203.4	1.5		14.1	-19	1926	No stop
05 57 40	=1602-115	17 36 12	22.4	203.8	1.5		14.3	91	1940	05 55 51
05 57 40	FRB190520	17 36 12	22.6	204.8	1.5		14.9	-14	1940	No stop
06 02 10	---	17 40 43	22.3	205.9	1.6		15.5	256	1975	05 57 41
06 02 40	J1605-1139	17 41 13	22.1	205.1	1.6		15.1	17	1975	06 02 40
06 03 50	=1602-115	17 42 23	22.0	205.4	1.6		15.3	70	1984	06 02 41
06 03 50	FRB190520	17 42 23	22.2	206.3	1.7		15.8	-14	1984	No stop
06 08 20	---	17 46 54	21.9	207.5	1.7		16.4	256	2019	06 03 51
06 08 20	J1605-1139	17 46 54	21.7	206.6	1.7		15.9	-13	2019	No stop
06 10 10	=1602-115	17 48 44	21.6	207.0	1.7		16.2	97	2033	06 08 21
06 12 30	J1550+0527	17 51 05	36.4	218.0	2.0		21.8	70	2033	06 12 30
06 16 30	=1548+056	17 55 06	36.0	219.2	2.1		22.4	240	2064	06 12 31

Schedule for TORUN (Code Tr)

Page 8

EM161A

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sat 26 Feb 2022 Day 57 ---										
06 18 50	J1605-1139	17 57 26	21.0	209.2	1.8		17.4	70	2064	06 18 50
06 20 20	=1602-115	17 58 56	20.9	209.6	1.9		17.6	90	2075	06 18 51
06 20 20	FRB190520	17 58 56	21.0	210.5	1.9		18.1	-14	2075	No stop
06 24 50	---	18 03 27	20.6	211.6	2.0		18.7	256	2110	06 20 21
06 25 20	J1605-1139	18 03 57	20.5	210.8	2.0		18.3	17	2110	06 25 20
06 26 30	=1602-115	18 05 07	20.4	211.1	2.0		18.5	70	2119	06 25 21
06 26 30	FRB190520	18 05 07	20.5	212.0	2.0		19.0	-14	2119	No stop
06 31 00	---	18 09 38	20.1	213.2	2.1		19.6	256	2154	06 26 31
06 31 00	J1605-1139	18 09 38	20.0	212.2	2.1		19.1	-13	2154	No stop
06 32 50	=1602-115	18 11 28	19.9	212.7	2.1		19.3	97	2168	06 31 01
06 32 50	FRB190520	18 11 28	20.0	213.6	2.1		19.8	-14	2168	No stop
06 37 20	---	18 15 59	19.6	214.7	2.2		20.4	256	2203	06 32 51
06 37 50	J1605-1139	18 16 29	19.5	213.9	2.2		20.0	17	2203	06 37 50
06 39 00	=1602-115	18 17 39	19.4	214.2	2.2		20.2	70	2212	06 37 51
06 39 00	J1603-1007	18 17 39	20.7	215.3	2.2		20.6	-18	2212	No stop
06 43 30	=1600-099	18 22 10	20.3	216.4	2.3		21.2	252	2247	06 39 01
06 43 30	J1605-1139	18 22 10	19.0	215.3	2.3		20.8	-18	2247	No stop
06 45 20	=1602-115	18 24 00	18.8	215.7	2.3		21.0	92	2261	06 43 31
06 45 20	FRB190520	18 24 00	18.9	216.7	2.3		21.4	-14	2261	No stop
06 49 50	---	18 28 31	18.5	217.7	2.4		22.0	256	2296	06 45 21
06 50 20	J1605-1139	18 29 01	18.4	216.9	2.4		21.6	17	2296	06 50 20
06 51 30	=1602-115	18 30 11	18.3	217.2	2.4		21.8	70	2305	06 50 21
06 51 30	FRB190520	18 30 11	18.3	218.1	2.4		22.2	-14	2305	No stop
06 56 00	---	18 34 42	17.9	219.2	2.5		22.8	256	2339	06 51 31
06 56 30	J1605-1139	18 35 12	17.8	218.4	2.5		22.4	17	2339	06 56 30
06 57 40	=1602-115	18 36 22	17.7	218.7	2.5		22.5	70	2348	06 56 31
06 57 40	FRB190520	18 36 22	17.7	219.6	2.6		23.0	-14	2348	No stop
07 02 10	---	18 40 53	17.3	220.7	2.6		23.5	256	2383	06 57 41
07 02 10	J1605-1139	18 40 53	17.3	219.8	2.6		23.1	-13	2383	No stop
07 04 00	=1602-115	18 42 43	17.1	220.2	2.6		23.3	97	2397	07 02 11

Schedule for TORUN (Code Tr)

Page 9

EM161A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
07 04 00	FRB190520	18 42 43	17.1	221.1	2.7		23.7	-14	2397	No stop
07 08 30	---	18 47 14	16.7	222.2	2.7		24.3	256	2432	07 04 01
07 09 00	J1605-1139	18 47 44	16.6	221.4	2.7		23.9	17	2432	07 09 00
07 10 10	=1602-115	18 48 54	16.5	221.7	2.7		24.1	70	2441	07 09 01
07 10 10	J1603-1007	18 48 54	17.7	222.8	2.7		24.5	-18	2441	No stop
07 14 40	=1600-099	18 53 25	17.2	223.8	2.8		25.0	252	2476	07 10 11
07 14 40	J1605-1139	18 53 25	16.0	222.7	2.8		24.6	-18	2476	No stop
07 16 30	=1602-115	18 55 15	15.9	223.1	2.8		24.8	92	2490	07 14 41
07 16 30	FRB190520	18 55 15	15.9	224.0	2.9		25.2	-14	2490	No stop
07 21 00	---	18 59 46	15.4	225.1	2.9		25.7	256	2525	07 16 31
07 21 30	J1605-1139	19 00 16	15.3	224.3	2.9		25.4	17	2525	07 21 30
07 22 40	=1602-115	19 01 26	15.2	224.5	2.9		25.5	70	2534	07 21 31
07 22 40	FRB190520	19 01 26	15.2	225.4	3.0		25.9	-14	2534	No stop
07 27 10	---	19 05 57	14.7	226.5	3.0		26.4	256	2569	07 22 41
07 27 40	J1605-1139	19 06 27	14.7	225.7	3.0		26.0	17	2569	07 27 40
07 28 50	=1602-115	19 07 37	14.6	226.0	3.0		26.2	70	2578	07 27 41
07 28 50	FRB190520	19 07 37	14.5	226.9	3.1		26.5	-14	2578	No stop
07 33 20	---	19 12 08	14.0	227.9	3.1		27.0	256	2612	07 28 51
07 33 20	J1605-1139	19 12 08	14.1	227.0	3.1		26.6	-13	2612	No stop
07 35 10	=1602-115	19 13 58	13.9	227.4	3.1		26.8	97	2627	07 33 21
07 35 10	FRB190520	19 13 58	13.8	228.3	3.2		27.2	-14	2627	No stop
07 39 40	---	19 18 29	13.3	229.3	3.3		27.7	256	2661	07 35 11
07 40 10	J1605-1139	19 18 59	13.3	228.5	3.2		27.3	17	2661	07 40 10
07 41 20	=1602-115	19 20 09	13.2	228.8	3.2		27.5	70	2670	07 40 11
07 41 20	J1603-1007	19 20 09	14.3	230.0	3.3		27.8	-17	2670	No stop
07 45 50	=1600-099	19 24 40	13.8	231.0	3.3		28.3	253	2705	07 41 21
07 45 50	J1605-1139	19 24 40	12.7	229.8	3.3		27.9	-17	2705	No stop
07 47 40	=1602-115	19 26 31	12.4	230.2	3.3		28.1	93	2719	07 45 51
07 47 40	FRB190520	19 26 31	12.4	231.1	3.4		28.5	-14	2719	No stop
07 52 10	---	19 31 01	11.9	232.1	3.5		28.9	256	2754	07 47 41

Schedule for TORUN (Code Tr)

Page 10

EM161A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

```
-----
```

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sat 26 Feb 2022 Day 57 ---										
07 52 40	J1605-1139	19 31 31	11.9	231.3	3.4		28.6	17	2754	07 52 40
07 53 50	=1602-115	19 32 42	11.7	231.5	3.4		28.7	70	2763	07 52 41
07 53 50	FRB190520	19 32 42	11.7	232.4	3.5		29.0	-14	2763	No stop
07 58 20	---	19 37 12	11.1	233.4	3.6		29.5	256	2798	07 53 51
07 58 50	J1605-1139	19 37 42	11.1	232.6	3.5		29.2	17	2798	07 58 50
08 00 00	=1602-115	19 38 53	11.0	232.9	3.5		29.3	70	2807	07 58 51
08 00 00	FRB190520	19 38 53	10.9	233.8	3.6		29.6	-14	2807	No stop
08 04 30	---	19 43 23	10.4	234.8	3.7		30.0	256	2842	08 00 01
08 04 30	J1605-1139	19 43 23	10.4	233.9	3.6		29.7	-13	2842	No stop
08 06 20	=1602-115	19 45 14	10.2	234.3	3.6		29.9	97	2856	08 04 31
08 06 20	FRB190520	19 45 14	10.1	235.2	3.7		30.2	-14	2856	No stop
08 10 50	---	19 49 44	9.6	236.1	3.8		30.6	256	2891	08 06 21
08 11 20	J1605-1139	19 50 14	9.6	235.4	3.7		30.3	17	2891	08 11 20
08 12 30	=1602-115	19 51 25	9.5	235.6	3.7		30.4	70	2900	08 11 21
08 14 50	J1550+0527	19 53 45	21.7	248.8	4.0		34.2	80	2900	08 14 50
08 18 50	=1548+056	19 57 46	21.1	249.7	4.1		34.5	240	2931	08 14 51
----- pulsar-check -----										
08 18 50	B1933+16	19 57 46	53.0	188.4	0.3		5.2	-136	2931	No stop
08 22 50	---	20 01 46	52.9	190.0	0.4		6.2	104	2962	08 18 51
08 24 50	J2253+1608	20 03 47	40.3	121.2	-2.9		-32.3	-32	2962	08 24 50
08 30 00	=3C454.3	20 08 57	41.0	122.6	-2.8		-31.8	278	3001	08 24 51

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

Setup group: 12	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

```

Frequency Set:  9  Setup file default.  Used with PCAL = off
LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
BBC fr=  673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
Bandwd=  32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
Matching frequency sets:  9

```

Track assignments are:

```

track1= 1, 2, 3, 4, 5, 6, 7, 8
barrel=roll_off

```

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* FRB190520	15 59 18.982299	* 16 02 04.261100	16 03 16.739138	0.00
	-11 08 58.93422	*-11 17 17.38690	-11 21 00.65358	0.00
* B1933+16	19 33 31.814330	* 19 35 47.800000	19 36 46.247072	0.00
	16 09 57.63427	* 16 16 39.90000	16 19 23.16868	0.00
1548+056	15 48 06.931007	* 15 50 35.269240	15 51 40.412200	0.01
* J1550+0527	05 36 11.23091	* 05 27 10.44845	05 23 02.63514	0.01
J1550+05	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 9440 observations.			
1600-099	16 00 34.687412	* 16 03 18.778244	16 04 30.729146	0.13
* J1603-1007	-09 59 07.60341	*-10 07 21.29503	-10 11 02.91929	0.27
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 134 observations.			
1602-115	16 02 31.767572	* 16 05 17.531656	16 06 30.203095	0.02
* J1605-1139	-11 31 20.63028	*-11 39 26.83112	-11 43 04.60001	0.04
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 2275 observations.			
3C454.3	22 51 29.519739	* 22 53 57.747939	22 55 01.246621	0.65
* J2253+1608	15 52 54.34808	* 16 08 53.56091	16 15 46.61246	0.73
2251+158	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J2253+16	GSFC 2016a X/S astro solution, 41272 observations.			

em155atr

EM155A

PI: *Hendrik Mueller*

Address: Max-Planck Institut fuer Radioastronomie

Schedule for TORUN (Code Tr)

Page 2

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are LO sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sat 26 Feb 2022 Day 57 ---										
Next scan frequencies: 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49										
Next BBC frequencies: 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51										
Next scan bandwidths: 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00										

12 30 00	J0231+1322	00 09 37	41.3	130.7	-2.4		-27.9	0	0	12 30 00
12 36 50	=0229+131	00 16 28	42.1	132.7	-2.3		-27.0	410	53	12 30 01
12 39 50	J0521+2112	00 19 29	25.2	87.7	-5.1		-40.1	74	53	12 39 50
12 41 50	=0518+211	00 21 29	25.5	88.1	-5.0		-40.1	120	68	12 39 51
12 42 50	CRAB-1	00 22 29	24.4	85.2	-5.2		-40.2	39	68	12 42 50
12 46 50	---	00 26 30	25.0	86.0	-5.2		-40.3	240	99	12 42 51
12 47 50	J0521+2112	00 27 30	26.4	89.3	-4.9		-40.1	39	99	12 47 50
12 49 50	=0518+211	00 29 30	26.7	89.7	-4.9		-40.1	120	115	12 47 51
12 50 50	CRAB-1	00 30 30	25.6	86.8	-5.1		-40.3	39	115	12 50 50
12 54 50	---	00 34 31	26.2	87.6	-5.0		-40.3	240	146	12 50 51
12 55 50	J0521+2112	00 35 31	27.6	90.9	-4.8		-40.1	39	146	12 55 50
12 57 50	=0518+211	00 37 31	27.9	91.3	-4.8		-40.1	120	161	12 55 51
12 58 50	CRAB-1	00 38 32	26.8	88.4	-5.0		-40.4	39	161	12 58 50
13 02 50	---	00 42 32	27.4	89.2	-4.9		-40.4	240	192	12 58 51
13 03 50	J0521+2112	00 43 32	28.8	92.5	-4.7		-40.1	39	192	13 03 50
13 05 50	=0518+211	00 45 33	29.1	92.9	-4.6		-40.0	120	207	13 03 51
13 06 50	CRAB-1	00 46 33	28.0	90.0	-4.8		-40.4	39	207	13 06 50
13 10 50	---	00 50 34	28.6	90.8	-4.8		-40.4	240	238	13 06 51
13 11 50	J0521+2112	00 51 34	30.0	94.2	-4.5		-40.0	39	238	13 11 50
13 13 50	=0518+211	00 53 34	30.3	94.6	-4.5		-40.0	120	254	13 11 51
13 14 50	CRAB-1	00 54 34	29.2	91.6	-4.7		-40.4	39	254	13 14 50
13 18 50	---	00 58 35	29.8	92.4	-4.6		-40.3	240	285	13 14 51
13 19 50	J0521+2112	00 59 35	31.2	95.8	-4.4		-39.9	39	285	13 19 50
13 21 50	=0518+211	01 01 35	31.5	96.3	-4.4		-39.8	120	300	13 19 51
13 22 50	CRAB-1	01 02 36	30.4	93.2	-4.6		-40.3	39	300	13 22 50
13 26 50	---	01 06 36	31.0	94.1	-4.5		-40.3	240	331	13 22 51

Schedule for TORUN (Code Tr)

Page 3

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC	

---	Sat 26 Feb 2022	Day	57	---							
13 27 50	J0521+2112	01 07 36	32.4	97.5	-4.3		-39.7	39	331	13 27 50	
13 29 50	=0518+211	01 09 37	32.7	98.0	-4.2		-39.6	120	347	13 27 51	
13 30 50	CRAB-1	01 10 37	31.6	94.9	-4.4		-40.2	39	347	13 30 50	
13 34 50	---	01 14 38	32.2	95.7	-4.4		-40.1	240	377	13 30 51	
13 35 50	J0521+2112	01 15 38	33.6	99.3	-4.1		-39.5	39	377	13 35 50	
13 37 50	=0518+211	01 17 38	33.9	99.7	-4.1		-39.4	120	393	13 35 51	
13 38 50	CRAB-1	01 18 38	32.8	96.6	-4.3		-40.1	39	393	13 38 50	
13 42 50	---	01 22 39	33.4	97.4	-4.2		-40.0	240	424	13 38 51	
13 43 50	J0521+2112	01 23 39	34.8	101.0	-4.0		-39.2	38	424	13 43 50	
13 45 50	=0518+211	01 25 39	35.1	101.4	-4.0		-39.2	120	439	13 43 51	
13 47 50	J0530+1331	01 27 40	28.0	105.4	-4.1		-36.5	79	439	13 47 50	
13 51 50	=0528+134	01 31 40	28.6	106.3	-4.0		-36.4	240	470	13 47 51	
13 53 50	J0521+2112	01 33 41	36.3	103.2	-3.8		-38.8	78	470	13 53 50	
13 55 50	=0518+211	01 35 41	36.6	103.7	-3.8		-38.8	120	486	13 53 51	
13 56 55	CRAB-1	01 36 46	35.5	100.5	-4.0		-39.6	44	486	13 56 55	
14 00 50	---	01 40 42	36.0	101.3	-3.9		-39.4	235	516	13 56 56	
14 01 55	J0521+2112	01 41 47	37.4	105.1	-3.7		-38.5	43	516	14 01 55	
14 03 50	=0518+211	01 43 42	37.7	105.5	-3.7		-38.4	115	531	14 01 56	
14 04 55	CRAB-1	01 44 47	36.6	102.2	-3.9		-39.3	43	531	14 04 55	
14 08 50	---	01 48 43	37.2	103.1	-3.8		-39.1	235	561	14 04 56	
14 09 55	J0521+2112	01 49 48	38.6	106.9	-3.6		-38.0	43	561	14 09 55	
14 11 50	=0518+211	01 51 44	38.9	107.4	-3.5		-37.9	115	576	14 09 56	
14 12 55	CRAB-1	01 52 49	37.8	104.1	-3.7		-38.9	43	576	14 12 55	
14 16 50	---	01 56 44	38.4	105.0	-3.7		-38.7	235	606	14 12 56	
14 17 55	J0521+2112	01 57 50	39.8	108.8	-3.4		-37.6	43	606	14 17 55	
14 19 50	=0518+211	01 59 45	40.0	109.3	-3.4		-37.4	115	621	14 17 56	
14 20 55	CRAB-1	02 00 50	39.0	105.9	-3.6		-38.5	43	621	14 20 55	
14 24 50	---	02 04 46	39.5	106.8	-3.5		-38.3	235	651	14 20 56	
14 25 55	J0521+2112	02 05 51	40.9	110.8	-3.3		-37.0	43	651	14 25 55	
14 27 50	=0518+211	02 07 46	41.2	111.3	-3.3		-36.9	115	666	14 25 56	
14 28 55	CRAB-1	02 08 51	40.1	107.8	-3.5		-38.1	43	666	14 28 55	
14 32 50	---	02 12 47	40.7	108.7	-3.4		-37.8	235	696	14 28 56	

Schedule for TORUN (Code Tr)

Page 4

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
14 33 55	J0521+2112	02 13 52	42.0	112.8	-3.2		-36.4	42	696	14 33 55
14 35 50	=0518+211	02 15 48	42.3	113.3	-3.1		-36.3	115	711	14 33 56
14 36 55	CRAB-1	02 16 53	41.3	109.7	-3.3		-37.6	43	711	14 36 55
14 40 50	---	02 20 48	41.8	110.7	-3.3		-37.3	235	741	14 36 56
14 41 55	J0521+2112	02 21 54	43.1	114.8	-3.0		-35.8	42	741	14 41 55
14 43 50	=0518+211	02 23 49	43.4	115.3	-3.0		-35.6	115	756	14 41 56
14 44 55	CRAB-1	02 24 54	42.4	111.7	-3.2		-37.0	42	756	14 44 55
14 48 50	---	02 28 50	42.9	112.7	-3.1		-36.7	235	786	14 44 56
14 49 55	J0521+2112	02 29 55	44.2	117.0	-2.9		-35.0	42	786	14 49 55
14 51 50	=0518+211	02 31 50	44.4	117.5	-2.9		-34.9	115	801	14 49 56
14 52 55	CRAB-1	02 32 55	43.5	113.8	-3.0		-36.4	42	801	14 52 55
14 56 50	---	02 36 51	44.0	114.8	-3.0		-36.0	235	832	14 52 56
14 57 55	J0521+2112	02 37 56	45.3	119.1	-2.8		-34.3	42	832	14 57 55
14 59 50	=0518+211	02 39 52	45.5	119.6	-2.7		-34.0	115	846	14 57 56
15 00 55	CRAB-1	02 40 57	44.6	115.8	-2.9		-35.7	42	846	15 00 55
15 04 50	---	02 44 52	45.1	116.9	-2.8		-35.3	235	877	15 00 56
15 05 55	J0521+2112	02 45 58	46.3	121.3	-2.6		-33.4	42	877	15 05 55
15 07 50	=0518+211	02 47 53	46.5	121.9	-2.6		-33.2	115	891	15 05 56
15 08 55	CRAB-1	02 48 58	45.7	118.0	-2.8		-34.9	42	891	15 08 55
15 12 50	---	02 52 54	46.2	119.1	-2.7		-34.5	235	922	15 08 56
15 13 55	J0521+2112	02 53 59	47.3	123.6	-2.5		-32.4	41	922	15 13 55
15 15 50	=0518+211	02 55 54	47.5	124.2	-2.5		-32.2	115	937	15 13 56
15 16 55	CRAB-1	02 56 59	46.7	120.2	-2.6		-34.0	42	937	15 16 55
15 20 50	---	03 00 55	47.2	121.3	-2.6		-33.6	235	967	15 16 56
15 21 55	J0521+2112	03 02 00	48.3	126.0	-2.4		-31.4	41	967	15 21 55
15 23 50	=0518+211	03 03 55	48.5	126.6	-2.3		-31.2	115	982	15 21 56
15 24 55	CRAB-1	03 05 01	47.8	122.5	-2.5		-33.1	41	982	15 24 55
15 28 50	---	03 08 56	48.2	123.6	-2.4		-32.6	235	1012	15 24 56
15 29 55	J0521+2112	03 10 01	49.3	128.4	-2.2		-30.3	41	1012	15 29 55
15 31 50	=0518+211	03 11 57	49.5	129.0	-2.2		-30.0	115	1027	15 29 56

Schedule for TORUN (Code Tr)

Page 5

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
15 32 55	CRAB-1	03 13 02	48.8	124.8	-2.4		-32.1	41	1027	15 32 55
15 36 50	---	03 16 58	49.2	126.0	-2.3		-31.6	235	1057	15 32 56
15 37 55	J0521+2112	03 18 03	50.2	130.9	-2.1		-29.1	41	1057	15 37 55
15 39 50	=0518+211	03 19 58	50.4	131.6	-2.1		-28.8	115	1072	15 37 56
15 40 55	CRAB-1	03 21 03	49.7	127.3	-2.2		-31.0	41	1072	15 40 55
15 44 50	---	03 24 59	50.2	128.5	-2.2		-30.5	235	1102	15 40 56
15 45 55	J0521+2112	03 26 04	51.1	133.5	-2.0		-27.8	40	1102	15 45 55
15 47 50	=0518+211	03 27 59	51.3	134.2	-1.9		-27.5	115	1117	15 45 56
15 48 55	CRAB-1	03 29 05	50.7	129.8	-2.1		-29.9	41	1117	15 48 55
15 52 50	---	03 33 00	51.1	131.0	-2.0		-29.3	235	1147	15 48 56
15 53 55	J0521+2112	03 34 05	51.9	136.2	-1.8		-26.5	40	1147	15 53 55
15 55 50	=0518+211	03 36 01	52.1	136.9	-1.8		-26.1	115	1162	15 53 56
15 56 55	CRAB-1	03 37 06	51.6	132.4	-2.0		-28.6	41	1162	15 56 55
16 00 50	---	03 41 02	52.0	133.7	-1.9		-27.9	235	1192	15 56 56
16 01 55	J0521+2112	03 42 07	52.7	139.0	-1.7		-25.0	40	1192	16 01 55
16 03 50	=0518+211	03 44 02	52.9	139.6	-1.7		-24.7	115	1207	16 01 56
16 04 55	CRAB-1	03 45 07	52.5	135.0	-1.8		-27.2	40	1207	16 04 55
16 08 50	---	03 49 03	52.9	136.4	-1.8		-26.5	235	1237	16 04 56
16 09 55	J0521+2112	03 50 08	53.5	141.8	-1.5		-23.5	40	1237	16 09 55
16 11 50	=0518+211	03 52 03	53.7	142.5	-1.5		-23.1	115	1252	16 09 56
16 12 55	CRAB-1	03 53 09	53.3	137.8	-1.7		-25.8	40	1252	16 12 55
16 16 50	---	03 57 04	53.7	139.2	-1.6		-25.1	235	1282	16 12 56
16 17 55	J0521+2112	03 58 09	54.2	144.7	-1.4		-21.8	39	1282	16 17 55
16 19 50	=0518+211	04 00 05	54.4	145.4	-1.4		-21.4	115	1297	16 17 56
16 21 50	J0530+1331	04 02 05	46.6	147.2	-1.5		-19.6	76	1297	16 21 50
16 25 50	=0528+134	04 06 06	46.9	148.5	-1.4		-18.8	240	1328	16 21 51
16 27 50	J0521+2112	04 08 06	55.1	148.5	-1.2		-19.7	76	1328	16 27 50
16 29 50	=0518+211	04 10 06	55.2	149.2	-1.2		-19.2	120	1344	16 27 51
16 31 00	CRAB-1	04 11 16	55.0	144.3	-1.4		-22.2	45	1344	16 31 00
16 34 40	---	04 14 57	55.3	145.7	-1.3		-21.4	220	1372	16 31 01

Schedule for TORUN (Code Tr)

Page 6

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
16 35 50	J0521+2112	04 16 07	55.7	151.6	-1.1		-17.9	44	1372	16 35 50
16 37 50	=0518+211	04 18 08	55.8	152.4	-1.1		-17.4	120	1387	16 35 51
16 39 00	CRAB-1	04 19 18	55.7	147.4	-1.3		-20.4	44	1387	16 39 00
16 42 40	---	04 22 58	56.0	148.8	-1.2		-19.6	220	1416	16 39 01
16 43 50	J0521+2112	04 24 09	56.2	154.8	-1.0		-15.9	44	1416	16 43 50
16 45 50	=0518+211	04 26 09	56.3	155.6	-0.9		-15.4	120	1431	16 43 51
16 47 00	CRAB-1	04 27 19	56.3	150.5	-1.1		-18.6	44	1431	16 47 00
16 50 40	---	04 31 00	56.6	152.0	-1.1		-17.7	220	1460	16 47 01
16 51 50	J0521+2112	04 32 10	56.7	158.0	-0.8		-13.9	44	1460	16 51 50
16 53 50	=0518+211	04 34 10	56.8	158.9	-0.8		-13.4	120	1475	16 51 51
16 55 00	CRAB-1	04 35 20	56.9	153.7	-1.0		-16.7	44	1475	16 55 00
16 58 40	---	04 39 01	57.1	155.2	-0.9		-15.7	220	1503	16 55 01
16 59 50	J0521+2112	04 40 11	57.1	161.4	-0.7		-11.9	43	1503	16 59 50
17 01 50	=0518+211	04 42 12	57.2	162.2	-0.7		-11.3	120	1519	16 59 51
17 03 00	CRAB-1	04 43 22	57.4	157.0	-0.9		-14.6	44	1519	17 03 00
17 06 40	---	04 47 02	57.6	158.6	-0.8		-13.7	220	1547	17 03 01
17 07 50	J0521+2112	04 48 13	57.4	164.8	-0.6		-9.7	43	1547	17 07 50
17 09 50	=0518+211	04 50 13	57.5	165.6	-0.5		-9.2	120	1563	17 07 51
17 11 00	CRAB-1	04 51 23	57.8	160.4	-0.7		-12.5	44	1563	17 11 00
17 14 40	---	04 55 04	58.0	162.0	-0.7		-11.6	220	1591	17 11 01
17 15 50	J0521+2112	04 56 14	57.7	168.2	-0.4		-7.6	43	1591	17 15 50
17 17 50	=0518+211	04 58 14	57.8	169.1	-0.4		-7.0	120	1606	17 15 51
17 19 00	CRAB-1	04 59 24	58.2	163.8	-0.6		-10.4	44	1606	17 19 00
17 22 40	---	05 03 05	58.3	165.4	-0.5		-9.4	220	1635	17 19 01
17 23 50	J0521+2112	05 04 15	57.9	171.7	-0.3		-5.3	43	1635	17 23 50
17 25 50	=0518+211	05 06 15	58.0	172.6	-0.3		-4.8	120	1650	17 23 51
17 27 00	CRAB-1	05 07 26	58.5	167.3	-0.5		-8.2	44	1650	17 27 00
17 30 40	---	05 11 06	58.6	169.0	-0.4		-7.1	220	1679	17 27 01
17 31 50	J0521+2112	05 12 16	58.1	175.2	-0.2		-3.1	43	1679	17 31 50
17 33 50	=0518+211	05 14 17	58.1	176.1	-0.1		-2.5	120	1694	17 31 51

Schedule for TORUN (Code Tr)

Page 7

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
17 35 00	CRAB-1	05 15 27	58.7	170.9	-0.3		-5.9	44	1694	17 35 00
17 38 40	---	05 19 08	58.8	172.5	-0.3		-4.8	220	1722	17 35 01
17 39 50	J0521+2112	05 20 18	58.1	178.8	-0.0		-0.8	43	1722	17 39 50
17 41 50	=0518+211	05 22 18	58.1	179.7	-0.0		-0.2	120	1738	17 39 51
17 43 00	CRAB-1	05 23 28	58.8	174.4	-0.2		-3.6	44	1738	17 43 00
17 46 40	---	05 27 09	58.9	176.1	-0.1		-2.5	220	1766	17 43 01
17 47 50	J0521+2112	05 28 19	58.1	182.3	0.1		1.5	43	1766	17 47 50
17 49 50	=0518+211	05 30 19	58.1	183.2	0.1		2.1	120	1782	17 47 51
17 51 00	CRAB-1	05 31 30	58.9	178.0	-0.1		-1.3	44	1782	17 51 00
17 54 40	---	05 35 10	58.9	179.7	-0.0		-0.2	220	1810	17 51 01
17 55 50	J0521+2112	05 36 20	58.0	185.8	0.2		3.8	43	1810	17 55 50
17 57 50	=0518+211	05 38 21	58.0	186.7	0.3		4.3	120	1825	17 55 51
17 59 00	CRAB-1	05 39 31	58.9	181.6	0.1		1.1	44	1825	17 59 00
18 02 40	---	05 43 12	58.9	183.3	0.1		2.1	220	1854	17 59 01
18 03 50	J0521+2112	05 44 22	57.9	189.4	0.4		6.0	44	1854	18 03 50
18 05 50	=0518+211	05 46 22	57.8	190.2	0.4		6.6	120	1869	18 03 51
18 07 00	CRAB-1	05 47 32	58.9	185.2	0.2		3.4	44	1869	18 07 00
18 10 40	---	05 51 13	58.8	186.9	0.3		4.5	220	1898	18 07 01
18 11 50	J0521+2112	05 52 23	57.6	192.8	0.5		8.2	44	1898	18 11 50
18 13 50	=0518+211	05 54 23	57.6	193.7	0.5		8.8	120	1913	18 11 51
18 15 00	CRAB-1	05 55 34	58.7	188.8	0.3		5.7	44	1913	18 15 00
18 18 40	---	05 59 14	58.6	190.4	0.4		6.7	220	1941	18 15 01
18 19 50	J0521+2112	06 00 24	57.3	196.3	0.6		10.4	44	1941	18 19 50
18 21 50	=0518+211	06 02 25	57.3	197.1	0.7		10.9	120	1957	18 19 51
18 23 00	CRAB-1	06 03 35	58.5	192.4	0.5		8.0	45	1957	18 23 00
18 26 40	---	06 07 15	58.4	194.0	0.5		9.0	220	1985	18 23 01
18 27 50	J0521+2112	06 08 26	57.0	199.6	0.8		12.5	44	1985	18 27 50
18 29 50	=0518+211	06 10 26	56.9	200.5	0.8		13.0	120	2001	18 27 51
18 31 00	CRAB-1	06 11 36	58.2	195.9	0.6		10.2	45	2001	18 31 00
18 34 40	---	06 15 17	58.0	197.4	0.7		11.2	220	2029	18 31 01

Schedule for TORUN (Code Tr)

Page 8

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
18 35 50	J0521+2112	06 16 27	56.5	203.0	0.9		14.6	45	2029	18 35 50
18 37 50	=0518+211	06 18 27	56.4	203.8	0.9		15.1	120	2044	18 35 51
18 39 00	CRAB-1	06 19 38	57.8	199.3	0.7		12.4	45	2044	18 39 00
18 42 40	---	06 23 18	57.6	200.9	0.8		13.3	220	2073	18 39 01
18 43 50	J0521+2112	06 24 28	56.0	206.2	1.0		16.5	45	2073	18 43 50
18 45 50	=0518+211	06 26 29	55.9	207.0	1.1		17.0	120	2088	18 43 51
18 47 00	CRAB-1	06 27 39	57.4	202.7	0.9		14.5	46	2088	18 47 00
18 50 40	---	06 31 19	57.2	204.2	0.9		15.4	220	2116	18 47 01
18 51 50	J0521+2112	06 32 30	55.5	209.4	1.2		18.4	45	2116	18 51 50
18 53 50	=0518+211	06 34 30	55.3	210.2	1.2		18.9	120	2132	18 51 51
18 55 00	CRAB-1	06 35 40	56.9	206.0	1.0		16.5	46	2132	18 55 00
18 58 40	---	06 39 21	56.7	207.5	1.1		17.4	220	2160	18 55 01
18 59 50	J0521+2112	06 40 31	54.9	212.5	1.3		20.2	46	2160	18 59 50
19 01 50	=0518+211	06 42 31	54.7	213.2	1.3		20.7	120	2176	18 59 51
19 03 00	CRAB-1	06 43 41	56.3	209.2	1.1		18.4	46	2176	19 03 00
19 06 40	---	06 47 22	56.1	210.6	1.2		19.3	220	2204	19 03 01
19 07 50	J0521+2112	06 48 32	54.2	215.5	1.4		22.0	46	2204	19 07 50
19 09 50	=0518+211	06 50 33	54.0	216.2	1.5		22.4	120	2220	19 07 51
19 11 00	CRAB-1	06 51 43	55.7	212.3	1.3		20.3	47	2220	19 11 00
19 14 40	---	06 55 23	55.4	213.7	1.3		21.1	220	2248	19 11 01
19 15 50	J0521+2112	06 56 34	53.5	218.4	1.6		23.6	46	2248	19 15 50
19 17 50	=0518+211	06 58 34	53.3	219.1	1.6		24.0	120	2263	19 15 51
19 19 00	CRAB-1	06 59 44	55.1	215.4	1.4		22.0	47	2263	19 19 00
19 22 40	---	07 03 25	54.7	216.8	1.5		22.8	220	2292	19 19 01
19 23 50	J0521+2112	07 04 35	52.7	221.2	1.7		25.1	47	2292	19 23 50
19 25 50	=0518+211	07 06 35	52.5	221.9	1.7		25.5	120	2307	19 23 51
19 27 00	CRAB-1	07 07 45	54.3	218.4	1.5		23.7	47	2307	19 27 00
19 30 40	---	07 11 26	54.0	219.7	1.6		24.4	220	2335	19 27 01
19 31 50	J0521+2112	07 12 36	51.9	224.0	1.8		26.6	47	2335	19 31 50
19 33 50	=0518+211	07 14 37	51.7	224.6	1.9		26.9	120	2351	19 31 51

Schedule for TORUN (Code Tr)

Page 9

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
19 35 00	CRAB-1	07 15 47	53.6	221.2	1.7		25.3	48	2351	19 35 00
19 38 40	---	07 19 27	53.2	222.5	1.7		26.0	220	2379	19 35 01
19 39 50	J0521+2112	07 20 38	51.0	226.6	2.0		27.9	47	2379	19 39 50
19 41 50	=0518+211	07 22 38	50.8	227.3	2.0		28.3	120	2395	19 39 51
19 43 00	CRAB-1	07 23 48	52.7	224.0	1.8		26.8	48	2395	19 43 00
19 46 40	---	07 27 29	52.4	225.3	1.9		27.4	220	2423	19 43 01
19 47 50	J0521+2112	07 28 39	50.1	229.2	2.1		29.2	48	2423	19 47 50
19 49 50	=0518+211	07 30 39	49.9	229.9	2.1		29.5	120	2439	19 47 51
19 51 00	CRAB-1	07 31 49	51.9	226.7	1.9		28.1	48	2439	19 51 00
19 54 40	---	07 35 30	51.5	227.9	2.0		28.7	220	2467	19 51 01
19 55 50	J0521+2112	07 36 40	49.2	231.7	2.2		30.4	48	2467	19 55 50
19 57 50	=0518+211	07 38 40	49.0	232.3	2.3		30.7	120	2482	19 55 51
19 58 55	CRAB-1	07 39 46	51.0	229.3	2.1		29.4	43	2482	19 58 55
20 02 45	---	07 43 36	50.6	230.5	2.1		30.0	230	2512	19 58 56
20 03 55	J0521+2112	07 44 46	48.2	234.2	2.4		31.5	48	2512	20 03 55
20 05 55	=0518+211	07 46 47	48.0	234.8	2.4		31.8	120	2527	20 03 56
20 07 00	CRAB-1	07 47 52	50.1	231.9	2.2		30.6	43	2527	20 07 00
20 10 50	---	07 51 43	49.6	233.0	2.3		31.2	230	2557	20 07 01
20 11 55	J0521+2112	07 52 48	47.2	236.5	2.5		32.5	43	2557	20 11 55
20 13 55	=0518+211	07 54 48	47.0	237.1	2.5		32.8	120	2573	20 11 56
20 15 00	CRAB-1	07 55 53	49.1	234.3	2.3		31.7	43	2573	20 15 00
20 18 50	---	07 59 44	48.6	235.5	2.4		32.3	230	2602	20 15 01
20 20 00	J0521+2112	08 00 54	46.2	238.9	2.6		33.5	47	2602	20 20 00
20 22 00	=0518+211	08 02 54	45.9	239.4	2.7		33.7	120	2618	20 20 01
20 23 05	CRAB-1	08 04 00	48.1	236.7	2.5		32.8	43	2618	20 23 05
20 26 55	---	08 07 50	47.6	237.8	2.5		33.3	230	2647	20 23 06
20 28 00	J0521+2112	08 08 55	45.2	241.1	2.8		34.3	42	2647	20 28 00
20 30 00	=0518+211	08 10 56	44.9	241.6	2.8		34.5	120	2663	20 28 01
20 31 00	CRAB-1	08 11 56	47.1	239.0	2.6		33.7	38	2663	20 31 00
20 35 00	---	08 15 57	46.6	240.1	2.7		34.2	240	2694	20 31 01

Schedule for TORUN (Code Tr)

Page 10

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
20 36 00	J0521+2112	08 16 57	44.1	243.2	2.9		35.1	37	2694	20 36 00
20 38 00	=0518+211	08 18 57	43.8	243.8	2.9		35.3	120	2709	20 36 01
20 39 00	CRAB-1	08 19 57	46.0	241.2	2.7		34.6	37	2709	20 39 00
20 43 00	---	08 23 58	45.5	242.3	2.8		35.0	240	2740	20 39 01
20 44 00	J0521+2112	08 24 58	43.0	245.3	3.0		35.8	37	2740	20 44 00
20 46 00	=0518+211	08 26 58	42.7	245.8	3.1		36.0	120	2755	20 44 01
20 47 00	CRAB-1	08 27 59	45.0	243.4	2.9		35.4	37	2755	20 47 00
20 51 00	---	08 31 59	44.4	244.5	2.9		35.8	240	2786	20 47 01
20 52 00	J0521+2112	08 32 59	41.9	247.4	3.2		36.5	37	2786	20 52 00
20 54 00	=0518+211	08 35 00	41.6	247.9	3.2		36.6	120	2802	20 52 01
20 55 00	CRAB-1	08 36 00	43.9	245.5	3.0		36.1	37	2802	20 55 00
20 59 00	---	08 40 01	43.3	246.6	3.1		36.5	240	2833	20 55 01
21 00 00	J0521+2112	08 41 01	40.8	249.4	3.3		37.1	37	2833	21 00 00
21 02 00	=0518+211	08 43 01	40.5	249.9	3.3		37.2	120	2848	21 00 01
21 03 00	CRAB-1	08 44 01	42.8	247.6	3.1		36.8	37	2848	21 03 00
21 07 00	---	08 48 02	42.2	248.6	3.2		37.1	240	2879	21 03 01
21 08 00	J0521+2112	08 49 02	39.7	251.3	3.4		37.6	37	2879	21 08 00
21 10 00	=0518+211	08 51 02	39.4	251.8	3.5		37.7	120	2895	21 08 01
21 11 00	CRAB-1	08 52 02	41.7	249.6	3.3		37.4	37	2895	21 11 00
21 15 00	---	08 56 03	41.1	250.6	3.3		37.7	240	2925	21 11 01
21 16 00	J0521+2112	08 57 03	38.5	253.2	3.6		38.1	37	2925	21 16 00
21 18 00	=0518+211	08 59 04	38.2	253.7	3.6		38.2	120	2941	21 16 01
21 19 00	CRAB-1	09 00 04	40.5	251.5	3.4		37.9	37	2941	21 19 00
21 23 00	---	09 04 04	40.0	252.5	3.5		38.2	240	2972	21 19 01
21 24 00	J0521+2112	09 05 05	37.3	255.1	3.7		38.5	37	2972	21 24 00
21 26 00	=0518+211	09 07 05	37.1	255.5	3.7		38.6	120	2987	21 24 01
21 27 00	CRAB-1	09 08 05	39.4	253.4	3.5		38.4	37	2987	21 27 00
21 31 00	---	09 12 06	38.8	254.4	3.6		38.6	240	3018	21 27 01
21 32 00	J0521+2112	09 13 06	36.2	256.9	3.8		38.9	37	3018	21 32 00
21 34 00	=0518+211	09 15 06	35.9	257.4	3.9		38.9	120	3034	21 32 01

Schedule for TORUN (Code Tr)

Page 11

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
21 35 00	CRAB-1	09 16 06	38.2	255.3	3.7		38.8	37	3034	21 35 00
21 39 00	---	09 20 07	37.6	256.2	3.7		39.0	240	3065	21 35 01
21 40 00	J0521+2112	09 21 07	35.0	258.7	4.0		39.2	37	3065	21 40 00
21 42 00	=0518+211	09 23 08	34.7	259.1	4.0		39.2	120	3080	21 40 01
21 43 00	CRAB-1	09 24 08	37.1	257.1	3.8		39.2	37	3080	21 43 00
21 47 00	---	09 28 08	36.5	258.0	3.9		39.3	240	3111	21 43 01
21 48 00	J0521+2112	09 29 09	33.8	260.4	4.1		39.4	37	3111	21 48 00
21 50 00	=0518+211	09 31 09	33.5	260.9	4.1		39.5	120	3126	21 48 01
21 51 00	CRAB-1	09 32 09	35.9	258.9	3.9		39.5	37	3126	21 51 00
21 55 00	---	09 36 10	35.3	259.8	4.0		39.6	240	3157	21 51 01
21 56 00	J0521+2112	09 37 10	32.6	262.2	4.2		39.7	37	3157	21 56 00
21 58 00	=0518+211	09 39 10	32.3	262.6	4.3		39.7	120	3173	21 56 01
21 59 00	CRAB-1	09 40 10	34.7	260.7	4.1		39.7	37	3173	21 59 00
22 03 00	---	09 44 11	34.1	261.5	4.1		39.8	240	3204	21 59 01
22 04 00	J0521+2112	09 45 11	31.4	263.9	4.4		39.8	37	3204	22 04 00
22 06 00	=0518+211	09 47 12	31.1	264.3	4.4		39.9	120	3219	22 04 01
22 07 00	CRAB-1	09 48 12	33.5	262.4	4.2		39.9	37	3219	22 07 00
22 11 00	---	09 52 12	32.9	263.2	4.3		40.0	240	3250	22 07 01
22 12 00	J0521+2112	09 53 12	30.2	265.5	4.5		40.0	36	3250	22 12 00
22 14 00	=0518+211	09 55 13	29.9	265.9	4.5		40.0	120	3266	22 12 01
22 15 00	CRAB-1	09 56 13	32.3	264.1	4.3		40.1	37	3266	22 15 00
22 19 00	---	10 00 14	31.7	264.9	4.4		40.2	240	3296	22 15 01
22 20 00	J0521+2112	10 01 14	29.0	267.2	4.6		40.0	36	3296	22 20 00
22 22 00	=0518+211	10 03 14	28.7	267.6	4.7		40.1	120	3312	22 20 01
22 23 00	CRAB-1	10 04 14	31.1	265.8	4.5		40.2	37	3312	22 23 00
22 27 00	---	10 08 15	30.5	266.6	4.5		40.3	240	3343	22 23 01
22 28 00	J0521+2112	10 09 15	27.8	268.8	4.8		40.1	36	3343	22 28 00
22 30 00	=0518+211	10 11 15	27.5	269.2	4.8		40.1	120	3358	22 28 01
22 31 00	CRAB-1	10 12 16	29.9	267.4	4.6		40.3	37	3358	22 31 00
22 35 00	---	10 16 16	29.3	268.2	4.7		40.4	240	3389	22 31 01

Schedule for TORUN (Code Tr)

Page 12

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	26 Feb 2022	Day	57	---					
22 36 00	J0521+2112	10 17 16	26.6	270.4	4.9		40.1	36	3389	22 36 00
22 38 00	=0518+211	10 19 17	26.3	270.8	4.9		40.1	120	3405	22 36 01
22 39 00	CRAB-1	10 20 17	28.7	269.0	4.7		40.4	37	3405	22 39 00
22 43 00	---	10 24 18	28.1	269.8	4.8		40.4	240	3436	22 39 01
22 44 00	J0521+2112	10 25 18	25.4	272.0	5.0		40.1	36	3436	22 44 00
22 46 00	=0518+211	10 27 18	25.1	272.4	5.1		40.1	120	3451	22 44 01
22 47 00	CRAB-1	10 28 18	27.5	270.6	4.9		40.4	37	3451	22 47 00
22 51 00	---	10 32 19	26.9	271.4	4.9		40.4	240	3482	22 47 01
22 52 00	J0521+2112	10 33 19	24.2	273.6	5.2		40.0	36	3482	22 52 00
22 54 00	=0518+211	10 35 19	23.9	274.0	5.2		40.0	120	3497	22 52 01
22 55 00	CRAB-1	10 36 20	26.3	272.2	5.0		40.3	37	3497	22 55 00
22 59 00	---	10 40 20	25.7	273.0	5.1		40.3	240	3528	22 55 01
23 00 00	J0521+2112	10 41 20	23.0	275.1	5.3		39.9	36	3528	23 00 00
23 02 00	=0518+211	10 43 21	22.7	275.5	5.3		39.9	120	3544	23 00 01
23 03 00	CRAB-1	10 44 21	25.1	273.8	5.1		40.3	37	3544	23 03 00
23 07 00	---	10 48 22	24.5	274.6	5.2		40.2	240	3575	23 03 01
23 08 00	J0521+2112	10 49 22	21.8	276.7	5.4		39.8	36	3575	23 08 00
23 10 00	=0518+211	10 51 22	21.5	277.1	5.5		39.7	120	3590	23 08 01
23 11 00	CRAB-1	10 52 22	23.9	275.4	5.3		40.2	37	3590	23 11 00
23 15 00	---	10 56 23	23.3	276.1	5.3		40.1	240	3621	23 11 01
23 16 00	J0521+2112	10 57 23	20.6	278.2	5.6		39.6	37	3621	23 16 00
23 18 00	=0518+211	10 59 23	20.3	278.6	5.6		39.6	120	3637	23 16 01
23 19 00	CRAB-1	11 00 24	22.7	276.9	5.4		40.0	37	3637	23 19 00
23 23 00	---	11 04 24	22.1	277.7	5.5		39.9	240	3667	23 19 01
23 24 00	J0521+2112	11 05 24	19.4	279.8	5.7		39.4	37	3667	23 24 00
23 26 00	=0518+211	11 07 25	19.1	280.2	5.7		39.4	120	3683	23 24 01
23 27 00	CRAB-1	11 08 25	21.5	278.4	5.5		39.8	37	3683	23 27 00
23 31 00	---	11 12 25	20.9	279.2	5.6		39.7	240	3714	23 27 01
23 32 00	J0521+2112	11 13 26	18.3	281.3	5.8		39.2	37	3714	23 32 00
23 34 00	=0518+211	11 15 26	18.0	281.7	5.9		39.1	120	3729	23 32 01

Schedule for TORUN (Code Tr)

Page 13

EM155A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sat 26 Feb 2022 Day 57 ---										
23 35 00	CRAB-1	11 16 26	20.3	280.0	5.7		39.6	37	3729	23 35 00
23 39 00	---	11 20 27	19.7	280.7	5.7		39.5	240	3760	23 35 01
23 40 00	J0521+2112	11 21 27	17.1	282.8	6.0		38.9	37	3760	23 40 00
23 42 00	=0518+211	11 23 27	16.8	283.2	6.0		38.8	120	3776	23 40 01
23 43 00	CRAB-1	11 24 27	19.1	281.5	5.8		39.4	37	3776	23 43 00
23 47 00	---	11 28 28	18.5	282.3	5.9		39.3	240	3807	23 43 01
23 48 00	J0521+2112	11 29 28	15.9	284.3	6.1		38.6	37	3807	23 48 00
23 50 00	=0518+211	11 31 29	15.6	284.7	6.1		38.5	120	3822	23 48 01
23 51 00	CRAB-1	11 32 29	17.9	283.0	5.9		39.1	37	3822	23 51 00
23 55 00	---	11 36 29	17.4	283.8	6.0		39.0	240	3853	23 51 01
23 56 00	J0521+2112	11 37 30	14.7	285.9	6.2		38.3	37	3853	23 56 00
23 58 00	=0518+211	11 39 30	14.5	286.2	6.3		38.2	120	3868	23 56 01
--- Start: Sat 26 Feb 2022 Day 57 -- Stop: Sun 27 Feb 2022 Day 58 ---										
23 59 00	CRAB-1	11 40 30	16.8	284.5	6.1		38.8	37	3868	23 59 00
00 03 00	---	11 44 31	16.2	285.3	6.1		38.7	240	3899	23 59 01
00 04 00	J0521+2112	11 45 31	13.6	287.4	6.4		37.9	37	3899	00 04 00
00 06 00	=0518+211	11 47 31	13.3	287.8	6.4		37.8	120	3915	00 04 01
00 07 00	CRAB-1	11 48 31	15.6	286.0	6.2		38.5	37	3915	00 07 00
00 11 00	---	11 52 32	15.0	286.8	6.3		38.3	240	3946	00 07 01
00 12 00	J0521+2112	11 53 32	12.4	288.9	6.5		37.6	37	3946	00 12 00
00 14 00	=0518+211	11 55 33	12.2	289.3	6.5		37.5	120	3961	00 12 01
00 15 00	CRAB-1	11 56 33	14.5	287.6	6.3		38.1	37	3961	00 15 00
00 19 00	---	12 00 33	13.9	288.3	6.4		38.0	240	3992	00 15 01
00 20 00	J0521+2112	12 01 34	11.3	290.4	6.6		37.1	37	3992	00 20 00
00 22 00	=0518+211	12 03 34	11.0	290.8	6.7		37.0	120	4008	00 20 01
00 23 00	CRAB-1	12 04 34	13.3	289.1	6.5		37.8	37	4008	00 23 00
00 27 00	---	12 08 35	12.8	289.8	6.5		37.5	240	4038	00 23 01
00 28 00	J0521+2112	12 09 35	10.2	291.9	6.8		36.7	37	4038	00 28 00
00 30 00	=0518+211	12 11 35	9.9	292.3	6.8		36.6	120	4054	00 28 01

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

===== Setup file: sess122.L1024

Setup group:	12	Station: TORUN	Total bit rate: 1024
Format:	VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels:	8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 7 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 7

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(Date)	Error (mas)
* CRAB-1	05 31 31.383280 21 58 54.55188	* 05 34 31.928600 22 01 44.80629	0.00 0.00
0229+131	02 29 02.524210	* 02 31 45.894057	0.00
* J0231+1322	13 09 40.78811	* 13 22 54.71626	0.00
J0231+13	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 97647 observations.		
0518+211	05 18 46.711023	* 05 21 45.965858	0.13
* J0521+2112	21 09 58.62275	* 21 12 51.45193	0.16
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 165 observations.		
0528+134	05 28 06.759216	* 05 30 56.416746	0.21
* J0530+1331	13 29 42.28882	* 13 31 55.14948	0.24
J0530+13	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 138236 observations.		

em161btr

EM161B

PI: Marcote

Address: JIVE

Schedule for TORUN (Code Tr)

Page 2

EM161B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are LO sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 27 Feb 2022 Day 58 ---										
Next scan frequencies:		1626.49	1626.49	1626.49	1626.49	1690.49	1690.49	1690.49	1690.49	1690.49
Next BBC frequencies:		673.51	673.51	673.51	673.51	609.51	609.51	609.51	609.51	609.51
Next scan bandwidths:		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00

01 30 00	J1550+0527	13 11 45	32.2	130.9	-2.7		-27.1	0	0	01 30 00
01 34 00	=1548+056	13 15 46	32.7	131.9	-2.6		-26.7	240	31	01 30 01
01 36 20	J1605-1139	13 18 06	15.9	137.0	-2.8		-24.7	63	31	01 36 20
01 37 50	=1602-115	13 19 36	16.0	137.3	-2.8		-24.6	90	43	01 36 21
01 37 50	FRB190520	13 19 36	16.7	137.9	-2.7		-24.2	-15	43	No stop
01 42 20	---	13 24 07	17.2	139.0	-2.7		-23.7	255	77	01 37 51
01 42 50	J1605-1139	13 24 37	16.6	138.5	-2.7		-24.0	16	77	01 42 50
01 44 00	=1602-115	13 25 47	16.7	138.7	-2.7		-23.9	70	86	01 42 51
01 44 00	FRB190520	13 25 47	17.3	139.3	-2.6		-23.5	-14	86	No stop
01 48 30	---	13 30 18	17.8	140.4	-2.5		-23.0	256	121	01 44 01
01 48 30	J1605-1139	13 30 18	17.1	139.8	-2.6		-23.3	-14	121	No stop
01 50 20	=1602-115	13 32 08	17.3	140.2	-2.6		-23.1	96	135	01 48 31
01 50 20	FRB190520	13 32 08	17.9	140.8	-2.5		-22.7	-14	135	No stop
01 54 50	---	13 36 39	18.4	141.9	-2.4		-22.2	256	170	01 50 21
01 55 20	J1605-1139	13 37 09	17.8	141.4	-2.5		-22.5	16	170	01 55 20
01 56 30	=1602-115	13 38 19	17.9	141.7	-2.5		-22.3	70	179	01 55 21
01 56 30	J1603-1007	13 38 19	19.5	141.6	-2.4		-22.3	-20	179	No stop
02 01 00	=1600-099	13 42 50	19.9	142.7	-2.4		-21.7	250	214	01 56 31
02 01 00	J1605-1139	13 42 50	18.3	142.8	-2.4		-21.8	-20	214	No stop
02 02 50	=1602-115	13 44 40	18.5	143.2	-2.4		-21.5	90	228	02 01 01
02 02 50	FRB190520	13 44 40	19.1	143.9	-2.3		-21.2	-14	228	No stop
02 07 20	---	13 49 11	19.5	144.9	-2.2		-20.6	256	263	02 02 51
02 07 50	J1605-1139	13 49 41	18.9	144.4	-2.3		-20.9	16	263	02 07 50
02 09 00	=1602-115	13 50 51	19.0	144.7	-2.3		-20.8	70	272	02 07 51
02 09 00	FRB190520	13 50 51	19.6	145.4	-2.2		-20.4	-14	272	No stop
02 13 30	---	13 55 22	20.0	146.5	-2.1		-19.8	256	307	02 09 01

Schedule for TORUN (Code Tr)
EM161B

Page 3

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun 27 Feb 2022	Day	58	---						
02 13 30	J1605-1139	13 55 22	19.4	145.8	-2.2		-20.2	-14	307	No stop
02 15 20	=1602-115	13 57 12	19.5	146.3	-2.2		-19.9	96	321	02 13 31
02 15 20	FRB190520	13 57 12	20.2	146.9	-2.1		-19.5	-14	321	No stop
02 19 50	---	14 01 43	20.5	148.0	-2.0		-18.9	256	356	02 15 21
02 20 20	J1605-1139	14 02 13	20.0	147.5	-2.1		-19.3	16	356	02 20 20
02 21 30	=1602-115	14 03 23	20.0	147.8	-2.1		-19.1	70	365	02 20 21
02 21 30	FRB190520	14 03 23	20.6	148.4	-2.0		-18.7	-14	365	No stop
02 26 00	---	14 07 54	21.0	149.6	-1.9		-18.1	256	399	02 21 31
02 26 00	J1605-1139	14 07 54	20.4	148.9	-2.0		-18.5	-14	399	No stop
02 27 50	=1602-115	14 09 45	20.5	149.3	-1.9		-18.2	96	414	02 26 01
02 27 50	FRB190520	14 09 45	21.1	150.0	-1.9		-17.8	-14	414	No stop
02 32 20	---	14 14 15	21.5	151.2	-1.8		-17.2	256	448	02 27 51
02 32 50	J1605-1139	14 14 45	20.9	150.6	-1.9		-17.5	16	448	02 32 50
02 34 00	=1602-115	14 15 56	21.0	150.9	-1.8		-17.4	70	457	02 32 51
02 34 00	J1603-1007	14 15 56	22.6	150.9	-1.8		-17.3	-20	457	No stop
02 38 30	=1600-099	14 20 26	22.9	152.0	-1.7		-16.6	250	492	02 34 01
02 38 30	J1605-1139	14 20 26	21.3	152.0	-1.8		-16.7	-20	492	No stop
02 40 20	=1602-115	14 22 17	21.5	152.5	-1.7		-16.5	90	506	02 38 31
02 40 20	FRB190520	14 22 17	22.0	153.2	-1.7		-16.0	-14	506	No stop
02 44 50	---	14 26 47	22.3	154.3	-1.6		-15.4	256	541	02 40 21
02 45 20	J1605-1139	14 27 17	21.8	153.7	-1.7		-15.7	16	541	02 45 20
02 46 30	=1602-115	14 28 28	21.9	154.0	-1.6		-15.6	70	550	02 45 21
02 46 30	FRB190520	14 28 28	22.4	154.8	-1.6		-15.1	-14	550	No stop
02 51 00	---	14 32 58	22.7	155.9	-1.5		-14.5	256	585	02 46 31
02 51 00	J1605-1139	14 32 58	22.2	155.2	-1.6		-14.9	-14	585	No stop
02 52 50	=1602-115	14 34 49	22.3	155.7	-1.5		-14.6	96	599	02 51 01
02 52 50	FRB190520	14 34 49	22.8	156.4	-1.5		-14.2	-14	599	No stop
02 57 20	---	14 39 19	23.1	157.6	-1.4		-13.5	256	634	02 52 51
02 57 50	J1605-1139	14 39 49	22.6	156.9	-1.4		-13.9	17	634	02 57 50
02 59 00	=1602-115	14 41 00	22.7	157.2	-1.4		-13.7	70	643	02 57 51
02 59 00	FRB190520	14 41 00	23.2	158.0	-1.4		-13.3	-14	643	No stop
03 03 30	---	14 45 30	23.4	159.2	-1.3		-12.6	256	678	02 59 01

Schedule for TORUN (Code Tr)
EM161B

Page 4

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 27 Feb 2022 Day 58 ---										
03 03 30	J1605-1139	14 45 30	22.9	158.4	-1.3		-13.0	-13	678	No stop
03 05 20	=1602-115	14 47 21	23.0	158.9	-1.3		-12.8	97	692	03 03 31
03 05 20	FRB190520	14 47 21	23.5	159.6	-1.3		-12.3	-13	692	No stop
03 09 50	---	14 51 51	23.8	160.8	-1.2		-11.6	257	727	03 05 21
03 10 20	J1605-1139	14 52 22	23.3	160.2	-1.2		-12.0	17	727	03 10 20
03 11 30	=1602-115	14 53 32	23.3	160.5	-1.2		-11.8	70	736	03 10 21
03 11 30	J1603-1007	14 53 32	24.9	160.7	-1.2		-11.6	-20	736	No stop
03 16 00	=1600-099	14 58 02	25.1	161.9	-1.1		-10.9	250	770	03 11 31
03 16 00	J1605-1139	14 58 02	23.5	161.7	-1.1		-11.1	-20	770	No stop
03 17 50	=1602-115	14 59 53	23.6	162.2	-1.1		-10.8	90	785	03 16 01
03 17 50	FRB190520	14 59 53	24.1	162.9	-1.1		-10.4	-13	785	No stop
03 22 20	---	15 04 23	24.3	164.1	-1.0		-9.6	257	819	03 17 51
03 22 50	J1605-1139	15 04 54	23.9	163.5	-1.0		-10.0	17	819	03 22 50
03 24 00	=1602-115	15 06 04	23.9	163.8	-1.0		-9.9	70	828	03 22 51
03 24 00	FRB190520	15 06 04	24.4	164.6	-1.0		-9.4	-13	828	No stop
03 28 30	---	15 10 34	24.6	165.8	-0.9		-8.7	257	863	03 24 01
03 28 30	J1605-1139	15 10 34	24.1	165.0	-0.9		-9.1	-13	863	No stop
03 30 20	=1602-115	15 12 25	24.2	165.5	-0.9		-8.9	97	877	03 28 31
03 30 20	FRB190520	15 12 25	24.6	166.3	-0.8		-8.4	-13	877	No stop
03 34 50	---	15 16 56	24.8	167.5	-0.8		-7.6	257	912	03 30 21
03 35 20	J1605-1139	15 17 26	24.3	166.8	-0.8		-8.1	17	912	03 35 20
03 36 30	=1602-115	15 18 36	24.4	167.1	-0.8		-7.9	70	921	03 35 21
03 36 30	FRB190520	15 18 36	24.8	167.9	-0.7		-7.4	-13	921	No stop
03 41 00	---	15 23 07	25.0	169.1	-0.7		-6.6	257	956	03 36 31
03 41 00	J1605-1139	15 23 07	24.5	168.3	-0.7		-7.1	-13	956	No stop
03 42 50	=1602-115	15 24 57	24.6	168.8	-0.7		-6.8	97	970	03 41 01
03 42 50	FRB190520	15 24 57	25.0	169.6	-0.6		-6.3	-13	970	No stop
03 47 20	---	15 29 28	25.1	170.8	-0.6		-5.6	257	1005	03 42 51
03 47 50	J1605-1139	15 29 58	24.7	170.1	-0.6		-6.0	17	1005	03 47 50
03 49 00	=1602-115	15 31 08	24.7	170.5	-0.6		-5.8	70	1014	03 47 51

Schedule for TORUN (Code Tr)

Page 5

EM161B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 27 Feb 2022 Day 58 ---										
03 49 00	J1603-1007	15 31 08	26.3	170.8	-0.6		-5.6	-20	1014	No stop
03 53 30	=1600-099	15 35 39	26.4	172.1	-0.5		-4.8	250	1049	03 49 01
03 53 30	J1605-1139	15 35 39	24.9	171.7	-0.5		-5.1	-19	1049	No stop
03 55 20	=1602-115	15 37 29	24.9	172.2	-0.5		-4.8	91	1063	03 53 31
03 55 20	FRB190520	15 37 29	25.3	173.0	-0.4		-4.3	-13	1063	No stop
03 59 50	---	15 42 00	25.4	174.2	-0.4		-3.5	257	1098	03 55 21
04 00 20	J1605-1139	15 42 30	25.0	173.5	-0.4		-4.0	17	1098	04 00 20
04 01 30	=1602-115	15 43 40	25.0	173.8	-0.4		-3.8	70	1107	04 00 21
04 01 30	FRB190520	15 43 40	25.4	174.7	-0.3		-3.3	-13	1107	No stop
04 06 00	---	15 48 11	25.5	175.9	-0.3		-2.5	257	1141	04 01 31
04 06 00	J1605-1139	15 48 11	25.1	175.0	-0.3		-3.0	-13	1141	No stop
04 07 50	=1602-115	15 50 01	25.1	175.5	-0.3		-2.7	97	1156	04 06 01
04 10 10	J1550+0527	15 52 21	42.3	180.2	0.0		0.1	62	1156	04 10 10
04 14 10	=1548+056	15 56 22	42.3	181.6	0.1		1.0	240	1186	04 10 11
04 16 10	J1605-1139	15 58 22	25.2	177.8	-0.1		-1.3	42	1186	04 16 10
04 17 40	=1602-115	15 59 53	25.2	178.2	-0.1		-1.1	90	1198	04 16 11
04 17 40	FRB190520	15 59 53	25.6	179.1	-0.1		-0.6	-14	1198	No stop
04 22 10	---	16 04 23	25.6	180.3	0.0		0.2	256	1233	04 17 41
04 22 40	J1605-1139	16 04 53	25.2	179.6	-0.0		-0.3	17	1233	04 22 40
04 23 50	=1602-115	16 06 04	25.2	179.9	-0.0		-0.1	70	1242	04 22 41
04 23 50	FRB190520	16 06 04	25.6	180.8	0.0		0.5	-14	1242	No stop
04 28 20	---	16 10 34	25.5	182.0	0.1		1.2	256	1277	04 23 51
04 28 20	J1605-1139	16 10 34	25.2	181.1	0.1		0.7	-13	1277	No stop
04 30 10	=1602-115	16 12 25	25.2	181.6	0.1		1.0	97	1291	04 28 21
04 30 10	FRB190520	16 12 25	25.5	182.5	0.2		1.5	-14	1291	No stop
04 34 40	---	16 16 55	25.5	183.7	0.2		2.3	256	1326	04 30 11
04 35 10	J1605-1139	16 17 25	25.1	183.0	0.2		1.8	17	1326	04 35 10
04 36 20	=1602-115	16 18 36	25.1	183.3	0.2		2.0	70	1335	04 35 11
04 36 20	J1603-1007	16 18 36	26.6	183.9	0.2		2.4	-19	1335	No stop
04 40 50	=1600-099	16 23 06	26.6	185.1	0.3		3.1	251	1369	04 36 21

Schedule for TORUN (Code Tr)
EM161B

Page 6

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 27 Feb 2022 Day 58 ---										
04 40 50	J1605-1139	16 23 06	25.1	184.5	0.3		2.8	-19	1369	No stop
04 42 40	=1602-115	16 24 57	25.1	185.0	0.3		3.1	91	1384	04 40 51
04 42 40	FRB190520	16 24 57	25.4	185.9	0.4		3.6	-14	1384	No stop
04 47 10	---	16 29 27	25.3	187.1	0.4		4.3	256	1418	04 42 41
04 47 40	J1605-1139	16 29 57	25.0	186.3	0.4		3.9	17	1418	04 47 40
04 48 50	=1602-115	16 31 08	25.0	186.7	0.4		4.1	70	1427	04 47 41
04 48 50	FRB190520	16 31 08	25.3	187.6	0.5		4.6	-14	1427	No stop
04 53 20	---	16 35 38	25.2	188.8	0.5		5.4	256	1462	04 48 51
04 53 20	J1605-1139	16 35 38	24.9	187.9	0.5		4.8	-13	1462	No stop
04 55 10	=1602-115	16 37 29	24.8	188.4	0.5		5.1	97	1476	04 53 21
04 55 10	FRB190520	16 37 29	25.1	189.3	0.6		5.7	-14	1476	No stop
04 59 40	---	16 41 59	25.0	190.5	0.6		6.4	256	1511	04 55 11
05 00 10	J1605-1139	16 42 30	24.7	189.7	0.6		5.9	17	1511	05 00 10
05 01 20	=1602-115	16 43 40	24.7	190.0	0.6		6.1	70	1520	05 00 11
05 01 20	FRB190520	16 43 40	25.0	190.9	0.7		6.7	-14	1520	No stop
05 05 50	---	16 48 10	24.8	192.1	0.7		7.4	256	1555	05 01 21
05 05 50	J1605-1139	16 48 10	24.6	191.2	0.7		6.9	-13	1555	No stop
05 07 40	=1602-115	16 50 01	24.5	191.7	0.7		7.2	97	1569	05 05 51
05 07 40	FRB190520	16 50 01	24.8	192.6	0.8		7.7	-14	1569	No stop
05 12 10	---	16 54 32	24.6	193.8	0.9		8.4	256	1604	05 07 41
05 12 40	J1605-1139	16 55 02	24.4	193.1	0.8		8.0	17	1604	05 12 40
05 13 50	=1602-115	16 56 12	24.3	193.4	0.8		8.1	70	1613	05 12 41
05 13 50	J1603-1007	16 56 12	25.8	194.1	0.9		8.6	-19	1613	No stop
05 18 20	=1600-099	17 00 43	25.6	195.4	0.9		9.3	251	1648	05 13 51
05 18 20	J1605-1139	17 00 43	24.2	194.6	0.9		8.9	-19	1648	No stop
05 20 10	=1602-115	17 02 33	24.1	195.1	0.9		9.2	91	1662	05 18 21
05 20 10	FRB190520	17 02 33	24.3	196.0	1.0		9.7	-14	1662	No stop
05 24 40	---	17 07 04	24.1	197.2	1.1		10.4	256	1697	05 20 11
05 25 10	J1605-1139	17 07 34	23.9	196.4	1.0		10.0	17	1697	05 25 10
05 26 20	=1602-115	17 08 44	23.8	196.7	1.0		10.1	70	1706	05 25 11

Schedule for TORUN (Code Tr)

Page 7

EM161B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 27 Feb 2022 Day 58 ---										
05 26 20	FRB190520	17 08 44	24.0	197.6	1.1		10.7	-14	1706	No stop
05 30 50	---	17 13 15	23.8	198.8	1.2		11.4	256	1740	05 26 21
05 30 50	J1605-1139	17 13 15	23.6	197.9	1.1		10.8	-13	1740	No stop
05 32 40	=1602-115	17 15 05	23.5	198.4	1.1		11.1	97	1755	05 30 51
05 32 40	FRB190520	17 15 05	23.7	199.3	1.2		11.7	-14	1755	No stop
05 37 10	---	17 19 36	23.5	200.5	1.3		12.4	256	1789	05 32 41
05 37 40	J1605-1139	17 20 06	23.3	199.7	1.2		11.9	17	1789	05 37 40
05 38 50	=1602-115	17 21 16	23.2	200.0	1.2		12.1	70	1798	05 37 41
05 38 50	FRB190520	17 21 16	23.4	200.9	1.3		12.6	-14	1798	No stop
05 43 20	---	17 25 47	23.2	202.1	1.4		13.3	256	1833	05 38 51
05 43 20	J1605-1139	17 25 47	23.0	201.1	1.3		12.8	-13	1833	No stop
05 45 10	=1602-115	17 27 37	22.9	201.6	1.4		13.1	97	1847	05 43 21
05 45 10	FRB190520	17 27 37	23.1	202.5	1.4		13.6	-14	1847	No stop
05 49 40	---	17 32 08	22.8	203.7	1.5		14.3	256	1882	05 45 11
05 50 10	J1605-1139	17 32 38	22.6	202.9	1.4		13.8	17	1882	05 50 10
05 51 20	=1602-115	17 33 48	22.5	203.2	1.5		14.0	70	1891	05 50 11
05 51 20	J1603-1007	17 33 48	23.9	204.1	1.5		14.4	-18	1891	No stop
05 55 50	=1600-099	17 38 19	23.6	205.3	1.6		15.1	252	1926	05 51 21
05 55 50	J1605-1139	17 38 19	22.3	204.4	1.5		14.7	-19	1926	No stop
05 57 40	=1602-115	17 40 09	22.2	204.8	1.6		14.9	91	1940	05 55 51
05 57 40	FRB190520	17 40 09	22.3	205.8	1.6		15.4	-14	1940	No stop
06 02 10	---	17 44 40	22.0	206.9	1.7		16.1	256	1975	05 57 41
06 02 40	J1605-1139	17 45 10	21.8	206.1	1.6		15.7	17	1975	06 02 40
06 03 50	=1602-115	17 46 20	21.8	206.4	1.7		15.8	70	1984	06 02 41
06 03 50	FRB190520	17 46 20	21.9	207.3	1.7		16.3	-14	1984	No stop
06 08 20	---	17 50 51	21.6	208.5	1.8		17.0	256	2019	06 03 51
06 08 20	J1605-1139	17 50 51	21.4	207.6	1.7		16.5	-13	2019	No stop
06 10 10	=1602-115	17 52 41	21.3	208.0	1.8		16.7	97	2033	06 08 21
06 12 30	J1550+0527	17 55 01	36.0	219.1	2.1		22.4	70	2033	06 12 30
06 16 30	=1548+056	17 59 02	35.7	220.3	2.1		22.9	240	2064	06 12 31

Schedule for TORUN (Code Tr)
EM161B

Page 8

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 27 Feb 2022 Day 58 ---										
06 18 50	J1605-1139	18 01 22	20.7	210.2	1.9		18.0	70	2064	06 18 50
06 20 20	=1602-115	18 02 53	20.6	210.6	1.9		18.2	90	2075	06 18 51
06 20 20	FRB190520	18 02 53	20.7	211.5	2.0		18.7	-14	2075	No stop
06 24 50	---	18 07 23	20.3	212.6	2.1		19.3	256	2110	06 20 21
06 25 20	J1605-1139	18 07 54	20.2	211.8	2.0		18.9	17	2110	06 25 20
06 26 30	=1602-115	18 09 04	20.1	212.1	2.0		19.0	70	2119	06 25 21
06 26 30	FRB190520	18 09 04	20.2	213.0	2.1		19.5	-14	2119	No stop
06 31 00	---	18 13 34	19.8	214.1	2.2		20.1	256	2154	06 26 31
06 31 00	J1605-1139	18 13 34	19.7	213.2	2.1		19.6	-13	2154	No stop
06 32 50	=1602-115	18 15 25	19.6	213.7	2.1		19.9	97	2168	06 31 01
06 32 50	FRB190520	18 15 25	19.6	214.6	2.2		20.3	-14	2168	No stop
06 37 20	---	18 19 56	19.3	215.7	2.3		20.9	256	2203	06 32 51
06 37 50	J1605-1139	18 20 26	19.1	214.9	2.2		20.5	17	2203	06 37 50
06 39 00	=1602-115	18 21 36	19.0	215.2	2.3		20.7	70	2212	06 37 51
06 39 00	J1603-1007	18 21 36	20.3	216.2	2.3		21.1	-18	2212	No stop
06 43 30	=1600-099	18 26 07	19.9	217.3	2.4		21.7	252	2247	06 39 01
06 43 30	J1605-1139	18 26 07	18.7	216.2	2.3		21.3	-18	2247	No stop
06 45 20	=1602-115	18 27 57	18.5	216.7	2.4		21.5	92	2261	06 43 31
06 45 20	FRB190520	18 27 57	18.5	217.6	2.4		21.9	-14	2261	No stop
06 49 50	---	18 32 28	18.1	218.7	2.5		22.5	256	2296	06 45 21
06 50 20	J1605-1139	18 32 58	18.0	217.9	2.4		22.1	17	2296	06 50 20
06 51 30	=1602-115	18 34 08	17.9	218.2	2.5		22.3	70	2305	06 50 21
06 51 30	FRB190520	18 34 08	18.0	219.1	2.5		22.7	-14	2305	No stop
06 56 00	---	18 38 39	17.5	220.2	2.6		23.3	256	2339	06 51 31
06 56 30	J1605-1139	18 39 09	17.5	219.4	2.5		22.9	17	2339	06 56 30
06 57 40	=1602-115	18 40 19	17.3	219.6	2.6		23.0	70	2348	06 56 31
06 57 40	FRB190520	18 40 19	17.4	220.5	2.6		23.5	-14	2348	No stop
07 02 10	---	18 44 50	16.9	221.6	2.7		24.0	256	2383	06 57 41
07 02 10	J1605-1139	18 44 50	16.9	220.7	2.6		23.6	-13	2383	No stop
07 04 00	=1602-115	18 46 40	16.7	221.1	2.7		23.8	97	2397	07 02 11

Schedule for TORUN (Code Tr)
EM161B

Page 9

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 27 Feb 2022 Day 58 ---										
07 04 00	FRB190520	18 46 40	16.7	222.0	2.7		24.2	-14	2397	No stop
07 08 30	---	18 51 11	16.3	223.1	2.8		24.7	256	2432	07 04 01
07 09 00	J1605-1139	18 51 41	16.2	222.3	2.8		24.4	17	2432	07 09 00
07 10 10	=1602-115	18 52 51	16.1	222.6	2.8		24.5	70	2441	07 09 01
07 10 10	J1603-1007	18 52 51	17.3	223.7	2.8		24.9	-17	2441	No stop
07 14 40	=1600-099	18 57 22	16.8	224.8	2.9		25.4	253	2476	07 10 11
07 14 40	J1605-1139	18 57 22	15.6	223.6	2.8		25.0	-18	2476	No stop
07 16 30	=1602-115	18 59 12	15.4	224.0	2.9		25.2	92	2490	07 14 41
07 16 30	FRB190520	18 59 12	15.4	224.9	2.9		25.6	-14	2490	No stop
07 21 00	---	19 03 43	15.0	226.0	3.0		26.1	256	2525	07 16 31
07 21 30	J1605-1139	19 04 13	14.9	225.2	3.0		25.8	17	2525	07 21 30
07 22 40	=1602-115	19 05 23	14.8	225.4	3.0		25.9	70	2534	07 21 31
07 22 40	FRB190520	19 05 23	14.8	226.3	3.0		26.3	-14	2534	No stop
07 27 10	---	19 09 54	14.3	227.4	3.1		26.8	256	2569	07 22 41
07 27 40	J1605-1139	19 10 24	14.3	226.6	3.1		26.5	17	2569	07 27 40
07 28 50	=1602-115	19 11 34	14.1	226.8	3.1		26.6	70	2578	07 27 41
07 28 50	FRB190520	19 11 34	14.1	227.7	3.1		27.0	-14	2578	No stop
07 33 20	---	19 16 05	13.6	228.8	3.2		27.4	256	2612	07 28 51
07 33 20	J1605-1139	19 16 05	13.6	227.9	3.2		27.1	-13	2612	No stop
07 35 10	=1602-115	19 17 55	13.4	228.3	3.2		27.2	97	2627	07 33 21
07 35 10	FRB190520	19 17 55	13.4	229.2	3.2		27.6	-14	2627	No stop
07 39 40	---	19 22 26	12.9	230.2	3.3		28.1	256	2661	07 35 11
07 40 10	J1605-1139	19 22 56	12.9	229.4	3.3		27.7	17	2661	07 40 10
07 41 20	=1602-115	19 24 06	12.7	229.7	3.3		27.9	70	2670	07 40 11
07 41 20	J1603-1007	19 24 06	13.8	230.8	3.3		28.2	-17	2670	No stop
07 45 50	=1600-099	19 28 37	13.3	231.8	3.4		28.7	253	2705	07 41 21
07 45 50	J1605-1139	19 28 37	12.2	230.7	3.4		28.3	-17	2705	No stop
07 47 40	=1602-115	19 30 27	12.0	231.1	3.4		28.5	93	2719	07 45 51
07 47 40	FRB190520	19 30 27	11.9	231.9	3.5		28.8	-14	2719	No stop
07 52 10	---	19 34 58	11.4	232.9	3.5		29.3	256	2754	07 47 41

Schedule for TORUN (Code Tr)
EM161B

Page 10

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

```
-----
Start UT  Source          Start / Stop          Early  Disk  TPStart
Stop UT   LST      EL  AZ  HA  UP  ParA  Dwell  GBytes  SYNC
-----
--- Sun 27 Feb 2022  Day 58 ---

07 52 40  J1605-1139  19 35 28  11.4 232.2  3.5      29.0   17   2754  07 52 40
07 53 50  =1602-115   19 36 38  11.3 232.4  3.5      29.1   70   2763  07 52 41

07 53 50  FRB190520  19 36 38  11.2 233.3  3.6      29.4  -14   2763  No stop
07 58 20  ---         19 41 09  10.6 234.3  3.6      29.8  256   2798  07 53 51

07 58 50  J1605-1139  19 41 39  10.7 233.5  3.6      29.5   17   2798  07 58 50
08 00 00  =1602-115   19 42 49  10.5 233.8  3.6      29.6   70   2807  07 58 51

08 00 00  FRB190520  19 42 49  10.4 234.6  3.7      30.0  -14   2807  No stop
08 04 30  ---         19 47 20   9.9 235.6  3.7      30.4  256   2842  08 00 01

08 04 30  J1605-1139  19 47 20  10.0 234.7  3.7      30.0  -13   2842  No stop
08 06 20  =1602-115   19 49 10   9.7 235.1  3.7      30.2   97   2856  08 04 31

08 06 20  FRB190520  19 49 10   9.7 236.0  3.8      30.5  -14   2856  No stop
08 10 50  ---         19 53 41   9.1 237.0  3.8      30.9  256   2891  08 06 21

08 11 20  J1605-1139  19 54 11   9.1 236.2  3.8      30.6   17   2891  08 11 20
08 12 30  =1602-115   19 55 21   9.0 236.4  3.8      30.7   70   2900  08 11 21

08 14 50  J1550+0527  19 57 42  21.1 249.7  4.1      34.5   80   2900  08 14 50
08 18 50  =1548+056   20 01 42  20.5 250.6  4.2      34.7  240   2931  08 14 51

----- pulsar-check -----

08 18 50  B1933+16    20 01 42  52.9 189.9  0.4       6.2 -135   2931  No stop
08 22 50  ---         20 05 43  52.8 191.5  0.5       7.2  105   2962  08 18 51

08 24 50  J2253+1608  20 07 43  40.8 122.2 -2.8     -31.9 -33   2962  08 24 50
08 30 00  =3C454.3    20 12 54  41.5 123.7 -2.7     -31.4 277   3001  08 24 51

```

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

```
Setup group: 12          Station: TORUN          Total bit rate: 1024
Format: VDIF           Bits per sample: 2      Sample rate: 64.000
Number of channels: 8   DBE type: DBBC_DDC    Speedup factor: 1.00

```

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 9 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 9

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* FRB190520	15 59 18.982299 -11 08 58.93422	* 16 02 04.261100 *-11 17 17.38690	16 03 16.779641 -11 21 00.80060	0.00 0.00
* B1933+16	19 33 31.814330 16 09 57.63427	* 19 35 47.800000 * 16 16 39.90000	19 36 46.278105 16 19 23.05185	0.00 0.00
1548+056	15 48 06.931007	* 15 50 35.269240	15 51 40.450781	0.01
* J1550+0527	05 36 11.23091	* 05 27 10.44845	05 23 02.50088	0.01
J1550+05	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 9440 observations.			
1600-099	16 00 34.687412	* 16 03 18.778244	16 04 30.769481	0.13
* J1603-1007	-09 59 07.60341	*-10 07 21.29503	-10 11 03.06475	0.27
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 134 observations.			
1602-115	16 02 31.767572	* 16 05 17.531656	16 06 30.243724	0.02
* J1605-1139	-11 31 20.63028	*-11 39 26.83112	-11 43 04.74529	0.04
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 2275 observations.			
3C454.3	22 51 29.519739	* 22 53 57.747939	22 55 01.258986	0.65
* J2253+1608	15 52 54.34808	* 16 08 53.56091	16 15 46.54752	0.73
2251+158	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J2253+16	GSFC 2016a X/S astro solution, 41272 observations.			

E-EVN OBSERVATION OF A POSSIBLY IMMINENT MERGER OF SMBH BINARY
PI: *Tao AN*

Address: Shanghai Astronomical Observatory

Observing mode: Phase-referencing

Schedule for TORUN (Code Tr) Page 2

e-EVN observation of a possibly imminent merger of SMBH binary

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

-- Sun 27 Feb 2022 Day 58 --										
Next scan frequencies:		1626.49	1626.49	1626.49	1626.49	1626.49	1690.49	1690.49	1690.49	1690.49
Next BBC frequencies:		673.51	673.51	673.51	673.51	673.51	609.51	609.51	609.51	609.51
Next scan bandwidths:		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00

21 30 00	4C39.25	09 15 02	75.7	169.4	-0.2		-8.2	0	0	21 30 00
21 35 00	---	09 20 03	75.8	173.3	-0.1		-5.1	300	39	21 30 01
21 38 00	J1430+2303	09 23 03	25.8	85.6	-5.1		-40.6	-21	39	21 38 00
21 42 30	---	09 27 34	26.5	86.5	-5.1		-40.6	249	73	21 38 01
21 42 30	P1427+2348	09 27 34	27.6	86.6	-5.0		-40.9	-17	73	No stop
21 44 00	---	09 29 04	27.8	86.9	-5.0		-40.9	73	85	21 42 31
21 44 00	J1430+2303	09 29 04	26.7	86.8	-5.0		-40.6	-17	85	No stop
21 48 30	---	09 33 35	27.4	87.6	-5.0		-40.7	253	120	21 44 01
21 49 20	P1427+2348	09 34 25	28.6	87.9	-4.9		-40.9	33	120	21 49 20
21 50 50	---	09 35 56	28.8	88.2	-4.9		-41.0	90	131	21 49 21
21 50 50	J1430+2303	09 35 56	27.8	88.1	-4.9		-40.7	-17	131	No stop
21 55 20	---	09 40 26	28.4	89.0	-4.8		-40.7	253	166	21 50 51
21 55 20	P1427+2348	09 40 26	29.5	89.1	-4.8		-41.0	-17	166	No stop
21 56 50	---	09 41 57	29.7	89.4	-4.8		-41.0	73	178	21 55 21
21 56 50	J1430+2303	09 41 57	28.7	89.3	-4.8		-40.7	-17	178	No stop
22 01 20	---	09 46 27	29.3	90.2	-4.7		-40.7	253	213	21 56 51
22 01 20	P1427+2348	09 46 27	30.4	90.3	-4.7		-41.0	-17	213	No stop
22 02 50	---	09 47 58	30.6	90.6	-4.7		-41.0	73	224	22 01 21
22 03 30	J1430+2303	09 48 38	29.7	90.6	-4.7		-40.7	23	224	22 03 30
22 06 30	---	09 51 38	30.1	91.2	-4.7		-40.7	180	247	22 03 31
22 06 30	P1427+2348	09 51 38	31.2	91.3	-4.6		-41.0	-17	247	No stop
22 08 00	---	09 53 08	31.4	91.6	-4.6		-41.0	73	259	22 06 31
22 08 00	J1430+2303	09 53 08	30.3	91.5	-4.6		-40.7	-17	259	No stop
22 12 30	---	09 57 39	31.0	92.5	-4.6		-40.7	253	294	22 08 01
22 12 30	P1427+2348	09 57 39	32.1	92.6	-4.5		-40.9	-17	294	No stop
22 14 00	---	09 59 09	32.3	92.9	-4.5		-40.9	73	305	22 12 31

Schedule for TORUN (Code Tr)

Page 3

e-EVN observation of a possibly imminent merger of SMBH binary

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC
---	Sun 27 Feb 2022	Day	58	---						
22 14 00	J1430+2303	09 59 09	31.3	92.8	-4.5		-40.6	-17	305	No stop
22 18 30	---	10 03 40	31.9	93.7	-4.5		-40.6	253	340	22 14 01
22 19 20	P1427+2348	10 04 30	33.1	94.0	-4.4		-40.9	33	340	22 19 20
22 20 50	---	10 06 01	33.3	94.3	-4.4		-40.8	90	352	22 19 21
22 20 50	J1430+2303	10 06 01	32.3	94.2	-4.4		-40.6	-17	352	No stop
22 25 20	---	10 10 31	33.0	95.1	-4.3		-40.5	253	386	22 20 51
22 25 20	P1427+2348	10 10 31	34.0	95.2	-4.3		-40.8	-17	386	No stop
22 26 50	---	10 12 01	34.2	95.5	-4.3		-40.7	73	398	22 25 21
22 26 50	J1430+2303	10 12 01	33.2	95.4	-4.3		-40.5	-17	398	No stop
22 31 20	---	10 16 32	33.9	96.4	-4.2		-40.4	253	433	22 26 51
22 31 20	P1427+2348	10 16 32	34.9	96.5	-4.2		-40.7	-17	433	No stop
22 32 50	---	10 18 02	35.1	96.8	-4.2		-40.6	73	444	22 31 21
22 33 30	J1430+2303	10 18 43	34.2	96.8	-4.2		-40.4	23	444	22 33 30
22 36 30	---	10 21 43	34.6	97.5	-4.2		-40.3	180	468	22 33 31
22 36 30	P1427+2348	10 21 43	35.7	97.6	-4.1		-40.5	-17	468	No stop
22 38 00	---	10 23 13	35.9	97.9	-4.1		-40.5	73	479	22 36 31
22 38 00	J1430+2303	10 23 13	34.8	97.8	-4.1		-40.3	-17	479	No stop
22 42 30	---	10 27 44	35.5	98.8	-4.1		-40.1	253	514	22 38 01
22 42 30	P1427+2348	10 27 44	36.6	98.9	-4.0		-40.4	-17	514	No stop
22 44 00	---	10 29 14	36.8	99.2	-4.0		-40.3	73	526	22 42 31
22 44 00	J1430+2303	10 29 14	35.7	99.1	-4.0		-40.1	-17	526	No stop
22 48 30	---	10 33 45	36.4	100.1	-4.0		-39.9	253	560	22 44 01
22 49 20	P1427+2348	10 34 35	37.6	100.4	-3.9		-40.2	33	560	22 49 20
22 50 50	---	10 36 05	37.8	100.7	-3.9		-40.1	90	572	22 49 21
22 50 50	J1430+2303	10 36 05	36.8	100.6	-3.9		-39.9	-17	572	No stop
22 55 20	---	10 40 36	37.4	101.6	-3.8		-39.7	253	607	22 50 51
22 55 20	P1427+2348	10 40 36	38.5	101.7	-3.8		-39.9	-17	607	No stop
22 56 50	---	10 42 06	38.7	102.1	-3.8		-39.9	73	618	22 55 21
22 56 50	J1430+2303	10 42 06	37.6	101.9	-3.8		-39.6	-17	618	No stop
23 01 20	---	10 46 37	38.3	102.9	-3.7		-39.5	253	653	22 56 51
23 01 20	P1427+2348	10 46 37	39.3	103.1	-3.7		-39.7	-17	653	No stop
23 02 50	---	10 48 07	39.6	103.4	-3.7		-39.6	73	665	23 01 21

Schedule for TORUN (Code Tr)

Page 4

e-EVN observation of a possibly imminent merger of SMBH binary

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC	

---	Sun 27 Feb 2022	Day	58	---							
23 03 30	J1430+2303	10 48 48	38.6	103.4	-3.7		-39.4	23	665	23 03 30	
23 06 30	---	10 51 48	39.1	104.1	-3.7		-39.2	180	688	23 03 31	
23 06 30	P1427+2348	10 51 48	40.1	104.3	-3.6		-39.5	-17	688	No stop	
23 08 00	---	10 53 18	40.3	104.6	-3.6		-39.4	73	699	23 06 31	
23 08 00	J1430+2303	10 53 18	39.3	104.5	-3.6		-39.2	-17	699	No stop	
23 12 30	---	10 57 49	39.9	105.5	-3.6		-38.9	253	734	23 08 01	
23 12 30	P1427+2348	10 57 49	41.0	105.7	-3.5		-39.2	-17	734	No stop	
23 14 00	---	10 59 19	41.2	106.0	-3.5		-39.1	73	746	23 12 31	
23 14 00	J1430+2303	10 59 19	40.1	105.9	-3.5		-38.9	-17	746	No stop	
23 18 30	---	11 03 50	40.8	106.9	-3.5		-38.6	253	781	23 14 01	
23 19 20	P1427+2348	11 04 40	42.0	107.3	-3.4		-38.8	33	781	23 19 20	
23 20 50	---	11 06 10	42.2	107.7	-3.4		-38.7	90	792	23 19 21	
23 20 50	J1430+2303	11 06 10	41.1	107.5	-3.4		-38.5	-17	792	No stop	
23 25 20	---	11 10 41	41.8	108.6	-3.3		-38.2	253	827	23 20 51	
23 25 20	P1427+2348	11 10 41	42.8	108.8	-3.3		-38.4	-17	827	No stop	
23 26 50	---	11 12 11	43.0	109.1	-3.3		-38.3	73	839	23 25 21	
23 26 50	J1430+2303	11 12 11	42.0	108.9	-3.3		-38.1	-17	839	No stop	
23 31 20	---	11 16 42	42.6	110.0	-3.2		-37.8	253	873	23 26 51	
23 31 20	P1427+2348	11 16 42	43.7	110.2	-3.2		-38.0	-17	873	No stop	
23 32 50	---	11 18 12	43.9	110.6	-3.2		-37.9	73	885	23 31 21	
23 33 30	J1430+2303	11 18 52	42.9	110.6	-3.2		-37.6	23	885	23 33 30	
23 36 30	---	11 21 53	43.4	111.3	-3.2		-37.4	180	908	23 33 31	
23 36 30	P1427+2348	11 21 53	44.4	111.5	-3.1		-37.6	-17	908	No stop	
23 38 00	---	11 23 23	44.6	111.9	-3.1		-37.5	73	920	23 36 31	
23 38 00	J1430+2303	11 23 23	43.6	111.7	-3.1		-37.3	-17	920	No stop	
23 42 30	---	11 27 54	44.2	112.9	-3.1		-36.9	253	955	23 38 01	
23 42 30	P1427+2348	11 27 54	45.2	113.1	-3.0		-37.1	-17	955	No stop	
23 44 00	---	11 29 24	45.4	113.5	-3.0		-37.0	73	966	23 42 31	
23 44 00	J1430+2303	11 29 24	44.4	113.3	-3.0		-36.8	-17	966	No stop	
23 48 30	---	11 33 55	45.0	114.4	-3.0		-36.4	253	1001	23 44 01	

Schedule for TORUN (Code Tr)

Page 5

e-EVN observation of a possibly imminent merger of SMBH binary

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 27 Feb 2022 Day 58 ---										
23 49 20	P1427+2348	11 34 45	46.2	114.9	-2.9		-36.5	33	1001	23 49 20
23 50 50	---	11 36 15	46.4	115.3	-2.9		-36.4	90	1013	23 49 21
23 50 50	J1430+2303	11 36 15	45.3	115.0	-2.9		-36.2	-17	1013	No stop
23 55 20	---	11 40 46	46.0	116.2	-2.8		-35.8	253	1047	23 50 51
23 55 20	P1427+2348	11 40 46	47.0	116.5	-2.8		-35.9	-17	1047	No stop
23 56 50	---	11 42 16	47.2	116.9	-2.8		-35.8	73	1059	23 55 21
--- Start: Sun 27 Feb 2022 Day 58 -- Stop: Mon 28 Feb 2022 Day 59 ---										
23 56 50	J1430+2303	11 42 16	46.2	116.7	-2.8		-35.7	-17	1059	No stop
00 01 20	---	11 46 47	46.8	117.9	-2.7		-35.2	253	1094	23 56 51
00 01 20	P1427+2348	11 46 47	47.8	118.2	-2.7		-35.3	-17	1094	No stop
00 02 50	---	11 48 17	48.0	118.6	-2.7		-35.2	73	1105	00 01 21
00 03 30	J1430+2303	11 48 57	47.0	118.5	-2.7		-35.0	23	1105	00 03 30
00 06 30	---	11 51 58	47.4	119.3	-2.7		-34.7	180	1128	00 03 31
00 06 30	P1427+2348	11 51 58	48.5	119.6	-2.6		-34.8	-17	1128	No stop
00 08 00	---	11 53 28	48.7	120.0	-2.6		-34.6	73	1140	00 06 31
00 10 00	3C345	11 55 28	40.8	75.1	-4.8		-49.0	15	1140	00 10 00
00 15 00	---	12 00 29	41.5	75.9	-4.7		-49.3	300	1179	00 10 01
00 16 30	P1427+2348	12 02 00	49.8	122.5	-2.4		-33.6	-18	1179	00 16 30
00 18 00	---	12 03 30	50.0	123.0	-2.4		-33.4	72	1190	00 16 31
00 18 00	J1430+2303	12 03 30	48.9	122.6	-2.5		-33.3	-17	1190	No stop
00 22 30	---	12 08 00	49.5	124.0	-2.4		-32.7	253	1225	00 18 01
00 22 30	P1427+2348	12 08 00	50.5	124.3	-2.3		-32.8	-17	1225	No stop
00 24 00	---	12 09 31	50.7	124.8	-2.3		-32.6	73	1237	00 22 31
00 24 00	J1430+2303	12 09 31	49.7	124.4	-2.4		-32.6	-17	1237	No stop
00 28 30	---	12 14 01	50.2	125.8	-2.3		-31.9	253	1271	00 24 01
00 29 20	P1427+2348	12 14 52	51.4	126.4	-2.2		-31.9	33	1271	00 29 20
00 30 50	---	12 16 22	51.5	126.9	-2.2		-31.6	90	1283	00 29 21
00 30 50	J1430+2303	12 16 22	50.5	126.5	-2.2		-31.6	-17	1283	No stop
00 35 20	---	12 20 53	51.1	127.9	-2.2		-31.0	253	1318	00 30 51

Schedule for TORUN (Code Tr)

Page 6

e-EVN observation of a possibly imminent merger of SMBH binary

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon 28 Feb 2022	Day	59	---						
00 35 20	P1427+2348	12 20 53	52.1	128.3	-2.1		-31.0	-17	1318	No stop
00 36 50	---	12 22 23	52.2	128.8	-2.1		-30.7	73	1329	00 35 21
00 36 50	J1430+2303	12 22 23	51.2	128.4	-2.1		-30.8	-17	1329	No stop
00 41 20	---	12 26 54	51.8	129.8	-2.1		-30.1	253	1364	00 36 51
00 41 20	P1427+2348	12 26 54	52.8	130.3	-2.0		-30.0	-17	1364	No stop
00 42 50	---	12 28 24	52.9	130.8	-2.0		-29.8	73	1376	00 41 21
00 43 30	J1430+2303	12 29 04	52.0	130.5	-2.0		-29.7	24	1376	00 43 30
00 46 30	---	12 32 04	52.3	131.5	-2.0		-29.2	180	1399	00 43 31
00 46 30	P1427+2348	12 32 04	53.4	132.0	-1.9		-29.2	-17	1399	No stop
00 48 00	---	12 33 35	53.5	132.5	-1.9		-28.9	73	1411	00 46 31
00 48 00	J1430+2303	12 33 35	52.5	132.0	-2.0		-29.0	-16	1411	No stop
00 52 30	---	12 38 05	53.0	133.5	-1.9		-28.2	254	1445	00 48 01
00 52 30	P1427+2348	12 38 05	54.0	134.0	-1.8		-28.1	-17	1445	No stop
00 54 00	---	12 39 36	54.2	134.5	-1.8		-27.9	73	1457	00 52 31
00 54 00	J1430+2303	12 39 36	53.2	134.0	-1.9		-28.0	-16	1457	No stop
00 58 30	---	12 44 06	53.7	135.5	-1.8		-27.2	254	1492	00 54 01
00 59 20	P1427+2348	12 44 57	54.7	136.4	-1.7		-26.9	33	1492	00 59 20
01 00 50	---	12 46 27	54.9	136.9	-1.7		-26.6	90	1503	00 59 21
01 00 50	J1430+2303	12 46 27	53.9	136.4	-1.7		-26.8	-16	1503	No stop
01 05 20	---	12 50 58	54.4	137.9	-1.7		-25.9	254	1538	01 00 51
01 05 20	P1427+2348	12 50 58	55.4	138.6	-1.6		-25.7	-17	1538	No stop
01 06 50	---	12 52 28	55.5	139.1	-1.6		-25.4	73	1550	01 05 21
01 06 50	J1430+2303	12 52 28	54.5	138.5	-1.6		-25.6	-16	1550	No stop
01 11 20	---	12 56 59	55.0	140.1	-1.6		-24.7	254	1584	01 06 51
01 11 20	P1427+2348	12 56 59	55.9	140.8	-1.5		-24.5	-17	1584	No stop
01 12 50	---	12 58 29	56.1	141.3	-1.5		-24.2	73	1596	01 11 21
01 13 30	J1430+2303	12 59 09	55.2	140.9	-1.5		-24.3	24	1596	01 13 30
01 16 30	---	13 02 09	55.4	142.0	-1.5		-23.7	180	1619	01 13 31
01 16 30	P1427+2348	13 02 09	56.4	142.7	-1.4		-23.4	-16	1619	No stop
01 18 00	---	13 03 40	56.6	143.3	-1.4		-23.1	74	1631	01 16 31

Schedule for TORUN (Code Tr)

Page 7

e-EVN observation of a possibly imminent merger of SMBH binary

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon	28 Feb 2022	Day	59	---					
01 18 00	J1430+2303	13 03 40	55.6	142.6	-1.5		-23.3	-16	1631	No stop
01 22 30	---	13 08 10	56.0	144.3	-1.4		-22.4	254	1666	01 18 01
01 22 30	P1427+2348	13 08 10	57.0	145.0	-1.3		-22.1	-16	1666	No stop
01 24 00	---	13 09 41	57.1	145.6	-1.3		-21.7	74	1677	01 22 31
01 24 00	J1430+2303	13 09 41	56.1	144.9	-1.4		-22.1	-16	1677	No stop
01 28 30	---	13 14 11	56.5	146.6	-1.3		-21.0	254	1712	01 24 01
01 29 20	P1427+2348	13 15 01	57.5	147.7	-1.2		-20.5	34	1712	01 29 20
01 30 50	---	13 16 32	57.6	148.3	-1.2		-20.1	90	1724	01 29 21
01 30 50	J1430+2303	13 16 32	56.7	147.5	-1.2		-20.5	-16	1724	No stop
01 35 20	---	13 21 02	57.0	149.3	-1.2		-19.5	254	1758	01 30 51
01 35 20	P1427+2348	13 21 02	58.0	150.2	-1.1		-19.0	-16	1758	No stop
01 36 50	---	13 22 33	58.1	150.8	-1.1		-18.7	74	1770	01 35 21
01 36 50	J1430+2303	13 22 33	57.2	149.9	-1.1		-19.1	-16	1770	No stop
01 41 20	---	13 27 03	57.5	151.7	-1.1		-18.0	254	1805	01 36 51
01 41 20	P1427+2348	13 27 03	58.4	152.6	-1.0		-17.5	-16	1805	No stop
01 42 50	---	13 28 34	58.5	153.3	-1.0		-17.2	74	1816	01 41 21
01 43 30	J1430+2303	13 29 14	57.6	152.6	-1.0		-17.5	24	1816	01 43 30
01 46 30	---	13 32 14	57.8	153.8	-1.0		-16.7	180	1840	01 43 31
01 46 30	P1427+2348	13 32 14	58.8	154.8	-0.9		-16.2	-16	1840	No stop
01 48 00	---	13 33 45	58.9	155.5	-0.9		-15.8	74	1851	01 46 31
01 48 00	J1430+2303	13 33 45	57.9	154.5	-1.0		-16.3	-16	1851	No stop
01 52 30	---	13 38 15	58.2	156.4	-0.9		-15.2	254	1886	01 48 01
01 52 30	P1427+2348	13 38 15	59.1	157.4	-0.8		-14.6	-16	1886	No stop
01 54 00	---	13 39 46	59.2	158.0	-0.8		-14.2	74	1898	01 52 31
01 54 00	J1430+2303	13 39 46	58.3	157.0	-0.9		-14.8	-16	1898	No stop
01 58 30	---	13 44 16	58.6	158.9	-0.8		-13.6	254	1932	01 54 01
01 59 20	P1427+2348	13 45 06	59.5	160.4	-0.7		-12.7	34	1932	01 59 20
02 00 50	---	13 46 37	59.6	161.0	-0.7		-12.3	90	1944	01 59 21
02 00 50	J1430+2303	13 46 37	58.7	159.9	-0.7		-12.9	-16	1944	No stop
02 05 20	---	13 51 07	58.9	161.9	-0.7		-11.7	254	1979	02 00 51

Schedule for TORUN (Code Tr)

Page 8

e-EVN observation of a possibly imminent merger of SMBH binary

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon	28 Feb 2022	Day	59	---					
02 05 20	P1427+2348	13 51 07	59.8	163.0	-0.6		-11.0	-16	1979	No stop
02 06 50	---	13 52 38	59.8	163.7	-0.6		-10.6	74	1990	02 05 21
02 06 50	J1430+2303	13 52 38	59.0	162.5	-0.6		-11.3	-16	1990	No stop
02 11 20	---	13 57 08	59.2	164.5	-0.6		-10.0	254	2025	02 06 51
02 11 20	P1427+2348	13 57 08	60.0	165.7	-0.5		-9.3	-16	2025	No stop
02 12 50	---	13 58 39	60.1	166.4	-0.5		-8.9	74	2037	02 11 21
02 13 30	J1430+2303	13 59 19	59.3	165.5	-0.5		-9.4	24	2037	02 13 30
02 16 30	---	14 02 19	59.4	166.8	-0.5		-8.5	180	2060	02 13 31
02 16 30	P1427+2348	14 02 19	60.2	168.1	-0.4		-7.8	-16	2060	No stop
02 18 00	---	14 03 49	60.2	168.8	-0.4		-7.3	74	2071	02 16 31
02 18 00	J1430+2303	14 03 49	59.4	167.5	-0.5		-8.1	-15	2071	No stop
02 22 30	---	14 08 20	59.6	169.5	-0.4		-6.8	255	2106	02 18 01
02 22 30	P1427+2348	14 08 20	60.4	170.9	-0.3		-6.0	-16	2106	No stop
02 24 00	---	14 09 50	60.4	171.6	-0.3		-5.5	74	2118	02 22 31
02 24 00	J1430+2303	14 09 50	59.6	170.2	-0.4		-6.4	-15	2118	No stop
02 28 30	---	14 14 21	59.7	172.3	-0.3		-5.0	255	2153	02 24 01
02 29 20	P1427+2348	14 15 11	60.5	174.0	-0.2		-3.9	34	2153	02 29 20
02 30 50	---	14 16 42	60.5	174.7	-0.2		-3.5	90	2164	02 29 21
02 30 50	J1430+2303	14 16 42	59.7	173.3	-0.2		-4.3	-15	2164	No stop
02 35 20	---	14 21 12	59.8	175.4	-0.2		-3.0	255	2199	02 30 51
02 35 20	P1427+2348	14 21 12	60.6	176.8	-0.1		-2.1	-16	2199	No stop
02 36 50	---	14 22 43	60.6	177.5	-0.1		-1.6	74	2211	02 35 21
02 36 50	J1430+2303	14 22 43	59.8	176.1	-0.1		-2.6	-15	2211	No stop
02 41 20	---	14 27 13	59.9	178.1	-0.1		-1.2	255	2245	02 36 51
02 41 20	P1427+2348	14 27 13	60.6	179.6	-0.0		-0.2	-16	2245	No stop
02 42 50	---	14 28 44	60.6	180.3	0.0		0.2	74	2257	02 41 21
02 43 30	J1430+2303	14 29 24	59.9	179.1	-0.0		-0.6	24	2257	02 43 30
02 46 30	---	14 32 24	59.9	180.5	0.0		0.3	180	2280	02 43 31
02 46 30	P1427+2348	14 32 24	60.6	182.0	0.1		1.3	-16	2280	No stop
02 48 00	---	14 33 54	60.6	182.7	0.1		1.8	74	2292	02 46 31

Schedule for TORUN (Code Tr)

Page 9

e-EVN observation of a possibly imminent merger of SMBH binary

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

```
-----
Start UT  Source          Start / Stop          Early   Disk   TPStart
Stop UT          LST      EL    AZ    HA  UP   ParA Dwell  GBytes  SYNC
-----
```

--- Mon 28 Feb 2022 Day 59 ---

```
02 48 00  J1430+2303  14 33 54  59.9 181.2  0.0      0.8  -16   2292  No stop
02 52 30  ---          14 38 25  59.8 183.3  0.1      2.1  254   2326  02 48 01

02 52 30  P1427+2348  14 38 25  60.5 184.8  0.2      3.2  -17   2326  No stop
02 54 00  ---          14 39 55  60.5 185.5  0.2      3.6   73   2338  02 52 31

02 55 00  3C345       14 40 56  65.3 110.2 -2.0     -47.1 -105  2338  02 55 00
03 00 00  ---          14 45 56  66.0 111.8 -2.0     -46.5  195  2377  02 55 01
```

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

```
Setup group:   12          Station: TORUN          Total bit rate: 1024
Format: VDIF          Bits per sample: 2      Sample rate: 64.000
Number of channels: 8    DBE type: DBBC_DDC    Speedup factor: 1.00
```

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 4 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 4

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* J1430+2303	14 27 59.601806	* 14 30 16.055000	14 31 16.596793	0.00
	23 17 02.67583	* 23 03 45.47000	22 57 41.15066	0.00
	from FIRST survey, ~ 1 mJy			
* P1427+2348	14 24 44.222647	* 14 27 00.391800	14 28 00.833226	0.00
	24 01 25.78988	* 23 48 00.03800	23 41 51.89033	0.00
	1.05 deg, S-K >100 mJy			
* 4C39.25	09 23 55.319216	* 09 27 03.013937	09 28 26.794070	0.31
J0927+3902	39 15 23.56644	* 39 02 20.85185	38 56 35.74524	0.16
0923+392	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J0927+39	GSFC 2016a X/S astro solution, 250526 observations.			
* 3C345	16 41 17.606229	* 16 42 58.809967	16 43 43.111234	0.79
J1642+3948	39 54 10.81492	* 39 48 36.99399	39 45 49.57111	0.59
1641+399	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1642+39	GSFC 2016a X/S astro solution, 53724 observations.			

MAPPING EVN PRIMARY BEAMS
 PI: Jack Radcliffe

Address: Physics Department

Observing mode:

Schedule for TORUN (Code Tr)

Page 2

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

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TPStart: Recording start time. Frequencies are LO sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Mon 28 Feb 2022 Day 59 ---										
Next scan frequencies:		1610.49	1610.49	1610.49	1610.49	1610.49	1642.49	1642.49	1642.49	1642.49
		1674.49	1674.49	1674.49	1674.49	1674.49	1706.49	1706.49	1706.49	1706.49
Next BBC frequencies:		689.51	689.51	689.51	689.51	689.51	657.51	657.51	657.51	657.51
		625.51	625.51	625.51	625.51	625.51	593.51	593.51	593.51	593.51
Next scan bandwidths:		16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
		16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

03 30 00	3C345	15 16 01	70.0	123.0	-1.5		-41.0	0	0	03 30 00
03 36 30	---	15 22 32	70.8	125.8	-1.4		-39.3	390	50	03 30 01

03 45 30	J1048+7143	15 31 34	55.3	-31.5	4.7		83.9	210	50	03 45 30
03 50 50	=1044+719	15 36 55	54.9	-31.4	4.8		82.7	320	91	03 45 31

03 50 50	P-8-8	15 36 55	54.8	-31.6	4.8		82.1	-10	91	No stop
03 53 15	---	15 39 20	54.6	-31.6	4.8		81.6	135	110	03 50 51

03 53 15	P-6-8	15 39 20	54.6	-31.6	4.8		81.7	-7	110	No stop
03 55 40	---	15 41 46	54.4	-31.5	4.9		81.1	138	129	03 53 16

03 55 40	P-4-8	15 41 46	54.4	-31.5	4.9		81.2	-7	129	No stop
03 58 05	---	15 44 11	54.3	-31.5	4.9		80.7	138	147	03 55 41

03 58 05	P-2-8	15 44 11	54.3	-31.5	4.9		80.8	-7	147	No stop
04 00 30	---	15 46 36	54.1	-31.4	4.9		80.3	138	166	03 58 06

04 00 30	J1048+7143	15 46 36	54.2	-31.2	4.9		80.5	-9	166	No stop
04 02 55	=1044+719	15 49 02	54.0	-31.2	5.0		80.0	136	185	04 00 31

04 02 55	P+0-8	15 49 02	53.9	-31.4	5.0		79.8	-9	185	No stop
04 05 20	---	15 51 27	53.8	-31.3	5.0		79.3	136	204	04 02 56

04 05 20	P+2-8	15 51 27	53.7	-31.3	5.0		79.2	-7	204	No stop
04 07 45	---	15 53 52	53.5	-31.2	5.1		78.7	138	222	04 05 21

04 07 45	P+4-8	15 53 52	53.5	-31.2	5.1		78.6	-7	222	No stop
04 10 10	---	15 56 18	53.3	-31.2	5.1		78.1	138	241	04 07 46

04 10 10	P+6-8	15 56 18	53.3	-31.2	5.1		78.0	-7	241	No stop
04 12 35	---	15 58 43	53.1	-31.1	5.2		77.4	138	260	04 10 11

04 12 35	J1048+7143	15 58 43	53.2	-30.9	5.1		77.9	-9	260	No stop
04 15 00	=1044+719	16 01 09	53.0	-30.8	5.2		77.4	136	278	04 12 36

Schedule for TORUN (Code Tr)

Page 3

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon 28 Feb 2022	Day	59	---						
04 15 00	P+8-8	16 01 09	52.9	-31.0	5.2		76.8	-10	278	No stop
04 17 25	---	16 03 34	52.7	-30.9	5.3		76.3	135	297	04 15 01
04 17 25	P-8-6	16 03 34	52.7	-30.9	5.3		76.4	-7	297	No stop
04 19 50	---	16 05 59	52.5	-30.8	5.3		75.9	138	316	04 17 26
04 19 50	P-6-6	16 05 59	52.5	-30.8	5.3		75.9	-7	316	No stop
04 22 15	---	16 08 25	52.4	-30.7	5.3		75.4	138	334	04 19 51
04 22 15	P-4-6	16 08 25	52.4	-30.8	5.3		75.5	-7	334	No stop
04 24 40	---	16 10 50	52.2	-30.7	5.4		75.0	138	353	04 22 16
04 24 40	J1048+7143	16 10 50	52.3	-30.5	5.3		75.3	-8	353	No stop
04 27 05	=1044+719	16 13 16	52.1	-30.5	5.4		74.8	137	372	04 24 41
04 27 05	P-2-6	16 13 16	52.0	-30.6	5.4		74.6	-8	372	No stop
04 29 30	---	16 15 41	51.9	-30.5	5.4		74.1	137	390	04 27 06
04 29 30	P+0-6	16 15 41	51.9	-30.5	5.4		74.2	-7	390	No stop
04 31 55	---	16 18 06	51.7	-30.5	5.5		73.7	138	409	04 29 31
04 31 55	P+2-6	16 18 06	51.7	-30.4	5.5		73.6	-7	409	No stop
04 34 20	---	16 20 32	51.5	-30.3	5.5		73.1	138	428	04 31 56
04 34 20	P+4-6	16 20 32	51.5	-30.3	5.5		73.0	-7	428	No stop
04 36 45	---	16 22 57	51.3	-30.2	5.6		72.5	138	446	04 34 21
04 36 45	J1048+7143	16 22 57	51.4	-30.1	5.5		72.8	-8	446	No stop
04 39 10	=1044+719	16 25 23	51.2	-30.0	5.6		72.3	137	465	04 36 46
04 39 10	P+6-6	16 25 23	51.1	-30.1	5.6		71.9	-9	465	No stop
04 41 35	---	16 27 48	50.9	-30.0	5.6		71.4	136	484	04 39 11
04 41 35	P+8-6	16 27 48	50.8	-30.0	5.7		71.3	-7	484	No stop
04 44 00	---	16 30 13	50.7	-29.9	5.7		70.8	138	502	04 41 36
04 44 00	P-8-4	16 30 13	50.7	-29.9	5.7		70.8	-7	502	No stop
04 46 25	---	16 32 39	50.5	-29.8	5.7		70.3	138	521	04 44 01
04 46 25	P-6-4	16 32 39	50.5	-29.8	5.7		70.4	-7	521	No stop
04 48 50	---	16 35 04	50.3	-29.7	5.8		69.9	138	540	04 46 26
04 48 50	J1048+7143	16 35 04	50.5	-29.6	5.7		70.3	-9	540	No stop
04 51 15	=1044+719	16 37 30	50.3	-29.5	5.8		69.8	136	558	04 48 51
04 51 15	P-4-4	16 37 30	50.2	-29.6	5.8		69.5	-8	558	No stop
04 53 40	---	16 39 55	50.0	-29.5	5.8		69.0	137	577	04 51 16

Schedule for TORUN (Code Tr)

Page 4

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon	28 Feb 2022	Day	59	---					
04 53 40	P-2-4	16 39 55	50.1	-29.5	5.8		69.1	-7	577	No stop
04 56 05	---	16 42 20	49.9	-29.4	5.9		68.6	138	596	04 53 41
04 56 05	P+0-4	16 42 20	49.9	-29.4	5.9		68.7	-7	596	No stop
04 58 30	---	16 44 46	49.7	-29.3	5.9		68.2	138	614	04 56 06
04 58 30	P+2-4	16 44 46	49.7	-29.3	5.9		68.1	-7	614	No stop
05 00 55	---	16 47 11	49.5	-29.2	6.0		67.6	138	633	04 58 31
05 00 55	J1048+7143	16 47 11	49.6	-29.1	6.0		67.8	-8	633	No stop
05 03 20	=1044+719	16 49 37	49.4	-29.0	6.0		67.3	137	652	05 00 56
05 03 20	P+4-4	16 49 37	49.3	-29.0	6.0		67.1	-8	652	No stop
05 05 45	---	16 52 02	49.1	-28.9	6.0		66.6	137	671	05 03 21
05 05 45	P+6-4	16 52 02	49.1	-28.9	6.1		66.5	-7	671	No stop
05 08 10	---	16 54 27	48.9	-28.8	6.1		66.0	138	689	05 05 46
05 08 10	P+8-4	16 54 27	48.9	-28.8	6.1		65.9	-7	689	No stop
05 10 35	---	16 56 53	48.7	-28.7	6.1		65.4	138	708	05 08 11
05 10 35	P-8-2	16 56 53	48.7	-28.6	6.1		65.5	-7	708	No stop
05 13 00	---	16 59 18	48.6	-28.5	6.2		65.0	138	727	05 10 36
05 13 00	J1048+7143	16 59 18	48.7	-28.5	6.2		65.4	-9	727	No stop
05 15 25	=1044+719	17 01 44	48.5	-28.4	6.2		64.9	136	745	05 13 01
05 15 25	P-6-2	17 01 44	48.4	-28.4	6.2		64.6	-9	745	No stop
05 17 50	---	17 04 09	48.2	-28.3	6.3		64.1	136	764	05 15 26
05 17 50	P-4-2	17 04 09	48.3	-28.3	6.2		64.2	-7	764	No stop
05 20 15	---	17 06 34	48.1	-28.2	6.3		63.7	138	783	05 17 51
05 20 15	P-2-2	17 06 34	48.1	-28.2	6.3		63.8	-7	783	No stop
05 22 40	---	17 09 00	48.0	-28.1	6.3		63.3	138	801	05 20 16
05 22 40	P+0-2	17 09 00	48.0	-28.1	6.3		63.4	-7	801	No stop
05 25 05	---	17 11 25	47.8	-27.9	6.4		62.9	138	820	05 22 41
05 25 05	J1048+7143	17 11 25	47.8	-27.9	6.4		63.0	-7	820	No stop
05 27 30	=1044+719	17 13 51	47.7	-27.8	6.4		62.5	138	839	05 25 06
05 27 30	P+2-2	17 13 51	47.6	-27.8	6.4		62.4	-8	839	No stop
05 29 55	---	17 16 16	47.5	-27.7	6.4		61.9	137	857	05 27 31

Schedule for TORUN (Code Tr)

Page 5

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon 28 Feb 2022	Day	59	---						
05 29 55	P+4-2	17 16 16	47.4	-27.6	6.4		61.8	-7	857	No stop
05 32 20	---	17 18 41	47.3	-27.5	6.5		61.3	138	876	05 29 56
05 32 20	P+6-2	17 18 41	47.2	-27.5	6.5		61.2	-7	876	No stop
05 34 45	---	17 21 07	47.1	-27.3	6.5		60.8	138	895	05 32 21
05 34 45	P+8-2	17 21 07	47.0	-27.3	6.5		60.7	-7	895	No stop
05 37 10	---	17 23 32	46.9	-27.2	6.6		60.2	138	913	05 34 46
05 37 10	J1048+7143	17 23 32	47.0	-27.2	6.6		60.6	-9	913	No stop
05 39 35	=1044+719	17 25 58	46.8	-27.1	6.6		60.1	136	932	05 37 11
05 39 35	P-8+0	17 25 58	46.7	-27.0	6.6		59.8	-9	932	No stop
05 42 00	---	17 28 23	46.5	-26.9	6.7		59.3	136	951	05 39 36
05 42 00	P-6+0	17 28 23	46.6	-26.9	6.7		59.4	-7	951	No stop
05 44 25	---	17 30 48	46.4	-26.7	6.7		58.9	138	969	05 42 01
05 44 25	P-4+0	17 30 48	46.4	-26.8	6.7		59.0	-7	969	No stop
05 46 50	---	17 33 14	46.3	-26.6	6.7		58.5	138	988	05 44 26
05 46 50	P-2+0	17 33 14	46.3	-26.6	6.7		58.6	-7	988	No stop
05 49 15	---	17 35 39	46.1	-26.5	6.8		58.1	138	1007	05 46 51
05 49 15	J1048+7143	17 35 39	46.2	-26.5	6.8		58.2	-7	1007	No stop
05 51 40	=1044+719	17 38 05	46.0	-26.4	6.8		57.7	138	1025	05 49 16
05 51 40	P+0+0	17 38 05	46.0	-26.4	6.8		57.7	-5	1025	No stop
05 54 05	---	17 40 30	45.8	-26.2	6.8		57.3	140	1044	05 51 41
05 54 05	P+2+0	17 40 30	45.8	-26.2	6.8		57.2	-7	1044	No stop
05 56 30	---	17 42 55	45.7	-26.1	6.9		56.7	138	1063	05 54 06
05 56 30	P+4+0	17 42 55	45.6	-26.0	6.9		56.6	-7	1063	No stop
05 58 55	---	17 45 21	45.5	-25.9	6.9		56.2	138	1081	05 56 31
05 58 55	P+6+0	17 45 21	45.4	-25.9	6.9		56.1	-7	1081	No stop
06 01 20	---	17 47 46	45.3	-25.7	7.0		55.6	138	1100	05 58 56
06 01 20	J1048+7143	17 47 46	45.4	-25.8	7.0		55.9	-8	1100	No stop
06 03 45	=1044+719	17 50 12	45.2	-25.6	7.0		55.4	137	1119	06 01 21
06 03 45	P+8+0	17 50 12	45.1	-25.5	7.0		55.1	-9	1119	No stop
06 06 10	---	17 52 37	44.9	-25.4	7.1		54.6	136	1137	06 03 46

Schedule for TORUN (Code Tr)

Page 6

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon 28 Feb 2022	Day	59	---						
06 06 10	P-8+2	17 52 37	45.0	-25.3	7.1		54.6	-7	1137	No stop
06 08 35	---	17 55 02	44.8	-25.2	7.1		54.2	138	1156	06 06 11
06 08 35	P-6+2	17 55 02	44.8	-25.2	7.1		54.3	-7	1156	No stop
06 11 00	---	17 57 28	44.7	-25.0	7.1		53.8	138	1175	06 08 36
06 11 00	P-4+2	17 57 28	44.7	-25.1	7.1		53.9	-7	1175	No stop
06 13 25	---	17 59 53	44.6	-24.9	7.2		53.4	138	1194	06 11 01
06 13 25	J1048+7143	17 59 53	44.6	-25.0	7.2		53.6	-8	1194	No stop
06 15 50	=1044+719	18 02 19	44.4	-24.8	7.2		53.1	137	1212	06 13 26
06 15 50	P-2+2	18 02 19	44.4	-24.8	7.2		53.0	-7	1212	No stop
06 18 15	---	18 04 44	44.3	-24.6	7.3		52.6	138	1231	06 15 51
06 18 15	P+0+2	18 04 44	44.3	-24.6	7.2		52.7	-7	1231	No stop
06 20 40	---	18 07 09	44.2	-24.5	7.3		52.2	138	1250	06 18 16
06 20 40	P+2+2	18 07 09	44.1	-24.5	7.3		52.1	-7	1250	No stop
06 23 05	---	18 09 35	44.0	-24.3	7.3		51.7	138	1268	06 20 41
06 23 05	P+4+2	18 09 35	43.9	-24.3	7.3		51.6	-7	1268	No stop
06 25 30	---	18 12 00	43.8	-24.1	7.4		51.1	138	1287	06 23 06
06 25 30	J1048+7143	18 12 00	43.8	-24.2	7.4		51.2	-8	1287	No stop
06 27 55	=1044+719	18 14 26	43.7	-24.0	7.4		50.8	137	1306	06 25 31
06 27 55	P+6+2	18 14 26	43.6	-23.9	7.4		50.6	-8	1306	No stop
06 30 20	---	18 16 51	43.5	-23.7	7.5		50.1	137	1324	06 27 56
06 30 20	P+8+2	18 16 51	43.5	-23.7	7.5		50.0	-7	1324	No stop
06 32 45	---	18 19 16	43.3	-23.5	7.5		49.6	138	1343	06 30 21
06 32 45	P-8+4	18 19 16	43.3	-23.5	7.5		49.6	-7	1343	No stop
06 35 10	---	18 21 42	43.2	-23.3	7.6		49.1	138	1362	06 32 46
06 35 10	P-6+4	18 21 42	43.2	-23.4	7.5		49.2	-7	1362	No stop
06 37 35	---	18 24 07	43.1	-23.2	7.6		48.8	138	1380	06 35 11
06 37 35	J1048+7143	18 24 07	43.1	-23.3	7.6		49.0	-9	1380	No stop
06 40 00	=1044+719	18 26 33	43.0	-23.2	7.6		48.5	136	1399	06 37 36
06 40 00	P-4+4	18 26 33	42.9	-23.0	7.6		48.4	-8	1399	No stop
06 42 25	---	18 28 58	42.8	-22.9	7.7		47.9	137	1418	06 40 01

Schedule for TORUN (Code Tr)

Page 7

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Mon 28 Feb 2022 Day 59 ---										
06 42 25	P-2+4	18 28 58	42.8	-22.9	7.7		48.0	-7	1418	No stop
06 44 50	---	18 31 23	42.7	-22.7	7.7		47.5	138	1436	06 42 26
06 44 50	P+0+4	18 31 23	42.7	-22.8	7.7		47.6	-7	1436	No stop
06 47 15	---	18 33 49	42.6	-22.6	7.7		47.2	138	1455	06 44 51
06 47 15	P+2+4	18 33 49	42.6	-22.5	7.7		47.1	-7	1455	No stop
06 49 40	---	18 36 14	42.4	-22.4	7.8		46.6	138	1474	06 47 16
06 49 40	J1048+7143	18 36 14	42.4	-22.5	7.8		46.7	-8	1474	No stop
06 52 05	=1044+719	18 38 39	42.3	-22.3	7.8		46.2	137	1492	06 49 41
06 52 05	P+4+4	18 38 39	42.3	-22.2	7.8		46.1	-8	1492	No stop
06 54 30	---	18 41 05	42.1	-22.0	7.9		45.6	137	1511	06 52 06
06 54 30	P+6+4	18 41 05	42.1	-22.0	7.9		45.6	-7	1511	No stop
06 56 55	---	18 43 30	42.0	-21.8	7.9		45.1	138	1530	06 54 31
06 56 55	P+8+4	18 43 30	41.9	-21.7	7.9		45.0	-7	1530	No stop
06 59 20	---	18 45 56	41.8	-21.6	8.0		44.6	138	1548	06 56 56
06 59 20	P-8+6	18 45 56	41.8	-21.5	8.0		44.6	-7	1548	No stop
07 01 45	---	18 48 21	41.7	-21.3	8.0		44.1	138	1567	06 59 21
07 01 45	J1048+7143	18 48 21	41.7	-21.6	8.0		44.4	-9	1567	No stop
07 04 10	=1044+719	18 50 46	41.6	-21.4	8.0		43.9	136	1586	07 01 46
07 04 10	P-6+6	18 50 46	41.6	-21.2	8.0		43.8	-9	1586	No stop
07 06 35	---	18 53 12	41.4	-21.0	8.1		43.3	136	1604	07 04 11
07 06 35	P-4+6	18 53 12	41.5	-21.0	8.1		43.4	-7	1604	No stop
07 09 00	---	18 55 37	41.3	-20.9	8.1		42.9	138	1623	07 06 36
07 09 00	P-2+6	18 55 37	41.4	-20.9	8.1		43.0	-7	1623	No stop
07 11 25	---	18 58 03	41.2	-20.7	8.1		42.6	138	1642	07 09 01
07 11 25	P+0+6	18 58 03	41.3	-20.7	8.1		42.7	-7	1642	No stop
07 13 50	---	19 00 28	41.1	-20.6	8.2		42.2	138	1660	07 11 26
07 13 50	J1048+7143	19 00 28	41.1	-20.6	8.2		42.1	-8	1660	No stop
07 16 15	=1044+719	19 02 53	40.9	-20.5	8.2		41.7	137	1679	07 13 51
07 16 15	P+2+6	19 02 53	41.0	-20.3	8.2		41.7	-8	1679	No stop
07 18 40	---	19 05 19	40.9	-20.1	8.3		41.2	137	1698	07 16 16

Schedule for TORUN (Code Tr)

Page 8

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Mon 28 Feb 2022 Day 59 ---										
07 18 40	P+4+6	19 05 19	40.8	-20.1	8.3		41.1	-7	1698	No stop
07 21 05	---	19 07 44	40.7	-19.9	8.3		40.7	138	1717	07 18 41
07 21 05	P+6+6	19 07 44	40.7	-19.9	8.3		40.6	-7	1717	No stop
07 23 30	---	19 10 10	40.6	-19.7	8.4		40.2	138	1735	07 21 06
07 23 30	P+8+6	19 10 10	40.5	-19.7	8.4		40.1	-7	1735	No stop
07 25 55	---	19 12 35	40.4	-19.5	8.4		39.6	138	1754	07 23 31
07 25 55	J1048+7143	19 12 35	40.4	-19.7	8.4		39.9	-9	1754	No stop
07 28 20	=1044+719	19 15 00	40.3	-19.5	8.4		39.4	136	1773	07 25 56
07 28 20	P-8+8	19 15 00	40.3	-19.2	8.4		39.2	-9	1773	No stop
07 30 45	---	19 17 26	40.2	-19.1	8.5		38.7	136	1791	07 28 21
07 30 45	P-6+8	19 17 26	40.2	-19.1	8.5		38.8	-7	1791	No stop
07 33 10	---	19 19 51	40.1	-18.9	8.5		38.4	138	1810	07 30 46
07 33 10	P-4+8	19 19 51	40.1	-18.9	8.5		38.4	-7	1810	No stop
07 35 35	---	19 22 17	40.0	-18.7	8.6		38.0	138	1829	07 33 11
07 35 35	P-2+8	19 22 17	40.0	-18.8	8.5		38.1	-7	1829	No stop
07 38 00	---	19 24 42	39.9	-18.6	8.6		37.6	138	1847	07 35 36
07 38 00	J1048+7143	19 24 42	39.8	-18.7	8.6		37.6	-8	1847	No stop
07 40 25	=1044+719	19 27 07	39.7	-18.5	8.6		37.2	137	1866	07 38 01
07 40 25	P+0+8	19 27 07	39.8	-18.4	8.6		37.3	-9	1866	No stop
07 42 50	---	19 29 33	39.7	-18.2	8.7		36.8	136	1885	07 40 26
07 42 50	P+2+8	19 29 33	39.7	-18.2	8.7		36.7	-7	1885	No stop
07 45 15	---	19 31 58	39.6	-18.0	8.7		36.3	138	1903	07 42 51
07 45 15	P+4+8	19 31 58	39.6	-17.9	8.7		36.2	-7	1903	No stop
07 47 40	---	19 34 24	39.4	-17.7	8.8		35.8	138	1922	07 45 16
07 47 40	P+6+8	19 34 24	39.4	-17.7	8.8		35.7	-7	1922	No stop
07 50 05	---	19 36 49	39.3	-17.5	8.8		35.2	138	1941	07 47 41
07 50 05	J1048+7143	19 36 49	39.3	-17.7	8.8		35.4	-9	1941	No stop
07 52 30	=1044+719	19 39 14	39.1	-17.5	8.8		35.0	136	1959	07 50 06
07 52 30	P+8+8	19 39 14	39.2	-17.3	8.8		34.7	-9	1959	No stop
07 54 55	---	19 41 40	39.1	-17.1	8.9		34.3	136	1978	07 52 31

Schedule for TORUN (Code Tr)

Page 9

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

```
-----
Start UT  Source          Start / Stop      Early   Disk   TPStart
Stop UT          LST      EL   AZ   HA  UP   ParA  Dwell  GBytes  SYNC
-----
```

--- Mon 28 Feb 2022 Day 59 ---

```
07 54 55  J1048+7143  19 41 40  39.0 -17.3  8.9      34.5   -9   1978  No stop
08 00 00  =1044+719      19 46 46  38.8 -16.9  8.9      33.6  296   2017  07 54 56
```

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024_16

```
Setup group:   11          Station: TORUN          Total bit rate: 1024
Format: VDIF          Bits per sample: 2      Sample rate: 32.000
Number of channels: 16  DBE type: DBBC_DDC  Speedup factor: 1.00
```

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF SB =	L	L	L	L	L	L	L	L	L
	L	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
BBC =	1	9	1	9	2	10	2	10	10
	3	11	3	11	4	12	4	12	12
BBC SB=	U	U	L	L	U	U	L	L	L
	U	U	L	L	U	U	L	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1	B1
	A1	B1	A1	B1	A1	B1	A1	B1	B1

The following frequency sets based on these setups were used.

Frequency Set: 9 Setup file default. Used with PCAL = off

LO sum=	1610.49	1610.49	1610.49	1610.49	1642.49	1642.49	1642.49	1642.49
	1674.49	1674.49	1674.49	1674.49	1706.49	1706.49	1706.49	1706.49
BBC fr=	689.51	689.51	689.51	689.51	657.51	657.51	657.51	657.51
	625.51	625.51	625.51	625.51	593.51	593.51	593.51	593.51
Bandwd=	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

Matching frequency sets: 9

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(Date)	Error (mas)	
* P-8-8	10 43 07.478240	* 10 46 46.278699	10 48 25.929838	0.00
	71 51 22.84828	* 71 35 34.26016	71 28 34.68567	0.00
* P-6-8	10 43 33.167296	* 10 47 11.613464	10 48 51.111809	0.00
	71 51 24.17858	* 71 35 34.99439	71 28 35.12715	0.00
* P-4-8	10 43 58.857282	* 10 47 36.948694	10 49 16.294024	0.00
	71 51 25.29585	* 71 35 35.51885	71 28 35.36025	0.00
* P-2-8	10 44 24.548037	* 10 48 02.284234	10 49 41.476332	0.00
	71 51 26.20009	* 71 35 35.83352	71 28 35.38496	0.00
* P+0-8	10 44 50.239398	* 10 48 27.619928	10 50 06.658581	0.00
	71 51 26.89127	* 71 35 35.93841	71 28 35.20130	0.00
* P+2-8	10 44 24.548037	* 10 48 02.284234	10 49 41.476332	0.00
	71 51 26.20009	* 71 35 35.83352	71 28 35.38496	0.00
* P+4-8	10 43 58.857282	* 10 47 36.948694	10 49 16.294024	0.00
	71 51 25.29585	* 71 35 35.51885	71 28 35.36025	0.00
* P+6-8	10 43 33.167296	* 10 47 11.613464	10 48 51.111809	0.00
	71 51 24.17858	* 71 35 34.99439	71 28 35.12715	0.00

* P+8-8	10 43 07.478240 71 51 22.84828	* 10 46 46.278699 * 71 35 34.26016	10 48 25.929838 71 28 34.68567	0.00 0.00
* P-8-6	10 43 07.170075 71 53 22.83930	* 10 46 46.101213 * 71 37 34.25690	10 48 25.815119 71 30 34.68802	0.00 0.00
* P-6-6	10 43 32.904816 71 53 24.17211	* 10 47 11.480347 * 71 37 34.99255	10 48 51.040896 71 30 35.13040	0.00 0.00
* P-4-6	10 43 58.640492 71 53 25.29147	* 10 47 36.859948 * 71 37 35.51803	10 49 16.266919 71 30 35.36400	0.00 0.00
* P-2-6	10 44 24.376941 71 53 26.19737	* 10 48 02.239860 * 71 37 35.83332	10 49 41.493035 71 30 35.38882	0.00 0.00
* P+0-6	10 44 50.113999 71 53 26.88981	* 10 48 27.619928 * 71 37 35.93841	10 50 06.719091 71 30 35.20485	0.00 0.00
* P+2-6	10 44 24.376941 71 53 26.19737	* 10 48 02.239860 * 71 37 35.83332	10 49 41.493035 71 30 35.38882	0.00 0.00
* P+4-6	10 43 58.640492 71 53 25.29147	* 10 47 36.859948 * 71 37 35.51803	10 49 16.266919 71 30 35.36400	0.00 0.00
* P+6-6	10 43 32.904816 71 53 24.17211	* 10 47 11.480347 * 71 37 34.99255	10 48 51.040896 71 30 35.13040	0.00 0.00
* P+8-6	10 43 07.170075 71 53 22.83930	* 10 46 46.101213 * 71 37 34.25690	10 48 25.815119 71 30 34.68802	0.00 0.00
* P-8-4	10 43 06.860778 71 55 22.83029	* 10 46 45.923070 * 71 39 34.25362	10 48 25.699967 71 32 34.69037	0.00 0.00
* P-6-4	10 43 32.641374 71 55 24.16561	* 10 47 11.346736 * 71 39 34.99071	10 48 50.969711 71 32 35.13365	0.00 0.00
* P-4-4	10 43 58.422912 71 55 25.28707	* 10 47 36.770872 * 71 39 35.51721	10 49 16.239703 71 32 35.36775	0.00 0.00
* P-2-4	10 44 24.205226 71 55 26.19465	* 10 48 02.195322 * 71 39 35.83311	10 49 41.509788 71 32 35.39267	0.00 0.00
* P+0-4	10 44 49.988154 71 55 26.88834	* 10 48 27.619928 * 71 39 35.93841	10 50 06.779813 71 32 35.20839	0.00 0.00
* P+2-4	10 44 24.205226 71 55 26.19465	* 10 48 02.195322 * 71 39 35.83311	10 49 41.509788 71 32 35.39267	0.00 0.00
* P+4-4	10 43 58.422912 71 55 25.28707	* 10 47 36.770872 * 71 39 35.51721	10 49 16.239703 71 32 35.36775	0.00 0.00
* P+6-4	10 43 32.641374 71 55 24.16561	* 10 47 11.346736 * 71 39 34.99071	10 48 50.969711 71 32 35.13365	0.00 0.00
* P+8-4	10 43 06.860778 71 55 22.83029	* 10 46 45.923070 * 71 39 34.25362	10 48 25.699967 71 32 34.69037	0.00 0.00
* P-8-2	10 43 06.550341 71 57 22.82124	* 10 46 45.744266 * 71 41 34.25033	10 48 25.584380 71 34 34.69271	0.00 0.00
* P-6-2	10 43 32.376966 71 57 24.15909	* 10 47 11.212630 * 71 41 34.98886	10 48 50.898253 71 34 35.13690	0.00 0.00
* P-4-2	10 43 58.204537	* 10 47 36.681467	10 49 16.212376	0.00

	71 57 25.28265	* 71 41 35.51639	71 34 35.37151	0.00
* P-2-2	10 44 24.032890	* 10 48 02.150618	10 49 41.526593	0.00
	71 57 26.19191	* 71 41 35.83291	71 34 35.39652	0.00
* P+0-2	10 44 49.861859	* 10 48 27.619928	10 50 06.840749	0.00
	71 57 26.88687	* 71 41 35.93841	71 34 35.21194	0.00
* P+2-2	10 44 24.032890	* 10 48 02.150618	10 49 41.526593	0.00
	71 57 26.19191	* 71 41 35.83291	71 34 35.39652	0.00
* P+4-2	10 43 58.204537	* 10 47 36.681467	10 49 16.212376	0.00
	71 57 25.28265	* 71 41 35.51639	71 34 35.37151	0.00
* P+6-2	10 43 32.376966	* 10 47 11.212630	10 48 50.898253	0.00
	71 57 24.15909	* 71 41 34.98886	71 34 35.13690	0.00
* P+8-2	10 43 06.550341	* 10 46 45.744266	10 48 25.584380	0.00
	71 57 22.82124	* 71 41 34.25033	71 34 34.69271	0.00
* P-8+0	10 43 06.238758	* 10 46 45.564797	10 48 25.468355	0.00
	71 59 22.81217	* 71 43 34.24703	71 36 34.69505	0.00
* P-6+0	10 43 32.111585	* 10 47 11.078025	10 48 50.826521	0.00
	71 59 24.15255	* 71 43 34.98701	71 36 35.14016	0.00
* P-4+0	10 43 57.985363	* 10 47 36.591729	10 49 16.184938	0.00
	71 59 25.27822	* 71 43 35.51556	71 36 35.37527	0.00
* P-2+0	10 44 23.859928	* 10 48 02.105749	10 49 41.543449	0.00
	71 59 26.18917	* 71 43 35.83270	71 36 35.40038	0.00
* P+0+0	10 44 49.735112	* 10 48 27.619928	10 50 06.901899	0.00
	71 59 26.88539	* 71 43 35.93841	71 36 35.21548	0.00
* P+2+0	10 44 23.859928	* 10 48 02.105749	10 49 41.543449	0.00
	71 59 26.18917	* 71 43 35.83270	71 36 35.40038	0.00
* P+4+0	10 43 57.985363	* 10 47 36.591729	10 49 16.184938	0.00
	71 59 25.27822	* 71 43 35.51556	71 36 35.37527	0.00
* P+6+0	10 43 32.111585	* 10 47 11.078025	10 48 50.826521	0.00
	71 59 24.15255	* 71 43 34.98701	71 36 35.14016	0.00
* P+8+0	10 43 06.238758	* 10 46 45.564797	10 48 25.468355	0.00
	71 59 22.81217	* 71 43 34.24703	71 36 34.69505	0.00
* P-8+2	10 43 05.926023	* 10 46 45.384660	10 48 25.351891	0.00
	72 01 22.80305	* 71 45 34.24372	71 38 34.69738	0.00
* P-6+2	10 43 31.845226	* 10 47 10.942920	10 48 50.754513	0.00
	72 01 24.14598	* 71 45 34.98514	71 38 35.14341	0.00
* P-4+2	10 43 57.765386	* 10 47 36.501657	10 49 16.157387	0.00
	72 01 25.27378	* 71 45 35.51474	71 38 35.37902	0.00
* P-2+2	10 44 23.686337	* 10 48 02.060713	10 49 41.560357	0.00
	72 01 26.18642	* 71 45 35.83249	71 38 35.40423	0.00
* P+0+2	10 44 49.607911	* 10 48 27.619928	10 50 06.963265	0.00
	72 01 26.88390	* 71 45 35.93841	71 38 35.21903	0.00
* P+2+2	10 44 23.686337	* 10 48 02.060713	10 49 41.560357	0.00
	72 01 26.18642	* 71 45 35.83249	71 38 35.40423	0.00

* P+4+2	10 43 57.765386 72 01 25.27378	* 10 47 36.501657 * 71 45 35.51474	10 49 16.157387 71 38 35.37902	0.00 0.00
* P+6+2	10 43 31.845226 72 01 24.14598	* 10 47 10.942920 * 71 45 34.98514	10 48 50.754513 71 38 35.14341	0.00 0.00
* P+8+2	10 43 05.926023 72 01 22.80305	* 10 46 45.384660 * 71 45 34.24372	10 48 25.351891 71 38 34.69738	0.00 0.00
* P-8+4	10 43 05.612130 72 03 22.79391	* 10 46 45.203852 * 71 47 34.24040	10 48 25.234984 71 40 34.69971	0.00 0.00
* P-6+4	10 43 31.577885 72 03 24.13939	* 10 47 10.807310 * 71 47 34.98328	10 48 50.682228 71 40 35.14666	0.00 0.00
* P-4+4	10 43 57.544602 72 03 25.26931	* 10 47 36.411249 * 71 47 35.51391	10 49 16.129724 71 40 35.38278	0.00 0.00
* P-2+4	10 44 23.512114 72 03 26.18365	* 10 48 02.015508 * 71 47 35.83229	10 49 41.577317 71 40 35.40809	0.00 0.00
* P+0+4	10 44 49.480253 72 03 26.88241	* 10 48 27.619928 * 71 47 35.93841	10 50 07.024848 71 40 35.22258	0.00 0.00
* P+2+4	10 44 23.512114 72 03 26.18365	* 10 48 02.015508 * 71 47 35.83229	10 49 41.577317 71 40 35.40809	0.00 0.00
* P+4+4	10 43 57.544602 72 03 25.26931	* 10 47 36.411249 * 71 47 35.51391	10 49 16.129724 71 40 35.38278	0.00 0.00
* P+6+4	10 43 31.577885 72 03 24.13939	* 10 47 10.807310 * 71 47 34.98328	10 48 50.682228 71 40 35.14666	0.00 0.00
* P+8+4	10 43 05.612130 72 03 22.79391	* 10 46 45.203852 * 71 47 34.24040	10 48 25.234984 71 40 34.69971	0.00 0.00
* P-8+6	10 43 05.297071 72 05 22.78473	* 10 46 45.022368 * 71 49 34.23707	10 48 25.117633 71 42 34.70204	0.00 0.00
* P-6+6	10 43 31.309554 72 05 24.13278	* 10 47 10.671194 * 71 49 34.98140	10 48 50.609663 71 42 35.14990	0.00 0.00
* P-4+6	10 43 57.323005 72 05 25.26483	* 10 47 36.320503 * 71 49 35.51307	10 49 16.101948 71 42 35.38654	0.00 0.00
* P-2+6	10 44 23.337254 72 05 26.18088	* 10 48 01.970135 * 71 49 35.83208	10 49 41.594330 71 42 35.41195	0.00 0.00
* P+0+6	10 44 49.352135 72 05 26.88092	* 10 48 27.619928 * 71 49 35.93841	10 50 07.086650 71 42 35.22612	0.00 0.00
* P+2+6	10 44 23.337254 72 05 26.18088	* 10 48 01.970135 * 71 49 35.83208	10 49 41.594330 71 42 35.41195	0.00 0.00
* P+4+6	10 43 57.323005 72 05 25.26483	* 10 47 36.320503 * 71 49 35.51307	10 49 16.101948 71 42 35.38654	0.00 0.00
* P+6+6	10 43 31.309554 72 05 24.13278	* 10 47 10.671194 * 71 49 34.98140	10 48 50.609663 71 42 35.14990	0.00 0.00
* P+8+6	10 43 05.297071 72 05 22.78473	* 10 46 45.022368 * 71 49 34.23707	10 48 25.117633 71 42 34.70204	0.00 0.00

* P-8+8	10 43 04.980841	* 10 46 44.840205	10 48 24.999835	0.00
	72 07 22.77552	* 71 51 34.23372	71 44 34.70436	0.00
* P-6+8	10 43 31.040229	* 10 47 10.534568	10 48 50.536819	0.00
	72 07 24.12614	* 71 51 34.97952	71 44 35.15315	0.00
* P-4+8	10 43 57.100591	* 10 47 36.229418	10 49 16.074058	0.00
	72 07 25.26034	* 71 51 35.51224	71 44 35.39030	0.00
* P-2+8	10 44 23.161756	* 10 48 01.924592	10 49 41.611395	0.00
	72 07 26.17810	* 71 51 35.83187	71 44 35.41581	0.00
* P+0+8	10 44 49.223555	* 10 48 27.619928	10 50 07.148670	0.00
	72 07 26.87942	* 71 51 35.93841	71 44 35.22967	0.00
* P+2+8	10 44 23.161756	* 10 48 01.924592	10 49 41.611395	0.00
	72 07 26.17810	* 71 51 35.83187	71 44 35.41581	0.00
* P+4+8	10 43 57.100591	* 10 47 36.229418	10 49 16.074058	0.00
	72 07 25.26034	* 71 51 35.51224	71 44 35.39030	0.00
* P+6+8	10 43 31.040229	* 10 47 10.534568	10 48 50.536819	0.00
	72 07 24.12614	* 71 51 34.97952	71 44 35.15315	0.00
* P+8+8	10 43 04.980841	* 10 46 44.840205	10 48 24.999835	0.00
	72 07 22.77552	* 71 51 34.23372	71 44 34.70436	0.00
* J1048+7143	10 44 49.735110	* 10 48 27.619926	10 50 06.901898	0.32
1044+719	71 59 26.88535	* 71 43 35.93838	71 36 35.21545	0.10
J1048+71	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.vlba.2012jul rfc_2012b Petrov, 2012, unpublished 138156 observations			
J1642+3948	16 41 17.606228	* 16 42 58.809965	16 43 43.121284	0.77
* 3C345	39 54 10.81496	* 39 48 36.99402	39 45 49.53804	0.52
1641+399	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.vlba.2012jul			
J1642+39	GSFC 2011B astro solution 52621 Observations			

MAPPING EVN PRIMARY BEAMS
 PI: Jack Radcliffe

Schedule for TORUN (Code Tr)

Page 2

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are LO sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Tue 1 Mar 2022 Day 60 ---										
Next scan frequencies:		1610.49	1610.49	1610.49	1610.49	1610.49	1642.49	1642.49	1642.49	1642.49
		1674.49	1674.49	1674.49	1674.49	1674.49	1706.49	1706.49	1706.49	1706.49
Next BBC frequencies:		689.51	689.51	689.51	689.51	689.51	657.51	657.51	657.51	657.51
		625.51	625.51	625.51	625.51	625.51	593.51	593.51	593.51	593.51
Next scan bandwidths:		16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
		16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

03 30 00	3C345	15 19 58	70.5	124.7	-1.4		-40.0	0	0	03 30 00
03 36 30	---	15 26 29	71.3	127.6	-1.3		-38.2	390	50	03 30 01
03 45 30	J1048+7143	15 35 30	55.0	-31.4	4.8		83.0	207	50	03 45 30
03 50 50	=1044+719	15 40 51	54.6	-31.3	4.8		81.8	320	91	03 45 31
03 50 50	P-8-8	15 40 51	54.5	-31.5	4.9		81.2	-10	91	No stop
03 53 15	---	15 43 17	54.3	-31.5	4.9		80.7	135	110	03 50 51
03 53 15	P-6-8	15 43 17	54.3	-31.5	4.9		80.8	-7	110	No stop
03 55 40	---	15 45 42	54.1	-31.4	4.9		80.3	138	129	03 53 16
03 55 40	P-4-8	15 45 42	54.1	-31.4	4.9		80.4	-7	129	No stop
03 58 05	---	15 48 07	54.0	-31.4	5.0		79.8	138	147	03 55 41
03 58 05	P-2-8	15 48 07	54.0	-31.4	5.0		79.9	-7	147	No stop
04 00 30	---	15 50 33	53.8	-31.3	5.0		79.4	138	166	03 58 06
04 00 30	J1048+7143	15 50 33	53.9	-31.1	5.0		79.7	-9	166	No stop
04 02 55	=1044+719	15 52 58	53.7	-31.1	5.0		79.1	136	185	04 00 31
04 02 55	P+0-8	15 52 58	53.6	-31.3	5.0		79.0	-9	185	No stop
04 05 20	---	15 55 24	53.4	-31.2	5.1		78.4	136	204	04 02 56
04 05 20	P+2-8	15 55 24	53.4	-31.2	5.1		78.3	-7	204	No stop
04 07 45	---	15 57 49	53.2	-31.1	5.1		77.8	138	222	04 05 21
04 07 45	P+4-8	15 57 49	53.2	-31.1	5.1		77.7	-7	222	No stop
04 10 10	---	16 00 14	53.0	-31.1	5.2		77.2	138	241	04 07 46
04 10 10	P+6-8	16 00 14	53.0	-31.0	5.2		77.1	-7	241	No stop
04 12 35	---	16 02 40	52.8	-31.0	5.2		76.6	138	260	04 10 11
04 12 35	J1048+7143	16 02 40	52.9	-30.8	5.2		77.0	-9	260	No stop
04 15 00	=1044+719	16 05 05	52.7	-30.7	5.2		76.5	136	278	04 12 36

Schedule for TORUN (Code Tr)

Page 3

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Tue 1 Mar 2022	Day 60	---							
04 15 00	P+8-8	16 05 05	52.6	-30.9	5.3		76.0	-10	278	No stop
04 17 25	---	16 07 31	52.4	-30.8	5.3		75.5	135	297	04 15 01
04 17 25	P-8-6	16 07 31	52.4	-30.8	5.3		75.5	-7	297	No stop
04 19 50	---	16 09 56	52.2	-30.7	5.4		75.0	138	316	04 17 26
04 19 50	P-6-6	16 09 56	52.2	-30.7	5.4		75.1	-7	316	No stop
04 22 15	---	16 12 21	52.1	-30.6	5.4		74.6	138	334	04 19 51
04 22 15	P-4-6	16 12 21	52.1	-30.6	5.4		74.7	-7	334	No stop
04 24 40	---	16 14 47	51.9	-30.5	5.4		74.2	138	353	04 22 16
04 24 40	J1048+7143	16 14 47	52.0	-30.4	5.4		74.5	-8	353	No stop
04 27 05	=1044+719	16 17 12	51.8	-30.3	5.5		74.0	137	372	04 24 41
04 27 05	P-2-6	16 17 12	51.7	-30.5	5.5		73.8	-8	372	No stop
04 29 30	---	16 19 38	51.6	-30.4	5.5		73.3	137	390	04 27 06
04 29 30	P+0-6	16 19 38	51.6	-30.4	5.5		73.3	-7	390	No stop
04 31 55	---	16 22 03	51.4	-30.3	5.5		72.8	138	409	04 29 31
04 31 55	P+2-6	16 22 03	51.4	-30.3	5.5		72.8	-7	409	No stop
04 34 20	---	16 24 28	51.2	-30.2	5.6		72.2	138	428	04 31 56
04 34 20	P+4-6	16 24 28	51.2	-30.2	5.6		72.2	-7	428	No stop
04 36 45	---	16 26 54	51.0	-30.1	5.6		71.7	138	446	04 34 21
04 36 45	J1048+7143	16 26 54	51.1	-30.0	5.6		72.0	-8	446	No stop
04 39 10	=1044+719	16 29 19	50.9	-29.9	5.7		71.5	137	465	04 36 46
04 39 10	P+6-6	16 29 19	50.8	-30.0	5.7		71.1	-9	465	No stop
04 41 35	---	16 31 45	50.6	-29.9	5.7		70.6	136	484	04 39 11
04 41 35	P+8-6	16 31 45	50.6	-29.9	5.7		70.5	-7	484	No stop
04 44 00	---	16 34 10	50.4	-29.8	5.8		70.0	138	502	04 41 36
04 44 00	P-8-4	16 34 10	50.4	-29.7	5.8		70.0	-7	502	No stop
04 46 25	---	16 36 35	50.2	-29.6	5.8		69.5	138	521	04 44 01
04 46 25	P-6-4	16 36 35	50.2	-29.6	5.8		69.6	-7	521	No stop
04 48 50	---	16 39 01	50.1	-29.5	5.8		69.1	138	540	04 46 26
04 48 50	J1048+7143	16 39 01	50.2	-29.5	5.8		69.5	-9	540	No stop
04 51 15	=1044+719	16 41 26	50.0	-29.4	5.9		69.0	136	558	04 48 51
04 51 15	P-4-4	16 41 26	49.9	-29.4	5.9		68.7	-8	558	No stop
04 53 40	---	16 43 52	49.7	-29.3	5.9		68.2	137	577	04 51 16

Schedule for TORUN (Code Tr)

Page 4

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Tue	1 Mar 2022	Day	60	---					
04 53 40	P-2-4	16 43 52	49.8	-29.3	5.9		68.3	-7	577	No stop
04 56 05	---	16 46 17	49.6	-29.2	5.9		67.8	138	596	04 53 41
04 56 05	P+0-4	16 46 17	49.6	-29.2	5.9		67.9	-7	596	No stop
04 58 30	---	16 48 42	49.4	-29.1	6.0		67.4	138	614	04 56 06
04 58 30	P+2-4	16 48 42	49.4	-29.1	6.0		67.3	-7	614	No stop
05 00 55	---	16 51 08	49.2	-29.0	6.0		66.9	138	633	04 58 31
05 00 55	J1048+7143	16 51 08	49.3	-28.9	6.0		67.0	-8	633	No stop
05 03 20	=1044+719	16 53 33	49.1	-28.8	6.1		66.5	137	652	05 00 56
05 03 20	P+4-4	16 53 33	49.0	-28.9	6.1		66.3	-9	652	No stop
05 05 45	---	16 55 59	48.8	-28.7	6.1		65.8	136	671	05 03 21
05 05 45	P+6-4	16 55 59	48.8	-28.7	6.1		65.7	-7	671	No stop
05 08 10	---	16 58 24	48.6	-28.6	6.2		65.2	138	689	05 05 46
05 08 10	P+8-4	16 58 24	48.6	-28.6	6.2		65.1	-7	689	No stop
05 10 35	---	17 00 49	48.4	-28.5	6.2		64.7	138	708	05 08 11
05 10 35	P-8-2	17 00 49	48.5	-28.4	6.2		64.7	-7	708	No stop
05 13 00	---	17 03 15	48.3	-28.3	6.2		64.2	138	727	05 10 36
05 13 00	J1048+7143	17 03 15	48.4	-28.3	6.2		64.6	-9	727	No stop
05 15 25	=1044+719	17 05 40	48.2	-28.2	6.3		64.1	136	745	05 13 01
05 15 25	P-6-2	17 05 40	48.1	-28.2	6.3		63.8	-9	745	No stop
05 17 50	---	17 08 06	48.0	-28.1	6.3		63.3	136	764	05 15 26
05 17 50	P-4-2	17 08 06	48.0	-28.1	6.3		63.4	-7	764	No stop
05 20 15	---	17 10 31	47.8	-27.9	6.4		62.9	138	783	05 17 51
05 20 15	P-2-2	17 10 31	47.9	-28.0	6.3		63.0	-7	783	No stop
05 22 40	---	17 12 56	47.7	-27.8	6.4		62.5	138	801	05 20 16
05 22 40	P+0-2	17 12 56	47.7	-27.9	6.4		62.6	-7	801	No stop
05 25 05	---	17 15 22	47.5	-27.7	6.4		62.1	138	820	05 22 41
05 25 05	J1048+7143	17 15 22	47.6	-27.7	6.4		62.2	-7	820	No stop
05 27 30	=1044+719	17 17 47	47.4	-27.6	6.5		61.7	138	839	05 25 06
05 27 30	P+2-2	17 17 47	47.3	-27.6	6.5		61.6	-8	839	No stop
05 29 55	---	17 20 13	47.2	-27.4	6.5		61.1	137	857	05 27 31

Schedule for TORUN (Code Tr)

Page 5

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Tue	1 Mar 2022	Day	60	---					
05 29 55	P+4-2	17 20 13	47.1	-27.4	6.5		61.0	-7	857	No stop
05 32 20	---	17 22 38	47.0	-27.3	6.6		60.6	138	876	05 29 56
05 32 20	P+6-2	17 22 38	47.0	-27.3	6.6		60.5	-7	876	No stop
05 34 45	---	17 25 03	46.8	-27.1	6.6		60.0	138	895	05 32 21
05 34 45	P+8-2	17 25 03	46.8	-27.1	6.6		59.9	-7	895	No stop
05 37 10	---	17 27 29	46.6	-27.0	6.7		59.4	138	913	05 34 46
05 37 10	J1048+7143	17 27 29	46.7	-27.0	6.6		59.8	-9	913	No stop
05 39 35	=1044+719	17 29 54	46.6	-26.9	6.7		59.3	136	932	05 37 11
05 39 35	P-8+0	17 29 54	46.4	-26.8	6.7		59.0	-9	932	No stop
05 42 00	---	17 32 20	46.3	-26.6	6.7		58.5	136	951	05 39 36
05 42 00	P-6+0	17 32 20	46.3	-26.6	6.7		58.6	-7	951	No stop
05 44 25	---	17 34 45	46.1	-26.5	6.8		58.1	138	969	05 42 01
05 44 25	P-4+0	17 34 45	46.2	-26.5	6.8		58.2	-7	969	No stop
05 46 50	---	17 37 10	46.0	-26.4	6.8		57.8	138	988	05 44 26
05 46 50	P-2+0	17 37 10	46.0	-26.4	6.8		57.8	-7	988	No stop
05 49 15	---	17 39 36	45.9	-26.3	6.8		57.4	138	1007	05 46 51
05 49 15	J1048+7143	17 39 36	45.9	-26.3	6.8		57.5	-7	1007	No stop
05 51 40	=1044+719	17 42 01	45.7	-26.1	6.9		57.0	138	1025	05 49 16
05 51 40	P+0+0	17 42 01	45.7	-26.1	6.9		57.0	-5	1025	No stop
05 54 05	---	17 44 27	45.6	-26.0	6.9		56.5	140	1044	05 51 41
05 54 05	P+2+0	17 44 27	45.6	-26.0	6.9		56.4	-7	1044	No stop
05 56 30	---	17 46 52	45.4	-25.8	7.0		56.0	138	1063	05 54 06
05 56 30	P+4+0	17 46 52	45.4	-25.8	7.0		55.9	-7	1063	No stop
05 58 55	---	17 49 17	45.2	-25.6	7.0		55.4	138	1081	05 56 31
05 58 55	P+6+0	17 49 17	45.2	-25.6	7.0		55.3	-7	1081	No stop
06 01 20	---	17 51 43	45.0	-25.4	7.0		54.9	138	1100	05 58 56
06 01 20	J1048+7143	17 51 43	45.1	-25.5	7.0		55.1	-8	1100	No stop
06 03 45	=1044+719	17 54 08	45.0	-25.4	7.1		54.7	137	1119	06 01 21
06 03 45	P+8+0	17 54 08	44.8	-25.3	7.1		54.3	-9	1119	No stop
06 06 10	---	17 56 34	44.7	-25.1	7.1		53.9	136	1137	06 03 46

Schedule for TORUN (Code Tr)

Page 6

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Tue	1 Mar 2022	Day	60	---					
06 06 10	P-8+2	17 56 34	44.7	-25.1	7.1		53.9	-7	1137	No stop
06 08 35	---	17 58 59	44.6	-24.9	7.2		53.4	138	1156	06 06 11
06 08 35	P-6+2	17 58 59	44.6	-24.9	7.2		53.5	-7	1156	No stop
06 11 00	---	18 01 24	44.4	-24.8	7.2		53.0	138	1175	06 08 36
06 11 00	P-4+2	18 01 24	44.5	-24.8	7.2		53.1	-7	1175	No stop
06 13 25	---	18 03 50	44.3	-24.6	7.2		52.7	138	1194	06 11 01
06 13 25	J1048+7143	18 03 50	44.3	-24.7	7.2		52.8	-8	1194	No stop
06 15 50	=1044+719	18 06 15	44.2	-24.6	7.3		52.3	137	1212	06 13 26
06 15 50	P-2+2	18 06 15	44.2	-24.5	7.3		52.3	-7	1212	No stop
06 18 15	---	18 08 40	44.0	-24.3	7.3		51.8	138	1231	06 15 51
06 18 15	P+0+2	18 08 40	44.1	-24.4	7.3		51.9	-7	1231	No stop
06 20 40	---	18 11 06	43.9	-24.2	7.3		51.4	138	1250	06 18 16
06 20 40	P+2+2	18 11 06	43.9	-24.2	7.4		51.4	-7	1250	No stop
06 23 05	---	18 13 31	43.7	-24.0	7.4		50.9	138	1268	06 20 41
06 23 05	P+4+2	18 13 31	43.7	-24.0	7.4		50.8	-7	1268	No stop
06 25 30	---	18 15 57	43.6	-23.8	7.4		50.4	138	1287	06 23 06
06 25 30	J1048+7143	18 15 57	43.6	-23.9	7.4		50.5	-8	1287	No stop
06 27 55	=1044+719	18 18 22	43.4	-23.7	7.5		50.0	137	1306	06 25 31
06 27 55	P+6+2	18 18 22	43.4	-23.6	7.5		49.8	-8	1306	No stop
06 30 20	---	18 20 47	43.2	-23.5	7.5		49.4	137	1324	06 27 56
06 30 20	P+8+2	18 20 47	43.2	-23.4	7.5		49.3	-7	1324	No stop
06 32 45	---	18 23 13	43.1	-23.3	7.6		48.8	138	1343	06 30 21
06 32 45	P-8+4	18 23 13	43.1	-23.2	7.6		48.9	-7	1343	No stop
06 35 10	---	18 25 38	43.0	-23.0	7.6		48.4	138	1362	06 32 46
06 35 10	P-6+4	18 25 38	43.0	-23.1	7.6		48.5	-7	1362	No stop
06 37 35	---	18 28 04	42.8	-22.9	7.7		48.0	138	1380	06 35 11
06 37 35	J1048+7143	18 28 04	42.9	-23.1	7.6		48.2	-9	1380	No stop
06 40 00	=1044+719	18 30 29	42.7	-22.9	7.7		47.8	136	1399	06 37 36
06 40 00	P-4+4	18 30 29	42.7	-22.8	7.7		47.6	-8	1399	No stop
06 42 25	---	18 32 54	42.6	-22.6	7.7		47.2	137	1418	06 40 01

Schedule for TORUN (Code Tr)

Page 7

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
 Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Tue	1 Mar 2022	Day	60	---					
06 42 25	P-2+4	18 32 54	42.6	-22.6	7.7		47.3	-7	1418	No stop
06 44 50	---	18 35 20	42.5	-22.4	7.8		46.8	138	1436	06 42 26
06 44 50	P+0+4	18 35 20	42.5	-22.5	7.8		46.9	-7	1436	No stop
06 47 15	---	18 37 45	42.3	-22.3	7.8		46.4	138	1455	06 44 51
06 47 15	P+2+4	18 37 45	42.3	-22.3	7.8		46.4	-7	1455	No stop
06 49 40	---	18 40 11	42.2	-22.1	7.8		45.9	138	1474	06 47 16
06 49 40	J1048+7143	18 40 11	42.2	-22.2	7.8		45.9	-8	1474	No stop
06 52 05	=1044+719	18 42 36	42.0	-22.0	7.9		45.5	137	1492	06 49 41
06 52 05	P+4+4	18 42 36	42.0	-21.9	7.9		45.4	-8	1492	No stop
06 54 30	---	18 45 01	41.9	-21.7	7.9		44.9	137	1511	06 52 06
06 54 30	P+6+4	18 45 01	41.9	-21.7	7.9		44.8	-7	1511	No stop
06 56 55	---	18 47 27	41.7	-21.5	8.0		44.4	138	1530	06 54 31
06 56 55	P+8+4	18 47 27	41.7	-21.4	8.0		44.3	-7	1530	No stop
06 59 20	---	18 49 52	41.6	-21.3	8.0		43.8	138	1548	06 56 56
06 59 20	P-8+6	18 49 52	41.6	-21.2	8.0		43.9	-7	1548	No stop
07 01 45	---	18 52 18	41.5	-21.0	8.1		43.4	138	1567	06 59 21
07 01 45	J1048+7143	18 52 18	41.5	-21.3	8.0		43.7	-9	1567	No stop
07 04 10	=1044+719	18 54 43	41.4	-21.1	8.1		43.2	136	1586	07 01 46
07 04 10	P-6+6	18 54 43	41.4	-20.9	8.1		43.0	-9	1586	No stop
07 06 35	---	18 57 08	41.2	-20.7	8.1		42.6	136	1604	07 04 11
07 06 35	P-4+6	18 57 08	41.3	-20.7	8.1		42.7	-7	1604	No stop
07 09 00	---	18 59 34	41.1	-20.6	8.2		42.2	138	1623	07 06 36
07 09 00	P-2+6	18 59 34	41.2	-20.6	8.2		42.3	-7	1623	No stop
07 11 25	---	19 01 59	41.0	-20.4	8.2		41.8	138	1642	07 09 01
07 11 25	P+0+6	19 01 59	41.0	-20.4	8.2		41.9	-7	1642	No stop
07 13 50	---	19 04 25	40.9	-20.2	8.2		41.5	138	1660	07 11 26
07 13 50	J1048+7143	19 04 25	40.8	-20.3	8.2		41.4	-8	1660	No stop
07 16 15	=1044+719	19 06 50	40.7	-20.1	8.3		41.0	137	1679	07 13 51
07 16 15	P+2+6	19 06 50	40.8	-20.0	8.3		40.9	-8	1679	No stop
07 18 40	---	19 09 15	40.7	-19.8	8.3		40.5	137	1698	07 16 16

Schedule for TORUN (Code Tr)

Page 8

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Tue	1 Mar 2022	Day	60	---					
07 18 40	P+4+6	19 09 15	40.6	-19.8	8.3		40.4	-7	1698	No stop
07 21 05	---	19 11 41	40.5	-19.6	8.4		40.0	138	1717	07 18 41
07 21 05	P+6+6	19 11 41	40.5	-19.6	8.4		39.9	-7	1717	No stop
07 23 30	---	19 14 06	40.4	-19.4	8.4		39.4	138	1735	07 21 06
07 23 30	P+8+6	19 14 06	40.3	-19.3	8.4		39.3	-7	1735	No stop
07 25 55	---	19 16 32	40.2	-19.2	8.5		38.9	138	1754	07 23 31
07 25 55	J1048+7143	19 16 32	40.2	-19.4	8.4		39.2	-9	1754	No stop
07 28 20	=1044+719	19 18 57	40.1	-19.2	8.5		38.7	136	1773	07 25 56
07 28 20	P-8+8	19 18 57	40.1	-18.9	8.5		38.5	-9	1773	No stop
07 30 45	---	19 21 22	40.0	-18.7	8.5		38.0	136	1791	07 28 21
07 30 45	P-6+8	19 21 22	40.0	-18.8	8.5		38.1	-7	1791	No stop
07 33 10	---	19 23 48	39.9	-18.6	8.6		37.6	138	1810	07 30 46
07 33 10	P-4+8	19 23 48	39.9	-18.6	8.6		37.7	-7	1810	No stop
07 35 35	---	19 26 13	39.8	-18.4	8.6		37.3	138	1829	07 33 11
07 35 35	P-2+8	19 26 13	39.8	-18.5	8.6		37.3	-7	1829	No stop
07 38 00	---	19 28 39	39.7	-18.3	8.6		36.9	138	1847	07 35 36
07 38 00	J1048+7143	19 28 39	39.6	-18.4	8.6		36.9	-8	1847	No stop
07 40 25	=1044+719	19 31 04	39.5	-18.2	8.7		36.5	137	1866	07 38 01
07 40 25	P+0+8	19 31 04	39.6	-18.1	8.7		36.5	-9	1866	No stop
07 42 50	---	19 33 29	39.5	-17.9	8.7		36.1	136	1885	07 40 26
07 42 50	P+2+8	19 33 29	39.5	-17.9	8.7		36.0	-7	1885	No stop
07 45 15	---	19 35 55	39.4	-17.7	8.8		35.6	138	1903	07 42 51
07 45 15	P+4+8	19 35 55	39.4	-17.6	8.8		35.5	-7	1903	No stop
07 47 40	---	19 38 20	39.3	-17.4	8.8		35.0	138	1922	07 45 16
07 47 40	P+6+8	19 38 20	39.2	-17.4	8.8		34.9	-7	1922	No stop
07 50 05	---	19 40 46	39.1	-17.2	8.9		34.5	138	1941	07 47 41
07 50 05	J1048+7143	19 40 46	39.1	-17.4	8.8		34.7	-9	1941	No stop
07 52 30	=1044+719	19 43 11	39.0	-17.2	8.9		34.2	136	1959	07 50 06
07 52 30	P+8+8	19 43 11	39.0	-16.9	8.9		34.0	-9	1959	No stop
07 54 55	---	19 45 36	38.9	-16.7	9.0		33.5	136	1978	07 52 31

Schedule for TORUN (Code Tr)

Page 9

Mapping EVN primary beams

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

```
-----
Start UT  Source          Start / Stop          Early   Disk   TPStart
Stop UT          LST      EL   AZ   HA  UP   ParA Dwell  GBytes  SYNC
-----
```

--- Tue 1 Mar 2022 Day 60 ---

```
07 54 55 J1048+7143 19 45 36 38.9 -17.0 8.9      33.8   -9   1978  No stop
08 00 00 =1044+719   19 50 42 38.6 -16.6 9.0      32.8  296   2017  07 54 56
```

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024_16

```
Setup group: 11          Station: TORUN          Total bit rate: 1024
Format: VDIF           Bits per sample: 2      Sample rate: 32.000
Number of channels: 16  DBE type: DBBC_DDC      Speedup factor: 1.00
```

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF SB =	L	L	L	L	L	L	L	L	L
	L	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
BBC =	1	9	1	9	2	10	2	10	10
	3	11	3	11	4	12	4	12	12
BBC SB=	U	U	L	L	U	U	L	L	L
	U	U	L	L	U	U	L	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1	B1
	A1	B1	A1	B1	A1	B1	A1	B1	B1

The following frequency sets based on these setups were used.

Frequency Set: 9 Setup file default. Used with PCAL = off

LO sum=	1610.49	1610.49	1610.49	1610.49	1642.49	1642.49	1642.49	1642.49
	1674.49	1674.49	1674.49	1674.49	1706.49	1706.49	1706.49	1706.49
BBC fr=	689.51	689.51	689.51	689.51	657.51	657.51	657.51	657.51
	625.51	625.51	625.51	625.51	593.51	593.51	593.51	593.51
Bandwd=	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

Matching frequency sets: 9

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(Date)	Error (mas)
* P-8-8	10 43 07.478240	10 48 25.958151	0.00
	71 51 22.84828	71 28 34.97503	0.00
* P-6-8	10 43 33.167296	10 48 51.140247	0.00
	71 51 24.17858	71 28 35.41633	0.00
* P-4-8	10 43 58.857282	10 49 16.322587	0.00
	71 51 25.29585	71 28 35.64925	0.00
* P-2-8	10 44 24.548037	10 49 41.505020	0.00
	71 51 26.20009	71 28 35.67380	0.00
* P+0-8	10 44 50.239398	10 50 06.687393	0.00
	71 51 26.89127	71 28 35.48996	0.00
* P+2-8	10 44 24.548037	10 49 41.505020	0.00
	71 51 26.20009	71 28 35.67380	0.00
* P+4-8	10 43 58.857282	10 49 16.322587	0.00
	71 51 25.29585	71 28 35.64925	0.00
* P+6-8	10 43 33.167296	10 48 51.140247	0.00
	71 51 24.17858	71 28 35.41633	0.00

* P+8-8	10 43 07.478240 71 51 22.84828	* 10 46 46.278699 * 71 35 34.26016	10 48 25.958151 71 28 34.97503	0.00 0.00
* P-8-6	10 43 07.170075 71 53 22.83930	* 10 46 46.101213 * 71 37 34.25690	10 48 25.843467 71 30 34.97747	0.00 0.00
* P-6-6	10 43 32.904816 71 53 24.17211	* 10 47 11.480347 * 71 37 34.99255	10 48 51.069370 71 30 35.41968	0.00 0.00
* P-4-6	10 43 58.640492 71 53 25.29147	* 10 47 36.859948 * 71 37 35.51803	10 49 16.295518 71 30 35.65310	0.00 0.00
* P-2-6	10 44 24.376941 71 53 26.19737	* 10 48 02.239860 * 71 37 35.83332	10 49 41.521759 71 30 35.67774	0.00 0.00
* P+0-6	10 44 50.113999 71 53 26.88981	* 10 48 27.619928 * 71 37 35.93841	10 50 06.747941 71 30 35.49359	0.00 0.00
* P+2-6	10 44 24.376941 71 53 26.19737	* 10 48 02.239860 * 71 37 35.83332	10 49 41.521759 71 30 35.67774	0.00 0.00
* P+4-6	10 43 58.640492 71 53 25.29147	* 10 47 36.859948 * 71 37 35.51803	10 49 16.295518 71 30 35.65310	0.00 0.00
* P+6-6	10 43 32.904816 71 53 24.17211	* 10 47 11.480347 * 71 37 34.99255	10 48 51.069370 71 30 35.41968	0.00 0.00
* P+8-6	10 43 07.170075 71 53 22.83930	* 10 46 46.101213 * 71 37 34.25690	10 48 25.843467 71 30 34.97747	0.00 0.00
* P-8-4	10 43 06.860778 71 55 22.83029	* 10 46 45.923070 * 71 39 34.25362	10 48 25.728351 71 32 34.97991	0.00 0.00
* P-6-4	10 43 32.641374 71 55 24.16561	* 10 47 11.346736 * 71 39 34.99071	10 48 50.998222 71 32 35.42302	0.00 0.00
* P-4-4	10 43 58.422912 71 55 25.28707	* 10 47 36.770872 * 71 39 35.51721	10 49 16.268339 71 32 35.65695	0.00 0.00
* P-2-4	10 44 24.205226 71 55 26.19465	* 10 48 02.195322 * 71 39 35.83311	10 49 41.538550 71 32 35.68169	0.00 0.00
* P+0-4	10 44 49.988154 71 55 26.88834	* 10 48 27.619928 * 71 39 35.93841	10 50 06.808701 71 32 35.49723	0.00 0.00
* P+2-4	10 44 24.205226 71 55 26.19465	* 10 48 02.195322 * 71 39 35.83311	10 49 41.538550 71 32 35.68169	0.00 0.00
* P+4-4	10 43 58.422912 71 55 25.28707	* 10 47 36.770872 * 71 39 35.51721	10 49 16.268339 71 32 35.65695	0.00 0.00
* P+6-4	10 43 32.641374 71 55 24.16561	* 10 47 11.346736 * 71 39 34.99071	10 48 50.998222 71 32 35.42302	0.00 0.00
* P+8-4	10 43 06.860778 71 55 22.83029	* 10 46 45.923070 * 71 39 34.25362	10 48 25.728351 71 32 34.97991	0.00 0.00
* P-8-2	10 43 06.550341 71 57 22.82124	* 10 46 45.744266 * 71 41 34.25033	10 48 25.612801 71 34 34.98235	0.00 0.00
* P-6-2	10 43 32.376966 71 57 24.15909	* 10 47 11.212630 * 71 41 34.98886	10 48 50.926801 71 34 35.42637	0.00 0.00
* P-4-2	10 43 58.204537	* 10 47 36.681467	10 49 16.241050	0.00

	71 57 25.28265	* 71 41 35.51639	71 34 35.66080	0.00
* P-2-2	10 44 24.032890	* 10 48 02.150618	10 49 41.555392	0.00
	71 57 26.19191	* 71 41 35.83291	71 34 35.68563	0.00
* P+0-2	10 44 49.861859	* 10 48 27.619928	10 50 06.869675	0.00
	71 57 26.88687	* 71 41 35.93841	71 34 35.50087	0.00
* P+2-2	10 44 24.032890	* 10 48 02.150618	10 49 41.555392	0.00
	71 57 26.19191	* 71 41 35.83291	71 34 35.68563	0.00
* P+4-2	10 43 58.204537	* 10 47 36.681467	10 49 16.241050	0.00
	71 57 25.28265	* 71 41 35.51639	71 34 35.66080	0.00
* P+6-2	10 43 32.376966	* 10 47 11.212630	10 48 50.926801	0.00
	71 57 24.15909	* 71 41 34.98886	71 34 35.42637	0.00
* P+8-2	10 43 06.550341	* 10 46 45.744266	10 48 25.612801	0.00
	71 57 22.82124	* 71 41 34.25033	71 34 34.98235	0.00
* P-8+0	10 43 06.238758	* 10 46 45.564797	10 48 25.496813	0.00
	71 59 22.81217	* 71 43 34.24703	71 36 34.98478	0.00
* P-6+0	10 43 32.111585	* 10 47 11.078025	10 48 50.855106	0.00
	71 59 24.15255	* 71 43 34.98701	71 36 35.42971	0.00
* P-4+0	10 43 57.985363	* 10 47 36.591729	10 49 16.213649	0.00
	71 59 25.27822	* 71 43 35.51556	71 36 35.66465	0.00
* P-2+0	10 44 23.859928	* 10 48 02.105749	10 49 41.572286	0.00
	71 59 26.18917	* 71 43 35.83270	71 36 35.68958	0.00
* P+0+0	10 44 49.735112	* 10 48 27.619928	10 50 06.930864	0.00
	71 59 26.88539	* 71 43 35.93841	71 36 35.50451	0.00
* P+2+0	10 44 23.859928	* 10 48 02.105749	10 49 41.572286	0.00
	71 59 26.18917	* 71 43 35.83270	71 36 35.68958	0.00
* P+4+0	10 43 57.985363	* 10 47 36.591729	10 49 16.213649	0.00
	71 59 25.27822	* 71 43 35.51556	71 36 35.66465	0.00
* P+6+0	10 43 32.111585	* 10 47 11.078025	10 48 50.855106	0.00
	71 59 24.15255	* 71 43 34.98701	71 36 35.42971	0.00
* P+8+0	10 43 06.238758	* 10 46 45.564797	10 48 25.496813	0.00
	71 59 22.81217	* 71 43 34.24703	71 36 34.98478	0.00
* P-8+2	10 43 05.926023	* 10 46 45.384660	10 48 25.380385	0.00
	72 01 22.80305	* 71 45 34.24372	71 38 34.98721	0.00
* P-6+2	10 43 31.845226	* 10 47 10.942920	10 48 50.783135	0.00
	72 01 24.14598	* 71 45 34.98514	71 38 35.43306	0.00
* P-4+2	10 43 57.765386	* 10 47 36.501657	10 49 16.186136	0.00
	72 01 25.27378	* 71 45 35.51474	71 38 35.66850	0.00
* P-2+2	10 44 23.686337	* 10 48 02.060713	10 49 41.589232	0.00
	72 01 26.18642	* 71 45 35.83249	71 38 35.69353	0.00
* P+0+2	10 44 49.607911	* 10 48 27.619928	10 50 06.992268	0.00
	72 01 26.88390	* 71 45 35.93841	71 38 35.50815	0.00
* P+2+2	10 44 23.686337	* 10 48 02.060713	10 49 41.589232	0.00
	72 01 26.18642	* 71 45 35.83249	71 38 35.69353	0.00

* P+4+2	10 43 57.765386 72 01 25.27378	* 10 47 36.501657 * 71 45 35.51474	10 49 16.186136 71 38 35.66850	0.00 0.00
* P+6+2	10 43 31.845226 72 01 24.14598	* 10 47 10.942920 * 71 45 34.98514	10 48 50.783135 71 38 35.43306	0.00 0.00
* P+8+2	10 43 05.926023 72 01 22.80305	* 10 46 45.384660 * 71 45 34.24372	10 48 25.380385 71 38 34.98721	0.00 0.00
* P-8+4	10 43 05.612130 72 03 22.79391	* 10 46 45.203852 * 71 47 34.24040	10 48 25.263515 71 40 34.98963	0.00 0.00
* P-6+4	10 43 31.577885 72 03 24.13939	* 10 47 10.807310 * 71 47 34.98328	10 48 50.710886 71 40 35.43640	0.00 0.00
* P-4+4	10 43 57.544602 72 03 25.26931	* 10 47 36.411249 * 71 47 35.51391	10 49 16.158511 71 40 35.67235	0.00 0.00
* P-2+4	10 44 23.512114 72 03 26.18365	* 10 48 02.015508 * 71 47 35.83229	10 49 41.606231 71 40 35.69748	0.00 0.00
* P+0+4	10 44 49.480253 72 03 26.88241	* 10 48 27.619928 * 71 47 35.93841	10 50 07.053890 71 40 35.51179	0.00 0.00
* P+2+4	10 44 23.512114 72 03 26.18365	* 10 48 02.015508 * 71 47 35.83229	10 49 41.606231 71 40 35.69748	0.00 0.00
* P+4+4	10 43 57.544602 72 03 25.26931	* 10 47 36.411249 * 71 47 35.51391	10 49 16.158511 71 40 35.67235	0.00 0.00
* P+6+4	10 43 31.577885 72 03 24.13939	* 10 47 10.807310 * 71 47 34.98328	10 48 50.710886 71 40 35.43640	0.00 0.00
* P+8+4	10 43 05.612130 72 03 22.79391	* 10 46 45.203852 * 71 47 34.24040	10 48 25.263515 71 40 34.98963	0.00 0.00
* P-8+6	10 43 05.297071 72 05 22.78473	* 10 46 45.022368 * 71 49 34.23707	10 48 25.146201 71 42 34.99205	0.00 0.00
* P-6+6	10 43 31.309554 72 05 24.13278	* 10 47 10.671194 * 71 49 34.98140	10 48 50.638359 71 42 35.43974	0.00 0.00
* P-4+6	10 43 57.323005 72 05 25.26483	* 10 47 36.320503 * 71 49 35.51307	10 49 16.130772 71 42 35.67620	0.00 0.00
* P-2+6	10 44 23.337254 72 05 26.18088	* 10 48 01.970135 * 71 49 35.83208	10 49 41.623282 71 42 35.70143	0.00 0.00
* P+0+6	10 44 49.352135 72 05 26.88092	* 10 48 27.619928 * 71 49 35.93841	10 50 07.115729 71 42 35.51542	0.00 0.00
* P+2+6	10 44 23.337254 72 05 26.18088	* 10 48 01.970135 * 71 49 35.83208	10 49 41.623282 71 42 35.70143	0.00 0.00
* P+4+6	10 43 57.323005 72 05 25.26483	* 10 47 36.320503 * 71 49 35.51307	10 49 16.130772 71 42 35.67620	0.00 0.00
* P+6+6	10 43 31.309554 72 05 24.13278	* 10 47 10.671194 * 71 49 34.98140	10 48 50.638359 71 42 35.43974	0.00 0.00
* P+8+6	10 43 05.297071 72 05 22.78473	* 10 46 45.022368 * 71 49 34.23707	10 48 25.146201 71 42 34.99205	0.00 0.00

* P-8+8	10 43 04.980841	* 10 46 44.840205	10 48 25.028440	0.00
	72 07 22.77552	* 71 51 34.23372	71 44 34.99447	0.00
* P-6+8	10 43 31.040229	* 10 47 10.534568	10 48 50.565552	0.00
	72 07 24.12614	* 71 51 34.97952	71 44 35.44309	0.00
* P-4+8	10 43 57.100591	* 10 47 36.229418	10 49 16.102920	0.00
	72 07 25.26034	* 71 51 35.51224	71 44 35.68006	0.00
* P-2+8	10 44 23.161756	* 10 48 01.924592	10 49 41.640385	0.00
	72 07 26.17810	* 71 51 35.83187	71 44 35.70538	0.00
* P+0+8	10 44 49.223555	* 10 48 27.619928	10 50 07.177789	0.00
	72 07 26.87942	* 71 51 35.93841	71 44 35.51906	0.00
* P+2+8	10 44 23.161756	* 10 48 01.924592	10 49 41.640385	0.00
	72 07 26.17810	* 71 51 35.83187	71 44 35.70538	0.00
* P+4+8	10 43 57.100591	* 10 47 36.229418	10 49 16.102920	0.00
	72 07 25.26034	* 71 51 35.51224	71 44 35.68006	0.00
* P+6+8	10 43 31.040229	* 10 47 10.534568	10 48 50.565552	0.00
	72 07 24.12614	* 71 51 34.97952	71 44 35.44309	0.00
* P+8+8	10 43 04.980841	* 10 46 44.840205	10 48 25.028440	0.00
	72 07 22.77552	* 71 51 34.23372	71 44 34.99447	0.00
* J1048+7143	10 44 49.735110	* 10 48 27.619926	10 50 06.930862	0.32
1044+719	71 59 26.88535	* 71 43 35.93838	71 36 35.50448	0.10
J1048+71	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.vlba.2012jul rfc_2012b Petrov, 2012, unpublished 138156 observations			
J1642+3948	16 41 17.606228	* 16 42 58.809965	16 43 43.159790	0.77
* 3C345	39 54 10.81496	* 39 48 36.99402	39 45 49.40999	0.52
1641+399	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.vlba.2012jul			
J1642+39	GSFC 2011B astro solution 52621 Observations			

es101atr

OLD RADIO ACTIVITY IN TWO YOUNG RADIO GALAXIES

PI: *Carlo Stanghellini*

Schedule for TORUN (Code Tr)

Page 2

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Tue 1 Mar 2022 Day 60 ---										
Next scan frequencies:		1626.49	1626.49	1626.49	1626.49	1626.49	1690.49	1690.49	1690.49	1690.49
Next BBC frequencies:		673.51	673.51	673.51	673.51	673.51	609.51	609.51	609.51	609.51
Next scan bandwidths:		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00

20 30 00	4C39.25	08 22 45	71.9	134.9	-1.1		-33.2	0	0	20 30 00
20 33 00	---	08 25 46	72.2	136.5	-1.0		-32.1	180	23	20 30 01
20 37 41	0Q208	08 30 27	25.6	76.1	-5.6		-41.5	91	23	20 37 41
20 46 41	---	08 39 29	26.9	77.8	-5.5		-41.8	540	93	20 37 42
20 47 03	0Q208	08 39 51	26.9	77.9	-5.5		-41.8	16	93	20 47 03
20 56 03	---	08 48 53	28.3	79.5	-5.3		-42.1	540	162	20 47 04
20 56 25	0Q208	08 49 15	28.3	79.6	-5.3		-42.1	16	162	20 56 25
21 05 25	---	08 58 16	29.6	81.3	-5.2		-42.4	540	232	20 56 26
21 05 47	0Q208	08 58 38	29.7	81.3	-5.2		-42.4	16	232	21 05 47
21 14 47	---	09 07 40	31.0	83.0	-5.0		-42.6	540	301	21 05 48
21 15 09	0Q208	09 08 02	31.1	83.1	-5.0		-42.6	16	301	21 15 09
21 24 09	---	09 17 03	32.4	84.8	-4.8		-42.8	540	371	21 15 10
21 24 57	J1326+3154	09 17 52	41.1	89.9	-4.2		-44.9	2	371	21 24 57
21 28 57	=1323+321	09 21 53	41.7	90.7	-4.1		-44.9	240	402	21 24 58
21 29 33	J1331+3030	09 22 28	40.1	91.2	-4.2		-44.1	15	402	21 29 33
21 31 33	=3C286	09 24 28	40.4	91.6	-4.1		-44.1	120	417	21 29 34
21 32 26	J1419+2706	09 25 21	30.8	85.0	-4.9		-42.2	3	417	21 32 26
21 34 26	=1417+273	09 27 22	31.1	85.4	-4.9		-42.2	120	433	21 32 27
21 34 55	0Q208	09 27 51	34.1	86.9	-4.7		-42.9	4	433	21 34 55
21 43 55	---	09 36 53	35.4	88.7	-4.5		-43.0	540	502	21 34 56
21 44 17	0Q208	09 37 15	35.5	88.7	-4.5		-43.0	16	502	21 44 17
21 53 17	---	09 46 16	36.8	90.5	-4.4		-43.0	540	572	21 44 18
21 53 39	0Q208	09 46 38	36.9	90.6	-4.4		-43.0	16	572	21 53 39
22 02 39	---	09 55 40	38.2	92.4	-4.2		-43.0	540	642	21 53 40
22 03 01	0Q208	09 56 02	38.3	92.5	-4.2		-43.0	16	642	22 03 01
22 12 01	---	10 05 03	39.6	94.4	-4.0		-42.9	540	711	22 03 02

Schedule for TORUN (Code Tr)

Page 3

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC
---	Tue 1 Mar 2022	Day	60	---						
22 12 23	0Q208	10 05 25	39.7	94.5	-4.0		-42.9	16	711	22 12 23
22 21 23	---	10 14 27	41.0	96.4	-3.9		-42.7	540	781	22 12 24
22 22 12	J1326+3154	10 15 16	49.7	102.4	-3.2		-43.6	3	781	22 22 12
22 26 12	=1323+321	10 19 17	50.3	103.3	-3.1		-43.4	240	812	22 22 13
22 26 47	J1331+3030	10 19 52	48.6	103.8	-3.2		-42.5	15	812	22 26 47
22 28 47	=3C286	10 21 52	48.9	104.2	-3.2		-42.4	120	827	22 26 48
22 29 40	J1419+2706	10 22 45	39.4	96.6	-4.0		-42.0	3	827	22 29 40
22 31 40	=1417+273	10 24 46	39.7	97.0	-3.9		-42.0	120	842	22 29 41
22 32 14	0Q208	10 25 20	42.7	98.7	-3.7		-42.4	9	842	22 32 14
22 41 14	---	10 34 21	44.0	100.8	-3.6		-42.1	540	912	22 32 15
22 41 36	0Q208	10 34 43	44.1	100.8	-3.6		-42.1	16	912	22 41 36
22 50 36	---	10 43 45	45.4	102.9	-3.4		-41.7	540	982	22 41 37
22 50 58	0Q208	10 44 07	45.4	103.0	-3.4		-41.7	16	982	22 50 58
22 59 58	---	10 53 08	46.7	105.2	-3.2		-41.2	540	1051	22 50 59
23 00 20	0Q208	10 53 30	46.8	105.3	-3.2		-41.2	16	1051	23 00 20
23 09 20	---	11 02 32	48.1	107.5	-3.1		-40.6	540	1121	23 00 21
23 09 42	0Q208	11 02 54	48.2	107.6	-3.1		-40.6	16	1121	23 09 42
23 18 42	---	11 11 55	49.4	109.9	-2.9		-39.9	540	1190	23 09 43
23 19 31	J1326+3154	11 12 45	57.8	117.9	-2.2		-38.6	4	1190	23 19 31
23 23 31	=1323+321	11 16 45	58.3	119.2	-2.2		-38.1	240	1221	23 19 32
23 24 06	J1331+3030	11 17 20	56.7	119.4	-2.2		-37.3	15	1221	23 24 06
23 26 06	=3C286	11 19 21	56.9	120.1	-2.2		-37.1	120	1237	23 24 07
23 27 00	J1419+2706	11 20 14	47.7	110.0	-3.0		-39.3	5	1237	23 27 00
23 29 00	=1417+273	11 22 14	48.0	110.5	-3.0		-39.2	120	1252	23 27 01
23 29 33	0Q208	11 22 48	51.0	112.8	-2.8		-39.0	9	1252	23 29 33
23 38 33	---	11 31 50	52.2	115.2	-2.6		-38.1	540	1322	23 29 34
23 38 55	0Q208	11 32 12	52.2	115.4	-2.6		-38.1	16	1322	23 38 55
23 47 55	---	11 41 13	53.5	118.0	-2.4		-37.1	540	1391	23 38 56
23 48 17	0Q208	11 41 35	53.5	118.1	-2.4		-37.0	16	1391	23 48 17
23 57 17	---	11 50 37	54.7	120.8	-2.3		-35.9	540	1461	23 48 18

Schedule for TORUN (Code Tr)

Page 4

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Start: Tue 1 Mar 2022 Day 60 -- Stop: Wed 2 Mar 2022 Day 61 ---										
23 57 39	0Q208	11 50 59	54.7	120.9	-2.3		-35.8	16	1461	23 57 39
00 06 39	---	12 00 00	55.9	123.8	-2.1		-34.6	540	1530	23 57 40
00 07 01	0Q208	12 00 22	55.9	123.9	-2.1		-34.5	16	1530	00 07 01
00 16 01	---	12 09 24	57.0	126.9	-2.0		-33.1	540	1600	00 07 02
00 17 03	J1326+3154	12 10 25	64.6	139.3	-1.3		-27.4	19	1600	00 17 03
00 21 03	=1323+321	12 14 26	65.0	141.1	-1.2		-26.3	240	1631	00 17 04
00 21 38	J1331+3030	12 15 01	63.3	140.6	-1.3		-26.2	15	1631	00 21 38
00 23 38	=3C286	12 17 02	63.5	141.5	-1.3		-25.7	120	1646	00 21 39
00 24 41	J1419+2706	12 18 05	55.4	126.7	-2.0		-32.7	19	1646	00 24 41
00 26 41	=1417+273	12 20 06	55.6	127.4	-2.0		-32.4	120	1662	00 24 42
00 27 15	0Q208	12 20 39	58.3	130.8	-1.8		-31.1	10	1662	00 27 15
00 36 15	---	12 29 41	59.3	134.1	-1.6		-29.3	540	1731	00 27 16
00 36 37	0Q208	12 30 03	59.4	134.2	-1.6		-29.3	16	1731	00 36 37
00 45 37	---	12 39 04	60.3	137.7	-1.5		-27.3	540	1801	00 36 38
00 45 59	0Q208	12 39 26	60.4	137.9	-1.5		-27.2	16	1801	00 45 59
00 54 59	---	12 48 28	61.2	141.5	-1.3		-25.1	540	1870	00 46 00
00 55 21	0Q208	12 48 50	61.3	141.7	-1.3		-25.0	16	1870	00 55 21
01 04 21	---	12 57 51	62.1	145.5	-1.2		-22.7	540	1940	00 55 22
01 04 43	0Q208	12 58 13	62.1	145.7	-1.2		-22.6	16	1940	01 04 43
01 13 43	---	13 07 15	62.8	149.7	-1.0		-20.2	540	2010	01 04 44
01 14 39	J1326+3154	13 08 12	68.4	168.9	-0.3		-7.8	3	2010	01 14 39
01 18 39	=1323+321	13 12 12	68.5	171.2	-0.3		-6.2	240	2040	01 14 40
01 19 15	J1331+3030	13 12 48	67.0	169.2	-0.3		-7.5	16	2040	01 19 15
01 21 15	=3C286	13 14 48	67.1	170.3	-0.3		-6.7	120	2056	01 19 16
01 22 15	J1419+2706	13 15 48	61.2	148.7	-1.1		-20.5	2	2056	01 22 15
01 24 15	=1417+273	13 17 48	61.4	149.6	-1.1		-20.0	120	2071	01 22 16
01 27 26	3C345	13 21 00	53.5	90.5	-3.4		-51.4	58	2071	01 27 26
01 30 26	---	13 24 01	54.0	91.1	-3.3		-51.4	180	2095	01 27 27
01 33 16	0Q208	13 26 51	64.1	158.9	-0.7		-14.2	20	2095	01 33 16
01 42 16	---	13 35 52	64.5	163.4	-0.5		-11.3	540	2164	01 33 17

Schedule for TORUN (Code Tr)

Page 5

Old radio activity in two young radio galaxies

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Wed 2 Mar 2022 Day 61 ---										
01 42 38	OQ208	13 36 14	64.6	163.6	-0.5		-11.1	15	2164	01 42 38
01 51 38	---	13 45 16	64.9	168.1	-0.4		-8.1	540	2234	01 42 39
01 52 00	OQ208	13 45 38	64.9	168.3	-0.4		-7.9	15	2234	01 52 00
02 01 00	---	13 54 40	65.1	173.0	-0.2		-4.8	540	2303	01 52 01
02 01 22	OQ208	13 55 02	65.1	173.2	-0.2		-4.6	15	2303	02 01 22
02 10 22	---	14 04 03	65.2	177.9	-0.1		-1.4	540	2373	02 01 23
02 10 44	OQ208	14 04 25	65.2	178.1	-0.1		-1.3	15	2373	02 10 44
02 19 44	---	14 13 27	65.2	182.9	0.1		1.9	540	2442	02 10 45
02 21 08	J1326+3154	14 14 51	67.0	206.7	0.8		18.5	22	2442	02 21 08
02 25 08	=1323+321	14 18 52	66.7	208.7	0.9		19.8	240	2473	02 21 09
02 25 50	J1331+3030	14 19 34	65.7	205.5	0.8		17.4	20	2473	02 25 50
02 27 50	=3C286	14 21 34	65.6	206.5	0.8		18.1	120	2489	02 25 51
02 29 23	J1419+2706	14 23 07	63.9	181.1	0.0		0.7	27	2489	02 29 23
02 31 23	=1417+273	14 25 08	63.9	182.1	0.1		1.4	120	2504	02 29 24
02 31 59	OQ208	14 25 44	65.0	189.3	0.3		6.3	7	2504	02 31 59
02 40 59	---	14 34 45	64.8	193.9	0.4		9.4	540	2574	02 32 00
02 41 21	OQ208	14 35 08	64.7	194.1	0.5		9.6	15	2574	02 41 21
02 50 21	---	14 44 09	64.4	198.6	0.6		12.6	540	2643	02 41 22
02 50 43	OQ208	14 44 31	64.3	198.8	0.6		12.7	15	2643	02 50 43
02 59 43	---	14 53 33	63.9	203.2	0.8		15.6	540	2713	02 50 44
03 00 05	OQ208	14 53 55	63.8	203.4	0.8		15.7	15	2713	03 00 05
03 09 05	---	15 02 56	63.3	207.7	0.9		18.5	540	2782	03 00 06
03 09 27	OQ208	15 03 18	63.2	207.8	0.9		18.6	15	2782	03 09 27
03 18 27	---	15 12 20	62.6	211.9	1.1		21.2	540	2852	03 09 28
03 20 03	J1326+3154	15 13 56	61.3	232.6	1.8		34.2	40	2852	03 20 03
03 24 03	=1323+321	15 17 57	60.8	234.1	1.8		34.9	240	2883	03 20 04
03 24 48	J1331+3030	15 18 42	60.2	231.0	1.8		32.8	24	2883	03 24 48
03 26 48	=3C286	15 20 42	59.9	231.8	1.8		33.1	120	2898	03 24 49
03 28 29	J1419+2706	15 22 23	61.5	209.6	1.0		19.5	41	2898	03 28 29
03 30 29	=1417+273	15 24 23	61.4	210.5	1.1		20.0	120	2914	03 28 30

Schedule for TORUN (Code Tr)

Page 6

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
03 31 12	OQ208	15 25 07	61.5	217.5	1.3		24.5	14	2914	03 31 12
03 40 12	---	15 34 08	60.6	221.2	1.4		26.7	540	2983	03 31 13
03 40 34	OQ208	15 34 30	60.6	221.3	1.4		26.8	16	2983	03 40 34
03 49 34	---	15 43 32	59.6	224.8	1.6		28.8	540	3053	03 40 35
03 49 56	OQ208	15 43 54	59.6	225.0	1.6		28.8	16	3053	03 49 56
03 58 56	---	15 52 55	58.6	228.3	1.7		30.6	540	3123	03 49 57
03 59 18	OQ208	15 53 17	58.6	228.5	1.8		30.7	16	3123	03 59 18
04 08 18	---	16 02 19	57.5	231.7	1.9		32.4	540	3192	03 59 19
04 08 40	OQ208	16 02 41	57.5	231.8	1.9		32.4	16	3192	04 08 40
04 17 40	---	16 11 42	56.4	234.8	2.1		33.9	540	3262	04 08 41
04 19 11	J1326+3154	16 13 14	53.5	251.1	2.8		41.9	44	3262	04 19 11
04 23 11	=1323+321	16 17 14	52.9	252.1	2.8		42.3	240	3293	04 19 12
04 23 54	J1331+3030	16 17 57	52.4	249.5	2.8		40.7	23	3293	04 23 54
04 25 54	=3C286	16 19 58	52.2	250.1	2.8		40.9	120	3308	04 23 55
04 27 30	J1419+2706	16 21 34	55.7	232.5	2.0		32.3	45	3308	04 27 30
04 29 30	=1417+273	16 23 34	55.4	233.2	2.0		32.6	120	3324	04 27 31
04 30 15	OQ208	16 24 19	54.8	238.9	2.3		35.7	19	3324	04 30 15
04 39 15	---	16 33 21	53.6	241.6	2.4		36.9	540	3393	04 30 16
04 39 37	OQ208	16 33 43	53.6	241.7	2.4		36.9	16	3393	04 39 37
04 48 37	---	16 42 44	52.4	244.3	2.6		38.0	540	3463	04 39 38
04 48 59	OQ208	16 43 06	52.3	244.4	2.6		38.0	16	3463	04 48 59
04 57 59	---	16 52 08	51.1	247.0	2.7		38.9	540	3532	04 49 00
04 58 21	OQ208	16 52 30	51.1	247.1	2.7		38.9	16	3532	04 58 21
05 07 21	---	17 01 31	49.8	249.5	2.9		39.7	540	3602	04 58 22
05 07 43	OQ208	17 01 53	49.7	249.6	2.9		39.7	16	3602	05 07 43
05 16 43	---	17 10 55	48.5	251.9	3.0		40.4	540	3671	05 07 44
05 18 00	J1326+3154	17 12 12	44.8	265.0	3.7		44.7	36	3671	05 18 00
05 22 00	=1323+321	17 16 12	44.2	265.9	3.8		44.8	240	3702	05 18 01
05 22 40	J1331+3030	17 16 53	43.9	263.6	3.7		43.8	22	3702	05 22 40
05 24 40	=3C286	17 18 53	43.6	264.1	3.8		43.8	120	3718	05 22 41

Schedule for TORUN (Code Tr)

Page 7

Old radio activity in two young radio galaxies

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SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
05 26 02	J1419+2706	17 20 15	48.0	249.7	3.0		39.2	37	3718	05 26 02
05 28 02	=1417+273	17 22 15	47.7	250.2	3.0		39.3	120	3733	05 26 03
05 28 43	OQ208	17 22 57	46.7	254.9	3.2		41.2	18	3733	05 28 43
05 37 43	---	17 31 59	45.4	257.0	3.4		41.7	540	3803	05 28 44
05 38 05	OQ208	17 32 21	45.4	257.1	3.4		41.7	16	3803	05 38 05
05 47 05	---	17 41 22	44.0	259.2	3.6		42.1	540	3872	05 38 06
05 47 27	OQ208	17 41 44	44.0	259.3	3.6		42.1	16	3872	05 47 27
05 56 27	---	17 50 46	42.7	261.3	3.7		42.4	540	3942	05 47 28
05 56 49	OQ208	17 51 08	42.6	261.4	3.7		42.4	16	3942	05 56 49
06 05 49	---	18 00 09	41.3	263.3	3.9		42.7	540	4011	05 56 50
06 06 11	OQ208	18 00 31	41.2	263.4	3.9		42.7	16	4011	06 06 11
06 15 11	---	18 09 33	39.9	265.3	4.0		42.8	540	4081	06 06 12
06 16 17	J1326+3154	18 10 39	36.1	276.6	4.7		44.6	28	4081	06 16 17
06 20 17	=1323+321	18 14 39	35.5	277.4	4.8		44.5	240	4112	06 16 18
06 20 55	J1331+3030	18 15 18	35.1	275.4	4.7		43.9	21	4112	06 20 55
06 22 55	=3C286	18 17 18	34.8	275.8	4.8		43.8	120	4127	06 20 56
06 24 06	J1419+2706	18 18 29	39.5	263.3	4.0		42.0	30	4127	06 24 06
06 26 06	=1417+273	18 20 29	39.2	263.7	4.0		42.1	120	4143	06 24 07
06 26 43	OQ208	18 21 07	38.1	267.7	4.2		43.0	15	4143	06 26 43
06 35 43	---	18 30 08	36.8	269.5	4.4		43.0	540	4212	06 26 44
06 36 05	OQ208	18 30 30	36.7	269.6	4.4		43.0	16	4212	06 36 05
06 45 05	---	18 39 32	35.4	271.4	4.5		43.0	540	4282	06 36 06
06 45 27	OQ208	18 39 54	35.3	271.5	4.5		43.0	16	4282	06 45 27
06 54 27	---	18 48 55	33.9	273.3	4.7		42.9	540	4352	06 45 28
06 54 49	OQ208	18 49 17	33.9	273.3	4.7		42.9	16	4352	06 54 49
07 03 49	---	18 58 19	32.5	275.1	4.8		42.8	540	4421	06 54 50
07 04 11	OQ208	18 58 41	32.5	275.1	4.8		42.8	16	4421	07 04 11
07 13 11	---	19 07 42	31.1	276.8	5.0		42.6	540	4491	07 04 12
07 14 10	J1326+3154	19 08 41	27.6	287.1	5.7		42.5	23	4491	07 14 10
07 18 10	=1323+321	19 12 42	27.0	287.8	5.8		42.3	240	4522	07 14 11

Schedule for TORUN (Code Tr) Page 8

Old radio activity in two young radio galaxies

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Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
07 18 47	J1331+3030	19 13 19	26.6	286.0	5.7		42.0	20	4522	07 18 47
07 20 47	=3C286	19 15 19	26.3	286.4	5.7		41.9	120	4537	07 18 48
07 21 50	J1419+2706	19 16 22	30.8	275.0	4.9		42.2	25	4537	07 21 50
07 23 50	=1417+273	19 18 23	30.5	275.4	5.0		42.1	120	4552	07 21 51
07 24 24	OQ208	19 18 57	29.5	279.0	5.2		42.4	13	4552	07 24 24
07 33 24	---	19 27 59	28.1	280.6	5.3		42.1	540	4622	07 24 25
07 33 46	OQ208	19 28 21	28.1	280.7	5.3		42.1	16	4622	07 33 46
07 42 46	---	19 37 22	26.7	282.4	5.5		41.8	540	4692	07 33 47
07 43 08	OQ208	19 37 44	26.7	282.4	5.5		41.8	16	4692	07 43 08
07 52 08	---	19 46 46	25.4	284.1	5.6		41.4	540	4761	07 43 09
07 52 30	OQ208	19 47 08	25.3	284.2	5.7		41.4	16	4761	07 52 30
08 01 30	---	19 56 09	24.0	285.8	5.8		41.0	540	4831	07 52 31
08 01 52	OQ208	19 56 31	24.0	285.9	5.8		41.0	16	4831	08 01 52
08 10 52	---	20 05 33	22.7	287.5	6.0		40.6	540	4900	08 01 53
08 11 47	J1326+3154	20 06 28	19.5	297.3	6.7		38.9	20	4900	08 11 47
08 15 47	=1323+321	20 10 29	19.0	298.0	6.7		38.6	240	4931	08 11 48
08 16 23	J1331+3030	20 11 05	18.5	296.3	6.6		38.6	19	4931	08 16 23
08 18 23	=3C286	20 13 05	18.2	296.7	6.7		38.5	120	4947	08 16 24
08 19 22	J1419+2706	20 14 04	22.3	285.7	5.9		40.4	21	4947	08 19 22
08 21 22	=1417+273	20 16 04	22.0	286.1	5.9		40.4	120	4962	08 19 23
08 21 54	OQ208	20 16 37	21.1	289.5	6.1		40.0	11	4962	08 21 54
08 30 00	---	20 24 44	19.9	291.0	6.3		39.6	486	5025	08 21 55

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

Setup group: 12	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 7 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 7

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* 4C39.25	09 23 55.319216	* 09 27 03.013937	09 28 26.800053	0.31
J0927+3902	39 15 23.56644	* 39 02 20.85185	38 56 36.09222	0.16
0923+392	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J0927+39	GSFC 2016a X/S astro solution, 250526 observations.			
1323+321	13 23 57.912496	* 13 26 16.512318	13 27 18.470114	0.76
* J1326+3154	32 09 43.11536	* 31 54 09.51494	31 47 05.99460	0.62
J1326+31	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 128 observations.			
3C286	13 28 49.657769	* 13 31 08.288061	13 32 10.216165	0.17
* J1331+3030	30 45 58.64066	* 30 30 32.95930	30 23 32.88991	0.16
1328+307	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1331+30	GSFC 2016a X/S astro solution, 269 observations.			
* 0Q208	14 04 45.615156	* 14 07 00.394415	14 08 00.441344	0.24
J1407+2827	28 41 29.23515	* 28 27 14.69019	28 20 44.75116	0.35
1404+286	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1407+28	GSFC 2016a X/S astro solution, 68278 observations.			
1417+273	14 17 45.094593	* 14 19 59.297078	14 20 59.008575	0.03
* J1419+2706	27 20 09.10604	* 27 06 25.55282	27 00 09.01939	0.04
J1419+27	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 1160 observations.			
* 3C345	16 41 17.606229	* 16 42 58.809967	16 43 43.185334	0.79
J1642+3948	39 54 10.81492	* 39 48 36.99399	39 45 49.32890	0.59
1641+399	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1642+39	GSFC 2016a X/S astro solution, 53724 observations.			

eg113atr

GAMMA-RAY YOUNG RADIO SOURCE

PI: *Giacomo Principe*

Schedule for TORUN (Code Tr)

Page 2

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
Next scan frequencies: 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49										
Next BBC frequencies: 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51										
Next scan bandwidths: 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00										
17 30 00	J1007+1356	05 26 12	22.6	97.1	-4.7		-37.9	0	0	17 30 00
17 31 20	=1004+141	05 27 33	22.8	97.3	-4.7		-37.8	80	10	17 30 01
17 31 50	1007+142	05 28 03	22.6	96.9	-4.7		-37.9	19	10	17 31 50
17 34 50	---	05 31 03	23.1	97.5	-4.7		-37.8	180	33	17 31 51
17 35 20	J1007+1356	05 31 33	23.4	98.2	-4.6		-37.7	18	33	17 35 20
17 36 40	=1004+141	05 32 53	23.6	98.5	-4.6		-37.7	80	44	17 35 21
17 37 10	1007+142	05 33 24	23.4	98.0	-4.6		-37.8	19	44	17 37 10
17 40 10	---	05 36 24	23.8	98.7	-4.6		-37.7	180	67	17 37 11
17 40 40	J1007+1356	05 36 54	24.2	99.3	-4.5		-37.6	18	67	17 40 40
17 42 00	=1004+141	05 38 14	24.4	99.6	-4.5		-37.6	80	77	17 40 41
17 42 30	1007+142	05 38 44	24.2	99.2	-4.5		-37.6	19	77	17 42 30
17 45 30	---	05 41 45	24.6	99.8	-4.5		-37.6	180	100	17 42 31
17 46 00	J1007+1356	05 42 15	25.0	100.4	-4.4		-37.5	18	100	17 46 00
17 47 20	=1004+141	05 43 35	25.2	100.7	-4.4		-37.4	80	111	17 46 01
17 47 50	1007+142	05 44 05	25.0	100.3	-4.5		-37.5	19	111	17 47 50
17 50 50	---	05 47 06	25.4	100.9	-4.4		-37.4	180	134	17 47 51
17 51 20	J1007+1356	05 47 36	25.8	101.6	-4.4		-37.3	18	134	17 51 20
17 52 40	=1004+141	05 48 56	26.0	101.9	-4.3		-37.2	80	144	17 51 21
17 53 10	1007+142	05 49 26	25.8	101.4	-4.4		-37.3	19	144	17 53 10
17 56 10	---	05 52 27	26.2	102.1	-4.3		-37.2	180	167	17 53 11
17 56 40	J1007+1356	05 52 57	26.5	102.7	-4.3		-37.1	18	167	17 56 40
17 58 00	=1004+141	05 54 17	26.7	103.0	-4.2		-37.1	80	178	17 56 41
17 58 30	1007+142	05 54 47	26.6	102.6	-4.3		-37.1	19	178	17 58 30
18 01 30	---	05 57 48	27.0	103.2	-4.2		-37.0	180	201	17 58 31
18 02 00	J1007+1356	05 58 18	27.3	103.9	-4.2		-36.9	18	201	18 02 00
18 03 20	=1004+141	05 59 38	27.5	104.2	-4.2		-36.8	80	211	18 02 01

Schedule for TORUN (Code Tr)

Page 3

Gamma-ray young radio source

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SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
18 03 50	1007+142	06 00 08	27.3	103.7	-4.2		-36.9	19	211	18 03 50
18 06 50	---	06 03 08	27.8	104.4	-4.1		-36.8	180	234	18 03 51
18 07 20	J1007+1356	06 03 39	28.1	105.1	-4.1		-36.7	18	234	18 07 20
18 08 40	=1004+141	06 04 59	28.3	105.4	-4.1		-36.6	80	245	18 07 21
18 09 10	1007+142	06 05 29	28.1	104.9	-4.1		-36.7	18	245	18 09 10
18 12 10	---	06 08 29	28.6	105.6	-4.0		-36.6	180	268	18 09 11
18 12 40	J1007+1356	06 08 59	28.9	106.2	-4.0		-36.4	18	268	18 12 40
18 14 00	=1004+141	06 10 20	29.1	106.5	-4.0		-36.4	80	278	18 12 41
18 14 30	1007+142	06 10 50	28.9	106.1	-4.0		-36.5	18	278	18 14 30
18 17 30	---	06 13 50	29.3	106.8	-4.0		-36.3	180	301	18 14 31
18 18 00	J1007+1356	06 14 20	29.6	107.4	-3.9		-36.2	18	301	18 18 00
18 19 20	=1004+141	06 15 41	29.8	107.7	-3.9		-36.1	80	312	18 18 01
18 19 50	1007+142	06 16 11	29.7	107.3	-3.9		-36.2	18	312	18 19 50
18 22 50	---	06 19 11	30.1	108.0	-3.9		-36.0	180	335	18 19 51
18 23 20	J1007+1356	06 19 41	30.4	108.7	-3.8		-35.9	18	335	18 23 20
18 24 40	=1004+141	06 21 01	30.6	109.0	-3.8		-35.8	80	345	18 23 21
18 25 10	1007+142	06 21 31	30.4	108.5	-3.8		-35.9	18	345	18 25 10
18 28 10	---	06 24 32	30.9	109.2	-3.8		-35.8	180	368	18 25 11
18 28 40	J1007+1356	06 25 02	31.2	109.9	-3.7		-35.6	18	368	18 28 40
18 30 00	=1004+141	06 26 22	31.4	110.2	-3.7		-35.5	80	379	18 28 41
18 30 30	1007+142	06 26 52	31.2	109.7	-3.7		-35.6	18	379	18 30 30
18 33 30	---	06 29 53	31.6	110.4	-3.7		-35.4	180	402	18 30 31
18 34 00	J1007+1356	06 30 23	31.9	111.1	-3.6		-35.2	18	402	18 34 00
18 35 20	=1004+141	06 31 43	32.1	111.4	-3.6		-35.1	80	412	18 34 01
18 35 50	1007+142	06 32 13	31.9	111.0	-3.6		-35.3	18	412	18 35 50
18 38 50	---	06 35 14	32.4	111.7	-3.6		-35.1	180	435	18 35 51
18 39 20	J1007+1356	06 35 44	32.7	112.4	-3.6		-34.9	18	435	18 39 20
18 40 40	=1004+141	06 37 04	32.8	112.7	-3.5		-34.8	80	446	18 39 21
18 41 10	1007+142	06 37 34	32.7	112.2	-3.6		-34.9	18	446	18 41 10
18 44 10	---	06 40 35	33.1	112.9	-3.5		-34.7	180	469	18 41 11
18 44 40	J1007+1356	06 41 05	33.4	113.7	-3.5		-34.5	18	469	18 44 40
18 46 00	=1004+141	06 42 25	33.6	114.0	-3.4		-34.4	80	479	18 44 41

Schedule for TORUN (Code Tr)

Page 4

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
18 46 30	1007+142	06 42 55	33.4	113.5	-3.5		-34.6	18	479	18 46 30
18 49 30	---	06 45 55	33.8	114.2	-3.4		-34.3	180	502	18 46 31
18 50 00	J1007+1356	06 46 26	34.1	114.9	-3.4		-34.1	18	502	18 50 00
18 51 20	=1004+141	06 47 46	34.3	115.3	-3.4		-34.0	80	513	18 50 01
18 51 50	1007+142	06 48 16	34.2	114.8	-3.4		-34.2	18	513	18 51 50
18 54 50	---	06 51 16	34.6	115.5	-3.3		-33.9	180	536	18 51 51
18 55 20	J1007+1356	06 51 46	34.9	116.3	-3.3		-33.7	18	536	18 55 20
18 56 40	=1004+141	06 53 07	35.0	116.6	-3.3		-33.6	80	546	18 55 21
18 57 10	1007+142	06 53 37	34.9	116.1	-3.3		-33.8	18	546	18 57 10
19 00 10	---	06 56 37	35.3	116.8	-3.2		-33.5	180	569	18 57 11
19 00 40	J1007+1356	06 57 07	35.6	117.6	-3.2		-33.2	18	569	19 00 40
19 02 00	=1004+141	06 58 28	35.8	117.9	-3.2		-33.1	80	580	19 00 41
19 02 30	1007+142	06 58 58	35.6	117.4	-3.2		-33.3	18	580	19 02 30
19 05 30	---	07 01 58	36.0	118.2	-3.2		-33.0	180	603	19 02 31
19 06 00	J1007+1356	07 02 28	36.3	118.9	-3.1		-32.8	18	603	19 06 00
19 07 20	=1004+141	07 03 48	36.5	119.3	-3.1		-32.7	80	613	19 06 01
19 07 50	1007+142	07 04 18	36.3	118.8	-3.1		-32.8	18	613	19 07 50
19 10 50	---	07 07 19	36.7	119.5	-3.1		-32.6	180	636	19 07 51
19 11 20	J1007+1356	07 07 49	37.0	120.3	-3.0		-32.3	18	636	19 11 20
19 12 40	=1004+141	07 09 09	37.2	120.6	-3.0		-32.1	80	647	19 11 21
19 13 10	1007+142	07 09 39	37.0	120.1	-3.0		-32.4	18	647	19 13 10
19 16 10	---	07 12 40	37.4	120.9	-3.0		-32.1	180	670	19 13 11
19 16 40	J1007+1356	07 13 10	37.7	121.7	-2.9		-31.8	18	670	19 16 40
19 18 00	=1004+141	07 14 30	37.8	122.0	-2.9		-31.6	80	680	19 16 41
19 18 30	1007+142	07 15 00	37.7	121.5	-2.9		-31.8	18	680	19 18 30
19 21 30	---	07 18 01	38.1	122.3	-2.9		-31.5	180	703	19 18 31
19 22 00	J1007+1356	07 18 31	38.3	123.1	-2.8		-31.2	18	703	19 22 00
19 23 20	=1004+141	07 19 51	38.5	123.4	-2.8		-31.1	80	714	19 22 01
19 26 20	J0927+3902	07 22 52	64.3	110.7	-2.1		-46.2	70	714	19 26 20
19 31 20	=4C39.25	07 27 52	65.0	112.3	-2.0		-45.6	300	752	19 26 21

Schedule for TORUN (Code Tr)

Page 5

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
19 34 20	J1007+1356	07 30 53	39.9	126.4	-2.6		-29.8	71	752	19 34 20
19 35 40	=1004+141	07 32 13	40.0	126.8	-2.6		-29.7	80	763	19 34 21
19 36 10	1007+142	07 32 43	39.9	126.2	-2.6		-29.9	18	763	19 36 10
19 39 10	---	07 35 44	40.3	127.1	-2.6		-29.6	180	786	19 36 11
19 39 40	J1007+1356	07 36 14	40.5	127.9	-2.5		-29.2	17	786	19 39 40
19 41 00	=1004+141	07 37 34	40.7	128.3	-2.5		-29.1	80	796	19 39 41
19 41 30	1007+142	07 38 04	40.5	127.7	-2.6		-29.3	18	796	19 41 30
19 44 30	---	07 41 04	40.9	128.6	-2.5		-28.9	180	819	19 41 31
19 45 00	J1007+1356	07 41 35	41.1	129.4	-2.5		-28.6	17	819	19 45 00
19 46 20	=1004+141	07 42 55	41.3	129.8	-2.4		-28.4	80	830	19 45 01
19 46 50	1007+142	07 43 25	41.2	129.2	-2.5		-28.6	18	830	19 46 50
19 49 50	---	07 46 25	41.5	130.1	-2.4		-28.3	180	853	19 46 51
19 50 20	J1007+1356	07 46 55	41.8	130.9	-2.4		-27.9	17	853	19 50 20
19 51 40	=1004+141	07 48 16	41.9	131.3	-2.3		-27.7	80	863	19 50 21
19 52 10	1007+142	07 48 46	41.8	130.7	-2.4		-28.0	18	863	19 52 10
19 55 10	---	07 51 46	42.1	131.6	-2.3		-27.6	180	886	19 52 11
19 55 40	J1007+1356	07 52 16	42.4	132.5	-2.3		-27.1	17	886	19 55 40
19 57 00	=1004+141	07 53 37	42.5	132.9	-2.3		-27.0	80	897	19 55 41
19 57 30	1007+142	07 54 07	42.4	132.3	-2.3		-27.2	18	897	19 57 30
20 00 30	---	07 57 07	42.7	133.2	-2.2		-26.8	180	920	19 57 31
20 01 00	J1007+1356	07 57 37	42.9	134.0	-2.2		-26.4	17	920	20 01 00
20 02 20	=1004+141	07 58 57	43.1	134.4	-2.2		-26.2	80	930	20 01 01
20 02 50	1007+142	07 59 28	43.0	133.9	-2.2		-26.5	18	930	20 02 50
20 05 50	---	08 02 28	43.3	134.8	-2.1		-26.1	180	953	20 02 51
20 06 20	J1007+1356	08 02 58	43.5	135.6	-2.1		-25.6	17	953	20 06 20
20 07 40	=1004+141	08 04 18	43.6	136.0	-2.1		-25.4	80	964	20 06 21
20 08 10	1007+142	08 04 48	43.5	135.5	-2.1		-25.7	18	964	20 08 10
20 11 10	---	08 07 49	43.9	136.4	-2.1		-25.3	180	987	20 08 11
20 11 40	J1007+1356	08 08 19	44.1	137.3	-2.0		-24.8	17	987	20 11 40
20 13 00	=1004+141	08 09 39	44.2	137.7	-2.0		-24.6	80	997	20 11 41

Schedule for TORUN (Code Tr)

Page 6

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
20 13 30	1007+142	08 10 09	44.1	137.1	-2.0		-24.9	18	997	20 13 30
20 16 30	---	08 13 10	44.4	138.0	-2.0		-24.4	180	1020	20 13 31
20 17 00	J1007+1356	08 13 40	44.6	138.9	-1.9		-24.0	17	1020	20 17 00
20 18 20	=1004+141	08 15 00	44.7	139.3	-1.9		-23.8	80	1031	20 17 01
20 18 50	1007+142	08 15 30	44.6	138.7	-1.9		-24.1	17	1031	20 18 50
20 21 50	---	08 18 31	44.9	139.7	-1.9		-23.6	180	1054	20 18 51
20 22 20	J1007+1356	08 19 01	45.1	140.6	-1.8		-23.1	17	1054	20 22 20
20 23 40	=1004+141	08 20 21	45.2	141.0	-1.8		-22.9	80	1064	20 22 21
20 24 10	1007+142	08 20 51	45.2	140.4	-1.8		-23.2	17	1064	20 24 10
20 27 10	---	08 23 51	45.4	141.4	-1.8		-22.7	180	1087	20 24 11
20 27 40	J1007+1356	08 24 22	45.6	142.3	-1.7		-22.2	17	1087	20 27 40
20 29 00	=1004+141	08 25 42	45.7	142.7	-1.7		-22.0	80	1098	20 27 41
20 29 30	1007+142	08 26 12	45.7	142.1	-1.7		-22.3	17	1098	20 29 30
20 32 30	---	08 29 12	45.9	143.1	-1.7		-21.8	180	1121	20 29 31
20 33 00	J1007+1356	08 29 42	46.1	144.0	-1.7		-21.3	17	1121	20 33 00
20 34 20	=1004+141	08 31 03	46.2	144.5	-1.6		-21.1	80	1131	20 33 01
20 34 50	1007+142	08 31 33	46.1	143.9	-1.7		-21.4	17	1131	20 34 50
20 37 50	---	08 34 33	46.4	144.8	-1.6		-20.9	180	1154	20 34 51
20 38 20	J1007+1356	08 35 03	46.6	145.8	-1.6		-20.3	17	1154	20 38 20
20 39 40	=1004+141	08 36 24	46.7	146.2	-1.5		-20.1	80	1165	20 38 21
20 40 10	1007+142	08 36 54	46.6	145.6	-1.6		-20.4	17	1165	20 40 10
20 43 10	---	08 39 54	46.9	146.6	-1.5		-19.9	180	1188	20 40 11
20 43 40	J1007+1356	08 40 24	47.0	147.6	-1.5		-19.4	17	1188	20 43 40
20 45 00	=1004+141	08 41 44	47.1	148.0	-1.5		-19.1	80	1198	20 43 41
20 45 30	1007+142	08 42 15	47.1	147.4	-1.5		-19.5	17	1198	20 45 30
20 48 30	---	08 45 15	47.3	148.4	-1.4		-18.9	180	1221	20 45 31
20 49 00	J1007+1356	08 45 45	47.4	149.4	-1.4		-18.4	17	1221	20 49 00
20 50 20	=1004+141	08 47 05	47.5	149.8	-1.4		-18.1	80	1232	20 49 01
20 50 50	1007+142	08 47 35	47.5	149.2	-1.4		-18.5	17	1232	20 50 50
20 53 50	---	08 50 36	47.7	150.2	-1.3		-17.9	180	1255	20 50 51

Schedule for TORUN (Code Tr)

Page 7

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
20 54 20	J1007+1356	08 51 06	47.8	151.2	-1.3		-17.3	17	1255	20 54 20
20 55 40	=1004+141	08 52 26	47.9	151.7	-1.3		-17.1	80	1265	20 54 21
20 56 10	1007+142	08 52 56	47.9	151.0	-1.3		-17.4	17	1265	20 56 10
20 59 10	---	08 55 57	48.1	152.1	-1.3		-16.8	180	1288	20 56 11
20 59 40	J1007+1356	08 56 27	48.2	153.1	-1.2		-16.3	17	1288	20 59 40
21 01 00	=1004+141	08 57 47	48.3	153.5	-1.2		-16.0	80	1298	20 59 41
21 01 30	1007+142	08 58 17	48.2	152.9	-1.2		-16.4	17	1298	21 01 30
21 04 30	---	09 01 18	48.5	154.0	-1.2		-15.8	180	1322	21 01 31
21 05 00	J1007+1356	09 01 48	48.5	155.0	-1.1		-15.2	17	1322	21 05 00
21 06 20	=1004+141	09 03 08	48.6	155.4	-1.1		-14.9	80	1332	21 05 01
21 06 50	1007+142	09 03 38	48.6	154.8	-1.1		-15.3	17	1332	21 06 50
21 09 50	---	09 06 39	48.8	155.9	-1.1		-14.7	180	1355	21 06 51
21 10 20	J1007+1356	09 07 09	48.9	156.9	-1.0		-14.1	17	1355	21 10 20
21 11 40	=1004+141	09 08 29	48.9	157.3	-1.0		-13.8	80	1365	21 10 21
21 12 10	1007+142	09 08 59	48.9	156.7	-1.0		-14.2	17	1365	21 12 10
21 15 10	---	09 11 59	49.1	157.8	-1.0		-13.5	180	1389	21 12 11
21 15 40	J1007+1356	09 12 29	49.2	158.8	-0.9		-12.9	17	1389	21 15 40
21 17 00	=1004+141	09 13 50	49.2	159.3	-0.9		-12.6	80	1399	21 15 41
21 20 00	J0927+3902	09 16 50	75.7	170.8	-0.2		-7.1	67	1399	21 20 00
21 24 00	=4C39.25	09 20 51	75.8	174.0	-0.1		-4.7	240	1430	21 20 01
21 27 00	J1007+1356	09 23 51	49.7	162.9	-0.8		-10.5	68	1430	21 27 00
21 28 20	=1004+141	09 25 12	49.8	163.4	-0.7		-10.2	80	1440	21 27 01
21 28 50	1007+142	09 25 42	49.8	162.8	-0.8		-10.6	17	1440	21 28 50
21 31 50	---	09 28 42	49.9	163.9	-0.7		-9.9	180	1463	21 28 51
21 32 20	J1007+1356	09 29 12	50.0	164.9	-0.7		-9.3	16	1463	21 32 20
21 33 40	=1004+141	09 30 32	50.0	165.4	-0.6		-9.0	80	1474	21 32 21
21 34 10	1007+142	09 31 03	50.0	164.8	-0.7		-9.4	17	1474	21 34 10
21 37 10	---	09 34 03	50.1	165.9	-0.6		-8.7	180	1497	21 34 11
21 37 40	J1007+1356	09 34 33	50.1	166.9	-0.6		-8.0	16	1497	21 37 40
21 39 00	=1004+141	09 35 53	50.2	167.4	-0.6		-7.7	80	1507	21 37 41

Schedule for TORUN (Code Tr)

Page 8

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
21 39 30	1007+142	09 36 23	50.2	166.8	-0.6		-8.1	17	1507	21 39 30
21 42 30	---	09 39 24	50.3	167.9	-0.5		-7.5	180	1530	21 39 31
21 43 00	J1007+1356	09 39 54	50.3	168.9	-0.5		-6.8	16	1530	21 43 00
21 44 20	=1004+141	09 41 14	50.4	169.4	-0.5		-6.5	80	1541	21 43 01
21 44 50	1007+142	09 41 44	50.4	168.8	-0.5		-6.9	17	1541	21 44 50
21 47 50	---	09 44 45	50.5	169.9	-0.4		-6.2	180	1564	21 44 51
21 48 20	J1007+1356	09 45 15	50.5	171.0	-0.4		-5.6	16	1564	21 48 20
21 49 40	=1004+141	09 46 35	50.5	171.5	-0.4		-5.3	80	1574	21 48 21
21 50 10	1007+142	09 47 05	50.5	170.8	-0.4		-5.7	17	1574	21 50 10
21 53 10	---	09 50 06	50.6	171.9	-0.4		-5.0	180	1597	21 50 11
21 53 40	J1007+1356	09 50 36	50.6	173.0	-0.3		-4.3	16	1597	21 53 40
21 55 00	=1004+141	09 51 56	50.6	173.5	-0.3		-4.0	80	1608	21 53 41
21 55 30	1007+142	09 52 26	50.7	172.8	-0.3		-4.4	17	1608	21 55 30
21 58 30	---	09 55 27	50.7	174.0	-0.3		-3.7	180	1631	21 55 31
21 59 00	J1007+1356	09 55 57	50.7	175.0	-0.2		-3.1	16	1631	21 59 00
22 00 20	=1004+141	09 57 17	50.7	175.5	-0.2		-2.8	80	1641	21 59 01
22 00 50	1007+142	09 57 47	50.7	174.9	-0.2		-3.2	17	1641	22 00 50
22 03 50	---	10 00 47	50.8	176.0	-0.2		-2.5	180	1664	22 00 51
22 04 20	J1007+1356	10 01 17	50.7	177.1	-0.1		-1.8	16	1664	22 04 20
22 05 40	=1004+141	10 02 38	50.7	177.6	-0.1		-1.5	80	1675	22 04 21
22 06 10	1007+142	10 03 08	50.8	176.9	-0.1		-1.9	17	1675	22 06 10
22 09 10	---	10 06 08	50.8	178.1	-0.1		-1.2	180	1698	22 06 11
22 09 40	J1007+1356	10 06 38	50.7	179.1	-0.0		-0.5	16	1698	22 09 40
22 11 00	=1004+141	10 07 59	50.7	179.6	-0.0		-0.2	80	1708	22 09 41
22 11 30	1007+142	10 08 29	50.8	179.0	-0.0		-0.6	17	1708	22 11 30
22 14 30	---	10 11 29	50.8	180.1	0.0		0.1	180	1731	22 11 31
22 15 00	J1007+1356	10 11 59	50.7	181.2	0.1		0.7	16	1731	22 15 00
22 16 20	=1004+141	10 13 19	50.7	181.7	0.1		1.1	80	1742	22 15 01
22 16 50	1007+142	10 13 50	50.8	181.0	0.0		0.6	17	1742	22 16 50
22 19 50	---	10 16 50	50.8	182.2	0.1		1.4	180	1765	22 16 51

Schedule for TORUN (Code Tr)

Page 9

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
22 20 20	J1007+1356	10 17 20	50.7	183.2	0.1		2.0	16	1765	22 20 20
22 21 40	=1004+141	10 18 40	50.7	183.7	0.2		2.3	80	1775	22 20 21
22 22 10	1007+142	10 19 10	50.8	183.1	0.1		1.9	17	1775	22 22 10
22 25 10	---	10 22 11	50.8	184.2	0.2		2.6	180	1798	22 22 11
22 25 40	J1007+1356	10 22 41	50.6	185.3	0.2		3.3	16	1798	22 25 40
22 27 00	=1004+141	10 24 01	50.6	185.8	0.3		3.6	80	1809	22 25 41
22 27 30	1007+142	10 24 31	50.7	185.1	0.2		3.2	17	1809	22 27 30
22 30 30	---	10 27 32	50.7	186.3	0.3		3.9	180	1832	22 27 31
22 31 00	J1007+1356	10 28 02	50.6	187.3	0.3		4.5	17	1832	22 31 00
22 32 20	=1004+141	10 29 22	50.5	187.8	0.3		4.8	80	1842	22 31 01
22 32 50	1007+142	10 29 52	50.7	187.2	0.3		4.4	17	1842	22 32 50
22 35 50	---	10 32 53	50.6	188.3	0.4		5.1	180	1865	22 32 51
22 36 20	J1007+1356	10 33 23	50.4	189.4	0.4		5.8	17	1865	22 36 20
22 37 40	=1004+141	10 34 43	50.4	189.9	0.4		6.1	80	1876	22 36 21
22 38 10	1007+142	10 35 13	50.5	189.2	0.4		5.7	17	1876	22 38 10
22 41 10	---	10 38 14	50.5	190.4	0.5		6.4	180	1899	22 38 11
22 41 40	J1007+1356	10 38 44	50.3	191.4	0.5		7.0	17	1899	22 41 40
22 43 00	=1004+141	10 40 04	50.3	191.9	0.5		7.3	80	1909	22 41 41
22 43 30	1007+142	10 40 34	50.4	191.2	0.5		6.9	17	1909	22 43 30
22 46 30	---	10 43 34	50.3	192.4	0.5		7.6	180	1932	22 43 31
22 47 00	J1007+1356	10 44 04	50.1	193.4	0.6		8.2	17	1932	22 47 00
22 48 20	=1004+141	10 45 25	50.1	193.9	0.6		8.5	80	1943	22 47 01
22 48 50	1007+142	10 45 55	50.2	193.3	0.6		8.2	17	1943	22 48 50
22 51 50	---	10 48 55	50.1	194.4	0.6		8.8	180	1966	22 48 51
22 52 20	J1007+1356	10 49 25	49.9	195.4	0.7		9.4	17	1966	22 52 20
22 53 40	=1004+141	10 50 46	49.9	195.9	0.7		9.7	80	1976	22 52 21
22 54 10	1007+142	10 51 16	50.0	195.3	0.7		9.4	17	1976	22 54 10
22 57 10	---	10 54 16	49.9	196.4	0.7		10.0	180	1999	22 54 11
22 57 40	J1007+1356	10 54 46	49.7	197.4	0.8		10.6	17	1999	22 57 40
22 59 00	=1004+141	10 56 06	49.6	197.9	0.8		10.9	80	2010	22 57 41

Schedule for TORUN (Code Tr)

Page 10

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Wed	2 Mar 2022	Day	61	---					
22 59 30	1007+142	10 56 37	49.8	197.2	0.8		10.6	17	2010	22 59 30
23 02 30	---	10 59 37	49.7	198.4	0.8		11.2	180	2033	22 59 31
23 03 00	J1007+1356	11 00 07	49.4	199.3	0.9		11.8	17	2033	23 03 00
23 04 20	=1004+141	11 01 27	49.4	199.8	0.9		12.1	80	2043	23 03 01
23 04 50	1007+142	11 01 57	49.5	199.2	0.8		11.7	17	2043	23 04 50
23 07 50	---	11 04 58	49.4	200.3	0.9		12.4	180	2066	23 04 51
23 08 20	J1007+1356	11 05 28	49.2	201.3	0.9		13.0	17	2066	23 08 20
23 09 40	=1004+141	11 06 48	49.1	201.8	1.0		13.3	80	2077	23 08 21
23 10 10	1007+142	11 07 18	49.3	201.2	0.9		12.9	17	2077	23 10 10
23 13 10	---	11 10 19	49.1	202.2	1.0		13.5	180	2100	23 10 11
23 13 40	J1007+1356	11 10 49	48.9	203.2	1.0		14.1	17	2100	23 13 40
23 15 00	=1004+141	11 12 09	48.8	203.7	1.1		14.4	80	2110	23 13 41
23 15 30	1007+142	11 12 39	49.0	203.1	1.0		14.0	17	2110	23 15 30
23 18 30	---	11 15 40	48.8	204.2	1.1		14.7	180	2133	23 15 31
23 19 00	J1007+1356	11 16 10	48.5	205.1	1.1		15.2	17	2133	23 19 00
23 20 20	=1004+141	11 17 30	48.4	205.6	1.1		15.5	80	2144	23 19 01
23 20 50	1007+142	11 18 00	48.6	205.0	1.1		15.2	17	2144	23 20 50
23 23 50	---	11 21 01	48.4	206.1	1.2		15.8	180	2167	23 20 51
23 24 20	J1007+1356	11 21 31	48.2	207.0	1.2		16.3	17	2167	23 24 20
23 25 40	=1004+141	11 22 51	48.1	207.4	1.2		16.6	80	2177	23 24 21
23 26 10	1007+142	11 23 21	48.3	206.9	1.2		16.2	18	2177	23 26 10
23 29 10	---	11 26 21	48.1	207.9	1.3		16.8	180	2200	23 26 11
23 29 40	J1007+1356	11 26 51	47.8	208.8	1.3		17.4	17	2200	23 29 40
23 31 00	=1004+141	11 28 12	47.7	209.3	1.3		17.6	80	2211	23 29 41
23 31 30	1007+142	11 28 42	47.9	208.7	1.3		17.3	18	2211	23 31 30
23 34 30	---	11 31 42	47.7	209.8	1.3		17.9	180	2234	23 31 31
23 35 00	J1007+1356	11 32 12	47.4	210.7	1.4		18.4	17	2234	23 35 00
23 36 20	=1004+141	11 33 33	47.3	211.1	1.4		18.6	80	2244	23 35 01
23 36 50	1007+142	11 34 03	47.5	210.6	1.4		18.3	18	2244	23 36 50
23 39 50	---	11 37 03	47.3	211.6	1.4		18.9	180	2267	23 36 51

Schedule for TORUN (Code Tr)

Page 11

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Wed 2 Mar 2022 Day 61 ---										
23 40 20	J1007+1356	11 37 33	47.0	212.5	1.5		19.4	17	2267	23 40 20
23 41 40	=1004+141	11 38 53	46.9	212.9	1.5		19.6	80	2278	23 40 21
23 42 10	1007+142	11 39 24	47.1	212.4	1.5		19.4	18	2278	23 42 10
23 45 10	---	11 42 24	46.9	213.4	1.5		19.9	180	2301	23 42 11
23 45 40	J1007+1356	11 42 54	46.5	214.3	1.6		20.4	17	2301	23 45 40
23 47 00	=1004+141	11 44 14	46.4	214.7	1.6		20.6	80	2311	23 45 41
23 47 30	1007+142	11 44 44	46.7	214.2	1.6		20.3	18	2311	23 47 30
23 50 30	---	11 47 45	46.4	215.2	1.6		20.9	180	2334	23 47 31
23 51 00	J1007+1356	11 48 15	46.1	216.0	1.7		21.3	17	2334	23 51 00
23 52 20	=1004+141	11 49 35	46.0	216.5	1.7		21.6	80	2345	23 51 01
23 52 50	1007+142	11 50 05	46.2	215.9	1.6		21.3	18	2345	23 52 50
23 55 50	---	11 53 06	45.9	216.9	1.7		21.8	180	2368	23 52 51
23 56 20	J1007+1356	11 53 36	45.6	217.7	1.7		22.2	17	2368	23 56 20
23 57 40	=1004+141	11 54 56	45.5	218.2	1.8		22.5	80	2378	23 56 21
--- Start: Wed 2 Mar 2022 Day 61 -- Stop: Thu 3 Mar 2022 Day 62 ---										
23 58 10	1007+142	11 55 26	45.7	217.7	1.7		22.2	18	2378	23 58 10
00 01 10	---	11 58 27	45.4	218.6	1.8		22.7	180	2401	23 58 11
00 01 40	J1007+1356	11 58 57	45.1	219.5	1.8		23.1	18	2401	00 01 40
00 03 00	=1004+141	12 00 17	45.0	219.9	1.9		23.4	80	2411	00 01 41
00 03 30	1007+142	12 00 47	45.2	219.4	1.8		23.1	18	2411	00 03 30
00 06 30	---	12 03 48	44.9	220.3	1.9		23.6	180	2435	00 03 31
00 07 00	J1007+1356	12 04 18	44.6	221.1	1.9		24.0	18	2435	00 07 00
00 08 20	=1004+141	12 05 38	44.4	221.5	1.9		24.2	80	2445	00 07 01
00 08 50	1007+142	12 06 08	44.7	221.1	1.9		24.0	18	2445	00 08 50
00 11 50	---	12 09 08	44.4	222.0	2.0		24.5	180	2468	00 08 51
00 12 20	J1007+1356	12 09 38	44.0	222.8	2.0		24.8	18	2468	00 12 20
00 13 40	=1004+141	12 10 59	43.9	223.2	2.0		25.0	80	2478	00 12 21
00 14 10	1007+142	12 11 29	44.2	222.7	2.0		24.8	18	2478	00 14 10
00 17 10	---	12 14 29	43.9	223.6	2.1		25.3	180	2502	00 14 11

Schedule for TORUN (Code Tr)

Page 12

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
00 17 40	J1007+1356	12 14 59	43.5	224.4	2.1		25.6	18	2502	00 17 40
00 19 00	=1004+141	12 16 20	43.3	224.8	2.1		25.8	80	2512	00 17 41
00 19 30	1007+142	12 16 50	43.6	224.3	2.1		25.6	18	2512	00 19 30
00 22 30	---	12 19 50	43.3	225.2	2.1		26.1	180	2535	00 19 31
00 23 00	J1007+1356	12 20 20	42.9	226.0	2.2		26.4	18	2535	00 23 00
00 24 20	=1004+141	12 21 40	42.8	226.4	2.2		26.6	80	2545	00 23 01
00 24 50	1007+142	12 22 11	43.0	225.9	2.2		26.4	18	2545	00 24 50
00 27 50	---	12 25 11	42.7	226.8	2.2		26.8	180	2569	00 24 51
00 28 20	J1007+1356	12 25 41	42.3	227.6	2.3		27.2	18	2569	00 28 20
00 29 40	=1004+141	12 27 01	42.2	228.0	2.3		27.3	80	2579	00 28 21
00 30 10	1007+142	12 27 31	42.5	227.5	2.3		27.1	18	2579	00 30 10
00 33 10	---	12 30 32	42.1	228.4	2.3		27.6	180	2602	00 30 11
00 33 40	J1007+1356	12 31 02	41.7	229.1	2.4		27.9	18	2602	00 33 40
00 35 00	=1004+141	12 32 22	41.6	229.5	2.4		28.1	80	2612	00 33 41
00 35 30	1007+142	12 32 52	41.9	229.1	2.4		27.9	18	2612	00 35 30
00 38 30	---	12 35 53	41.5	229.9	2.4		28.3	180	2636	00 35 31
00 39 00	J1007+1356	12 36 23	41.1	230.7	2.5		28.6	18	2636	00 39 00
00 40 20	=1004+141	12 37 43	41.0	231.0	2.5		28.7	80	2646	00 39 01
00 40 50	1007+142	12 38 13	41.2	230.6	2.5		28.6	18	2646	00 40 50
00 43 50	---	12 41 14	40.9	231.5	2.5		28.9	180	2669	00 40 51
00 44 20	J1007+1356	12 41 44	40.5	232.2	2.5		29.2	18	2669	00 44 20
00 45 40	=1004+141	12 43 04	40.3	232.5	2.6		29.4	80	2679	00 44 21
00 46 10	1007+142	12 43 34	40.6	232.1	2.5		29.2	18	2679	00 46 10
00 49 10	---	12 46 35	40.3	232.9	2.6		29.6	180	2703	00 46 11
00 49 40	J1007+1356	12 47 05	39.9	233.6	2.6		29.9	18	2703	00 49 40
00 51 00	=1004+141	12 48 25	39.7	234.0	2.7		30.0	80	2713	00 49 41
00 51 30	1007+142	12 48 55	40.0	233.6	2.6		29.9	18	2713	00 51 30
00 54 30	---	12 51 55	39.6	234.4	2.7		30.2	180	2736	00 51 31
00 55 00	J1007+1356	12 52 25	39.2	235.1	2.7		30.5	18	2736	00 55 00
00 56 20	=1004+141	12 53 46	39.0	235.5	2.7		30.6	80	2746	00 55 01

Schedule for TORUN (Code Tr)

Page 13

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
00 56 50	1007+142	12 54 16	39.3	235.0	2.7		30.5	18	2746	00 56 50
00 59 50	---	12 57 16	39.0	235.9	2.8		30.8	180	2770	00 56 51
01 00 20	J1007+1356	12 57 46	38.5	236.5	2.8		31.1	18	2770	01 00 20
01 01 40	=1004+141	12 59 07	38.4	236.9	2.8		31.2	80	2780	01 00 21
01 02 10	1007+142	12 59 37	38.7	236.5	2.8		31.0	18	2780	01 02 10
01 05 10	---	13 02 37	38.3	237.3	2.9		31.4	180	2803	01 02 11
01 05 40	J1007+1356	13 03 07	37.9	237.9	2.9		31.6	18	2803	01 05 40
01 07 00	=1004+141	13 04 27	37.7	238.3	2.9		31.7	80	2813	01 05 41
01 09 00	J0927+3902	13 06 28	50.7	271.5	3.6		50.5	39	2813	01 09 00
01 13 00	=4C39.25	13 10 28	50.1	272.3	3.7		50.5	240	2844	01 09 01
01 16 00	J1007+1356	13 13 29	36.5	240.6	3.1		32.6	101	2844	01 16 00
01 17 20	=1004+141	13 14 49	36.3	241.0	3.1		32.7	80	2855	01 16 01
01 17 50	1007+142	13 15 19	36.6	240.6	3.1		32.6	18	2855	01 17 50
01 20 50	---	13 18 20	36.3	241.3	3.1		32.9	180	2878	01 17 51
01 21 20	J1007+1356	13 18 50	35.8	242.0	3.2		33.1	18	2878	01 21 20
01 22 40	=1004+141	13 20 10	35.6	242.3	3.2		33.2	80	2888	01 21 21
01 23 10	1007+142	13 20 40	35.9	241.9	3.2		33.1	18	2888	01 23 10
01 26 10	---	13 23 41	35.5	242.7	3.2		33.3	180	2911	01 23 11
01 26 40	J1007+1356	13 24 11	35.1	243.3	3.3		33.5	18	2911	01 26 40
01 28 00	=1004+141	13 25 31	34.9	243.6	3.3		33.6	80	2922	01 26 41
01 28 30	1007+142	13 26 01	35.2	243.3	3.2		33.5	18	2922	01 28 30
01 31 30	---	13 29 01	34.8	244.0	3.3		33.8	180	2945	01 28 31
01 32 00	J1007+1356	13 29 32	34.4	244.6	3.3		34.0	18	2945	01 32 00
01 33 20	=1004+141	13 30 52	34.2	244.9	3.4		34.1	80	2955	01 32 01
01 33 50	1007+142	13 31 22	34.5	244.6	3.3		34.0	18	2955	01 33 50
01 36 50	---	13 34 22	34.1	245.3	3.4		34.2	180	2978	01 33 51
01 37 20	J1007+1356	13 34 52	33.7	245.9	3.4		34.4	18	2978	01 37 20
01 38 40	=1004+141	13 36 13	33.5	246.2	3.5		34.5	80	2989	01 37 21
01 39 10	1007+142	13 36 43	33.8	245.9	3.4		34.4	18	2989	01 39 10
01 42 10	---	13 39 43	33.4	246.6	3.5		34.6	180	3012	01 39 11

Schedule for TORUN (Code Tr)

Page 14

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop		Early	Disk	TPStart				
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
01 42 40	J1007+1356	13 40 13	32.9	247.2	3.5		34.8	18	3012	01 42 40
01 44 00	=1004+141	13 41 34	32.7	247.5	3.5		34.8	80	3022	01 42 41
01 44 30	1007+142	13 42 04	33.0	247.2	3.5		34.8	18	3022	01 44 30
01 47 30	---	13 45 04	32.6	247.9	3.6		35.0	180	3045	01 44 31
01 48 00	J1007+1356	13 45 34	32.2	248.4	3.6		35.1	18	3045	01 48 00
01 49 20	=1004+141	13 46 54	32.0	248.8	3.6		35.2	80	3056	01 48 01
01 49 50	1007+142	13 47 25	32.3	248.4	3.6		35.1	18	3056	01 49 50
01 52 50	---	13 50 25	31.9	249.1	3.7		35.3	180	3079	01 49 51
01 53 20	J1007+1356	13 50 55	31.4	249.7	3.7		35.4	18	3079	01 53 20
01 54 40	=1004+141	13 52 15	31.2	250.0	3.7		35.5	80	3089	01 53 21
01 55 10	1007+142	13 52 45	31.6	249.7	3.7		35.5	18	3089	01 55 10
01 58 10	---	13 55 46	31.1	250.4	3.7		35.6	180	3112	01 55 11
01 58 40	J1007+1356	13 56 16	30.7	250.9	3.8		35.8	18	3112	01 58 40
02 00 00	=1004+141	13 57 36	30.5	251.2	3.8		35.8	80	3123	01 58 41
02 00 30	1007+142	13 58 06	30.8	250.9	3.8		35.8	18	3123	02 00 30
02 03 30	---	14 01 07	30.4	251.6	3.8		35.9	180	3146	02 00 31
02 04 00	J1007+1356	14 01 37	29.9	252.1	3.9		36.1	18	3146	02 04 00
02 05 20	=1004+141	14 02 57	29.7	252.4	3.9		36.1	80	3156	02 04 01
02 05 50	1007+142	14 03 27	30.0	252.1	3.9		36.1	18	3156	02 05 50
02 08 50	---	14 06 28	29.6	252.8	3.9		36.2	180	3179	02 05 51
02 09 20	J1007+1356	14 06 58	29.1	253.3	4.0		36.3	18	3179	02 09 20
02 10 40	=1004+141	14 08 18	28.9	253.6	4.0		36.4	80	3190	02 09 21
02 11 10	1007+142	14 08 48	29.3	253.3	4.0		36.3	18	3190	02 11 10
02 14 10	---	14 11 49	28.8	254.0	4.0		36.5	180	3213	02 11 11
02 14 40	J1007+1356	14 12 19	28.4	254.5	4.1		36.6	18	3213	02 14 40
02 16 00	=1004+141	14 13 39	28.2	254.8	4.1		36.6	80	3223	02 14 41
02 16 30	1007+142	14 14 09	28.5	254.5	4.1		36.6	18	3223	02 16 30
02 19 30	---	14 17 09	28.1	255.2	4.1		36.7	180	3246	02 16 31
02 20 00	J1007+1356	14 17 39	27.6	255.7	4.1		36.8	18	3246	02 20 00
02 21 20	=1004+141	14 19 00	27.4	256.0	4.2		36.9	80	3257	02 20 01

Schedule for TORUN (Code Tr)

Page 15

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
02 21 50	1007+142	14 19 30	27.7	255.7	4.1		36.8	18	3257	02 21 50
02 24 50	---	14 22 30	27.3	256.3	4.2		37.0	180	3280	02 21 51
02 25 20	J1007+1356	14 23 00	26.8	256.9	4.2		37.0	18	3280	02 25 20
02 26 40	=1004+141	14 24 21	26.6	257.2	4.3		37.1	80	3290	02 25 21
02 27 10	1007+142	14 24 51	26.9	256.9	4.2		37.0	18	3290	02 27 10
02 30 10	---	14 27 51	26.5	257.5	4.3		37.2	180	3313	02 27 11
02 30 40	J1007+1356	14 28 21	26.0	258.0	4.3		37.2	18	3313	02 30 40
02 32 00	=1004+141	14 29 41	25.8	258.3	4.3		37.3	80	3324	02 30 41
02 32 30	1007+142	14 30 12	26.2	258.0	4.3		37.2	18	3324	02 32 30
02 35 30	---	14 33 12	25.7	258.7	4.4		37.3	180	3347	02 32 31
02 36 00	J1007+1356	14 33 42	25.2	259.2	4.4		37.4	18	3347	02 36 00
02 37 20	=1004+141	14 35 02	25.0	259.5	4.4		37.4	80	3357	02 36 01
02 37 50	1007+142	14 35 32	25.4	259.2	4.4		37.4	18	3357	02 37 50
02 40 50	---	14 38 33	24.9	259.8	4.5		37.5	180	3380	02 37 51
02 41 20	J1007+1356	14 39 03	24.5	260.3	4.5		37.6	18	3380	02 41 20
02 42 40	=1004+141	14 40 23	24.3	260.6	4.5		37.6	80	3391	02 41 21
02 43 10	1007+142	14 40 53	24.6	260.3	4.5		37.6	18	3391	02 43 10
02 46 10	---	14 43 54	24.1	260.9	4.5		37.7	180	3414	02 43 11
02 46 40	J1007+1356	14 44 24	23.7	261.4	4.6		37.7	17	3414	02 46 40
02 48 00	=1004+141	14 45 44	23.5	261.7	4.6		37.7	80	3424	02 46 41
02 48 30	1007+142	14 46 14	23.8	261.4	4.6		37.7	18	3424	02 48 30
02 51 30	---	14 49 15	23.3	262.1	4.6		37.8	180	3447	02 48 31
02 52 00	J1007+1356	14 49 45	22.9	262.6	4.7		37.8	17	3447	02 52 00
02 53 20	=1004+141	14 51 05	22.7	262.8	4.7		37.8	80	3458	02 52 01
02 53 50	1007+142	14 51 35	23.0	262.5	4.7		37.8	18	3458	02 53 50
02 56 50	---	14 54 36	22.5	263.2	4.7		37.9	180	3481	02 53 51
02 57 20	J1007+1356	14 55 06	22.1	263.7	4.8		37.9	17	3481	02 57 20
02 58 40	=1004+141	14 56 26	21.9	263.9	4.8		37.9	80	3491	02 57 21
02 59 10	1007+142	14 56 56	22.2	263.6	4.8		37.9	18	3491	02 59 10
03 02 10	---	14 59 56	21.7	264.3	4.8		38.0	180	3514	02 59 11

Schedule for TORUN (Code Tr)

Page 16

Gamma-ray young radio source

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
03 02 40	J1007+1356	15 00 26	21.3	264.8	4.9		38.0	17	3514	03 02 40
03 04 00	=1004+141	15 01 47	21.1	265.0	4.9		38.0	80	3524	03 02 41
03 04 30	1007+142	15 02 17	21.4	264.8	4.9		38.0	18	3524	03 04 30
03 07 30	---	15 05 17	20.9	265.4	4.9		38.1	180	3548	03 04 31
03 08 00	J1007+1356	15 05 47	20.5	265.9	4.9		38.1	17	3548	03 08 00
03 09 20	=1004+141	15 07 08	20.3	266.1	5.0		38.1	80	3558	03 08 01
03 09 50	1007+142	15 07 38	20.6	265.8	4.9		38.1	18	3558	03 09 50
03 12 50	---	15 10 38	20.1	266.5	5.0		38.1	180	3581	03 09 51
03 13 20	J1007+1356	15 11 08	19.7	267.0	5.0		38.1	17	3581	03 13 20
03 14 40	=1004+141	15 12 28	19.5	267.2	5.1		38.1	80	3591	03 13 21
03 15 10	1007+142	15 12 59	19.8	266.9	5.0		38.2	18	3591	03 15 10
03 18 10	---	15 15 59	19.3	267.5	5.1		38.2	180	3615	03 15 11
03 18 40	J1007+1356	15 16 29	18.9	268.0	5.1		38.2	17	3615	03 18 40
03 20 00	=1004+141	15 17 49	18.7	268.3	5.1		38.2	80	3625	03 18 41
03 20 30	1007+142	15 18 19	19.0	268.0	5.1		38.2	18	3625	03 20 30
03 23 30	---	15 21 20	18.5	268.6	5.2		38.2	180	3648	03 20 31
03 24 00	J1007+1356	15 21 50	18.1	269.1	5.2		38.2	17	3648	03 24 00
03 25 20	=1004+141	15 23 10	17.9	269.4	5.2		38.2	80	3658	03 24 01
03 25 50	1007+142	15 23 40	18.2	269.1	5.2		38.2	18	3658	03 25 50
03 28 30	---	15 26 21	17.8	269.6	5.3		38.2	160	3679	03 25 51
03 29 00	J1007+1356	15 26 51	17.3	270.1	5.3		38.2	17	3679	03 29 00
03 30 00	=1004+141	15 27 51	17.2	270.3	5.3		38.2	60	3687	03 29 01

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

Setup group: 12	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 8 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 8

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* 1007+142	10 07 13.890657	* 10 09 55.513711	10 11 07.618314	2.81
J1009+1401	14 16 40.23861	* 14 01 54.31831	13 55 20.01194	4.71
	rfc_2018a Petrov and Kovalev, in preparation 4 observations			
1004+141	10 04 59.783934	* 10 07 41.498088	10 08 53.639635	0.10
* J1007+1356	14 11 10.91501	* 13 56 29.60078	13 49 57.36687	0.10
	rfc_2018a Petrov and Kovalev, in preparation 4729 observations			
4C39.25	09 23 55.319216	* 09 27 03.013937	09 28 26.795923	0.31
* J0927+3902	39 15 23.56644	* 39 02 20.85185	38 56 36.26745	0.16
0923+392	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J0927+39	GSFC 2016a X/S astro solution, 250526 observations.			

A RE-OBSERVATION OF THE VLBA PRIMARY CALIBRATOR J1926+4441
 PI: *Wandia*

Schedule for TORUN (Code Tr) Page 2

A Re-observation of the VLBA Primary Calibrator J1926+4441

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

```
-----
```

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Thu 3 Mar 2022 Day 62 ---										
Next scan frequencies:		1416.40	1416.40	1417.40	1417.40					
Next BBC frequencies:		683.60	683.60	682.60	682.60					
Next scan bandwidths:		8.00	8.00	8.00	8.00					

04 10 00	3C345	16 07 58	75.3	151.8	-0.6		-21.6	0	0	04 10 00
04 15 00	---	16 12 58	75.7	155.4	-0.5		-18.9	300	5	04 10 01

04 18 20	J1923+4754	16 16 19	60.3	80.7	-3.1		-62.2	35	5	04 18 20
04 20 20	---	16 18 19	60.6	81.0	-3.1		-62.3	120	7	04 18 21

04 20 20	J1926+4441	16 18 19	58.5	86.0	-3.1		-57.5	-25	7	No stop
04 30 20	---	16 28 21	60.0	87.8	-3.0		-57.6	575	16	04 20 21

04 31 40	J1923+4754	16 29 41	62.3	82.9	-2.9		-62.8	55	16	04 31 40
04 33 40	---	16 31 41	62.6	83.2	-2.9		-62.9	120	18	04 31 41

04 33 40	J1926+4441	16 31 41	60.5	88.5	-2.9		-57.7	-26	18	No stop
04 43 40	---	16 41 43	62.0	90.5	-2.8		-57.7	574	28	04 33 41

04 49 10	J1936+2357	16 47 14	46.9	115.6	-2.8		-36.4	257	28	04 49 10
04 59 10	---	16 57 16	48.2	118.3	-2.7		-35.4	600	38	04 49 11

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.H128

```

Setup group: 11          Station: TORUN          Total bit rate: 128
Format: VDIF           Bits per sample: 2          Sample rate: 16.000
Number of channels: 4   DBE type: DBBC_DDC       Speedup factor: 1.00

```

Disk used to record data.

1st LO=	2100.00	2100.00	2100.00	2100.00
Net SB=	U	U	U	U
IF SB =	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	9	2	10
BBC SB=	L	L	L	L
IF =	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 9 Setup file default. Used with PCAL = off
 LO sum= 1416.40 1416.40 1417.40 1417.40
 BBC fr= 683.60 683.60 682.60 682.60
 Bandwd= 8.00 8.00 8.00 8.00
 Matching frequency sets: 9

Track assignments are:

track1= 1, 2, 3, 4
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
* J1926+4441	19 24 54.204043	* 19 26 26.569213	19 27 05.668834	0.00
	44 35 43.29872	* 44 41 49.23113	44 44 10.58919	0.00
* J1923+4754	19 22 02.494822	* 19 23 27.229799	19 24 02.914426	0.00
	47 48 22.82358	* 47 54 16.81811	47 56 32.40235	0.00
* J1936+2357	19 33 54.239329	* 19 36 00.924846	19 36 55.362971	0.00
	23 50 48.53450	* 23 57 31.97589	24 00 13.44041	0.00
* 3C345	16 41 17.606229	* 16 42 58.809967	16 43 43.229718	0.79
J1642+3948	39 54 10.81492	* 39 48 36.99399	39 45 49.21311	0.59
1641+399	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1642+39	GSFC 2016a X/S astro solution, 53724 observations.			

eh040atr

EH040A
PI: *Philippa Hartley*

Schedule for TORUN (Code Tr)

Page 2

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are LO sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Thu 3 Mar 2022 Day 62 ---										
Next scan frequencies: 1610.49 1610.49 1610.49 1610.49 1642.49 1642.49 1642.49 1642.49										
1674.49 1674.49 1674.49 1674.49 1706.49 1706.49 1706.49 1706.49										
Next BBC frequencies: 689.51 689.51 689.51 689.51 657.51 657.51 657.51 657.51										
625.51 625.51 625.51 625.51 593.51 593.51 593.51 593.51										
Next scan bandwidths: 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00										
16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00										

07 28 00	J2136+0041	19 26 30	31.0	140.8	-2.2		-22.3	0	0	07 28 00
07 33 00	=2134+00	19 31 31	31.5	142.1	-2.1		-21.6	300	39	07 28 01
12 42 30	HS0810+2554	00 41 52	7.6	56.7	-7.5		-33.8	18252	39	12 42 30
12 46 00	---	00 45 22	8.1	57.3	-7.5		-34.1	210	66	12 42 31
12 46 00	J0813+2435	00 45 22	7.1	57.9	-7.5		-34.0	-16	66	No stop
12 47 30	=0810+247	00 46 53	7.3	58.2	-7.5		-34.1	74	77	12 46 01
12 47 30	HS0810+2554	00 46 53	8.3	57.6	-7.5		-34.2	-17	77	No stop
12 51 00	---	00 50 23	8.7	58.3	-7.4		-34.5	193	104	12 47 31
12 51 30	J0813+2435	00 50 53	7.8	59.0	-7.4		-34.4	14	104	12 51 30
12 53 00	=0810+247	00 52 23	8.0	59.3	-7.4		-34.6	90	116	12 51 31
12 53 00	HS0810+2554	00 52 23	9.0	58.6	-7.4		-34.7	-17	116	No stop
12 56 30	---	00 55 54	9.4	59.3	-7.3		-35.0	193	143	12 53 01
12 56 30	J0813+2435	00 55 54	8.5	59.9	-7.3		-34.8	-16	143	No stop
12 58 00	=0810+247	00 57 24	8.6	60.2	-7.3		-34.9	74	155	12 56 31
12 58 00	HS0810+2554	00 57 24	9.6	59.6	-7.3		-35.1	-17	155	No stop
13 01 30	---	01 00 55	10.1	60.2	-7.2		-35.3	193	182	12 58 01
13 02 00	J0813+2435	01 01 25	9.2	61.0	-7.2		-35.2	14	182	13 02 00
13 03 30	=0810+247	01 02 55	9.4	61.2	-7.2		-35.4	90	193	13 02 01
13 03 30	HS0810+2554	01 02 55	10.3	60.6	-7.2		-35.5	-17	193	No stop
13 07 00	---	01 06 26	10.8	61.3	-7.1		-35.8	193	220	13 03 31
13 07 00	J0813+2435	01 06 26	9.8	61.9	-7.1		-35.6	-16	220	No stop
13 08 30	=0810+247	01 07 56	10.0	62.2	-7.1		-35.7	74	232	13 07 01
13 08 30	HS0810+2554	01 07 56	11.0	61.5	-7.1		-35.9	-17	232	No stop
13 12 00	---	01 11 27	11.5	62.2	-7.1		-36.1	193	259	13 08 31

Schedule for TORUN (Code Tr)

Page 3

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC
---	Thu 3 Mar 2022	Day	62	---						
13 12 30	J0813+2435	01 11 57	10.6	62.9	-7.1		-36.0	14	259	13 12 30
13 14 00	=0810+247	01 13 27	10.8	63.2	-7.0		-36.1	90	271	13 12 31
13 14 00	HS0810+2554	01 13 27	11.7	62.6	-7.0		-36.3	-16	271	No stop
13 17 30	---	01 16 57	12.2	63.2	-7.0		-36.5	194	298	13 14 01
13 17 30	J0813+2435	01 16 57	11.2	63.9	-7.0		-36.3	-16	298	No stop
13 19 00	=0810+247	01 18 28	11.4	64.2	-6.9		-36.4	74	309	13 17 31
13 19 00	HS0810+2554	01 18 28	12.4	63.5	-6.9		-36.6	-16	309	No stop
13 22 30	---	01 21 58	12.9	64.1	-6.9		-36.8	194	336	13 19 01
13 23 00	J0813+2435	01 22 28	12.0	64.9	-6.9		-36.7	14	336	13 23 00
13 24 30	=0810+247	01 23 59	12.2	65.2	-6.9		-36.8	90	348	13 23 01
13 24 30	HS0810+2554	01 23 59	13.1	64.5	-6.8		-37.0	-16	348	No stop
13 28 00	---	01 27 29	13.6	65.2	-6.8		-37.2	194	375	13 24 31
13 28 00	J0813+2435	01 27 29	12.7	65.8	-6.8		-37.0	-16	375	No stop
13 29 30	=0810+247	01 28 59	12.9	66.1	-6.8		-37.1	74	386	13 28 01
13 29 30	HS0810+2554	01 28 59	13.8	65.4	-6.8		-37.3	-16	386	No stop
13 33 00	---	01 32 30	14.3	66.1	-6.7		-37.5	194	414	13 29 31
13 33 30	J0813+2435	01 33 00	13.4	66.9	-6.7		-37.4	14	414	13 33 30
13 35 00	=0810+247	01 34 30	13.6	67.1	-6.7		-37.5	90	425	13 33 31
13 35 00	HS0810+2554	01 34 30	14.6	66.5	-6.7		-37.7	-16	425	No stop
13 38 30	---	01 38 01	15.1	67.1	-6.6		-37.9	194	452	13 35 01
13 38 30	J0813+2435	01 38 01	14.1	67.8	-6.6		-37.7	-16	452	No stop
13 40 00	=0810+247	01 39 31	14.3	68.1	-6.6		-37.8	74	464	13 38 31
13 40 00	HS0810+2554	01 39 31	15.3	67.4	-6.6		-38.0	-16	464	No stop
13 43 30	---	01 43 02	15.8	68.0	-6.5		-38.2	194	491	13 40 01
13 44 00	J0813+2435	01 43 32	14.9	68.8	-6.5		-38.0	14	491	13 44 00
13 45 30	=0810+247	01 45 02	15.1	69.1	-6.5		-38.1	90	502	13 44 01
13 45 30	HS0810+2554	01 45 02	16.0	68.4	-6.5		-38.3	-16	502	No stop
13 49 00	---	01 48 33	16.5	69.0	-6.4		-38.5	194	529	13 45 31
13 49 00	J0813+2435	01 48 33	15.6	69.7	-6.4		-38.3	-16	529	No stop
13 50 30	=0810+247	01 50 03	15.8	70.0	-6.4		-38.3	74	541	13 49 01
13 50 30	HS0810+2554	01 50 03	16.7	69.3	-6.4		-38.6	-16	541	No stop
13 54 00	---	01 53 33	17.2	70.0	-6.4		-38.8	194	568	13 50 31

EHO40A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
 Early: Seconds between end of slew and start. Dwell: On source seconds.
 Disk: GBytes recorded to this point.
 TPStart: Recording start time. Frequencies are L0 sum (band edge).
 SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
13 54 30	J0813+2435	01 54 04	16.4	70.8	-6.4		-38.6	14	568	13 54 30
13 56 00	=0810+247	01 55 34	16.6	71.0	-6.3		-38.6	90	580	13 54 31
13 56 00	HS0810+2554	01 55 34	17.5	70.3	-6.3		-38.9	-16	580	No stop
13 59 30	---	01 59 04	18.0	71.0	-6.3		-39.0	194	607	13 56 01
13 59 30	J0813+2435	01 59 04	17.1	71.7	-6.3		-38.8	-16	607	No stop
14 01 00	=0810+247	02 00 35	17.3	72.0	-6.2		-38.9	74	618	13 59 31
14 01 00	HS0810+2554	02 00 35	18.2	71.3	-6.2		-39.1	-16	618	No stop
14 04 30	---	02 04 05	18.7	71.9	-6.2		-39.3	194	645	14 01 01
14 05 00	J0813+2435	02 04 35	17.9	72.7	-6.2		-39.1	14	645	14 05 00
14 06 30	=0810+247	02 06 06	18.1	73.0	-6.2		-39.1	90	657	14 05 01
14 06 30	HS0810+2554	02 06 06	19.0	72.3	-6.1		-39.4	-16	657	No stop
14 10 00	---	02 09 36	19.5	72.9	-6.1		-39.6	194	684	14 06 31
14 10 00	J0813+2435	02 09 36	18.6	73.6	-6.1		-39.3	-16	684	No stop
14 11 30	=0810+247	02 11 06	18.8	73.9	-6.1		-39.4	74	696	14 10 01
14 11 30	HS0810+2554	02 11 06	19.7	73.2	-6.1		-39.6	-16	696	No stop
14 15 00	---	02 14 37	20.2	73.8	-6.0		-39.8	194	723	14 11 31
14 15 30	J0813+2435	02 15 07	19.4	74.7	-6.0		-39.5	14	723	14 15 30
14 17 00	=0810+247	02 16 37	19.6	75.0	-6.0		-39.6	90	734	14 15 31
14 17 00	HS0810+2554	02 16 37	20.5	74.2	-6.0		-39.9	-16	734	No stop
14 20 30	---	02 20 08	21.0	74.9	-5.9		-40.0	194	761	14 17 01
14 20 30	J0813+2435	02 20 08	20.1	75.6	-5.9		-39.7	-16	761	No stop
14 22 00	=0810+247	02 21 38	20.3	75.9	-5.9		-39.8	74	773	14 20 31
14 22 00	HS0810+2554	02 21 38	21.3	75.1	-5.9		-40.1	-16	773	No stop
14 25 30	---	02 25 09	21.8	75.8	-5.8		-40.2	194	800	14 22 01
14 26 00	J0813+2435	02 25 39	20.9	76.6	-5.8		-40.0	14	800	14 26 00
14 27 30	=0810+247	02 27 09	21.1	76.9	-5.8		-40.0	90	812	14 26 01
14 27 30	HS0810+2554	02 27 09	22.1	76.2	-5.8		-40.3	-16	812	No stop
14 31 00	---	02 30 40	22.6	76.8	-5.7		-40.4	194	839	14 27 31
14 31 00	J0813+2435	02 30 40	21.7	77.6	-5.7		-40.1	-16	839	No stop
14 32 30	=0810+247	02 32 10	21.9	77.9	-5.7		-40.2	74	850	14 31 01

Schedule for TORUN (Code Tr)

Page 5

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
14 32 30	HS0810+2554	02 32 10	22.8	77.1	-5.7		-40.5	-16	850	No stop
14 36 00	---	02 35 40	23.3	77.7	-5.7		-40.6	194	877	14 32 31
14 36 30	J0813+2435	02 36 10	22.5	78.6	-5.6		-40.3	14	877	14 36 30
14 38 00	=0810+247	02 37 41	22.7	78.9	-5.6		-40.4	90	889	14 36 31
14 38 00	HS0810+2554	02 37 41	23.6	78.1	-5.6		-40.7	-16	889	No stop
14 41 30	---	02 41 11	24.1	78.8	-5.6		-40.8	194	916	14 38 01
14 41 30	J0813+2435	02 41 11	23.2	79.5	-5.6		-40.5	-16	916	No stop
14 43 00	=0810+247	02 42 42	23.4	79.8	-5.5		-40.5	74	927	14 41 31
14 43 00	HS0810+2554	02 42 42	24.3	79.1	-5.5		-40.9	-16	927	No stop
14 46 30	---	02 46 12	24.9	79.7	-5.5		-41.0	194	955	14 43 01
14 47 00	J0813+2435	02 46 42	24.0	80.6	-5.5		-40.6	14	955	14 47 00
14 48 30	=0810+247	02 48 12	24.2	80.9	-5.4		-40.7	90	966	14 47 01
14 48 30	HS0810+2554	02 48 12	25.2	80.1	-5.4		-41.0	-16	966	No stop
14 52 00	---	02 51 43	25.7	80.8	-5.4		-41.1	194	993	14 48 31
14 52 00	J0813+2435	02 51 43	24.8	81.5	-5.4		-40.8	-16	993	No stop
14 53 30	=0810+247	02 53 13	25.0	81.8	-5.4		-40.8	74	1005	14 52 01
14 53 30	HS0810+2554	02 53 13	25.9	81.0	-5.4		-41.2	-16	1005	No stop
14 57 00	---	02 56 44	26.4	81.7	-5.3		-41.2	194	1032	14 53 31
14 57 30	J0813+2435	02 57 14	25.6	82.6	-5.3		-40.9	14	1032	14 57 30
14 59 00	=0810+247	02 58 44	25.8	82.9	-5.3		-40.9	90	1043	14 57 31
14 59 00	HS0810+2554	02 58 44	26.7	82.1	-5.3		-41.3	-16	1043	No stop
15 02 30	---	03 02 15	27.2	82.7	-5.2		-41.4	194	1070	14 59 01
15 02 30	J0813+2435	03 02 15	26.3	83.5	-5.2		-41.0	-16	1070	No stop
15 04 00	=0810+247	03 03 45	26.6	83.8	-5.2		-41.0	74	1082	15 02 31
15 04 00	HS0810+2554	03 03 45	27.5	83.0	-5.2		-41.4	-16	1082	No stop
15 07 30	---	03 07 16	28.0	83.7	-5.1		-41.5	194	1109	15 04 01
15 08 00	J0813+2435	03 07 46	27.2	84.6	-5.1		-41.1	14	1109	15 08 00
15 09 30	=0810+247	03 09 16	27.4	84.9	-5.1		-41.1	90	1121	15 08 01
15 09 30	HS0810+2554	03 09 16	28.3	84.1	-5.1		-41.5	-16	1121	No stop
15 13 00	---	03 12 46	28.8	84.8	-5.0		-41.6	194	1148	15 09 31

Schedule for TORUN (Code Tr)

Page 6

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
15 13 00	J0813+2435	03 12 46	27.9	85.6	-5.0		-41.2	-16	1148	No stop
15 14 30	=0810+247	03 14 17	28.1	85.9	-5.0		-41.2	74	1159	15 13 01
15 14 30	HS0810+2554	03 14 17	29.0	85.0	-5.0		-41.6	-16	1159	No stop
15 18 00	---	03 17 47	29.6	85.7	-5.0		-41.6	194	1186	15 14 31
15 18 30	J0813+2435	03 18 17	28.7	86.6	-4.9		-41.2	14	1186	15 18 30
15 20 00	=0810+247	03 19 48	29.0	86.9	-4.9		-41.2	90	1198	15 18 31
15 20 00	HS0810+2554	03 19 48	29.9	86.1	-4.9		-41.7	-16	1198	No stop
15 23 30	---	03 23 18	30.4	86.8	-4.9		-41.7	194	1225	15 20 01
15 23 30	J0813+2435	03 23 18	29.5	87.6	-4.9		-41.3	-16	1225	No stop
15 25 00	=0810+247	03 24 48	29.7	87.9	-4.8		-41.3	74	1237	15 23 31
15 25 00	HS0810+2554	03 24 48	30.6	87.1	-4.8		-41.7	-16	1237	No stop
15 28 30	---	03 28 19	31.1	87.8	-4.8		-41.7	194	1264	15 25 01
15 29 00	J0813+2435	03 28 49	30.3	88.7	-4.8		-41.3	14	1264	15 29 00
15 30 30	=0810+247	03 30 19	30.5	89.0	-4.7		-41.3	90	1275	15 29 01
15 30 30	HS0810+2554	03 30 19	31.4	88.2	-4.7		-41.8	-16	1275	No stop
15 34 00	---	03 33 50	32.0	88.9	-4.7		-41.8	194	1302	15 30 31
15 34 00	J0813+2435	03 33 50	31.1	89.7	-4.7		-41.3	-16	1302	No stop
15 35 30	=0810+247	03 35 20	31.3	90.0	-4.7		-41.3	74	1314	15 34 01
15 35 30	HS0810+2554	03 35 20	32.2	89.2	-4.7		-41.8	-16	1314	No stop
15 39 00	---	03 38 51	32.7	89.9	-4.6		-41.8	194	1341	15 35 31
15 39 30	J0813+2435	03 39 21	31.9	90.8	-4.6		-41.3	14	1341	15 39 30
15 41 00	=0810+247	03 40 51	32.1	91.1	-4.6		-41.3	90	1353	15 39 31
15 41 00	HS0810+2554	03 40 51	33.0	90.3	-4.6		-41.8	-16	1353	No stop
15 44 30	---	03 44 22	33.5	91.0	-4.5		-41.8	194	1380	15 41 01
15 44 30	J0813+2435	03 44 22	32.6	91.8	-4.5		-41.3	-16	1380	No stop
15 46 00	=0810+247	03 45 52	32.9	92.1	-4.5		-41.3	74	1391	15 44 31
15 46 00	HS0810+2554	03 45 52	33.8	91.3	-4.5		-41.8	-16	1391	No stop
15 49 30	---	03 49 22	34.3	92.0	-4.4		-41.8	194	1418	15 46 01
15 50 00	J0813+2435	03 49 53	33.5	93.0	-4.4		-41.2	14	1418	15 50 00
15 51 30	=0810+247	03 51 23	33.7	93.3	-4.4		-41.2	90	1430	15 50 01

Schedule for TORUN (Code Tr)

Page 7

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
15 51 30	HS0810+2554	03 51 23	34.6	92.4	-4.4		-41.7	-16	1430	No stop
15 55 00	---	03 54 53	35.1	93.1	-4.3		-41.7	194	1457	15 51 31
15 55 00	J0813+2435	03 54 53	34.2	94.0	-4.3		-41.2	-16	1457	No stop
15 56 30	=0810+247	03 56 24	34.4	94.3	-4.3		-41.2	74	1469	15 55 01
15 56 30	HS0810+2554	03 56 24	35.3	93.4	-4.3		-41.7	-16	1469	No stop
16 00 00	---	03 59 54	35.9	94.1	-4.2		-41.6	194	1496	15 56 31
16 00 30	J0813+2435	04 00 24	35.0	95.1	-4.2		-41.1	14	1496	16 00 30
16 02 00	=0810+247	04 01 54	35.3	95.4	-4.2		-41.1	90	1507	16 00 31
16 02 00	HS0810+2554	04 01 54	36.2	94.6	-4.2		-41.6	-16	1507	No stop
16 05 30	---	04 05 25	36.7	95.3	-4.2		-41.6	194	1534	16 02 01
16 05 30	J0813+2435	04 05 25	35.8	96.2	-4.2		-41.0	-16	1534	No stop
16 07 00	=0810+247	04 06 55	36.0	96.5	-4.1		-41.0	74	1546	16 05 31
16 07 00	HS0810+2554	04 06 55	36.9	95.6	-4.1		-41.5	-16	1546	No stop
16 10 30	---	04 10 26	37.4	96.4	-4.1		-41.5	194	1573	16 07 01
16 11 00	J0813+2435	04 10 56	36.6	97.4	-4.1		-40.9	14	1573	16 11 00
16 12 30	=0810+247	04 12 26	36.8	97.7	-4.0		-40.9	90	1584	16 11 01
16 12 30	HS0810+2554	04 12 26	37.7	96.8	-4.0		-41.4	-16	1584	No stop
16 16 00	---	04 15 57	38.3	97.5	-4.0		-41.3	194	1612	16 12 31
16 16 00	J0813+2435	04 15 57	37.4	98.4	-4.0		-40.8	-16	1612	No stop
16 17 30	=0810+247	04 17 27	37.6	98.8	-4.0		-40.7	74	1623	16 16 01
16 17 30	HS0810+2554	04 17 27	38.5	97.9	-4.0		-41.3	-16	1623	No stop
16 21 00	---	04 20 58	39.0	98.6	-3.9		-41.2	194	1650	16 17 31
16 21 30	J0813+2435	04 21 28	38.2	99.6	-3.9		-40.6	14	1650	16 21 30
16 23 00	=0810+247	04 22 58	38.4	100.0	-3.9		-40.5	90	1662	16 21 31
16 23 00	HS0810+2554	04 22 58	39.3	99.1	-3.9		-41.1	-16	1662	No stop
16 26 30	---	04 26 29	39.8	99.8	-3.8		-41.0	194	1689	16 23 01
16 26 30	J0813+2435	04 26 29	38.9	100.8	-3.8		-40.4	-16	1689	No stop
16 28 00	=0810+247	04 27 59	39.1	101.1	-3.8		-40.4	74	1700	16 26 31
16 28 00	HS0810+2554	04 27 59	40.1	100.2	-3.8		-41.0	-16	1700	No stop
16 31 30	---	04 31 29	40.6	101.0	-3.7		-40.9	194	1727	16 28 01

Schedule for TORUN (Code Tr)

Page 8

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
16 32 00	J0813+2435	04 31 59	39.7	102.0	-3.7		-40.2	14	1727	16 32 00
16 33 30	=0810+247	04 33 30	40.0	102.3	-3.7		-40.2	90	1739	16 32 01
16 33 30	HS0810+2554	04 33 30	40.9	101.4	-3.7		-40.8	-16	1739	No stop
16 37 00	---	04 37 00	41.4	102.2	-3.6		-40.6	194	1766	16 33 31
16 37 00	J0813+2435	04 37 00	40.5	103.1	-3.6		-40.0	-16	1766	No stop
16 38 30	=0810+247	04 38 30	40.7	103.5	-3.6		-39.9	74	1778	16 37 01
16 38 30	HS0810+2554	04 38 30	41.6	102.5	-3.6		-40.6	-16	1778	No stop
16 42 00	---	04 42 01	42.1	103.4	-3.5		-40.4	194	1805	16 38 31
16 42 30	J0813+2435	04 42 31	41.3	104.4	-3.5		-39.7	14	1805	16 42 30
16 44 00	=0810+247	04 44 01	41.5	104.8	-3.5		-39.7	90	1816	16 42 31
16 44 00	HS0810+2554	04 44 01	42.4	103.8	-3.5		-40.3	-16	1816	No stop
16 47 30	---	04 47 32	42.9	104.6	-3.5		-40.1	194	1843	16 44 01
16 47 30	J0813+2435	04 47 32	42.0	105.6	-3.5		-39.5	-16	1843	No stop
16 49 00	=0810+247	04 49 02	42.2	105.9	-3.4		-39.4	74	1855	16 47 31
16 49 00	HS0810+2554	04 49 02	43.1	105.0	-3.4		-40.1	-16	1855	No stop
16 52 30	---	04 52 33	43.6	105.8	-3.4		-39.9	194	1882	16 49 01
16 53 00	J0813+2435	04 53 03	42.8	106.9	-3.4		-39.2	14	1882	16 53 00
16 54 30	=0810+247	04 54 33	43.0	107.3	-3.3		-39.1	90	1894	16 53 01
16 54 30	HS0810+2554	04 54 33	43.9	106.3	-3.3		-39.8	-16	1894	No stop
16 58 00	---	04 58 04	44.4	107.2	-3.3		-39.5	194	1921	16 54 31
16 58 00	J0813+2435	04 58 04	43.5	108.1	-3.3		-38.9	-16	1921	No stop
16 59 30	=0810+247	04 59 34	43.7	108.5	-3.3		-38.8	74	1932	16 58 01
16 59 30	HS0810+2554	04 59 34	44.7	107.5	-3.3		-39.4	-16	1932	No stop
17 03 00	---	05 03 05	45.2	108.4	-3.2		-39.2	194	1959	16 59 31
17 03 30	J0813+2435	05 03 35	44.3	109.5	-3.2		-38.5	14	1959	17 03 30
17 05 00	=0810+247	05 05 05	44.5	109.8	-3.2		-38.4	90	1971	17 03 31
17 05 00	HS0810+2554	05 05 05	45.4	108.9	-3.2		-39.1	-16	1971	No stop
17 08 30	---	05 08 35	45.9	109.8	-3.1		-38.8	194	1998	17 05 01
17 08 30	J0813+2435	05 08 35	45.0	110.7	-3.1		-38.1	-16	1998	No stop
17 10 00	=0810+247	05 10 06	45.2	111.1	-3.1		-38.0	74	2010	17 08 31

Schedule for TORUN (Code Tr)

Page 9

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
17 10 00	HS0810+2554	05 10 06	46.2	110.1	-3.1		-38.7	-16	2010	No stop
17 13 30	---	05 13 36	46.6	111.0	-3.0		-38.5	194	2037	17 10 01
17 14 00	J0813+2435	05 14 06	45.8	112.1	-3.0		-37.7	14	2037	17 14 00
17 15 30	=0810+247	05 15 37	46.0	112.5	-3.0		-37.6	90	2048	17 14 01
17 15 30	HS0810+2554	05 15 37	46.9	111.6	-3.0		-38.3	-16	2048	No stop
17 19 00	---	05 19 07	47.4	112.5	-2.9		-38.0	194	2075	17 15 31
17 19 00	J0813+2435	05 19 07	46.5	113.4	-2.9		-37.3	-16	2075	No stop
17 20 30	=0810+247	05 20 37	46.7	113.8	-2.9		-37.1	74	2087	17 19 01
17 20 30	HS0810+2554	05 20 37	47.6	112.9	-2.9		-37.9	-16	2087	No stop
17 24 00	---	05 24 08	48.1	113.8	-2.8		-37.6	194	2114	17 20 31
17 24 30	J0813+2435	05 24 38	47.2	114.9	-2.8		-36.8	14	2114	17 24 30
17 26 00	=0810+247	05 26 08	47.4	115.3	-2.8		-36.6	90	2126	17 24 31
17 26 00	HS0810+2554	05 26 08	48.4	114.3	-2.8		-37.4	-16	2126	No stop
17 29 30	---	05 29 39	48.9	115.3	-2.8		-37.0	194	2153	17 26 01
17 29 30	J0813+2435	05 29 39	47.9	116.3	-2.8		-36.3	-16	2153	No stop
17 31 00	=0810+247	05 31 09	48.1	116.7	-2.7		-36.1	74	2164	17 29 31
17 31 00	HS0810+2554	05 31 09	49.1	115.7	-2.7		-36.9	-16	2164	No stop
17 34 30	---	05 34 40	49.5	116.7	-2.7		-36.5	194	2191	17 31 01
17 35 00	J0813+2435	05 35 10	48.6	117.8	-2.7		-35.7	14	2191	17 35 00
17 36 30	=0810+247	05 36 40	48.8	118.2	-2.6		-35.6	90	2203	17 35 01
17 36 30	HS0810+2554	05 36 40	49.8	117.2	-2.6		-36.3	-16	2203	No stop
17 40 00	---	05 40 11	50.3	118.2	-2.6		-35.9	194	2230	17 36 31
17 40 00	J0813+2435	05 40 11	49.3	119.2	-2.6		-35.2	-16	2230	No stop
17 41 30	=0810+247	05 41 41	49.5	119.6	-2.6		-35.0	74	2241	17 40 01
17 41 30	HS0810+2554	05 41 41	50.5	118.7	-2.6		-35.8	-17	2241	No stop
17 45 00	---	05 45 11	50.9	119.7	-2.5		-35.4	193	2269	17 41 31
17 45 30	J0813+2435	05 45 41	50.0	120.8	-2.5		-34.5	14	2269	17 45 30
17 47 00	=0810+247	05 47 12	50.2	121.2	-2.5		-34.4	90	2280	17 45 31
17 47 00	HS0810+2554	05 47 12	51.2	120.3	-2.5		-35.1	-17	2280	No stop
17 50 30	---	05 50 42	51.6	121.3	-2.4		-34.7	193	2307	17 47 01

Schedule for TORUN (Code Tr)

Page 10

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
17 50 30	J0813+2435	05 50 42	50.7	122.3	-2.4		-33.9	-16	2307	No stop
17 52 00	=0810+247	05 52 13	50.8	122.7	-2.4		-33.7	74	2319	17 50 31
17 52 00	HS0810+2554	05 52 13	51.8	121.8	-2.4		-34.5	-17	2319	No stop
17 55 30	---	05 55 43	52.3	122.8	-2.3		-34.1	193	2346	17 52 01
17 56 00	J0813+2435	05 56 13	51.4	123.9	-2.3		-33.2	14	2346	17 56 00
17 57 30	=0810+247	05 57 43	51.5	124.4	-2.3		-33.0	90	2357	17 56 01
17 57 30	HS0810+2554	05 57 43	52.5	123.4	-2.3		-33.8	-17	2357	No stop
18 01 00	---	06 01 14	53.0	124.5	-2.2		-33.3	193	2384	17 57 31
18 01 00	J0813+2435	06 01 14	52.0	125.5	-2.2		-32.5	-16	2384	No stop
18 02 30	=0810+247	06 02 44	52.2	125.9	-2.2		-32.3	74	2396	18 01 01
18 02 30	HS0810+2554	06 02 44	53.2	125.0	-2.2		-33.1	-17	2396	No stop
18 06 00	---	06 06 15	53.6	126.1	-2.1		-32.6	193	2423	18 02 31
18 06 30	J0813+2435	06 06 45	52.6	127.2	-2.1		-31.7	14	2423	18 06 30
18 08 00	=0810+247	06 08 15	52.8	127.7	-2.1		-31.5	90	2435	18 06 31
18 08 00	HS0810+2554	06 08 15	53.8	126.8	-2.1		-32.3	-17	2435	No stop
18 11 30	---	06 11 46	54.2	127.9	-2.1		-31.7	193	2462	18 08 01
18 11 30	J0813+2435	06 11 46	53.2	128.8	-2.1		-30.9	-16	2462	No stop
18 13 00	=0810+247	06 13 16	53.4	129.3	-2.0		-30.7	74	2473	18 11 31
18 13 00	HS0810+2554	06 13 16	54.4	128.4	-2.0		-31.5	-17	2473	No stop
18 16 30	---	06 16 47	54.8	129.6	-2.0		-30.9	193	2500	18 13 01
18 17 00	J0813+2435	06 17 17	53.9	130.6	-2.0		-30.1	13	2500	18 17 00
18 18 30	=0810+247	06 18 47	54.0	131.1	-1.9		-29.8	90	2512	18 17 01
18 18 30	HS0810+2554	06 18 47	55.1	130.2	-1.9		-30.6	-17	2512	No stop
18 22 00	---	06 22 17	55.5	131.4	-1.9		-30.0	193	2539	18 18 31
18 22 00	J0813+2435	06 22 17	54.4	132.3	-1.9		-29.2	-17	2539	No stop
18 23 30	=0810+247	06 23 48	54.6	132.9	-1.9		-28.9	73	2551	18 22 01
18 23 30	HS0810+2554	06 23 48	55.6	132.0	-1.9		-29.7	-17	2551	No stop
18 27 00	---	06 27 18	56.0	133.2	-1.8		-29.1	193	2578	18 23 31
18 27 30	J0813+2435	06 27 48	55.0	134.2	-1.8		-28.2	13	2578	18 27 30
18 29 00	=0810+247	06 29 19	55.2	134.8	-1.8		-27.9	90	2589	18 27 31

Schedule for TORUN (Code Tr)

Page 11

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
18 29 00	HS0810+2554	06 29 19	56.2	133.9	-1.8		-28.7	-17	2589	No stop
18 32 30	---	06 32 49	56.6	135.1	-1.7		-28.0	193	2616	18 29 01
18 32 30	J0813+2435	06 32 49	55.6	136.0	-1.7		-27.3	-17	2616	No stop
18 34 00	=0810+247	06 34 19	55.7	136.6	-1.7		-27.0	73	2628	18 32 31
18 34 00	HS0810+2554	06 34 19	56.8	135.7	-1.7		-27.7	-17	2628	No stop
18 37 30	---	06 37 50	57.1	137.0	-1.6		-27.0	193	2655	18 34 01
18 38 00	J0813+2435	06 38 20	56.1	138.0	-1.6		-26.2	13	2655	18 38 00
18 39 30	=0810+247	06 39 50	56.3	138.6	-1.6		-25.9	90	2667	18 38 01
18 39 30	HS0810+2554	06 39 50	57.3	137.7	-1.6		-26.6	-17	2667	No stop
18 43 00	---	06 43 21	57.7	139.0	-1.5		-25.9	193	2694	18 39 31
18 43 00	J0813+2435	06 43 21	56.6	139.9	-1.5		-25.2	-17	2694	No stop
18 44 30	=0810+247	06 44 51	56.8	140.4	-1.5		-24.9	73	2705	18 43 01
18 44 30	HS0810+2554	06 44 51	57.8	139.6	-1.5		-25.6	-17	2705	No stop
18 48 00	---	06 48 22	58.2	141.0	-1.4		-24.8	193	2732	18 44 31
18 48 30	J0813+2435	06 48 52	57.1	142.0	-1.4		-24.0	13	2732	18 48 30
18 50 00	=0810+247	06 50 22	57.3	142.5	-1.4		-23.7	90	2744	18 48 31
18 50 00	HS0810+2554	06 50 22	58.4	141.7	-1.4		-24.4	-17	2744	No stop
18 53 30	---	06 53 53	58.7	143.1	-1.3		-23.6	193	2771	18 50 01
18 53 30	J0813+2435	06 53 53	57.6	143.9	-1.4		-22.9	-17	2771	No stop
18 55 00	=0810+247	06 55 23	57.7	144.5	-1.3		-22.5	73	2782	18 53 31
18 57 10	J0927+3902	06 57 33	60.7	103.5	-2.5		-48.6	33	2782	18 57 10
19 01 10	=4C39.25	07 01 34	61.3	104.6	-2.4		-48.3	240	2813	18 57 11
19 01 10	HS0810+2554	07 01 34	59.3	146.2	-1.2		-21.7	-100	2813	No stop
19 04 40	---	07 05 05	59.6	147.7	-1.2		-20.9	110	2840	19 01 11
19 05 10	J0813+2435	07 05 35	58.6	148.6	-1.2		-20.1	13	2840	19 05 10
19 09 10	=0810+247	07 09 35	58.9	150.2	-1.1		-19.1	240	2871	19 05 11
19 09 10	HS0810+2554	07 09 35	60.0	149.6	-1.1		-19.7	-17	2871	No stop
19 12 40	---	07 13 06	60.2	151.1	-1.0		-18.8	193	2898	19 09 11
19 13 10	J0813+2435	07 13 36	59.2	151.9	-1.0		-18.1	13	2898	19 13 10
19 14 40	=0810+247	07 15 06	59.3	152.5	-1.0		-17.7	90	2910	19 13 11

Schedule for TORUN (Code Tr)

Page 12

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
19 14 40	HS0810+2554	07 15 06	60.4	151.9	-1.0		-18.3	-17	2910	No stop
19 18 10	---	07 18 37	60.6	153.5	-0.9		-17.3	193	2937	19 14 41
19 18 10	J0813+2435	07 18 37	59.5	154.0	-0.9		-16.8	-17	2937	No stop
19 19 40	=0810+247	07 20 07	59.6	154.7	-0.9		-16.4	73	2949	19 18 11
19 19 40	HS0810+2554	07 20 07	60.7	154.1	-0.9		-16.9	-17	2949	No stop
19 23 10	---	07 23 38	61.0	155.7	-0.9		-15.9	193	2976	19 19 41
19 23 40	J0813+2435	07 24 08	59.9	156.4	-0.8		-15.3	13	2976	19 23 40
19 25 10	=0810+247	07 25 38	60.0	157.1	-0.8		-14.9	90	2987	19 23 41
19 25 10	HS0810+2554	07 25 38	61.1	156.6	-0.8		-15.3	-17	2987	No stop
19 28 40	---	07 29 08	61.3	158.2	-0.8		-14.3	193	3014	19 25 11
19 28 40	J0813+2435	07 29 08	60.2	158.6	-0.8		-13.9	-17	3014	No stop
19 30 10	=0810+247	07 30 39	60.2	159.3	-0.7		-13.5	73	3026	19 28 41
19 30 10	HS0810+2554	07 30 39	61.4	158.9	-0.7		-13.9	-17	3026	No stop
19 33 40	---	07 34 09	61.5	160.5	-0.7		-12.9	193	3053	19 30 11
19 34 10	J0813+2435	07 34 39	60.4	161.1	-0.7		-12.3	13	3053	19 34 10
19 35 40	=0810+247	07 36 10	60.5	161.8	-0.6		-11.9	90	3065	19 34 11
19 35 40	HS0810+2554	07 36 10	61.6	161.4	-0.6		-12.3	-17	3065	No stop
19 39 10	---	07 39 40	61.8	163.0	-0.6		-11.2	193	3092	19 35 41
19 39 10	J0813+2435	07 39 40	60.7	163.4	-0.6		-10.9	-17	3092	No stop
19 40 40	=0810+247	07 41 10	60.7	164.1	-0.6		-10.4	73	3103	19 39 11
19 40 40	HS0810+2554	07 41 10	61.9	163.7	-0.6		-10.8	-17	3103	No stop
19 44 10	---	07 44 41	62.0	165.4	-0.5		-9.7	193	3130	19 40 41
19 44 40	J0813+2435	07 45 11	60.9	165.9	-0.5		-9.2	13	3130	19 44 40
19 46 10	=0810+247	07 46 41	60.9	166.6	-0.5		-8.8	90	3142	19 44 41
19 46 10	HS0810+2554	07 46 41	62.1	166.3	-0.5		-9.0	-17	3142	No stop
19 49 40	---	07 50 12	62.2	168.0	-0.4		-7.9	193	3169	19 46 11
19 49 40	J0813+2435	07 50 12	61.1	168.2	-0.4		-7.7	-17	3169	No stop
19 51 10	=0810+247	07 51 42	61.1	168.9	-0.4		-7.3	73	3181	19 49 41
19 51 10	HS0810+2554	07 51 42	62.2	168.7	-0.4		-7.5	-17	3181	No stop
19 54 40	---	07 55 13	62.3	170.4	-0.3		-6.4	193	3208	19 51 11

Schedule for TORUN (Code Tr)

Page 13

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
19 55 10	J0813+2435	07 55 43	61.2	170.8	-0.3		-6.1	13	3208	19 55 10
19 56 40	=0810+247	07 57 13	61.2	171.5	-0.3		-5.6	90	3219	19 55 11
19 56 40	HS0810+2554	07 57 13	62.4	171.4	-0.3		-5.7	-17	3219	No stop
20 00 10	---	08 00 44	62.5	173.1	-0.2		-4.6	193	3246	19 56 41
20 00 10	J0813+2435	08 00 44	61.3	173.2	-0.2		-4.5	-17	3246	No stop
20 01 40	=0810+247	08 02 14	61.3	173.9	-0.2		-4.0	73	3258	20 00 11
20 01 40	HS0810+2554	08 02 14	62.5	173.8	-0.2		-4.1	-17	3258	No stop
20 05 10	---	08 05 44	62.5	175.5	-0.2		-3.0	193	3285	20 01 41
20 05 40	J0813+2435	08 06 15	61.4	175.8	-0.1		-2.8	13	3285	20 05 40
20 07 10	=0810+247	08 07 45	61.4	176.5	-0.1		-2.3	90	3296	20 05 41
20 07 10	HS0810+2554	08 07 45	62.6	176.5	-0.1		-2.3	-17	3296	No stop
20 10 40	---	08 11 15	62.6	178.2	-0.1		-1.2	193	3324	20 07 11
20 10 40	J0813+2435	08 11 15	61.4	178.2	-0.1		-1.2	-17	3324	No stop
20 12 10	=0810+247	08 12 46	61.4	178.9	-0.0		-0.7	73	3335	20 10 41
20 12 10	HS0810+2554	08 12 46	62.6	179.0	-0.0		-0.7	-17	3335	No stop
20 15 40	---	08 16 16	62.6	180.7	0.0		0.5	193	3362	20 12 11
20 16 10	J0813+2435	08 16 46	61.4	180.8	0.0		0.5	13	3362	20 16 10
20 17 40	=0810+247	08 18 16	61.4	181.5	0.1		1.0	90	3374	20 16 11
20 17 40	HS0810+2554	08 18 16	62.6	181.7	0.1		1.1	-17	3374	No stop
20 21 10	---	08 21 47	62.6	183.4	0.1		2.3	193	3401	20 17 41
20 21 10	J0813+2435	08 21 47	61.4	183.2	0.1		2.1	-17	3401	No stop
20 22 40	=0810+247	08 23 17	61.4	183.9	0.1		2.6	73	3412	20 21 11
20 22 40	HS0810+2554	08 23 17	62.5	184.1	0.1		2.7	-17	3412	No stop
20 26 10	---	08 26 48	62.5	185.8	0.2		3.9	193	3439	20 22 41
20 26 40	J0813+2435	08 27 18	61.3	185.8	0.2		3.8	13	3439	20 26 40
20 28 10	=0810+247	08 28 48	61.3	186.5	0.2		4.3	90	3451	20 26 41
20 28 10	HS0810+2554	08 28 48	62.5	186.8	0.2		4.5	-17	3451	No stop
20 31 40	---	08 32 19	62.4	188.5	0.3		5.7	193	3478	20 28 11
20 31 40	J0813+2435	08 32 19	61.3	188.2	0.3		5.4	-17	3478	No stop
20 33 10	=0810+247	08 33 49	61.2	188.9	0.3		5.8	73	3490	20 31 41

Schedule for TORUN (Code Tr)

Page 14

EH040A

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
20 33 10	HS0810+2554	08 33 49	62.4	189.2	0.3		6.1	-17	3490	No stop
20 36 40	---	08 37 20	62.3	190.9	0.4		7.3	193	3517	20 33 11
20 37 10	J0813+2435	08 37 50	61.1	190.7	0.4		7.1	13	3517	20 37 10
20 38 40	=0810+247	08 39 20	61.1	191.4	0.4		7.5	90	3528	20 37 11
20 38 40	HS0810+2554	08 39 20	62.2	191.9	0.4		7.9	-17	3528	No stop
20 42 10	---	08 42 51	62.1	193.6	0.5		9.0	193	3555	20 38 41
20 42 10	J0813+2435	08 42 51	61.0	193.1	0.5		8.6	-17	3555	No stop
20 43 40	=0810+247	08 44 21	60.9	193.8	0.5		9.0	73	3567	20 42 11
20 43 40	HS0810+2554	08 44 21	62.0	194.3	0.5		9.5	-17	3567	No stop
20 47 10	---	08 47 51	61.9	195.9	0.5		10.5	193	3594	20 43 41
20 47 40	J0813+2435	08 48 21	60.8	195.6	0.6		10.2	13	3594	20 47 40
20 49 10	=0810+247	08 49 52	60.7	196.3	0.6		10.7	90	3606	20 47 41
20 49 10	HS0810+2554	08 49 52	61.8	196.9	0.6		11.2	-17	3606	No stop
20 52 40	---	08 53 22	61.7	198.5	0.6		12.2	193	3633	20 49 11
20 52 40	J0813+2435	08 53 22	60.5	197.9	0.6		11.7	-17	3633	No stop
20 54 10	=0810+247	08 54 52	60.5	198.6	0.7		12.1	73	3644	20 52 41
20 54 10	HS0810+2554	08 54 52	61.6	199.2	0.7		12.7	-17	3644	No stop
20 57 40	---	08 58 23	61.4	200.8	0.7		13.7	193	3671	20 54 11
20 58 10	J0813+2435	08 58 53	60.3	200.4	0.7		13.3	13	3671	20 58 10
20 59 40	=0810+247	09 00 23	60.2	201.0	0.8		13.7	90	3683	20 58 11
20 59 40	HS0810+2554	09 00 23	61.3	201.7	0.8		14.3	-17	3683	No stop
21 03 10	---	09 03 54	61.1	203.3	0.8		15.3	193	3710	20 59 41
21 03 10	J0813+2435	09 03 54	60.0	202.6	0.8		14.7	-17	3710	No stop
21 04 40	=0810+247	09 05 24	59.9	203.3	0.8		15.1	73	3722	21 03 11
21 04 40	HS0810+2554	09 05 24	61.0	204.0	0.8		15.7	-17	3722	No stop
21 08 10	---	09 08 55	60.8	205.6	0.9		16.7	193	3749	21 04 41
21 08 40	J0813+2435	09 09 25	59.7	205.0	0.9		16.2	13	3749	21 08 40
21 10 10	=0810+247	09 10 55	59.6	205.7	0.9		16.6	90	3760	21 08 41
21 10 10	HS0810+2554	09 10 55	60.6	206.4	0.9		17.3	-17	3760	No stop
21 13 40	---	09 14 26	60.4	208.0	1.0		18.2	193	3787	21 10 11

Schedule for TORUN (Code Tr)

Page 15

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
21 13 40	J0813+2435	09 14 26	59.3	207.2	1.0		17.5	-17	3787	No stop
21 15 10	=0810+247	09 15 56	59.2	207.8	1.0		17.9	73	3799	21 13 41
21 15 10	HS0810+2554	09 15 56	60.3	208.6	1.0		18.6	-17	3799	No stop
21 18 40	---	09 19 27	60.0	210.1	1.1		19.5	193	3826	21 15 11
21 19 10	J0813+2435	09 19 57	58.9	209.5	1.1		19.0	13	3826	21 19 10
21 20 40	=0810+247	09 21 27	58.8	210.1	1.1		19.3	90	3838	21 19 11
21 20 40	HS0810+2554	09 21 27	59.9	211.0	1.1		20.1	-17	3838	No stop
21 24 10	---	09 24 57	59.6	212.4	1.2		20.9	193	3865	21 20 41
21 24 10	J0813+2435	09 24 57	58.6	211.5	1.2		20.2	-17	3865	No stop
21 25 40	=0810+247	09 26 28	58.4	212.2	1.2		20.6	73	3876	21 24 11
21 25 40	HS0810+2554	09 26 28	59.5	213.1	1.2		21.3	-17	3876	No stop
21 29 10	---	09 29 58	59.2	214.5	1.3		22.2	193	3903	21 25 41
21 29 40	J0813+2435	09 30 28	58.1	213.8	1.3		21.5	13	3903	21 29 40
21 31 10	=0810+247	09 31 59	58.0	214.4	1.3		21.9	90	3915	21 29 41
21 31 10	HS0810+2554	09 31 59	59.0	215.3	1.3		22.7	-17	3915	No stop
21 34 40	---	09 35 29	58.7	216.7	1.3		23.5	193	3942	21 31 11
21 34 40	J0813+2435	09 35 29	57.7	215.8	1.3		22.7	-17	3942	No stop
21 36 10	=0810+247	09 36 59	57.5	216.4	1.4		23.0	73	3953	21 34 41
21 36 10	HS0810+2554	09 36 59	58.6	217.3	1.4		23.8	-17	3953	No stop
21 39 40	---	09 40 30	58.3	218.7	1.4		24.6	193	3981	21 36 11
21 40 10	J0813+2435	09 41 00	57.2	217.9	1.4		23.9	13	3981	21 40 10
21 41 40	=0810+247	09 42 30	57.0	218.5	1.5		24.3	90	3992	21 40 11
21 41 40	HS0810+2554	09 42 30	58.1	219.5	1.5		25.1	-17	3992	No stop
21 45 10	---	09 46 01	57.7	220.8	1.5		25.8	193	4019	21 41 41
21 45 10	J0813+2435	09 46 01	56.7	219.8	1.5		25.0	-17	4019	No stop
21 46 40	=0810+247	09 47 31	56.6	220.4	1.5		25.3	73	4031	21 45 11
21 46 40	HS0810+2554	09 47 31	57.6	221.4	1.5		26.1	-17	4031	No stop
21 50 10	---	09 51 02	57.2	222.7	1.6		26.9	193	4058	21 46 41
21 50 40	J0813+2435	09 51 32	56.2	221.9	1.6		26.1	13	4058	21 50 40
21 52 10	=0810+247	09 53 02	56.0	222.4	1.6		26.4	90	4069	21 50 41

Schedule for TORUN (Code Tr)

Page 16

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
21 52 10	HS0810+2554	09 53 02	57.0	223.4	1.6		27.3	-16	4069	No stop
21 55 40	---	09 56 33	56.7	224.7	1.7		28.0	194	4096	21 52 11
21 55 40	J0813+2435	09 56 33	55.7	223.7	1.7		27.1	-17	4096	No stop
21 57 10	=0810+247	09 58 03	55.5	224.2	1.7		27.4	73	4108	21 55 41
21 57 10	HS0810+2554	09 58 03	56.5	225.3	1.7		28.3	-16	4108	No stop
22 00 40	---	10 01 33	56.1	226.5	1.8		28.9	194	4135	21 57 11
22 01 10	J0813+2435	10 02 03	55.1	225.6	1.8		28.2	13	4135	22 01 10
22 02 40	=0810+247	10 03 34	54.9	226.2	1.8		28.4	90	4147	22 01 11
22 02 40	HS0810+2554	10 03 34	55.9	227.2	1.8		29.3	-16	4147	No stop
22 06 10	---	10 07 04	55.5	228.4	1.9		29.9	194	4174	22 02 41
22 06 10	J0813+2435	10 07 04	54.5	227.4	1.9		29.1	-17	4174	No stop
22 07 40	=0810+247	10 08 35	54.4	227.9	1.9		29.3	73	4185	22 06 11
22 07 40	HS0810+2554	10 08 35	55.3	229.0	1.9		30.2	-16	4185	No stop
22 11 10	---	10 12 05	54.9	230.2	2.0		30.8	194	4212	22 07 41
22 11 40	J0813+2435	10 12 35	53.9	229.2	2.0		30.0	14	4212	22 11 40
22 13 10	=0810+247	10 14 05	53.7	229.7	2.0		30.2	90	4224	22 11 41
22 13 10	HS0810+2554	10 14 05	54.7	230.8	2.0		31.1	-16	4224	No stop
22 16 40	---	10 17 36	54.3	232.0	2.0		31.7	194	4251	22 13 11
22 16 40	J0813+2435	10 17 36	53.3	230.9	2.0		30.8	-16	4251	No stop
22 18 10	=0810+247	10 19 06	53.2	231.4	2.1		31.0	74	4263	22 16 41
22 18 10	HS0810+2554	10 19 06	54.1	232.5	2.1		31.9	-16	4263	No stop
22 21 40	---	10 22 37	53.7	233.6	2.1		32.4	194	4290	22 18 11
22 22 10	J0813+2435	10 23 07	52.7	232.7	2.1		31.7	14	4290	22 22 10
22 23 40	=0810+247	10 24 37	52.5	233.2	2.2		31.9	90	4301	22 22 11
22 23 40	HS0810+2554	10 24 37	53.4	234.3	2.2		32.7	-16	4301	No stop
22 27 10	---	10 28 08	53.0	235.4	2.2		33.2	194	4328	22 23 41
22 27 10	J0813+2435	10 28 08	52.1	234.3	2.2		32.4	-16	4328	No stop
22 28 40	=0810+247	10 29 38	51.9	234.7	2.2		32.6	74	4340	22 27 11
22 28 40	HS0810+2554	10 29 38	52.8	235.8	2.2		33.5	-16	4340	No stop
22 32 10	---	10 33 09	52.4	236.9	2.3		33.9	194	4367	22 28 41

Schedule for TORUN (Code Tr)

Page 17

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
22 32 40	J0813+2435	10 33 39	51.4	236.0	2.3		33.2	14	4367	22 32 40
22 34 10	=0810+247	10 35 09	51.2	236.4	2.3		33.4	90	4379	22 32 41
22 34 10	HS0810+2554	10 35 09	52.1	237.5	2.3		34.2	-16	4379	No stop
22 37 40	---	10 38 39	51.7	238.6	2.4		34.7	194	4406	22 34 11
22 37 40	J0813+2435	10 38 39	50.8	237.5	2.4		33.8	-16	4406	No stop
22 39 10	=0810+247	10 40 10	50.6	237.9	2.4		34.0	74	4417	22 37 41
22 39 10	HS0810+2554	10 40 10	51.5	239.0	2.4		34.8	-16	4417	No stop
22 42 40	---	10 43 40	51.0	240.1	2.5		35.3	194	4444	22 39 11
22 43 10	J0813+2435	10 44 10	50.1	239.1	2.5		34.5	14	4444	22 43 10
22 44 40	=0810+247	10 45 41	49.9	239.5	2.5		34.7	90	4456	22 43 11
22 44 40	HS0810+2554	10 45 41	50.8	240.7	2.5		35.5	-16	4456	No stop
22 48 10	---	10 49 11	50.3	241.7	2.6		35.9	194	4483	22 44 41
22 48 10	J0813+2435	10 49 11	49.4	240.6	2.6		35.1	-16	4483	No stop
22 49 40	=0810+247	10 50 41	49.2	241.0	2.6		35.3	74	4495	22 48 11
22 49 40	HS0810+2554	10 50 41	50.1	242.1	2.6		36.1	-16	4495	No stop
22 53 10	---	10 54 12	49.7	243.1	2.7		36.5	194	4522	22 49 41
22 53 40	J0813+2435	10 54 42	48.7	242.1	2.7		35.7	14	4522	22 53 40
22 55 10	=0810+247	10 56 12	48.5	242.5	2.7		35.9	90	4533	22 53 41
22 55 10	HS0810+2554	10 56 12	49.4	243.6	2.7		36.7	-16	4533	No stop
22 58 40	---	10 59 43	48.9	244.6	2.7		37.0	194	4560	22 55 11
22 58 40	J0813+2435	10 59 43	48.0	243.5	2.7		36.2	-16	4560	No stop
23 00 10	=0810+247	11 01 13	47.8	243.9	2.8		36.4	74	4572	22 58 41
23 00 10	HS0810+2554	11 01 13	48.7	245.0	2.8		37.2	-16	4572	No stop
23 03 40	---	11 04 44	48.2	246.0	2.8		37.5	194	4599	23 00 11
23 04 10	J0813+2435	11 05 14	47.3	245.0	2.8		36.7	14	4599	23 04 10
23 05 40	=0810+247	11 06 44	47.1	245.4	2.9		36.9	90	4610	23 04 11
23 05 40	HS0810+2554	11 06 44	47.9	246.5	2.9		37.7	-16	4610	No stop
23 09 10	---	11 10 15	47.5	247.4	2.9		38.0	194	4637	23 05 41
23 09 10	J0813+2435	11 10 15	46.6	246.3	2.9		37.2	-16	4637	No stop
23 10 40	=0810+247	11 11 45	46.4	246.7	2.9		37.3	74	4649	23 09 11

Schedule for TORUN (Code Tr)

Page 18

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
23 10 40	HS0810+2554	11 11 45	47.3	247.8	2.9		38.1	-16	4649	No stop
23 14 10	---	11 15 15	46.8	248.7	3.0		38.4	194	4676	23 10 41
23 14 40	J0813+2435	11 15 46	45.8	247.8	3.0		37.7	14	4676	23 14 40
23 16 10	=0810+247	11 17 16	45.6	248.2	3.0		37.8	90	4688	23 14 41
23 16 10	HS0810+2554	11 17 16	46.5	249.3	3.0		38.5	-16	4688	No stop
23 19 40	---	11 20 46	46.0	250.1	3.1		38.8	194	4715	23 16 11
23 19 40	J0813+2435	11 20 46	45.1	249.1	3.1		38.1	-16	4715	No stop
23 21 10	=0810+247	11 22 17	44.9	249.4	3.1		38.2	74	4726	23 19 41
23 21 10	HS0810+2554	11 22 17	45.8	250.5	3.1		38.9	-16	4726	No stop
23 24 40	---	11 25 47	45.3	251.4	3.2		39.2	194	4753	23 21 11
23 25 10	J0813+2435	11 26 17	44.3	250.4	3.2		38.5	14	4753	23 25 10
23 26 40	=0810+247	11 27 48	44.1	250.8	3.2		38.6	90	4765	23 25 11
23 26 40	HS0810+2554	11 27 48	45.0	251.9	3.2		39.3	-16	4765	No stop
23 30 10	---	11 31 18	44.5	252.8	3.3		39.5	194	4792	23 26 41
23 30 10	J0813+2435	11 31 18	43.6	251.7	3.3		38.8	-16	4792	No stop
23 31 40	=0810+247	11 32 48	43.4	252.0	3.3		38.9	74	4804	23 30 11
23 31 40	HS0810+2554	11 32 48	44.3	253.1	3.3		39.6	-16	4804	No stop
23 35 10	---	11 36 19	43.8	254.0	3.4		39.8	194	4831	23 31 41
23 35 40	J0813+2435	11 36 49	42.8	253.0	3.4		39.1	14	4831	23 35 40
23 37 10	=0810+247	11 38 19	42.6	253.4	3.4		39.2	90	4842	23 35 41
23 37 10	HS0810+2554	11 38 19	43.5	254.4	3.4		39.9	-15	4842	No stop
23 40 40	---	11 41 50	43.0	255.3	3.4		40.1	195	4869	23 37 11
23 40 40	J0813+2435	11 41 50	42.1	254.2	3.4		39.4	-16	4869	No stop
23 42 10	=0810+247	11 43 20	41.9	254.6	3.5		39.5	74	4881	23 40 41
23 42 10	HS0810+2554	11 43 20	42.8	255.6	3.5		40.2	-15	4881	No stop
23 45 40	---	11 46 51	42.2	256.4	3.5		40.4	195	4908	23 42 11
23 46 10	J0813+2435	11 47 21	41.3	255.5	3.5		39.7	14	4908	23 46 10
23 47 40	=0810+247	11 48 51	41.1	255.9	3.6		39.8	90	4920	23 46 11
23 47 40	HS0810+2554	11 48 51	42.0	256.9	3.6		40.5	-15	4920	No stop
23 51 10	---	11 52 22	41.4	257.7	3.6		40.6	195	4947	23 47 41

Schedule for TORUN (Code Tr)

Page 19

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Thu	3 Mar 2022	Day	62	---					
23 51 10	J0813+2435	11 52 22	40.6	256.7	3.6		40.0	-16	4947	No stop
23 52 40	=0810+247	11 53 52	40.4	257.0	3.6		40.0	74	4958	23 51 11
23 52 40	HS0810+2554	11 53 52	41.2	258.1	3.7		40.7	-15	4958	No stop
23 56 10	---	11 57 22	40.7	258.9	3.7		40.8	195	4985	23 52 41
23 56 40	J0813+2435	11 57 52	39.8	257.9	3.7		40.2	14	4985	23 56 40
23 58 10	=0810+247	11 59 23	39.6	258.3	3.7		40.3	90	4997	23 56 41

---	Start: Thu	3 Mar 2022	Day	62	--	Stop: Fri	4 Mar 2022	Day	63	---
23 58 10	HS0810+2554	11 59 23	40.4	259.3	3.7		40.9	-15	4997	No stop
00 01 40	---	12 02 53	39.9	260.1	3.8		41.0	195	5024	23 58 11
00 01 40	J0813+2435	12 02 53	39.0	259.1	3.8		40.4	-16	5024	No stop
00 03 10	=0810+247	12 04 24	38.8	259.4	3.8		40.5	74	5036	00 01 41
00 03 10	HS0810+2554	12 04 24	39.7	260.4	3.8		41.1	-15	5036	No stop
00 06 40	---	12 07 54	39.1	261.2	3.9		41.2	195	5063	00 03 11
00 07 10	J0813+2435	12 08 24	38.2	260.3	3.9		40.6	14	5063	00 07 10
00 08 40	=0810+247	12 09 54	38.0	260.6	3.9		40.6	90	5074	00 07 11
00 08 40	HS0810+2554	12 09 54	38.8	261.6	3.9		41.2	-15	5074	No stop
00 12 10	---	12 13 25	38.3	262.4	4.0		41.3	195	5101	00 08 41
00 12 10	J0813+2435	12 13 25	37.5	261.4	4.0		40.7	-16	5101	No stop
00 13 40	=0810+247	12 14 55	37.3	261.7	4.0		40.8	74	5113	00 12 11
00 13 40	HS0810+2554	12 14 55	38.1	262.7	4.0		41.4	-15	5113	No stop
00 17 10	---	12 18 26	37.6	263.5	4.1		41.5	195	5140	00 13 41
00 17 40	J0813+2435	12 18 56	36.7	262.6	4.1		40.9	14	5140	00 17 40
00 19 10	=0810+247	12 20 26	36.4	262.9	4.1		40.9	90	5151	00 17 41
00 19 10	HS0810+2554	12 20 26	37.3	263.9	4.1		41.5	-15	5151	No stop
00 22 40	---	12 23 57	36.8	264.6	4.2		41.6	195	5179	00 19 11
00 22 40	J0813+2435	12 23 57	35.9	263.6	4.1		41.0	-16	5179	No stop
00 24 10	=0810+247	12 25 27	35.7	263.9	4.2		41.0	74	5190	00 22 41
00 24 10	HS0810+2554	12 25 27	36.5	264.9	4.2		41.6	-15	5190	No stop
00 27 40	---	12 28 58	36.0	265.7	4.2		41.6	195	5217	00 24 11

Schedule for TORUN (Code Tr)

Page 20

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
00 28 10	J0813+2435	12 29 28	35.1	264.8	4.2		41.1	14	5217	00 28 10
00 29 40	=0810+247	12 30 58	34.9	265.1	4.3		41.1	90	5229	00 28 11
00 29 40	HS0810+2554	12 30 58	35.7	266.1	4.3		41.7	-15	5229	No stop
00 33 10	---	12 34 28	35.2	266.8	4.3		41.7	195	5256	00 29 41
00 33 10	J0813+2435	12 34 28	34.4	265.8	4.3		41.2	-16	5256	No stop
00 34 40	=0810+247	12 35 59	34.1	266.1	4.3		41.2	74	5267	00 33 11
00 34 40	HS0810+2554	12 35 59	35.0	267.1	4.4		41.7	-15	5267	No stop
00 38 10	---	12 39 29	34.4	267.8	4.4		41.7	195	5294	00 34 41
00 38 40	J0813+2435	12 39 59	33.5	267.0	4.4		41.2	14	5294	00 38 40
00 40 10	=0810+247	12 41 30	33.3	267.3	4.4		41.2	90	5306	00 38 41
00 40 10	HS0810+2554	12 41 30	34.1	268.3	4.4		41.8	-15	5306	No stop
00 43 40	---	12 45 00	33.6	269.0	4.5		41.8	195	5333	00 40 11
00 43 40	J0813+2435	12 45 00	32.8	268.0	4.5		41.3	-16	5333	No stop
00 45 10	=0810+247	12 46 30	32.5	268.3	4.5		41.3	74	5345	00 43 41
00 45 10	HS0810+2554	12 46 30	33.4	269.3	4.5		41.8	-15	5345	No stop
00 48 40	---	12 50 01	32.8	270.0	4.6		41.8	195	5372	00 45 11
00 49 10	J0813+2435	12 50 31	31.9	269.1	4.6		41.3	14	5372	00 49 10
00 50 40	=0810+247	12 52 01	31.7	269.4	4.6		41.3	90	5383	00 49 11
00 50 40	HS0810+2554	12 52 01	32.5	270.4	4.6		41.8	-15	5383	No stop
00 54 10	---	12 55 32	32.0	271.1	4.7		41.8	195	5410	00 50 41
00 54 10	J0813+2435	12 55 32	31.2	270.1	4.7		41.3	-16	5410	No stop
00 55 40	=0810+247	12 57 02	31.0	270.4	4.7		41.3	74	5422	00 54 11
00 55 40	HS0810+2554	12 57 02	31.8	271.4	4.7		41.8	-15	5422	No stop
00 59 10	---	13 00 33	31.3	272.1	4.8		41.8	195	5449	00 55 41
00 59 40	J0813+2435	13 01 03	30.4	271.2	4.8		41.3	14	5449	00 59 40
01 01 10	=0810+247	13 02 33	30.1	271.5	4.8		41.3	90	5461	00 59 41
01 01 10	HS0810+2554	13 02 33	31.0	272.4	4.8		41.7	-15	5461	No stop
01 04 40	---	13 06 04	30.4	273.1	4.9		41.7	195	5488	01 01 11
01 04 40	J0813+2435	13 06 04	29.6	272.2	4.8		41.3	-16	5488	No stop
01 06 10	=0810+247	13 07 34	29.4	272.5	4.9		41.3	74	5499	01 04 41

Schedule for TORUN (Code Tr)

Page 21

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
01 06 10	HS0810+2554	13 07 34	30.2	273.4	4.9		41.7	-15	5499	No stop
01 09 40	---	13 11 04	29.7	274.1	4.9		41.7	195	5526	01 06 11
01 10 10	J0813+2435	13 11 35	28.8	273.3	4.9		41.2	14	5526	01 10 10
01 11 40	=0810+247	13 13 05	28.6	273.6	5.0		41.2	90	5538	01 10 11
01 11 40	HS0810+2554	13 13 05	29.4	274.5	5.0		41.6	-15	5538	No stop
01 15 10	---	13 16 35	28.9	275.2	5.0		41.6	195	5565	01 11 41
01 15 10	J0813+2435	13 16 35	28.0	274.3	5.0		41.2	-16	5565	No stop
01 16 40	=0810+247	13 18 06	27.8	274.6	5.0		41.1	74	5577	01 15 11
01 16 40	HS0810+2554	13 18 06	28.6	275.5	5.1		41.6	-15	5577	No stop
01 20 10	---	13 21 36	28.1	276.1	5.1		41.5	195	5604	01 16 41
01 20 40	J0813+2435	13 22 06	27.2	275.3	5.1		41.1	14	5604	01 20 40
01 22 10	=0810+247	13 23 37	27.0	275.6	5.1		41.1	90	5615	01 20 41
01 22 10	HS0810+2554	13 23 37	27.8	276.5	5.1		41.5	-15	5615	No stop
01 25 40	---	13 27 07	27.3	277.2	5.2		41.4	195	5642	01 22 11
01 25 40	J0813+2435	13 27 07	26.5	276.3	5.2		41.0	-16	5642	No stop
01 27 10	=0810+247	13 28 37	26.2	276.6	5.2		41.0	74	5654	01 25 41
01 27 10	HS0810+2554	13 28 37	27.1	277.5	5.2		41.3	-15	5654	No stop
01 30 40	---	13 32 08	26.5	278.1	5.3		41.3	195	5681	01 27 11
01 31 10	J0813+2435	13 32 38	25.6	277.3	5.3		40.9	14	5681	01 31 10
01 32 40	=0810+247	13 34 08	25.4	277.6	5.3		40.9	90	5693	01 31 11
01 32 40	HS0810+2554	13 34 08	26.2	278.5	5.3		41.2	-15	5693	No stop
01 36 10	---	13 37 39	25.7	279.2	5.4		41.1	195	5720	01 32 41
01 36 10	J0813+2435	13 37 39	24.9	278.3	5.4		40.8	-16	5720	No stop
01 37 40	=0810+247	13 39 09	24.7	278.6	5.4		40.7	74	5731	01 36 11
01 37 40	HS0810+2554	13 39 09	25.5	279.5	5.4		41.1	-15	5731	No stop
01 41 10	---	13 42 40	25.0	280.1	5.5		41.0	195	5758	01 37 41
01 41 40	J0813+2435	13 43 10	24.1	279.3	5.5		40.6	14	5758	01 41 40
01 43 10	=0810+247	13 44 40	23.9	279.6	5.5		40.6	90	5770	01 41 41
01 43 10	HS0810+2554	13 44 40	24.7	280.5	5.5		40.9	-15	5770	No stop
01 46 40	---	13 48 11	24.2	281.2	5.6		40.8	195	5797	01 43 11

Schedule for TORUN (Code Tr)

Page 22

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
01 46 40	J0813+2435	13 48 11	23.3	280.3	5.6		40.5	-16	5797	No stop
01 48 10	=0810+247	13 49 41	23.1	280.6	5.6		40.5	74	5808	01 46 41
01 48 10	HS0810+2554	13 49 41	23.9	281.4	5.6		40.8	-15	5808	No stop
01 51 40	---	13 53 11	23.4	282.1	5.6		40.7	195	5836	01 48 11
01 52 10	J0813+2435	13 53 41	22.5	281.3	5.6		40.3	14	5836	01 52 10
01 53 40	=0810+247	13 55 12	22.3	281.6	5.7		40.3	90	5847	01 52 11
01 53 40	HS0810+2554	13 55 12	23.1	282.5	5.7		40.6	-15	5847	No stop
01 57 10	---	13 58 42	22.6	283.1	5.7		40.5	195	5874	01 53 41
01 57 10	J0813+2435	13 58 42	21.8	282.3	5.7		40.2	-16	5874	No stop
01 58 40	=0810+247	14 00 13	21.6	282.5	5.8		40.1	74	5886	01 57 11
01 58 40	HS0810+2554	14 00 13	22.4	283.4	5.8		40.4	-15	5886	No stop
02 02 10	---	14 03 43	21.9	284.0	5.8		40.3	195	5913	01 58 41
02 02 40	J0813+2435	14 04 13	21.0	283.3	5.8		40.0	14	5913	02 02 40
02 04 10	=0810+247	14 05 43	20.8	283.6	5.8		39.9	90	5924	02 02 41
02 04 10	HS0810+2554	14 05 43	21.6	284.4	5.8		40.2	-15	5924	No stop
02 07 40	---	14 09 14	21.1	285.1	5.9		40.0	195	5951	02 04 11
02 07 40	J0813+2435	14 09 14	20.2	284.2	5.9		39.8	-16	5951	No stop
02 09 10	=0810+247	14 10 44	20.0	284.5	5.9		39.7	74	5963	02 07 41
02 09 10	HS0810+2554	14 10 44	20.9	285.3	5.9		40.0	-15	5963	No stop
02 12 40	---	14 14 15	20.4	286.0	6.0		39.8	195	5990	02 09 11
02 13 10	J0813+2435	14 14 45	19.4	285.3	6.0		39.6	14	5990	02 13 10
02 14 40	=0810+247	14 16 15	19.2	285.5	6.0		39.5	90	6002	02 13 11
02 14 40	HS0810+2554	14 16 15	20.1	286.4	6.0		39.7	-15	6002	No stop
02 18 10	---	14 19 46	19.6	287.0	6.1		39.6	195	6029	02 14 41
02 18 10	J0813+2435	14 19 46	18.7	286.2	6.1		39.3	-16	6029	No stop
02 19 40	=0810+247	14 21 16	18.5	286.5	6.1		39.3	74	6040	02 18 11
02 19 40	HS0810+2554	14 21 16	19.4	287.3	6.1		39.5	-16	6040	No stop
02 23 10	---	14 24 47	18.9	287.9	6.2		39.3	194	6067	02 19 41
02 23 40	J0813+2435	14 25 17	17.9	287.2	6.2		39.1	14	6067	02 23 40
02 25 10	=0810+247	14 26 47	17.7	287.5	6.2		39.0	90	6079	02 23 41

Schedule for TORUN (Code Tr)

Page 23

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop				Early	Disk	TPStart		
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
02 25 10	HS0810+2554	14 26 47	18.6	288.3	6.2		39.2	-16	6079	No stop
02 28 40	---	14 30 17	18.1	289.0	6.3		39.1	194	6106	02 25 11
02 28 40	J0813+2435	14 30 17	17.2	288.1	6.3		38.8	-16	6106	No stop
02 30 10	=0810+247	14 31 48	17.0	288.4	6.3		38.8	74	6118	02 28 41
02 30 10	HS0810+2554	14 31 48	17.9	289.2	6.3		39.0	-16	6118	No stop
02 33 40	---	14 35 18	17.4	289.9	6.3		38.8	194	6145	02 30 11
02 34 10	J0813+2435	14 35 48	16.4	289.2	6.3		38.6	14	6145	02 34 10
02 35 40	=0810+247	14 37 19	16.2	289.4	6.4		38.5	90	6156	02 34 11
02 35 40	HS0810+2554	14 37 19	17.1	290.2	6.4		38.7	-16	6156	No stop
02 39 10	---	14 40 49	16.6	290.9	6.4		38.5	194	6183	02 35 41
02 39 10	J0813+2435	14 40 49	15.7	290.1	6.4		38.3	-16	6183	No stop
02 40 40	=0810+247	14 42 19	15.5	290.4	6.5		38.2	74	6195	02 39 11
02 40 40	HS0810+2554	14 42 19	16.4	291.2	6.5		38.4	-16	6195	No stop
02 44 10	---	14 45 50	15.9	291.8	6.5		38.2	194	6222	02 40 41
02 44 40	J0813+2435	14 46 20	14.9	291.1	6.5		38.0	14	6222	02 44 40
02 46 10	=0810+247	14 47 50	14.7	291.4	6.5		37.9	90	6234	02 44 41
02 46 10	HS0810+2554	14 47 50	15.6	292.2	6.5		38.1	-16	6234	No stop
02 49 40	---	14 51 21	15.1	292.8	6.6		37.9	194	6261	02 46 11
02 49 40	J0813+2435	14 51 21	14.2	292.0	6.6		37.7	-16	6261	No stop
02 51 10	=0810+247	14 52 51	14.0	292.3	6.6		37.6	74	6272	02 49 41
02 51 10	HS0810+2554	14 52 51	14.9	293.1	6.6		37.8	-16	6272	No stop
02 54 40	---	14 56 22	14.4	293.7	6.7		37.6	194	6299	02 51 11
02 55 10	J0813+2435	14 56 52	13.5	293.1	6.7		37.4	14	6299	02 55 10
02 56 40	=0810+247	14 58 22	13.3	293.4	6.7		37.3	90	6311	02 55 11
02 56 40	HS0810+2554	14 58 22	14.1	294.1	6.7		37.5	-16	6311	No stop
03 00 10	---	15 01 53	13.7	294.8	6.8		37.2	194	6338	02 56 41
03 00 10	J0813+2435	15 01 53	12.8	294.0	6.8		37.1	-16	6338	No stop
03 01 40	=0810+247	15 03 23	12.6	294.3	6.8		37.0	74	6350	03 00 11
03 01 40	HS0810+2554	15 03 23	13.5	295.0	6.8		37.1	-16	6350	No stop
03 05 10	---	15 06 53	13.0	295.7	6.9		36.9	194	6377	03 01 41

Schedule for TORUN (Code Tr)

Page 24

EH040A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
03 05 40	J0813+2435	15 07 24	12.0	295.0	6.9		36.7	14	6377	03 05 40
03 07 10	=0810+247	15 08 54	11.8	295.3	6.9		36.6	90	6388	03 05 41
03 07 10	HS0810+2554	15 08 54	12.7	296.1	6.9		36.8	-16	6388	No stop
03 10 40	---	15 12 24	12.2	296.7	7.0		36.5	194	6415	03 07 11
03 10 40	J0813+2435	15 12 24	11.4	296.0	7.0		36.4	-16	6415	No stop
03 12 10	=0810+247	15 13 55	11.2	296.2	7.0		36.3	74	6427	03 10 41
03 12 10	HS0810+2554	15 13 55	12.0	297.0	7.0		36.4	-16	6427	No stop
03 15 40	---	15 17 25	11.6	297.6	7.0		36.2	194	6454	03 12 11
03 16 10	J0813+2435	15 17 55	10.6	297.0	7.0		36.0	14	6454	03 16 10
03 17 40	=0810+247	15 19 25	10.4	297.3	7.1		35.9	90	6465	03 16 11
03 17 40	HS0810+2554	15 19 25	11.3	298.0	7.1		36.0	-16	6465	No stop
03 21 10	---	15 22 56	10.8	298.7	7.1		35.8	194	6493	03 17 41
03 21 10	J0813+2435	15 22 56	9.9	297.9	7.1		35.7	-16	6493	No stop
03 22 40	=0810+247	15 24 26	9.7	298.2	7.2		35.6	74	6504	03 21 11
03 22 40	HS0810+2554	15 24 26	10.6	298.9	7.2		35.7	-16	6504	No stop
03 26 10	---	15 27 57	10.2	299.6	7.2		35.4	194	6531	03 22 41
03 26 40	J0813+2435	15 28 27	9.2	299.0	7.2		35.3	14	6531	03 26 40
03 28 10	=0810+247	15 29 57	9.0	299.3	7.2		35.2	90	6543	03 26 41
03 28 10	HS0810+2554	15 29 57	9.9	300.0	7.3		35.3	-16	6543	No stop
03 31 40	---	15 33 28	9.5	300.6	7.3		35.0	194	6570	03 28 11
03 31 40	J0813+2435	15 33 28	8.6	299.9	7.3		34.9	-16	6570	No stop
03 33 10	=0810+247	15 34 58	8.4	300.2	7.3		34.8	74	6581	03 31 41
03 33 10	HS0810+2554	15 34 58	9.3	300.9	7.3		34.9	-16	6581	No stop
03 36 40	---	15 38 29	8.8	301.6	7.4		34.6	194	6608	03 33 11
03 37 10	J0813+2435	15 38 59	7.8	301.0	7.4		34.5	14	6608	03 37 10
03 38 40	=0810+247	15 40 29	7.7	301.2	7.4		34.4	90	6620	03 37 11
03 38 40	HS0810+2554	15 40 29	8.6	301.9	7.4		34.4	-16	6620	No stop
03 42 10	---	15 44 00	8.1	302.6	7.5		34.1	194	6647	03 38 41
03 42 10	J0813+2435	15 44 00	7.2	301.9	7.5		34.1	-16	6647	No stop
03 43 40	=0810+247	15 45 30	7.0	302.2	7.5		34.0	74	6659	03 42 11

Schedule for TORUN (Code Tr)

Page 25

EHO40A

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

```
-----
Start UT  Source          Start / Stop          Early  Disk  TPStart
Stop UT          LST      EL   AZ   HA  UP   ParA  Dwell  GBytes  SYNC
-----
```

--- Fri 4 Mar 2022 Day 63 ---

```
03 43 40 HS0810+2554 15 45 30 7.9 302.9 7.5 34.0 -16 6659 No stop
03 47 10 ---          15 49 00 7.5 303.6 7.6 33.7 194 6686 03 43 41
```

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024_16

```
Setup group: 13          Station: TORUN          Total bit rate: 1024
Format: VDIF           Bits per sample: 2      Sample rate: 32.000
Number of channels: 16  DBE type: DBBC_DDC  Speedup factor: 1.00
```

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF SB =	L	L	L	L	L	L	L	L	L
	L	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
BBC =	1	9	1	9	2	10	2	10	10
	3	11	3	11	4	12	4	12	12
BBC SB=	U	U	L	L	U	U	L	L	L
	U	U	L	L	U	U	L	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1	B1
	A1	B1	A1	B1	A1	B1	A1	B1	B1

The following frequency sets based on these setups were used.

Frequency Set: 9 Setup file default. Used with PCAL = off

LO sum=	1610.49	1610.49	1610.49	1610.49	1642.49	1642.49	1642.49	1642.49
	1674.49	1674.49	1674.49	1674.49	1706.49	1706.49	1706.49	1706.49
BBC fr=	689.51	689.51	689.51	689.51	657.51	657.51	657.51	657.51
	625.51	625.51	625.51	625.51	593.51	593.51	593.51	593.51
Bandwd=	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

Matching frequency sets: 9

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(Date)	Error (mas)
* HS0810+2554	08 10 30.433497 * 08 13 31.292599	08 14 51.645776	0.00
	25 54 08.83253 * 25 45 03.06101	25 41 03.10356	0.00
0810+247	08 10 47.674506 * 08 13 47.137770	08 15 06.869706	0.13
* J0813+2435	24 45 05.93412 * 24 35 59.15009	24 31 58.49384	0.17
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 147 observations.		
4C39.25	09 23 55.319216 * 09 27 03.013937	09 28 26.791157	0.31
* J0927+3902	39 15 23.56644 * 39 02 20.85185	38 56 36.38569	0.16
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 250526 observations.		
2134+00	21 34 05.207370 * 21 36 38.586305	21 37 44.494382	0.72
* J2136+0041	00 28 25.07986 * 00 41 54.21269	00 47 39.55518	1.22
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 28569 observations.		

eh040btr

EH040B

PI: *Philippa Hartley*

Schedule for TORUN (Code Tr)

Page 2

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are LO sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 4 Mar 2022 Day 63 ---										
Next scan frequencies: 1610.49 1610.49 1610.49 1610.49 1642.49 1642.49 1642.49 1642.49										
1674.49 1674.49 1674.49 1674.49 1706.49 1706.49 1706.49 1706.49										
Next BBC frequencies: 689.51 689.51 689.51 689.51 657.51 657.51 657.51 657.51										
625.51 625.51 625.51 625.51 593.51 593.51 593.51 593.51										
Next scan bandwidths: 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00										
16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00										

07 27 00	J2136+0041	19 29 26	31.3	141.6	-2.1		-21.9	0	0	07 27 00
07 32 00	=2134+00	19 34 27	31.8	142.9	-2.1		-21.2	300	39	07 27 01
12 36 00	HS0810+2554	00 39 17	7.3	56.2	-7.6		-33.6	17922	39	12 36 00
12 39 30	---	00 42 48	7.8	56.8	-7.5		-33.9	210	66	12 36 01
12 41 30	HS0810+2554	00 44 48	8.0	57.2	-7.5		-34.1	114	66	12 41 30
12 45 00	---	00 48 19	8.5	57.9	-7.4		-34.4	210	93	12 41 31
12 45 00	J0813+2435	00 48 19	7.5	58.5	-7.4		-34.2	-16	93	No stop
12 46 30	=0810+247	00 49 49	7.7	58.8	-7.4		-34.4	74	104	12 45 01
12 46 30	HS0810+2554	00 49 49	8.6	58.2	-7.4		-34.5	-17	104	No stop
12 50 00	---	00 53 20	9.1	58.8	-7.4		-34.8	193	131	12 46 31
12 50 30	J0813+2435	00 53 50	8.2	59.5	-7.4		-34.7	14	131	12 50 30
12 52 00	=0810+247	00 55 20	8.4	59.8	-7.3		-34.8	90	143	12 50 31
12 52 00	HS0810+2554	00 55 20	9.4	59.2	-7.3		-34.9	-17	143	No stop
12 55 30	---	00 58 50	9.8	59.8	-7.3		-35.2	193	170	12 52 01
12 55 30	J0813+2435	00 58 50	8.8	60.5	-7.3		-35.1	-16	170	No stop
12 57 00	=0810+247	01 00 21	9.0	60.8	-7.2		-35.2	74	182	12 55 31
12 57 00	HS0810+2554	01 00 21	10.0	60.1	-7.2		-35.3	-17	182	No stop
13 00 30	---	01 03 51	10.5	60.8	-7.2		-35.6	193	209	12 57 01
13 01 00	J0813+2435	01 04 21	9.6	61.5	-7.2		-35.5	14	209	13 01 00
13 02 30	=0810+247	01 05 52	9.8	61.8	-7.2		-35.6	90	220	13 01 01
13 02 30	HS0810+2554	01 05 52	10.7	61.2	-7.2		-35.7	-17	220	No stop
13 06 00	---	01 09 22	11.2	61.8	-7.1		-36.0	193	247	13 02 31
13 06 00	J0813+2435	01 09 22	10.2	62.5	-7.1		-35.8	-16	247	No stop
13 07 30	=0810+247	01 10 52	10.4	62.7	-7.1		-35.9	74	259	13 06 01

Schedule for TORUN (Code Tr)

Page 3

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri 4 Mar 2022	Day	63	---						
13 07 30	HS0810+2554	01 10 52	11.4	62.1	-7.1		-36.1	-16	259	No stop
13 11 00	---	01 14 23	11.9	62.7	-7.0		-36.3	194	286	13 07 31
13 11 30	J0813+2435	01 14 53	11.0	63.5	-7.0		-36.2	14	286	13 11 30
13 13 00	=0810+247	01 16 23	11.2	63.8	-7.0		-36.3	90	298	13 11 31
13 13 00	HS0810+2554	01 16 23	12.1	63.1	-7.0		-36.5	-16	298	No stop
13 16 30	---	01 19 54	12.6	63.8	-6.9		-36.7	194	325	13 13 01
13 16 30	J0813+2435	01 19 54	11.6	64.4	-6.9		-36.5	-16	325	No stop
13 18 00	=0810+247	01 21 24	11.8	64.7	-6.9		-36.6	74	336	13 16 31
13 18 00	HS0810+2554	01 21 24	12.8	64.0	-6.9		-36.8	-16	336	No stop
13 21 30	---	01 24 55	13.3	64.7	-6.8		-37.0	194	363	13 18 01
13 22 00	J0813+2435	01 25 25	12.4	65.4	-6.8		-36.9	14	363	13 22 00
13 23 30	=0810+247	01 26 55	12.6	65.7	-6.8		-37.0	90	375	13 22 01
13 23 30	HS0810+2554	01 26 55	13.5	65.1	-6.8		-37.2	-16	375	No stop
13 27 00	---	01 30 26	14.0	65.7	-6.7		-37.4	194	402	13 23 31
13 27 00	J0813+2435	01 30 26	13.1	66.4	-6.7		-37.2	-16	402	No stop
13 28 30	=0810+247	01 31 56	13.3	66.7	-6.7		-37.3	74	414	13 27 01
13 28 30	HS0810+2554	01 31 56	14.2	66.0	-6.7		-37.5	-16	414	No stop
13 32 00	---	01 35 26	14.7	66.6	-6.7		-37.7	194	441	13 28 31
13 32 30	J0813+2435	01 35 56	13.8	67.4	-6.7		-37.5	14	441	13 32 30
13 34 00	=0810+247	01 37 27	14.0	67.7	-6.6		-37.6	90	452	13 32 31
13 34 00	HS0810+2554	01 37 27	15.0	67.0	-6.6		-37.8	-16	452	No stop
13 37 30	---	01 40 57	15.5	67.7	-6.6		-38.0	194	479	13 34 01
13 37 30	J0813+2435	01 40 57	14.5	68.3	-6.6		-37.8	-16	479	No stop
13 39 00	=0810+247	01 42 28	14.7	68.6	-6.5		-37.9	74	491	13 37 31
13 39 00	HS0810+2554	01 42 28	15.7	67.9	-6.5		-38.1	-16	491	No stop
13 42 30	---	01 45 58	16.2	68.6	-6.5		-38.3	194	518	13 39 01
13 43 00	J0813+2435	01 46 28	15.3	69.4	-6.5		-38.1	14	518	13 43 00
13 44 30	=0810+247	01 47 58	15.5	69.6	-6.5		-38.2	90	529	13 43 01
13 44 30	HS0810+2554	01 47 58	16.5	68.9	-6.4		-38.4	-16	529	No stop
13 48 00	---	01 51 29	16.9	69.6	-6.4		-38.6	194	556	13 44 31
13 48 00	J0813+2435	01 51 29	16.0	70.3	-6.4		-38.4	-16	556	No stop
13 49 30	=0810+247	01 52 59	16.2	70.6	-6.4		-38.5	74	568	13 48 01

Schedule for TORUN (Code Tr)

Page 4

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
13 49 30	HS0810+2554	01 52 59	17.2	69.9	-6.4		-38.7	-16	568	No stop
13 53 00	---	01 56 30	17.7	70.5	-6.3		-38.9	194	595	13 49 31
13 53 30	J0813+2435	01 57 00	16.8	71.3	-6.3		-38.7	14	595	13 53 30
13 55 00	=0810+247	01 58 30	17.0	71.6	-6.3		-38.8	90	607	13 53 31
13 55 00	HS0810+2554	01 58 30	17.9	70.9	-6.3		-39.0	-16	607	No stop
13 58 30	---	02 02 01	18.4	71.5	-6.2		-39.2	194	634	13 55 01
13 58 30	J0813+2435	02 02 01	17.5	72.2	-6.2		-38.9	-16	634	No stop
14 00 00	=0810+247	02 03 31	17.7	72.5	-6.2		-39.0	74	645	13 58 31
14 00 00	HS0810+2554	02 03 31	18.7	71.8	-6.2		-39.3	-16	645	No stop
14 03 30	---	02 07 02	19.2	72.4	-6.1		-39.4	194	672	14 00 01
14 04 00	J0813+2435	02 07 32	18.3	73.3	-6.1		-39.2	14	672	14 04 00
14 05 30	=0810+247	02 09 02	18.5	73.5	-6.1		-39.3	90	684	14 04 01
14 05 30	HS0810+2554	02 09 02	19.4	72.8	-6.1		-39.5	-16	684	No stop
14 09 00	---	02 12 32	19.9	73.5	-6.0		-39.7	194	711	14 05 31
14 09 00	J0813+2435	02 12 32	19.0	74.2	-6.0		-39.4	-16	711	No stop
14 10 30	=0810+247	02 14 03	19.2	74.5	-6.0		-39.5	74	723	14 09 01
14 10 30	HS0810+2554	02 14 03	20.2	73.7	-6.0		-39.8	-16	723	No stop
14 14 00	---	02 17 33	20.7	74.4	-6.0		-39.9	194	750	14 10 31
14 14 30	J0813+2435	02 18 03	19.8	75.2	-6.0		-39.7	14	750	14 14 30
14 16 00	=0810+247	02 19 34	20.0	75.5	-5.9		-39.7	90	761	14 14 31
14 16 00	HS0810+2554	02 19 34	21.0	74.8	-5.9		-40.0	-16	761	No stop
14 19 30	---	02 23 04	21.5	75.4	-5.9		-40.2	194	788	14 16 01
14 19 30	J0813+2435	02 23 04	20.5	76.2	-5.9		-39.9	-16	788	No stop
14 21 00	=0810+247	02 24 34	20.8	76.4	-5.8		-39.9	74	800	14 19 31
14 21 00	HS0810+2554	02 24 34	21.7	75.7	-5.8		-40.2	-16	800	No stop
14 24 30	---	02 28 05	22.2	76.3	-5.8		-40.4	194	827	14 21 01
14 25 00	J0813+2435	02 28 35	21.4	77.2	-5.8		-40.1	14	827	14 25 00
14 26 30	=0810+247	02 30 05	21.6	77.5	-5.8		-40.1	90	839	14 25 01
14 26 30	HS0810+2554	02 30 05	22.5	76.7	-5.7		-40.4	-16	839	No stop
14 30 00	---	02 33 36	23.0	77.4	-5.7		-40.6	194	866	14 26 31

Schedule for TORUN (Code Tr)

Page 5

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
14 30 00	J0813+2435	02 33 36	22.1	78.1	-5.7		-40.2	-16	866	No stop
14 31 30	=0810+247	02 35 06	22.3	78.4	-5.7		-40.3	74	877	14 30 01
14 31 30	HS0810+2554	02 35 06	23.2	77.6	-5.7		-40.6	-16	877	No stop
14 35 00	---	02 38 37	23.7	78.3	-5.6		-40.7	194	904	14 31 31
14 35 30	J0813+2435	02 39 07	22.9	79.2	-5.6		-40.4	14	904	14 35 30
14 37 00	=0810+247	02 40 37	23.1	79.4	-5.6		-40.5	90	916	14 35 31
14 37 00	HS0810+2554	02 40 37	24.0	78.7	-5.6		-40.8	-16	916	No stop
14 40 30	---	02 44 08	24.6	79.3	-5.5		-40.9	194	943	14 37 01
14 40 30	J0813+2435	02 44 08	23.6	80.1	-5.5		-40.6	-16	943	No stop
14 42 00	=0810+247	02 45 38	23.9	80.4	-5.5		-40.6	74	955	14 40 31
14 42 00	HS0810+2554	02 45 38	24.8	79.6	-5.5		-40.9	-16	955	No stop
14 45 30	---	02 49 08	25.3	80.3	-5.4		-41.1	194	982	14 42 01
14 46 00	J0813+2435	02 49 39	24.5	81.1	-5.4		-40.7	14	982	14 46 00
14 47 30	=0810+247	02 51 09	24.7	81.4	-5.4		-40.7	90	993	14 46 01
14 47 30	HS0810+2554	02 51 09	25.6	80.6	-5.4		-41.1	-16	993	No stop
14 51 00	---	02 54 39	26.1	81.3	-5.3		-41.2	194	1020	14 47 31
14 51 00	J0813+2435	02 54 39	25.2	82.1	-5.3		-40.8	-16	1020	No stop
14 52 30	=0810+247	02 56 10	25.4	82.4	-5.3		-40.9	74	1032	14 51 01
14 52 30	HS0810+2554	02 56 10	26.3	81.6	-5.3		-41.2	-16	1032	No stop
14 56 00	---	02 59 40	26.9	82.3	-5.3		-41.3	194	1059	14 52 31
14 56 30	J0813+2435	03 00 10	26.0	83.1	-5.2		-40.9	14	1059	14 56 30
14 58 00	=0810+247	03 01 41	26.2	83.4	-5.2		-41.0	90	1070	14 56 31
14 58 00	HS0810+2554	03 01 41	27.2	82.6	-5.2		-41.4	-16	1070	No stop
15 01 30	---	03 05 11	27.7	83.3	-5.2		-41.4	194	1098	14 58 01
15 01 30	J0813+2435	03 05 11	26.8	84.1	-5.2		-41.0	-16	1098	No stop
15 03 00	=0810+247	03 06 41	27.0	84.4	-5.1		-41.1	74	1109	15 01 31
15 03 00	HS0810+2554	03 06 41	27.9	83.6	-5.1		-41.5	-16	1109	No stop
15 06 30	---	03 10 12	28.4	84.3	-5.1		-41.5	194	1136	15 03 01
15 07 00	J0813+2435	03 10 42	27.6	85.2	-5.1		-41.1	14	1136	15 07 00
15 08 30	=0810+247	03 12 12	27.8	85.5	-5.0		-41.1	90	1148	15 07 01

Schedule for TORUN (Code Tr)

Page 6

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
15 08 30	HS0810+2554	03 12 12	28.7	84.6	-5.0		-41.6	-16	1148	No stop
15 12 00	---	03 15 43	29.2	85.3	-5.0		-41.6	194	1175	15 08 31
15 12 00	J0813+2435	03 15 43	28.3	86.1	-5.0		-41.2	-16	1175	No stop
15 13 30	=0810+247	03 17 13	28.6	86.4	-5.0		-41.2	74	1186	15 12 01
15 13 30	HS0810+2554	03 17 13	29.5	85.6	-5.0		-41.6	-16	1186	No stop
15 17 00	---	03 20 44	30.0	86.3	-4.9		-41.7	194	1213	15 13 31
15 17 30	J0813+2435	03 21 14	29.2	87.2	-4.9		-41.2	14	1213	15 17 30
15 19 00	=0810+247	03 22 44	29.4	87.5	-4.9		-41.3	90	1225	15 17 31
15 19 00	HS0810+2554	03 22 44	30.3	86.7	-4.9		-41.7	-16	1225	No stop
15 22 30	---	03 26 15	30.8	87.4	-4.8		-41.7	194	1252	15 19 01
15 22 30	J0813+2435	03 26 15	29.9	88.2	-4.8		-41.3	-16	1252	No stop
15 24 00	=0810+247	03 27 45	30.1	88.5	-4.8		-41.3	74	1264	15 22 31
15 24 00	HS0810+2554	03 27 45	31.1	87.7	-4.8		-41.7	-16	1264	No stop
15 27 30	---	03 31 15	31.6	88.4	-4.7		-41.8	194	1291	15 24 01
15 28 00	J0813+2435	03 31 45	30.8	89.3	-4.7		-41.3	14	1291	15 28 00
15 29 30	=0810+247	03 33 16	31.0	89.6	-4.7		-41.3	90	1302	15 28 01
15 29 30	HS0810+2554	03 33 16	31.9	88.8	-4.7		-41.8	-16	1302	No stop
15 33 00	---	03 36 46	32.4	89.4	-4.6		-41.8	194	1329	15 29 31
15 33 00	J0813+2435	03 36 46	31.5	90.3	-4.6		-41.3	-16	1329	No stop
15 34 30	=0810+247	03 38 17	31.7	90.6	-4.6		-41.3	74	1341	15 33 01
15 34 30	HS0810+2554	03 38 17	32.6	89.7	-4.6		-41.8	-16	1341	No stop
15 38 00	---	03 41 47	33.2	90.4	-4.6		-41.8	194	1368	15 34 31
15 38 30	J0813+2435	03 42 17	32.3	91.4	-4.5		-41.3	14	1368	15 38 30
15 40 00	=0810+247	03 43 47	32.6	91.7	-4.5		-41.3	90	1380	15 38 31
15 40 00	HS0810+2554	03 43 47	33.5	90.9	-4.5		-41.8	-16	1380	No stop
15 43 30	---	03 47 18	34.0	91.6	-4.5		-41.8	194	1407	15 40 01
15 43 30	J0813+2435	03 47 18	33.1	92.4	-4.5		-41.3	-16	1407	No stop
15 45 00	=0810+247	03 48 48	33.3	92.7	-4.4		-41.2	74	1418	15 43 31
15 45 00	HS0810+2554	03 48 48	34.2	91.9	-4.4		-41.8	-16	1418	No stop
15 48 30	---	03 52 19	34.7	92.6	-4.4		-41.7	194	1445	15 45 01

Schedule for TORUN (Code Tr)

Page 7

EH040B

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SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
15 49 00	J0813+2435	03 52 49	33.9	93.6	-4.4		-41.2	14	1445	15 49 00
15 50 30	=0810+247	03 54 19	34.1	93.9	-4.3		-41.2	90	1457	15 49 01
15 50 30	HS0810+2554	03 54 19	35.0	93.0	-4.3		-41.7	-16	1457	No stop
15 54 00	---	03 57 50	35.6	93.7	-4.3		-41.7	194	1484	15 50 31
15 54 00	J0813+2435	03 57 50	34.7	94.6	-4.3		-41.1	-16	1484	No stop
15 55 30	=0810+247	03 59 20	34.9	94.9	-4.3		-41.1	74	1496	15 54 01
15 55 30	HS0810+2554	03 59 20	35.8	94.0	-4.3		-41.7	-16	1496	No stop
15 59 00	---	04 02 51	36.3	94.8	-4.2		-41.6	194	1523	15 55 31
15 59 30	J0813+2435	04 03 21	35.5	95.7	-4.2		-41.1	14	1523	15 59 30
16 01 00	=0810+247	04 04 51	35.7	96.1	-4.2		-41.0	90	1534	15 59 31
16 01 00	HS0810+2554	04 04 51	36.6	95.2	-4.2		-41.6	-16	1534	No stop
16 04 30	---	04 08 21	37.1	95.9	-4.1		-41.5	194	1561	16 01 01
16 04 30	J0813+2435	04 08 21	36.2	96.8	-4.1		-41.0	-16	1561	No stop
16 06 00	=0810+247	04 09 52	36.5	97.1	-4.1		-40.9	74	1573	16 04 31
16 06 00	HS0810+2554	04 09 52	37.4	96.2	-4.1		-41.5	-16	1573	No stop
16 09 30	---	04 13 22	37.9	97.0	-4.0		-41.4	194	1600	16 06 01
16 10 00	J0813+2435	04 13 52	37.1	98.0	-4.0		-40.8	14	1600	16 10 00
16 11 30	=0810+247	04 15 23	37.3	98.3	-4.0		-40.8	90	1612	16 10 01
16 11 30	HS0810+2554	04 15 23	38.2	97.4	-4.0		-41.4	-16	1612	No stop
16 15 00	---	04 18 53	38.7	98.2	-3.9		-41.3	194	1639	16 11 31
16 15 00	J0813+2435	04 18 53	37.8	99.1	-3.9		-40.7	-16	1639	No stop
16 16 30	=0810+247	04 20 23	38.0	99.4	-3.9		-40.6	74	1650	16 15 01
16 16 30	HS0810+2554	04 20 23	38.9	98.5	-3.9		-41.2	-16	1650	No stop
16 20 00	---	04 23 54	39.5	99.3	-3.8		-41.1	194	1677	16 16 31
16 20 30	J0813+2435	04 24 24	38.6	100.3	-3.8		-40.5	14	1677	16 20 30
16 22 00	=0810+247	04 25 54	38.8	100.6	-3.8		-40.4	90	1689	16 20 31
16 22 00	HS0810+2554	04 25 54	39.7	99.7	-3.8		-41.1	-16	1689	No stop
16 25 30	---	04 29 25	40.3	100.5	-3.8		-40.9	194	1716	16 22 01
16 25 30	J0813+2435	04 29 25	39.4	101.4	-3.8		-40.3	-16	1716	No stop
16 27 00	=0810+247	04 30 55	39.6	101.7	-3.7		-40.3	74	1727	16 25 31

Schedule for TORUN (Code Tr)

Page 8

EH040B

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
16 27 00	HS0810+2554	04 30 55	40.5	100.8	-3.7		-40.9	-16	1727	No stop
16 30 30	---	04 34 26	41.0	101.6	-3.7		-40.7	194	1755	16 27 01
16 31 00	J0813+2435	04 34 56	40.2	102.7	-3.7		-40.1	14	1755	16 31 00
16 32 30	=0810+247	04 36 26	40.4	103.0	-3.6		-40.0	90	1766	16 31 01
16 32 30	HS0810+2554	04 36 26	41.3	102.1	-3.6		-40.7	-16	1766	No stop
16 36 00	---	04 39 57	41.8	102.9	-3.6		-40.5	194	1793	16 32 31
16 36 00	J0813+2435	04 39 57	40.9	103.8	-3.6		-39.9	-16	1793	No stop
16 37 30	=0810+247	04 41 27	41.1	104.2	-3.6		-39.8	74	1805	16 36 01
16 37 30	HS0810+2554	04 41 27	42.0	103.2	-3.6		-40.4	-16	1805	No stop
16 41 00	---	04 44 57	42.5	104.0	-3.5		-40.3	194	1832	16 37 31
16 41 30	J0813+2435	04 45 28	41.7	105.1	-3.5		-39.6	14	1832	16 41 30
16 43 00	=0810+247	04 46 58	41.9	105.4	-3.5		-39.5	90	1843	16 41 31
16 43 00	HS0810+2554	04 46 58	42.8	104.5	-3.5		-40.2	-16	1843	No stop
16 46 30	---	04 50 28	43.3	105.3	-3.4		-40.0	194	1870	16 43 01
16 46 30	J0813+2435	04 50 28	42.4	106.3	-3.4		-39.3	-16	1870	No stop
16 48 00	=0810+247	04 51 59	42.6	106.6	-3.4		-39.2	74	1882	16 46 31
16 48 00	HS0810+2554	04 51 59	43.6	105.7	-3.4		-39.9	-16	1882	No stop
16 51 30	---	04 55 29	44.1	106.5	-3.3		-39.7	194	1909	16 48 01
16 52 00	J0813+2435	04 55 59	43.2	107.6	-3.3		-39.0	14	1909	16 52 00
16 53 30	=0810+247	04 57 30	43.4	108.0	-3.3		-38.9	90	1921	16 52 01
16 53 30	HS0810+2554	04 57 30	44.4	107.0	-3.3		-39.6	-16	1921	No stop
16 57 00	---	05 01 00	44.9	107.9	-3.2		-39.4	194	1948	16 53 31
16 57 00	J0813+2435	05 01 00	43.9	108.8	-3.2		-38.7	-16	1948	No stop
16 58 30	=0810+247	05 02 30	44.1	109.2	-3.2		-38.6	74	1959	16 57 01
16 58 30	HS0810+2554	05 02 30	45.1	108.2	-3.2		-39.3	-16	1959	No stop
17 02 00	---	05 06 01	45.6	109.1	-3.1		-39.0	194	1986	16 58 31
17 02 30	J0813+2435	05 06 31	44.7	110.2	-3.1		-38.3	14	1986	17 02 30
17 04 00	=0810+247	05 08 01	44.9	110.6	-3.1		-38.2	90	1998	17 02 31
17 04 00	HS0810+2554	05 08 01	45.9	109.6	-3.1		-38.9	-16	1998	No stop
17 07 30	---	05 11 32	46.4	110.5	-3.1		-38.6	194	2025	17 04 01

Schedule for TORUN (Code Tr)

Page 9

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
17 07 30	J0813+2435	05 11 32	45.4	111.5	-3.1		-37.9	-16	2025	No stop
17 09 00	=0810+247	05 13 02	45.6	111.9	-3.0		-37.8	74	2037	17 07 31
17 09 00	HS0810+2554	05 13 02	46.6	110.9	-3.0		-38.5	-16	2037	No stop
17 12 30	---	05 16 33	47.1	111.8	-3.0		-38.2	194	2064	17 09 01
17 13 00	J0813+2435	05 17 03	46.2	112.9	-3.0		-37.5	14	2064	17 13 00
17 14 30	=0810+247	05 18 33	46.4	113.3	-2.9		-37.3	90	2075	17 13 01
17 14 30	HS0810+2554	05 18 33	47.3	112.3	-2.9		-38.1	-16	2075	No stop
17 18 00	---	05 22 04	47.8	113.3	-2.9		-37.7	194	2102	17 14 31
17 18 00	J0813+2435	05 22 04	46.9	114.2	-2.9		-37.0	-16	2102	No stop
17 19 30	=0810+247	05 23 34	47.1	114.6	-2.9		-36.9	74	2114	17 18 01
17 19 30	HS0810+2554	05 23 34	48.0	113.7	-2.9		-37.6	-16	2114	No stop
17 23 00	---	05 27 04	48.5	114.6	-2.8		-37.3	194	2141	17 19 31
17 23 30	J0813+2435	05 27 34	47.6	115.7	-2.8		-36.5	14	2141	17 23 30
17 25 00	=0810+247	05 29 05	47.8	116.1	-2.8		-36.4	90	2153	17 23 31
17 25 00	HS0810+2554	05 29 05	48.8	115.1	-2.8		-37.1	-16	2153	No stop
17 28 30	---	05 32 35	49.3	116.1	-2.7		-36.8	194	2180	17 25 01
17 28 30	J0813+2435	05 32 35	48.3	117.1	-2.7		-36.0	-16	2180	No stop
17 30 00	=0810+247	05 34 06	48.5	117.5	-2.7		-35.8	74	2191	17 28 31
17 30 00	HS0810+2554	05 34 06	49.5	116.5	-2.7		-36.6	-16	2191	No stop
17 33 30	---	05 37 36	49.9	117.5	-2.6		-36.2	194	2218	17 30 01
17 34 00	J0813+2435	05 38 06	49.0	118.6	-2.6		-35.4	14	2218	17 34 00
17 35 30	=0810+247	05 39 36	49.2	119.0	-2.6		-35.2	90	2230	17 34 01
17 35 30	HS0810+2554	05 39 36	50.2	118.1	-2.6		-36.0	-17	2230	No stop
17 39 00	---	05 43 07	50.7	119.1	-2.5		-35.6	193	2257	17 35 31
17 39 00	J0813+2435	05 43 07	49.7	120.0	-2.5		-34.8	-16	2257	No stop
17 40 30	=0810+247	05 44 37	49.9	120.5	-2.5		-34.7	74	2269	17 39 01
17 40 30	HS0810+2554	05 44 37	50.9	119.5	-2.5		-35.4	-17	2269	No stop
17 44 00	---	05 48 08	51.3	120.5	-2.4		-35.0	193	2296	17 40 31
17 44 30	J0813+2435	05 48 38	50.4	121.7	-2.4		-34.2	14	2296	17 44 30
17 46 00	=0810+247	05 50 08	50.6	122.1	-2.4		-34.0	90	2307	17 44 31

Schedule for TORUN (Code Tr)

Page 10

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
17 46 00	HS0810+2554	05 50 08	51.6	121.1	-2.4		-34.8	-17	2307	No stop
17 49 30	---	05 53 39	52.0	122.2	-2.4		-34.3	193	2334	17 46 01
17 49 30	J0813+2435	05 53 39	51.0	123.1	-2.4		-33.5	-16	2334	No stop
17 51 00	=0810+247	05 55 09	51.2	123.6	-2.3		-33.4	74	2346	17 49 31
17 51 00	HS0810+2554	05 55 09	52.2	122.6	-2.3		-34.1	-17	2346	No stop
17 54 30	---	05 58 40	52.6	123.7	-2.3		-33.7	193	2373	17 51 01
17 55 00	J0813+2435	05 59 10	51.7	124.8	-2.3		-32.8	14	2373	17 55 00
17 56 30	=0810+247	06 00 40	51.9	125.3	-2.2		-32.6	90	2384	17 55 01
17 56 30	HS0810+2554	06 00 40	52.9	124.3	-2.2		-33.4	-17	2384	No stop
18 00 00	---	06 04 10	53.3	125.4	-2.2		-32.9	193	2411	17 56 31
18 00 00	J0813+2435	06 04 10	52.3	126.4	-2.2		-32.1	-16	2411	No stop
18 01 30	=0810+247	06 05 41	52.5	126.9	-2.2		-31.9	74	2423	18 00 01
18 01 30	HS0810+2554	06 05 41	53.5	125.9	-2.2		-32.7	-17	2423	No stop
18 05 00	---	06 09 11	53.9	127.1	-2.1		-32.1	193	2450	18 01 31
18 05 30	J0813+2435	06 09 41	53.0	128.2	-2.1		-31.3	14	2450	18 05 30
18 07 00	=0810+247	06 11 12	53.2	128.6	-2.1		-31.0	90	2462	18 05 31
18 07 00	HS0810+2554	06 11 12	54.2	127.7	-2.1		-31.8	-17	2462	No stop
18 10 30	---	06 14 42	54.6	128.9	-2.0		-31.3	193	2489	18 07 01
18 10 30	J0813+2435	06 14 42	53.6	129.8	-2.0		-30.5	-17	2489	No stop
18 12 00	=0810+247	06 16 12	53.7	130.3	-2.0		-30.2	73	2500	18 10 31
18 12 00	HS0810+2554	06 16 12	54.8	129.4	-2.0		-31.0	-17	2500	No stop
18 15 30	---	06 19 43	55.2	130.6	-1.9		-30.4	193	2527	18 12 01
18 16 00	J0813+2435	06 20 13	54.2	131.6	-1.9		-29.6	13	2527	18 16 00
18 17 30	=0810+247	06 21 43	54.4	132.1	-1.9		-29.3	90	2539	18 16 01
18 17 30	HS0810+2554	06 21 43	55.4	131.2	-1.9		-30.1	-17	2539	No stop
18 21 00	---	06 25 14	55.8	132.5	-1.8		-29.4	193	2566	18 17 31
18 21 00	J0813+2435	06 25 14	54.8	133.3	-1.8		-28.7	-17	2566	No stop
18 22 30	=0810+247	06 26 44	54.9	133.9	-1.8		-28.4	73	2578	18 21 01
18 22 30	HS0810+2554	06 26 44	56.0	133.0	-1.8		-29.2	-17	2578	No stop
18 26 00	---	06 30 15	56.3	134.2	-1.7		-28.5	193	2605	18 22 31

Schedule for TORUN (Code Tr)

Page 11

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
18 26 30	J0813+2435	06 30 45	55.3	135.3	-1.7		-27.7	13	2605	18 26 30
18 28 00	=0810+247	06 32 15	55.5	135.8	-1.7		-27.4	90	2616	18 26 31
18 28 00	HS0810+2554	06 32 15	56.6	134.9	-1.7		-28.1	-17	2616	No stop
18 31 30	---	06 35 46	56.9	136.2	-1.7		-27.5	193	2643	18 28 01
18 31 30	J0813+2435	06 35 46	55.9	137.1	-1.7		-26.7	-17	2643	No stop
18 33 00	=0810+247	06 37 16	56.0	137.6	-1.6		-26.4	73	2655	18 31 31
18 33 00	HS0810+2554	06 37 16	57.1	136.8	-1.6		-27.2	-17	2655	No stop
18 36 30	---	06 40 46	57.4	138.1	-1.6		-26.4	193	2682	18 33 01
18 37 00	J0813+2435	06 41 17	56.4	139.1	-1.6		-25.6	13	2682	18 37 00
18 38 30	=0810+247	06 42 47	56.6	139.7	-1.5		-25.3	90	2694	18 37 01
18 38 30	HS0810+2554	06 42 47	57.6	138.8	-1.5		-26.0	-17	2694	No stop
18 42 00	---	06 46 17	58.0	140.2	-1.5		-25.3	193	2721	18 38 31
18 42 00	J0813+2435	06 46 17	56.9	141.0	-1.5		-24.6	-17	2721	No stop
18 43 30	=0810+247	06 47 48	57.0	141.5	-1.5		-24.2	73	2732	18 42 01
18 43 30	HS0810+2554	06 47 48	58.1	140.7	-1.5		-24.9	-17	2732	No stop
18 47 00	---	06 51 18	58.4	142.1	-1.4		-24.2	193	2759	18 43 31
18 47 30	J0813+2435	06 51 48	57.4	143.1	-1.4		-23.4	13	2759	18 47 30
18 49 00	=0810+247	06 53 18	57.6	143.7	-1.4		-23.0	90	2771	18 47 31
18 49 00	HS0810+2554	06 53 18	58.6	142.9	-1.4		-23.7	-17	2771	No stop
18 52 30	---	06 56 49	58.9	144.3	-1.3		-22.9	193	2798	18 49 01
18 52 30	J0813+2435	06 56 49	57.9	145.0	-1.3		-22.2	-17	2798	No stop
18 54 00	=0810+247	06 58 19	58.0	145.6	-1.3		-21.9	73	2810	18 52 31
18 54 00	HS0810+2554	06 58 19	59.1	144.9	-1.3		-22.5	-17	2810	No stop
18 57 30	---	07 01 50	59.4	146.3	-1.2		-21.7	193	2837	18 54 01
18 58 00	J0813+2435	07 02 20	58.3	147.3	-1.2		-20.9	13	2837	18 58 00
18 59 30	=0810+247	07 03 50	58.4	147.9	-1.2		-20.6	90	2848	18 58 01
18 59 30	HS0810+2554	07 03 50	59.5	147.2	-1.2		-21.2	-17	2848	No stop
19 03 00	---	07 07 21	59.8	148.6	-1.1		-20.3	193	2875	18 59 31
19 03 00	J0813+2435	07 07 21	58.7	149.3	-1.1		-19.7	-17	2875	No stop
19 04 30	=0810+247	07 08 51	58.8	149.9	-1.1		-19.3	73	2887	19 03 01

Schedule for TORUN (Code Tr)

Page 12

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
19 04 30	HS0810+2554	07 08 51	59.9	149.3	-1.1		-19.9	-17	2887	No stop
19 08 00	---	07 12 22	60.2	150.8	-1.0		-19.0	193	2914	19 04 31
19 08 30	J0813+2435	07 12 52	59.1	151.6	-1.0		-18.3	13	2914	19 08 30
19 10 00	=0810+247	07 14 22	59.2	152.2	-1.0		-17.9	90	2925	19 08 31
19 10 00	HS0810+2554	07 14 22	60.3	151.6	-1.0		-18.5	-17	2925	No stop
19 13 30	---	07 17 53	60.6	153.2	-0.9		-17.5	193	2953	19 10 01
19 13 30	J0813+2435	07 17 53	59.5	153.7	-1.0		-17.0	-17	2953	No stop
19 15 00	=0810+247	07 19 23	59.6	154.4	-0.9		-16.6	73	2964	19 13 31
19 15 00	HS0810+2554	07 19 23	60.7	153.8	-0.9		-17.1	-17	2964	No stop
19 18 30	---	07 22 53	60.9	155.4	-0.9		-16.1	193	2991	19 15 01
19 19 00	J0813+2435	07 23 23	59.8	156.1	-0.9		-15.5	13	2991	19 19 00
19 20 30	=0810+247	07 24 54	59.9	156.8	-0.8		-15.1	90	3003	19 19 01
19 20 30	HS0810+2554	07 24 54	61.0	156.3	-0.8		-15.6	-17	3003	No stop
19 24 00	---	07 28 24	61.2	157.8	-0.8		-14.6	193	3030	19 20 31
19 24 00	J0813+2435	07 28 24	60.1	158.3	-0.8		-14.1	-17	3030	No stop
19 25 30	=0810+247	07 29 54	60.2	159.0	-0.8		-13.7	73	3041	19 24 01
19 25 30	HS0810+2554	07 29 54	61.3	158.5	-0.7		-14.1	-17	3041	No stop
19 29 00	---	07 33 25	61.5	160.1	-0.7		-13.1	193	3068	19 25 31
19 29 30	J0813+2435	07 33 55	60.4	160.8	-0.7		-12.6	13	3068	19 29 30
19 31 00	=0810+247	07 35 25	60.5	161.5	-0.7		-12.1	90	3080	19 29 31
19 31 00	HS0810+2554	07 35 25	61.6	161.1	-0.7		-12.5	-17	3080	No stop
19 34 30	---	07 38 56	61.8	162.7	-0.6		-11.4	193	3107	19 31 01
19 34 30	J0813+2435	07 38 56	60.6	163.0	-0.6		-11.1	-17	3107	No stop
19 36 00	=0810+247	07 40 26	60.7	163.7	-0.6		-10.7	73	3119	19 34 31
19 36 00	HS0810+2554	07 40 26	61.8	163.4	-0.6		-11.0	-17	3119	No stop
19 39 30	---	07 43 57	62.0	165.0	-0.5		-9.9	193	3146	19 36 01
19 40 00	J0813+2435	07 44 27	60.9	165.6	-0.5		-9.5	13	3146	19 40 00
19 41 30	=0810+247	07 45 57	60.9	166.3	-0.5		-9.0	90	3157	19 40 01
19 41 30	HS0810+2554	07 45 57	62.1	166.0	-0.5		-9.3	-17	3157	No stop
19 45 00	---	07 49 28	62.2	167.7	-0.4		-8.2	193	3184	19 41 31

Schedule for TORUN (Code Tr)

Page 13

EH040B

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
19 45 00	J0813+2435	07 49 28	61.0	167.9	-0.4		-8.0	-17	3184	No stop
19 46 30	=0810+247	07 50 58	61.1	168.6	-0.4		-7.5	73	3196	19 45 01
19 46 30	HS0810+2554	07 50 58	62.2	168.4	-0.4		-7.7	-17	3196	No stop
19 50 00	---	07 54 29	62.3	170.1	-0.3		-6.6	193	3223	19 46 31
19 50 30	J0813+2435	07 54 59	61.2	170.5	-0.3		-6.3	13	3223	19 50 30
19 52 00	=0810+247	07 56 29	61.2	171.2	-0.3		-5.8	90	3235	19 50 31
19 52 00	HS0810+2554	07 56 29	62.4	171.0	-0.3		-6.0	-17	3235	No stop
19 55 30	---	07 59 59	62.4	172.7	-0.2		-4.8	193	3262	19 52 01
19 55 30	J0813+2435	07 59 59	61.3	172.8	-0.3		-4.7	-17	3262	No stop
19 57 00	=0810+247	08 01 30	61.3	173.5	-0.2		-4.3	73	3273	19 55 31
19 57 00	HS0810+2554	08 01 30	62.5	173.5	-0.2		-4.3	-17	3273	No stop
20 00 30	---	08 05 00	62.5	175.2	-0.2		-3.2	193	3300	19 57 01
20 01 00	J0813+2435	08 05 30	61.4	175.4	-0.2		-3.0	13	3300	20 01 00
20 02 30	=0810+247	08 07 01	61.4	176.1	-0.1		-2.5	90	3312	20 01 01
20 02 30	HS0810+2554	08 07 01	62.5	176.2	-0.1		-2.6	-17	3312	No stop
20 06 00	---	08 10 31	62.6	177.9	-0.1		-1.4	193	3339	20 02 31
20 06 00	J0813+2435	08 10 31	61.4	177.8	-0.1		-1.4	-17	3339	No stop
20 07 30	=0810+247	08 12 01	61.4	178.5	-0.1		-1.0	73	3351	20 06 01
20 07 30	HS0810+2554	08 12 01	62.6	178.6	-0.0		-0.9	-17	3351	No stop
20 11 00	---	08 15 32	62.6	180.3	0.0		0.2	193	3378	20 07 31
20 11 30	J0813+2435	08 16 02	61.4	180.4	0.0		0.3	13	3378	20 11 30
20 13 00	=0810+247	08 17 32	61.4	181.2	0.0		0.8	90	3389	20 11 31
20 13 00	HS0810+2554	08 17 32	62.6	181.3	0.0		0.9	-17	3389	No stop
20 16 30	---	08 21 03	62.6	183.0	0.1		2.0	193	3416	20 13 01
20 16 30	J0813+2435	08 21 03	61.4	182.8	0.1		1.9	-17	3416	No stop
20 18 00	=0810+247	08 22 33	61.4	183.5	0.1		2.3	73	3428	20 16 31
20 18 00	HS0810+2554	08 22 33	62.6	183.8	0.1		2.5	-17	3428	No stop
20 21 30	---	08 26 04	62.5	185.5	0.2		3.6	193	3455	20 18 01
20 22 00	J0813+2435	08 26 34	61.4	185.4	0.2		3.6	13	3455	20 22 00
20 23 30	=0810+247	08 28 04	61.3	186.1	0.2		4.1	90	3467	20 22 01

Schedule for TORUN (Code Tr)

Page 14

EH040B

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
20 23 30	HS0810+2554	08 28 04	62.5	186.4	0.2		4.3	-17	3467	No stop
20 27 00	---	08 31 35	62.4	188.2	0.3		5.4	193	3494	20 23 31
20 27 00	J0813+2435	08 31 35	61.3	187.8	0.3		5.1	-17	3494	No stop
20 28 30	=0810+247	08 33 05	61.2	188.5	0.3		5.6	73	3505	20 27 01
20 28 30	HS0810+2554	08 33 05	62.4	188.9	0.3		5.9	-17	3505	No stop
20 32 00	---	08 36 35	62.3	190.6	0.4		7.0	193	3532	20 28 31
20 32 30	J0813+2435	08 37 05	61.1	190.4	0.4		6.8	13	3532	20 32 30
20 34 00	=0810+247	08 38 36	61.1	191.1	0.4		7.3	90	3544	20 32 31
20 34 00	HS0810+2554	08 38 36	62.2	191.5	0.4		7.7	-17	3544	No stop
20 37 30	---	08 42 06	62.1	193.2	0.5		8.8	193	3571	20 34 01
20 37 30	J0813+2435	08 42 06	61.0	192.7	0.4		8.4	-17	3571	No stop
20 39 00	=0810+247	08 43 37	60.9	193.4	0.5		8.8	73	3582	20 37 31
20 39 00	HS0810+2554	08 43 37	62.1	193.9	0.5		9.2	-17	3582	No stop
20 42 30	---	08 47 07	61.9	195.6	0.5		10.3	193	3610	20 39 01
20 43 00	J0813+2435	08 47 37	60.8	195.3	0.5		10.0	13	3610	20 43 00
20 44 30	=0810+247	08 49 07	60.7	196.0	0.6		10.5	90	3621	20 43 01
20 44 30	HS0810+2554	08 49 07	61.8	196.5	0.6		10.9	-17	3621	No stop
20 48 00	---	08 52 38	61.7	198.2	0.6		12.0	193	3648	20 44 31
20 48 00	J0813+2435	08 52 38	60.6	197.6	0.6		11.5	-17	3648	No stop
20 49 30	=0810+247	08 54 08	60.5	198.2	0.7		11.9	73	3660	20 48 01
20 49 30	HS0810+2554	08 54 08	61.6	198.9	0.7		12.4	-17	3660	No stop
20 53 00	---	08 57 39	61.4	200.5	0.7		13.5	193	3687	20 49 31
20 53 30	J0813+2435	08 58 09	60.3	200.0	0.7		13.1	13	3687	20 53 30
20 55 00	=0810+247	08 59 39	60.2	200.7	0.7		13.5	90	3698	20 53 31
20 55 00	HS0810+2554	08 59 39	61.3	201.4	0.7		14.1	-17	3698	No stop
20 58 30	---	09 03 10	61.1	203.0	0.8		15.1	193	3725	20 55 01
20 58 30	J0813+2435	09 03 10	60.0	202.3	0.8		14.5	-17	3725	No stop
21 00 00	=0810+247	09 04 40	59.9	202.9	0.8		14.9	73	3737	20 58 31
21 00 00	HS0810+2554	09 04 40	61.0	203.7	0.8		15.5	-17	3737	No stop
21 03 30	---	09 08 11	60.8	205.2	0.9		16.5	193	3764	21 00 01

Schedule for TORUN (Code Tr)

Page 15

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
21 04 00	J0813+2435	09 08 41	59.7	204.7	0.9		16.0	13	3764	21 04 00
21 05 30	=0810+247	09 10 11	59.6	205.3	0.9		16.4	90	3776	21 04 01
21 05 30	HS0810+2554	09 10 11	60.7	206.1	0.9		17.1	-17	3776	No stop
21 09 00	---	09 13 41	60.5	207.6	1.0		18.0	193	3803	21 05 31
21 09 00	J0813+2435	09 13 41	59.4	206.8	1.0		17.3	-17	3803	No stop
21 10 30	=0810+247	09 15 12	59.3	207.5	1.0		17.7	73	3814	21 09 01
21 10 30	HS0810+2554	09 15 12	60.4	208.3	1.0		18.4	-17	3814	No stop
21 14 00	---	09 18 42	60.1	209.8	1.1		19.3	193	3841	21 10 31
21 14 30	J0813+2435	09 19 12	59.0	209.2	1.1		18.8	13	3841	21 14 30
21 16 00	=0810+247	09 20 43	58.9	209.8	1.1		19.1	90	3853	21 14 31
21 16 00	HS0810+2554	09 20 43	59.9	210.7	1.1		19.9	-17	3853	No stop
21 19 30	---	09 24 13	59.7	212.1	1.2		20.8	193	3880	21 16 01
21 19 30	J0813+2435	09 24 13	58.6	211.2	1.2		20.0	-17	3880	No stop
21 21 00	=0810+247	09 25 43	58.5	211.9	1.2		20.4	73	3892	21 19 31
21 21 00	HS0810+2554	09 25 43	59.5	212.8	1.2		21.1	-17	3892	No stop
21 24 30	---	09 29 14	59.3	214.2	1.2		22.0	193	3919	21 21 01
21 25 00	J0813+2435	09 29 44	58.2	213.5	1.2		21.4	13	3919	21 25 00
21 26 30	=0810+247	09 31 14	58.0	214.1	1.3		21.7	90	3930	21 25 01
21 26 30	HS0810+2554	09 31 14	59.1	215.0	1.3		22.5	-17	3930	No stop
21 30 00	---	09 34 45	58.8	216.4	1.3		23.3	193	3957	21 26 31
21 30 00	J0813+2435	09 34 45	57.7	215.5	1.3		22.5	-17	3957	No stop
21 31 30	=0810+247	09 36 15	57.6	216.1	1.4		22.9	73	3969	21 30 01
21 31 30	HS0810+2554	09 36 15	58.6	217.0	1.4		23.7	-17	3969	No stop
21 35 00	---	09 39 46	58.3	218.4	1.4		24.5	193	3996	21 31 31
21 35 30	J0813+2435	09 40 16	57.2	217.6	1.4		23.8	13	3996	21 35 30
21 37 00	=0810+247	09 41 46	57.1	218.2	1.4		24.1	90	4008	21 35 31
21 37 00	HS0810+2554	09 41 46	58.1	219.2	1.4		24.9	-17	4008	No stop
21 40 30	---	09 45 17	57.8	220.5	1.5		25.7	193	4035	21 37 01
21 40 30	J0813+2435	09 45 17	56.8	219.5	1.5		24.8	-17	4035	No stop
21 42 00	=0810+247	09 46 47	56.6	220.1	1.5		25.2	73	4046	21 40 31

Schedule for TORUN (Code Tr)

Page 16

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
21 45 00	J0927+3902	09 49 47	75.4	196.7	0.4		12.8	96	4046	21 45 00
21 49 00	=4C39.25	09 53 48	75.2	199.6	0.4		15.0	240	4077	21 45 01
21 49 00	HS0810+2554	09 53 48	56.9	223.7	1.6		27.4	-83	4077	No stop
21 52 30	---	09 57 19	56.6	225.0	1.7		28.1	127	4104	21 49 01
21 53 00	J0813+2435	09 57 49	55.5	224.1	1.7		27.4	13	4104	21 53 00
21 57 00	=0810+247	10 01 49	55.1	225.5	1.8		28.1	240	4135	21 53 01
21 57 00	HS0810+2554	10 01 49	56.1	226.6	1.8		29.0	-16	4135	No stop
22 00 30	---	10 05 20	55.7	227.8	1.8		29.6	194	4162	21 57 01
22 01 00	J0813+2435	10 05 50	54.7	226.9	1.8		28.8	13	4162	22 01 00
22 02 30	=0810+247	10 07 20	54.5	227.5	1.9		29.1	90	4174	22 01 01
22 02 30	HS0810+2554	10 07 20	55.5	228.5	1.9		30.0	-16	4174	No stop
22 06 00	---	10 10 51	55.1	229.7	1.9		30.6	194	4201	22 02 31
22 06 00	J0813+2435	10 10 51	54.1	228.7	1.9		29.7	-16	4201	No stop
22 07 30	=0810+247	10 12 21	53.9	229.2	2.0		30.0	74	4212	22 06 01
22 07 30	HS0810+2554	10 12 21	54.9	230.2	2.0		30.8	-16	4212	No stop
22 11 00	---	10 15 52	54.5	231.4	2.0		31.4	194	4239	22 07 31
22 11 30	J0813+2435	10 16 22	53.5	230.5	2.0		30.6	14	4239	22 11 30
22 13 00	=0810+247	10 17 52	53.3	231.0	2.0		30.9	90	4251	22 11 31
22 13 00	HS0810+2554	10 17 52	54.3	232.1	2.1		31.7	-16	4251	No stop
22 16 30	---	10 21 23	53.8	233.2	2.1		32.3	194	4278	22 13 01
22 16 30	J0813+2435	10 21 23	52.9	232.1	2.1		31.4	-16	4278	No stop
22 18 00	=0810+247	10 22 53	52.7	232.6	2.1		31.6	74	4290	22 16 31
22 18 00	HS0810+2554	10 22 53	53.7	233.7	2.1		32.5	-16	4290	No stop
22 21 30	---	10 26 23	53.2	234.8	2.2		33.0	194	4317	22 18 01
22 22 00	J0813+2435	10 26 53	52.2	233.9	2.2		32.2	14	4317	22 22 00
22 23 30	=0810+247	10 28 24	52.0	234.3	2.2		32.4	90	4328	22 22 01
22 23 30	HS0810+2554	10 28 24	53.0	235.4	2.2		33.3	-16	4328	No stop
22 27 00	---	10 31 54	52.5	236.5	2.3		33.8	194	4355	22 23 31
22 27 00	J0813+2435	10 31 54	51.6	235.4	2.3		32.9	-16	4355	No stop
22 28 30	=0810+247	10 33 25	51.4	235.9	2.3		33.1	74	4367	22 27 01

Schedule for TORUN (Code Tr)

Page 17

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
22 28 30	HS0810+2554	10 33 25	52.4	237.0	2.3		34.0	-16	4367	No stop
22 32 00	---	10 36 55	51.9	238.1	2.4		34.4	194	4394	22 28 31
22 32 30	J0813+2435	10 37 25	50.9	237.1	2.4		33.7	14	4394	22 32 30
22 34 00	=0810+247	10 38 55	50.7	237.6	2.4		33.9	90	4406	22 32 31
22 34 00	HS0810+2554	10 38 55	51.7	238.7	2.4		34.7	-16	4406	No stop
22 37 30	---	10 42 26	51.2	239.7	2.5		35.1	194	4433	22 34 01
22 37 30	J0813+2435	10 42 26	50.3	238.6	2.5		34.3	-16	4433	No stop
22 39 00	=0810+247	10 43 56	50.1	239.0	2.5		34.5	74	4444	22 37 31
22 39 00	HS0810+2554	10 43 56	51.0	240.1	2.5		35.3	-16	4444	No stop
22 42 30	---	10 47 27	50.5	241.2	2.5		35.7	194	4471	22 39 01
22 43 00	J0813+2435	10 47 57	49.6	240.2	2.5		34.9	14	4471	22 43 00
22 44 30	=0810+247	10 49 27	49.4	240.6	2.6		35.1	90	4483	22 43 01
22 44 30	HS0810+2554	10 49 27	50.3	241.7	2.6		35.9	-16	4483	No stop
22 48 00	---	10 52 58	49.8	242.7	2.6		36.3	194	4510	22 44 31
22 48 00	J0813+2435	10 52 58	48.9	241.6	2.6		35.5	-16	4510	No stop
22 49 30	=0810+247	10 54 28	48.7	242.0	2.7		35.7	74	4522	22 48 01
22 49 30	HS0810+2554	10 54 28	49.6	243.2	2.7		36.5	-16	4522	No stop
22 53 00	---	10 57 59	49.1	244.1	2.7		36.8	194	4549	22 49 31
22 53 30	J0813+2435	10 58 29	48.2	243.2	2.7		36.1	14	4549	22 53 30
22 55 00	=0810+247	10 59 59	48.0	243.6	2.7		36.2	90	4560	22 53 31
22 55 00	HS0810+2554	10 59 59	48.9	244.7	2.8		37.0	-16	4560	No stop
22 58 30	---	11 03 29	48.4	245.6	2.8		37.4	194	4587	22 55 01
22 58 30	J0813+2435	11 03 29	47.5	244.5	2.8		36.6	-16	4587	No stop
23 00 00	=0810+247	11 05 00	47.3	244.9	2.8		36.7	74	4599	22 58 31
23 00 00	HS0810+2554	11 05 00	48.2	246.0	2.8		37.5	-16	4599	No stop
23 03 30	---	11 08 30	47.7	247.0	2.9		37.8	194	4626	23 00 01
23 04 00	J0813+2435	11 09 00	46.8	246.0	2.9		37.1	14	4626	23 04 00
23 05 30	=0810+247	11 10 31	46.6	246.4	2.9		37.2	90	4637	23 04 01
23 05 30	HS0810+2554	11 10 31	47.4	247.5	2.9		38.0	-16	4637	No stop
23 09 00	---	11 14 01	46.9	248.4	3.0		38.3	194	4665	23 05 31

Schedule for TORUN (Code Tr)

Page 18

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Fri	4 Mar 2022	Day	63	---					
23 09 00	J0813+2435	11 14 01	46.1	247.3	3.0		37.5	-16	4665	No stop
23 10 30	=0810+247	11 15 31	45.9	247.7	3.0		37.6	74	4676	23 09 01
23 10 30	HS0810+2554	11 15 31	46.7	248.8	3.0		38.4	-16	4676	No stop
23 14 00	---	11 19 02	46.2	249.7	3.1		38.7	194	4703	23 10 31
23 14 30	J0813+2435	11 19 32	45.3	248.7	3.1		38.0	14	4703	23 14 30
23 16 00	=0810+247	11 21 02	45.1	249.1	3.1		38.1	90	4715	23 14 31
23 16 00	HS0810+2554	11 21 02	46.0	250.2	3.1		38.8	-16	4715	No stop
23 19 30	---	11 24 33	45.5	251.1	3.2		39.1	194	4742	23 16 01
23 19 30	J0813+2435	11 24 33	44.6	250.0	3.2		38.3	-16	4742	No stop
23 21 00	=0810+247	11 26 03	44.4	250.4	3.2		38.4	74	4753	23 19 31
23 21 00	HS0810+2554	11 26 03	45.2	251.5	3.2		39.2	-16	4753	No stop
23 24 30	---	11 29 34	44.7	252.3	3.2		39.4	194	4780	23 21 01
23 25 00	J0813+2435	11 30 04	43.8	251.4	3.2		38.7	14	4780	23 25 00
23 26 30	=0810+247	11 31 34	43.6	251.7	3.3		38.8	90	4792	23 25 01
23 26 30	HS0810+2554	11 31 34	44.5	252.8	3.3		39.5	-16	4792	No stop
23 30 00	---	11 35 05	43.9	253.7	3.3		39.7	194	4819	23 26 31
23 30 00	J0813+2435	11 35 05	43.1	252.6	3.3		39.0	-16	4819	No stop
23 31 30	=0810+247	11 36 35	42.9	253.0	3.4		39.1	74	4831	23 30 01
23 31 30	HS0810+2554	11 36 35	43.7	254.0	3.4		39.8	-15	4831	No stop
23 35 00	---	11 40 05	43.2	254.9	3.4		40.0	195	4858	23 31 31
23 35 30	J0813+2435	11 40 36	42.3	253.9	3.4		39.4	14	4858	23 35 30
23 37 00	=0810+247	11 42 06	42.1	254.3	3.4		39.4	90	4869	23 35 31
23 37 00	HS0810+2554	11 42 06	42.9	255.3	3.5		40.1	-15	4869	No stop
23 40 30	---	11 45 36	42.4	256.2	3.5		40.3	195	4896	23 37 01
23 40 30	J0813+2435	11 45 36	41.6	255.1	3.5		39.6	-16	4896	No stop
23 42 00	=0810+247	11 47 07	41.4	255.5	3.5		39.7	74	4908	23 40 31
23 42 00	HS0810+2554	11 47 07	42.2	256.5	3.5		40.4	-15	4908	No stop
23 45 30	---	11 50 37	41.7	257.3	3.6		40.5	195	4935	23 42 01
23 46 00	J0813+2435	11 51 07	40.8	256.4	3.6		39.9	14	4935	23 46 00
23 47 30	=0810+247	11 52 38	40.6	256.7	3.6		40.0	90	4947	23 46 01

Schedule for TORUN (Code Tr)

Page 19

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Fri 4 Mar 2022 Day 63 ---										
23 47 30	HS0810+2554	11 52 38	41.4	257.8	3.6		40.6	-15	4947	No stop
23 51 00	---	11 56 08	40.9	258.6	3.7		40.8	195	4974	23 47 31
23 51 00	J0813+2435	11 56 08	40.0	257.5	3.7		40.1	-16	4974	No stop
23 52 30	=0810+247	11 57 38	39.8	257.9	3.7		40.2	74	4985	23 51 01
23 52 30	HS0810+2554	11 57 38	40.7	258.9	3.7		40.8	-15	4985	No stop
23 56 00	---	12 01 09	40.1	259.7	3.8		41.0	195	5012	23 52 31
23 56 30	J0813+2435	12 01 39	39.2	258.8	3.8		40.3	14	5012	23 56 30
23 58 00	=0810+247	12 03 09	39.0	259.1	3.8		40.4	90	5024	23 56 31
--- Start: Fri 4 Mar 2022 Day 63 -- Stop: Sat 5 Mar 2022 Day 64 ---										
23 58 00	HS0810+2554	12 03 09	39.8	260.1	3.8		41.0	-15	5024	No stop
00 01 30	---	12 06 40	39.3	260.9	3.9		41.1	195	5051	23 58 01
00 01 30	J0813+2435	12 06 40	38.5	259.9	3.9		40.5	-16	5051	No stop
00 03 00	=0810+247	12 08 10	38.3	260.2	3.9		40.6	74	5063	00 01 31
00 03 00	HS0810+2554	12 08 10	39.1	261.2	3.9		41.2	-15	5063	No stop
00 06 30	---	12 11 41	38.6	262.0	3.9		41.3	195	5090	00 03 01
00 07 00	J0813+2435	12 12 11	37.7	261.1	4.0		40.7	14	5090	00 07 00
00 08 30	=0810+247	12 13 41	37.5	261.4	4.0		40.7	90	5101	00 07 01
00 08 30	HS0810+2554	12 13 41	38.3	262.4	4.0		41.3	-15	5101	No stop
00 12 00	---	12 17 12	37.8	263.2	4.0		41.4	195	5128	00 08 31
00 12 00	J0813+2435	12 17 12	36.9	262.2	4.0		40.8	-16	5128	No stop
00 13 30	=0810+247	12 18 42	36.7	262.5	4.1		40.9	74	5140	00 12 01
00 13 30	HS0810+2554	12 18 42	37.5	263.5	4.1		41.5	-15	5140	No stop
00 17 00	---	12 22 12	37.0	264.3	4.1		41.5	195	5167	00 13 31
00 17 30	J0813+2435	12 22 42	36.1	263.4	4.1		41.0	14	5167	00 17 30
00 19 00	=0810+247	12 24 13	35.9	263.7	4.2		41.0	90	5179	00 17 31
00 19 00	HS0810+2554	12 24 13	36.7	264.7	4.2		41.6	-15	5179	No stop
00 22 30	---	12 27 43	36.2	265.4	4.2		41.6	195	5206	00 19 01
00 22 30	J0813+2435	12 27 43	35.4	264.4	4.2		41.1	-16	5206	No stop
00 24 00	=0810+247	12 29 14	35.1	264.7	4.2		41.1	74	5217	00 22 31

Schedule for TORUN (Code Tr)

Page 20

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	5 Mar 2022	Day	64	---					
00 24 00	HS0810+2554	12 29 14	36.0	265.7	4.2		41.6	-15	5217	No stop
00 27 30	---	12 32 44	35.4	266.5	4.3		41.7	195	5244	00 24 01
00 28 00	J0813+2435	12 33 14	34.5	265.6	4.3		41.2	14	5244	00 28 00
00 29 30	=0810+247	12 34 44	34.3	265.9	4.3		41.2	90	5256	00 28 01
00 29 30	HS0810+2554	12 34 44	35.1	266.9	4.3		41.7	-15	5256	No stop
00 33 00	---	12 38 15	34.6	267.6	4.4		41.7	195	5283	00 29 31
00 33 00	J0813+2435	12 38 15	33.8	266.6	4.4		41.2	-16	5283	No stop
00 34 30	=0810+247	12 39 45	33.6	266.9	4.4		41.2	74	5294	00 33 01
00 34 30	HS0810+2554	12 39 45	34.4	267.9	4.4		41.7	-15	5294	No stop
00 38 00	---	12 43 16	33.9	268.6	4.5		41.8	195	5322	00 34 31
00 38 30	J0813+2435	12 43 46	33.0	267.7	4.5		41.3	14	5322	00 38 30
00 40 00	=0810+247	12 45 16	32.7	268.1	4.5		41.3	90	5333	00 38 31
00 40 00	HS0810+2554	12 45 16	33.6	269.0	4.5		41.8	-15	5333	No stop
00 43 30	---	12 48 47	33.0	269.7	4.6		41.8	195	5360	00 40 01
00 43 30	J0813+2435	12 48 47	32.2	268.8	4.6		41.3	-16	5360	No stop
00 45 00	=0810+247	12 50 17	32.0	269.1	4.6		41.3	74	5372	00 43 31
00 45 00	HS0810+2554	12 50 17	32.8	270.0	4.6		41.8	-15	5372	No stop
00 48 30	---	12 53 48	32.3	270.7	4.6		41.8	195	5399	00 45 01
00 49 00	J0813+2435	12 54 18	31.4	269.9	4.7		41.3	14	5399	00 49 00
00 50 30	=0810+247	12 55 48	31.2	270.2	4.7		41.3	90	5410	00 49 01
00 50 30	HS0810+2554	12 55 48	32.0	271.1	4.7		41.8	-15	5410	No stop
00 54 00	---	12 59 18	31.5	271.8	4.7		41.8	195	5437	00 50 31
00 54 00	J0813+2435	12 59 18	30.6	270.9	4.7		41.3	-16	5437	No stop
00 55 30	=0810+247	13 00 49	30.4	271.2	4.8		41.3	74	5449	00 54 01
00 55 30	HS0810+2554	13 00 49	31.2	272.1	4.8		41.7	-15	5449	No stop
00 59 00	---	13 04 19	30.7	272.8	4.8		41.7	195	5476	00 55 31
00 59 30	J0813+2435	13 04 49	29.8	272.0	4.8		41.3	14	5476	00 59 30
01 01 00	=0810+247	13 06 20	29.6	272.3	4.9		41.3	90	5488	00 59 31
01 01 00	HS0810+2554	13 06 20	30.4	273.2	4.9		41.7	-15	5488	No stop
01 04 30	---	13 09 50	29.9	273.9	4.9		41.7	195	5515	01 01 01

Schedule for TORUN (Code Tr)

Page 21

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	5 Mar 2022	Day	64	---					
01 04 30	J0813+2435	13 09 50	29.0	272.9	4.9		41.2	-16	5515	No stop
01 06 00	=0810+247	13 11 20	28.8	273.2	4.9		41.2	74	5526	01 04 31
01 06 00	HS0810+2554	13 11 20	29.6	274.2	4.9		41.6	-15	5526	No stop
01 09 30	---	13 14 51	29.1	274.8	5.0		41.6	195	5553	01 06 01
01 10 00	J0813+2435	13 15 21	28.2	274.0	5.0		41.2	14	5553	01 10 00
01 11 30	=0810+247	13 16 51	28.0	274.3	5.0		41.2	90	5565	01 10 01
01 11 30	HS0810+2554	13 16 51	28.8	275.2	5.0		41.6	-15	5565	No stop
01 15 00	---	13 20 22	28.3	275.9	5.1		41.5	195	5592	01 11 31
01 15 00	J0813+2435	13 20 22	27.5	275.0	5.1		41.1	-16	5592	No stop
01 16 30	=0810+247	13 21 52	27.2	275.3	5.1		41.1	74	5604	01 15 01
01 16 30	HS0810+2554	13 21 52	28.1	276.2	5.1		41.5	-15	5604	No stop
01 20 00	---	13 25 23	27.5	276.9	5.2		41.4	195	5631	01 16 31
01 20 30	J0813+2435	13 25 53	26.6	276.1	5.2		41.0	14	5631	01 20 30
01 22 00	=0810+247	13 27 23	26.4	276.3	5.2		41.0	90	5642	01 20 31
01 22 00	HS0810+2554	13 27 23	27.3	277.2	5.2		41.4	-15	5642	No stop
01 25 30	---	13 30 54	26.7	277.9	5.3		41.3	195	5669	01 22 01
01 25 30	J0813+2435	13 30 54	25.9	277.0	5.3		40.9	-16	5669	No stop
01 27 00	=0810+247	13 32 24	25.7	277.3	5.3		40.9	74	5681	01 25 31
01 27 00	HS0810+2554	13 32 24	26.5	278.2	5.3		41.3	-15	5681	No stop
01 30 30	---	13 35 54	26.0	278.9	5.4		41.2	195	5708	01 27 01
01 31 00	J0813+2435	13 36 25	25.1	278.1	5.4		40.8	14	5708	01 31 00
01 32 30	=0810+247	13 37 55	24.9	278.3	5.4		40.8	90	5720	01 31 01
01 32 30	HS0810+2554	13 37 55	25.7	279.2	5.4		41.1	-15	5720	No stop
01 36 00	---	13 41 25	25.2	279.9	5.4		41.0	195	5747	01 32 31
01 36 00	J0813+2435	13 41 25	24.3	279.0	5.4		40.7	-16	5747	No stop
01 37 30	=0810+247	13 42 56	24.1	279.3	5.5		40.6	74	5758	01 36 01
01 37 30	HS0810+2554	13 42 56	24.9	280.2	5.5		41.0	-15	5758	No stop
01 41 00	---	13 46 26	24.4	280.8	5.5		40.9	195	5785	01 37 31
01 41 30	J0813+2435	13 46 56	23.5	280.1	5.5		40.5	14	5785	01 41 30
01 43 00	=0810+247	13 48 26	23.3	280.3	5.6		40.5	90	5797	01 41 31

Schedule for TORUN (Code Tr)

Page 22

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	5 Mar 2022	Day	64	---					
01 43 00	HS0810+2554	13 48 26	24.1	281.2	5.6		40.8	-15	5797	No stop
01 46 30	---	13 51 57	23.6	281.9	5.6		40.7	195	5824	01 43 01
01 46 30	J0813+2435	13 51 57	22.8	281.0	5.6		40.4	-16	5824	No stop
01 48 00	=0810+247	13 53 27	22.6	281.3	5.6		40.3	74	5836	01 46 31
01 48 00	HS0810+2554	13 53 27	23.4	282.1	5.6		40.6	-15	5836	No stop
01 51 30	---	13 56 58	22.9	282.8	5.7		40.5	195	5863	01 48 01
01 52 00	J0813+2435	13 57 28	22.0	282.0	5.7		40.2	14	5863	01 52 00
01 53 30	=0810+247	13 58 58	21.7	282.3	5.7		40.2	90	5874	01 52 01
01 53 30	HS0810+2554	13 58 58	22.6	283.2	5.7		40.5	-15	5874	No stop
01 57 00	---	14 02 29	22.1	283.8	5.8		40.3	195	5901	01 53 31
01 57 00	J0813+2435	14 02 29	21.2	283.0	5.8		40.0	-16	5901	No stop
01 58 30	=0810+247	14 03 59	21.0	283.3	5.8		40.0	74	5913	01 57 01
01 58 30	HS0810+2554	14 03 59	21.9	284.1	5.8		40.3	-15	5913	No stop
02 02 00	---	14 07 30	21.3	284.7	5.9		40.1	195	5940	01 58 31
02 02 30	J0813+2435	14 08 00	20.4	284.0	5.9		39.8	14	5940	02 02 30
02 04 00	=0810+247	14 09 30	20.2	284.3	5.9		39.8	90	5951	02 02 31
02 04 00	HS0810+2554	14 09 30	21.1	285.1	5.9		40.0	-15	5951	No stop
02 07 30	---	14 13 01	20.5	285.8	6.0		39.9	195	5979	02 04 01
02 07 30	J0813+2435	14 13 01	19.7	284.9	6.0		39.6	-16	5979	No stop
02 09 00	=0810+247	14 14 31	19.5	285.2	6.0		39.6	74	5990	02 07 31
02 09 00	HS0810+2554	14 14 31	20.3	286.0	6.0		39.8	-15	5990	No stop
02 12 30	---	14 18 01	19.8	286.7	6.1		39.7	195	6017	02 09 01
02 13 00	J0813+2435	14 18 31	18.9	286.0	6.1		39.4	14	6017	02 13 00
02 14 30	=0810+247	14 20 02	18.7	286.2	6.1		39.3	90	6029	02 13 01
02 14 30	HS0810+2554	14 20 02	19.5	287.1	6.1		39.6	-16	6029	No stop
02 18 00	---	14 23 32	19.0	287.7	6.1		39.4	194	6056	02 14 31
02 18 00	J0813+2435	14 23 32	18.2	286.9	6.1		39.2	-16	6056	No stop
02 19 30	=0810+247	14 25 02	18.0	287.2	6.2		39.1	74	6067	02 18 01
02 19 30	HS0810+2554	14 25 02	18.8	288.0	6.2		39.3	-16	6067	No stop
02 23 00	---	14 28 33	18.3	288.6	6.2		39.2	194	6094	02 19 31

Schedule for TORUN (Code Tr)

Page 23

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	5 Mar 2022	Day	64	---					
02 23 30	J0813+2435	14 29 03	17.4	287.9	6.2		38.9	14	6094	02 23 30
02 25 00	=0810+247	14 30 33	17.2	288.2	6.3		38.8	90	6106	02 23 31
02 25 00	HS0810+2554	14 30 33	18.0	289.0	6.3		39.1	-16	6106	No stop
02 28 30	---	14 34 04	17.5	289.6	6.3		38.9	194	6133	02 25 01
02 28 30	J0813+2435	14 34 04	16.7	288.8	6.3		38.7	-16	6133	No stop
02 30 00	=0810+247	14 35 34	16.5	289.1	6.3		38.6	74	6145	02 28 31
02 30 00	HS0810+2554	14 35 34	17.3	289.9	6.3		38.8	-16	6145	No stop
02 33 30	---	14 39 05	16.8	290.6	6.4		38.6	194	6172	02 30 01
02 34 00	J0813+2435	14 39 35	15.9	289.9	6.4		38.4	14	6172	02 34 00
02 35 30	=0810+247	14 41 05	15.7	290.1	6.4		38.3	90	6183	02 34 01
02 35 30	HS0810+2554	14 41 05	16.5	290.9	6.4		38.5	-16	6183	No stop
02 39 00	---	14 44 36	16.1	291.6	6.5		38.3	194	6210	02 35 31
02 39 00	J0813+2435	14 44 36	15.2	290.8	6.5		38.1	-16	6210	No stop
02 40 30	=0810+247	14 46 06	15.0	291.1	6.5		38.0	74	6222	02 39 01
02 40 30	HS0810+2554	14 46 06	15.8	291.9	6.5		38.2	-16	6222	No stop
02 44 00	---	14 49 37	15.4	292.5	6.6		38.0	194	6249	02 40 31
02 44 30	J0813+2435	14 50 07	14.4	291.8	6.6		37.8	14	6249	02 44 30
02 46 00	=0810+247	14 51 37	14.2	292.1	6.6		37.7	90	6261	02 44 31
02 46 00	HS0810+2554	14 51 37	15.1	292.9	6.6		37.9	-16	6261	No stop
02 49 30	---	14 55 07	14.6	293.5	6.7		37.7	194	6288	02 46 01
02 49 30	J0813+2435	14 55 07	13.7	292.8	6.7		37.5	-16	6288	No stop
02 51 00	=0810+247	14 56 38	13.5	293.0	6.7		37.4	74	6299	02 49 31
02 51 00	HS0810+2554	14 56 38	14.4	293.8	6.7		37.6	-16	6299	No stop
02 54 30	---	15 00 08	13.9	294.4	6.8		37.3	194	6326	02 51 01
02 55 00	J0813+2435	15 00 38	13.0	293.8	6.8		37.2	14	6326	02 55 00
02 56 30	=0810+247	15 02 09	12.8	294.1	6.8		37.1	90	6338	02 55 01
02 56 30	HS0810+2554	15 02 09	13.6	294.8	6.8		37.2	-16	6338	No stop
03 00 00	---	15 05 39	13.2	295.5	6.8		37.0	194	6365	02 56 31
03 00 00	J0813+2435	15 05 39	12.3	294.7	6.8		36.8	-16	6365	No stop
03 01 30	=0810+247	15 07 09	12.1	295.0	6.9		36.7	74	6377	03 00 01

Schedule for TORUN (Code Tr)

Page 24

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sat	5 Mar 2022	Day	64	---					
03 01 30	HS0810+2554	15 07 09	13.0	295.7	6.9		36.9	-16	6377	No stop
03 05 00	---	15 10 40	12.5	296.4	6.9		36.6	194	6404	03 01 31
03 05 30	J0813+2435	15 11 10	11.5	295.7	6.9		36.5	14	6404	03 05 30
03 07 00	=0810+247	15 12 40	11.3	296.0	7.0		36.4	90	6415	03 05 31
03 07 00	HS0810+2554	15 12 40	12.2	296.8	7.0		36.5	-16	6415	No stop
03 10 30	---	15 16 11	11.7	297.4	7.0		36.3	194	6442	03 07 01
03 10 30	J0813+2435	15 16 11	10.8	296.7	7.0		36.1	-16	6442	No stop
03 12 00	=0810+247	15 17 41	10.6	297.0	7.0		36.0	74	6454	03 10 31
03 12 00	HS0810+2554	15 17 41	11.5	297.7	7.0		36.2	-16	6454	No stop
03 15 30	---	15 21 12	11.1	298.3	7.1		35.9	194	6481	03 12 01
03 16 00	J0813+2435	15 21 42	10.1	297.7	7.1		35.8	14	6481	03 16 00
03 17 30	=0810+247	15 23 12	9.9	298.0	7.1		35.7	90	6493	03 16 01
03 17 30	HS0810+2554	15 23 12	10.8	298.7	7.1		35.8	-16	6493	No stop
03 21 00	---	15 26 43	10.4	299.4	7.2		35.5	194	6520	03 17 31
03 21 00	J0813+2435	15 26 43	9.4	298.6	7.2		35.4	-16	6520	No stop
03 22 30	=0810+247	15 28 13	9.2	298.9	7.2		35.3	74	6531	03 21 01
03 22 30	HS0810+2554	15 28 13	10.2	299.7	7.2		35.4	-16	6531	No stop
03 26 00	---	15 31 43	9.7	300.3	7.3		35.1	194	6558	03 22 31
03 26 30	J0813+2435	15 32 13	8.7	299.7	7.3		35.0	14	6558	03 26 30
03 28 00	=0810+247	15 33 44	8.5	300.0	7.3		34.9	90	6570	03 26 31
03 28 00	HS0810+2554	15 33 44	9.4	300.7	7.3		35.0	-16	6570	No stop
03 31 30	---	15 37 14	9.0	301.3	7.4		34.7	194	6597	03 28 01
03 31 30	J0813+2435	15 37 14	8.1	300.6	7.4		34.6	-16	6597	No stop
03 33 00	=0810+247	15 38 45	7.9	300.9	7.4		34.5	74	6608	03 31 31
03 33 00	HS0810+2554	15 38 45	8.8	301.6	7.4		34.6	-16	6608	No stop
03 36 30	---	15 42 15	8.3	302.3	7.5		34.3	194	6635	03 33 01
03 37 00	J0813+2435	15 42 45	7.4	301.7	7.5		34.2	14	6635	03 37 00
03 38 30	=0810+247	15 44 15	7.2	302.0	7.5		34.1	90	6647	03 37 01
03 38 30	HS0810+2554	15 44 15	8.1	302.7	7.5		34.1	-16	6647	No stop
03 42 00	---	15 47 46	7.7	303.3	7.5		33.8	194	6674	03 38 31

Schedule for TORUN (Code Tr)

Page 25

EH040B

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

```
-----
Start UT  Source          Start / Stop          Early   Disk   TPStart
Stop UT          LST      EL   AZ   HA  UP   ParA  Dwell  GBytes  SYNC
-----
```

--- Sat 5 Mar 2022 Day 64 ---

```
03 43 30 HS0810+2554 15 49 16 7.5 303.6 7.6      33.7   84    6674  03 43 30
03 47 00 ---          15 52 47 7.0 304.3 7.6      33.4  210    6701  03 43 31
```

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024_16

```
Setup group: 13          Station: TORUN          Total bit rate: 1024
Format: VDIF           Bits per sample: 2     Sample rate: 32.000
Number of channels: 16  DBE type: DBBC_DDC  Speedup factor: 1.00
```

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF SB =	L	L	L	L	L	L	L	L	L
	L	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
BBC =	1	9	1	9	2	10	2	10	10
	3	11	3	11	4	12	4	12	12
BBC SB=	U	U	L	L	U	U	L	L	L
	U	U	L	L	U	U	L	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1	B1
	A1	B1	A1	B1	A1	B1	A1	B1	B1

The following frequency sets based on these setups were used.

Frequency Set: 9 Setup file default. Used with PCAL = off

LO sum=	1610.49	1610.49	1610.49	1610.49	1642.49	1642.49	1642.49	1642.49
	1674.49	1674.49	1674.49	1674.49	1706.49	1706.49	1706.49	1706.49
BBC fr=	689.51	689.51	689.51	689.51	657.51	657.51	657.51	657.51
	625.51	625.51	625.51	625.51	593.51	593.51	593.51	593.51
Bandwd=	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

Matching frequency sets: 9

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(Date)	Error (mas)
* HS0810+2554	08 10 30.433497 * 08 13 31.292599	08 14 51.628675	0.00
	25 54 08.83253 * 25 45 03.06101	25 41 03.21061	0.00
0810+247	08 10 47.674506 * 08 13 47.137770	08 15 06.852764	0.13
* J0813+2435	24 45 05.93412 * 24 35 59.15009	24 31 58.59569	0.17
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc		
	GSFC 2016a X/S astro solution, 147 observations.		
4C39.25	09 23 55.319216 * 09 27 03.013937	09 28 26.780418	0.31
* J0927+3902	39 15 23.56644 * 39 02 20.85185	38 56 36.58201	0.16
0923+392	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc		
J0927+39	GSFC 2016a X/S astro solution, 250526 observations.		
2134+00	21 34 05.207370 * 21 36 38.586305	21 37 44.502335	0.72
* J2136+0041	00 28 25.07986 * 00 41 54.21269	00 47 39.48855	1.22
2134+004	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc		
J2136+00	GSFC 2016a X/S astro solution, 28569 observations.		

eb091atr

EB091 FIRST EPOCH ROSS867 ASTROMETRY
PI: Paul Boven

Address: JIVE

Schedule for TORUN (Code Tr) Page 2
EB091 first epoch Ross867 astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
Early: Seconds between end of slew and start. Dwell: On source seconds.
Disk: GBytes recorded to this point.
TPStart: Recording start time. Frequencies are L0 sum (band edge).
SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 6 Mar 2022 Day 65 ---										
Next scan frequencies: 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49										
Next BBC frequencies: 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51										
Next scan bandwidths: 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00										

00 30 00	0Q208	12 39 11	60.3	137.8	-1.5		-27.3	0	0	00 30 00
00 39 00	---	12 48 13	61.2	141.4	-1.3		-25.2	540	70	00 30 01
00 39 00	J1722+2458	12 48 13	32.2	90.5	-4.6		-41.5	-121	70	No stop
00 44 00	=1720+250	12 53 13	33.0	91.5	-4.5		-41.5	179	108	00 39 01
00 44 30	J1722+2458	12 53 43	33.1	91.6	-4.5		-41.5	24	108	00 44 30
00 45 40	=1720+250	12 54 54	33.2	91.9	-4.5		-41.4	70	117	00 44 31
00 45 40	J1722+2815	12 54 54	35.7	89.3	-4.5		-43.0	-23	117	No stop
00 47 20	=1720+282	12 56 34	35.9	89.6	-4.4		-43.0	77	130	00 45 41
00 47 20	J1716+2616	12 56 34	35.4	92.4	-4.4		-42.0	-20	130	No stop
00 49 00	---	12 58 14	35.6	92.7	-4.3		-42.0	80	143	00 47 21
00 49 00	ROSS867	12 58 14	35.3	91.9	-4.4		-42.1	-13	143	No stop
00 54 00	---	13 03 15	36.1	93.0	-4.3		-42.1	287	182	00 49 01
00 54 30	J1722+2458	13 03 45	34.6	93.7	-4.3		-41.4	11	182	00 54 30
00 55 40	=1720+250	13 04 55	34.7	93.9	-4.3		-41.4	70	191	00 54 31
00 55 40	J1722+2815	13 04 55	37.2	91.3	-4.3		-42.9	-23	191	No stop
00 57 20	=1720+282	13 06 36	37.5	91.6	-4.3		-42.9	77	204	00 55 41
00 57 20	J1716+2616	13 06 36	36.9	94.5	-4.2		-41.9	-20	204	No stop
00 59 00	---	13 08 16	37.1	94.8	-4.2		-41.8	80	216	00 57 21
00 59 00	ROSS867	13 08 16	36.8	94.0	-4.2		-42.0	-13	216	No stop
01 04 00	---	13 13 17	37.6	95.1	-4.1		-41.9	287	255	00 59 01
01 04 30	J1722+2458	13 13 47	36.1	95.8	-4.2		-41.2	11	255	01 04 30
01 05 40	=1720+250	13 14 57	36.2	96.0	-4.1		-41.2	70	264	01 04 31
01 05 40	J1722+2815	13 14 57	38.7	93.3	-4.1		-42.9	-23	264	No stop
01 07 20	=1720+282	13 16 37	39.0	93.7	-4.1		-42.9	77	277	01 05 41
01 07 20	J1716+2616	13 16 37	38.4	96.6	-4.0		-41.7	-20	277	No stop
01 09 00	---	13 18 17	38.6	97.0	-4.0		-41.6	80	290	01 07 21

Schedule for TORUN (Code Tr)

Page 3

EB091 first epoch Ross867 astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun 6 Mar 2022	Day	65	---						
01 09 00	ROSS867	13 18 17	38.3	96.1	-4.0		-41.8	-13	290	No stop
01 14 00	---	13 23 18	39.1	97.2	-4.0		-41.7	287	328	01 09 01
01 14 30	J1722+2458	13 23 48	37.6	97.9	-4.0		-41.0	11	328	01 14 30
01 15 40	=1720+250	13 24 59	37.7	98.2	-4.0		-41.0	70	338	01 14 31
01 15 40	J1722+2815	13 24 59	40.2	95.4	-4.0		-42.7	-23	338	No stop
01 17 20	=1720+282	13 26 39	40.5	95.8	-3.9		-42.7	77	350	01 15 41
01 17 20	J1716+2616	13 26 39	39.8	98.8	-3.9		-41.4	-21	350	No stop
01 19 00	---	13 28 19	40.1	99.1	-3.8		-41.4	79	363	01 17 21
01 19 00	ROSS867	13 28 19	39.8	98.3	-3.9		-41.6	-13	363	No stop
01 24 00	---	13 33 20	40.6	99.4	-3.8		-41.4	287	402	01 19 01
01 24 30	J1722+2458	13 33 50	39.0	100.1	-3.8		-40.7	11	402	01 24 30
01 25 40	=1720+250	13 35 00	39.2	100.4	-3.8		-40.7	70	411	01 24 31
01 25 40	J1722+2815	13 35 00	41.7	97.6	-3.8		-42.5	-23	411	No stop
01 27 20	=1720+282	13 36 40	41.9	97.9	-3.8		-42.5	77	424	01 25 41
01 27 20	J1716+2616	13 36 40	41.3	101.0	-3.7		-41.1	-21	424	No stop
01 29 00	---	13 38 21	41.6	101.4	-3.7		-41.0	79	437	01 27 21
01 29 00	ROSS867	13 38 21	41.3	100.5	-3.7		-41.3	-13	437	No stop
01 34 00	---	13 43 22	42.0	101.6	-3.6		-41.1	287	475	01 29 01
01 34 30	J1722+2458	13 43 52	40.5	102.4	-3.7		-40.3	11	475	01 34 30
01 35 40	=1720+250	13 45 02	40.7	102.6	-3.6		-40.3	70	484	01 34 31
01 35 40	J1722+2815	13 45 02	43.2	99.8	-3.6		-42.2	-23	484	No stop
01 37 20	=1720+282	13 46 42	43.4	100.2	-3.6		-42.1	77	497	01 35 41
01 37 20	J1716+2616	13 46 42	42.8	103.3	-3.5		-40.7	-21	497	No stop
01 39 00	---	13 48 22	43.0	103.7	-3.5		-40.6	79	510	01 37 21
01 39 00	ROSS867	13 48 22	42.8	102.8	-3.5		-40.9	-13	510	No stop
01 44 00	---	13 53 23	43.5	103.9	-3.5		-40.6	287	549	01 39 01
01 44 30	J1722+2458	13 53 53	42.0	104.7	-3.5		-39.8	11	549	01 44 30
01 45 40	=1720+250	13 55 03	42.2	105.0	-3.5		-39.8	70	558	01 44 31
01 45 40	J1722+2815	13 55 03	44.7	102.1	-3.5		-41.8	-23	558	No stop
01 47 20	=1720+282	13 56 44	44.9	102.4	-3.4		-41.7	77	571	01 45 41
01 47 20	J1716+2616	13 56 44	44.3	105.6	-3.4		-40.1	-21	571	No stop
01 49 00	---	13 58 24	44.5	106.0	-3.3		-40.0	79	584	01 47 21

Schedule for TORUN (Code Tr)

Page 4

EB091 first epoch Ross867 astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 6 Mar 2022 Day 65 ---										
01 49 00	3C345	13 58 24	59.1	98.7	-2.8		-50.6	-69	584	No stop
01 57 00	---	14 06 25	60.3	100.6	-2.6		-50.2	411	645	01 49 01
01 57 15	3C345	14 06 40	60.3	100.7	-2.6		-50.1	9	645	01 57 15
01 58 00	---	14 07 26	60.4	100.9	-2.6		-50.1	45	651	01 57 16
01 58 00	J1722+2458	14 07 26	43.9	107.9	-3.3		-39.1	-75	651	No stop
02 00 00	=1720+250	14 09 26	44.2	108.4	-3.2		-38.9	45	667	01 58 01
02 00 30	J1722+2458	14 09 56	44.3	108.5	-3.2		-38.9	24	667	02 00 30
02 01 40	=1720+250	14 11 06	44.5	108.8	-3.2		-38.8	70	676	02 00 31
02 01 40	J1722+2815	14 11 06	47.0	105.9	-3.2		-41.0	-24	676	No stop
02 03 20	=1720+282	14 12 46	47.2	106.3	-3.2		-40.9	76	689	02 01 41
02 03 20	J1716+2616	14 12 46	46.6	109.6	-3.1		-39.1	-21	689	No stop
02 05 00	---	14 14 27	46.8	110.0	-3.1		-39.0	79	701	02 03 21
02 05 00	ROSS867	14 14 27	46.5	109.0	-3.1		-39.4	-14	701	No stop
02 10 00	---	14 19 27	47.3	110.3	-3.0		-39.0	286	740	02 05 01
02 10 30	J1722+2458	14 19 58	45.7	111.0	-3.1		-38.2	10	740	02 10 30
02 11 40	=1720+250	14 21 08	45.9	111.3	-3.0		-38.1	70	749	02 10 31
02 11 40	J1722+2815	14 21 08	48.4	108.4	-3.0		-40.3	-24	749	No stop
02 13 20	=1720+282	14 22 48	48.7	108.8	-3.0		-40.2	76	762	02 11 41
02 13 20	J1716+2616	14 22 48	48.0	112.2	-2.9		-38.3	-22	762	No stop
02 15 00	---	14 24 28	48.2	112.6	-2.9		-38.2	78	775	02 13 21
02 15 00	ROSS867	14 24 28	48.0	111.6	-2.9		-38.6	-14	775	No stop
02 20 00	---	14 29 29	48.7	112.9	-2.9		-38.2	286	813	02 15 01
02 20 30	J1722+2458	14 29 59	47.1	113.6	-2.9		-37.3	10	813	02 20 30
02 21 40	=1720+250	14 31 09	47.3	114.0	-2.9		-37.2	70	823	02 20 31
02 21 40	J1722+2815	14 31 09	49.9	110.9	-2.9		-39.5	-24	823	No stop
02 23 20	=1720+282	14 32 50	50.1	111.4	-2.8		-39.4	76	835	02 21 41
02 23 20	J1716+2616	14 32 50	49.3	114.9	-2.7		-37.4	-22	835	No stop
02 25 00	---	14 34 30	49.6	115.3	-2.7		-37.2	78	848	02 23 21
02 25 00	ROSS867	14 34 30	49.3	114.3	-2.8		-37.7	-14	848	No stop
02 30 00	---	14 39 31	50.0	115.7	-2.7		-37.2	286	887	02 25 01

Schedule for TORUN (Code Tr)

Page 5

EB091 first epoch Ross867 astrometry

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SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
02 30 30	J1722+2458	14 40 01	48.5	116.4	-2.7		-36.4	10	887	02 30 30
02 31 40	=1720+250	14 41 11	48.6	116.7	-2.7		-36.3	70	896	02 30 31
02 31 40	J1722+2815	14 41 11	51.3	113.6	-2.7		-38.6	-24	896	No stop
02 33 20	=1720+282	14 42 51	51.5	114.1	-2.7		-38.5	76	909	02 31 41
02 33 20	J1716+2616	14 42 51	50.7	117.7	-2.6		-36.4	-22	909	No stop
02 35 00	---	14 44 32	50.9	118.1	-2.6		-36.2	78	922	02 33 21
02 35 00	ROSS867	14 44 32	50.7	117.1	-2.6		-36.7	-14	922	No stop
02 40 00	---	14 49 32	51.4	118.5	-2.5		-36.1	286	960	02 35 01
02 40 30	J1722+2458	14 50 02	49.8	119.2	-2.6		-35.3	10	960	02 40 30
02 41 40	=1720+250	14 51 13	50.0	119.5	-2.5		-35.2	70	969	02 40 31
02 41 40	J1722+2815	14 51 13	52.6	116.5	-2.5		-37.6	-24	969	No stop
02 43 20	=1720+282	14 52 53	52.8	116.9	-2.5		-37.4	76	982	02 41 41
02 43 20	J1716+2616	14 52 53	52.0	120.6	-2.4		-35.2	-22	982	No stop
02 45 00	---	14 54 33	52.2	121.1	-2.4		-35.0	78	995	02 43 21
02 45 00	ROSS867	14 54 33	52.0	120.0	-2.4		-35.5	-14	995	No stop
02 50 00	---	14 59 34	52.7	121.5	-2.4		-34.9	286	1034	02 45 01
02 50 30	J1722+2458	15 00 04	51.1	122.1	-2.4		-34.1	10	1034	02 50 30
02 51 40	=1720+250	15 01 14	51.2	122.5	-2.4		-34.0	70	1043	02 50 31
02 51 40	J1722+2815	15 01 14	53.9	119.4	-2.4		-36.4	-24	1043	No stop
02 53 20	=1720+282	15 02 55	54.2	119.9	-2.3		-36.2	76	1056	02 51 41
02 53 20	J1716+2616	15 02 55	53.3	123.6	-2.2		-33.9	-22	1056	No stop
02 55 00	---	15 04 35	53.5	124.2	-2.2		-33.6	78	1069	02 53 21
02 55 00	ROSS867	15 04 35	53.3	123.0	-2.3		-34.2	-14	1069	No stop
03 00 00	---	15 09 36	53.9	124.6	-2.2		-33.5	286	1107	02 55 01
03 00 30	J1722+2458	15 10 06	52.3	125.2	-2.2		-32.8	10	1107	03 00 30
03 01 40	=1720+250	15 11 16	52.5	125.5	-2.2		-32.6	70	1116	03 00 31
03 01 40	J1722+2815	15 11 16	55.2	122.5	-2.2		-35.1	-24	1116	No stop
03 03 20	=1720+282	15 12 56	55.4	123.0	-2.2		-34.8	76	1129	03 01 41
03 03 20	J1716+2616	15 12 56	54.5	126.8	-2.1		-32.4	-23	1129	No stop
03 05 00	---	15 14 37	54.7	127.4	-2.1		-32.1	77	1142	03 03 21

Schedule for TORUN (Code Tr)

Page 6

EB091 first epoch Ross867 astrometry

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SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
03 05 00	ROSS867	15 14 37	54.5	126.2	-2.1		-32.8	-15	1142	No stop
03 10 00	---	15 19 37	55.1	127.8	-2.0		-32.0	285	1181	03 05 01
03 10 30	J1722+2458	15 20 07	53.6	128.4	-2.1		-31.3	10	1181	03 10 30
03 11 40	=1720+250	15 21 18	53.7	128.7	-2.0		-31.1	70	1190	03 10 31
03 11 40	J1722+2815	15 21 18	56.5	125.8	-2.0		-33.6	-25	1190	No stop
03 13 20	=1720+282	15 22 58	56.7	126.3	-2.0		-33.3	75	1203	03 11 41
03 13 20	J1716+2616	15 22 58	55.7	130.2	-1.9		-30.8	-23	1203	No stop
03 15 00	---	15 24 38	55.9	130.7	-1.9		-30.5	77	1215	03 13 21
03 15 00	ROSS867	15 24 38	55.7	129.5	-1.9		-31.2	-15	1215	No stop
03 20 00	---	15 29 39	56.3	131.2	-1.9		-30.3	285	1254	03 15 01
03 20 30	J1722+2458	15 30 09	54.7	131.7	-1.9		-29.6	10	1254	03 20 30
03 21 40	=1720+250	15 31 19	54.8	132.1	-1.9		-29.4	70	1263	03 20 31
03 21 40	J1722+2815	15 31 19	57.7	129.2	-1.9		-31.9	-25	1263	No stop
03 23 20	=1720+282	15 33 00	57.9	129.8	-1.8		-31.6	75	1276	03 21 41
03 23 20	J1716+2616	15 33 00	56.8	133.7	-1.7		-29.0	-23	1276	No stop
03 25 00	---	15 34 40	57.0	134.3	-1.7		-28.6	77	1289	03 23 21
03 25 00	ROSS867	15 34 40	56.9	133.0	-1.8		-29.4	-15	1289	No stop
03 30 00	---	15 39 41	57.4	134.8	-1.7		-28.4	285	1327	03 25 01
03 30 30	J1722+2458	15 40 11	55.8	135.2	-1.7		-27.8	10	1327	03 30 30
03 31 40	=1720+250	15 41 21	55.9	135.6	-1.7		-27.6	70	1336	03 30 31
03 31 40	J1722+2815	15 41 21	58.8	132.8	-1.7		-30.0	-25	1336	No stop
03 33 20	=1720+282	15 43 01	59.0	133.4	-1.7		-29.7	75	1349	03 31 41
03 33 20	J1716+2616	15 43 01	57.9	137.4	-1.6		-27.0	-23	1349	No stop
03 35 00	---	15 44 41	58.0	138.0	-1.6		-26.6	77	1362	03 33 21
03 35 00	ROSS867	15 44 41	57.9	136.7	-1.6		-27.4	-15	1362	No stop
03 40 00	---	15 49 42	58.4	138.6	-1.5		-26.4	285	1401	03 35 01
03 40 30	J1722+2458	15 50 12	56.8	138.9	-1.6		-25.8	10	1401	03 40 30
03 41 40	=1720+250	15 51 23	56.9	139.3	-1.5		-25.6	70	1410	03 40 31
03 41 40	J1722+2815	15 51 23	59.9	136.6	-1.5		-27.9	-25	1410	No stop
03 43 20	=1720+282	15 53 03	60.1	137.2	-1.5		-27.6	75	1423	03 41 41

Schedule for TORUN (Code Tr)

Page 7

EB091 first epoch Ross867 astrometry

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Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
03 43 20	J1716+2616	15 53 03	58.8	141.2	-1.4		-24.8	-23	1423	No stop
03 45 00	---	15 54 43	59.0	141.9	-1.4		-24.4	77	1436	03 43 21
03 45 00	ROSS867	15 54 43	58.9	140.5	-1.4		-25.3	-15	1436	No stop
03 50 00	---	15 59 44	59.4	142.5	-1.4		-24.1	285	1474	03 45 01
03 50 30	J1722+2458	16 00 14	57.8	142.7	-1.4		-23.7	10	1474	03 50 30
03 51 40	=1720+250	16 01 24	57.9	143.1	-1.4		-23.4	70	1483	03 50 31
03 51 40	J1722+2815	16 01 24	60.9	140.6	-1.4		-25.7	-25	1483	No stop
03 53 20	=1720+282	16 03 04	61.0	141.2	-1.3		-25.3	75	1496	03 51 41
03 53 20	J1716+2616	16 03 04	59.7	145.3	-1.2		-22.4	-23	1496	No stop
03 55 00	---	16 04 45	59.9	145.9	-1.2		-22.0	77	1509	03 53 21
03 55 00	ROSS867	16 04 45	59.8	144.5	-1.3		-22.9	-15	1509	No stop
04 00 00	---	16 09 46	60.3	146.6	-1.2		-21.7	285	1548	03 55 01
04 00 30	J1722+2458	16 10 16	58.6	146.7	-1.2		-21.3	10	1548	04 00 30
04 01 40	=1720+250	16 11 26	58.7	147.1	-1.2		-21.1	70	1557	04 00 31
04 01 40	J1722+2815	16 11 26	61.8	144.8	-1.2		-23.2	-25	1557	No stop
04 03 20	=1720+282	16 13 06	61.9	145.5	-1.2		-22.7	75	1570	04 01 41
04 03 20	J1716+2616	16 13 06	60.6	149.5	-1.1		-19.9	-23	1570	No stop
04 05 00	---	16 14 46	60.7	150.2	-1.0		-19.4	77	1583	04 03 21
04 05 00	ROSS867	16 14 46	60.7	148.7	-1.1		-20.4	-16	1583	No stop
04 10 00	---	16 19 47	61.1	150.9	-1.0		-19.0	284	1621	04 05 01
04 10 30	J1722+2458	16 20 17	59.4	150.8	-1.1		-18.8	10	1621	04 10 30
04 11 40	=1720+250	16 21 27	59.5	151.3	-1.0		-18.5	70	1630	04 10 31
04 11 40	J1722+2815	16 21 27	62.6	149.1	-1.0		-20.5	-26	1630	No stop
04 13 20	=1720+282	16 23 08	62.7	149.9	-1.0		-20.0	74	1643	04 11 41
04 13 20	J1716+2616	16 23 08	61.3	153.9	-0.9		-17.2	-23	1643	No stop
04 15 00	---	16 24 48	61.4	154.6	-0.9		-16.7	77	1656	04 13 21
04 15 00	ROSS867	16 24 48	61.4	153.1	-0.9		-17.7	-16	1656	No stop
04 20 00	---	16 29 49	61.7	155.4	-0.8		-16.2	284	1695	04 15 01
04 20 30	J1722+2458	16 30 19	60.1	155.1	-0.9		-16.2	10	1695	04 20 30
04 21 40	=1720+250	16 31 29	60.2	155.6	-0.9		-15.9	70	1704	04 20 31

Schedule for TORUN (Code Tr)

Page 8

EB091 first epoch Ross867 astrometry

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Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
04 21 40	J1722+2815	16 31 29	63.3	153.7	-0.9		-17.5	-26	1704	No stop
04 23 20	=1720+282	16 33 09	63.4	154.5	-0.8		-17.0	74	1717	04 21 41
04 23 20	J1716+2616	16 33 09	61.9	158.4	-0.7		-14.3	-23	1717	No stop
04 25 00	---	16 34 50	62.0	159.2	-0.7		-13.8	77	1729	04 23 21
04 25 00	ROSS867	16 34 50	62.0	157.7	-0.8		-14.8	-16	1729	No stop
04 30 00	---	16 39 50	62.3	160.0	-0.7		-13.3	284	1768	04 25 01
04 30 30	J1722+2458	16 40 21	60.7	159.6	-0.7		-13.4	10	1768	04 30 30
04 31 40	=1720+250	16 41 31	60.8	160.1	-0.7		-13.0	70	1777	04 30 31
04 31 40	J1722+2815	16 41 31	63.9	158.5	-0.7		-14.4	-26	1777	No stop
04 33 20	=1720+282	16 43 11	64.0	159.3	-0.7		-13.9	74	1790	04 31 41
04 33 20	J1716+2616	16 43 11	62.4	163.1	-0.6		-11.2	-23	1790	No stop
04 35 00	---	16 44 51	62.5	163.9	-0.5		-10.7	77	1803	04 33 21
04 35 00	ROSS867	16 44 51	62.6	162.4	-0.6		-11.7	-16	1803	No stop
04 40 00	---	16 49 52	62.8	164.8	-0.5		-10.2	284	1841	04 35 01
04 40 30	J1722+2458	16 50 22	61.2	164.2	-0.6		-10.4	10	1841	04 40 30
04 41 40	=1720+250	16 51 32	61.2	164.7	-0.5		-10.1	70	1850	04 40 31
04 41 40	J1722+2815	16 51 32	64.4	163.5	-0.5		-11.2	-26	1850	No stop
04 43 20	=1720+282	16 53 13	64.5	164.3	-0.5		-10.6	74	1863	04 41 41
04 43 20	J1716+2616	16 53 13	62.8	167.9	-0.4		-8.1	-22	1863	No stop
04 45 00	---	16 54 53	62.8	168.7	-0.4		-7.5	78	1876	04 43 21
04 45 00	ROSS867	16 54 53	62.9	167.2	-0.4		-8.6	-16	1876	No stop
04 50 00	---	16 59 54	63.1	169.6	-0.3		-6.9	284	1915	04 45 01
04 50 30	J1722+2458	17 00 24	61.5	168.8	-0.4		-7.4	10	1915	04 50 30
04 51 40	=1720+250	17 01 34	61.5	169.4	-0.4		-7.0	70	1924	04 50 31
04 51 40	J1722+2815	17 01 34	64.8	168.6	-0.4		-7.8	-26	1924	No stop
04 53 20	=1720+282	17 03 14	64.8	169.4	-0.3		-7.2	74	1937	04 51 41
04 53 20	J1716+2616	17 03 14	63.0	172.8	-0.2		-4.8	-22	1937	No stop
04 55 00	---	17 04 55	63.0	173.6	-0.2		-4.3	78	1950	04 53 21
04 55 00	ROSS867	17 04 55	63.2	172.1	-0.3		-5.3	-16	1950	No stop
05 00 00	---	17 09 55	63.3	174.6	-0.2		-3.6	284	1988	04 55 01

Schedule for TORUN (Code Tr)

Page 9

EB091 first epoch Ross867 astrometry

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Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
05 00 30	J1722+2458	17 10 25	61.7	173.6	-0.2		-4.2	11	1988	05 00 30
05 01 40	=1720+250	17 11 36	61.8	174.2	-0.2		-3.9	70	1997	05 00 31
05 01 40	J1722+2815	17 11 36	65.0	173.7	-0.2		-4.3	-26	1997	No stop
05 03 20	=1720+282	17 13 16	65.1	174.6	-0.2		-3.7	74	2010	05 01 41
05 03 20	J1716+2616	17 13 16	63.1	177.8	-0.1		-1.5	-21	2010	No stop
05 05 00	---	17 14 56	63.1	178.6	-0.0		-0.9	79	2023	05 03 21
05 05 00	ROSS867	17 14 56	63.4	177.1	-0.1		-1.9	-16	2023	No stop
05 10 00	---	17 19 57	63.4	179.6	-0.0		-0.3	284	2062	05 05 01
05 10 30	J1722+2458	17 20 27	61.8	178.4	-0.1		-1.1	11	2062	05 10 30
05 11 40	=1720+250	17 21 37	61.9	179.0	-0.0		-0.7	70	2071	05 10 31
05 11 40	J1722+2815	17 21 37	65.1	179.0	-0.0		-0.7	-26	2071	No stop
05 13 20	=1720+282	17 23 18	65.1	179.9	-0.0		-0.1	74	2084	05 11 41
05 13 20	J1716+2616	17 23 18	63.1	182.8	0.1		1.8	-21	2084	No stop
05 15 00	---	17 24 58	63.1	183.6	0.1		2.4	79	2097	05 13 21
05 15 00	ROSS867	17 24 58	63.4	182.1	0.1		1.4	-16	2097	No stop
05 20 00	---	17 29 59	63.3	184.6	0.2		3.1	284	2135	05 15 01
05 20 30	J1722+2458	17 30 29	61.8	183.2	0.1		2.1	11	2135	05 20 30
05 21 40	=1720+250	17 31 39	61.8	183.8	0.1		2.5	70	2144	05 20 31
05 21 40	J1722+2815	17 31 39	65.1	184.2	0.1		2.9	-26	2144	No stop
05 23 20	=1720+282	17 33 19	65.1	185.1	0.2		3.5	74	2157	05 21 41
05 23 20	J1716+2616	17 33 19	63.0	187.7	0.3		5.2	-22	2157	No stop
05 25 00	---	17 35 00	63.0	188.5	0.3		5.7	78	2170	05 23 21
05 25 00	J1800+3848	17 35 00	75.0	159.9	-0.4		-15.3	-71	2170	No stop
05 33 00	=1758+388	17 43 01	75.4	165.9	-0.3		-10.8	409	2232	05 25 01
05 33 15	J1800+3848	17 43 16	75.4	166.1	-0.3		-10.7	8	2232	05 33 15
05 34 00	=1758+388	17 44 01	75.4	166.7	-0.3		-10.2	45	2238	05 33 16
05 35 30	J1722+2458	17 45 31	61.6	190.4	0.4		6.9	24	2238	05 35 30
05 36 40	=1720+250	17 46 41	61.5	190.9	0.4		7.2	70	2247	05 35 31
05 36 40	J1722+2815	17 46 41	64.8	192.0	0.4		8.2	-26	2247	No stop
05 38 20	=1720+282	17 48 22	64.7	192.9	0.4		8.7	74	2259	05 36 41

Schedule for TORUN (Code Tr)

Page 10

EB091 first epoch Ross867 astrometry

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Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
05 38 20	J1716+2616	17 48 22	62.5	195.0	0.5		10.0	-22	2259	No stop
05 40 00	---	17 50 02	62.5	195.8	0.5		10.5	78	2272	05 38 21
05 40 00	ROSS867	17 50 02	62.8	194.5	0.5		9.6	-15	2272	No stop
05 45 00	---	17 55 03	62.6	196.9	0.6		11.2	285	2311	05 40 01
05 45 30	J1722+2458	17 55 33	61.2	195.1	0.5		9.9	11	2311	05 45 30
05 46 40	=1720+250	17 56 43	61.2	195.6	0.5		10.3	70	2320	05 45 31
05 46 40	J1722+2815	17 56 43	64.4	197.1	0.6		11.6	-26	2320	No stop
05 48 20	=1720+282	17 58 23	64.3	197.9	0.6		12.1	74	2333	05 46 41
05 48 20	J1716+2616	17 58 23	62.1	199.8	0.7		13.1	-22	2333	No stop
05 50 00	---	18 00 04	62.0	200.5	0.7		13.6	78	2346	05 48 21
05 50 00	ROSS867	18 00 04	62.4	199.2	0.7		12.8	-15	2346	No stop
05 55 00	---	18 05 04	62.1	201.6	0.7		14.3	285	2384	05 50 01
05 55 30	J1722+2458	18 05 35	60.8	199.7	0.7		12.9	12	2384	05 55 30
05 56 40	=1720+250	18 06 45	60.7	200.2	0.7		13.2	70	2393	05 55 31
05 56 40	J1722+2815	18 06 45	63.9	202.0	0.7		14.8	-26	2393	No stop
05 58 20	=1720+282	18 08 25	63.8	202.8	0.7		15.3	74	2406	05 56 41
05 58 20	J1716+2616	18 08 25	61.5	204.4	0.8		16.0	-22	2406	No stop
06 00 00	---	18 10 05	61.4	205.1	0.9		16.5	78	2419	05 58 21
06 00 00	ROSS867	18 10 05	61.8	203.9	0.8		15.8	-15	2419	No stop
06 05 00	---	18 15 06	61.5	206.2	0.9		17.2	285	2458	06 00 01
06 05 30	J1722+2458	18 15 36	60.2	204.2	0.9		15.7	12	2458	06 05 30
06 06 40	=1720+250	18 16 46	60.1	204.7	0.9		16.0	70	2467	06 05 31
06 06 40	J1722+2815	18 16 46	63.3	206.8	0.9		17.9	-25	2467	No stop
06 08 20	=1720+282	18 18 27	63.1	207.6	0.9		18.4	75	2480	06 06 41
06 08 20	J1716+2616	18 18 27	60.9	208.8	1.0		18.8	-23	2480	No stop
06 10 00	---	18 20 07	60.7	209.5	1.0		19.3	77	2493	06 08 21
06 10 00	ROSS867	18 20 07	61.2	208.4	1.0		18.6	-14	2493	No stop
06 15 00	---	18 25 08	60.8	210.6	1.1		19.9	286	2531	06 10 01
06 15 30	J1722+2458	18 25 38	59.5	208.5	1.0		18.4	12	2531	06 15 30
06 16 40	=1720+250	18 26 48	59.5	209.0	1.1		18.7	70	2540	06 15 31

Schedule for TORUN (Code Tr)

Page 11

EB091 first epoch Ross867 astrometry

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Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
06 16 40	J1722+2815	18 26 48	62.5	211.4	1.1		20.8	-25	2540	No stop
06 18 20	=1720+282	18 28 28	62.4	212.1	1.1		21.2	75	2553	06 16 41
06 18 20	J1716+2616	18 28 28	60.1	213.1	1.2		21.4	-23	2553	No stop
06 20 00	---	18 30 09	59.9	213.8	1.2		21.9	77	2566	06 18 21
06 20 00	ROSS867	18 30 09	60.4	212.7	1.2		21.3	-14	2566	No stop
06 25 00	---	18 35 09	60.0	214.8	1.2		22.5	286	2605	06 20 01
06 25 30	J1722+2458	18 35 39	58.8	212.7	1.2		20.9	12	2605	06 25 30
06 26 40	=1720+250	18 36 50	58.7	213.1	1.2		21.2	70	2614	06 25 31
06 26 40	J1722+2815	18 36 50	61.7	215.7	1.2		23.5	-25	2614	No stop
06 28 20	=1720+282	18 38 30	61.5	216.4	1.2		23.9	75	2627	06 26 41
06 28 20	J1716+2616	18 38 30	59.2	217.2	1.3		23.9	-23	2627	No stop
06 30 00	---	18 40 10	59.1	217.9	1.4		24.3	77	2640	06 28 21
06 30 00	ROSS867	18 40 10	59.5	216.9	1.3		23.7	-14	2640	No stop
06 35 00	---	18 45 11	59.1	218.9	1.4		24.9	286	2678	06 30 01
06 35 30	J1722+2458	18 45 41	57.9	216.7	1.4		23.3	11	2678	06 35 30
06 36 40	=1720+250	18 46 51	57.8	217.1	1.4		23.6	70	2687	06 35 31
06 36 40	J1722+2815	18 46 51	60.8	219.9	1.4		25.9	-25	2687	No stop
06 38 20	=1720+282	18 48 32	60.6	220.6	1.4		26.3	75	2700	06 36 41
06 38 20	J1716+2616	18 48 32	58.3	221.1	1.5		26.1	-23	2700	No stop
06 40 00	---	18 50 12	58.1	221.8	1.5		26.5	77	2713	06 38 21
06 40 00	ROSS867	18 50 12	58.6	220.8	1.5		26.0	-13	2713	No stop
06 45 00	---	18 55 13	58.1	222.7	1.6		27.1	287	2752	06 40 01
06 45 30	J1722+2458	18 55 43	57.0	220.5	1.5		25.5	11	2752	06 45 30
06 46 40	=1720+250	18 56 53	56.9	221.0	1.6		25.7	70	2761	06 45 31
06 46 40	J1722+2815	18 56 53	59.8	223.9	1.6		28.2	-25	2761	No stop
06 48 20	=1720+282	18 58 33	59.6	224.5	1.6		28.5	75	2773	06 46 41
06 48 20	J1716+2616	18 58 33	57.2	224.9	1.7		28.2	-23	2773	No stop
06 50 00	---	19 00 13	57.1	225.5	1.7		28.5	77	2786	06 48 21
06 50 00	ROSS867	19 00 13	57.6	224.6	1.7		28.1	-13	2786	No stop
06 55 00	---	19 05 14	57.0	226.4	1.7		29.1	287	2825	06 50 01

Schedule for TORUN (Code Tr)

Page 12

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Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
06 55 30	J1722+2458	19 05 44	56.0	224.2	1.7		27.5	11	2825	06 55 30
06 56 40	=1720+250	19 06 55	55.8	224.6	1.7		27.7	70	2834	06 55 31
06 56 40	J1722+2815	19 06 55	58.7	227.6	1.7		30.2	-24	2834	No stop
06 58 20	=1720+282	19 08 35	58.5	228.2	1.8		30.6	76	2847	06 56 41
06 58 20	J1716+2616	19 08 35	56.1	228.5	1.8		30.1	-23	2847	No stop
07 00 00	---	19 10 15	56.0	229.0	1.9		30.4	77	2860	06 58 21
07 00 00	ROSS867	19 10 15	56.5	228.2	1.8		30.0	-13	2860	No stop
07 05 00	---	19 15 16	55.9	229.9	1.9		30.9	287	2898	07 00 01
07 05 30	J1722+2458	19 15 46	54.9	227.7	1.9		29.3	11	2898	07 05 30
07 06 40	=1720+250	19 16 56	54.8	228.1	1.9		29.6	70	2907	07 05 31
07 06 40	J1722+2815	19 16 56	57.5	231.2	1.9		32.1	-24	2907	No stop
07 08 20	=1720+282	19 18 36	57.4	231.8	1.9		32.4	76	2920	07 06 41
07 08 20	J1716+2616	19 18 36	55.0	231.9	2.0		31.8	-23	2920	No stop
07 10 00	---	19 20 17	54.8	232.4	2.0		32.0	77	2933	07 08 21
07 10 00	ROSS867	19 20 17	55.3	231.6	2.0		31.7	-13	2933	No stop
07 15 00	---	19 25 18	54.7	233.3	2.1		32.5	287	2972	07 10 01
07 15 30	J1722+2458	19 25 48	53.7	231.1	2.0		31.0	11	2972	07 15 30
07 16 40	=1720+250	19 26 58	53.6	231.5	2.1		31.2	70	2981	07 15 31
07 16 40	J1722+2815	19 26 58	56.3	234.6	2.1		33.8	-24	2981	No stop
07 18 20	=1720+282	19 28 38	56.1	235.2	2.1		34.0	76	2994	07 16 41
07 18 20	J1716+2616	19 28 38	53.8	235.1	2.2		33.3	-23	2994	No stop
07 20 00	---	19 30 18	53.6	235.7	2.2		33.6	77	3007	07 18 21
07 20 00	ROSS867	19 30 18	54.1	234.9	2.2		33.3	-14	3007	No stop
07 25 00	---	19 35 19	53.5	236.5	2.2		34.0	286	3045	07 20 01
07 25 30	J1722+2458	19 35 49	52.5	234.3	2.2		32.5	12	3045	07 25 30
07 26 40	=1720+250	19 37 00	52.4	234.7	2.2		32.7	70	3054	07 25 31
07 26 40	J1722+2815	19 37 00	55.1	237.8	2.2		35.2	-24	3054	No stop
07 28 20	=1720+282	19 38 40	54.9	238.4	2.3		35.5	76	3067	07 26 41
07 28 20	J1716+2616	19 38 40	52.5	238.2	2.3		34.7	-23	3067	No stop
07 30 00	---	19 40 20	52.3	238.7	2.4		34.9	77	3080	07 28 21

Schedule for TORUN (Code Tr)

Page 13

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Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
07 30 00	ROSS867	19 40 20	52.9	238.0	2.3		34.7	-14	3080	No stop
07 35 00	---	19 45 21	52.2	239.6	2.4		35.3	286	3119	07 30 01
07 35 30	J1722+2458	19 45 51	51.3	237.4	2.4		33.9	12	3119	07 35 30
07 36 40	=1720+250	19 47 01	51.2	237.8	2.4		34.1	70	3128	07 35 31
07 36 40	J1722+2815	19 47 01	53.8	240.9	2.4		36.6	-24	3128	No stop
07 38 20	=1720+282	19 48 41	53.6	241.4	2.4		36.8	76	3141	07 36 41
07 38 20	J1716+2616	19 48 41	51.2	241.2	2.5		35.9	-23	3141	No stop
07 40 00	---	19 50 22	51.0	241.7	2.5		36.1	77	3153	07 38 21
07 40 00	ROSS867	19 50 22	51.6	241.0	2.5		35.9	-14	3153	No stop
07 45 00	---	19 55 23	50.9	242.5	2.6		36.5	286	3192	07 40 01
07 45 30	J1722+2458	19 55 53	50.0	240.4	2.5		35.1	12	3192	07 45 30
07 46 40	=1720+250	19 57 03	49.9	240.7	2.6		35.3	70	3201	07 45 31
07 46 40	J1722+2815	19 57 03	52.5	243.9	2.6		37.7	-23	3201	No stop
07 48 20	=1720+282	19 58 43	52.2	244.3	2.6		37.9	77	3214	07 46 41
07 48 20	J1716+2616	19 58 43	49.9	244.1	2.7		37.0	-23	3214	No stop
07 50 00	---	20 00 23	49.7	244.5	2.7		37.2	77	3227	07 48 21
07 50 00	ROSS867	20 00 23	50.2	243.9	2.7		37.0	-14	3227	No stop
07 55 00	---	20 05 24	49.6	245.3	2.7		37.5	286	3266	07 50 01
07 55 30	J1722+2458	20 05 54	48.7	243.2	2.7		36.2	12	3266	07 55 30
07 56 40	=1720+250	20 07 04	48.5	243.5	2.7		36.4	70	3275	07 55 31
07 56 40	J1722+2815	20 07 04	51.1	246.7	2.7		38.7	-23	3275	No stop
07 58 20	=1720+282	20 08 45	50.9	247.1	2.8		38.9	77	3287	07 56 41
07 58 20	J1716+2616	20 08 45	48.5	246.8	2.8		38.0	-23	3287	No stop
08 00 00	---	20 10 25	48.3	247.2	2.9		38.1	77	3300	07 58 21
08 00 00	ROSS867	20 10 25	48.9	246.6	2.8		38.0	-14	3300	No stop
08 05 00	---	20 15 26	48.2	248.0	2.9		38.5	286	3339	08 00 01
08 05 30	J1722+2458	20 15 56	47.3	245.9	2.9		37.2	12	3339	08 05 30
08 06 40	=1720+250	20 17 06	47.2	246.2	2.9		37.3	70	3348	08 05 31
08 06 40	J1722+2815	20 17 06	49.7	249.4	2.9		39.6	-23	3348	No stop
08 08 20	=1720+282	20 18 46	49.5	249.8	2.9		39.8	77	3361	08 06 41

Schedule for TORUN (Code Tr)

Page 14

EB091 first epoch Ross867 astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
08 08 20	J1716+2616	20 18 46	47.1	249.4	3.0		38.8	-23	3361	No stop
08 10 00	---	20 20 27	46.9	249.8	3.0		38.9	77	3374	08 08 21
08 10 00	ROSS867	20 20 27	47.5	249.3	3.0		38.9	-14	3374	No stop
08 15 00	---	20 25 27	46.8	250.6	3.1		39.2	286	3412	08 10 01
08 15 30	J1722+2458	20 25 58	45.9	248.5	3.0		38.1	12	3412	08 15 30
08 16 40	=1720+250	20 27 08	45.8	248.8	3.1		38.1	70	3421	08 15 31
08 16 40	J1722+2815	20 27 08	48.3	251.9	3.1		40.4	-23	3421	No stop
08 18 20	=1720+282	20 28 48	48.0	252.4	3.1		40.5	77	3434	08 16 41
08 18 20	J1716+2616	20 28 48	45.7	251.9	3.2		39.5	-23	3434	No stop
08 20 00	---	20 30 28	45.5	252.3	3.2		39.6	77	3447	08 18 21
08 20 00	ROSS867	20 30 28	46.1	251.8	3.2		39.6	-14	3447	No stop
08 25 00	---	20 35 29	45.3	253.1	3.2		39.9	286	3486	08 20 01
08 25 30	J1722+2458	20 35 59	44.5	251.1	3.2		38.8	12	3486	08 25 30
08 26 40	=1720+250	20 37 09	44.4	251.4	3.2		38.9	70	3495	08 25 31
08 26 40	J1722+2815	20 37 09	46.8	254.4	3.2		41.0	-23	3495	No stop
08 28 20	=1720+282	20 38 50	46.6	254.8	3.3		41.1	77	3508	08 26 41
08 28 20	J1716+2616	20 38 50	44.3	254.4	3.4		40.1	-23	3508	No stop
08 30 00	---	20 40 30	44.0	254.8	3.4		40.2	77	3521	08 28 21
08 30 00	ROSS867	20 40 30	44.6	254.3	3.3		40.2	-14	3521	No stop
08 35 00	---	20 45 31	43.9	255.5	3.4		40.5	286	3559	08 30 01
08 35 30	J1722+2458	20 46 01	43.1	253.5	3.4		39.4	12	3559	08 35 30
08 36 40	=1720+250	20 47 11	42.9	253.8	3.4		39.5	70	3568	08 35 31
08 36 40	J1722+2815	20 47 11	45.4	256.8	3.4		41.6	-23	3568	No stop
08 38 20	=1720+282	20 48 51	45.1	257.2	3.4		41.6	77	3581	08 36 41
08 38 20	J1716+2616	20 48 51	42.8	256.7	3.5		40.7	-23	3581	No stop
08 40 00	---	20 50 32	42.6	257.1	3.5		40.7	77	3594	08 38 21
08 40 00	ROSS867	20 50 32	43.2	256.6	3.5		40.7	-14	3594	No stop
08 45 00	---	20 55 32	42.4	257.8	3.6		41.0	286	3633	08 40 01
08 45 30	J1722+2458	20 56 02	41.6	255.9	3.5		40.0	12	3633	08 45 30
08 46 40	=1720+250	20 57 13	41.5	256.1	3.6		40.0	70	3642	08 45 31

Schedule for TORUN (Code Tr)

Page 15

EB091 first epoch Ross867 astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

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TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
08 46 40	J1722+2815	20 57 13	43.9	259.1	3.6		42.0	-23	3642	No stop
08 48 20	=1720+282	20 58 53	43.7	259.5	3.6		42.1	77	3655	08 46 41
08 48 20	J1716+2616	20 58 53	41.3	259.0	3.7		41.1	-23	3655	No stop
08 50 00	---	21 00 33	41.1	259.4	3.7		41.2	77	3667	08 48 21
08 50 00	ROSS867	21 00 33	41.7	258.9	3.7		41.2	-14	3667	No stop
08 55 00	---	21 05 34	41.0	260.1	3.7		41.4	286	3706	08 50 01
08 55 30	J1722+2458	21 06 04	40.2	258.2	3.7		40.4	13	3706	08 55 30
08 56 40	=1720+250	21 07 14	40.0	258.4	3.7		40.5	70	3715	08 55 31
08 56 40	J1722+2815	21 07 14	42.4	261.4	3.7		42.4	-23	3715	No stop
08 58 20	=1720+282	21 08 55	42.2	261.7	3.8		42.4	77	3728	08 56 41
08 58 20	J1716+2616	21 08 55	39.8	261.3	3.9		41.4	-23	3728	No stop
09 00 00	---	21 10 35	39.6	261.6	3.9		41.5	77	3741	08 58 21
09 00 00	ROSS867	21 10 35	40.2	261.2	3.8		41.5	-14	3741	No stop
09 05 00	---	21 15 36	39.5	262.3	3.9		41.7	286	3780	09 00 01
09 05 30	J1722+2458	21 16 06	38.7	260.4	3.9		40.8	13	3780	09 05 30
09 06 40	=1720+250	21 17 16	38.5	260.7	3.9		40.8	70	3789	09 05 31
09 06 40	J1722+2815	21 17 16	40.9	263.5	3.9		42.6	-23	3789	No stop
09 08 20	=1720+282	21 18 56	40.7	263.9	3.9		42.7	77	3801	09 06 41
09 08 20	J1716+2616	21 18 56	38.3	263.4	4.0		41.7	-23	3801	No stop
09 10 00	---	21 20 36	38.1	263.8	4.0		41.7	77	3814	09 08 21
09 10 00	ROSS867	21 20 36	38.7	263.3	4.0		41.8	-14	3814	No stop
09 15 00	---	21 25 37	38.0	264.4	4.1		41.9	286	3853	09 10 01
09 15 30	J1722+2458	21 26 07	37.2	262.6	4.0		41.1	13	3853	09 15 30
09 16 40	=1720+250	21 27 18	37.0	262.8	4.1		41.1	70	3862	09 15 31
09 16 40	J1722+2815	21 27 18	39.4	265.7	4.1		42.8	-23	3862	No stop
09 18 20	=1720+282	21 28 58	39.2	266.0	4.1		42.8	77	3875	09 16 41
09 18 20	J1716+2616	21 28 58	36.8	265.5	4.2		41.9	-23	3875	No stop
09 20 00	---	21 30 38	36.6	265.9	4.2		41.9	77	3888	09 18 21
09 20 00	ROSS867	21 30 38	37.2	265.5	4.2		42.0	-14	3888	No stop
09 25 00	---	21 35 39	36.5	266.5	4.2		42.0	286	3926	09 20 01

Schedule for TORUN (Code Tr)

Page 16

EB091 first epoch Ross867 astrometry

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

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SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
09 25 30	J1722+2458	21 36 09	35.7	264.7	4.2		41.3	13	3926	09 25 30
09 26 40	=1720+250	21 37 19	35.5	265.0	4.2		41.3	70	3935	09 25 31
09 26 40	J1722+2815	21 37 19	37.9	267.7	4.2		42.9	-23	3935	No stop
09 28 20	=1720+282	21 38 59	37.7	268.1	4.3		42.9	77	3948	09 26 41
09 28 20	J1716+2616	21 38 59	35.3	267.6	4.4		42.0	-23	3948	No stop
09 30 00	---	21 40 40	35.1	267.9	4.4		42.0	77	3961	09 28 21
09 30 00	ROSS867	21 40 40	35.7	267.5	4.3		42.1	-14	3961	No stop
09 35 00	---	21 45 41	35.0	268.5	4.4		42.1	286	4000	09 30 01
09 35 30	J1722+2458	21 46 11	34.2	266.8	4.4		41.4	13	4000	09 35 30
09 36 40	=1720+250	21 47 21	34.0	267.0	4.4		41.4	70	4009	09 35 31
09 36 40	J1722+2815	21 47 21	36.4	269.8	4.4		43.0	-23	4009	No stop
09 38 20	=1720+282	21 49 01	36.2	270.1	4.4		43.0	77	4022	09 36 41
09 38 20	J1716+2616	21 49 01	33.8	269.6	4.5		42.0	-23	4022	No stop
09 40 00	---	21 50 41	33.6	270.0	4.5		42.0	77	4035	09 38 21
09 40 00	ROSS867	21 50 41	34.2	269.6	4.5		42.1	-14	4035	No stop
09 45 00	---	21 55 42	33.5	270.6	4.6		42.1	286	4073	09 40 01
09 45 30	J1722+2458	21 56 12	32.7	268.8	4.5		41.5	13	4073	09 45 30
09 46 40	=1720+250	21 57 23	32.5	269.1	4.6		41.5	70	4082	09 45 31
09 46 40	J1722+2815	21 57 23	34.9	271.8	4.6		42.9	-23	4082	No stop
09 48 20	=1720+282	21 59 03	34.7	272.1	4.6		42.9	77	4095	09 46 41
09 48 20	J1716+2616	21 59 03	32.3	271.6	4.7		42.0	-23	4095	No stop
09 50 00	---	22 00 43	32.1	272.0	4.7		42.0	77	4108	09 48 21
09 50 00	ROSS867	22 00 43	32.7	271.6	4.7		42.1	-14	4108	No stop
09 55 00	---	22 05 44	32.0	272.5	4.7		42.1	286	4147	09 50 01
09 55 30	J1722+2458	22 06 14	31.2	270.8	4.7		41.5	13	4147	09 55 30
09 56 40	=1720+250	22 07 24	31.0	271.1	4.7		41.5	70	4156	09 55 31
09 56 40	J1722+2815	22 07 24	33.4	273.7	4.7		42.8	-23	4156	No stop
09 58 20	=1720+282	22 09 04	33.2	274.0	4.8		42.8	77	4169	09 56 41
09 58 20	J1716+2616	22 09 04	30.8	273.6	4.9		41.9	-23	4169	No stop
10 00 00	---	22 10 45	30.6	273.9	4.9		41.9	77	4181	09 58 21

Schedule for TORUN (Code Tr)

Page 17

EB091 first epoch Ross867 astrometry

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Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Sun	6 Mar 2022	Day	65	---					
10 00 00	ROSS867	22 10 45	31.2	273.5	4.8		42.0	-14	4181	No stop
10 05 00	---	22 15 46	30.5	274.5	4.9		42.0	286	4220	10 00 01
10 05 30	J1722+2458	22 16 16	29.7	272.8	4.9		41.4	13	4220	10 05 30
10 06 40	=1720+250	22 17 26	29.5	273.1	4.9		41.4	70	4229	10 05 31
10 06 40	J1722+2815	22 17 26	31.9	275.6	4.9		42.7	-23	4229	No stop
10 08 20	=1720+282	22 19 06	31.7	276.0	4.9		42.7	77	4242	10 06 41
10 08 20	J1716+2616	22 19 06	29.3	275.5	5.0		41.8	-23	4242	No stop
10 10 00	---	22 20 46	29.1	275.8	5.1		41.8	77	4255	10 08 21
10 10 00	ROSS867	22 20 46	29.7	275.4	5.0		41.9	-14	4255	No stop
10 15 00	---	22 25 47	29.0	276.4	5.1		41.8	286	4294	10 10 01
10 15 30	J1722+2458	22 26 17	28.2	274.8	5.0		41.3	13	4294	10 15 30
10 16 40	=1720+250	22 27 27	28.0	275.0	5.1		41.3	70	4303	10 15 31
10 16 40	J1722+2815	22 27 27	30.4	277.5	5.1		42.5	-23	4303	No stop
10 18 20	=1720+282	22 29 08	30.2	277.9	5.1		42.5	77	4315	10 16 41
10 18 20	J1716+2616	22 29 08	27.8	277.4	5.2		41.6	-23	4315	No stop
10 20 00	---	22 30 48	27.6	277.8	5.2		41.6	77	4328	10 18 21
10 20 00	ROSS867	22 30 48	28.2	277.4	5.2		41.7	-14	4328	No stop
10 25 00	---	22 35 49	27.5	278.3	5.3		41.6	286	4367	10 20 01
10 25 30	J1722+2458	22 36 19	26.7	276.7	5.2		41.1	13	4367	10 25 30
10 26 40	=1720+250	22 37 29	26.5	276.9	5.2		41.1	70	4376	10 25 31
10 26 40	J1722+2815	22 37 29	28.9	279.4	5.2		42.2	-23	4376	No stop
10 28 20	=1720+282	22 39 09	28.7	279.7	5.3		42.2	77	4389	10 26 41
10 28 20	J1716+2616	22 39 09	26.3	279.3	5.4		41.3	-23	4389	No stop
10 30 00	---	22 40 50	26.1	279.6	5.4		41.3	77	4402	10 28 21

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

Setup group: 11	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

Frequency Set: 10 Setup file default. Used with PCAL = off
 LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
 BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
 Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
 Matching frequency sets: 10

Track assignments are:
 track1= 1, 2, 3, 4, 5, 6, 7, 8
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* ROSS867	17 17 51.729053	* 17 19 52.704417	17 20 45.560086	0.00
	26 33 06.96932	* 26 30 08.17019	26 28 31.32102	0.00
* J1716+2616	17 14 50.448389	* 17 16 51.834100	17 17 44.891012	0.00
	26 19 22.60014	* 26 16 10.83400	26 14 28.36140	0.00
* OQ208	14 04 45.615156	* 14 07 00.394415	14 08 00.530659	0.24
J1407+2827	28 41 29.23515	* 28 27 14.69019	28 20 45.00233	0.35
1404+286	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1407+28	GSFC 2016a X/S astro solution, 68278 observations.			
* 3C345	16 41 17.606229	* 16 42 58.809967	16 43 43.318658	0.79
J1642+3948	39 54 10.81492	* 39 48 36.99399	39 45 49.14297	0.59
1641+399	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1642+39	GSFC 2016a X/S astro solution, 53724 observations.			
1720+282	17 20 43.804512	* 17 22 42.161577	17 23 33.849147	0.08
* J1722+2815	28 17 46.61570	* 28 15 00.07627	28 13 28.14400	0.12
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 168 observations.			
1720+250	17 20 49.923363	* 17 22 52.989968	17 23 46.741148	0.12
* J1722+2458	25 01 20.62720	* 24 58 34.69119	24 57 03.89704	0.21
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 109 observations.			
1758+388	17 58 44.703954	* 18 00 24.765363	18 01 08.109339	0.01
* J1800+3848	38 48 32.47350	* 38 48 30.69748	38 48 08.81971	0.01
J1800+38	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 5095 observations.			

es101btr

OLD RADIO ACTIVITY IN TWO YOUNG RADIO GALAXIES

PI: *Carlo Stanghellini*

Address: INAF-IRA

Schedule for TORUN (Code Tr)

Page 2

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.
 Early: Seconds between end of slew and start. Dwell: On source seconds.
 Disk: GBytes recorded to this point.
 TPStart: Recording start time. Frequencies are L0 sum (band edge).
 SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Sun 6 Mar 2022 Day 65 ---										
Next scan frequencies:		1626.49	1626.49	1626.49	1626.49	1690.49	1690.49	1690.49	1690.49	1690.49
Next BBC frequencies:		673.51	673.51	673.51	673.51	609.51	609.51	609.51	609.51	609.51
Next scan bandwidths:		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00

23 00 00	J1505+0326	11 12 53	21.2	114.3	-3.9		-33.2	0	0	23 00 00
23 02 00	=1502+036	11 14 53	21.5	114.8	-3.9		-33.1	120	15	23 00 01
23 02 33	J1511+0518	11 15 26	22.2	112.3	-4.0		-33.9	14	15	23 02 33
23 09 33	=1509+054	11 22 27	23.2	113.9	-3.8		-33.5	420	70	23 02 34
23 10 06	J1505+0326	11 23 00	22.6	116.6	-3.7		-32.5	13	70	23 10 06
23 12 06	=1502+036	11 25 01	22.8	117.1	-3.7		-32.4	120	85	23 10 07
23 16 45	3C286	11 29 41	58.2	123.4	-2.0		-35.5	134	85	23 16 45
23 19 45	---	11 32 41	58.6	124.4	-2.0		-35.1	180	108	23 16 46
23 24 14	J1505+0326	11 37 11	24.4	119.9	-3.5		-31.4	126	108	23 24 14
23 26 14	=1502+036	11 39 12	24.7	120.3	-3.5		-31.3	120	124	23 24 15
23 26 47	J1511+0518	11 39 45	25.5	117.9	-3.6		-32.2	14	124	23 26 47
23 33 47	=1509+054	11 46 46	26.4	119.5	-3.4		-31.7	420	178	23 26 48
23 34 20	J1521+0430	11 47 19	24.6	117.9	-3.6		-32.2	12	178	23 34 20
23 36 20	=1518+046	11 49 19	24.8	118.3	-3.6		-32.0	120	193	23 34 21
23 36 53	J1511+0518	11 49 52	26.8	120.2	-3.4		-31.4	12	193	23 36 53
23 43 53	=1509+054	11 56 54	27.7	121.9	-3.3		-30.8	420	247	23 36 54
23 44 26	J1505+0326	11 57 27	27.0	124.7	-3.1		-29.6	13	247	23 44 26
23 46 26	=1502+036	11 59 27	27.3	125.2	-3.1		-29.4	120	263	23 44 27
23 46 59	J1511+0518	12 00 00	28.1	122.7	-3.2		-30.5	14	263	23 46 59
23 53 59	=1509+054	12 07 01	29.0	124.4	-3.1		-29.8	420	317	23 47 00
23 54 32	J1521+0430	12 07 34	27.2	122.7	-3.2		-30.5	12	317	23 54 32
23 56 32	=1518+046	12 09 35	27.4	123.1	-3.2		-30.3	120	332	23 54 33
--- Start: Sun 6 Mar 2022 Day 65 -- Stop: Mon 7 Mar 2022 Day 66 ---										
23 57 05	J1511+0518	12 10 08	29.4	125.2	-3.0		-29.5	12	332	23 57 05
00 04 05	=1509+054	12 17 09	30.2	126.9	-2.9		-28.8	420	386	23 57 06

Schedule for TORUN (Code Tr)

Page 3

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon	7 Mar 2022	Day	66	---					
00 04 38	J1505+0326	12 17 42	29.4	129.7	-2.8		-27.5	13	386	00 04 38
00 06 38	=1502+036	12 19 42	29.7	130.3	-2.8		-27.3	120	402	00 04 39
00 07 11	J1511+0518	12 20 15	30.6	127.7	-2.9		-28.5	14	402	00 07 11
00 14 11	=1509+054	12 27 17	31.4	129.5	-2.8		-27.7	420	456	00 07 12
00 14 44	J1521+0430	12 27 50	29.7	127.7	-2.9		-28.5	13	456	00 14 44
00 16 44	=1518+046	12 29 50	29.9	128.2	-2.9		-28.3	120	471	00 14 45
00 17 17	J1511+0518	12 30 23	31.8	130.3	-2.7		-27.4	12	471	00 17 17
00 24 17	=1509+054	12 37 24	32.6	132.2	-2.6		-26.5	420	526	00 17 18
00 24 50	J1505+0326	12 37 57	31.7	135.0	-2.5		-25.2	13	526	00 24 50
00 26 50	=1502+036	12 39 58	31.9	135.5	-2.4		-24.9	120	541	00 24 51
00 27 23	J1511+0518	12 40 31	32.9	133.0	-2.5		-26.2	13	541	00 27 23
00 34 23	=1509+054	12 47 32	33.7	134.9	-2.4		-25.3	420	595	00 27 24
00 34 56	J1521+0430	12 48 05	32.0	132.9	-2.6		-26.2	13	595	00 34 56
00 36 56	=1518+046	12 50 05	32.2	133.4	-2.5		-25.9	120	611	00 34 57
00 37 29	J1511+0518	12 50 38	34.0	135.7	-2.4		-24.9	13	611	00 37 29
00 44 29	=1509+054	12 57 39	34.7	137.6	-2.3		-24.0	420	665	00 37 30
00 45 02	J1505+0326	12 58 13	33.7	140.5	-2.1		-22.5	13	665	00 45 02
00 47 02	=1502+036	13 00 13	33.9	141.1	-2.1		-22.2	120	680	00 45 03
00 47 35	J1511+0518	13 00 46	35.0	138.5	-2.2		-23.5	13	680	00 47 35
00 54 35	=1509+054	13 07 47	35.7	140.5	-2.1		-22.6	420	734	00 47 36
00 55 08	J1521+0430	13 08 20	34.1	138.3	-2.2		-23.6	13	734	00 55 08
00 57 08	=1518+046	13 10 21	34.3	138.9	-2.2		-23.3	120	750	00 55 09
00 57 41	J1511+0518	13 10 54	36.0	141.4	-2.0		-22.1	13	750	00 57 41
01 04 41	=1509+054	13 17 55	36.7	143.4	-1.9		-21.1	420	804	00 57 42
01 05 14	J1505+0326	13 18 28	35.5	146.2	-1.8		-19.5	13	804	01 05 14
01 07 14	=1502+036	13 20 28	35.7	146.8	-1.8		-19.2	120	819	01 05 15
01 07 47	J1511+0518	13 21 01	36.9	144.3	-1.9		-20.6	13	819	01 07 47
01 14 47	=1509+054	13 28 02	37.5	146.3	-1.7		-19.5	420	873	01 07 48
01 15 20	J1521+0430	13 28 36	36.0	144.1	-1.9		-20.7	14	873	01 15 20
01 17 20	=1518+046	13 30 36	36.2	144.6	-1.9		-20.4	120	889	01 15 21
01 17 53	J1511+0518	13 31 09	37.8	147.3	-1.7		-19.0	14	889	01 17 53
01 24 53	=1509+054	13 38 10	38.4	149.4	-1.6		-17.9	420	943	01 17 54

Schedule for TORUN (Code Tr)

Page 4

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon	7 Mar 2022	Day	66	---					
01 25 26	J1505+0326	13 38 43	37.1	152.2	-1.5		-16.3	13	943	01 25 26
01 27 26	=1502+036	13 40 44	37.2	152.8	-1.4		-16.0	120	958	01 25 27
01 27 59	J1511+0518	13 41 17	38.6	150.3	-1.5		-17.4	14	958	01 27 59
01 34 59	=1509+054	13 48 18	39.1	152.5	-1.4		-16.2	420	1013	01 28 00
01 35 32	J1521+0430	13 48 51	37.7	150.0	-1.6		-17.5	14	1013	01 35 32
01 37 32	=1518+046	13 50 51	37.8	150.6	-1.5		-17.2	120	1028	01 35 33
01 38 05	J1511+0518	13 51 24	39.3	153.4	-1.4		-15.7	13	1028	01 38 05
01 45 05	=1509+054	13 58 25	39.8	155.6	-1.2		-14.4	420	1082	01 38 06
01 45 38	J1505+0326	13 58 59	38.4	158.4	-1.1		-12.8	13	1082	01 45 38
01 47 38	=1502+036	14 00 59	38.5	159.0	-1.1		-12.4	120	1098	01 45 39
01 51 21	3C345	14 04 42	60.0	100.2	-2.7		-50.2	90	1098	01 51 21
01 56 21	---	14 09 43	60.8	101.5	-2.6		-50.0	300	1136	01 51 22
01 59 18	J1511+0518	14 12 41	40.6	160.1	-1.0		-11.8	45	1136	01 59 18
02 06 18	=1509+054	14 19 42	40.9	162.4	-0.9		-10.5	420	1190	01 59 19
02 06 51	J1505+0326	14 20 15	39.4	165.1	-0.8		-8.9	14	1190	02 06 51
02 08 51	=1502+036	14 22 15	39.4	165.7	-0.7		-8.5	120	1206	02 06 52
02 09 24	J1511+0518	14 22 48	41.0	163.4	-0.8		-9.9	13	1206	02 09 24
02 16 24	=1509+054	14 29 49	41.3	165.7	-0.7		-8.6	420	1260	02 09 25
02 16 57	J1521+0430	14 30 23	40.2	162.9	-0.9		-10.2	13	1260	02 16 57
02 18 57	=1518+046	14 32 23	40.3	163.6	-0.8		-9.8	120	1275	02 16 58
02 19 30	J1511+0518	14 32 56	41.4	166.7	-0.7		-8.0	12	1275	02 19 30
02 26 30	=1509+054	14 39 57	41.7	169.0	-0.5		-6.6	420	1329	02 19 31
02 27 03	J1505+0326	14 40 30	40.0	171.6	-0.4		-5.0	13	1329	02 27 03
02 29 03	=1502+036	14 42 31	40.0	172.3	-0.4		-4.6	120	1345	02 27 04
02 29 36	J1511+0518	14 43 04	41.7	170.1	-0.5		-6.0	13	1345	02 29 36
02 36 36	=1509+054	14 50 05	41.9	172.4	-0.4		-4.6	420	1399	02 29 37
02 37 09	J1521+0430	14 50 38	40.9	169.5	-0.5		-6.3	13	1399	02 37 09
02 39 09	=1518+046	14 52 38	40.9	170.2	-0.5		-5.9	120	1414	02 37 10
02 39 42	J1511+0518	14 53 11	42.0	173.4	-0.3		-4.0	12	1414	02 39 42
02 46 42	=1509+054	15 00 12	42.1	175.8	-0.2		-2.5	420	1469	02 39 43

Schedule for TORUN (Code Tr) Page 5

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon	7 Mar 2022	Day	66	---					
02 47 15	J1505+0326	15 00 46	40.2	178.2	-0.1		-1.1	12	1469	02 47 15
02 49 15	=1502+036	15 02 46	40.3	178.9	-0.1		-0.7	120	1484	02 47 16
02 49 48	J1511+0518	15 03 19	42.1	176.8	-0.2		-1.9	12	1484	02 49 48
02 56 48	=1509+054	15 10 20	42.1	179.2	-0.0		-0.5	420	1538	02 49 49
02 57 21	J1521+0430	15 10 53	41.3	176.2	-0.2		-2.3	12	1538	02 57 21
02 59 21	=1518+046	15 12 54	41.3	176.9	-0.2		-1.9	120	1554	02 57 22
02 59 54	J1511+0518	15 13 27	42.1	180.2	0.0		0.1	12	1554	02 59 54
03 06 54	=1509+054	15 20 28	42.1	182.6	0.1		1.6	420	1608	02 59 55
03 07 27	J1505+0326	15 21 01	40.2	184.8	0.2		2.9	12	1608	03 07 27
03 09 27	=1502+036	15 23 01	40.1	185.5	0.3		3.3	120	1623	03 07 28
03 10 00	J1511+0518	15 23 34	42.1	183.6	0.2		2.2	12	1623	03 10 00
03 17 00	=1509+054	15 30 35	42.0	186.0	0.3		3.6	420	1677	03 10 01
03 17 33	J1521+0430	15 31 09	41.3	182.9	0.1		1.8	12	1677	03 17 33
03 19 33	=1518+046	15 33 09	41.3	183.6	0.2		2.2	120	1693	03 17 34
03 20 06	J1511+0518	15 33 42	41.9	187.0	0.3		4.2	12	1693	03 20 06
03 27 06	=1509+054	15 40 43	41.8	189.3	0.5		5.6	420	1747	03 20 07
03 27 39	J1505+0326	15 41 16	39.7	191.4	0.6		6.8	12	1747	03 27 39
03 29 39	=1502+036	15 43 16	39.7	192.1	0.6		7.2	120	1762	03 27 40
03 30 12	J1511+0518	15 43 50	41.7	190.4	0.5		6.2	12	1762	03 30 12
03 37 12	=1509+054	15 50 51	41.5	192.7	0.6		7.6	420	1816	03 30 13
03 37 45	J1521+0430	15 51 24	41.0	189.6	0.5		5.8	12	1816	03 37 45
03 39 45	=1518+046	15 53 24	40.9	190.3	0.5		6.2	120	1832	03 37 46
03 40 18	J1511+0518	15 53 57	41.4	193.7	0.7		8.2	12	1832	03 40 18
03 47 18	=1509+054	16 00 58	41.1	196.0	0.8		9.6	420	1886	03 40 19
03 47 51	J1505+0326	16 01 31	39.0	197.9	0.9		10.6	11	1886	03 47 51
03 49 51	=1502+036	16 03 32	38.9	198.5	1.0		11.0	120	1901	03 47 52
03 50 24	J1511+0518	16 04 05	41.0	197.0	0.9		10.2	11	1901	03 50 24
03 57 24	=1509+054	16 11 06	40.7	199.3	1.0		11.5	420	1955	03 50 25
03 57 57	J1521+0430	16 11 39	40.3	196.2	0.8		9.7	12	1955	03 57 57
03 59 57	=1518+046	16 13 39	40.2	196.8	0.9		10.1	120	1971	03 57 58

Schedule for TORUN (Code Tr) Page 6

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop		Early	Disk	TPStart				
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon	7 Mar 2022	Day	66	---					
04 00 30	J1511+0518	16 14 13	40.5	200.3	1.0		12.1	12	1971	04 00 30
04 07 30	=1509+054	16 21 14	40.1	202.5	1.1		13.4	420	2025	04 00 31
04 08 03	J1505+0326	16 21 47	37.9	204.2	1.3		14.3	11	2025	04 08 03
04 10 03	=1502+036	16 23 47	37.8	204.8	1.3		14.6	120	2040	04 08 04
04 10 36	J1511+0518	16 24 20	39.9	203.5	1.2		13.9	11	2040	04 10 36
04 17 36	=1509+054	16 31 21	39.5	205.7	1.3		15.2	420	2095	04 10 37
04 18 09	J1521+0430	16 31 54	39.3	202.6	1.2		13.4	12	2095	04 18 09
04 20 09	=1518+046	16 33 55	39.2	203.3	1.2		13.8	120	2110	04 18 10
04 20 42	J1511+0518	16 34 28	39.3	206.7	1.4		15.7	12	2110	04 20 42
04 27 42	=1509+054	16 41 29	38.8	208.8	1.5		16.9	420	2164	04 20 43
04 28 15	J1505+0326	16 42 02	36.5	210.3	1.6		17.7	11	2164	04 28 15
04 30 15	=1502+036	16 44 02	36.3	210.9	1.6		18.0	120	2180	04 28 16
04 30 48	J1511+0518	16 44 36	38.6	209.8	1.5		17.4	11	2180	04 30 48
04 37 48	=1509+054	16 51 37	38.0	211.9	1.6		18.6	420	2234	04 30 49
04 38 21	J1521+0430	16 52 10	38.0	208.9	1.5		16.9	12	2234	04 38 21
04 40 21	=1518+046	16 54 10	37.8	209.5	1.5		17.2	120	2249	04 38 22
04 40 54	J1511+0518	16 54 43	37.8	212.8	1.7		19.1	12	2249	04 40 54
04 47 54	=1509+054	17 01 44	37.2	214.9	1.8		20.2	420	2303	04 40 55
04 48 27	J1505+0326	17 02 17	34.8	216.1	1.9		20.8	10	2303	04 48 27
04 50 27	=1502+036	17 04 18	34.6	216.7	2.0		21.1	120	2319	04 48 28
04 51 00	J1511+0518	17 04 51	36.9	215.8	1.9		20.7	10	2319	04 51 00
04 58 00	=1509+054	17 11 52	36.3	217.8	2.0		21.7	420	2373	04 51 01
04 58 33	J1521+0430	17 12 25	36.3	214.9	1.8		20.1	12	2373	04 58 33
05 00 33	=1518+046	17 14 25	36.2	215.5	1.9		20.5	120	2388	04 58 34
05 01 06	J1511+0518	17 14 59	36.0	218.7	2.0		22.2	12	2388	05 01 06
05 08 06	=1509+054	17 22 00	35.3	220.7	2.2		23.2	420	2442	05 01 07
05 08 39	J1505+0326	17 22 33	32.9	221.8	2.3		23.6	10	2442	05 08 39
05 10 39	=1502+036	17 24 33	32.7	222.3	2.3		23.9	120	2458	05 08 40
05 11 12	J1511+0518	17 25 06	35.0	221.6	2.2		23.6	10	2458	05 11 12
05 18 12	=1509+054	17 32 07	34.3	223.5	2.3		24.5	420	2512	05 11 13

Schedule for TORUN (Code Tr) Page 7

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

---	Mon	7 Mar 2022	Day	66	---					
05 18 45	J1521+0430	17 32 40	34.5	220.6	2.2		23.1	13	2512	05 18 45
05 20 45	=1518+046	17 34 41	34.3	221.2	2.2		23.4	120	2527	05 18 46
05 21 18	J1511+0518	17 35 14	34.0	224.4	2.4		24.9	12	2527	05 21 18
05 28 18	=1509+054	17 42 15	33.2	226.3	2.5		25.8	420	2582	05 21 19
05 28 51	J1505+0326	17 42 48	30.8	227.2	2.6		26.2	10	2582	05 28 51
05 30 51	=1502+036	17 44 48	30.6	227.7	2.6		26.4	120	2597	05 28 52
05 31 24	J1511+0518	17 45 21	32.9	227.1	2.5		26.2	10	2597	05 31 24
05 38 24	=1509+054	17 52 23	32.1	228.9	2.7		27.0	420	2651	05 31 25
05 38 57	J1521+0430	17 52 56	32.4	226.2	2.5		25.7	13	2651	05 38 57
05 40 57	=1518+046	17 54 56	32.2	226.7	2.5		26.0	120	2667	05 38 58
05 41 30	J1511+0518	17 55 29	31.8	229.8	2.7		27.4	13	2667	05 41 30
05 48 30	=1509+054	18 02 30	30.9	231.6	2.8		28.2	420	2721	05 41 31
05 49 03	J1505+0326	18 03 03	28.5	232.3	2.9		28.4	10	2721	05 49 03
05 51 03	=1502+036	18 05 04	28.2	232.8	3.0		28.6	120	2736	05 49 04
05 51 36	J1511+0518	18 05 37	30.6	232.4	2.9		28.5	10	2736	05 51 36
05 58 36	=1509+054	18 12 38	29.7	234.1	3.0		29.2	420	2790	05 51 37
05 59 09	J1521+0430	18 13 11	30.1	231.4	2.8		28.1	13	2790	05 59 09
06 01 09	=1518+046	18 15 11	29.9	231.9	2.9		28.3	120	2806	05 59 10
06 01 42	J1511+0518	18 15 44	29.3	234.9	3.0		29.6	13	2806	06 01 42
06 08 42	=1509+054	18 22 46	28.5	236.6	3.2		30.2	420	2860	06 01 43
06 09 15	J1505+0326	18 23 19	26.0	237.3	3.3		30.4	10	2860	06 09 15
06 11 15	=1502+036	18 25 19	25.7	237.8	3.3		30.6	120	2875	06 09 16
06 11 48	J1511+0518	18 25 52	28.1	237.4	3.2		30.5	10	2875	06 11 48
06 18 48	=1509+054	18 32 53	27.2	239.1	3.3		31.2	420	2929	06 11 49
06 19 21	J1521+0430	18 33 26	27.6	236.5	3.2		30.1	13	2929	06 19 21
06 21 21	=1518+046	18 35 27	27.4	236.9	3.2		30.3	120	2945	06 19 22
06 21 54	J1511+0518	18 36 00	26.8	239.8	3.4		31.4	13	2945	06 21 54
06 28 54	=1509+054	18 43 01	25.9	241.5	3.5		32.0	420	2999	06 21 55
06 29 27	J1505+0326	18 43 34	23.3	242.1	3.6		32.1	10	2999	06 29 27
06 31 27	=1502+036	18 45 34	23.1	242.5	3.7		32.3	120	3014	06 29 28

Schedule for TORUN (Code Tr) Page 8

Old radio activity in two young radio galaxies

UP: D => Below limits; H => Below horizon mask; W => still slewing at end; blank => Up.

Early: Seconds between end of slew and start. Dwell: On source seconds.

Disk: GBytes recorded to this point.

TPStart: Recording start time. Frequencies are L0 sum (band edge).

SYNC: Time correlator is expected to sync up.

```
-----
```

Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Mon 7 Mar 2022 Day 66 ---										
06 32 00	J1511+0518	18 46 07	25.5	242.2	3.6		32.2	10	3014	06 32 00
06 39 00	=1509+054	18 53 09	24.5	243.8	3.7		32.8	420	3068	06 32 01
06 39 33	J1521+0430	18 53 42	25.0	241.3	3.5		31.9	14	3068	06 39 33
06 41 33	=1518+046	18 55 42	24.8	241.8	3.6		32.0	120	3084	06 39 34
06 42 06	J1511+0518	18 56 15	24.1	244.6	3.7		33.0	13	3084	06 42 06
06 49 06	=1509+054	19 03 16	23.1	246.1	3.8		33.5	420	3138	06 42 07
06 49 39	J1505+0326	19 03 49	20.6	246.6	4.0		33.5	10	3138	06 49 39
06 51 39	=1502+036	19 05 50	20.3	247.1	4.0		33.6	120	3153	06 49 40
06 52 12	J1511+0518	19 06 23	22.7	246.8	3.9		33.7	10	3153	06 52 12
06 57 12	=1509+054	19 11 24	22.0	248.0	4.0		34.0	300	3192	06 52 13
06 57 45	J1521+0430	19 11 57	22.6	245.5	3.8		33.2	14	3192	06 57 45
07 00 00	=1518+046	19 14 12	22.3	246.0	3.9		33.4	135	3210	06 57 46

```
-----
```

SETUP FILE INFORMATION:

NOTE: If DOPPLER, FREQ, or BW were used, see the individual scans for the final BBC settings.

==== Setup file: sess122.L1024

Setup group: 12	Station: TORUN	Total bit rate: 1024
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 8	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U	L	L	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	1	9	2	10	2	10
BBC SB=	U	U	L	L	U	U	L	L
IF =	A1	B1	A1	B1	A1	B1	A1	B1

The following frequency sets based on these setups were used.

```

Frequency Set: 6 Setup file default. Used with PCAL = off
LO sum= 1626.49 1626.49 1626.49 1626.49 1690.49 1690.49 1690.49 1690.49
BBC fr= 673.51 673.51 673.51 673.51 609.51 609.51 609.51 609.51
Bandwd= 32.00 32.00 32.00 32.00 32.00 32.00 32.00 32.00
Matching frequency sets: 6

```

Track assignments are:

```

track1= 1, 2, 3, 4, 5, 6, 7, 8
barrel=roll_off

```

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* 3C286	13 28 49.657769	* 13 31 08.288061	13 32 10.311094	0.17
J1331+3030	30 45 58.64066	* 30 30 32.95930	30 23 33.37410	0.16
1328+307	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1331+30	GSFC 2016a X/S astro solution, 269 observations.			
1502+036	15 02 35.669005	* 15 05 06.477159	15 06 13.192753	0.01
* J1505+0326	03 38 07.37348	* 03 26 30.81259	03 21 15.00896	0.01
J1505+03	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 8260 observations.			
1509+054	15 09 12.148929	* 15 11 41.266418	15 12 47.213125	0.09
* J1511+0518	05 29 24.79890	* 05 18 09.25938	05 13 02.03957	0.15
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 135 observations.			
1518+046	15 18 44.752496	* 15 21 14.418441	15 22 20.553700	0.18
* J1521+0430	04 41 05.76923	* 04 30 21.63824	04 25 28.33074	0.37
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 63 observations.			
* 3C345	16 41 17.606229	* 16 42 58.809967	16 43 43.348585	0.79
J1642+3948	39 54 10.81492	* 39 48 36.99399	39 45 49.15727	0.59
1641+399	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1642+39	GSFC 2016a X/S astro solution, 53724 observations.			

Contents

Graphical Plan of Experiments in Feb 2022.....	1
Experiment Listing	3
n2211tr – Network Monitoring Experiment	5
eb089btr – EB089 second epoch WX UMa Astrometry	9
ev024atr – e-EVN: EV024A	34
em161atr – EM161A	39
em155atr – EM155A	49
em161btr – EM161B	63
ra005tr – e-EVN observation of a possibly imminent merger of SMBH binary ..	73
er052atr – Mapping EVN primary beams	82
er052btr – Mapping EVN primary beams	95
es101atr – Old radio activity in two young radio galaxies	108
eg113atr – Gamma-ray young radio source	116
rsw02tr – A Re-observation of the VLBA Primary Calibrator J1926+4441	132
eh040atr – EH040A	134
eh040btr – EH040B	159
eb091atr – EB091 first epoch Ross867 astrometry	184
es101btr – Old radio activity in two young radio galaxies	202