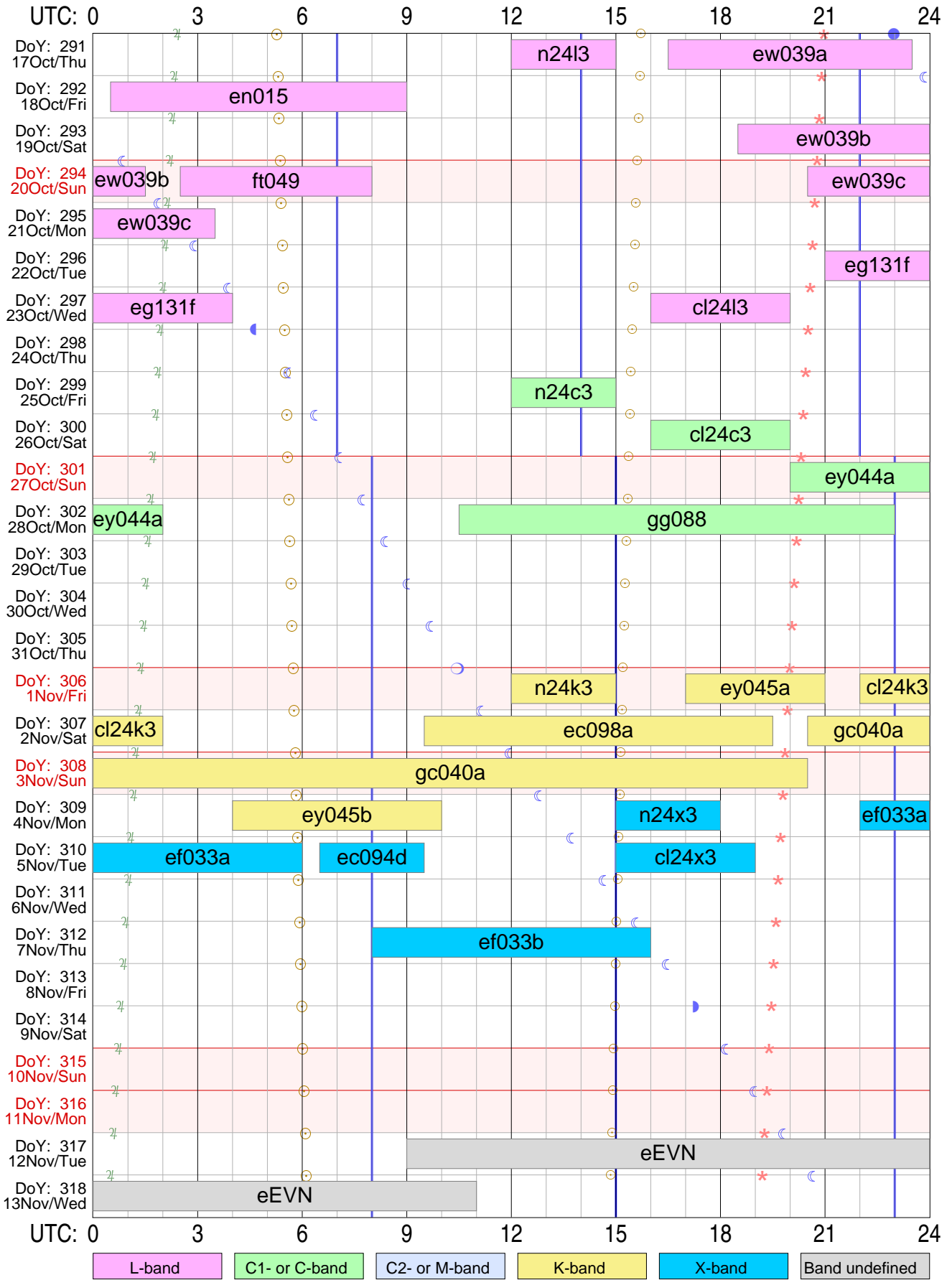


Tr VLBI plan for Oct/Nov 2024



Version: 2024.10.17

Sky events at Tr: ○ Sunrise & sunset ●●●● Transit of Moon ☾ Transit of Jupiter * Transit of Aries (0h ST)

Vertical lines in blue mark operator shift times at Tr

Total observing time: 177.5 hours in 24 experiments scheduled

Strona zostawiona celowo pusta

EVN Experiments

Oct 2024

Użytkownik ftp dla logów i schedulw RA: grt

ftp://webinet.asc.rssi.ru

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

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

Year = 2024, 2nd line is: Year Date UTstart UTstop Exper. xxComment							
Nr	D	M	<=Dur	Exper.	name	Comment	
1	17.10	3.0	n24l3			L	
2	17.10	7.0	ew039a			L	
3	18.10	8.5	en015			L	
4	19.10	5.5	ew039b			L	
5	20.10	5.5	ft049			L	
6	20.10	3.5	ew039c			L	
7	22.10	3.0	eg131f			L	
8	23.10	4.0	cl24l3			L	
9	25.10	3.0	n24c3			C	
10	26.10	4.0	cl24c3			C	
11	27.10	4.0	ey044a			C	
12	28.10	12.5	gg088			C	
13	1.11	3.0	n24k3			K	
14	1.11	4.0	ey045a			K	
15	1.11	2.0	cl24k3			K	
16	2.11	10.0	ec098a			K	
17	2.11	3.5	gc040a			K	
18	4.11	6.0	ey045b			K	
19	4.11	3.0	n24x3			X	
20	4.11	2.0	ef033a			X	
21	5.11	3.0	ec094d			X	
22	5.11	4.0	cl24x3			X	
23	7.11	8.0	ef033b			X	
24	12.11	26.0	eEVN				

Summer time (DST): Mar 31 to Oct 27, 2024

Total observing time: 177.5 hours in 24 experiments

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

<http://paulo.astro.uni.torun.pl/~pw/VLBI/schedules/oct24.pdf>

NETWORK MONITORING EXPERIMENT
PI: *Junghwan Oh*

Address: JIVE

Observing mode: vlbi

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 17 Oct 2024 Day 291 ---										
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

12 00 00	3C395	15 00 11	42.2	90.8	-4.1	-45.1	0	0	12 00 00	
12 05 00	---	15 05 12	42.9	91.9	-4.0	-45.1	300	39	12 00 01	
12 10 00	3C395	15 10 13	43.7	92.9	-3.9	-45.0	293	39	12 10 00	
12 15 00	---	15 15 14	44.4	93.9	-3.8	-45.0	300	77	12 10 01	
12 20 00	3C395	15 20 15	45.2	95.0	-3.7	-44.9	293	77	12 20 00	
12 30 00	---	15 30 16	46.7	97.2	-3.6	-44.7	600	155	12 20 01	
12 35 00	3C395	15 35 17	47.4	98.3	-3.5	-44.5	293	155	12 35 00	
12 45 00	---	15 45 19	48.9	100.6	-3.3	-44.1	600	232	12 35 01	
12 50 00	3C395	15 50 20	49.7	101.7	-3.2	-43.9	293	232	12 50 00	
13 00 00	---	16 00 21	51.1	104.2	-3.1	-43.4	600	309	12 50 01	
13 05 00	3C395	16 05 22	51.9	105.4	-3.0	-43.1	293	309	13 05 00	
13 15 00	---	16 15 24	53.3	108.0	-2.8	-42.4	600	386	13 05 01	
13 20 00	3C395	16 20 24	54.0	109.3	-2.7	-42.0	293	386	13 20 00	
13 30 00	---	16 30 26	55.4	112.0	-2.6	-41.0	600	464	13 20 01	
13 40 00	3C395	16 40 28	56.8	114.9	-2.4	-40.0	593	464	13 40 00	
13 50 00	---	16 50 29	58.1	118.0	-2.2	-38.7	600	541	13 40 01	
13 55 00	3C395	16 55 30	58.8	119.6	-2.1	-38.0	293	541	13 55 00	
14 05 00	---	17 05 32	60.1	122.9	-2.0	-36.5	600	618	13 55 01	
14 10 00	3C395	17 10 33	60.7	124.7	-1.9	-35.6	293	618	14 10 00	
14 20 00	---	17 20 34	61.9	128.3	-1.7	-33.8	600	696	14 10 01	
14 25 00	3C395	17 25 35	62.5	130.2	-1.6	-32.7	293	696	14 25 00	
14 35 00	---	17 35 37	63.6	134.2	-1.5	-30.5	600	773	14 25 01	
14 40 00	3C395	17 40 38	64.2	136.3	-1.4	-29.3	292	773	14 40 00	
14 50 00	---	17 50 39	65.2	140.7	-1.2	-26.7	600	850	14 40 01	
14 55 00	3C395	17 55 40	65.6	143.0	-1.1	-25.2	292	850	14 55 00	
15 00 00	---	18 00 41	66.1	145.3	-1.1	-23.8	300	889	14 55 01	

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)
* 3C395	19 01 02.310064	* 19 02 55.938900	19 03 51.710995	0.02
J1902+3159	31 55 13.94285	* 31 59 41.70165	32 02 04.15623	0.02
1901+319	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1902+31	GSFC 2016a X/S astro solution, 2536 observations.			

ew039atr

EW039A
PI: Haochen Wang

Address: Department of Astronomy, USTC

Observing mode: vlbi

Schedule for TORUN (Code Tr)

Page 2

EW039A

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 17 Oct 2024 Day 291 ---										
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										

16 44 00	3C454.3	19 44 58	37.8	116.3	-3.2		-34.1	0	0	16 44 00
16 49 00	---	19 49 59	38.5	117.5	-3.1		-33.7	300	39	16 44 01
16 54 00	J2038-0025	19 55 00	35.8	166.2	-0.7		-8.2	190	39	16 54 00
16 56 00	---	19 57 00	35.8	166.8	-0.7		-7.9	120	54	16 54 01
16 56 00	J2038-0025	19 57 00	35.8	166.8	-0.7		-7.9	-5	54	No stop
17 00 00	---	20 01 01	36.0	168.1	-0.6		-7.1	235	85	16 56 01
17 00 00	J2039-0317	20 01 01	33.1	168.2	-0.7		-7.1	-25	85	No stop
17 01 30	=2036-034	20 02 31	33.1	168.7	-0.6		-6.8	65	97	17 00 01
17 01 30	J2038-0025	20 02 31	36.0	168.5	-0.6		-6.9	-25	97	No stop
17 05 30	---	20 06 32	36.1	169.8	-0.5		-6.1	215	128	17 01 31
17 06 10	J2039-0317	20 07 12	33.3	170.1	-0.6		-6.0	15	128	17 06 10
17 07 10	=2036-034	20 08 12	33.3	170.4	-0.5		-5.8	60	135	17 06 11
17 07 10	J2038-0025	20 08 12	36.2	170.3	-0.5		-5.8	-25	135	No stop
17 11 10	---	20 12 12	36.3	171.5	-0.5		-5.1	215	166	17 07 11
17 11 10	J2039-0317	20 12 12	33.4	171.5	-0.5		-5.1	-25	166	No stop
17 12 40	=2036-034	20 13 43	33.4	172.0	-0.4		-4.8	65	178	17 11 11
17 12 40	J2038-0025	20 13 43	36.3	172.0	-0.4		-4.8	-25	178	No stop
17 16 40	---	20 17 43	36.4	173.2	-0.4		-4.1	215	209	17 12 41
17 17 20	J2039-0317	20 18 23	33.5	173.4	-0.4		-4.0	15	209	17 17 20
17 18 20	=2036-034	20 19 24	33.5	173.7	-0.4		-3.8	60	216	17 17 21
17 18 20	J2038-0025	20 19 24	36.4	173.7	-0.3		-3.8	-25	216	No stop
17 22 20	---	20 23 24	36.5	175.0	-0.3		-3.0	215	247	17 18 21
17 22 20	J2039-0317	20 23 24	33.6	174.9	-0.3		-3.1	-25	247	No stop
17 23 50	=2036-034	20 24 55	33.6	175.3	-0.3		-2.8	65	259	17 22 21
17 23 50	J2038-0025	20 24 55	36.5	175.5	-0.2		-2.7	-25	259	No stop
17 27 50	---	20 28 55	36.5	176.7	-0.2		-2.0	215	290	17 23 51

Schedule for TORUN (Code Tr)

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EW039A

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 17 Oct 2024	Day 291					---				
17 28 30	J2039-0317	20 29 35	33.7	176.7	-0.2		-2.0	15	290	17 28 30	
17 29 30	=2036-034	20 30 35	33.7	177.0	-0.2		-1.8	60	298	17 28 31	
17 29 30	J2038-0025	20 30 35	36.5	177.2	-0.1		-1.7	-25	298	No stop	
17 33 30	---	20 34 36	36.6	178.5	-0.1		-0.9	215	328	17 29 31	
17 33 30	J2039-0317	20 34 36	33.7	178.2	-0.1		-1.1	-25	328	No stop	
17 35 00	=2036-034	20 36 06	33.7	178.7	-0.1		-0.8	65	340	17 33 31	
17 35 00	J2038-0025	20 36 06	36.6	178.9	-0.1		-0.6	-25	340	No stop	
17 39 00	---	20 40 07	36.6	180.2	0.0		0.1	215	371	17 35 01	
17 39 40	J2039-0317	20 40 47	33.7	180.1	0.0		0.1	15	371	17 39 40	
17 40 40	=2036-034	20 41 47	33.7	180.4	0.0		0.2	60	379	17 39 41	
17 42 10	J2136+0041	20 43 18	36.5	162.9	-0.9		-10.2	40	379	17 42 10	
17 44 10	=2134+00	20 45 18	36.6	163.5	-0.9		-9.8	120	394	17 42 11	
17 44 10	J2137+0012	20 45 18	36.0	163.3	-0.9		-9.9	-13	394	No stop	
17 48 10	---	20 49 19	36.2	164.5	-0.8		-9.2	227	425	17 44 11	
17 48 10	J2136+0041	20 49 19	36.7	164.8	-0.8		-9.1	-13	425	No stop	
17 49 40	=2134+00	20 50 49	36.8	165.2	-0.8		-8.8	77	437	17 48 11	
17 49 40	J2137+0012	20 50 49	36.3	165.0	-0.8		-9.0	-13	437	No stop	
17 53 40	---	20 54 49	36.4	166.2	-0.7		-8.2	227	468	17 49 41	
17 54 10	J2136+0041	20 55 20	37.0	166.6	-0.7		-8.0	17	468	17 54 10	
17 55 10	=2134+00	20 56 20	37.0	166.9	-0.7		-7.8	60	475	17 54 11	
17 55 10	J2137+0012	20 56 20	36.5	166.7	-0.7		-8.0	-13	475	No stop	
17 59 10	---	21 00 20	36.6	167.9	-0.6		-7.2	227	506	17 55 11	
17 59 10	J2136+0041	21 00 20	37.1	168.2	-0.6		-7.1	-13	506	No stop	
18 00 40	=2134+00	21 01 51	37.2	168.7	-0.6		-6.8	77	518	17 59 11	
18 00 40	J2137+0012	21 01 51	36.7	168.4	-0.6		-7.0	-13	518	No stop	
18 04 40	---	21 05 51	36.8	169.6	-0.6		-6.2	227	549	18 00 41	
18 05 10	J2136+0041	21 06 21	37.3	170.1	-0.5		-5.9	17	549	18 05 10	
18 06 10	=2134+00	21 07 21	37.3	170.4	-0.5		-5.8	60	556	18 05 11	
18 06 10	J2137+0012	21 07 21	36.8	170.1	-0.5		-5.9	-13	556	No stop	
18 10 10	---	21 11 22	36.9	171.3	-0.5		-5.2	227	587	18 06 11	
18 10 10	J2136+0041	21 11 22	37.4	171.6	-0.4		-5.0	-13	587	No stop	
18 11 40	=2134+00	21 12 52	37.5	172.1	-0.4		-4.7	77	599	18 10 11	

Schedule for TORUN (Code Tr)

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EW039A

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 17 Oct 2024 Day 291 ---										
18 11 40	J2137+0012	21 12 52	36.9	171.8	-0.4		-4.9	-13	599	No stop
18 15 40	---	21 16 53	37.0	173.0	-0.4		-4.2	227	630	18 11 41
18 16 10	J2136+0041	21 17 23	37.5	173.5	-0.3		-3.9	17	630	18 16 10
18 17 10	=2134+00	21 18 23	37.6	173.8	-0.3		-3.7	60	638	18 16 11
18 17 10	J2137+0012	21 18 23	37.0	173.5	-0.3		-3.9	-13	638	No stop
18 21 10	---	21 22 24	37.1	174.8	-0.3		-3.1	227	669	18 17 11
18 21 10	J2136+0041	21 22 24	37.6	175.1	-0.3		-2.9	-13	669	No stop
18 22 40	=2134+00	21 23 54	37.6	175.6	-0.2		-2.7	77	680	18 21 11
18 22 40	J2137+0012	21 23 54	37.1	175.2	-0.3		-2.9	-13	680	No stop
18 26 40	---	21 27 55	37.2	176.5	-0.2		-2.1	227	711	18 22 41
18 27 10	J2136+0041	21 28 25	37.7	177.0	-0.2		-1.8	17	711	18 27 10
18 28 10	=2134+00	21 29 25	37.7	177.3	-0.1		-1.6	60	719	18 27 11
18 29 40	J2219-0051	21 30 55	35.2	164.6	-0.8		-9.2	49	719	18 29 40
18 31 40	=2217-011	21 32 56	35.2	165.2	-0.8		-8.8	120	734	18 29 41
18 31 40	J2216-0057	21 32 56	35.3	166.3	-0.7		-8.2	-15	734	No stop
18 35 40	---	21 36 56	35.4	167.5	-0.7		-7.4	225	765	18 31 41
18 35 40	J2219-0051	21 36 56	35.4	166.4	-0.7		-8.1	-14	765	No stop
18 37 10	=2217-011	21 38 27	35.4	166.9	-0.7		-7.8	76	777	18 35 41
18 37 10	J2216-0057	21 38 27	35.5	168.0	-0.6		-7.2	-15	777	No stop
18 41 10	---	21 42 27	35.6	169.2	-0.6		-6.4	225	808	18 37 11
18 41 40	J2219-0051	21 42 57	35.6	168.3	-0.6		-7.0	16	808	18 41 40
18 42 40	=2217-011	21 43 57	35.6	168.6	-0.6		-6.8	60	815	18 41 41
18 42 40	J2216-0057	21 43 57	35.6	169.7	-0.6		-6.2	-15	815	No stop
18 46 40	---	21 47 58	35.7	170.9	-0.5		-5.4	225	846	18 42 41
18 46 40	J2219-0051	21 47 58	35.7	169.8	-0.6		-6.1	-14	846	No stop
18 48 10	=2217-011	21 49 28	35.8	170.2	-0.5		-5.8	76	858	18 46 41
18 48 10	J2216-0057	21 49 28	35.8	171.4	-0.5		-5.2	-15	858	No stop
18 52 10	---	21 53 29	35.8	172.6	-0.4		-4.4	225	889	18 48 11
18 52 40	J2219-0051	21 53 59	35.9	171.6	-0.5		-5.0	16	889	18 52 40
18 53 40	=2217-011	21 54 59	35.9	171.9	-0.4		-4.8	60	897	18 52 41

Schedule for TORUN (Code Tr)
EW039A

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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 17 Oct 2024 Day 291 ---										
18 53 40	J2216-0057	21 54 59	35.9	173.1	-0.4		-4.2	-15	897	No stop
18 57 40	---	21 59 00	35.9	174.3	-0.3		-3.4	225	927	18 53 41
18 57 40	J2219-0051	21 59 00	36.0	173.2	-0.4		-4.1	-14	927	No stop
18 59 10	=2217-011	22 00 30	36.0	173.6	-0.3		-3.8	76	939	18 57 41
18 59 10	J2216-0057	22 00 30	36.0	174.8	-0.3		-3.1	-15	939	No stop
19 03 10	---	22 04 31	36.0	176.0	-0.2		-2.4	225	970	18 59 11
19 03 40	J2219-0051	22 05 01	36.1	175.0	-0.3		-3.0	16	970	19 03 40
19 04 40	=2217-011	22 06 01	36.1	175.3	-0.3		-2.8	60	978	19 03 41
19 04 40	J2216-0057	22 06 01	36.0	176.5	-0.2		-2.1	-15	978	No stop
19 08 40	---	22 10 02	36.1	177.7	-0.1		-1.4	225	1009	19 04 41
19 08 40	J2219-0051	22 10 02	36.1	176.6	-0.2		-2.1	-14	1009	No stop
19 10 10	=2217-011	22 11 32	36.1	177.0	-0.2		-1.8	76	1020	19 08 41
19 10 10	J2216-0057	22 11 32	36.1	178.2	-0.1		-1.1	-15	1020	No stop
19 14 10	---	22 15 33	36.1	179.4	-0.0		-0.4	225	1051	19 10 11
19 14 40	J2219-0051	22 16 03	36.2	178.4	-0.1		-0.9	16	1051	19 14 40
19 15 40	=2217-011	22 17 03	36.2	178.8	-0.1		-0.7	60	1059	19 14 41
19 17 10	J2247+0000	22 18 33	36.7	170.6	-0.5		-5.7	58	1059	19 17 10
19 19 10	=2244-002	22 20 33	36.7	171.2	-0.5		-5.3	120	1074	19 17 11
19 19 10	J2239+1008	22 20 33	38.0	173.7	-0.3		-3.8	-19	1074	No stop
19 23 10	---	22 24 34	38.1	175.0	-0.3		-3.0	221	1105	19 19 11
19 23 10	J2247+0000	22 24 34	36.8	172.4	-0.4		-4.5	-19	1105	No stop
19 24 40	=2244-002	22 26 04	36.8	172.9	-0.4		-4.3	71	1117	19 23 11
19 24 40	J2239+1008	22 26 04	38.1	175.5	-0.2		-2.7	-20	1117	No stop
19 28 40	---	22 30 05	38.1	176.7	-0.2		-2.0	220	1148	19 24 41
19 29 20	J2247+0000	22 30 45	36.9	174.4	-0.3		-3.4	21	1148	19 29 20
19 30 20	=2244-002	22 31 45	36.9	174.7	-0.3		-3.2	60	1156	19 29 21
19 30 20	J2239+1008	22 31 45	38.1	177.3	-0.1		-1.6	-20	1156	No stop
19 34 20	---	22 35 46	38.2	178.5	-0.1		-0.9	220	1186	19 30 21
19 34 20	J2247+0000	22 35 46	37.0	175.9	-0.2		-2.4	-19	1186	No stop
19 35 50	=2244-002	22 37 16	37.0	176.4	-0.2		-2.2	71	1198	19 34 21

Schedule for TORUN (Code Tr)
EW039A

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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 17 Oct 2024 Day 291 ---										
19 35 50	J2239+1008	22 37 16	38.2	179.0	-0.1		-0.6	-20	1198	No stop
19 39 50	---	22 41 17	38.2	180.3	0.0		0.2	220	1229	19 35 51
19 40 30	J2247+0000	22 41 57	37.0	177.9	-0.1		-1.3	21	1229	19 40 30
19 41 30	=2244-002	22 42 57	37.0	178.2	-0.1		-1.1	60	1237	19 40 31
19 41 30	J2239+1008	22 42 57	38.2	180.8	0.0		0.5	-20	1237	No stop
19 45 30	---	22 46 58	38.2	182.1	0.1		1.3	220	1268	19 41 31
19 45 30	J2247+0000	22 46 58	37.0	179.4	-0.0		-0.3	-19	1268	No stop
19 47 00	=2244-002	22 48 28	37.0	179.9	-0.0		-0.1	71	1279	19 45 31
19 47 00	J2239+1008	22 48 28	38.1	182.6	0.1		1.5	-20	1279	No stop
19 51 00	---	22 52 29	38.1	183.8	0.2		2.3	220	1310	19 47 01
19 51 40	J2247+0000	22 53 09	37.0	181.4	0.1		0.8	21	1310	19 51 40
19 52 40	=2244-002	22 54 09	37.0	181.7	0.1		1.0	60	1318	19 51 41
19 52 40	J2239+1008	22 54 09	38.1	184.4	0.2		2.6	-20	1318	No stop
19 56 40	---	22 58 10	38.0	185.6	0.3		3.4	220	1349	19 52 41
19 56 40	J2247+0000	22 58 10	37.0	182.9	0.2		1.8	-20	1349	No stop
19 58 10	=2244-002	22 59 40	37.0	183.4	0.2		2.0	70	1360	19 56 41
19 58 10	J2239+1008	22 59 40	38.0	186.1	0.3		3.7	-20	1360	No stop
20 02 10	---	23 03 41	37.9	187.4	0.4		4.4	220	1391	19 58 11
20 02 50	J2247+0000	23 04 21	36.9	184.9	0.3		2.9	20	1391	20 02 50
20 03 50	=2244-002	23 05 21	36.9	185.2	0.3		3.1	60	1399	20 02 51
20 08 50	3C454.3	23 10 22	53.1	186.1	0.3		3.8	225	1399	20 08 50
20 13 50	---	23 15 22	53.0	188.1	0.3		5.0	300	1438	20 08 51
20 16 50	J2039-0317	23 18 23	24.7	224.3	2.6		24.9	61	1438	20 16 50
20 18 50	=2036-034	23 20 23	24.5	224.8	2.7		25.1	120	1453	20 16 51
20 18 50	J2038-0025	23 20 23	27.0	226.4	2.7		25.8	-23	1453	No stop
20 22 50	---	23 24 24	26.5	227.4	2.7		26.3	217	1484	20 18 51
20 22 50	J2039-0317	23 24 24	24.1	225.8	2.7		25.6	-23	1484	No stop
20 24 20	=2036-034	23 25 54	23.9	226.2	2.8		25.7	67	1496	20 22 51
20 24 20	J2038-0025	23 25 54	26.4	227.8	2.8		26.4	-23	1496	No stop
20 28 20	---	23 29 55	25.9	228.8	2.8		26.9	217	1527	20 24 21

Schedule for TORUN (Code Tr)

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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 17 Oct 2024 Day 291 ---										
20 29 00	J2039-0317	23 30 35	23.4	227.3	2.8		26.3	17	1527	20 29 00
20 30 00	=2036-034	23 31 35	23.3	227.6	2.9		26.4	60	1534	20 29 01
20 30 00	J2038-0025	23 31 35	25.7	229.2	2.9		27.1	-23	1534	No stop
20 34 00	---	23 35 36	25.3	230.2	2.9		27.5	217	1565	20 30 01
20 34 00	J2039-0317	23 35 36	22.8	228.6	2.9		26.8	-23	1565	No stop
20 35 30	=2036-034	23 37 06	22.7	228.9	2.9		27.0	67	1577	20 34 01
20 35 30	J2038-0025	23 37 06	25.1	230.6	3.0		27.6	-23	1577	No stop
20 39 30	---	23 41 07	24.6	231.6	3.0		28.1	217	1608	20 35 31
20 40 10	J2039-0317	23 41 47	22.1	230.0	3.0		27.5	17	1608	20 40 10
20 41 10	=2036-034	23 42 47	22.0	230.3	3.0		27.6	60	1615	20 40 11
20 41 10	J2038-0025	23 42 47	24.4	232.0	3.1		28.2	-23	1615	No stop
20 45 10	---	23 46 48	24.0	232.9	3.1		28.6	217	1646	20 41 11
20 45 10	J2039-0317	23 46 48	21.6	231.2	3.1		28.0	-23	1646	No stop
20 46 40	=2036-034	23 48 18	21.4	231.6	3.1		28.1	67	1658	20 45 11
20 46 40	J2038-0025	23 48 18	23.8	233.3	3.1		28.8	-23	1658	No stop
20 50 40	---	23 52 19	23.3	234.3	3.2		29.2	217	1689	20 46 41
20 51 20	J2039-0317	23 52 59	20.8	232.7	3.2		28.6	17	1689	20 51 20
20 52 20	=2036-034	23 53 59	20.7	232.9	3.2		28.7	60	1697	20 51 21
20 52 20	J2038-0025	23 53 59	23.1	234.7	3.2		29.3	-23	1697	No stop
20 56 20	---	23 57 59	22.6	235.6	3.3		29.7	217	1727	20 52 21
20 56 20	J2039-0317	23 57 59	20.2	233.9	3.3		29.1	-23	1727	No stop
20 57 50	=2036-034	23 59 30	20.0	234.2	3.3		29.2	67	1739	20 56 21
20 57 50	J2038-0025	23 59 30	22.4	236.0	3.3		29.8	-23	1739	No stop
21 01 50	---	00 03 30	21.9	236.9	3.4		30.2	217	1770	20 57 51
21 02 30	J2039-0317	00 04 10	19.5	235.3	3.4		29.6	17	1770	21 02 30
21 03 30	=2036-034	00 05 11	19.3	235.5	3.4		29.7	60	1778	21 02 31
21 05 00	J2136+0041	00 06 41	29.3	223.9	2.5		24.6	38	1778	21 05 00
21 07 00	=2134+00	00 08 41	29.1	224.4	2.5		24.8	120	1793	21 05 01
21 07 00	J2137+0012	00 08 41	28.8	223.9	2.5		24.6	-12	1793	No stop
21 11 00	---	00 12 42	28.4	224.9	2.6		25.1	228	1824	21 07 01

Schedule for TORUN (Code Tr)
EW039A

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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 17 Oct 2024 Day 291 ---										
21 11 00	J2136+0041	00 12 42	28.7	225.4	2.6		25.3	-12	1824	No stop
21 12 30	=2134+00	00 14 12	28.5	225.8	2.6		25.5	78	1836	21 11 01
21 12 30	J2137+0012	00 14 12	28.2	225.3	2.6		25.3	-12	1836	No stop
21 16 30	---	00 18 13	27.8	226.3	2.7		25.7	228	1867	21 12 31
21 17 00	J2136+0041	00 18 43	28.0	227.0	2.7		26.0	18	1867	21 17 00
21 18 00	=2134+00	00 19 43	27.9	227.2	2.7		26.2	60	1874	21 17 01
21 18 00	J2137+0012	00 19 43	27.6	226.7	2.7		25.9	-12	1874	No stop
21 22 00	---	00 23 44	27.2	227.7	2.7		26.4	228	1905	21 18 01
21 22 00	J2136+0041	00 23 44	27.5	228.3	2.8		26.6	-12	1905	No stop
21 23 30	=2134+00	00 25 14	27.3	228.6	2.8		26.8	78	1917	21 22 01
21 23 30	J2137+0012	00 25 14	27.0	228.1	2.8		26.5	-12	1917	No stop
21 27 30	---	00 29 15	26.5	229.1	2.8		27.0	228	1948	21 23 31
21 28 00	J2136+0041	00 29 45	26.8	229.8	2.9		27.3	18	1948	21 28 00
21 29 00	=2134+00	00 30 45	26.7	230.0	2.9		27.4	60	1955	21 28 01
21 29 00	J2137+0012	00 30 45	26.4	229.5	2.9		27.2	-11	1955	No stop
21 33 00	---	00 34 45	25.9	230.5	2.9		27.6	229	1986	21 29 01
21 33 00	J2136+0041	00 34 45	26.2	231.0	2.9		27.8	-12	1986	No stop
21 34 30	=2134+00	00 36 16	26.0	231.4	3.0		28.0	78	1998	21 33 01
21 34 30	J2137+0012	00 36 16	25.7	230.8	3.0		27.7	-11	1998	No stop
21 38 30	---	00 40 16	25.3	231.8	3.0		28.2	229	2029	21 34 31
21 39 00	J2136+0041	00 40 46	25.5	232.5	3.0		28.4	18	2029	21 39 00
21 40 00	=2134+00	00 41 47	25.4	232.7	3.1		28.5	60	2037	21 39 01
21 40 00	J2137+0012	00 41 47	25.1	232.2	3.0		28.3	-11	2037	No stop
21 44 00	---	00 45 47	24.6	233.1	3.1		28.7	229	2068	21 40 01
21 44 00	J2136+0041	00 45 47	24.9	233.7	3.1		28.9	-12	2068	No stop
21 45 30	=2134+00	00 47 18	24.7	234.1	3.2		29.1	78	2079	21 44 01
21 45 30	J2137+0012	00 47 18	24.4	233.5	3.1		28.9	-11	2079	No stop
21 49 30	---	00 51 18	23.9	234.5	3.2		29.3	229	2110	21 45 31
21 50 00	J2136+0041	00 51 48	24.2	235.1	3.2		29.5	18	2110	21 50 00
21 51 00	=2134+00	00 52 48	24.0	235.4	3.2		29.6	60	2118	21 50 01

Schedule for TORUN (Code Tr)
EW039A

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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 17 Oct 2024 Day 291 ---										
21 52 30	J2219-0051	00 54 19	27.4	224.3	2.6		24.8	52	2118	21 52 30
21 54 30	=2217-011	00 56 19	27.2	224.8	2.6		25.0	120	2133	21 52 31
21 54 30	J2216-0057	00 56 19	26.8	225.7	2.6		25.5	-14	2133	No stop
21 58 30	---	01 00 20	26.3	226.7	2.7		25.9	226	2164	21 54 31
21 58 30	J2219-0051	01 00 20	26.8	225.8	2.7		25.5	-13	2164	No stop
22 00 00	=2217-011	01 01 50	26.6	226.2	2.7		25.7	77	2176	21 58 31
22 00 00	J2216-0057	01 01 50	26.2	227.1	2.7		26.1	-13	2176	No stop
22 04 00	---	01 05 51	25.7	228.1	2.8		26.5	227	2207	22 00 01
22 04 30	J2219-0051	01 06 21	26.2	227.3	2.8		26.2	17	2207	22 04 30
22 05 30	=2217-011	01 07 21	26.0	227.6	2.8		26.3	60	2214	22 04 31
22 05 30	J2216-0057	01 07 21	25.5	228.5	2.8		26.7	-13	2214	No stop
22 09 30	---	01 11 21	25.1	229.4	2.9		27.1	227	2245	22 05 31
22 09 30	J2219-0051	01 11 21	25.6	228.6	2.8		26.8	-13	2245	No stop
22 11 00	=2217-011	01 12 52	25.4	229.0	2.9		26.9	77	2257	22 09 31
22 11 00	J2216-0057	01 12 52	24.9	229.8	2.9		27.3	-13	2257	No stop
22 15 00	---	01 16 52	24.5	230.8	3.0		27.7	227	2288	22 11 01
22 15 30	J2219-0051	01 17 22	24.9	230.1	2.9		27.4	17	2288	22 15 30
22 16 30	=2217-011	01 18 23	24.8	230.3	3.0		27.5	60	2296	22 15 31
22 16 30	J2216-0057	01 18 23	24.3	231.2	3.0		27.9	-13	2296	No stop
22 20 30	---	01 22 23	23.8	232.1	3.1		28.3	227	2326	22 16 31
22 20 30	J2219-0051	01 22 23	24.3	231.3	3.0		27.9	-13	2326	No stop
22 22 00	=2217-011	01 23 54	24.1	231.7	3.0		28.1	77	2338	22 20 31
22 22 00	J2216-0057	01 23 54	23.6	232.5	3.1		28.4	-13	2338	No stop
22 26 00	---	01 27 54	23.2	233.4	3.2		28.8	227	2369	22 22 01
22 26 30	J2219-0051	01 28 24	23.6	232.7	3.1		28.6	17	2369	22 26 30
22 27 30	=2217-011	01 29 24	23.5	233.0	3.1		28.7	60	2377	22 26 31
22 27 30	J2216-0057	01 29 24	23.0	233.8	3.2		29.0	-13	2377	No stop
22 31 30	---	01 33 25	22.5	234.8	3.3		29.4	227	2408	22 27 31
22 31 30	J2219-0051	01 33 25	23.0	233.9	3.2		29.0	-13	2408	No stop
22 33 00	=2217-011	01 34 55	22.8	234.3	3.2		29.2	77	2419	22 31 31

Schedule for TORUN (Code Tr)
EW039A

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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 17 Oct 2024 Day 291 ---										
22 33 00	J2216-0057	01 34 55	22.3	235.1	3.3		29.5	-14	2419	No stop
22 37 00	---	01 38 56	21.8	236.0	3.4		29.9	226	2450	22 33 01
22 37 30	J2219-0051	01 39 26	22.3	235.4	3.3		29.6	17	2450	22 37 30
22 38 30	=2217-011	01 40 26	22.1	235.6	3.3		29.7	60	2458	22 37 31
22 40 00	J2247+0000	01 41 56	26.0	229.7	2.9		27.3	61	2458	22 40 00
22 42 00	=2244-002	01 43 57	25.8	230.2	2.9		27.5	120	2473	22 40 01
22 42 00	J2239+1008	01 43 57	25.8	232.9	3.1		28.6	-20	2473	No stop
22 46 00	---	01 47 57	25.3	233.9	3.1		29.0	220	2504	22 42 01
22 46 00	J2247+0000	01 47 57	25.3	231.2	3.0		27.9	-19	2504	No stop
22 47 30	=2244-002	01 49 28	25.2	231.6	3.0		28.1	71	2516	22 46 01
22 47 30	J2239+1008	01 49 28	25.2	234.2	3.2		29.2	-20	2516	No stop
22 51 30	---	01 53 28	24.7	235.2	3.2		29.5	220	2547	22 47 31
22 52 10	J2247+0000	01 54 08	24.6	232.7	3.1		28.5	21	2547	22 52 10
22 53 10	=2244-002	01 55 09	24.5	233.0	3.1		28.6	60	2554	22 52 11
22 53 10	J2239+1008	01 55 09	24.5	235.6	3.2		29.7	-20	2554	No stop
22 57 10	---	01 59 09	24.0	236.5	3.3		30.1	220	2585	22 53 11
22 57 10	J2247+0000	01 59 09	24.0	233.9	3.2		29.0	-19	2585	No stop
22 58 40	=2244-002	02 00 40	23.8	234.3	3.2		29.2	71	2597	22 57 11
22 58 40	J2239+1008	02 00 40	23.8	236.9	3.3		30.2	-20	2597	No stop
23 02 40	---	02 04 40	23.3	237.8	3.4		30.6	220	2628	22 58 41
23 03 20	J2247+0000	02 05 20	23.2	235.4	3.3		29.6	21	2628	23 03 20
23 04 20	=2244-002	02 06 20	23.1	235.6	3.3		29.7	60	2636	23 03 21
23 04 20	J2239+1008	02 06 20	23.0	238.2	3.4		30.7	-20	2636	No stop
23 08 20	---	02 10 21	22.5	239.2	3.5		31.0	220	2667	23 04 21
23 08 20	J2247+0000	02 10 21	22.6	236.6	3.4		30.1	-19	2667	No stop
23 09 50	=2244-002	02 11 51	22.4	236.9	3.4		30.2	71	2678	23 08 21
23 09 50	J2239+1008	02 11 51	22.3	239.5	3.5		31.2	-20	2678	No stop
23 13 50	---	02 15 52	21.8	240.4	3.6		31.5	220	2709	23 09 51
23 14 30	J2247+0000	02 16 32	21.8	238.0	3.5		30.6	21	2709	23 14 30
23 15 30	=2244-002	02 17 32	21.7	238.3	3.5		30.7	60	2717	23 14 31

Schedule for TORUN (Code Tr)
EW039A

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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 17 Oct 2024 Day 291 ---

```
23 15 30  J2239+1008  02 17 32  21.6 240.8  3.6      31.6  -19   2717  No stop
23 19 30  ---          02 21 33  21.1 241.7  3.7      31.9  221   2748  23 15 31

23 19 30  J2247+0000  02 21 33  21.2 239.2  3.5      31.0  -19   2748  No stop
23 21 00  =2244-002   02 23 03  21.0 239.5  3.6      31.2   71   2759  23 19 31

23 25 00  3C454.3     02 27 04  34.8 249.0  3.5      35.7  173   2759  23 25 00
23 30 00  ---          02 32 05  34.1 250.2  3.6      36.1  300   2798  23 25 01
```

SETUP FILE INFORMATION:

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

==== Setup file: sess324.L1024

```
Setup group:    7          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: 13 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: 13

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)
* J2239+1008	22 36 32.945346	* 22 39 06.311544	22 40 22.982169	0.00
	00 52 28.00135	* 01 08 06.42887	01 15 56.47948	0.00
* J2216-0057	22 13 34.561959	* 22 16 08.897431	22 17 25.951614	0.00
	-01 12 06.81858	*-00 57 08.26690	-00 49 38.96553	0.00
* J2137+0012	21 35 14.724748	* 21 37 48.443418	21 39 04.993930	0.00
	-00 01 12.14226	* 00 12 19.97864	00 19 06.06476	0.00
* J2038-0025	20 35 40.317904	* 20 38 14.568862	20 39 31.070002	0.00
	-00 36 12.59407	*-00 25 38.65379	-00 20 21.92735	0.00
* 3C286	13 28 49.657769	* 13 31 08.288061	13 32 15.643971	0.17
J1331+3030	30 45 58.64066	* 30 30 32.95930	30 22 58.27206	0.16
1328+307	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1331+30	GSFC 2016a X/S astro solution, 269 observations.			
2036-034	20 36 33.157031	* 20 39 09.984874	20 40 27.777353	0.17
* J2039-0317	-03 27 51.41561	*-03 17 14.41713	-03 11 57.05980	0.41
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 86 observations.			
2134+00	21 34 05.207370	* 21 36 38.586305	21 37 54.960264	0.72
* J2136+0041	00 28 25.07986	* 00 41 54.21269	00 48 38.94079	1.22
2134+004	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J2136+00	GSFC 2016a X/S astro solution, 28569 observations.			
2217-011	22 17 13.011361	* 22 19 47.282457	22 21 04.321803	0.13
* J2219-0051	-01 06 38.04268	*-00 51 32.55627	-00 43 59.72032	0.31
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 124 observations.			
2244-002	22 44 56.371283	* 22 47 30.195992	22 48 47.137690	0.06
* J2247+0000	-00 15 44.21888	* 00 00 06.46238	00 08 02.48300	0.13

/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc
GSFC 2016a X/S astro solution, 158 observations.

* 3C454.3	22 51 29.519739	* 22 53 57.747939	22 55 11.882674	0.65
J2253+1608	15 52 54.34808	* 16 08 53.56091	16 16 57.34566	0.73
2251+158	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J2253+16	GSFC 2016a X/S astro solution, 41272 observations.			

MAPPING THE CIRCUMSTELLAR OH MASERS OF NSV17351

PI: Akiharu Nakagawa

Address: Kagoshima University, Faculty of Science

Observing mode: vlbi

Schedule for TORUN (Code Tr) Page 2

Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
Next scan frequencies:		1595.98	1595.98	1627.98	1627.98	1649.98	1649.98	1704.48	1704.48	
Next BBC frequencies:		704.02	704.02	672.02	672.02	650.02	650.02	595.52	595.52	
Next scan bandwidths:		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	

00 30 00	J0555+3948	03 32 15	62.1	103.7	-2.4		-49.4	0	0	00 30 00
00 34 00	=0552+398	03 36 15	62.7	104.8	-2.4		-49.1	240	31	00 30 01
00 37 00	J0702-1015	03 39 16	13.2	128.1	-3.4		-28.7	-20	31	00 37 00
00 38 30	=0700-101	03 40 46	13.4	128.4	-3.4		-28.6	70	43	00 37 01
00 38 30	NSV17351	03 40 46	12.3	127.5	-3.5		-29.0	-17	43	No stop
00 42 10	---	03 44 27	12.8	128.3	-3.4		-28.6	203	71	00 38 31
00 42 40	J0702-1015	03 44 57	13.8	129.4	-3.3		-28.1	13	71	00 42 40
00 44 00	=0700-101	03 46 17	14.0	129.7	-3.3		-28.0	80	81	00 42 41
00 44 00	NSV17351	03 46 17	13.0	128.8	-3.4		-28.5	-17	81	No stop
00 47 40	---	03 49 57	13.4	129.6	-3.3		-28.1	203	109	00 44 01
00 47 40	J0702-1015	03 49 57	14.4	130.5	-3.2		-27.6	-17	109	No stop
00 49 00	=0700-101	03 51 18	14.6	130.8	-3.2		-27.5	63	120	00 47 41
00 49 00	NSV17351	03 51 18	13.5	129.9	-3.3		-28.0	-17	120	No stop
00 52 40	---	03 54 58	14.0	130.7	-3.2		-27.6	203	148	00 49 01
00 53 10	J0702-1015	03 55 28	15.0	131.7	-3.1		-27.1	13	148	00 53 10
00 54 30	=0700-101	03 56 49	15.2	132.1	-3.1		-26.9	80	158	00 53 11
00 54 30	NSV17351	03 56 49	14.2	131.1	-3.2		-27.4	-17	158	No stop
00 58 10	---	04 00 29	14.6	131.9	-3.1		-27.0	203	187	00 54 31
00 58 10	J0702-1015	04 00 29	15.6	132.9	-3.1		-26.6	-17	187	No stop
00 59 30	=0700-101	04 01 49	15.8	133.2	-3.0		-26.4	63	197	00 58 11
00 59 30	NSV17351	04 01 49	14.7	132.2	-3.1		-26.9	-16	197	No stop
01 03 10	---	04 05 30	15.1	133.1	-3.1		-26.5	204	225	00 59 31
01 03 40	J0702-1015	04 06 00	16.2	134.2	-3.0		-26.0	13	225	01 03 40
01 05 00	=0700-101	04 07 20	16.3	134.5	-2.9		-25.8	80	236	01 03 41
01 05 00	NSV17351	04 07 20	15.3	133.5	-3.0		-26.3	-16	236	No stop
01 08 40	---	04 11 01	15.7	134.3	-3.0		-25.9	204	264	01 05 01

Schedule for TORUN (Code Tr)

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Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024	Day 292					---				
01 08 40	J0702-1015	04 11 01	16.7	135.3	-2.9		-25.4	-17	264	No stop	
01 10 00	=0700-101	04 12 21	16.9	135.6	-2.9		-25.3	63	274	01 08 41	
01 10 00	NSV17351	04 12 21	15.9	134.6	-2.9		-25.8	-16	274	No stop	
01 13 40	---	04 16 02	16.3	135.5	-2.9		-25.4	204	303	01 10 01	
01 14 10	J0702-1015	04 16 32	17.3	136.6	-2.8		-24.8	13	303	01 14 10	
01 15 30	=0700-101	04 17 52	17.5	136.9	-2.8		-24.6	80	313	01 14 11	
01 15 30	NSV17351	04 17 52	16.5	135.9	-2.9		-25.2	-16	313	No stop	
01 19 10	---	04 21 33	16.9	136.8	-2.8		-24.8	204	341	01 15 31	
01 19 10	J0702-1015	04 21 33	17.8	137.8	-2.7		-24.2	-17	341	No stop	
01 20 30	=0700-101	04 22 53	18.0	138.1	-2.7		-24.1	63	352	01 19 11	
01 20 30	NSV17351	04 22 53	17.0	137.1	-2.8		-24.6	-16	352	No stop	
01 24 10	---	04 26 33	17.4	137.9	-2.7		-24.2	204	380	01 20 31	
01 24 40	J0702-1015	04 27 04	18.4	139.1	-2.6		-23.6	14	380	01 24 40	
01 26 00	=0700-101	04 28 24	18.5	139.4	-2.6		-23.4	80	390	01 24 41	
01 26 00	NSV17351	04 28 24	17.5	138.4	-2.7		-24.0	-16	390	No stop	
01 29 40	---	04 32 04	17.9	139.2	-2.6		-23.5	204	419	01 26 01	
01 29 40	J0702-1015	04 32 04	18.9	140.3	-2.5		-23.0	-16	419	No stop	
01 31 00	=0700-101	04 33 25	19.0	140.6	-2.5		-22.8	64	429	01 29 41	
01 31 00	NSV17351	04 33 25	18.0	139.6	-2.6		-23.4	-16	429	No stop	
01 34 40	---	04 37 05	18.4	140.4	-2.5		-22.9	204	457	01 31 01	
01 35 10	J0702-1015	04 37 35	19.4	141.6	-2.4		-22.3	14	457	01 35 10	
01 36 30	=0700-101	04 38 55	19.5	141.9	-2.4		-22.1	80	468	01 35 11	
01 36 30	NSV17351	04 38 55	18.6	140.9	-2.5		-22.7	-16	468	No stop	
01 40 10	---	04 42 36	18.9	141.7	-2.4		-22.2	204	496	01 36 31	
01 40 10	J0702-1015	04 42 36	19.8	142.8	-2.4		-21.6	-16	496	No stop	
01 41 30	=0700-101	04 43 56	20.0	143.1	-2.3		-21.5	64	506	01 40 11	
01 41 30	NSV17351	04 43 56	19.0	142.1	-2.4		-22.1	-16	506	No stop	
01 45 10	---	04 47 37	19.4	143.0	-2.4		-21.6	204	535	01 41 31	
01 45 40	J0702-1015	04 48 07	20.3	144.2	-2.3		-20.9	14	535	01 45 40	
01 47 00	=0700-101	04 49 27	20.5	144.5	-2.2		-20.8	80	545	01 45 41	
01 47 00	NSV17351	04 49 27	19.5	143.4	-2.3		-21.4	-16	545	No stop	
01 50 40	---	04 53 08	19.9	144.3	-2.3		-20.9	204	573	01 47 01	

Schedule for TORUN (Code Tr)

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Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
01 50 40	J0702-1015	04 53 08	20.8	145.4	-2.2		-20.3	-16	573	No stop
01 52 00	=0700-101	04 54 28	20.9	145.7	-2.2		-20.1	64	584	01 50 41
01 52 00	NSV17351	04 54 28	20.0	144.6	-2.2		-20.7	-16	584	No stop
01 55 40	---	04 58 09	20.3	145.5	-2.2		-20.2	204	612	01 52 01
01 56 10	J0702-1015	04 58 39	21.2	146.8	-2.1		-19.5	14	612	01 56 10
01 57 30	=0700-101	04 59 59	21.3	147.1	-2.1		-19.4	80	622	01 56 11
01 57 30	NSV17351	04 59 59	20.5	146.0	-2.2		-20.0	-16	622	No stop
02 01 10	---	05 03 40	20.8	146.9	-2.1		-19.5	204	651	01 57 31
02 01 10	J0702-1015	05 03 40	21.6	148.0	-2.0		-18.9	-16	651	No stop
02 02 30	=0700-101	05 05 00	21.7	148.3	-2.0		-18.7	64	661	02 01 11
02 02 30	NSV17351	05 05 00	20.9	147.2	-2.1		-19.3	-16	661	No stop
02 06 10	---	05 08 40	21.2	148.1	-2.0		-18.8	204	689	02 02 31
02 06 40	J0702-1015	05 09 10	22.1	149.4	-1.9		-18.1	14	689	02 06 40
02 08 00	=0700-101	05 10 31	22.2	149.7	-1.9		-17.9	80	699	02 06 41
02 08 00	NSV17351	05 10 31	21.3	148.6	-2.0		-18.6	-16	699	No stop
02 11 40	---	05 14 11	21.6	149.5	-1.9		-18.1	204	728	02 08 01
02 11 40	J0702-1015	05 14 11	22.4	150.7	-1.8		-17.4	-16	728	No stop
02 13 00	=0700-101	05 15 31	22.5	151.0	-1.8		-17.2	64	738	02 11 41
02 13 00	NSV17351	05 15 31	21.7	149.8	-1.9		-17.9	-16	738	No stop
02 16 40	---	05 19 12	22.0	150.8	-1.8		-17.4	204	766	02 13 01
02 17 10	J0702-1015	05 19 42	22.8	152.1	-1.7		-16.6	14	766	02 17 10
02 18 30	=0700-101	05 21 02	22.9	152.4	-1.7		-16.4	80	777	02 17 11
02 18 30	NSV17351	05 21 02	22.1	151.2	-1.8		-17.1	-15	777	No stop
02 22 10	---	05 24 43	22.4	152.2	-1.7		-16.6	205	805	02 18 31
02 22 10	J0702-1015	05 24 43	23.2	153.4	-1.7		-15.9	-16	805	No stop
02 23 30	=0700-101	05 26 03	23.3	153.7	-1.6		-15.7	64	815	02 22 11
02 23 30	NSV17351	05 26 03	22.5	152.5	-1.7		-16.4	-15	815	No stop
02 27 10	---	05 29 44	22.7	153.5	-1.7		-15.9	205	844	02 23 31
02 27 40	J0702-1015	05 30 14	23.6	154.8	-1.6		-15.1	15	844	02 27 40
02 29 00	=0700-101	05 31 34	23.6	155.1	-1.5		-14.9	80	854	02 27 41

Schedule for TORUN (Code Tr)

Page 5

Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
02 29 00	NSV17351	05 31 34	22.8	153.9	-1.6		-15.6	-15	854	No stop
02 32 40	---	05 35 15	23.1	154.9	-1.6		-15.0	205	882	02 29 01
02 32 40	J0702-1015	05 35 15	23.9	156.1	-1.5		-14.3	-15	882	No stop
02 34 00	=0700-101	05 36 35	23.9	156.4	-1.5		-14.1	65	893	02 32 41
02 34 00	NSV17351	05 36 35	23.2	155.2	-1.5		-14.8	-15	893	No stop
02 37 40	---	05 40 16	23.4	156.2	-1.5		-14.3	205	921	02 34 01
02 38 10	J0702-1015	05 40 46	24.2	157.5	-1.4		-13.5	15	921	02 38 10
02 39 30	=0700-101	05 42 06	24.3	157.9	-1.4		-13.3	80	931	02 38 11
02 39 30	NSV17351	05 42 06	23.5	156.6	-1.4		-14.0	-15	931	No stop
02 43 10	---	05 45 46	23.7	157.6	-1.4		-13.5	205	960	02 39 31
02 43 10	J0702-1015	05 45 46	24.5	158.8	-1.3		-12.7	-15	960	No stop
02 44 30	=0700-101	05 47 07	24.5	159.2	-1.3		-12.5	65	970	02 43 11
02 44 30	NSV17351	05 47 07	23.8	157.9	-1.4		-13.3	-15	970	No stop
02 48 10	---	05 50 47	24.0	158.9	-1.3		-12.7	205	998	02 44 31
02 48 40	J0702-1015	05 51 17	24.8	160.3	-1.2		-11.9	15	998	02 48 40
02 50 00	=0700-101	05 52 38	24.8	160.7	-1.2		-11.7	80	1009	02 48 41
02 50 00	NSV17351	05 52 38	24.1	159.4	-1.3		-12.4	-15	1009	No stop
02 53 40	---	05 56 18	24.3	160.4	-1.2		-11.9	205	1037	02 50 01
02 53 40	J0702-1015	05 56 18	25.0	161.6	-1.1		-11.1	-15	1037	No stop
02 55 00	=0700-101	05 57 38	25.1	162.0	-1.1		-10.9	65	1047	02 53 41
02 55 00	NSV17351	05 57 38	24.3	160.7	-1.2		-11.6	-15	1047	No stop
02 58 40	---	06 01 19	24.5	161.7	-1.1		-11.1	205	1076	02 55 01
02 59 10	J0702-1015	06 01 49	25.3	163.1	-1.0		-10.2	15	1076	02 59 10
03 00 30	=0700-101	06 03 09	25.3	163.5	-1.0		-10.0	80	1086	02 59 11
03 00 30	NSV17351	06 03 09	24.6	162.2	-1.1		-10.8	-15	1086	No stop
03 04 10	---	06 06 50	24.8	163.2	-1.0		-10.2	205	1114	03 00 31
03 04 10	J0702-1015	06 06 50	25.5	164.5	-0.9		-9.4	-15	1114	No stop
03 05 30	=0700-101	06 08 10	25.5	164.8	-0.9		-9.2	65	1125	03 04 11
03 05 30	NSV17351	06 08 10	24.8	163.5	-1.0		-10.0	-15	1125	No stop
03 09 40	---	06 12 21	25.0	164.6	-0.9		-9.3	235	1157	03 05 31

Schedule for TORUN (Code Tr)

Page 6

Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
03 10 10	J0702-1015	06 12 51	25.7	166.1	-0.8		-8.4	15	1157	03 10 10
03 11 30	=0700-101	06 14 11	25.7	166.4	-0.8		-8.2	80	1167	03 10 11
03 12 00	J0654-1053	06 14 41	25.4	168.9	-0.7		-6.7	11	1167	03 12 00
03 13 10	=0651-108	06 15 51	25.4	169.3	-0.7		-6.5	70	1176	03 12 01
03 13 40	J0702-1015	06 16 21	25.8	167.0	-0.8		-7.9	11	1176	03 13 40
03 15 00	=0700-101	06 17 42	25.9	167.4	-0.8		-7.7	80	1186	03 13 41
03 17 00	J0745+1011	06 19 42	43.6	149.7	-1.5		-17.9	40	1186	03 17 00
03 21 00	=0742+103	06 23 43	43.9	151.0	-1.4		-17.2	240	1217	03 17 01
03 23 00	J0702-1015	06 25 43	26.1	169.6	-0.6		-6.3	39	1217	03 23 00
03 24 30	=0700-101	06 27 13	26.1	170.0	-0.6		-6.1	90	1229	03 23 01
03 24 30	NSV17351	06 27 13	25.5	168.6	-0.7		-6.9	-15	1229	No stop
03 28 10	---	06 30 54	25.6	169.6	-0.6		-6.3	205	1257	03 24 31
03 28 40	J0702-1015	06 31 24	26.2	171.1	-0.5		-5.4	14	1257	03 28 40
03 30 00	=0700-101	06 32 44	26.3	171.5	-0.5		-5.2	80	1268	03 28 41
03 30 00	NSV17351	06 32 44	25.7	170.1	-0.6		-6.0	-15	1268	No stop
03 33 40	---	06 36 25	25.8	171.1	-0.5		-5.4	205	1296	03 30 01
03 33 40	J0702-1015	06 36 25	26.4	172.5	-0.5		-4.6	-16	1296	No stop
03 35 00	=0700-101	06 37 45	26.4	172.9	-0.4		-4.4	64	1306	03 33 41
03 35 00	NSV17351	06 37 45	25.8	171.5	-0.5		-5.2	-15	1306	No stop
03 38 40	---	06 41 26	25.9	172.5	-0.5		-4.6	205	1335	03 35 01
03 39 10	J0702-1015	06 41 56	26.4	174.0	-0.4		-3.7	14	1335	03 39 10
03 40 30	=0700-101	06 43 16	26.5	174.4	-0.3		-3.4	80	1345	03 39 11
03 40 30	NSV17351	06 43 16	25.9	173.0	-0.4		-4.3	-15	1345	No stop
03 44 10	---	06 46 56	26.0	174.0	-0.4		-3.7	205	1373	03 40 31
03 44 10	J0702-1015	06 46 56	26.5	175.4	-0.3		-2.8	-16	1373	No stop
03 45 30	=0700-101	06 48 17	26.5	175.7	-0.3		-2.6	64	1384	03 44 11
03 45 30	NSV17351	06 48 17	26.0	174.3	-0.3		-3.5	-15	1384	No stop
03 49 10	---	06 51 57	26.0	175.3	-0.3		-2.8	205	1412	03 45 31
03 49 40	J0702-1015	06 52 27	26.6	176.9	-0.2		-1.9	14	1412	03 49 40
03 51 00	=0700-101	06 53 48	26.6	177.3	-0.2		-1.7	80	1422	03 49 41

Schedule for TORUN (Code Tr)

Page 7

Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
03 51 00	NSV17351	06 53 48	26.1	175.8	-0.3		-2.5	-15	1422	No stop
03 54 40	---	06 57 28	26.1	176.8	-0.2		-1.9	205	1451	03 51 01
03 54 40	J0702-1015	06 57 28	26.6	178.3	-0.1		-1.1	-16	1451	No stop
03 56 00	=0700-101	06 58 48	26.6	178.6	-0.1		-0.8	64	1461	03 54 41
03 56 00	NSV17351	06 58 48	26.1	177.2	-0.2		-1.7	-15	1461	No stop
03 59 40	---	07 02 29	26.1	178.2	-0.1		-1.1	205	1489	03 56 01
04 00 10	J0702-1015	07 02 59	26.6	179.8	-0.0		-0.1	14	1489	04 00 10
04 01 30	=0700-101	07 04 19	26.6	180.2	0.0		0.1	80	1499	04 00 11
04 01 30	NSV17351	07 04 19	26.1	178.7	-0.1		-0.8	-16	1499	No stop
04 05 10	---	07 08 00	26.1	179.7	-0.0		-0.2	204	1528	04 01 31
04 05 10	J0702-1015	07 08 00	26.6	181.2	0.1		0.7	-16	1528	No stop
04 06 30	=0700-101	07 09 20	26.6	181.5	0.1		0.9	64	1538	04 05 11
04 06 30	NSV17351	07 09 20	26.1	180.1	0.0		0.1	-16	1538	No stop
04 10 10	---	07 13 01	26.1	181.1	0.1		0.7	204	1566	04 06 31
04 10 40	J0702-1015	07 13 31	26.6	182.7	0.2		1.6	14	1566	04 10 40
04 12 00	=0700-101	07 14 51	26.6	183.0	0.2		1.9	80	1577	04 10 41
04 12 00	NSV17351	07 14 51	26.1	181.6	0.1		1.0	-16	1577	No stop
04 15 40	---	07 18 32	26.1	182.6	0.2		1.6	204	1605	04 12 01
04 15 40	J0702-1015	07 18 32	26.5	184.1	0.2		2.5	-16	1605	No stop
04 17 00	=0700-101	07 19 52	26.5	184.4	0.3		2.7	64	1615	04 15 41
04 17 00	NSV17351	07 19 52	26.1	183.0	0.2		1.8	-16	1615	No stop
04 20 40	---	07 23 32	26.1	184.0	0.2		2.4	204	1644	04 17 01
04 21 10	J0702-1015	07 24 03	26.5	185.6	0.3		3.4	14	1644	04 21 10
04 22 30	=0700-101	07 25 23	26.5	185.9	0.4		3.6	80	1654	04 21 11
04 22 30	NSV17351	07 25 23	26.0	184.5	0.3		2.7	-16	1654	No stop
04 26 10	---	07 29 03	26.0	185.5	0.3		3.3	204	1682	04 22 31
04 26 10	J0702-1015	07 29 03	26.4	186.9	0.4		4.2	-16	1682	No stop
04 27 30	=0700-101	07 30 24	26.4	187.3	0.4		4.5	64	1693	04 26 11
04 27 30	NSV17351	07 30 24	26.0	185.8	0.4		3.6	-16	1693	No stop
04 31 10	---	07 34 04	25.9	186.8	0.4		4.2	204	1721	04 27 31

Schedule for TORUN (Code Tr)

Page 8

Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
04 31 40	J0702-1015	07 34 34	26.3	188.5	0.5		5.1	14	1721	04 31 40
04 33 00	=0700-101	07 35 54	26.2	188.8	0.5		5.4	80	1731	04 31 41
04 33 00	NSV17351	07 35 54	25.9	187.3	0.4		4.5	-16	1731	No stop
04 36 40	---	07 39 35	25.8	188.3	0.5		5.1	204	1760	04 33 01
04 36 40	J0702-1015	07 39 35	26.2	189.8	0.6		6.0	-16	1760	No stop
04 38 00	=0700-101	07 40 55	26.1	190.2	0.6		6.2	64	1770	04 36 41
04 38 00	NSV17351	07 40 55	25.8	188.7	0.5		5.3	-16	1770	No stop
04 42 10	---	07 45 06	25.7	189.8	0.6		6.0	234	1802	04 38 01
04 42 40	J0702-1015	07 45 36	26.0	191.5	0.7		7.0	14	1802	04 42 40
04 44 00	=0700-101	07 46 56	26.0	191.8	0.7		7.2	80	1812	04 42 41
04 44 30	J0654-1053	07 47 26	25.0	194.1	0.9		8.6	12	1812	04 44 30
04 45 40	=0651-108	07 48 37	25.0	194.4	0.9		8.8	70	1822	04 44 31
04 46 10	J0702-1015	07 49 07	25.9	192.4	0.8		7.5	12	1822	04 46 10
04 47 30	=0700-101	07 50 27	25.8	192.8	0.8		7.8	80	1832	04 46 11
04 47 30	NSV17351	07 50 27	25.5	191.3	0.7		6.9	-16	1832	No stop
04 51 10	---	07 54 07	25.4	192.3	0.8		7.5	204	1860	04 47 31
04 51 40	J0702-1015	07 54 38	25.7	193.9	0.8		8.4	14	1860	04 51 40
04 53 00	=0700-101	07 55 58	25.6	194.3	0.9		8.6	80	1870	04 51 41
04 53 00	NSV17351	07 55 58	25.3	192.8	0.8		7.8	-16	1870	No stop
04 56 40	---	07 59 38	25.2	193.8	0.8		8.4	204	1899	04 53 01
04 56 40	J0702-1015	07 59 38	25.5	195.3	0.9		9.2	-16	1899	No stop
04 58 00	=0700-101	08 00 59	25.5	195.6	1.0		9.5	64	1909	04 56 41
04 58 00	NSV17351	08 00 59	25.2	194.1	0.9		8.6	-16	1909	No stop
05 01 40	---	08 04 39	25.0	195.1	0.9		9.2	204	1937	04 58 01
05 02 10	J0702-1015	08 05 09	25.3	196.7	1.0		10.1	14	1937	05 02 10
05 03 30	=0700-101	08 06 29	25.2	197.1	1.0		10.3	80	1948	05 02 11
05 03 30	NSV17351	08 06 29	25.0	195.6	1.0		9.5	-16	1948	No stop
05 07 10	---	08 10 10	24.8	196.6	1.0		10.0	204	1976	05 03 31
05 07 10	J0702-1015	08 10 10	25.1	198.1	1.1		10.9	-16	1976	No stop
05 08 30	=0700-101	08 11 30	25.0	198.4	1.1		11.1	64	1986	05 07 11

Schedule for TORUN (Code Tr)

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Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
05 08 30	NSV17351	08 11 30	24.8	196.9	1.0		10.3	-16	1986	No stop
05 12 10	---	08 15 11	24.6	197.9	1.1		10.8	204	2015	05 08 31
05 12 40	J0702-1015	08 15 41	24.8	199.5	1.2		11.8	14	2015	05 12 40
05 14 00	=0700-101	08 17 01	24.7	199.9	1.2		12.0	80	2025	05 12 41
05 14 00	NSV17351	08 17 01	24.5	198.4	1.1		11.1	-16	2025	No stop
05 17 40	---	08 20 42	24.3	199.4	1.2		11.7	204	2053	05 14 01
05 17 40	J0702-1015	08 20 42	24.5	200.9	1.3		12.6	-16	2053	No stop
05 19 00	=0700-101	08 22 02	24.5	201.2	1.3		12.8	64	2064	05 17 41
05 19 00	NSV17351	08 22 02	24.3	199.7	1.2		11.9	-16	2064	No stop
05 22 40	---	08 25 43	24.1	200.7	1.3		12.5	204	2092	05 19 01
05 23 10	J0702-1015	08 26 13	24.2	202.3	1.4		13.4	14	2092	05 23 10
05 24 30	=0700-101	08 27 33	24.1	202.7	1.4		13.6	80	2102	05 23 11
05 24 30	NSV17351	08 27 33	24.0	201.2	1.3		12.8	-16	2102	No stop
05 28 10	---	08 31 14	23.8	202.1	1.4		13.3	204	2131	05 24 31
05 28 10	J0702-1015	08 31 14	23.9	203.6	1.5		14.2	-16	2131	No stop
05 29 30	=0700-101	08 32 34	23.8	204.0	1.5		14.4	64	2141	05 28 11
05 29 30	NSV17351	08 32 34	23.7	202.5	1.4		13.5	-16	2141	No stop
05 33 10	---	08 36 14	23.5	203.4	1.5		14.1	204	2169	05 29 31
05 33 40	J0702-1015	08 36 44	23.6	205.1	1.5		15.0	14	2169	05 33 40
05 35 00	=0700-101	08 38 05	23.5	205.4	1.6		15.2	80	2180	05 33 41
05 35 00	NSV17351	08 38 05	23.4	203.9	1.5		14.4	-16	2180	No stop
05 38 40	---	08 41 45	23.1	204.9	1.5		14.9	204	2208	05 35 01
05 38 40	J0702-1015	08 41 45	23.3	206.4	1.6		15.7	-16	2208	No stop
05 40 00	=0700-101	08 43 05	23.2	206.7	1.7		15.9	64	2218	05 38 41
05 40 00	NSV17351	08 43 05	23.0	205.2	1.6		15.1	-16	2218	No stop
05 43 40	---	08 46 46	22.8	206.2	1.6		15.6	204	2247	05 40 01
05 44 10	J0702-1015	08 47 16	22.9	207.8	1.7		16.5	14	2247	05 44 10
05 45 30	=0700-101	08 48 36	22.8	208.1	1.7		16.7	80	2257	05 44 11
05 45 30	NSV17351	08 48 36	22.7	206.6	1.7		15.9	-16	2257	No stop
05 49 10	---	08 52 17	22.4	207.6	1.7		16.4	204	2285	05 45 31

Schedule for TORUN (Code Tr)

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Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
05 49 10	J0702-1015	08 52 17	22.5	209.1	1.8		17.2	-16	2285	No stop
05 50 30	=0700-101	08 53 37	22.4	209.4	1.8		17.4	64	2296	05 49 11
05 50 30	NSV17351	08 53 37	22.3	207.9	1.7		16.6	-16	2296	No stop
05 54 10	---	08 57 18	22.1	208.9	1.8		17.2	204	2324	05 50 31
05 54 40	J0702-1015	08 57 48	22.1	210.5	1.9		18.0	14	2324	05 54 40
05 56 00	=0700-101	08 59 08	22.0	210.8	1.9		18.2	80	2334	05 54 41
05 56 00	NSV17351	08 59 08	21.9	209.3	1.8		17.4	-16	2334	No stop
05 59 40	---	09 02 49	21.7	210.2	1.9		17.9	204	2363	05 56 01
05 59 40	J0702-1015	09 02 49	21.7	211.7	2.0		18.7	-16	2363	No stop
06 01 00	=0700-101	09 04 09	21.6	212.1	2.0		18.9	64	2373	05 59 41
06 01 00	NSV17351	09 04 09	21.6	210.6	1.9		18.1	-16	2373	No stop
06 05 10	---	09 08 20	21.2	211.6	2.0		18.7	234	2405	06 01 01
06 05 40	J0702-1015	09 08 50	21.2	213.2	2.1		19.5	14	2405	06 05 40
06 07 00	=0700-101	09 10 10	21.1	213.6	2.1		19.7	80	2415	06 05 41
06 07 30	J0654-1053	09 10 40	19.8	215.5	2.3		20.8	12	2415	06 07 30
06 08 40	=0651-108	09 11 50	19.7	215.8	2.3		21.0	70	2424	06 07 31
06 09 10	J0702-1015	09 12 20	20.9	214.1	2.1		20.0	12	2424	06 09 10
06 10 30	=0700-101	09 13 40	20.8	214.4	2.2		20.2	80	2435	06 09 11
06 13 00	J0745+1011	09 16 11	43.4	211.0	1.5		18.3	51	2435	06 13 00
06 17 00	=0742+103	09 20 12	43.1	212.3	1.6		19.0	240	2466	06 13 01
06 19 00	J0702-1015	09 22 12	20.1	216.5	2.3		21.3	20	2466	06 19 00
06 20 30	=0700-101	09 23 42	20.0	216.9	2.3		21.5	90	2477	06 19 01
06 20 30	NSV17351	09 23 42	20.0	215.4	2.2		20.7	-16	2477	No stop
06 24 10	---	09 27 23	19.6	216.3	2.3		21.2	204	2506	06 20 31
06 24 40	J0702-1015	09 27 53	19.6	217.9	2.4		22.0	14	2506	06 24 40
06 26 00	=0700-101	09 29 13	19.5	218.2	2.4		22.2	80	2516	06 24 41
06 26 00	NSV17351	09 29 13	19.5	216.8	2.3		21.5	-16	2516	No stop
06 29 40	---	09 32 54	19.1	217.7	2.4		21.9	204	2544	06 26 01
06 29 40	J0702-1015	09 32 54	19.1	219.1	2.5		22.6	-16	2544	No stop
06 31 00	=0700-101	09 34 14	19.0	219.4	2.5		22.8	64	2554	06 29 41

Schedule for TORUN (Code Tr)

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Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
06 31 00	NSV17351	09 34 14	19.0	218.0	2.4		22.1	-16	2554	No stop
06 34 40	---	09 37 54	18.7	218.9	2.5		22.5	204	2583	06 31 01
06 35 10	J0702-1015	09 38 25	18.6	220.4	2.6		23.3	14	2583	06 35 10
06 36 30	=0700-101	09 39 45	18.4	220.7	2.6		23.5	80	2593	06 35 11
06 36 30	NSV17351	09 39 45	18.5	219.3	2.5		22.8	-16	2593	No stop
06 40 10	---	09 43 25	18.2	220.2	2.6		23.2	204	2621	06 36 31
06 40 10	J0702-1015	09 43 25	18.1	221.6	2.7		23.9	-16	2621	No stop
06 41 30	=0700-101	09 44 46	18.0	221.9	2.7		24.1	64	2632	06 40 11
06 41 30	NSV17351	09 44 46	18.0	220.5	2.6		23.4	-16	2632	No stop
06 45 10	---	09 48 26	17.7	221.4	2.7		23.8	204	2660	06 41 31
06 45 40	J0702-1015	09 48 56	17.5	222.9	2.8		24.6	14	2660	06 45 40
06 47 00	=0700-101	09 50 16	17.4	223.2	2.8		24.7	80	2670	06 45 41
06 47 00	NSV17351	09 50 16	17.5	221.8	2.7		24.0	-16	2670	No stop
06 50 40	---	09 53 57	17.1	222.7	2.7		24.5	204	2699	06 47 01
06 50 40	J0702-1015	09 53 57	17.0	224.1	2.8		25.1	-16	2699	No stop
06 52 00	=0700-101	09 55 17	16.9	224.4	2.9		25.3	64	2709	06 50 41
06 52 00	NSV17351	09 55 17	17.0	223.0	2.8		24.6	-16	2709	No stop
06 55 40	---	09 58 58	16.6	223.8	2.8		25.0	204	2737	06 52 01
06 56 10	J0702-1015	09 59 28	16.4	225.4	2.9		25.7	14	2737	06 56 10
06 57 30	=0700-101	10 00 48	16.3	225.7	3.0		25.9	80	2748	06 56 11
06 57 30	NSV17351	10 00 48	16.4	224.2	2.9		25.2	-16	2748	No stop
07 01 10	---	10 04 29	16.0	225.1	2.9		25.7	204	2776	06 57 31
07 01 10	J0702-1015	10 04 29	15.9	226.5	3.0		26.3	-16	2776	No stop
07 02 30	=0700-101	10 05 49	15.7	226.8	3.0		26.4	64	2786	07 01 11
07 02 30	NSV17351	10 05 49	15.9	225.4	2.9		25.8	-16	2786	No stop
07 06 10	---	10 09 30	15.5	226.2	3.0		26.2	204	2815	07 02 31
07 06 40	J0702-1015	10 10 00	15.3	227.8	3.1		26.9	14	2815	07 06 40
07 08 00	=0700-101	10 11 20	15.1	228.1	3.1		27.0	80	2825	07 06 41
07 08 00	NSV17351	10 11 20	15.3	226.7	3.0		26.4	-15	2825	No stop
07 11 40	---	10 15 01	14.9	227.5	3.1		26.8	205	2853	07 08 01

Schedule for TORUN (Code Tr)

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Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
07 11 40	J0702-1015	10 15 01	14.7	228.9	3.2		27.4	-16	2853	No stop
07 13 00	=0700-101	10 16 21	14.6	229.2	3.2		27.5	64	2864	07 11 41
07 13 00	NSV17351	10 16 21	14.7	227.8	3.1		26.9	-15	2864	No stop
07 16 40	---	10 20 01	14.3	228.6	3.2		27.3	205	2892	07 13 01
07 17 10	J0702-1015	10 20 31	14.1	230.2	3.3		27.9	14	2892	07 17 10
07 18 30	=0700-101	10 21 52	13.9	230.5	3.3		28.1	80	2902	07 17 11
07 18 30	NSV17351	10 21 52	14.1	229.1	3.2		27.5	-15	2902	No stop
07 22 10	---	10 25 32	13.7	229.9	3.3		27.9	205	2931	07 18 31
07 22 10	J0702-1015	10 25 32	13.5	231.3	3.4		28.4	-16	2931	No stop
07 23 30	=0700-101	10 26 52	13.3	231.6	3.4		28.6	64	2941	07 22 11
07 23 30	NSV17351	10 26 52	13.5	230.2	3.3		28.0	-15	2941	No stop
07 27 10	---	10 30 33	13.1	231.0	3.4		28.4	205	2969	07 23 31
07 27 40	J0702-1015	10 31 03	12.9	232.5	3.5		29.0	14	2969	07 27 40
07 29 00	=0700-101	10 32 23	12.7	232.8	3.5		29.1	80	2980	07 27 41
07 29 00	NSV17351	10 32 23	12.9	231.4	3.4		28.5	-15	2980	No stop
07 32 40	---	10 36 04	12.5	232.2	3.5		28.9	205	3008	07 29 01
07 32 40	J0702-1015	10 36 04	12.3	233.6	3.5		29.4	-16	3008	No stop
07 34 00	=0700-101	10 37 24	12.1	233.9	3.6		29.5	64	3018	07 32 41
07 34 00	NSV17351	10 37 24	12.3	232.5	3.5		29.0	-15	3018	No stop
07 37 40	---	10 41 05	11.9	233.3	3.5		29.4	205	3047	07 34 01
07 38 10	J0702-1015	10 41 35	11.6	234.8	3.6		29.9	14	3047	07 38 10
07 39 30	=0700-101	10 42 55	11.4	235.1	3.7		30.0	80	3057	07 38 11
07 39 30	NSV17351	10 42 55	11.6	233.7	3.6		29.5	-15	3057	No stop
07 43 10	---	10 46 36	11.2	234.5	3.6		29.8	205	3085	07 39 31
07 43 10	J0702-1015	10 46 36	11.0	235.9	3.7		30.4	-16	3085	No stop
07 44 30	=0700-101	10 47 56	10.8	236.2	3.7		30.5	64	3096	07 43 11
07 44 30	NSV17351	10 47 56	11.0	234.8	3.6		30.0	-15	3096	No stop
07 48 10	---	10 51 37	10.6	235.6	3.7		30.3	205	3124	07 44 31
07 48 40	J0702-1015	10 52 07	10.3	237.1	3.8		30.8	14	3124	07 48 40
07 50 00	=0700-101	10 53 27	10.1	237.4	3.8		30.9	80	3134	07 48 41

Schedule for TORUN (Code Tr)

Page 13

Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---										
07 50 00	NSV17351	10 53 27	10.3	236.0	3.7		30.4	-15	3134	No stop
07 53 40	---	10 57 07	9.9	236.8	3.8		30.8	205	3163	07 50 01
07 53 40	J0702-1015	10 57 07	9.6	238.2	3.9		31.2	-16	3163	No stop
07 55 00	=0700-101	10 58 28	9.5	238.4	3.9		31.3	64	3173	07 53 41
07 55 00	NSV17351	10 58 28	9.7	237.1	3.8		30.9	-15	3173	No stop
07 58 40	---	11 02 08	9.2	237.9	3.9		31.2	205	3201	07 55 01
07 59 10	J0702-1015	11 02 38	8.9	239.3	4.0		31.7	14	3201	07 59 10
08 00 30	=0700-101	11 03 59	8.8	239.6	4.0		31.8	80	3211	07 59 11
08 00 30	NSV17351	11 03 59	9.0	238.2	3.9		31.3	-15	3211	No stop
08 04 10	---	11 07 39	8.5	239.0	4.0		31.6	205	3240	08 00 31
08 04 10	J0702-1015	11 07 39	8.3	240.4	4.1		32.0	-16	3240	No stop
08 05 30	=0700-101	11 08 59	8.1	240.7	4.1		32.1	64	3250	08 04 11
08 05 30	NSV17351	11 08 59	8.4	239.3	4.0		31.7	-15	3250	No stop
08 09 10	---	11 12 40	7.9	240.1	4.1		32.0	205	3278	08 05 31
08 09 40	J0702-1015	11 13 10	7.6	241.5	4.2		32.4	14	3278	08 09 40
08 11 00	=0700-101	11 14 30	7.4	241.8	4.2		32.5	80	3289	08 09 41
08 11 00	NSV17351	11 14 30	7.7	240.5	4.1		32.1	-15	3289	No stop
08 14 40	---	11 18 11	7.2	241.2	4.2		32.4	205	3317	08 11 01
08 14 40	J0702-1015	11 18 11	6.9	242.6	4.2		32.8	-16	3317	No stop
08 16 00	=0700-101	11 19 31	6.7	242.9	4.3		32.9	64	3327	08 14 41
08 16 00	NSV17351	11 19 31	7.0	241.5	4.2		32.5	-15	3327	No stop
08 19 40	---	11 23 12	6.5	242.3	4.2		32.8	205	3356	08 16 01
08 20 10	J0702-1015	11 23 42	6.1	243.7	4.3		33.2	14	3356	08 20 10
08 21 30	=0700-101	11 25 02	6.0	244.0	4.4		33.3	80	3366	08 20 11
08 21 30	NSV17351	11 25 02	6.3	242.7	4.3		32.9	-15	3366	No stop
08 25 10	---	11 28 43	5.8	243.4	4.3		33.1	205	3394	08 21 31
08 25 10	J0702-1015	11 28 43	5.5	244.8	4.4		33.5	-16	3394	No stop
08 26 30	=0700-101	11 30 03	5.3	245.0	4.4		33.6	64	3405	08 25 11
08 26 30	NSV17351	11 30 03	5.6	243.7	4.4		33.2	-15	3405	No stop
08 30 10	---	11 33 43	5.1	244.5	4.4		33.5	205	3433	08 26 31

Schedule for TORUN (Code Tr)

Page 14

Mapping the circumstellar OH masers of NSV17351

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 18 Oct 2024 Day 292 ---

```
08 56 00  J0745+1011  11 59 38  24.0 254.1  4.2      35.9 1452    3433  08 56 00
09 00 00  =0742+103    12 03 38  23.5 255.0  4.3      36.1  240    3464  08 56 01
```

SETUP FILE INFORMATION:

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

==== Setup file: sess324.L1024usb

```
Setup group:    6          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=	U	U	U	U	U	U	U	U
IF SB =	L	L	L	L	L	L	L	L
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP
BBC =	1	9	2	10	3	11	4	12
BBC SB=	L	L	L	L	L	L	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= 1595.98 1595.98 1627.98 1627.98 1649.98 1649.98 1704.48 1704.48
 BBC fr= 704.02 704.02 672.02 672.02 650.02 650.02 595.52 595.52
 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)
* NSV17351	07 05 27.733426 -10 39 18.71482	* 07 07 49.387600 *-10 44 06.00500	07 08 59.656065 -10 46 11.98632	0.00 0.00
0700-101	07 00 13.623770	* 07 02 35.756819	07 03 46.295871	0.12
* J0702-1015	-10 10 41.11556	*-10 15 06.41742	-10 17 01.65938	0.28
	rfc_2024b Petrov and Kovalev, in preparation 433 observations			
0651-108	06 51 49.375054	* 06 54 10.639381	06 55 20.801162	0.17
* J0654-1053	-10 49 47.30755	*-10 53 36.96933	-10 55 14.34607	0.41
	rfc_2024b Petrov and Kovalev, in preparation 126 observations			
0552+398	05 52 01.407168	* 05 55 30.805611	05 57 15.205240	0.00
* J0555+3948	39 48 21.94581	* 39 48 49.16496	39 49 01.34400	0.00
DA193	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J0555+39	GSFC 2016a X/S astro solution, 415688 observations.			
0742+103	07 42 48.464622	* 07 45 33.059522	07 46 54.495519	0.01
* J0745+1011	10 18 32.65792	* 10 11 12.69227	10 07 43.38631	0.02
J0745+10	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 10335 observations			

ew039btr

EW039B

PI: Haochen Wang

Address: Department of Astronomy, USTC

Observing mode: vlbi

Schedule for TORUN (Code Tr)

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EW039B

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 19 Oct 2024 Day 293 ---										
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										

18 43 55	0234+285	21 53 06	33.6	85.3	-4.8		-43.1	0	0	18 43 55
18 48 55	---	21 58 07	34.3	86.2	-4.7		-43.2	300	39	18 43 56
18 53 55	J2348+0039	22 03 07	33.2	147.6	-1.8		-18.8	164	39	18 53 55
18 55 55	---	22 05 08	33.4	148.1	-1.7		-18.5	120	54	18 53 56
18 55 55	J2348+0039	22 05 08	33.4	148.1	-1.7		-18.5	-5	54	No stop
18 59 55	---	22 09 08	33.7	149.3	-1.7		-17.9	235	85	18 55 56
18 59 55	J2354-0019	22 09 08	32.3	148.0	-1.8		-18.5	-18	85	No stop
19 01 25	=2351-006	22 10 39	32.4	148.5	-1.7		-18.3	72	97	18 59 56
19 01 25	J2348+0039	22 10 39	33.8	149.7	-1.7		-17.6	-19	97	No stop
19 05 25	---	22 14 39	34.1	150.9	-1.6		-17.0	221	128	19 01 26
19 06 00	J2354-0019	22 15 14	32.8	149.8	-1.7		-17.6	17	128	19 06 00
19 07 00	=2351-006	22 16 15	32.9	150.0	-1.7		-17.4	60	135	19 06 01
19 07 00	J2348+0039	22 16 15	34.2	151.3	-1.6		-16.8	-19	135	No stop
19 11 00	---	22 20 15	34.5	152.5	-1.5		-16.1	221	166	19 07 01
19 11 00	J2354-0019	22 20 15	33.1	151.2	-1.6		-16.8	-18	166	No stop
19 12 30	=2351-006	22 21 45	33.3	151.6	-1.6		-16.6	72	178	19 11 01
19 12 30	J2348+0039	22 21 45	34.6	152.9	-1.5		-15.9	-18	178	No stop
19 16 30	---	22 25 46	34.9	154.1	-1.4		-15.2	222	209	19 12 31
19 17 05	J2354-0019	22 26 21	33.6	152.9	-1.5		-15.9	17	209	19 17 05
19 18 05	=2351-006	22 27 21	33.6	153.2	-1.5		-15.7	60	216	19 17 06
19 18 05	J2348+0039	22 27 21	35.0	154.6	-1.4		-14.9	-18	216	No stop
19 22 05	---	22 31 22	35.2	155.8	-1.3		-14.3	222	247	19 18 06
19 22 05	J2354-0019	22 31 22	33.9	154.4	-1.4		-15.0	-18	247	No stop
19 23 35	=2351-006	22 32 52	34.0	154.8	-1.4		-14.8	72	259	19 22 06
19 23 35	J2348+0039	22 32 52	35.3	156.2	-1.3		-14.0	-18	259	No stop
19 27 35	---	22 36 53	35.5	157.4	-1.2		-13.3	222	290	19 23 36

Schedule for TORUN (Code Tr)
EW039B

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	

---	Sat 19 Oct 2024	Day 293					---				
19 28 10	J2354-0019	22 37 28	34.3	156.2	-1.3		-14.0	17	290	19 28 10	
19 29 10	=2351-006	22 38 28	34.4	156.5	-1.3		-13.9	60	298	19 28 11	
19 29 10	J2348+0039	22 38 28	35.6	157.9	-1.2		-13.1	-18	298	No stop	
19 33 10	---	22 42 29	35.9	159.1	-1.1		-12.4	222	328	19 29 11	
19 33 10	J2354-0019	22 42 29	34.6	157.7	-1.2		-13.2	-18	328	No stop	
19 34 40	=2351-006	22 43 59	34.7	158.1	-1.2		-12.9	72	340	19 33 11	
19 34 40	J2348+0039	22 43 59	35.9	159.5	-1.1		-12.1	-18	340	No stop	
19 38 40	---	22 48 00	36.1	160.7	-1.0		-11.4	222	371	19 34 41	
19 39 15	J2354-0019	22 48 35	34.9	159.5	-1.1		-12.2	17	371	19 39 15	
19 40 15	=2351-006	22 49 35	35.0	159.8	-1.1		-12.0	60	379	19 39 16	
19 41 45	J0040-0146	22 51 05	30.5	147.2	-1.9		-19.0	49	379	19 41 45	
19 43 45	=0038-020	22 53 06	30.7	147.8	-1.8		-18.7	120	394	19 41 46	
19 43 45	J0043-0013	22 53 06	32.0	146.5	-1.9		-19.3	-18	394	No stop	
19 47 45	---	22 57 06	32.3	147.7	-1.8		-18.7	222	425	19 43 46	
19 47 45	J0040-0146	22 57 06	31.0	148.9	-1.8		-18.1	-18	425	No stop	
19 49 15	=0038-020	22 58 37	31.1	149.3	-1.7		-17.9	72	437	19 47 46	
19 49 15	J0043-0013	22 58 37	32.4	148.1	-1.8		-18.5	-18	437	No stop	
19 53 15	---	23 02 37	32.7	149.2	-1.7		-17.9	222	468	19 49 16	
19 53 50	J0040-0146	23 03 12	31.5	150.6	-1.7		-17.2	17	468	19 53 50	
19 54 50	=0038-020	23 04 12	31.6	150.9	-1.6		-17.0	60	475	19 53 51	
19 54 50	J0043-0013	23 04 12	32.9	149.7	-1.7		-17.7	-18	475	No stop	
19 58 50	---	23 08 13	33.1	150.8	-1.6		-17.0	222	506	19 54 51	
19 58 50	J0040-0146	23 08 13	31.8	152.0	-1.6		-16.4	-18	506	No stop	
20 00 20	=0038-020	23 09 43	31.9	152.4	-1.5		-16.1	72	518	19 58 51	
20 00 20	J0043-0013	23 09 43	33.3	151.2	-1.6		-16.8	-18	518	No stop	
20 04 20	---	23 13 44	33.5	152.4	-1.5		-16.2	222	549	20 00 21	
20 04 55	J0040-0146	23 14 19	32.3	153.7	-1.5		-15.4	17	549	20 04 55	
20 05 55	=0038-020	23 15 19	32.3	154.0	-1.4		-15.3	60	556	20 04 56	
20 05 55	J0043-0013	23 15 19	33.7	152.8	-1.5		-15.9	-18	556	No stop	
20 09 55	---	23 19 20	33.9	154.0	-1.4		-15.3	222	587	20 05 56	
20 09 55	J0040-0146	23 19 20	32.6	155.2	-1.4		-14.6	-18	587	No stop	
20 11 25	=0038-020	23 20 50	32.7	155.6	-1.4		-14.4	72	599	20 09 56	

Schedule for TORUN (Code Tr)

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EW039B

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 19 Oct 2024 Day 293 ---										
20 11 25	J0043-0013	23 20 50	34.0	154.4	-1.4		-15.0	-18	599	No stop
20 15 25	---	23 24 51	34.3	155.6	-1.3		-14.4	222	630	20 11 26
20 16 00	J0040-0146	23 25 26	33.0	156.9	-1.3		-13.6	17	630	20 16 00
20 17 00	=0038-020	23 26 26	33.0	157.2	-1.3		-13.4	60	638	20 16 01
20 17 00	J0043-0013	23 26 26	34.4	156.1	-1.3		-14.1	-19	638	No stop
20 21 00	---	23 30 27	34.6	157.3	-1.2		-13.4	221	669	20 17 01
20 21 00	J0040-0146	23 30 27	33.2	158.4	-1.2		-12.8	-18	669	No stop
20 22 30	=0038-020	23 31 57	33.3	158.8	-1.2		-12.5	72	680	20 21 01
20 22 30	J0043-0013	23 31 57	34.7	157.7	-1.2		-13.2	-19	680	No stop
20 26 30	---	23 35 58	34.9	158.9	-1.1		-12.5	221	711	20 22 31
20 27 05	J0040-0146	23 36 33	33.6	160.2	-1.1		-11.8	16	711	20 27 05
20 28 05	=0038-020	23 37 33	33.6	160.5	-1.1		-11.6	60	719	20 27 06
20 29 35	J0049+0237	23 39 03	37.5	157.1	-1.2		-13.5	62	719	20 29 35
20 31 35	=0047+023	23 41 03	37.6	157.7	-1.2		-13.2	120	734	20 29 36
20 31 35	J0046+0104	23 41 03	36.3	159.2	-1.1		-12.3	-18	734	No stop
20 35 35	---	23 45 04	36.5	160.4	-1.0		-11.6	222	765	20 31 36
20 35 35	J0049+0237	23 45 04	37.8	159.0	-1.1		-12.5	-18	765	No stop
20 37 05	=0047+023	23 46 34	37.9	159.4	-1.1		-12.2	72	777	20 35 36
20 37 05	J0046+0104	23 46 34	36.6	160.9	-1.0		-11.3	-18	777	No stop
20 41 05	---	23 50 35	36.8	162.1	-0.9		-10.6	222	808	20 37 06
20 41 40	J0049+0237	23 51 10	38.2	160.9	-1.0		-11.4	17	808	20 41 40
20 42 40	=0047+023	23 52 10	38.2	161.2	-1.0		-11.2	60	815	20 41 41
20 42 40	J0046+0104	23 52 10	36.9	162.6	-0.9		-10.3	-18	815	No stop
20 46 40	---	23 56 11	37.0	163.8	-0.9		-9.6	222	846	20 42 41
20 46 40	J0049+0237	23 56 11	38.4	162.4	-0.9		-10.5	-19	846	No stop
20 48 10	=0047+023	23 57 41	38.5	162.9	-0.9		-10.2	71	858	20 46 41
20 48 10	J0046+0104	23 57 41	37.1	164.3	-0.8		-9.3	-18	858	No stop
20 52 10	---	00 01 42	37.3	165.6	-0.8		-8.6	222	889	20 48 11
20 52 45	J0049+0237	00 02 17	38.7	164.3	-0.8		-9.3	16	889	20 52 45
20 53 45	=0047+023	00 03 17	38.7	164.7	-0.8		-9.2	60	897	20 52 46

Schedule for TORUN (Code Tr)

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EW039B

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 19 Oct 2024 Day 293 ---										
20 53 45	J0046+0104	00 03 17	37.3	166.0	-0.7		-8.3	-19	897	No stop
20 57 45	---	00 07 18	37.4	167.3	-0.7		-7.6	221	927	20 53 46
20 57 45	J0049+0237	00 07 18	38.9	165.9	-0.7		-8.4	-19	927	No stop
20 59 15	=0047+023	00 08 48	38.9	166.4	-0.7		-8.1	71	939	20 57 46
20 59 15	J0046+0104	00 08 48	37.5	167.8	-0.6		-7.3	-19	939	No stop
21 03 15	---	00 12 49	37.6	169.0	-0.6		-6.6	221	970	20 59 16
21 03 50	J0049+0237	00 13 24	39.1	167.9	-0.6		-7.3	16	970	21 03 50
21 04 50	=0047+023	00 14 24	39.1	168.2	-0.6		-7.1	60	978	21 03 51
21 04 50	J0046+0104	00 14 24	37.7	169.5	-0.6		-6.3	-19	978	No stop
21 08 50	---	00 18 25	37.8	170.8	-0.5		-5.5	221	1009	21 04 51
21 08 50	J0049+0237	00 18 25	39.2	169.5	-0.5		-6.3	-19	1009	No stop
21 10 20	=0047+023	00 19 55	39.3	170.0	-0.5		-6.0	71	1020	21 08 51
21 10 20	J0046+0104	00 19 55	37.8	171.3	-0.5		-5.2	-19	1020	No stop
21 14 20	---	00 23 56	37.9	172.5	-0.4		-4.5	221	1051	21 10 21
21 14 55	J0049+0237	00 24 31	39.4	171.4	-0.4		-5.1	16	1051	21 14 55
21 15 55	=0047+023	00 25 31	39.4	171.7	-0.4		-4.9	60	1059	21 14 56
21 17 25	J0057-0024	00 27 01	36.2	170.2	-0.5		-5.9	64	1059	21 17 25
21 19 25	=0054-006	00 29 01	36.3	170.8	-0.5		-5.5	120	1074	21 17 26
21 19 25	J0051+0041	00 29 01	37.5	172.5	-0.4		-4.5	-18	1074	No stop
21 23 25	---	00 33 02	37.6	173.8	-0.3		-3.7	222	1105	21 19 26
21 23 25	J0057-0024	00 33 02	36.4	172.1	-0.4		-4.8	-18	1105	No stop
21 24 55	=0054-006	00 34 32	36.4	172.5	-0.4		-4.5	72	1117	21 23 26
21 24 55	J0051+0041	00 34 32	37.6	174.2	-0.3		-3.5	-18	1117	No stop
21 28 55	---	00 38 33	37.7	175.5	-0.2		-2.7	222	1148	21 24 56
21 29 30	J0057-0024	00 39 08	36.5	174.0	-0.3		-3.6	17	1148	21 29 30
21 30 30	=0054-006	00 40 08	36.5	174.3	-0.3		-3.4	60	1156	21 29 31
21 30 30	J0051+0041	00 40 08	37.7	176.0	-0.2		-2.4	-18	1156	No stop
21 34 30	---	00 44 09	37.7	177.3	-0.1		-1.6	222	1186	21 30 31
21 34 30	J0057-0024	00 44 09	36.5	175.5	-0.2		-2.7	-17	1186	No stop
21 36 00	=0054-006	00 45 39	36.6	176.0	-0.2		-2.4	73	1198	21 34 31

Schedule for TORUN (Code Tr)

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EW039B

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 19 Oct 2024 Day 293 ---										
21 36 00	J0051+0041	00 45 39	37.7	177.7	-0.1		-1.4	-17	1198	No stop
21 40 00	---	00 49 40	37.7	179.0	-0.1		-0.6	223	1229	21 36 01
21 40 35	J0057-0024	00 50 15	36.6	177.4	-0.1		-1.6	18	1229	21 40 35
21 41 35	=0054-006	00 51 15	36.6	177.7	-0.1		-1.4	60	1237	21 40 36
21 41 35	J0051+0041	00 51 15	37.7	179.5	-0.0		-0.3	-17	1237	No stop
21 45 35	---	00 55 16	37.7	180.8	0.0		0.5	223	1268	21 41 36
21 45 35	J0057-0024	00 55 16	36.6	179.0	-0.1		-0.6	-17	1268	No stop
21 47 05	=0054-006	00 56 46	36.6	179.4	-0.0		-0.3	73	1279	21 45 36
21 47 05	J0051+0041	00 56 46	37.7	181.3	0.1		0.8	-17	1279	No stop
21 51 05	---	01 00 47	37.7	182.5	0.1		1.5	223	1310	21 47 06
21 51 40	J0057-0024	01 01 22	36.6	180.9	0.0		0.5	18	1310	21 51 40
21 52 40	=0054-006	01 02 22	36.6	181.2	0.1		0.7	60	1318	21 51 41
21 52 40	J0051+0041	01 02 22	37.7	183.0	0.2		1.8	-17	1318	No stop
21 56 40	---	01 06 22	37.7	184.3	0.2		2.6	223	1349	21 52 41
21 56 40	J0057-0024	01 06 22	36.6	182.4	0.1		1.5	-17	1349	No stop
21 58 10	=0054-006	01 07 53	36.6	182.9	0.2		1.7	73	1360	21 56 41
21 58 10	J0051+0041	01 07 53	37.6	184.8	0.3		2.9	-17	1360	No stop
22 02 10	---	01 11 53	37.6	186.0	0.3		3.6	223	1391	21 58 11
22 02 45	J0057-0024	01 12 28	36.6	184.3	0.2		2.6	18	1391	22 02 45
22 03 45	=0054-006	01 13 29	36.5	184.6	0.2		2.8	60	1399	22 02 46
22 08 45	3C454.3	01 18 29	43.8	231.1	2.4		29.1	194	1399	22 08 45
22 13 45	---	01 23 30	43.2	232.5	2.5		29.8	300	1438	22 08 46
22 16 45	J2354-0019	01 26 31	33.4	207.6	1.5		16.2	114	1438	22 16 45
22 18 45	=2351-006	01 28 31	33.3	208.2	1.6		16.5	120	1453	22 16 46
22 18 45	J2348+0039	01 28 31	33.8	210.2	1.6		17.6	-18	1453	No stop
22 22 45	---	01 32 32	33.5	211.3	1.7		18.2	222	1484	22 18 46
22 22 45	J2354-0019	01 32 32	33.0	209.4	1.6		17.1	-17	1484	No stop
22 24 15	=2351-006	01 34 02	32.9	209.8	1.6		17.4	73	1496	22 22 46
22 24 15	J2348+0039	01 34 02	33.4	211.7	1.7		18.4	-18	1496	No stop
22 28 15	---	01 38 03	33.1	212.9	1.8		19.0	222	1527	22 24 16

Schedule for TORUN (Code Tr)

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EW039B

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 19 Oct 2024 Day 293 ---										
22 28 50	J2354-0019	01 38 38	32.5	211.1	1.7		18.1	18	1527	22 28 50
22 29 50	=2351-006	01 39 38	32.5	211.4	1.7		18.2	60	1534	22 28 51
22 29 50	J2348+0039	01 39 38	32.9	213.3	1.8		19.3	-18	1534	No stop
22 33 50	---	01 43 39	32.6	214.5	1.9		19.9	222	1565	22 29 51
22 33 50	J2354-0019	01 43 39	32.1	212.5	1.8		18.8	-17	1565	No stop
22 35 20	=2351-006	01 45 09	32.0	212.9	1.8		19.0	73	1577	22 33 51
22 35 20	J2348+0039	01 45 09	32.5	214.9	1.9		20.1	-18	1577	No stop
22 39 20	---	01 49 09	32.1	216.0	2.0		20.7	222	1608	22 35 21
22 39 55	J2354-0019	01 49 45	31.6	214.2	1.9		19.7	18	1608	22 39 55
22 40 55	=2351-006	01 50 45	31.6	214.5	1.9		19.9	60	1615	22 39 56
22 40 55	J2348+0039	01 50 45	32.0	216.4	2.0		20.9	-18	1615	No stop
22 44 55	---	01 54 45	31.6	217.5	2.1		21.5	222	1646	22 40 56
22 44 55	J2354-0019	01 54 45	31.2	215.6	2.0		20.4	-17	1646	No stop
22 46 25	=2351-006	01 56 16	31.1	216.0	2.0		20.7	73	1658	22 44 56
22 46 25	J2348+0039	01 56 16	31.5	217.9	2.1		21.7	-18	1658	No stop
22 50 25	---	02 00 16	31.1	219.0	2.2		22.2	222	1689	22 46 26
22 51 00	J2354-0019	02 00 51	30.7	217.2	2.1		21.3	18	1689	22 51 00
22 52 00	=2351-006	02 01 52	30.6	217.5	2.1		21.4	60	1697	22 51 01
22 52 00	J2348+0039	02 01 52	31.0	219.4	2.2		22.4	-18	1697	No stop
22 56 00	---	02 05 52	30.6	220.5	2.3		23.0	222	1727	22 52 01
22 56 00	J2354-0019	02 05 52	30.2	218.6	2.2		22.0	-17	1727	No stop
22 57 30	=2351-006	02 07 22	30.1	219.0	2.2		22.2	73	1739	22 56 01
22 57 30	J2348+0039	02 07 22	30.4	220.9	2.3		23.2	-18	1739	No stop
23 01 30	---	02 11 23	30.0	222.0	2.4		23.7	222	1770	22 57 31
23 02 05	J2354-0019	02 11 58	29.6	220.2	2.3		22.8	18	1770	23 02 05
23 03 05	=2351-006	02 12 58	29.5	220.5	2.3		22.9	60	1778	23 02 06
23 04 35	J0040-0146	02 14 29	32.0	207.5	1.5		16.1	49	1778	23 04 35
23 06 35	=0038-020	02 16 29	31.8	208.0	1.6		16.4	120	1793	23 04 36
23 06 35	J0043-0013	02 16 29	33.5	207.9	1.5		16.3	-20	1793	No stop
23 10 35	---	02 20 30	33.2	209.0	1.6		16.9	220	1824	23 06 36

Schedule for TORUN (Code Tr)

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EW039B

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 19 Oct 2024 Day 293 ---										
23 10 35	J0040-0146	02 20 30	31.5	209.2	1.6		17.0	-20	1824	No stop
23 12 05	=0038-020	02 22 00	31.4	209.6	1.7		17.3	70	1836	23 10 36
23 12 05	J0043-0013	02 22 00	33.1	209.5	1.6		17.2	-20	1836	No stop
23 16 05	---	02 26 01	32.8	210.6	1.7		17.8	220	1867	23 12 06
23 16 40	J0040-0146	02 26 36	31.1	210.9	1.7		18.0	15	1867	23 16 40
23 17 40	=0038-020	02 27 36	31.0	211.2	1.8		18.1	60	1874	23 16 41
23 17 40	J0043-0013	02 27 36	32.7	211.0	1.7		18.0	-20	1874	No stop
23 21 40	---	02 31 36	32.3	212.2	1.8		18.6	220	1905	23 17 41
23 21 40	J0040-0146	02 31 36	30.7	212.3	1.8		18.7	-20	1905	No stop
23 23 10	=0038-020	02 33 07	30.6	212.7	1.8		18.9	70	1917	23 21 41
23 23 10	J0043-0013	02 33 07	32.2	212.6	1.8		18.9	-20	1917	No stop
23 27 10	---	02 37 07	31.9	213.7	1.9		19.5	220	1948	23 23 11
23 27 45	J0040-0146	02 37 42	30.2	213.9	1.9		19.6	15	1948	23 27 45
23 28 45	=0038-020	02 38 43	30.1	214.2	1.9		19.7	60	1955	23 27 46
23 28 45	J0043-0013	02 38 43	31.8	214.2	1.9		19.7	-20	1955	No stop
23 32 45	---	02 42 43	31.4	215.3	2.0		20.3	220	1986	23 28 46
23 32 45	J0040-0146	02 42 43	29.8	215.3	2.0		20.3	-20	1986	No stop
23 34 15	=0038-020	02 44 13	29.6	215.7	2.0		20.5	70	1998	23 32 46
23 34 15	J0043-0013	02 44 13	31.3	215.7	2.0		20.5	-20	1998	No stop
23 38 15	---	02 48 14	30.9	216.8	2.1		21.1	220	2029	23 34 16
23 38 50	J0040-0146	02 48 49	29.2	216.9	2.1		21.2	15	2029	23 38 50
23 39 50	=0038-020	02 49 49	29.1	217.2	2.1		21.3	60	2037	23 38 51
23 39 50	J0043-0013	02 49 49	30.8	217.2	2.1		21.3	-20	2037	No stop
23 43 50	---	02 53 50	30.4	218.3	2.2		21.8	220	2068	23 39 51
23 43 50	J0040-0146	02 53 50	28.8	218.3	2.2		21.8	-20	2068	No stop
23 45 20	=0038-020	02 55 20	28.6	218.7	2.2		22.0	70	2079	23 43 51
23 45 20	J0043-0013	02 55 20	30.3	218.7	2.2		22.0	-20	2079	No stop
23 49 20	---	02 59 21	29.9	219.8	2.2		22.6	220	2110	23 45 21
23 49 55	J0040-0146	02 59 56	28.2	219.9	2.3		22.6	15	2110	23 49 55
23 50 55	=0038-020	03 00 56	28.1	220.1	2.3		22.8	60	2118	23 49 56

Schedule for TORUN (Code Tr)
EW039B

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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 19 Oct 2024 Day 293 ---										
23 52 25	J0049+0237	03 02 26	32.8	220.2	2.2		22.8	58	2118	23 52 25
23 54 25	=0047+023	03 04 27	32.6	220.7	2.2		23.1	120	2133	23 52 26
23 54 25	J0046+0104	03 04 27	30.9	220.9	2.3		23.2	-20	2133	No stop
23 58 25	---	03 08 27	30.5	222.0	2.3		23.7	220	2164	23 54 26
23 58 25	J0049+0237	03 08 27	32.2	221.8	2.3		23.6	-20	2164	No stop
23 59 55	=0047+023	03 09 58	32.1	222.2	2.3		23.8	70	2176	23 58 26

--- Start: Sat 19 Oct 2024 Day 293 -- Stop: Sun 20 Oct 2024 Day 294 ---										
23 59 55	J0046+0104	03 09 58	30.3	222.4	2.4		23.9	-20	2176	No stop
00 03 55	---	03 13 58	29.9	223.5	2.4		24.4	220	2207	23 59 56
00 04 30	J0049+0237	03 14 33	31.6	223.4	2.4		24.4	15	2207	00 04 30
00 05 30	=0047+023	03 15 34	31.5	223.7	2.4		24.5	60	2214	00 04 31
00 05 30	J0046+0104	03 15 34	29.8	223.9	2.5		24.6	-20	2214	No stop
00 09 30	---	03 19 34	29.3	224.9	2.5		25.1	220	2245	00 05 31
00 09 30	J0049+0237	03 19 34	31.1	224.8	2.5		25.1	-20	2245	No stop
00 11 00	=0047+023	03 21 05	30.9	225.2	2.5		25.2	70	2257	00 09 31
00 11 00	J0046+0104	03 21 05	29.2	225.3	2.6		25.3	-20	2257	No stop
00 15 00	---	03 25 05	28.7	226.4	2.6		25.8	220	2288	00 11 01
00 15 35	J0049+0237	03 25 40	30.4	226.4	2.6		25.8	15	2288	00 15 35
00 16 35	=0047+023	03 26 40	30.3	226.6	2.6		25.9	60	2296	00 15 36
00 16 35	J0046+0104	03 26 40	28.6	226.8	2.7		25.9	-20	2296	No stop
00 20 35	---	03 30 41	28.1	227.8	2.7		26.4	220	2326	00 16 36
00 20 35	J0049+0237	03 30 41	29.9	227.7	2.7		26.4	-20	2326	No stop
00 22 05	=0047+023	03 32 11	29.7	228.1	2.7		26.6	70	2338	00 20 36
00 22 05	J0046+0104	03 32 11	28.0	228.2	2.7		26.6	-20	2338	No stop
00 26 05	---	03 36 12	27.5	229.2	2.8		27.0	220	2369	00 22 06
00 26 40	J0049+0237	03 36 47	29.2	229.2	2.8		27.1	15	2369	00 26 40
00 27 40	=0047+023	03 37 47	29.1	229.5	2.8		27.2	60	2377	00 26 41
00 27 40	J0046+0104	03 37 47	27.3	229.6	2.8		27.2	-20	2377	No stop
00 31 40	---	03 41 48	26.9	230.6	2.9		27.6	220	2408	00 27 41

Schedule for TORUN (Code Tr)

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EW039B

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 20 Oct 2024 Day 294 ---										
00 31 40	J0049+0237	03 41 48	28.6	230.5	2.8		27.6	-20	2408	No stop
00 33 10	=0047+023	03 43 18	28.5	230.9	2.9		27.8	70	2419	00 31 41
00 33 10	J0046+0104	03 43 18	26.7	230.9	2.9		27.8	-21	2419	No stop
00 37 10	---	03 47 19	26.2	231.9	3.0		28.2	219	2450	00 33 11
00 37 45	J0049+0237	03 47 54	27.9	232.0	2.9		28.3	15	2450	00 37 45
00 38 45	=0047+023	03 48 54	27.8	232.3	3.0		28.4	60	2458	00 37 46
00 40 15	J0057-0024	03 50 24	25.8	229.2	2.9		27.0	69	2458	00 40 15
00 42 15	=0054-006	03 52 25	25.6	229.7	2.9		27.3	120	2473	00 40 16
00 42 15	J0051+0041	03 52 25	25.9	231.7	3.0		28.1	-18	2473	No stop
00 46 15	---	03 56 25	25.4	232.7	3.1		28.5	222	2504	00 42 16
00 46 15	J0057-0024	03 56 25	25.1	230.7	3.0		27.7	-17	2504	No stop
00 47 45	=0054-006	03 57 56	25.0	231.1	3.0		27.8	73	2516	00 46 16
00 47 45	J0051+0041	03 57 56	25.3	233.0	3.1		28.7	-18	2516	No stop
00 51 45	---	04 01 56	24.8	234.0	3.2		29.1	222	2547	00 47 46
00 52 20	J0057-0024	04 02 31	24.4	232.2	3.1		28.3	18	2547	00 52 20
00 53 20	=0054-006	04 03 31	24.3	232.4	3.1		28.4	60	2554	00 52 21
00 53 20	J0051+0041	04 03 31	24.6	234.4	3.2		29.2	-18	2554	No stop
00 57 20	---	04 07 32	24.1	235.3	3.2		29.6	222	2585	00 53 21
00 57 20	J0057-0024	04 07 32	23.8	233.4	3.1		28.8	-17	2585	No stop
00 58 50	=0054-006	04 09 02	23.6	233.7	3.2		29.0	73	2597	00 57 21
00 58 50	J0051+0041	04 09 02	23.9	235.7	3.3		29.7	-18	2597	No stop
01 02 50	---	04 13 03	23.4	236.7	3.3		30.1	222	2628	00 58 51
01 03 25	J0057-0024	04 13 38	23.1	234.8	3.3		29.4	18	2628	01 03 25
01 04 25	=0054-006	04 14 38	23.0	235.1	3.3		29.5	60	2636	01 03 26
01 04 25	J0051+0041	04 14 38	23.2	237.0	3.4		30.3	-18	2636	No stop
01 08 25	---	04 18 39	22.7	238.0	3.4		30.6	222	2667	01 04 26
01 08 25	J0057-0024	04 18 39	22.5	236.0	3.3		29.9	-17	2667	No stop
01 09 55	=0054-006	04 20 09	22.3	236.4	3.4		30.0	73	2678	01 08 26
01 09 55	J0051+0041	04 20 09	22.5	238.3	3.5		30.7	-18	2678	No stop
01 13 55	---	04 24 10	22.0	239.2	3.5		31.1	222	2709	01 09 56

Schedule for TORUN (Code Tr)

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EW039B

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  20 Oct 2024   Day 294 ---

01 14 30  J0057-0024   04 24 45  21.7 237.4  3.4      30.4   18    2709   01 14 30
01 15 30  =0054-006     04 25 45  21.6 237.7  3.5      30.5   60    2717   01 14 31

01 15 30  J0051+0041   04 25 45  21.8 239.6  3.5      31.2  -18    2717   No stop
01 19 30  ---          04 29 46  21.3 240.5  3.6      31.5  222    2748   01 15 31

01 19 30  J0057-0024   04 29 46  21.1 238.6  3.5      30.8  -17    2748   No stop
01 21 00  =0054-006     04 31 16  20.9 238.9  3.5      31.0   73    2759   01 19 31

01 25 00  0234+285     04 35 17  57.8 232.8  1.9      33.1   87    2759   01 25 00
01 30 00  ---          04 40 18  57.2 234.5  2.0      33.9  300    2798   01 25 01

```

SETUP FILE INFORMATION:

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

==== Setup file: sess324.L1024

```

Setup group:    7          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: 13 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: 13

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)
* J0051+0041	00 48 56.579719	* 00 51 30.486924	00 52 47.883535	0.00
	00 25 32.04304	* 00 41 50.23194	00 50 02.72161	0.00
* J0046+0104	00 43 39.568156	* 00 46 13.546543	00 47 30.964676	0.00
	00 48 02.99596	* 01 04 25.94428	01 12 40.71719	0.00
* J0043-0013	00 40 48.690113	* 00 43 22.377941	00 44 39.653180	0.00
	-00 30 08.88744	*-00 13 43.57898	-00 05 27.83781	0.00
* J2348+0039	23 45 56.690309	* 23 48 30.427848	23 49 47.559408	0.00
	00 22 38.13906	* 00 39 18.74023	00 47 40.96445	0.00
0038-020	00 38 24.230022	* 00 40 57.611580	00 42 14.739311	0.05
* J0040-0146	-02 02 59.21424	*-01 46 32.02637	-01 38 15.58708	0.10
J0040-01	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 298 observations.			
0047+023	00 47 08.863519	* 00 49 43.235943	00 51 00.848931	0.03
* J0049+0237	02 20 43.92807	* 02 37 03.77851	02 45 17.23803	0.07
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 1184 observations.			
0054-006	00 54 43.391445	* 00 57 17.002208	00 58 34.270394	0.13
* J0057-0024	-00 40 45.57042	*-00 24 33.17749	-00 16 23.53364	0.24
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 80 observations.			
* 0234+285	02 34 55.589590	* 02 37 52.405677	02 39 21.283949	0.00
J0237+2848	28 35 11.40773	* 28 48 08.98999	28 54 41.44858	0.00
J0237+28	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 58420 observations.			
* 3C286	13 28 49.657769	* 13 31 08.288061	13 32 15.654969	0.17
J1331+3030	30 45 58.64066	* 30 30 32.95930	30 22 57.75219	0.16

1328+307	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1331+30	GSFC 2016a X/S astro solution, 269 observations.			
* 3C454.3	22 51 29.519739	* 22 53 57.747939	22 55 11.870576	0.65
J2253+1608	15 52 54.34808	* 16 08 53.56091	16 16 57.53664	0.73
2251+158	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J2253+16	GSFC 2016a X/S astro solution, 41272 observations.			
2351-006	23 51 35.388340	* 23 54 09.175882	23 55 26.357863	0.09
* J2354-0019	-00 36 29.63360	*-00 19 47.95523	-00 11 25.24808	0.19
	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 137 observations.			

FT049 - GMRT-EVN TEST (DUAL-SIDEBAND SETINI)

PI: *marcote*

Address: JIVE

Schedule for TORUN (Code Tr) Page 2

FT049 - GMRT-EVN test (dual-sideband SETINI)

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 20 Oct 2024 Day 294 ---										
Next scan frequencies:		1402.00	1402.00	1402.00	1402.00	1402.00	1434.00	1434.00	1434.00	1434.00
Next BBC frequencies:		698.00	698.00	698.00	698.00	698.00	666.00	666.00	666.00	666.00
Next scan bandwidths:		16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

02 30 00	OJ287	05 40 27	40.1	112.1	-3.3		-36.3	0	0	02 30 00
02 35 00	---	05 45 28	40.8	113.4	-3.2		-35.9	300	19	02 30 01
02 37 00	OJ287	05 47 29	41.1	113.9	-3.1		-35.8	114	19	02 37 00
02 50 00	---	06 00 31	42.8	117.2	-2.9		-34.6	780	70	02 37 01
02 52 00	OJ287	06 02 31	43.1	117.8	-2.9		-34.4	113	70	02 52 00
03 05 00	---	06 15 33	44.8	121.3	-2.7		-33.1	780	120	02 52 01
03 07 00	OJ287	06 17 33	45.1	121.9	-2.6		-32.9	113	120	03 07 00
03 20 00	---	06 30 36	46.7	125.6	-2.4		-31.3	780	170	03 07 01
03 22 00	OJ287	06 32 36	46.9	126.2	-2.4		-31.1	113	170	03 22 00
03 35 00	---	06 45 38	48.5	130.1	-2.2		-29.3	780	220	03 22 01
03 37 00	OJ287	06 47 38	48.7	130.7	-2.1		-29.0	113	220	03 37 00
03 50 00	---	07 00 41	50.1	134.9	-1.9		-26.9	780	271	03 37 01
03 52 00	OJ287	07 02 41	50.4	135.6	-1.9		-26.6	113	271	03 52 00
04 05 00	---	07 15 43	51.7	140.0	-1.7		-24.3	780	321	03 52 01
04 07 00	OJ287	07 17 43	51.9	140.6	-1.6		-23.9	113	321	04 07 00
04 20 00	---	07 30 45	53.0	145.3	-1.4		-21.3	780	371	04 07 01
04 23 00	J0927+3902	07 33 46	65.8	114.2	-1.9		-44.7	102	371	04 23 00
04 28 00	=4C39.25	07 38 47	66.5	116.0	-1.8		-43.9	300	390	04 23 01
04 28 00	J0923+3849	07 38 47	66.8	117.7	-1.8		-43.0	-17	390	No stop
04 31 30	=0920+390	07 42 17	67.3	119.0	-1.7		-42.3	193	404	04 28 01
04 32 00	J0927+3902	07 42 47	67.0	117.4	-1.8		-43.3	13	404	04 32 00
04 33 30	=4C39.25	07 44 18	67.2	117.9	-1.7		-43.0	90	410	04 32 01
04 33 30	J0923+3849	07 44 18	67.6	119.7	-1.7		-41.9	-17	410	No stop
04 37 00	=0920+390	07 47 48	68.0	121.1	-1.6		-41.2	193	423	04 33 31
04 37 30	J0927+3902	07 48 18	67.8	119.4	-1.7		-42.2	13	423	04 37 30
04 39 00	=4C39.25	07 49 49	68.0	120.0	-1.6		-41.9	90	429	04 37 31

Schedule for TORUN (Code Tr)

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FT049 - GMRT-EVN test (dual-sideband SETINI)

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 20 Oct 2024	Day 294					---				
04 39 00	J0923+3849	07 49 49	68.3	121.9	-1.6		-40.8	-17	429	No stop	
04 42 30	=0920+390	07 53 19	68.7	123.3	-1.5		-40.0	193	442	04 39 01	
04 43 00	J0927+3902	07 53 49	68.5	121.6	-1.6		-41.1	13	442	04 43 00	
04 44 30	=4C39.25	07 55 19	68.7	122.2	-1.6		-40.8	90	448	04 43 01	
04 44 30	J0923+3849	07 55 19	69.0	124.1	-1.5		-39.6	-18	448	No stop	
04 48 00	=0920+390	07 58 50	69.4	125.6	-1.4		-38.7	192	462	04 44 31	
04 48 30	J0927+3902	07 59 20	69.2	123.9	-1.5		-39.9	13	462	04 48 30	
04 50 00	=4C39.25	08 00 50	69.4	124.5	-1.5		-39.5	90	468	04 48 31	
04 50 00	J0923+3849	08 00 50	69.7	126.5	-1.4		-38.2	-18	468	No stop	
04 53 30	=0920+390	08 04 21	70.1	128.1	-1.3		-37.3	192	481	04 50 01	
04 54 00	J0927+3902	08 04 51	69.8	126.2	-1.4		-38.5	12	481	04 54 00	
04 55 30	=4C39.25	08 06 21	70.0	126.9	-1.4		-38.1	90	487	04 54 01	
04 55 30	J0923+3849	08 06 21	70.3	129.0	-1.3		-36.7	-18	487	No stop	
04 59 00	=0920+390	08 09 52	70.7	130.7	-1.2		-35.7	192	500	04 55 31	
04 59 30	J0927+3902	08 10 22	70.5	128.7	-1.3		-37.0	12	500	04 59 30	
05 01 00	=4C39.25	08 11 52	70.7	129.4	-1.3		-36.6	90	506	04 59 31	
05 01 00	J0923+3849	08 11 52	70.9	131.6	-1.2		-35.1	-19	506	No stop	
05 04 30	=0920+390	08 15 23	71.3	133.4	-1.2		-34.0	191	520	05 01 01	
05 05 00	J0927+3902	08 15 53	71.1	131.4	-1.2		-35.4	12	520	05 05 00	
05 06 30	=4C39.25	08 17 23	71.3	132.1	-1.2		-34.9	90	526	05 05 01	
05 06 30	J0923+3849	08 17 23	71.5	134.4	-1.1		-33.4	-19	526	No stop	
05 10 00	=0920+390	08 20 54	71.9	136.2	-1.1		-32.2	191	539	05 06 31	
05 10 30	J0927+3902	08 21 24	71.7	134.1	-1.1		-33.6	12	539	05 10 30	
05 12 00	=4C39.25	08 22 54	71.9	134.9	-1.1		-33.1	90	545	05 10 31	
05 12 00	J0923+3849	08 22 54	72.1	137.3	-1.0		-31.5	-19	545	No stop	
05 15 30	=0920+390	08 26 25	72.5	139.2	-1.0		-30.2	191	558	05 12 01	
05 16 00	J0927+3902	08 26 55	72.3	137.1	-1.0		-31.7	11	558	05 16 00	
05 17 30	=4C39.25	08 28 25	72.5	137.9	-1.0		-31.2	90	564	05 16 01	
05 17 30	J0923+3849	08 28 25	72.7	140.4	-0.9		-29.4	-19	564	No stop	
05 21 00	=0920+390	08 31 55	73.0	142.4	-0.9		-28.0	191	578	05 17 31	
05 21 30	J0927+3902	08 32 26	72.9	140.2	-0.9		-29.6	11	578	05 21 30	
05 23 00	=4C39.25	08 33 56	73.0	141.0	-0.9		-29.1	90	584	05 21 31	

Schedule for TORUN (Code Tr)

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FT049 - GMRT-EVN test (dual-sideband SETINI)

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 20 Oct 2024 Day 294 ---										
05 23 00	J0923+3849	08 33 56	73.2	143.6	-0.8		-27.2	-20	584	No stop
05 26 30	=0920+390	08 37 26	73.5	145.7	-0.8		-25.7	190	597	05 23 01
05 27 00	J0927+3902	08 37 56	73.4	143.4	-0.8		-27.4	11	597	05 27 00
05 28 30	=4C39.25	08 39 27	73.5	144.3	-0.8		-26.8	90	603	05 27 01
05 28 30	J0923+3849	08 39 27	73.6	147.0	-0.8		-24.8	-20	603	No stop
05 32 00	=0920+390	08 42 57	73.9	149.2	-0.7		-23.2	190	616	05 28 31
05 32 30	J0927+3902	08 43 27	73.9	146.8	-0.8		-25.0	11	616	05 32 30
05 34 00	=4C39.25	08 44 58	74.0	147.8	-0.7		-24.3	90	622	05 32 31
05 34 00	J0923+3849	08 44 58	74.1	150.5	-0.7		-22.2	-20	622	No stop
05 37 30	=0920+390	08 48 28	74.3	152.9	-0.6		-20.5	190	636	05 34 01
05 38 00	J0927+3902	08 48 58	74.3	150.4	-0.7		-22.4	10	636	05 38 00
05 39 30	=4C39.25	08 50 28	74.4	151.4	-0.6		-21.7	90	642	05 38 01
05 39 30	J0923+3849	08 50 28	74.5	154.3	-0.6		-19.5	-21	642	No stop
05 43 00	=0920+390	08 53 59	74.7	156.7	-0.5		-17.7	189	655	05 39 31
05 43 30	J0927+3902	08 54 29	74.7	154.1	-0.6		-19.7	10	655	05 43 30
05 45 00	=4C39.25	08 55 59	74.8	155.2	-0.5		-18.9	90	661	05 43 31
05 45 00	J0923+3849	08 55 59	74.8	158.1	-0.5		-16.7	-21	661	No stop
05 48 30	=0920+390	08 59 30	75.0	160.6	-0.4		-14.8	189	674	05 45 01
05 49 00	J0927+3902	09 00 00	75.0	158.0	-0.5		-16.8	10	674	05 49 00
05 50 30	=4C39.25	09 01 30	75.1	159.1	-0.5		-16.0	90	680	05 49 01
05 53 30	J1048+7143	09 04 31	68.2	22.2	-1.8		-134.0	-109	680	05 53 30
06 00 00	=1044+719	09 11 02	68.6	21.2	-1.7		-136.4	281	705	05 53 31
06 02 00	J1048+7143	09 13 02	68.7	20.9	-1.6		-137.2	114	705	06 02 00
06 15 00	=1044+719	09 26 04	69.3	18.7	-1.4		-142.3	780	756	06 02 01
06 17 00	J1048+7143	09 28 05	69.4	18.4	-1.4		-143.2	114	756	06 17 00
06 30 00	=1044+719	09 41 07	70.0	15.9	-1.2		-148.5	780	806	06 17 01
06 32 00	J1048+7143	09 43 07	70.1	15.5	-1.1		-149.4	114	806	06 32 00
06 45 00	=1044+719	09 56 09	70.6	12.8	-0.9		-155.0	780	856	06 32 01
06 47 00	J1048+7143	09 58 10	70.6	12.4	-0.9		-155.9	114	856	06 47 00
07 00 00	=1044+719	10 11 12	71.0	9.5	-0.7		-161.8	780	906	06 47 01

Schedule for TORUN (Code Tr)

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FT049 - GMRT-EVN test (dual-sideband SETINI)

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 20 Oct 2024   Day 294 ---

07 02 00  J1048+7143   10 13 12  71.1  9.0 -0.6   -162.7  114    906   07 02 00
07 15 00  =1044+719     10 26 14  71.3  5.9 -0.4   -168.7  780    956   07 02 01

07 17 00  J1048+7143   10 28 15  71.3  5.4 -0.4   -169.6  114    956   07 17 00
07 30 00  =1044+719     10 41 17  71.5  2.2 -0.1   -175.8  780   1007   07 17 01

07 32 00  J1048+7143   10 43 17  71.5  1.7 -0.1   -176.7  114   1007   07 32 00
07 45 00  =1044+719     10 56 19  71.5 -1.5  0.1     177.1  780   1057   07 32 01

07 50 00  B0950+08     11 01 20  42.7 202.8  1.1     13.6 -125   1057   07 50 00
08 00 00  ---          11 11 22  42.1 206.1  1.3     15.5  475   1096   07 50 01

```

SETUP FILE INFORMATION:

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

==== Setup file: sess223.H512

```

Setup group:    4          Station: TORUN          Total bit rate:  512
Format: VDIF    Bits per sample: 2      Sample rate: 32.000
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:  5  Setup file default.  Used with PCAL = off
LO sum= 1402.00 1402.00 1402.00 1402.00 1434.00 1434.00 1434.00 1434.00
BBC fr=  698.00 698.00 698.00 698.00 666.00 666.00 666.00 666.00
Bandwd=  16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00
Matching frequency sets:  5

```

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)
* B0950+08	09 50 30.540984	* 09 53 09.300000	09 54 27.226846	0.00
	08 09 45.10179	* 07 55 35.70000	07 48 42.83735	0.00
* OJ287	08 51 57.250615	* 08 54 48.874927	08 56 13.486707	0.00
J0854+2006	20 17 58.41740	* 20 06 30.64085	20 00 54.02051	0.00
0851+202	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J0854+20	GSFC 2016a X/S astro solution, 270807 observations.			
0920+390	09 20 06.318434	* 09 23 14.452934	09 24 47.041741	0.01
* J0923+3849	39 02 32.11184	* 38 49 39.91011	38 43 14.76932	0.01
J0923+38	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 6310 observations.			
4C39.25	09 23 55.319216	* 09 27 03.013937	09 28 35.362046	0.31
* J0927+3902	39 15 23.56644	* 39 02 20.85185	38 55 50.46505	0.16
0923+392	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J0927+39	GSFC 2016a X/S astro solution, 250526 observations.			
1044+719	10 44 49.735100	* 10 48 27.619916	10 50 13.001558	0.34
* J1048+7143	71 59 26.88543	* 71 43 35.93846	71 35 35.03885	0.18
J1048+71	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 131737 observations.			

ew039ctr

EW039C

PI: Haochen Wang

Address: Department of Astronomy, USTC

Observing mode: vlbi

Schedule for TORUN (Code Tr)

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EW039C

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 20 Oct 2024 Day 294 ---										
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	3C454.3	23 43 25	52.0	199.0	0.8		11.7	0	0	20 30 00
20 35 00	---	23 48 26	51.7	200.9	0.9		12.9	300	39	20 30 01
20 39 00	J0131-0045	23 52 26	32.3	149.8	-1.7		-17.6	122	39	20 39 00
20 41 00	---	23 54 27	32.5	150.4	-1.6		-17.2	120	54	20 39 01
20 41 00	J0131-0045	23 54 27	32.5	150.4	-1.6		-17.2	-5	54	No stop
20 45 00	---	23 58 27	32.8	151.6	-1.6		-16.6	235	85	20 41 01
20 45 00	J0134+0003	23 58 27	33.4	150.5	-1.6		-17.2	-14	85	No stop
20 46 30	=0131-001	23 59 57	33.5	151.0	-1.6		-16.9	76	97	20 45 01
20 46 30	J0131-0045	23 59 57	32.9	152.0	-1.5		-16.4	-14	97	No stop
20 50 30	---	00 03 58	33.2	153.1	-1.5		-15.7	226	128	20 46 31
20 51 00	J0134+0003	00 04 28	33.8	152.3	-1.5		-16.2	16	128	20 51 00
20 52 30	=0131-001	00 05 58	33.9	152.7	-1.5		-16.0	90	139	20 51 01
20 52 30	J0131-0045	00 05 58	33.3	153.7	-1.4		-15.4	-14	139	No stop
20 56 30	---	00 09 59	33.6	154.9	-1.4		-14.8	226	170	20 52 31
20 56 30	J0134+0003	00 09 59	34.2	153.9	-1.4		-15.3	-14	170	No stop
20 58 00	=0131-001	00 11 29	34.3	154.3	-1.4		-15.1	76	182	20 56 31
20 58 00	J0131-0045	00 11 29	33.7	155.3	-1.4		-14.5	-14	182	No stop
21 02 00	---	00 15 30	33.9	156.5	-1.3		-13.9	226	213	20 58 01
21 02 30	J0134+0003	00 16 00	34.6	155.6	-1.3		-14.4	16	213	21 02 30
21 04 00	=0131-001	00 17 30	34.7	156.1	-1.3		-14.1	90	224	21 02 31
21 04 00	J0131-0045	00 17 30	34.0	157.1	-1.3		-13.5	-14	224	No stop
21 08 00	---	00 21 31	34.3	158.2	-1.2		-12.9	226	255	21 04 01
21 08 00	J0134+0003	00 21 31	34.9	157.2	-1.2		-13.4	-14	255	No stop
21 09 30	=0131-001	00 23 01	35.0	157.7	-1.2		-13.2	76	267	21 08 01
21 09 30	J0131-0045	00 23 01	34.3	158.7	-1.2		-12.6	-14	267	No stop
21 13 30	---	00 27 02	34.5	159.9	-1.1		-11.9	226	298	21 09 31

Schedule for TORUN (Code Tr)

Page 3

EW039C

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 20 Oct 2024	Day 294					---				
21 14 00	J0134+0003	00 27 32	35.2	159.0	-1.1		-12.4	16	298	21 14 00	
21 15 30	=0131-001	00 29 02	35.3	159.5	-1.1		-12.1	90	309	21 14 01	
21 15 30	J0131-0045	00 29 02	34.7	160.5	-1.1		-11.6	-14	309	No stop	
21 19 30	---	00 33 03	34.8	161.7	-1.0		-10.9	226	340	21 15 31	
21 19 30	J0134+0003	00 33 03	35.5	160.7	-1.0		-11.5	-15	340	No stop	
21 21 00	=0131-001	00 34 33	35.6	161.1	-1.0		-11.2	75	352	21 19 31	
21 21 00	J0131-0045	00 34 33	34.9	162.1	-1.0		-10.6	-14	352	No stop	
21 25 00	---	00 38 34	35.1	163.3	-0.9		-9.9	226	383	21 21 01	
21 25 30	J0134+0003	00 39 04	35.8	162.5	-0.9		-10.4	15	383	21 25 30	
21 27 00	=0131-001	00 40 34	35.9	163.0	-0.9		-10.1	90	394	21 25 31	
21 28 30	J0216-0105	00 42 04	32.4	151.4	-1.6		-16.7	51	394	21 28 30	
21 30 30	=0213-013	00 44 05	32.5	152.0	-1.6		-16.4	120	410	21 28 31	
21 30 30	J0217-0045	00 44 05	32.8	151.6	-1.6		-16.6	-11	410	No stop	
21 34 30	---	00 48 05	33.1	152.7	-1.5		-16.0	229	441	21 30 31	
21 34 30	J0216-0105	00 48 05	32.8	153.1	-1.5		-15.8	-11	441	No stop	
21 36 00	=0213-013	00 49 36	32.9	153.5	-1.5		-15.5	79	452	21 34 31	
21 36 00	J0217-0045	00 49 36	33.2	153.1	-1.5		-15.7	-11	452	No stop	
21 40 00	---	00 53 36	33.4	154.3	-1.4		-15.1	229	483	21 36 01	
21 40 30	J0216-0105	00 54 06	33.2	154.8	-1.4		-14.8	19	483	21 40 30	
21 42 00	=0213-013	00 55 37	33.3	155.3	-1.4		-14.6	90	495	21 40 31	
21 42 00	J0217-0045	00 55 37	33.5	154.9	-1.4		-14.8	-11	495	No stop	
21 46 00	---	00 59 37	33.8	156.0	-1.3		-14.1	229	526	21 42 01	
21 46 00	J0216-0105	00 59 37	33.5	156.4	-1.3		-13.9	-11	526	No stop	
21 47 30	=0213-013	01 01 08	33.6	156.9	-1.3		-13.6	79	537	21 46 01	
21 47 30	J0217-0045	01 01 08	33.9	156.5	-1.3		-13.9	-11	537	No stop	
21 51 30	---	01 05 08	34.1	157.7	-1.2		-13.2	229	568	21 47 31	
21 52 00	J0216-0105	01 05 38	33.9	158.2	-1.2		-12.9	19	568	21 52 00	
21 53 30	=0213-013	01 07 09	34.0	158.6	-1.2		-12.6	90	580	21 52 01	
21 53 30	J0217-0045	01 07 09	34.2	158.2	-1.2		-12.9	-11	580	No stop	
21 57 30	---	01 11 09	34.5	159.4	-1.1		-12.2	229	611	21 53 31	
21 57 30	J0216-0105	01 11 09	34.2	159.8	-1.1		-12.0	-11	611	No stop	
21 59 00	=0213-013	01 12 39	34.3	160.3	-1.1		-11.7	79	622	21 57 31	

Schedule for TORUN (Code Tr)

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EW039C

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 20 Oct 2024 Day 294 ---										
21 59 00	J0217-0045	01 12 39	34.5	159.9	-1.1		-11.9	-11	622	No stop
22 03 00	---	01 16 40	34.7	161.1	-1.0		-11.2	229	653	21 59 01
22 03 30	J0216-0105	01 17 10	34.5	161.6	-1.0		-10.9	19	653	22 03 30
22 05 00	=0213-013	01 18 40	34.6	162.1	-1.0		-10.7	90	665	22 03 31
22 05 00	J0217-0045	01 18 40	34.8	161.7	-1.0		-10.9	-11	665	No stop
22 09 00	---	01 22 41	35.0	162.9	-0.9		-10.2	229	696	22 05 01
22 09 00	J0216-0105	01 22 41	34.7	163.3	-0.9		-10.0	-11	696	No stop
22 10 30	=0213-013	01 24 11	34.8	163.7	-0.9		-9.7	79	707	22 09 01
22 10 30	J0217-0045	01 24 11	35.1	163.3	-0.9		-9.9	-11	707	No stop
22 14 30	---	01 28 12	35.2	164.5	-0.8		-9.2	229	738	22 10 31
22 15 00	J0216-0105	01 28 42	35.0	165.1	-0.8		-8.9	19	738	22 15 00
22 16 30	=0213-013	01 30 12	35.0	165.5	-0.8		-8.6	90	750	22 15 01
22 18 00	J0253+0005	01 31 43	34.4	154.6	-1.4		-14.9	53	750	22 18 00
22 20 00	=0250-001	01 33 43	34.5	155.2	-1.3		-14.6	120	765	22 18 01
22 20 00	J0255+0014	01 33 43	34.5	154.6	-1.4		-14.9	-11	765	No stop
22 24 00	---	01 37 44	34.8	155.8	-1.3		-14.2	229	796	22 20 01
22 24 00	J0253+0005	01 37 44	34.7	156.4	-1.3		-13.9	-12	796	No stop
22 25 30	=0250-001	01 39 14	34.8	156.8	-1.3		-13.7	78	808	22 24 01
22 25 30	J0255+0014	01 39 14	34.9	156.3	-1.3		-14.0	-11	808	No stop
22 29 30	---	01 43 14	35.1	157.4	-1.2		-13.3	229	839	22 25 31
22 30 00	J0253+0005	01 43 44	35.1	158.2	-1.2		-12.9	18	839	22 30 00
22 31 30	=0250-001	01 45 15	35.2	158.6	-1.2		-12.7	90	850	22 30 01
22 31 30	J0255+0014	01 45 15	35.2	158.0	-1.2		-13.0	-11	850	No stop
22 35 30	---	01 49 15	35.4	159.2	-1.1		-12.3	229	881	22 31 31
22 35 30	J0253+0005	01 49 15	35.4	159.8	-1.1		-12.0	-12	881	No stop
22 37 00	=0250-001	01 50 46	35.5	160.3	-1.1		-11.7	78	893	22 35 31
22 37 00	J0255+0014	01 50 46	35.5	159.7	-1.1		-12.0	-12	893	No stop
22 41 00	---	01 54 46	35.7	160.9	-1.0		-11.3	228	924	22 37 01
22 41 30	J0253+0005	01 55 16	35.7	161.6	-1.0		-10.9	18	924	22 41 30
22 43 00	=0250-001	01 56 47	35.8	162.1	-1.0		-10.7	90	935	22 41 31

Schedule for TORUN (Code Tr)

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EW039C

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 20 Oct 2024 Day 294 ---										
22 43 00	J0255+0014	01 56 47	35.8	161.5	-1.0		-11.0	-12	935	No stop
22 47 00	---	02 00 47	36.0	162.7	-0.9		-10.3	228	966	22 43 01
22 47 00	J0253+0005	02 00 47	35.9	163.3	-0.9		-9.9	-12	966	No stop
22 48 30	=0250-001	02 02 18	36.0	163.7	-0.9		-9.7	78	978	22 47 01
22 48 30	J0255+0014	02 02 18	36.1	163.2	-0.9		-10.0	-12	978	No stop
22 52 30	---	02 06 18	36.2	164.4	-0.8		-9.3	228	1009	22 48 31
22 53 00	J0253+0005	02 06 48	36.2	165.1	-0.8		-8.9	18	1009	22 53 00
22 54 30	=0250-001	02 08 19	36.2	165.6	-0.8		-8.6	90	1020	22 53 01
22 54 30	J0255+0014	02 08 19	36.3	165.0	-0.8		-8.9	-12	1020	No stop
22 58 30	---	02 12 19	36.5	166.3	-0.7		-8.2	228	1051	22 54 31
22 58 30	J0253+0005	02 12 19	36.4	166.8	-0.7		-7.9	-12	1051	No stop
23 00 00	=0250-001	02 13 49	36.4	167.3	-0.7		-7.6	78	1063	22 58 31
23 00 00	J0255+0014	02 13 49	36.5	166.7	-0.7		-7.9	-12	1063	No stop
23 04 00	---	02 17 50	36.6	168.0	-0.6		-7.2	228	1094	23 00 01
23 04 30	J0253+0005	02 18 20	36.6	168.7	-0.6		-6.8	18	1094	23 04 30
23 06 00	=0250-001	02 19 50	36.6	169.1	-0.6		-6.5	90	1105	23 04 31
23 07 30	J0315-0151	02 21 21	33.9	163.2	-0.9		-10.0	62	1105	23 07 30
23 09 30	---	02 23 21	34.0	163.8	-0.9		-9.7	120	1121	23 07 31
23 09 30	J0319-0021	02 23 21	35.3	162.3	-1.0		-10.5	-18	1121	No stop
23 13 30	---	02 27 22	35.5	163.5	-0.9		-9.8	222	1152	23 09 31
23 13 30	J0315-0151	02 27 22	34.2	165.0	-0.8		-9.0	-18	1152	No stop
23 15 00	---	02 28 52	34.2	165.4	-0.8		-8.7	72	1163	23 13 31
23 15 00	J0319-0021	02 28 52	35.5	163.9	-0.9		-9.6	-18	1163	No stop
23 19 00	---	02 32 53	35.7	165.1	-0.8		-8.9	222	1194	23 15 01
23 19 30	J0315-0151	02 33 23	34.4	166.8	-0.7		-7.9	12	1194	23 19 30
23 21 00	---	02 34 53	34.4	167.2	-0.7		-7.6	90	1206	23 19 31
23 21 00	J0319-0021	02 34 53	35.8	165.8	-0.8		-8.5	-18	1206	No stop
23 25 00	---	02 38 54	35.9	167.0	-0.7		-7.8	222	1237	23 21 01
23 25 00	J0315-0151	02 38 54	34.6	168.4	-0.6		-6.9	-18	1237	No stop
23 26 30	---	02 40 24	34.6	168.9	-0.6		-6.7	72	1248	23 25 01

Schedule for TORUN (Code Tr)

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EW039C

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 20 Oct 2024 Day 294 ---										
23 26 30	J0319-0021	02 40 24	36.0	167.4	-0.7		-7.5	-19	1248	No stop
23 30 30	---	02 44 24	36.1	168.7	-0.6		-6.8	221	1279	23 26 31
23 31 00	J0315-0151	02 44 55	34.7	170.2	-0.5		-5.9	11	1279	23 31 00
23 32 30	---	02 46 25	34.8	170.7	-0.5		-5.6	90	1291	23 31 01
23 32 30	J0319-0021	02 46 25	36.2	169.3	-0.6		-6.4	-19	1291	No stop
23 36 30	---	02 50 25	36.3	170.5	-0.5		-5.7	221	1322	23 32 31
23 36 30	J0315-0151	02 50 25	34.9	171.9	-0.4		-4.9	-19	1322	No stop
23 38 00	---	02 51 56	34.9	172.4	-0.4		-4.6	71	1333	23 36 31
23 38 00	J0319-0021	02 51 56	36.3	171.0	-0.5		-5.4	-19	1333	No stop
23 42 00	---	02 55 56	36.4	172.2	-0.4		-4.7	221	1364	23 38 01
23 42 30	J0315-0151	02 56 26	35.0	173.7	-0.3		-3.8	11	1364	23 42 30
23 44 00	---	02 57 57	35.0	174.2	-0.3		-3.5	90	1376	23 42 31
23 44 00	J0319-0021	02 57 57	36.4	172.8	-0.4		-4.3	-19	1376	No stop
23 48 00	---	03 01 57	36.5	174.1	-0.3		-3.5	221	1407	23 44 01
23 48 00	J0315-0151	03 01 57	35.1	175.4	-0.3		-2.8	-19	1407	No stop
23 49 30	---	03 03 28	35.1	175.9	-0.2		-2.5	71	1418	23 48 01
23 49 30	J0319-0021	03 03 28	36.5	174.6	-0.3		-3.3	-19	1418	No stop
23 53 30	---	03 07 28	36.6	175.8	-0.2		-2.5	221	1449	23 49 31
23 54 00	J0315-0151	03 07 58	35.1	177.2	-0.2		-1.7	11	1449	23 54 00
23 55 30	---	03 09 29	35.1	177.7	-0.1		-1.4	90	1461	23 54 01

--- Start: Sun 20 Oct 2024 Day 294 -- Stop: Mon 21 Oct 2024 Day 295 ---										
23 57 30	0234+285	03 11 29	65.1	196.9	0.5		11.5	-6	1461	23 57 30
00 02 30	---	03 16 30	64.9	199.4	0.6		13.2	294	1499	23 57 31
00 06 30	J0134+0003	03 20 30	32.8	211.7	1.8		18.4	106	1499	00 06 30
00 08 30	=0131-001	03 22 31	32.6	212.3	1.8		18.7	120	1515	00 06 31
00 08 30	J0131-0045	03 22 31	31.6	212.7	1.8		18.9	-17	1515	No stop
00 12 30	---	03 26 31	31.3	213.8	1.9		19.5	223	1546	00 08 31
00 12 30	J0134+0003	03 26 31	32.3	213.4	1.9		19.3	-16	1546	No stop
00 14 00	=0131-001	03 28 02	32.2	213.8	1.9		19.5	74	1557	00 12 31

Schedule for TORUN (Code Tr)

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EW039C

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 21 Oct 2024 Day 295 ---										
00 14 00	J0131-0045	03 28 02	31.2	214.2	1.9		19.8	-17	1557	No stop
00 18 00	---	03 32 02	30.8	215.3	2.0		20.3	223	1588	00 14 01
00 18 30	J0134+0003	03 32 32	31.8	215.1	2.0		20.2	14	1588	00 18 30
00 20 00	=0131-001	03 34 03	31.6	215.5	2.0		20.4	90	1600	00 18 31
00 20 00	J0131-0045	03 34 03	30.6	215.9	2.0		20.6	-17	1600	No stop
00 24 00	---	03 38 03	30.3	217.0	2.1		21.2	223	1631	00 20 01
00 24 00	J0134+0003	03 38 03	31.3	216.6	2.0		21.0	-16	1631	No stop
00 25 30	=0131-001	03 39 33	31.2	217.0	2.1		21.2	74	1642	00 24 01
00 25 30	J0131-0045	03 39 33	30.2	217.4	2.1		21.4	-17	1642	No stop
00 29 30	---	03 43 34	29.8	218.5	2.2		21.9	223	1673	00 25 31
00 30 00	J0134+0003	03 44 04	30.7	218.2	2.1		21.8	14	1673	00 30 00
00 31 30	=0131-001	03 45 34	30.6	218.6	2.2		22.0	90	1685	00 30 01
00 31 30	J0131-0045	03 45 34	29.6	219.0	2.2		22.2	-17	1685	No stop
00 35 30	---	03 49 35	29.2	220.1	2.3		22.7	223	1716	00 31 31
00 35 30	J0134+0003	03 49 35	30.2	219.7	2.2		22.6	-16	1716	No stop
00 37 00	=0131-001	03 51 05	30.1	220.1	2.3		22.8	74	1727	00 35 31
00 37 00	J0131-0045	03 51 05	29.1	220.5	2.3		22.9	-17	1727	No stop
00 41 00	---	03 55 06	28.7	221.5	2.4		23.5	223	1758	00 37 01
00 41 30	J0134+0003	03 55 36	29.6	221.3	2.3		23.4	14	1758	00 41 30
00 43 00	=0131-001	03 57 06	29.5	221.7	2.4		23.6	90	1770	00 41 31
00 43 00	J0131-0045	03 57 06	28.5	222.0	2.4		23.7	-17	1770	No stop
00 47 00	---	04 01 07	28.1	223.1	2.5		24.2	223	1801	00 43 01
00 47 00	J0134+0003	04 01 07	29.1	222.8	2.4		24.1	-17	1801	No stop
00 48 30	=0131-001	04 02 37	28.9	223.2	2.5		24.3	73	1812	00 47 01
00 48 30	J0131-0045	04 02 37	27.9	223.5	2.5		24.4	-17	1812	No stop
00 52 30	---	04 06 38	27.5	224.5	2.6		24.9	223	1843	00 48 31
00 53 00	J0134+0003	04 07 08	28.5	224.3	2.5		24.8	13	1843	00 53 00
00 54 30	=0131-001	04 08 38	28.3	224.7	2.6		25.0	90	1855	00 53 01
00 56 00	J0216-0105	04 10 08	31.0	213.4	1.9		19.3	52	1855	00 56 00
00 58 00	=0213-013	04 12 09	30.9	214.0	1.9		19.6	120	1870	00 56 01

Schedule for TORUN (Code Tr)

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EW039C

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 21 Oct 2024 Day 295 ---										
00 58 00	J0217-0045	04 12 09	31.3	213.8	1.9		19.5	-12	1870	No stop
01 02 00	---	04 16 09	30.9	214.9	2.0		20.1	228	1901	00 58 01
01 02 00	J0216-0105	04 16 09	30.5	215.1	2.0		20.2	-12	1901	No stop
01 03 30	=0213-013	04 17 40	30.4	215.5	2.0		20.4	78	1913	01 02 01
01 03 30	J0217-0045	04 17 40	30.8	215.3	2.0		20.3	-12	1913	No stop
01 07 30	---	04 21 40	30.5	216.4	2.1		20.9	228	1944	01 03 31
01 08 00	J0216-0105	04 22 10	30.0	216.7	2.1		21.0	18	1944	01 08 00
01 09 30	=0213-013	04 23 41	29.9	217.1	2.1		21.2	90	1955	01 08 01
01 09 30	J0217-0045	04 23 41	30.3	217.0	2.1		21.2	-12	1955	No stop
01 13 30	---	04 27 41	29.9	218.0	2.2		21.7	228	1986	01 09 31
01 13 30	J0216-0105	04 27 41	29.5	218.2	2.2		21.8	-12	1986	No stop
01 15 00	=0213-013	04 29 12	29.4	218.6	2.2		22.0	78	1998	01 13 31
01 15 00	J0217-0045	04 29 12	29.8	218.5	2.2		21.9	-12	1998	No stop
01 19 00	---	04 33 12	29.4	219.5	2.2		22.5	228	2029	01 15 01
01 19 30	J0216-0105	04 33 42	28.9	219.8	2.3		22.6	18	2029	01 19 30
01 21 00	=0213-013	04 35 13	28.8	220.2	2.3		22.8	90	2040	01 19 31
01 21 00	J0217-0045	04 35 13	29.2	220.0	2.3		22.7	-12	2040	No stop
01 25 00	---	04 39 13	28.8	221.1	2.3		23.3	228	2071	01 21 01
01 25 00	J0216-0105	04 39 13	28.4	221.2	2.4		23.3	-12	2071	No stop
01 26 30	=0213-013	04 40 43	28.3	221.6	2.4		23.5	78	2083	01 25 01
01 26 30	J0217-0045	04 40 43	28.7	221.5	2.4		23.4	-12	2083	No stop
01 30 30	---	04 44 44	28.3	222.5	2.4		24.0	228	2114	01 26 31
01 31 00	J0216-0105	04 45 14	27.8	222.8	2.5		24.1	18	2114	01 31 00
01 32 30	=0213-013	04 46 44	27.6	223.2	2.5		24.3	90	2126	01 31 01
01 32 30	J0217-0045	04 46 44	28.0	223.1	2.5		24.2	-12	2126	No stop
01 36 30	---	04 50 45	27.6	224.1	2.5		24.7	228	2156	01 32 31
01 36 30	J0216-0105	04 50 45	27.2	224.2	2.6		24.8	-12	2156	No stop
01 38 00	=0213-013	04 52 15	27.1	224.6	2.6		24.9	78	2168	01 36 31
01 38 00	J0217-0045	04 52 15	27.5	224.5	2.6		24.9	-12	2168	No stop
01 42 00	---	04 56 16	27.1	225.5	2.6		25.4	228	2199	01 38 01

Schedule for TORUN (Code Tr)

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EW039C

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 21 Oct 2024 Day 295 ---										
01 42 30	J0216-0105	04 56 46	26.6	225.7	2.7		25.5	17	2199	01 42 30
01 44 00	=0213-013	04 58 16	26.4	226.1	2.7		25.6	90	2211	01 42 31
01 45 30	J0253+0005	04 59 47	31.1	217.3	2.1		21.3	57	2211	01 45 30
01 47 30	=0250-001	05 01 47	30.9	217.9	2.1		21.6	120	2226	01 45 31
01 47 30	J0255+0014	05 01 47	31.2	217.4	2.1		21.4	-11	2226	No stop
01 51 30	---	05 05 48	30.8	218.5	2.2		22.0	229	2257	01 47 31
01 51 30	J0253+0005	05 05 48	30.5	218.9	2.2		22.2	-11	2257	No stop
01 53 00	=0250-001	05 07 18	30.4	219.3	2.2		22.4	79	2269	01 51 31
01 53 00	J0255+0014	05 07 18	30.7	218.9	2.2		22.2	-11	2269	No stop
01 57 00	---	05 11 19	30.3	220.0	2.2		22.7	229	2299	01 53 01
01 57 30	J0253+0005	05 11 49	29.9	220.6	2.3		23.0	19	2299	01 57 30
01 59 00	=0250-001	05 13 19	29.8	220.9	2.3		23.2	90	2311	01 57 31
01 59 00	J0255+0014	05 13 19	30.1	220.6	2.3		23.0	-11	2311	No stop
02 03 00	---	05 17 19	29.7	221.6	2.3		23.5	229	2342	01 59 01
02 03 00	J0253+0005	05 17 19	29.4	222.0	2.4		23.7	-12	2342	No stop
02 04 30	=0250-001	05 18 50	29.2	222.4	2.4		23.9	78	2354	02 03 01
02 04 30	J0255+0014	05 18 50	29.5	222.0	2.4		23.7	-11	2354	No stop
02 08 30	---	05 22 50	29.1	223.1	2.4		24.2	229	2384	02 04 31
02 09 00	J0253+0005	05 23 20	28.8	223.6	2.5		24.5	18	2384	02 09 00
02 10 30	=0250-001	05 24 51	28.6	224.0	2.5		24.6	90	2396	02 09 01
02 10 30	J0255+0014	05 24 51	28.9	223.6	2.5		24.5	-11	2396	No stop
02 14 30	---	05 28 51	28.5	224.6	2.5		24.9	229	2427	02 10 31
02 14 30	J0253+0005	05 28 51	28.2	225.0	2.6		25.1	-12	2427	No stop
02 16 00	=0250-001	05 30 22	28.0	225.4	2.6		25.3	78	2439	02 14 31
02 16 00	J0255+0014	05 30 22	28.4	225.0	2.6		25.1	-11	2439	No stop
02 20 00	---	05 34 22	27.9	226.0	2.6		25.6	229	2469	02 16 01
02 20 30	J0253+0005	05 34 52	27.5	226.5	2.7		25.8	18	2469	02 20 30
02 22 00	=0250-001	05 36 23	27.4	226.9	2.7		26.0	90	2481	02 20 31
02 22 00	J0255+0014	05 36 23	27.7	226.5	2.7		25.8	-11	2481	No stop
02 26 00	---	05 40 23	27.3	227.6	2.7		26.3	229	2512	02 22 01

Schedule for TORUN (Code Tr)

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EW039C

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 21 Oct 2024 Day 295 ---										
02 26 00	J0253+0005	05 40 23	26.9	227.9	2.8		26.5	-12	2512	No stop
02 27 30	=0250-001	05 41 54	26.8	228.3	2.8		26.6	78	2524	02 26 01
02 27 30	J0255+0014	05 41 54	27.1	227.9	2.8		26.5	-11	2524	No stop
02 31 30	---	05 45 54	26.6	228.9	2.8		26.9	229	2554	02 27 31
02 32 00	J0253+0005	05 46 24	26.3	229.4	2.9		27.1	18	2554	02 32 00
02 33 30	=0250-001	05 47 54	26.1	229.8	2.9		27.3	90	2566	02 32 01
02 35 00	J0315-0151	05 49 25	26.6	223.6	2.5		24.5	62	2566	02 35 00
02 37 00	---	05 51 25	26.4	224.1	2.6		24.7	120	2582	02 35 01
02 37 00	J0319-0021	05 51 25	28.2	223.8	2.5		24.6	-20	2582	No stop
02 41 00	---	05 55 26	27.7	224.8	2.6		25.1	220	2612	02 37 01
02 41 00	J0315-0151	05 55 26	26.0	225.1	2.6		25.2	-21	2612	No stop
02 42 30	---	05 56 56	25.8	225.5	2.7		25.4	69	2624	02 41 01
02 42 30	J0319-0021	05 56 56	27.6	225.2	2.6		25.2	-20	2624	No stop
02 46 30	---	06 00 57	27.2	226.3	2.7		25.7	220	2655	02 42 31
02 47 00	J0315-0151	06 01 27	25.3	226.6	2.7		25.9	9	2655	02 47 00
02 48 30	---	06 02 57	25.2	227.0	2.8		26.1	90	2667	02 47 01
02 48 30	J0319-0021	06 02 57	26.9	226.8	2.7		25.9	-20	2667	No stop
02 52 30	---	06 06 58	26.5	227.8	2.8		26.4	220	2697	02 48 31
02 52 30	J0315-0151	06 06 58	24.7	228.0	2.8		26.5	-21	2697	No stop
02 54 00	---	06 08 28	24.5	228.4	2.9		26.7	69	2709	02 52 31
02 54 00	J0319-0021	06 08 28	26.3	228.1	2.8		26.6	-20	2709	No stop
02 58 00	---	06 12 29	25.9	229.1	2.9		27.0	220	2740	02 54 01
02 58 30	J0315-0151	06 12 59	24.0	229.5	2.9		27.2	9	2740	02 58 30
03 00 00	---	06 14 29	23.9	229.8	3.0		27.3	90	2752	02 58 31
03 00 00	J0319-0021	06 14 29	25.6	229.6	2.9		27.2	-20	2752	No stop
03 04 00	---	06 18 30	25.2	230.6	3.0		27.7	220	2782	03 00 01
03 04 00	J0315-0151	06 18 30	23.4	230.8	3.0		27.8	-21	2782	No stop
03 05 30	---	06 20 00	23.2	231.2	3.1		27.9	69	2794	03 04 01
03 05 30	J0319-0021	06 20 00	25.0	231.0	3.0		27.8	-20	2794	No stop
03 09 30	---	06 24 00	24.5	232.0	3.1		28.2	220	2825	03 05 31

Schedule for TORUN (Code Tr)

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EW039C

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  21 Oct 2024  Day 295 ---

03 10 00  J0315-0151  06 24 30  22.7 232.3  3.1      28.4   9   2825  03 10 00
03 11 30  ---          06 26 01  22.5 232.6  3.2      28.5  90   2837  03 10 01

03 11 30  J0319-0021  06 26 01  24.3 232.4  3.1      28.4  -20  2837  No stop
03 15 30  ---          06 30 01  23.8 233.4  3.2      28.8  220  2868  03 11 31

03 15 30  J0315-0151  06 30 01  22.0 233.6  3.2      28.9  -21  2868  No stop
03 17 00  ---          06 31 32  21.8 233.9  3.2      29.0   69  2879  03 15 31

03 17 00  J0319-0021  06 31 32  23.6 233.8  3.2      29.0  -20  2879  No stop
03 21 00  ---          06 35 32  23.1 234.7  3.2      29.4  220  2910  03 17 01

03 21 30  J0315-0151  06 36 02  21.3 235.0  3.3      29.5   9   2910  03 21 30
03 23 00  ---          06 37 33  21.1 235.3  3.3      29.6  90   2922  03 21 31

03 25 00  0234+285    06 39 33  40.5 265.5  4.0      43.1  33   2922  03 25 00
03 30 00  ---          06 44 34  39.7 266.6  4.1      43.2  300  2960  03 25 01

```

SETUP FILE INFORMATION:

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

==== Setup file: sess324.L1024

```

Setup group:    7          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)
* J0319-0021	03 17 05.882774 -00 32 00.96385	* 03 19 39.240350 *-00 21 11.35001	03 20 56.411342 -00 15 38.72667	0.00 0.00
* J0315-0151	03 13 10.417507 -02 02 25.89309	* 03 15 42.463884 *-01 51 23.26529	03 16 58.999820 -01 45 44.08211	0.00 0.00
* J0255+0014	02 52 32.079156 00 02 39.54444	* 02 55 05.948986 * 00 14 47.04547	02 56 23.409088 00 20 57.77681	0.00 0.00
* J0217-0045	02 14 40.207373 -00 59 17.66154	* 02 17 13.395005 *-00 45 26.69170	02 18 30.547242 -00 38 25.36077	0.00 0.00
* J0131-0045	01 29 02.570368 -01 00 43.14518	* 01 31 35.935711 *-00 45 17.79952	01 32 53.151830 -00 37 30.70144	0.00 0.00
0131-001	01 31 38.973538	* 01 34 12.704146	01 35 30.099445	0.15
* J0134+0003	-00 11 35.76111 /home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution,	* 00 03 45.13815	00 11 30.12469	0.28
0213-013	02 13 39.235141	* 02 16 12.211904	02 17 29.261653	0.14
* J0216-0105	-01 19 12.27494 /home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution,	*-01 05 18.82329	-00 58 16.27570	0.36
* 0234+285	02 34 55.589590	* 02 37 52.405677	02 39 21.311466	0.00
J0237+2848	28 35 11.40773	* 28 48 08.98999	28 54 41.60187	0.00
J0237+28	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution,		58420 observations.	
0250-001	02 50 47.283466	* 02 53 21.035450	02 54 38.439896	0.09
J0253+0006	-00 06 12.78910	* 00 05 59.94708	00 12 13.25461	0.19
* J0253+0005	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution,		90 observations.	

* 3C454.3	22 51 29.519739	* 22 53 57.747939	22 55 11.869865	0.65
J2253+1608	15 52 54.34808	* 16 08 53.56091	16 16 57.66732	0.73
2251+158	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J2253+16	GSFC 2016a X/S astro solution, 41272 observations.			

n24c3tr

NETWORK MONITORING EXPERIMENT
PI: Benito Marcote

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 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 Oct 2024 Day 299 ---										
Next scan frequencies:		4632.00	4632.00	4632.00	4632.00	4632.00	4696.00	4696.00	4696.00	4696.00
		4760.00	4760.00	4760.00	4760.00	4760.00	4824.00	4824.00	4824.00	4824.00
		4888.00	4888.00	4888.00	4888.00	4888.00	4952.00	4952.00	4952.00	4952.00
		5016.00	5016.00	5016.00	5016.00	5016.00	5080.00	5080.00	5080.00	5080.00
Next BBC frequencies:		544.00	544.00	544.00	544.00	544.00	608.00	608.00	608.00	608.00
		672.00	672.00	672.00	672.00	672.00	736.00	736.00	736.00	736.00
		800.00	800.00	800.00	800.00	800.00	864.00	864.00	864.00	864.00
		928.00	928.00	928.00	928.00	928.00	992.00	992.00	992.00	992.00
Next scan bandwidths:		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
12 00 00	J1751+0939	15 31 44	38.1	133.7	-2.3	-26.1	0	0	12 00 00	
12 02 00	=1749+096	15 33 44	38.3	134.2	-2.3	-25.9	120	62	12 00 01	
12 07 00	J1751+0939	15 38 45	38.9	135.7	-2.2	-25.2	293	62	12 07 00	
12 12 00	=1749+096	15 43 46	39.4	137.1	-2.1	-24.5	300	216	12 07 01	
12 17 00	J1751+0939	15 48 47	39.9	138.6	-2.1	-23.8	293	216	12 17 00	
12 27 00	=1749+096	15 58 48	40.9	141.6	-1.9	-22.2	600	526	12 17 01	
12 32 00	J1751+0939	16 03 49	41.3	143.1	-1.8	-21.5	293	526	12 32 00	
12 42 00	=1749+096	16 13 51	42.2	146.2	-1.6	-19.8	600	835	12 32 01	
12 47 00	J2031+1219	16 18 52	25.7	104.0	-4.2	-36.6	199	835	12 47 00	
12 57 00	=2029+121	16 28 53	27.1	106.2	-4.1	-36.2	600	1144	12 47 01	
13 02 00	J2031+1219	16 33 54	27.8	107.4	-4.0	-35.9	293	1144	13 02 00	
13 12 00	=2029+121	16 43 56	29.3	109.6	-3.8	-35.4	600	1453	13 02 01	
13 17 00	J2031+1219	16 48 56	30.0	110.8	-3.7	-35.1	293	1453	13 17 00	
13 27 00	=2029+121	16 58 58	31.4	113.1	-3.6	-34.4	600	1762	13 17 01	
13 32 00	J2031+1219	17 03 59	32.1	114.3	-3.5	-34.1	293	1762	13 32 00	
13 42 00	=2029+121	17 14 01	33.4	116.7	-3.3	-33.3	600	2071	13 32 01	
13 47 00	J2031+1219	17 19 01	34.1	118.0	-3.2	-32.9	293	2071	13 47 00	
13 57 00	=2029+121	17 29 03	35.4	120.5	-3.1	-32.0	600	2381	13 47 01	
14 02 00	J2031+1219	17 34 04	36.0	121.7	-3.0	-31.5	293	2381	14 02 00	
14 12 00	=2029+121	17 44 05	37.3	124.4	-2.8	-30.5	600	2690	14 02 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
-----
--- Fri 25 Oct 2024  Day 299 ---
14 17 00  J2031+1219  17 49 06  37.9 125.7 -2.7   -30.0  293   2690  14 17 00
14 27 00  =2029+121   17 59 08  39.1 128.4 -2.6   -28.8  600   2999  14 17 01

14 32 00  J2031+1219  18 04 09  39.7 129.8 -2.5   -28.2  293   2999  14 32 00
14 42 00  =2029+121   18 14 10  40.8 132.7 -2.3   -26.9  600   3308  14 32 01

14 47 00  J2031+1219  18 19 11  41.4 134.1 -2.2   -26.2  293   3308  14 47 00
14 52 00  =2029+121   18 24 12  41.9 135.6 -2.1   -25.5  300   3463  14 47 01

14 57 00  J2031+1219  18 29 13  42.4 137.1 -2.1   -24.8  293   3463  14 57 00
15 00 00  =2029+121   18 32 13  42.7 138.0 -2.0   -24.3  180   3555  14 57 01

```

SETUP FILE INFORMATION:

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

==== Setup file: sess324.C4096

Matching groups in /Users/hawky/.pysched/catalogs/freq_RDBE.dat:

tr6cm_g Generated from sess320C4G.setini

```

Setup group:    7          Station: TORUN          Total bit rate: 4096
Format: VDIF    Bits per sample: 2    Sample rate: 64.000
Number of channels: 32    DBE type: DBBC_DDC    Speedup factor: 1.00

```

Disk used to record data.

1st LO=	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00
	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00
	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00
	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00
Net SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF SB =	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	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
	5	13	5	13	6	14	6	14	14
	7	15	7	15	8	16	8	16	16
BBC SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF =	A1	B1	A1	B1	A1	B1	A1	B1	B1
	A1	B1	A1	B1	A1	B1	A1	B1	B1
	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: 7 Setup file default. Used with PCAL = off

LO sum=	4632.00	4632.00	4632.00	4632.00	4696.00	4696.00	4696.00	4696.00
	4760.00	4760.00	4760.00	4760.00	4824.00	4824.00	4824.00	4824.00
	4888.00	4888.00	4888.00	4888.00	4952.00	4952.00	4952.00	4952.00
	5016.00	5016.00	5016.00	5016.00	5080.00	5080.00	5080.00	5080.00
BBC fr=	544.00	544.00	544.00	544.00	608.00	608.00	608.00	608.00
	672.00	672.00	672.00	672.00	736.00	736.00	736.00	736.00
	800.00	800.00	800.00	800.00	864.00	864.00	864.00	864.00
	928.00	928.00	928.00	928.00	992.00	992.00	992.00	992.00
Bandwd=	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	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, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec)		Error	
	(B1950)	(J2000)	(mas)	
		(Date)		
1749+096	17 49 10.387930	* 17 51 32.818574	17 52 42.554513	0.00
* J1751+0939	09 39 42.82586	* 09 39 00.72841	09 38 43.72523	0.00
J1751+09	/Users/hawky/.psyched/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 192391 observations.			

2029+121	20 29 32.681260	* 20 31 54.994267	20 33 05.414525	0.01
* J2031+1219	12 09 28.75299	* 12 19 41.34015	12 24 51.31940	0.02
J2031+12	/Users/hawky/.pysched/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 4314 observations.			

VLBI ASTRONOMY ON THE IMBH-TDE AT2018CQH

PI: Jun Yang

Address: Onsala Space Observatory

Schedule for TORUN (Code Tr) Page 2

VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024 Day 301 ---										
Next scan frequencies:		4632.00	4632.00	4632.00	4632.00	4632.00	4632.00	4696.00	4696.00	4696.00
		4760.00	4760.00	4760.00	4760.00	4760.00	4760.00	4824.00	4824.00	4824.00
		4888.00	4888.00	4888.00	4888.00	4888.00	4888.00	4952.00	4952.00	4952.00
		5016.00	5016.00	5016.00	5016.00	5016.00	5016.00	5080.00	5080.00	5080.00
Next BBC frequencies:		544.00	544.00	544.00	544.00	544.00	544.00	608.00	608.00	608.00
		672.00	672.00	672.00	672.00	672.00	672.00	736.00	736.00	736.00
		800.00	800.00	800.00	800.00	800.00	800.00	864.00	864.00	864.00
		928.00	928.00	928.00	928.00	928.00	928.00	992.00	992.00	992.00
Next scan bandwidths:		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
20 00 00	J0239-0234	23 40 56	22.9	129.9	-3.0		-27.5	0	0	20 00 00
20 02 20	=0237-027	23 43 16	23.2	130.4	-3.0		-27.2	140	72	20 00 01
20 03 00	R32J0231	23 43 56	25.4	131.9	-2.8		-26.6	18	72	20 03 00
20 03 30	---	23 44 26	25.5	132.0	-2.8		-26.5	30	88	20 03 01
20 03 55	R32J0231	23 44 51	25.5	132.1	-2.8		-26.5	19	88	20 03 55
20 04 20	---	23 45 16	25.6	132.2	-2.8		-26.4	25	100	20 03 56
20 04 40	AT2018CQH	23 45 37	25.5	131.7	-2.8		-26.6	8	100	20 04 40
20 06 30	---	23 47 27	25.7	132.2	-2.8		-26.4	110	157	20 04 41
20 06 50	R32J0231	23 47 47	25.9	132.8	-2.8		-26.1	8	157	20 06 50
20 07 20	---	23 48 17	25.9	133.0	-2.7		-26.1	30	173	20 06 51
20 07 40	R13J0234	23 48 37	26.0	132.3	-2.8		-26.4	7	173	20 07 40
20 09 30	---	23 50 27	26.2	132.7	-2.7		-26.2	110	229	20 07 41
20 09 55	R32J0231	23 50 52	26.2	133.6	-2.7		-25.8	12	229	20 09 55
20 10 20	---	23 51 17	26.3	133.7	-2.7		-25.7	25	242	20 09 56
20 10 40	AT2018CQH	23 51 37	26.2	133.2	-2.7		-26.0	8	242	20 10 40
20 12 30	---	23 53 28	26.4	133.7	-2.7		-25.8	110	299	20 10 41
20 12 50	R32J0231	23 53 48	26.5	134.3	-2.7		-25.4	8	299	20 12 50
20 13 20	---	23 54 18	26.6	134.5	-2.6		-25.4	30	314	20 12 51
20 13 40	R13J0234	23 54 38	26.7	133.8	-2.7		-25.7	7	314	20 13 40
20 15 30	---	23 56 28	26.9	134.2	-2.6		-25.5	110	371	20 13 41

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024	Day 301					---				
20 15 55	R32J0231	23 56 53	26.9	135.1	-2.6		-25.1	12	371	20 15 55	
20 16 20	---	23 57 18	26.9	135.2	-2.6		-25.0	25	384	20 15 56	
20 16 40	AT2018CQH	23 57 38	26.8	134.7	-2.6		-25.3	8	384	20 16 40	
20 18 30	---	23 59 29	27.0	135.2	-2.6		-25.0	110	441	20 16 41	
20 18 50	R32J0231	23 59 49	27.2	135.9	-2.6		-24.7	8	441	20 18 50	
20 19 20	---	00 00 19	27.2	136.0	-2.5		-24.7	30	456	20 18 51	
20 19 40	R13J0234	00 00 39	27.3	135.3	-2.6		-25.0	7	456	20 19 40	
20 21 30	---	00 02 29	27.5	135.8	-2.5		-24.8	110	513	20 19 41	
20 21 55	R32J0231	00 02 54	27.5	136.7	-2.5		-24.3	12	513	20 21 55	
20 22 20	---	00 03 19	27.5	136.8	-2.5		-24.3	25	526	20 21 56	
20 22 40	AT2018CQH	00 03 39	27.5	136.2	-2.5		-24.5	8	526	20 22 40	
20 24 30	---	00 05 30	27.7	136.7	-2.5		-24.3	110	582	20 22 41	
20 24 50	R32J0231	00 05 50	27.8	137.4	-2.5		-24.0	8	582	20 24 50	
20 25 20	---	00 06 20	27.8	137.5	-2.4		-23.9	30	598	20 24 51	
20 25 40	R13J0234	00 06 40	27.9	136.8	-2.5		-24.3	7	598	20 25 40	
20 27 30	---	00 08 30	28.1	137.3	-2.4		-24.0	110	654	20 25 41	
20 27 55	R32J0231	00 08 55	28.1	138.2	-2.4		-23.6	12	654	20 27 55	
20 28 20	---	00 09 20	28.1	138.3	-2.4		-23.5	25	667	20 27 56	
20 28 40	AT2018CQH	00 09 40	28.1	137.8	-2.4		-23.8	8	667	20 28 40	
20 30 30	---	00 11 31	28.3	138.3	-2.4		-23.6	110	724	20 28 41	
20 30 50	R32J0231	00 11 51	28.4	139.0	-2.4		-23.2	8	724	20 30 50	
20 31 20	---	00 12 21	28.4	139.1	-2.3		-23.2	30	739	20 30 51	
20 31 40	R13J0234	00 12 41	28.5	138.4	-2.4		-23.5	7	739	20 31 40	
20 33 30	---	00 14 31	28.7	138.9	-2.3		-23.3	110	796	20 31 41	
20 33 55	R32J0231	00 14 56	28.7	139.8	-2.3		-22.8	12	796	20 33 55	
20 34 20	---	00 15 21	28.7	139.9	-2.3		-22.8	25	809	20 33 56	
20 34 40	AT2018CQH	00 15 41	28.7	139.4	-2.3		-23.0	8	809	20 34 40	
20 36 30	---	00 17 32	28.9	139.9	-2.3		-22.8	110	866	20 34 41	
20 36 50	R32J0231	00 17 52	29.0	140.6	-2.3		-22.4	8	866	20 36 50	
20 37 20	---	00 18 22	29.0	140.7	-2.2		-22.4	30	881	20 36 51	
20 37 40	R13J0234	00 18 42	29.1	140.0	-2.3		-22.7	7	881	20 37 40	
20 39 30	---	00 20 32	29.3	140.5	-2.2		-22.5	110	938	20 37 41	

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqH

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 Oct 2024 Day 301 ---										
20 39 55	R32J0231	00 20 57	29.3	141.4	-2.2		-22.0	12	938	20 39 55
20 40 20	---	00 21 22	29.3	141.5	-2.2		-22.0	25	951	20 39 56
20 40 40	AT2018CQH	00 21 42	29.3	141.0	-2.2		-22.2	8	951	20 40 40
20 42 30	---	00 23 33	29.4	141.4	-2.2		-22.0	110	1007	20 40 41
20 42 50	R32J0231	00 23 53	29.5	142.2	-2.2		-21.6	8	1007	20 42 50
20 43 20	---	00 24 23	29.6	142.3	-2.1		-21.6	30	1023	20 42 51
20 43 40	R13J0234	00 24 43	29.7	141.6	-2.2		-21.9	7	1023	20 43 40
20 45 30	---	00 26 33	29.9	142.1	-2.1		-21.7	110	1080	20 43 41
20 45 55	R32J0231	00 26 58	29.8	143.0	-2.1		-21.2	12	1080	20 45 55
20 46 20	---	00 27 23	29.9	143.1	-2.1		-21.1	25	1092	20 45 56
20 46 40	AT2018CQH	00 27 43	29.8	142.6	-2.1		-21.4	8	1092	20 46 40
20 48 30	---	00 29 34	30.0	143.1	-2.1		-21.2	110	1149	20 46 41
20 48 50	R32J0231	00 29 54	30.1	143.8	-2.1		-20.8	8	1149	20 48 50
20 49 20	---	00 30 24	30.1	143.9	-2.0		-20.7	30	1165	20 48 51
20 49 40	R13J0234	00 30 44	30.2	143.2	-2.1		-21.1	7	1165	20 49 40
20 51 30	---	00 32 34	30.4	143.7	-2.0		-20.8	110	1221	20 49 41
20 51 55	R32J0231	00 32 59	30.3	144.6	-2.0		-20.4	12	1221	20 51 55
20 52 20	---	00 33 24	30.4	144.7	-2.0		-20.3	25	1234	20 51 56
20 52 40	AT2018CQH	00 33 44	30.4	144.2	-2.0		-20.6	8	1234	20 52 40
20 54 30	---	00 35 35	30.5	144.7	-2.0		-20.3	110	1291	20 52 41
20 54 50	R32J0231	00 35 55	30.6	145.4	-2.0		-19.9	8	1291	20 54 50
20 55 20	---	00 36 25	30.6	145.5	-1.9		-19.9	30	1306	20 54 51
20 55 40	R13J0234	00 36 45	30.8	144.8	-2.0		-20.2	7	1306	20 55 40
20 57 30	---	00 38 35	30.9	145.3	-1.9		-20.0	110	1363	20 55 41
20 57 55	R32J0231	00 39 00	30.9	146.2	-1.9		-19.5	12	1363	20 57 55
20 58 20	---	00 39 25	30.9	146.4	-1.9		-19.4	25	1376	20 57 56
20 58 40	AT2018CQH	00 39 45	30.9	145.8	-1.9		-19.7	8	1376	20 58 40
21 00 30	---	00 41 36	31.0	146.3	-1.9		-19.4	110	1432	20 58 41
21 00 50	R32J0231	00 41 56	31.1	147.1	-1.9		-19.1	8	1432	21 00 50
21 01 20	---	00 42 26	31.1	147.2	-1.8		-19.0	30	1448	21 00 51

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqH

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 Oct 2024 Day 301 ---										
21 01 40	R13J0234	00 42 46	31.3	146.5	-1.9		-19.4	7	1448	21 01 40
21 03 30	---	00 44 36	31.4	147.0	-1.8		-19.1	110	1505	21 01 41
21 03 55	R32J0231	00 45 01	31.4	147.9	-1.8		-18.6	12	1505	21 03 55
21 04 20	---	00 45 26	31.4	148.0	-1.8		-18.5	25	1517	21 03 56
21 04 40	AT2018CQH	00 45 46	31.4	147.5	-1.8		-18.8	8	1517	21 04 40
21 06 30	---	00 47 37	31.5	148.0	-1.8		-18.6	110	1574	21 04 41
21 06 50	R32J0231	00 47 57	31.6	148.7	-1.8		-18.2	8	1574	21 06 50
21 07 20	---	00 48 27	31.6	148.9	-1.7		-18.1	30	1590	21 06 51
21 07 40	R13J0234	00 48 47	31.8	148.1	-1.8		-18.5	7	1590	21 07 40
21 09 30	---	00 50 37	31.9	148.7	-1.7		-18.2	110	1646	21 07 41
21 09 55	R32J0231	00 51 02	31.8	149.6	-1.7		-17.7	12	1646	21 09 55
21 10 20	---	00 51 27	31.9	149.7	-1.7		-17.6	25	1659	21 09 56
21 10 40	AT2018CQH	00 51 47	31.9	149.2	-1.7		-17.9	8	1659	21 10 40
21 12 30	---	00 53 38	32.0	149.7	-1.7		-17.7	110	1716	21 10 41
21 12 50	R32J0231	00 53 58	32.0	150.4	-1.7		-17.3	8	1716	21 12 50
21 13 20	---	00 54 28	32.1	150.5	-1.6		-17.2	30	1731	21 12 51
21 13 40	R13J0234	00 54 48	32.2	149.8	-1.7		-17.6	7	1731	21 13 40
21 15 30	---	00 56 38	32.4	150.4	-1.6		-17.3	110	1788	21 13 41
21 15 50	R32J0231	00 56 58	32.3	151.3	-1.6		-16.8	7	1788	21 15 50
21 16 20	---	00 57 28	32.3	151.4	-1.6		-16.7	30	1803	21 15 51
21 17 00	J0239-0234	00 58 08	30.4	149.8	-1.7		-17.6	19	1803	21 17 00
21 19 20	=0237-027	01 00 29	30.6	150.5	-1.7		-17.2	140	1876	21 17 01
21 20 00	R32J0231	01 01 09	32.6	152.4	-1.5		-16.1	19	1876	21 20 00
21 20 30	---	01 01 39	32.6	152.6	-1.5		-16.1	30	1891	21 20 01
21 20 55	R32J0231	01 02 04	32.6	152.7	-1.5		-16.0	19	1891	21 20 55
21 21 20	---	01 02 29	32.6	152.8	-1.5		-15.9	25	1904	21 20 56
21 21 40	AT2018CQH	01 02 49	32.7	152.3	-1.5		-16.2	8	1904	21 21 40
21 23 30	---	01 04 39	32.8	152.8	-1.5		-15.9	110	1961	21 21 41
21 23 50	R32J0231	01 05 00	32.8	153.5	-1.5		-15.5	8	1961	21 23 50
21 24 20	---	01 05 30	32.9	153.7	-1.5		-15.4	30	1976	21 23 51

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqH

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 Oct 2024 Day 301 ---										
21 24 40	R13J0234	01 05 50	33.0	153.0	-1.5		-15.8	7	1976	21 24 40
21 26 30	---	01 07 40	33.2	153.5	-1.5		-15.5	110	2033	21 24 41
21 26 55	R32J0231	01 08 05	33.0	154.4	-1.4		-15.0	12	2033	21 26 55
21 27 20	---	01 08 30	33.0	154.5	-1.4		-15.0	25	2046	21 26 56
21 27 40	AT2018CQH	01 08 50	33.1	154.0	-1.4		-15.3	8	2046	21 27 40
21 29 30	---	01 10 40	33.2	154.5	-1.4		-15.0	110	2102	21 27 41
21 29 50	R32J0231	01 11 01	33.2	155.3	-1.4		-14.5	8	2102	21 29 50
21 30 20	---	01 11 31	33.2	155.4	-1.4		-14.5	30	2118	21 29 51
21 30 40	R13J0234	01 11 51	33.4	154.7	-1.4		-14.9	7	2118	21 30 40
21 32 30	---	01 13 41	33.5	155.2	-1.4		-14.6	110	2174	21 30 41
21 32 55	R32J0231	01 14 06	33.4	156.2	-1.3		-14.0	12	2174	21 32 55
21 33 20	---	01 14 31	33.4	156.3	-1.3		-14.0	25	2187	21 32 56
21 33 40	AT2018CQH	01 14 51	33.5	155.7	-1.3		-14.3	8	2187	21 33 40
21 35 30	---	01 16 41	33.6	156.3	-1.3		-14.0	110	2244	21 33 41
21 35 50	R32J0231	01 17 01	33.6	157.0	-1.3		-13.6	8	2244	21 35 50
21 36 20	---	01 17 32	33.6	157.2	-1.3		-13.5	30	2259	21 35 51
21 36 40	R13J0234	01 17 52	33.8	156.5	-1.3		-13.9	7	2259	21 36 40
21 38 30	---	01 19 42	33.9	157.0	-1.3		-13.6	110	2316	21 36 41
21 38 55	R32J0231	01 20 07	33.8	157.9	-1.2		-13.0	12	2316	21 38 55
21 39 20	---	01 20 32	33.8	158.0	-1.2		-13.0	25	2329	21 38 56
21 39 40	AT2018CQH	01 20 52	33.8	157.5	-1.2		-13.3	8	2329	21 39 40
21 41 30	---	01 22 42	33.9	158.0	-1.2		-13.0	110	2386	21 39 41
21 41 50	R32J0231	01 23 02	33.9	158.8	-1.2		-12.6	8	2386	21 41 50
21 42 20	---	01 23 33	33.9	158.9	-1.2		-12.5	30	2401	21 41 51
21 42 40	R13J0234	01 23 53	34.2	158.2	-1.2		-12.9	7	2401	21 42 40
21 44 30	---	01 25 43	34.3	158.8	-1.2		-12.6	110	2458	21 42 41
21 44 55	R32J0231	01 26 08	34.1	159.7	-1.1		-12.0	12	2458	21 44 55
21 45 20	---	01 26 33	34.1	159.8	-1.1		-12.0	25	2471	21 44 56
21 45 40	AT2018CQH	01 26 53	34.1	159.3	-1.1		-12.3	8	2471	21 45 40
21 47 30	---	01 28 43	34.2	159.8	-1.1		-12.0	110	2527	21 45 41

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024 Day 301 ---										
21 47 50	R32J0231	01 29 03	34.2	160.6	-1.1		-11.5	8	2527	21 47 50
21 48 20	---	01 29 34	34.3	160.7	-1.1		-11.4	30	2543	21 47 51
21 48 40	R13J0234	01 29 54	34.5	160.0	-1.1		-11.9	7	2543	21 48 40
21 50 30	---	01 31 44	34.6	160.5	-1.1		-11.5	110	2600	21 48 41
21 50 55	R32J0231	01 32 09	34.4	161.5	-1.0		-11.0	12	2600	21 50 55
21 51 20	---	01 32 34	34.4	161.6	-1.0		-10.9	25	2612	21 50 56
21 51 40	AT2018CQH	01 32 54	34.5	161.0	-1.0		-11.3	8	2612	21 51 40
21 53 30	---	01 34 44	34.5	161.6	-1.0		-10.9	110	2669	21 51 41
21 53 50	R32J0231	01 35 04	34.5	162.3	-1.0		-10.5	8	2669	21 53 50
21 54 20	---	01 35 35	34.5	162.5	-1.0		-10.4	30	2685	21 53 51
21 54 40	R13J0234	01 35 55	34.8	161.8	-1.0		-10.8	7	2685	21 54 40
21 56 30	---	01 37 45	34.9	162.3	-1.0		-10.5	110	2741	21 54 41
21 56 55	R32J0231	01 38 10	34.7	163.3	-0.9		-10.0	12	2741	21 56 55
21 57 20	---	01 38 35	34.7	163.4	-0.9		-9.9	25	2754	21 56 56
21 57 40	AT2018CQH	01 38 55	34.7	162.8	-0.9		-10.2	8	2754	21 57 40
21 59 30	---	01 40 45	34.8	163.4	-0.9		-9.9	110	2811	21 57 41
21 59 50	R32J0231	01 41 05	34.8	164.1	-0.9		-9.4	8	2811	21 59 50
22 00 20	---	01 41 36	34.8	164.3	-0.9		-9.4	30	2826	21 59 51
22 00 40	R13J0234	01 41 56	35.0	163.6	-0.9		-9.8	7	2826	22 00 40
22 02 30	---	01 43 46	35.1	164.1	-0.9		-9.4	110	2883	22 00 41
22 02 55	R32J0231	01 44 11	34.9	165.1	-0.8		-8.9	12	2883	22 02 55
22 03 20	---	01 44 36	34.9	165.2	-0.8		-8.8	25	2896	22 02 56
22 03 40	AT2018CQH	01 44 56	35.0	164.6	-0.8		-9.2	8	2896	22 03 40
22 05 30	---	01 46 46	35.1	165.2	-0.8		-8.8	110	2953	22 03 41
22 05 50	R32J0231	01 47 06	35.0	166.0	-0.8		-8.4	8	2953	22 05 50
22 06 20	---	01 47 36	35.0	166.1	-0.8		-8.3	30	2968	22 05 51
22 06 40	R13J0234	01 47 57	35.3	165.4	-0.8		-8.7	7	2968	22 06 40
22 08 30	---	01 49 47	35.3	166.0	-0.8		-8.4	110	3025	22 06 41
22 08 55	R32J0231	01 50 12	35.1	166.9	-0.7		-7.8	12	3025	22 08 55
22 09 20	---	01 50 37	35.1	167.0	-0.7		-7.8	25	3038	22 08 56

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024 Day 301 ---										
22 09 40	AT2018CQH	01 50 57	35.2	166.5	-0.7		-8.1	8	3038	22 09 40
22 11 30	---	01 52 47	35.3	167.0	-0.7		-7.8	110	3094	22 09 41
22 11 50	R32J0231	01 53 07	35.2	167.8	-0.7		-7.3	8	3094	22 11 50
22 12 20	---	01 53 37	35.2	167.9	-0.7		-7.2	30	3110	22 11 51
22 12 40	R13J0234	01 53 58	35.5	167.2	-0.7		-7.6	7	3110	22 12 40
22 14 30	---	01 55 48	35.6	167.8	-0.7		-7.3	110	3166	22 12 41
22 14 55	R32J0231	01 56 13	35.3	168.7	-0.6		-6.7	12	3166	22 14 55
22 15 20	---	01 56 38	35.3	168.8	-0.6		-6.7	25	3179	22 14 56
22 15 40	AT2018CQH	01 56 58	35.4	168.3	-0.6		-7.0	8	3179	22 15 40
22 17 30	---	01 58 48	35.5	168.8	-0.6		-6.7	110	3236	22 15 41
22 17 50	R32J0231	01 59 08	35.4	169.6	-0.6		-6.2	8	3236	22 17 50
22 18 20	---	01 59 38	35.4	169.8	-0.6		-6.1	30	3251	22 17 51
22 18 40	R13J0234	01 59 59	35.7	169.1	-0.6		-6.5	7	3251	22 18 40
22 20 30	---	02 01 49	35.7	169.6	-0.6		-6.2	110	3308	22 18 41
22 20 55	R32J0231	02 02 14	35.5	170.6	-0.5		-5.7	12	3308	22 20 55
22 21 20	---	02 02 39	35.5	170.7	-0.5		-5.6	25	3321	22 20 56
22 21 40	AT2018CQH	02 02 59	35.6	170.1	-0.5		-5.9	8	3321	22 21 40
22 23 30	---	02 04 49	35.6	170.7	-0.5		-5.6	110	3378	22 21 41
22 23 50	R32J0231	02 05 09	35.5	171.4	-0.5		-5.1	8	3378	22 23 50
22 24 20	---	02 05 39	35.5	171.6	-0.5		-5.0	30	3393	22 23 51
22 24 40	R13J0234	02 06 00	35.8	170.9	-0.5		-5.4	7	3393	22 24 40
22 26 30	---	02 07 50	35.9	171.5	-0.5		-5.1	110	3450	22 24 41
22 26 55	R32J0231	02 08 15	35.6	172.4	-0.4		-4.6	12	3450	22 26 55
22 27 20	---	02 08 40	35.6	172.5	-0.4		-4.5	25	3463	22 26 56
22 27 40	AT2018CQH	02 09 00	35.7	172.0	-0.4		-4.8	8	3463	22 27 40
22 29 30	---	02 10 50	35.8	172.5	-0.4		-4.5	110	3519	22 27 41
22 29 50	R32J0231	02 11 10	35.7	173.3	-0.4		-4.0	8	3519	22 29 50
22 30 20	---	02 11 40	35.7	173.4	-0.4		-3.9	30	3535	22 29 51
22 30 40	R13J0234	02 12 00	36.0	172.8	-0.4		-4.3	7	3535	22 30 40
22 32 30	---	02 13 51	36.0	173.3	-0.4		-4.0	110	3591	22 30 41

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqH

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 Oct 2024 Day 301 ---										
22 32 55	R32J0231	02 14 16	35.7	174.2	-0.3		-3.5	12	3591	22 32 55
22 33 20	---	02 14 41	35.7	174.4	-0.3		-3.4	25	3604	22 32 56
22 33 40	AT2018CQH	02 15 01	35.8	173.8	-0.3		-3.7	8	3604	22 33 40
22 35 30	---	02 16 51	35.9	174.4	-0.3		-3.4	110	3661	22 33 41
22 35 50	R32J0231	02 17 11	35.7	175.1	-0.3		-2.9	8	3661	22 35 50
22 36 20	---	02 17 41	35.8	175.3	-0.3		-2.8	30	3676	22 35 51
22 36 40	R13J0234	02 18 01	36.1	174.6	-0.3		-3.2	7	3676	22 36 40
22 38 30	---	02 19 52	36.1	175.2	-0.3		-2.9	110	3733	22 36 41
22 38 55	R32J0231	02 20 17	35.8	176.1	-0.2		-2.3	12	3733	22 38 55
22 39 20	---	02 20 42	35.8	176.2	-0.2		-2.3	25	3746	22 38 56
22 39 40	AT2018CQH	02 21 02	35.9	175.7	-0.2		-2.6	8	3746	22 39 40
22 41 30	---	02 22 52	35.9	176.2	-0.2		-2.3	110	3803	22 39 41
22 41 50	R32J0231	02 23 12	35.8	177.0	-0.2		-1.8	8	3803	22 41 50
22 42 20	---	02 23 42	35.8	177.1	-0.2		-1.7	30	3818	22 41 51
22 42 40	R13J0234	02 24 02	36.1	176.5	-0.2		-2.1	7	3818	22 42 40
22 44 30	---	02 25 53	36.1	177.0	-0.2		-1.8	110	3875	22 42 41
22 44 55	R32J0231	02 26 18	35.8	177.9	-0.1		-1.2	12	3875	22 44 55
22 45 20	---	02 26 43	35.8	178.1	-0.1		-1.2	25	3888	22 44 56
22 45 40	AT2018CQH	02 27 03	36.0	177.5	-0.1		-1.5	8	3888	22 45 40
22 47 30	---	02 28 53	36.0	178.1	-0.1		-1.1	110	3944	22 45 41
22 47 50	R32J0231	02 29 13	35.8	178.8	-0.1		-0.7	8	3944	22 47 50
22 48 20	---	02 29 43	35.8	179.0	-0.1		-0.6	30	3960	22 47 51
22 48 40	R13J0234	02 30 03	36.2	178.3	-0.1		-1.0	7	3960	22 48 40
22 50 30	---	02 31 54	36.2	178.9	-0.1		-0.7	110	4017	22 48 41
22 50 50	R32J0231	02 32 14	35.8	179.8	-0.0		-0.1	7	4017	22 50 50
22 51 20	---	02 32 44	35.8	179.9	-0.0		-0.0	30	4032	22 50 51
22 52 00	J0239-0234	02 33 24	34.4	177.7	-0.1		-1.4	21	4032	22 52 00
22 58 00	=0237-027	02 39 25	34.4	179.5	-0.0		-0.3	360	4218	22 52 01
22 58 40	R32J0231	02 40 05	35.8	182.2	0.1		1.3	21	4218	22 58 40
22 59 10	---	02 40 35	35.8	182.3	0.1		1.4	30	4233	22 58 41

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqH

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 Oct 2024 Day 301 ---										
22 59 35	R32J0231	02 41 00	35.8	182.5	0.1		1.5	19	4233	22 59 35
23 00 00	---	02 41 25	35.8	182.6	0.1		1.6	25	4246	22 59 36
23 00 20	AT2018CQH	02 41 45	36.0	182.1	0.1		1.2	8	4246	23 00 20
23 02 10	---	02 43 36	36.0	182.6	0.1		1.6	110	4303	23 00 21
23 02 30	R32J0231	02 43 56	35.8	183.4	0.2		2.0	8	4303	23 02 30
23 03 00	---	02 44 26	35.8	183.5	0.2		2.1	30	4318	23 02 31
23 03 20	R13J0234	02 44 46	36.1	182.9	0.2		1.7	7	4318	23 03 20
23 05 10	---	02 46 36	36.1	183.5	0.2		2.1	110	4375	23 03 21
23 05 35	R32J0231	02 47 01	35.8	184.3	0.2		2.6	12	4375	23 05 35
23 06 00	---	02 47 26	35.8	184.5	0.2		2.7	25	4388	23 05 36
23 06 20	AT2018CQH	02 47 46	35.9	183.9	0.2		2.4	8	4388	23 06 20
23 08 10	---	02 49 37	35.9	184.5	0.2		2.7	110	4444	23 06 21
23 08 30	R32J0231	02 49 57	35.7	185.2	0.3		3.1	8	4444	23 08 30
23 09 00	---	02 50 27	35.7	185.4	0.3		3.2	30	4460	23 08 31
23 09 20	R13J0234	02 50 47	36.1	184.8	0.3		2.9	8	4460	23 09 20
23 11 10	---	02 52 37	36.1	185.3	0.3		3.2	110	4516	23 09 21
23 11 35	R32J0231	02 53 02	35.7	186.2	0.3		3.7	12	4516	23 11 35
23 12 00	---	02 53 27	35.7	186.3	0.3		3.8	25	4529	23 11 36
23 12 20	AT2018CQH	02 53 47	35.8	185.8	0.3		3.5	8	4529	23 12 20
23 14 10	---	02 55 38	35.8	186.3	0.3		3.8	110	4586	23 12 21
23 14 30	R32J0231	02 55 58	35.6	187.1	0.4		4.2	8	4586	23 14 30
23 15 00	---	02 56 28	35.6	187.2	0.4		4.3	30	4601	23 14 31
23 15 20	R13J0234	02 56 48	36.0	186.6	0.4		4.0	8	4601	23 15 20
23 17 10	---	02 58 38	36.0	187.2	0.4		4.3	110	4658	23 15 21
23 17 35	R32J0231	02 59 03	35.6	188.0	0.4		4.8	12	4658	23 17 35
23 18 00	---	02 59 28	35.6	188.2	0.4		4.9	25	4671	23 17 36
23 18 20	AT2018CQH	02 59 48	35.7	187.6	0.4		4.6	8	4671	23 18 20
23 20 10	---	03 01 39	35.7	188.2	0.4		4.9	110	4728	23 18 21
23 20 30	R32J0231	03 01 59	35.5	188.9	0.5		5.3	8	4728	23 20 30
23 21 00	---	03 02 29	35.5	189.1	0.5		5.4	30	4743	23 20 31

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqH

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 Oct 2024 Day 301 ---										
23 21 20	R13J0234	03 02 49	35.9	188.5	0.5		5.1	8	4743	23 21 20
23 23 10	---	03 04 39	35.8	189.0	0.5		5.4	110	4800	23 21 21
23 23 35	R32J0231	03 05 04	35.4	189.9	0.5		5.9	12	4800	23 23 35
23 24 00	---	03 05 29	35.4	190.0	0.5		6.0	25	4813	23 23 36
23 24 20	AT2018CQH	03 05 49	35.6	189.5	0.5		5.7	8	4813	23 24 20
23 26 10	---	03 07 40	35.6	190.0	0.5		6.0	110	4869	23 24 21
23 26 30	R32J0231	03 08 00	35.4	190.8	0.6		6.4	8	4869	23 26 30
23 27 00	---	03 08 30	35.3	190.9	0.6		6.5	30	4885	23 26 31
23 27 20	R13J0234	03 08 50	35.7	190.3	0.6		6.2	8	4885	23 27 20
23 29 10	---	03 10 40	35.7	190.9	0.6		6.5	110	4942	23 27 21
23 29 35	R32J0231	03 11 05	35.3	191.7	0.6		7.0	12	4942	23 29 35
23 30 00	---	03 11 30	35.3	191.8	0.6		7.1	25	4954	23 29 36
23 30 20	AT2018CQH	03 11 50	35.4	191.3	0.6		6.8	8	4954	23 30 20
23 32 10	---	03 13 41	35.4	191.9	0.6		7.1	110	5011	23 30 21
23 32 30	R32J0231	03 14 01	35.2	192.6	0.7		7.5	8	5011	23 32 30
23 33 00	---	03 14 31	35.2	192.7	0.7		7.6	30	5027	23 32 31
23 33 20	R13J0234	03 14 51	35.6	192.1	0.7		7.3	8	5027	23 33 20
23 35 10	---	03 16 41	35.5	192.7	0.7		7.6	110	5083	23 33 21
23 35 35	R32J0231	03 17 06	35.1	193.5	0.7		8.1	12	5083	23 35 35
23 36 00	---	03 17 31	35.1	193.6	0.7		8.1	25	5096	23 35 36
23 36 20	AT2018CQH	03 17 51	35.3	193.1	0.7		7.8	8	5096	23 36 20
23 38 10	---	03 19 42	35.2	193.7	0.7		8.2	110	5153	23 36 21
23 38 30	R32J0231	03 20 02	35.0	194.4	0.8		8.6	8	5153	23 38 30
23 39 00	---	03 20 32	34.9	194.6	0.8		8.7	30	5168	23 38 31
23 39 20	R13J0234	03 20 52	35.4	194.0	0.8		8.3	8	5168	23 39 20
23 41 10	---	03 22 42	35.3	194.5	0.8		8.7	110	5225	23 39 21
23 41 35	R32J0231	03 23 07	34.8	195.3	0.8		9.1	12	5225	23 41 35
23 42 00	---	03 23 32	34.8	195.5	0.8		9.2	25	5238	23 41 36
23 42 20	AT2018CQH	03 23 52	35.0	195.0	0.8		8.9	8	5238	23 42 20
23 44 10	---	03 25 43	35.0	195.5	0.8		9.2	110	5294	23 42 21

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024 Day 301 ---										
23 44 30	R32J0231	03 26 03	34.7	196.2	0.9		9.7	8	5294	23 44 30
23 45 00	---	03 26 33	34.7	196.4	0.9		9.7	30	5310	23 44 31
23 45 20	R13J0234	03 26 53	35.1	195.8	0.9		9.4	7	5310	23 45 20
23 47 10	---	03 28 43	35.0	196.3	0.9		9.7	110	5367	23 45 21
23 47 35	R32J0231	03 29 08	34.6	197.1	0.9		10.2	12	5367	23 47 35
23 48 00	---	03 29 33	34.6	197.3	0.9		10.3	25	5379	23 47 36
23 48 20	AT2018CQH	03 29 53	34.8	196.8	0.9		10.0	8	5379	23 48 20
23 50 10	---	03 31 44	34.7	197.3	0.9		10.3	110	5436	23 48 21
23 50 30	R32J0231	03 32 04	34.5	198.0	1.0		10.7	8	5436	23 50 30
23 51 00	---	03 32 34	34.4	198.2	1.0		10.8	30	5452	23 50 31
23 51 20	R13J0234	03 32 54	34.9	197.6	1.0		10.5	7	5452	23 51 20
23 53 10	---	03 34 44	34.8	198.2	1.0		10.8	110	5508	23 51 21
23 53 35	R32J0231	03 35 09	34.3	198.9	1.0		11.2	12	5508	23 53 35
23 54 00	---	03 35 34	34.3	199.1	1.0		11.3	25	5521	23 53 36
23 54 20	AT2018CQH	03 35 54	34.5	198.6	1.0		11.0	8	5521	23 54 20
23 56 10	---	03 37 45	34.4	199.1	1.0		11.3	110	5578	23 54 21
23 56 30	R32J0231	03 38 05	34.2	199.8	1.1		11.7	8	5578	23 56 30
23 57 00	---	03 38 35	34.1	199.9	1.1		11.8	30	5593	23 56 31
23 57 20	R13J0234	03 38 55	34.6	199.4	1.1		11.5	7	5593	23 57 20
23 59 10	---	03 40 45	34.5	199.9	1.1		11.8	110	5650	23 57 21
23 59 35	R32J0231	03 41 10	34.0	200.7	1.1		12.3	12	5650	23 59 35
23 59 59	---	03 41 35	34.0	200.8	1.1		12.3	24	5663	23 59 36
--- Mon 28 Oct 2024 Day 302 ---										
00 00 20	AT2018CQH	03 41 55	34.2	200.3	1.1		12.1	8	5663	00 00 20
00 02 10	---	03 43 46	34.1	200.9	1.1		12.4	110	5720	00 00 21
00 02 30	R32J0231	03 44 06	33.8	201.6	1.2		12.8	8	5720	00 02 30
00 03 00	---	03 44 36	33.8	201.7	1.2		12.8	30	5735	00 02 31
00 03 20	R13J0234	03 44 56	34.3	201.2	1.2		12.5	7	5735	00 03 20
00 05 10	---	03 46 46	34.2	201.7	1.2		12.8	110	5792	00 03 21

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqH

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 Oct 2024 Day 302 ---										
00 05 35	R32J0231	03 47 11	33.7	202.5	1.2		13.3	12	5792	00 05 35
00 06 00	---	03 47 36	33.6	202.6	1.2		13.3	25	5805	00 05 36
00 06 20	AT2018CQH	03 47 56	33.9	202.1	1.2		13.1	8	5805	00 06 20
00 08 10	---	03 49 47	33.8	202.7	1.2		13.4	110	5861	00 06 21
00 08 30	R32J0231	03 50 07	33.5	203.3	1.3		13.8	8	5861	00 08 30
00 09 00	---	03 50 37	33.5	203.5	1.3		13.8	30	5877	00 08 31
00 09 20	R13J0234	03 50 57	33.9	202.9	1.3		13.5	7	5877	00 09 20
00 11 10	---	03 52 47	33.8	203.5	1.3		13.8	110	5933	00 09 21
00 11 35	R32J0231	03 53 12	33.3	204.2	1.3		14.3	12	5933	00 11 35
00 12 00	---	03 53 37	33.3	204.3	1.3		14.3	25	5946	00 11 36
00 12 20	AT2018CQH	03 53 57	33.5	203.9	1.3		14.1	8	5946	00 12 20
00 14 10	---	03 55 47	33.4	204.4	1.3		14.4	110	6003	00 12 21
00 14 30	R32J0231	03 56 08	33.1	205.1	1.4		14.7	8	6003	00 14 30
00 15 00	---	03 56 38	33.1	205.2	1.4		14.8	30	6018	00 14 31
00 15 20	R13J0234	03 56 58	33.6	204.7	1.4		14.5	7	6018	00 15 20
00 17 10	---	03 58 48	33.4	205.2	1.4		14.8	110	6075	00 15 21
00 17 35	R32J0231	03 59 13	32.9	206.0	1.4		15.2	12	6075	00 17 35
00 18 00	---	03 59 38	32.9	206.1	1.4		15.3	25	6088	00 17 36
00 18 20	AT2018CQH	03 59 58	33.2	205.6	1.4		15.1	8	6088	00 18 20
00 20 10	---	04 01 48	33.0	206.1	1.4		15.3	110	6145	00 18 21
00 20 30	R32J0231	04 02 09	32.7	206.8	1.5		15.7	8	6145	00 20 30
00 21 00	---	04 02 39	32.7	206.9	1.5		15.8	30	6160	00 20 31
00 21 20	R13J0234	04 02 59	33.2	206.4	1.5		15.5	7	6160	00 21 20
00 23 10	---	04 04 49	33.0	207.0	1.5		15.8	110	6217	00 21 21
00 23 35	R32J0231	04 05 14	32.5	207.7	1.5		16.2	12	6217	00 23 35
00 24 00	---	04 05 39	32.5	207.8	1.5		16.3	25	6230	00 23 36
00 24 20	AT2018CQH	04 05 59	32.8	207.3	1.5		16.0	9	6230	00 24 20
00 26 10	---	04 07 49	32.6	207.9	1.5		16.3	110	6286	00 24 21
00 26 30	R32J0231	04 08 10	32.3	208.5	1.6		16.7	8	6286	00 26 30
00 27 00	---	04 08 40	32.3	208.7	1.6		16.7	30	6302	00 26 31

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024 Day 302 ---										
00 27 20	R13J0234	04 09 00	32.8	208.2	1.6		16.5	7	6302	00 27 20
00 29 10	---	04 10 50	32.6	208.7	1.6		16.8	110	6359	00 27 21
00 29 35	R32J0231	04 11 15	32.1	209.4	1.6		17.1	12	6359	00 29 35
00 30 00	---	04 11 40	32.1	209.5	1.6		17.2	25	6371	00 29 36
00 30 20	AT2018CQH	04 12 00	32.3	209.1	1.6		17.0	9	6371	00 30 20
00 32 10	---	04 13 50	32.2	209.6	1.6		17.2	110	6428	00 30 21
00 32 30	R32J0231	04 14 11	31.9	210.2	1.7		17.6	8	6428	00 32 30
00 33 00	---	04 14 41	31.8	210.4	1.7		17.7	30	6444	00 32 31
00 33 20	R13J0234	04 15 01	32.3	209.9	1.7		17.4	7	6444	00 33 20
00 35 10	---	04 16 51	32.2	210.4	1.7		17.7	110	6500	00 33 21
00 35 35	R32J0231	04 17 16	31.6	211.1	1.7		18.1	12	6500	00 35 35
00 36 00	---	04 17 41	31.6	211.2	1.7		18.1	25	6513	00 35 36
00 36 20	AT2018CQH	04 18 01	31.9	210.8	1.7		17.9	9	6513	00 36 20
00 38 10	---	04 19 51	31.7	211.3	1.7		18.2	110	6570	00 36 21
00 38 30	R32J0231	04 20 11	31.4	211.9	1.8		18.5	8	6570	00 38 30
00 39 00	---	04 20 42	31.4	212.0	1.8		18.6	30	6585	00 38 31
00 39 20	R13J0234	04 21 02	31.9	211.6	1.8		18.3	7	6585	00 39 20
00 41 10	---	04 22 52	31.7	212.1	1.8		18.6	110	6642	00 39 21
00 41 35	R32J0231	04 23 17	31.2	212.7	1.8		19.0	12	6642	00 41 35
00 42 00	---	04 23 42	31.1	212.9	1.8		19.0	25	6655	00 41 36
00 42 20	AT2018CQH	04 24 02	31.4	212.4	1.8		18.8	9	6655	00 42 20
00 44 10	---	04 25 52	31.3	212.9	1.8		19.1	110	6711	00 42 21
00 44 30	R32J0231	04 26 12	30.9	213.6	1.9		19.4	8	6711	00 44 30
00 45 00	---	04 26 43	30.9	213.7	1.9		19.5	30	6727	00 44 31
00 45 20	R13J0234	04 27 03	31.4	213.2	1.9		19.2	7	6727	00 45 20
00 47 10	---	04 28 53	31.2	213.7	1.9		19.5	110	6784	00 45 21
00 47 35	R32J0231	04 29 18	30.7	214.4	1.9		19.8	12	6784	00 47 35
00 48 00	---	04 29 43	30.6	214.5	1.9		19.9	25	6797	00 47 36
00 48 20	AT2018CQH	04 30 03	30.9	214.1	1.9		19.7	9	6797	00 48 20
00 50 10	---	04 31 53	30.8	214.6	1.9		19.9	110	6853	00 48 21

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqH

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 Oct 2024 Day 302 ---									
00 50 30	R32J0231	04 32 13	30.4	215.2	2.0	20.3	8	6853	00 50 30
00 51 00	---	04 32 44	30.4	215.3	2.0	20.3	30	6869	00 50 31
00 51 20	R13J0234	04 33 04	30.9	214.9	2.0	20.1	7	6869	00 51 20
00 53 10	---	04 34 54	30.7	215.4	2.0	20.4	110	6925	00 51 21
00 53 35	R32J0231	04 35 19	30.1	216.0	2.0	20.7	11	6925	00 53 35
00 54 00	---	04 35 44	30.1	216.1	2.0	20.7	25	6938	00 53 36
00 54 20	AT2018CQH	04 36 04	30.4	215.7	2.0	20.5	9	6938	00 54 20
00 56 10	---	04 37 54	30.2	216.2	2.0	20.8	110	6995	00 54 21
00 56 30	R32J0231	04 38 14	29.9	216.8	2.1	21.1	8	6995	00 56 30
00 57 00	---	04 38 45	29.8	217.0	2.1	21.2	30	7010	00 56 31
00 57 20	R13J0234	04 39 05	30.3	216.5	2.1	20.9	7	7010	00 57 20
00 59 10	---	04 40 55	30.2	217.0	2.1	21.2	110	7067	00 57 21
00 59 35	R32J0231	04 41 20	29.6	217.7	2.1	21.5	11	7067	00 59 35
01 00 00	---	04 41 45	29.6	217.8	2.1	21.6	25	7080	00 59 36
01 00 20	AT2018CQH	04 42 05	29.9	217.4	2.1	21.4	9	7080	01 00 20
01 02 10	---	04 43 55	29.7	217.8	2.1	21.6	110	7137	01 00 21
01 02 30	R32J0231	04 44 15	29.3	218.4	2.2	21.9	8	7137	01 02 30
01 03 00	---	04 44 46	29.3	218.6	2.2	22.0	30	7152	01 02 31
01 03 20	R13J0234	04 45 06	29.8	218.1	2.2	21.8	7	7152	01 03 20
01 05 10	---	04 46 56	29.6	218.6	2.2	22.0	110	7209	01 03 21
01 05 35	R32J0231	04 47 21	29.0	219.3	2.2	22.3	11	7209	01 05 35
01 06 00	---	04 47 46	29.0	219.4	2.2	22.4	25	7222	01 05 36
01 06 20	AT2018CQH	04 48 06	29.3	219.0	2.2	22.2	8	7222	01 06 20
01 08 10	---	04 49 56	29.1	219.4	2.2	22.4	110	7278	01 06 21
01 08 30	R32J0231	04 50 16	28.8	220.0	2.3	22.7	8	7278	01 08 30
01 09 00	---	04 50 47	28.7	220.2	2.3	22.8	30	7294	01 08 31
01 09 20	R13J0234	04 51 07	29.2	219.7	2.3	22.6	7	7294	01 09 20
01 11 10	---	04 52 57	29.0	220.2	2.3	22.8	110	7350	01 09 21
01 11 35	R32J0231	04 53 22	28.5	220.8	2.3	23.1	11	7350	01 11 35
01 12 00	---	04 53 47	28.4	220.9	2.3	23.2	25	7363	01 11 36

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024 Day 302 ---										
01 12 20	AT2018CQH	04 54 07	28.7	220.5	2.3		23.0	8	7363	01 12 20
01 14 10	---	04 55 57	28.5	221.0	2.3		23.2	110	7420	01 12 21
01 14 30	R32J0231	04 56 17	28.2	221.6	2.4		23.5	8	7420	01 14 30
01 15 00	---	04 56 47	28.1	221.7	2.4		23.6	30	7435	01 14 31
01 15 20	R13J0234	04 57 08	28.6	221.3	2.4		23.4	7	7435	01 15 20
01 17 10	---	04 58 58	28.5	221.8	2.4		23.6	110	7492	01 15 21
01 17 35	R32J0231	04 59 23	27.9	222.4	2.4		23.9	11	7492	01 17 35
01 18 00	---	04 59 48	27.8	222.5	2.4		23.9	25	7505	01 17 36
01 18 20	AT2018CQH	05 00 08	28.1	222.1	2.4		23.8	8	7505	01 18 20
01 20 10	---	05 01 58	27.9	222.6	2.4		24.0	110	7562	01 18 21
01 20 30	R32J0231	05 02 18	27.6	223.2	2.5		24.3	8	7562	01 20 30
01 21 00	---	05 02 48	27.5	223.3	2.5		24.3	30	7577	01 20 31
01 21 20	R13J0234	05 03 09	28.0	222.9	2.5		24.1	6	7577	01 21 20
01 23 10	---	05 04 59	27.8	223.4	2.5		24.4	110	7634	01 21 21
01 23 35	R32J0231	05 05 24	27.2	223.9	2.5		24.6	11	7634	01 23 35
01 24 00	---	05 05 49	27.2	224.1	2.5		24.7	25	7647	01 23 36
01 24 20	AT2018CQH	05 06 09	27.5	223.7	2.5		24.5	8	7647	01 24 20
01 26 10	---	05 07 59	27.3	224.1	2.5		24.7	110	7703	01 24 21
01 26 30	R32J0231	05 08 19	26.9	224.7	2.6		25.0	8	7703	01 26 30
01 27 00	---	05 08 49	26.9	224.8	2.6		25.0	30	7719	01 26 31
01 27 20	R13J0234	05 09 10	27.4	224.4	2.6		24.9	6	7719	01 27 20
01 29 10	---	05 11 00	27.2	224.9	2.6		25.1	110	7776	01 27 21
01 29 35	R32J0231	05 11 25	26.6	225.5	2.6		25.4	11	7776	01 29 35
01 30 00	---	05 11 50	26.6	225.6	2.6		25.4	25	7788	01 29 36
01 30 20	AT2018CQH	05 12 10	26.9	225.2	2.6		25.2	8	7788	01 30 20
01 32 10	---	05 14 00	26.7	225.7	2.6		25.4	110	7845	01 30 21
01 32 30	R32J0231	05 14 20	26.3	226.2	2.7		25.7	8	7845	01 32 30
01 33 00	---	05 14 50	26.2	226.3	2.7		25.8	30	7861	01 32 31
01 33 20	R13J0234	05 15 11	26.8	226.0	2.7		25.6	6	7861	01 33 20
01 35 10	---	05 17 01	26.6	226.4	2.7		25.8	110	7917	01 33 21

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024 Day 302 ---										
01 35 35	R32J0231	05 17 26	25.9	227.0	2.7		26.0	11	7917	01 35 35
01 36 00	---	05 17 51	25.9	227.1	2.7		26.1	25	7930	01 35 36
01 36 20	AT2018CQH	05 18 11	26.2	226.7	2.7		25.9	8	7930	01 36 20
01 38 10	---	05 20 01	26.0	227.2	2.7		26.1	110	7987	01 36 21
01 38 30	R32J0231	05 20 21	25.6	227.7	2.8		26.4	8	7987	01 38 30
01 39 00	---	05 20 51	25.6	227.8	2.8		26.4	30	8002	01 38 31
01 39 20	R13J0234	05 21 11	26.1	227.5	2.8		26.3	6	8002	01 39 20
01 41 10	---	05 23 02	25.9	227.9	2.8		26.5	110	8059	01 39 21
01 41 35	R32J0231	05 23 27	25.3	228.5	2.8		26.7	11	8059	01 41 35
01 42 00	---	05 23 52	25.2	228.6	2.8		26.8	25	8072	01 41 36
01 42 20	AT2018CQH	05 24 12	25.6	228.2	2.8		26.6	8	8072	01 42 20
01 44 10	---	05 26 02	25.4	228.7	2.8		26.8	110	8129	01 42 21
01 44 30	R32J0231	05 26 22	25.0	229.2	2.9		27.0	8	8129	01 44 30
01 45 00	---	05 26 52	24.9	229.3	2.9		27.1	30	8144	01 44 31
01 45 20	R13J0234	05 27 12	25.4	229.0	2.9		26.9	6	8144	01 45 20
01 47 10	---	05 29 03	25.2	229.4	2.9		27.1	110	8201	01 45 21
01 47 35	R32J0231	05 29 28	24.6	230.0	2.9		27.4	11	8201	01 47 35
01 48 00	---	05 29 53	24.5	230.1	2.9		27.4	25	8214	01 47 36
01 48 20	AT2018CQH	05 30 13	24.9	229.7	2.9		27.3	8	8214	01 48 20
01 50 10	---	05 32 03	24.7	230.1	2.9		27.5	110	8270	01 48 21
01 50 30	R32J0231	05 32 23	24.3	230.7	3.0		27.7	8	8270	01 50 30
01 51 00	---	05 32 53	24.2	230.8	3.0		27.7	30	8286	01 50 31
01 51 20	R13J0234	05 33 13	24.7	230.4	3.0		27.6	6	8286	01 51 20
01 53 10	---	05 35 04	24.5	230.9	3.0		27.8	110	8342	01 51 21
01 53 35	R32J0231	05 35 29	23.9	231.4	3.0		28.0	11	8342	01 53 35
01 54 00	---	05 35 54	23.8	231.5	3.0		28.0	25	8355	01 53 36
01 54 20	AT2018CQH	05 36 14	24.2	231.2	3.0		27.9	8	8355	01 54 20
01 56 10	---	05 38 04	24.0	231.6	3.1		28.1	110	8412	01 54 21
01 56 30	R32J0231	05 38 24	23.6	232.1	3.1		28.3	8	8412	01 56 30
01 57 00	---	05 38 54	23.5	232.2	3.1		28.3	30	8427	01 56 31

Schedule for TORUN (Code Tr)

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VLBI astronomy on the IMBH-TDE AT2018cqh

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 Oct 2024 Day 302 ---

```
01 57 20 R13J0234    05 39 14 24.0 231.9 3.1      28.2    6    8427  01 57 20
01 59 10 ---          05 41 05 23.8 232.3 3.1      28.4   110    8484  01 57 21

01 59 30 R32J0231    05 41 25 23.2 232.8 3.1      28.6    6    8484  01 59 30
02 00 00 ---          05 41 55 23.1 233.0 3.1      28.6   30    8500  01 59 31
```

SETUP FILE INFORMATION:

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

==== Setup file: sess324.C4096

```
Setup group:    7          Station: TORUN          Total bit rate: 4096
Format: VDIF          Bits per sample: 2      Sample rate: 64.000
Number of channels: 32  DBE type: DBBC_DDC      Speedup factor: 1.00
```

Disk used to record data.

1st LO=	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00
	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00
	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00
	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00	4088.00
Net SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF SB =	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	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
	5	13	5	13	6	14	6	14	14
	7	15	7	15	8	16	8	16	16
BBC SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF =	A1	B1	A1	B1	A1	B1	A1	B1	B1
	A1	B1	A1	B1	A1	B1	A1	B1	B1
	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: 7 Setup file default. Used with PCAL = off

LO sum=	4632.00	4632.00	4632.00	4632.00	4696.00	4696.00	4696.00	4696.00
	4760.00	4760.00	4760.00	4760.00	4824.00	4824.00	4824.00	4824.00
	4888.00	4888.00	4888.00	4888.00	4952.00	4952.00	4952.00	4952.00
	5016.00	5016.00	5016.00	5016.00	5080.00	5080.00	5080.00	5080.00
BBC fr=	544.00	544.00	544.00	544.00	608.00	608.00	608.00	608.00
	672.00	672.00	672.00	672.00	736.00	736.00	736.00	736.00
	800.00	800.00	800.00	800.00	864.00	864.00	864.00	864.00
	928.00	928.00	928.00	928.00	992.00	992.00	992.00	992.00
Bandwd=	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	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, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
 barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
* AT2018CQH	02 31 13.995223	* 02 33 46.933800	02 35 04.058205	0.00
	-01 14 36.73242	*-01 01 28.37460	-00 54 47.93089	0.00
* R32J0231	02 29 08.131221	* 02 31 40.977100	02 32 58.056077	0.00

	-01 23 17.66687	*-01 10 03.67610	-01 03 20.48138	0.00
* R13J0234	02 31 35.347225	* 02 34 08.424140	02 35 25.616113	0.00
	-01 02 57.84019	*-00 49 50.44820	-00 43 10.47838	0.00
0237-027	02 37 13.715986	* 02 39 45.472273	02 41 02.019475	0.01
* J0239-0234	-02 47 32.85455	*-02 34 40.91457	-02 28 08.45992	0.01
J0239-02	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 8842 observations.			

gg088tr

GG088

PI: Stefano Giarratana

Address: OAB

Schedule for TORUN (Code Tr)
GG088

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Early: Seconds between end of slew and start. Dwell: On source seconds.
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Start UT	Source	Start / Stop					Early	Disk	TPStart	
Stop UT		LST	EL	AZ	HA	UP	ParA	Dwell	GBytes	SYNC

--- Mon 28 Oct 2024 Day 302 ---										
Next scan frequencies:		4644.00	4644.00	4644.00	4644.00	4644.00	4708.00	4708.00	4708.00	4708.00
		4772.00	4772.00	4772.00	4772.00	4772.00	4836.00	4836.00	4836.00	4836.00
		4900.00	4900.00	4900.00	4900.00	4900.00	4964.00	4964.00	4964.00	4964.00
		5028.00	5028.00	5028.00	5028.00	5028.00	5092.00	5092.00	5092.00	5092.00
Next BBC frequencies:		544.00	544.00	544.00	544.00	544.00	608.00	608.00	608.00	608.00
		672.00	672.00	672.00	672.00	672.00	736.00	736.00	736.00	736.00
		800.00	800.00	800.00	800.00	800.00	864.00	864.00	864.00	864.00
		928.00	928.00	928.00	928.00	928.00	992.00	992.00	992.00	992.00
Next scan bandwidths:		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
		32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
10 28 25	J191142+1952	14 11 43	24.6	89.2	-5.0		-39.7	0	0	10 28 25
10 29 55	---	14 13 14	24.8	89.5	-5.0		-39.7	90	46	10 28 26
10 29 55	GRB221009A	14 13 14	24.5	89.3	-5.0		-39.7	-11	46	No stop
10 34 30	---	14 17 49	25.2	90.2	-4.9		-39.7	264	188	10 29 56
10 34 50	J191142+1952	14 18 09	25.5	90.4	-4.9		-39.7	9	188	10 34 50
10 35 55	---	14 19 15	25.7	90.7	-4.9		-39.7	65	222	10 34 51
10 35 55	GRB221009A	14 19 15	25.4	90.5	-4.9		-39.7	-11	222	No stop
10 40 30	---	14 23 50	26.1	91.4	-4.8		-39.7	264	363	10 35 56
10 40 50	J191142+1952	14 24 10	26.4	91.7	-4.8		-39.7	9	363	10 40 50
10 41 55	---	14 25 16	26.6	91.9	-4.8		-39.7	65	397	10 40 51
10 41 55	J1905+1943	14 25 16	27.4	93.2	-4.7		-39.6	-16	397	No stop
10 43 40	---	14 27 01	27.7	93.6	-4.7		-39.6	89	451	10 41 56
10 44 00	J191142+1952	14 27 21	26.9	92.3	-4.8		-39.7	5	451	10 44 00
10 45 25	---	14 28 46	27.1	92.6	-4.7		-39.6	85	495	10 44 01
10 45 25	GRB221009A	14 28 46	26.9	92.4	-4.8		-39.6	-11	495	No stop
10 50 00	---	14 33 22	27.6	93.3	-4.7		-39.6	264	636	10 45 26
10 50 20	J191142+1952	14 33 42	27.9	93.6	-4.7		-39.6	9	636	10 50 20
10 51 25	---	14 34 47	28.0	93.8	-4.6		-39.6	65	670	10 50 21
10 51 25	GRB221009A	14 34 47	27.8	93.6	-4.7		-39.6	-11	670	No stop
10 54 00	---	14 37 23	28.2	94.1	-4.6		-39.5	144	750	10 51 26

Schedule for TORUN (Code Tr)

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GG088

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

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

---	Mon 28 Oct 2024	Day 302					---				
10 54 20	J191142+1952	14 37 43	28.5	94.4	-4.6		-39.6	9	750	10 54 20	
10 55 25	---	14 38 48	28.6	94.6	-4.6		-39.5	65	783	10 54 21	
10 55 25	J1923+2010	14 38 48	27.2	92.1	-4.8		-39.8	-19	783	No stop	
10 57 00	---	14 40 23	27.4	92.4	-4.7		-39.7	76	832	10 55 26	
10 57 20	J191142+1952	14 40 43	28.9	95.0	-4.5		-39.5	0	832	10 57 20	
10 58 50	---	14 42 13	29.2	95.4	-4.5		-39.5	90	879	10 57 21	
10 59 10	J1925+2106	14 42 33	28.0	91.6	-4.7		-40.1	-2	879	10 59 10	
11 02 10	=1923+210	14 45 34	28.5	92.2	-4.7		-40.0	178	971	10 59 11	
11 02 10	GRB221009A	14 45 34	29.4	95.8	-4.5		-39.4	-22	971	No stop	
11 06 45	---	14 50 10	30.1	96.8	-4.4		-39.3	253	1113	11 02 11	
11 07 05	J191142+1952	14 50 30	30.4	97.1	-4.4		-39.3	9	1113	11 07 05	
11 08 10	---	14 51 35	30.5	97.3	-4.4		-39.3	65	1146	11 07 06	
11 08 10	GRB221009A	14 51 35	30.3	97.1	-4.4		-39.3	-11	1146	No stop	
11 12 45	---	14 56 11	31.0	98.1	-4.3		-39.2	264	1288	11 08 11	
11 13 05	J191142+1952	14 56 31	31.3	98.4	-4.3		-39.2	9	1288	11 13 05	
11 14 10	---	14 57 36	31.4	98.6	-4.3		-39.2	65	1322	11 13 06	
11 14 10	J1905+1943	14 57 36	32.2	100.0	-4.2		-38.9	-16	1322	No stop	
11 15 55	---	14 59 21	32.5	100.4	-4.1		-38.9	89	1376	11 14 11	
11 16 15	J191142+1952	14 59 41	31.8	99.0	-4.2		-39.1	4	1376	11 16 15	
11 17 40	---	15 01 06	32.0	99.3	-4.2		-39.1	85	1420	11 16 16	
11 17 40	GRB221009A	15 01 06	31.7	99.1	-4.2		-39.1	-11	1420	No stop	
11 22 15	---	15 05 42	32.4	100.1	-4.1		-38.9	264	1561	11 17 41	
11 22 35	J191142+1952	15 06 02	32.7	100.4	-4.1		-38.9	9	1561	11 22 35	
11 23 40	---	15 07 07	32.9	100.6	-4.1		-38.9	65	1595	11 22 36	
11 23 40	GRB221009A	15 07 07	32.6	100.4	-4.1		-38.9	-11	1595	No stop	
11 28 15	---	15 11 43	33.3	101.4	-4.0		-38.7	264	1736	11 23 41	
11 28 35	J191142+1952	15 12 03	33.6	101.7	-4.0		-38.7	9	1736	11 28 35	
11 29 40	---	15 13 08	33.7	102.0	-4.0		-38.7	65	1770	11 28 36	
11 29 40	J1923+2010	15 13 08	32.3	99.2	-4.2		-39.2	-20	1770	No stop	
11 31 15	---	15 14 44	32.5	99.6	-4.2		-39.1	75	1819	11 29 41	
11 31 35	J191142+1952	15 15 04	34.0	102.4	-4.0		-38.6	0	1819	11 31 35	
11 33 05	---	15 16 34	34.2	102.7	-3.9		-38.5	90	1865	11 31 36	

Schedule for TORUN (Code Tr)

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GG088

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

--- Mon 28 Oct 2024 Day 302 ---										
11 33 05	GRB221009A	15 16 34	34.0	102.5	-4.0		-38.5	-11	1865	No stop
11 37 40	---	15 21 10	34.6	103.5	-3.9		-38.4	264	2007	11 33 06
11 38 00	J191142+1952	15 21 30	35.0	103.8	-3.9		-38.3	9	2007	11 38 00
11 39 05	---	15 22 35	35.1	104.1	-3.8		-38.3	65	2040	11 38 01
11 39 05	GRB221009A	15 22 35	34.8	103.8	-3.9		-38.3	-11	2040	No stop
11 43 40	---	15 27 11	35.5	104.9	-3.8		-38.1	264	2182	11 39 06
11 44 00	J191142+1952	15 27 31	35.8	105.2	-3.8		-38.0	9	2182	11 44 00
11 45 05	---	15 28 36	36.0	105.4	-3.7		-38.0	65	2216	11 44 01
11 45 05	J191249+1940	15 28 36	35.7	105.3	-3.8		-38.0	-11	2216	No stop
11 46 35	---	15 30 06	35.9	105.7	-3.7		-37.9	79	2262	11 45 06
11 46 35	J191142+1952	15 30 06	36.2	105.8	-3.7		-37.9	-12	2262	No stop
11 48 05	---	15 31 36	36.4	106.1	-3.7		-37.8	78	2308	11 46 36
11 48 05	GRB221009A	15 31 36	36.2	105.9	-3.7		-37.9	-11	2308	No stop
11 52 40	---	15 36 12	36.8	107.0	-3.6		-37.6	264	2450	11 48 06
11 53 00	J191142+1952	15 36 32	37.1	107.3	-3.6		-37.6	9	2450	11 53 00
11 54 05	---	15 37 37	37.3	107.5	-3.6		-37.5	65	2484	11 53 01
11 54 05	GRB221009A	15 37 37	37.0	107.3	-3.6		-37.5	-11	2484	No stop
11 58 40	---	15 42 13	37.7	108.4	-3.5		-37.3	264	2625	11 54 06
11 59 00	J191142+1952	15 42 33	38.0	108.7	-3.5		-37.2	9	2625	11 59 00
12 00 05	---	15 43 38	38.1	109.0	-3.5		-37.2	65	2659	11 59 01
12 00 05	J1905+1943	15 43 38	38.9	110.5	-3.4		-36.7	-16	2659	No stop
12 01 50	---	15 45 24	39.1	111.0	-3.4		-36.6	89	2713	12 00 06
12 02 10	J191142+1952	15 45 44	38.4	109.5	-3.5		-37.0	4	2713	12 02 10
12 03 35	---	15 47 09	38.6	109.8	-3.4		-36.9	85	2757	12 02 11
12 03 35	GRB221009A	15 47 09	38.4	109.5	-3.4		-37.0	-11	2757	No stop
12 08 10	---	15 51 45	39.0	110.6	-3.4		-36.7	264	2898	12 03 36
12 08 30	J191142+1952	15 52 05	39.3	111.0	-3.3		-36.6	9	2898	12 08 30
12 09 35	---	15 53 10	39.5	111.3	-3.3		-36.5	65	2932	12 08 31
12 09 35	GRB221009A	15 53 10	39.2	111.0	-3.3		-36.6	-11	2932	No stop
12 14 10	---	15 57 46	39.9	112.1	-3.3		-36.2	264	3074	12 09 36

Schedule for TORUN (Code Tr)

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GG088

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

--- Mon 28 Oct 2024 Day 302 ---										
12 14 30	J191142+1952	15 58 06	40.2	112.5	-3.2		-36.2	9	3074	12 14 30
12 15 35	---	15 59 11	40.3	112.7	-3.2		-36.1	65	3107	12 14 31
12 15 35	J1923+2010	15 59 11	39.0	109.7	-3.4		-37.1	-20	3107	No stop
12 17 10	---	16 00 46	39.2	110.1	-3.4		-37.0	75	3156	12 15 36
12 17 30	J191142+1952	16 01 06	40.6	113.2	-3.2		-35.9	-1	3156	12 17 30
12 19 00	---	16 02 37	40.8	113.6	-3.2		-35.8	89	3202	12 17 31
12 19 00	GRB221009A	16 02 37	40.5	113.3	-3.2		-35.9	-11	3202	No stop
12 23 35	---	16 07 12	41.2	114.5	-3.1		-35.5	264	3344	12 19 01
12 23 55	J191142+1952	16 07 32	41.5	114.8	-3.1		-35.4	9	3344	12 23 55
12 25 00	---	16 08 38	41.6	115.1	-3.1		-35.3	65	3378	12 23 56
12 25 00	GRB221009A	16 08 38	41.4	114.9	-3.1		-35.4	-11	3378	No stop
12 29 35	---	16 13 13	42.0	116.0	-3.0		-35.0	264	3519	12 25 01
12 29 55	J191142+1952	16 13 33	42.3	116.4	-3.0		-34.9	9	3519	12 29 55
12 31 00	---	16 14 39	42.4	116.7	-3.0		-34.8	65	3553	12 29 56
12 31 00	J191249+1940	16 14 39	42.1	116.5	-3.0		-34.8	-11	3553	No stop
12 32 30	---	16 16 09	42.3	116.9	-3.0		-34.7	79	3599	12 31 01
12 32 30	J191142+1952	16 16 09	42.6	117.1	-2.9		-34.7	-12	3599	No stop
12 34 00	---	16 17 39	42.8	117.5	-2.9		-34.5	78	3646	12 32 31
12 34 00	GRB221009A	16 17 39	42.6	117.2	-2.9		-34.6	-11	3646	No stop
12 38 35	---	16 22 15	43.2	118.4	-2.9		-34.2	264	3787	12 34 01
12 38 55	J191142+1952	16 22 35	43.5	118.8	-2.8		-34.0	9	3787	12 38 55
12 40 00	---	16 23 40	43.6	119.1	-2.8		-33.9	65	3821	12 38 56
12 40 00	GRB221009A	16 23 40	43.4	118.8	-2.8		-34.0	-11	3821	No stop
12 44 35	---	16 28 16	44.0	120.0	-2.8		-33.5	264	3962	12 40 01
12 44 55	J191142+1952	16 28 36	44.3	120.4	-2.7		-33.4	9	3962	12 44 55
12 46 00	---	16 29 41	44.4	120.7	-2.7		-33.3	65	3996	12 44 56
12 46 00	J1905+1943	16 29 41	45.1	122.5	-2.6		-32.5	-17	3996	No stop
12 47 45	---	16 31 26	45.3	123.0	-2.6		-32.3	88	4050	12 46 01
12 48 05	J191142+1952	16 31 46	44.7	121.3	-2.7		-33.1	3	4050	12 48 05
12 49 30	---	16 33 12	44.9	121.7	-2.7		-32.9	85	4094	12 48 06

Schedule for TORUN (Code Tr)

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GG088

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

--- Mon 28 Oct 2024 Day 302 ---										
12 49 30	GRB221009A	16 33 12	44.6	121.4	-2.7		-33.0	-11	4094	No stop
12 54 05	---	16 37 47	45.2	122.7	-2.6		-32.5	264	4236	12 49 31
12 54 25	J191142+1952	16 38 07	45.5	123.1	-2.6		-32.4	9	4236	12 54 25
12 55 30	---	16 39 13	45.6	123.4	-2.6		-32.2	65	4269	12 54 26
12 55 30	GRB221009A	16 39 13	45.4	123.1	-2.6		-32.3	-11	4269	No stop
13 00 05	---	16 43 48	46.0	124.4	-2.5		-31.8	264	4411	12 55 31
13 00 25	J191142+1952	16 44 08	46.2	124.8	-2.5		-31.6	9	4411	13 00 25
13 01 30	---	16 45 14	46.4	125.1	-2.5		-31.5	65	4444	13 00 26
13 01 30	J1923+2010	16 45 14	45.2	121.6	-2.7		-33.0	-22	4444	No stop
13 03 05	---	16 46 49	45.4	122.0	-2.6		-32.9	73	4493	13 01 31
13 03 25	J191142+1952	16 47 09	46.6	125.7	-2.4		-31.3	-2	4493	13 03 25
13 04 55	---	16 48 39	46.8	126.1	-2.4		-31.1	88	4540	13 03 26
13 04 55	GRB221009A	16 48 39	46.6	125.8	-2.4		-31.2	-11	4540	No stop
13 09 30	---	16 53 15	47.1	127.1	-2.3		-30.6	264	4681	13 04 56
13 09 50	J191142+1952	16 53 35	47.4	127.6	-2.3		-30.4	9	4681	13 09 50
13 10 55	---	16 54 40	47.5	127.9	-2.3		-30.3	65	4715	13 09 51
13 10 55	GRB221009A	16 54 40	47.3	127.6	-2.3		-30.4	-11	4715	No stop
13 15 30	---	16 59 16	47.8	129.0	-2.2		-29.8	264	4856	13 10 56
13 15 50	J191142+1952	16 59 36	48.1	129.4	-2.2		-29.6	9	4856	13 15 50
13 16 55	---	17 00 41	48.2	129.7	-2.2		-29.4	65	4890	13 15 51
13 16 55	J191249+1940	17 00 41	47.9	129.5	-2.2		-29.5	-11	4890	No stop
13 18 25	---	17 02 11	48.1	130.0	-2.2		-29.3	79	4936	13 16 56
13 18 25	J191142+1952	17 02 11	48.4	130.2	-2.2		-29.2	-11	4936	No stop
13 19 55	---	17 03 42	48.6	130.7	-2.2		-29.0	79	4983	13 18 26
13 19 55	GRB221009A	17 03 42	48.3	130.3	-2.2		-29.1	-10	4983	No stop
13 24 30	---	17 08 17	48.8	131.7	-2.1		-28.4	265	5124	13 19 56
13 24 50	J191142+1952	17 08 37	49.1	132.2	-2.1		-28.2	9	5124	13 24 50
13 25 55	---	17 09 43	49.2	132.6	-2.1		-28.1	65	5158	13 24 51
13 25 55	GRB221009A	17 09 43	49.0	132.2	-2.1		-28.2	-10	5158	No stop
13 30 30	---	17 14 18	49.5	133.7	-2.0		-27.5	265	5300	13 25 56

Schedule for TORUN (Code Tr)

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GG088

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

--- Mon 28 Oct 2024 Day 302 ---										
13 30 50	J191142+1952	17 14 38	49.8	134.1	-2.0		-27.3	9	5300	13 30 50
13 31 55	---	17 15 44	49.9	134.5	-2.0		-27.1	65	5333	13 30 51
13 31 55	J1905+1943	17 15 44	50.4	136.6	-1.8		-26.0	-18	5333	No stop
13 33 40	---	17 17 29	50.6	137.2	-1.8		-25.7	87	5387	13 31 56
13 34 00	J191142+1952	17 17 49	50.1	135.2	-1.9		-26.8	2	5387	13 34 00
13 35 25	---	17 19 14	50.3	135.6	-1.9		-26.5	85	5431	13 34 01
13 35 25	GRB221009A	17 19 14	50.0	135.3	-1.9		-26.7	-10	5431	No stop
13 40 00	---	17 23 50	50.5	136.8	-1.8		-25.9	265	5573	13 35 26
13 40 20	J191142+1952	17 24 10	50.8	137.3	-1.8		-25.7	9	5573	13 40 20
13 41 25	---	17 25 15	50.9	137.6	-1.8		-25.5	65	5606	13 40 21
13 41 25	GRB221009A	17 25 15	50.7	137.2	-1.8		-25.7	-10	5606	No stop
13 46 00	---	17 29 51	51.1	138.8	-1.7		-24.9	265	5748	13 41 26
13 46 20	J191142+1952	17 30 11	51.4	139.3	-1.7		-24.6	9	5748	13 46 20
13 47 25	---	17 31 16	51.5	139.7	-1.7		-24.4	65	5781	13 46 21
13 47 25	J1923+2010	17 31 16	50.6	135.6	-1.9		-26.6	-23	5781	No stop
13 49 00	---	17 32 51	50.8	136.1	-1.9		-26.3	72	5830	13 47 26
13 49 20	J191142+1952	17 33 11	51.7	140.3	-1.7		-24.1	-3	5830	13 49 20
13 50 50	---	17 34 42	51.8	140.9	-1.6		-23.8	87	5877	13 49 21
13 50 50	GRB221009A	17 34 42	51.6	140.5	-1.7		-24.0	-10	5877	No stop
13 55 25	---	17 39 17	52.0	142.1	-1.6		-23.1	265	6018	13 50 51
13 55 45	J191142+1952	17 39 37	52.3	142.6	-1.6		-22.8	9	6018	13 55 45
13 56 50	---	17 40 43	52.4	143.0	-1.5		-22.6	65	6052	13 55 46
13 56 50	GRB221009A	17 40 43	52.2	142.6	-1.6		-22.8	-11	6052	No stop
14 01 25	---	17 45 18	52.6	144.2	-1.5		-21.9	264	6194	13 56 51
14 01 45	J191142+1952	17 45 38	52.8	144.7	-1.5		-21.6	9	6194	14 01 45
14 02 50	---	17 46 44	52.9	145.1	-1.4		-21.4	65	6227	14 01 46
14 02 50	J191249+1940	17 46 44	52.6	144.9	-1.5		-21.5	-11	6227	No stop
14 04 20	---	17 48 14	52.7	145.4	-1.4		-21.2	79	6273	14 02 51
14 04 20	J191142+1952	17 48 14	53.0	145.7	-1.4		-21.1	-11	6273	No stop
14 05 50	---	17 49 44	53.2	146.2	-1.4		-20.8	79	6320	14 04 21

Schedule for TORUN (Code Tr)

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GG088

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

--- Mon 28 Oct 2024 Day 302 ---										
14 18 50	J191142+1952	18 02 46	54.2	151.1	-1.2		-18.0	772	6320	14 18 50
14 20 50	---	18 04 47	54.3	151.9	-1.1		-17.5	120	6382	14 18 51
14 20 50	GRB221009A	18 04 47	54.1	151.4	-1.2		-17.8	-11	6382	No stop
14 25 25	---	18 09 22	54.5	153.2	-1.1		-16.7	264	6523	14 20 51
14 25 45	J191142+1952	18 09 42	54.7	153.8	-1.1		-16.4	9	6523	14 25 45
14 26 50	---	18 10 48	54.7	154.2	-1.0		-16.1	65	6557	14 25 46
14 26 50	GRB221009A	18 10 48	54.5	153.7	-1.1		-16.4	-11	6557	No stop
14 31 25	---	18 15 23	54.8	155.5	-1.0		-15.3	264	6699	14 26 51
14 31 45	J191142+1952	18 15 43	55.0	156.2	-1.0		-15.0	8	6699	14 31 45
14 32 50	---	18 16 49	55.1	156.6	-0.9		-14.7	65	6732	14 31 46
14 32 50	J1905+1943	18 16 49	55.3	159.1	-0.8		-13.2	-19	6732	No stop
14 34 35	---	18 18 34	55.4	159.8	-0.8		-12.7	86	6786	14 32 51
14 34 55	J191142+1952	18 18 54	55.2	157.4	-0.9		-14.2	1	6786	14 34 55
14 36 20	---	18 20 19	55.3	158.0	-0.9		-13.8	85	6830	14 34 56
14 36 20	GRB221009A	18 20 19	55.1	157.5	-0.9		-14.1	-11	6830	No stop
14 40 55	---	18 24 55	55.4	159.3	-0.8		-13.0	264	6972	14 36 21
14 41 15	J191142+1952	18 25 15	55.6	160.0	-0.8		-12.6	8	6972	14 41 15
14 42 20	---	18 26 20	55.6	160.4	-0.8		-12.4	65	7005	14 41 16
14 42 20	GRB221009A	18 26 20	55.5	159.9	-0.8		-12.7	-11	7005	No stop
14 46 55	---	18 30 56	55.7	161.8	-0.7		-11.5	264	7147	14 42 21
14 47 15	J191142+1952	18 31 16	55.9	162.4	-0.7		-11.1	8	7147	14 47 15
14 48 20	---	18 32 21	55.9	162.9	-0.7		-10.8	65	7180	14 47 16
14 48 20	J1923+2010	18 32 21	55.6	158.1	-0.9		-13.8	-24	7180	No stop
14 49 55	---	18 33 56	55.7	158.7	-0.8		-13.4	71	7229	14 48 21
14 50 15	J191142+1952	18 34 16	56.0	163.7	-0.6		-10.3	-5	7229	14 50 15
14 51 45	---	18 35 47	56.1	164.3	-0.6		-10.0	85	7276	14 50 16
14 51 45	GRB221009A	18 35 47	55.9	163.8	-0.6		-10.3	-11	7276	No stop
14 56 20	---	18 40 22	56.1	165.7	-0.6		-9.1	264	7417	14 51 46
14 56 40	J191142+1952	18 40 42	56.2	166.3	-0.5		-8.7	8	7417	14 56 40
14 57 45	---	18 41 48	56.3	166.8	-0.5		-8.4	65	7451	14 56 41

Schedule for TORUN (Code Tr)

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GG088

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

--- Mon 28 Oct 2024 Day 302 ---										
14 57 45	GRB221009A	18 41 48	56.1	166.3	-0.5		-8.7	-11	7451	No stop
15 02 20	---	18 46 23	56.3	168.2	-0.5		-7.5	264	7593	14 57 46
15 02 40	J191142+1952	18 46 43	56.4	168.9	-0.4		-7.1	8	7593	15 02 40
15 03 45	---	18 47 49	56.5	169.3	-0.4		-6.8	65	7626	15 02 41
15 03 45	J191249+1940	18 47 49	56.2	168.9	-0.4		-7.0	-11	7626	No stop
15 05 15	---	18 49 19	56.3	169.5	-0.4		-6.6	79	7672	15 03 46
15 05 15	J191142+1952	18 49 19	56.5	170.0	-0.4		-6.4	-11	7672	No stop
15 06 45	---	18 50 49	56.5	170.6	-0.4		-6.0	79	7719	15 05 16
15 06 45	GRB221009A	18 50 49	56.4	170.1	-0.4		-6.3	-11	7719	No stop
15 11 20	---	18 55 25	56.5	172.0	-0.3		-5.1	264	7861	15 06 46
15 11 40	J191142+1952	18 55 45	56.7	172.7	-0.3		-4.7	8	7861	15 11 40
15 12 45	---	18 56 50	56.7	173.2	-0.3		-4.4	65	7894	15 11 41
15 12 45	GRB221009A	18 56 50	56.6	172.6	-0.3		-4.7	-11	7894	No stop
15 17 20	---	19 01 26	56.6	174.6	-0.2		-3.5	264	8036	15 12 46
15 17 40	J191142+1952	19 01 46	56.7	175.3	-0.2		-3.0	8	8036	15 17 40
15 18 45	---	19 02 51	56.8	175.7	-0.2		-2.7	65	8069	15 17 41
15 18 45	J1905+1943	19 02 51	56.7	178.4	-0.1		-1.0	-20	8069	No stop
15 20 30	---	19 04 36	56.7	179.1	-0.0		-0.6	85	8123	15 18 46
15 20 50	J191142+1952	19 04 56	56.8	176.6	-0.1		-2.1	1	8123	15 20 50
15 22 15	---	19 06 22	56.8	177.2	-0.1		-1.8	85	8167	15 20 51
15 22 15	GRB221009A	19 06 22	56.7	176.7	-0.1		-2.1	-11	8167	No stop
15 26 50	---	19 10 57	56.7	178.6	-0.1		-0.9	264	8309	15 22 16
15 27 10	J191142+1952	19 11 17	56.8	179.4	-0.0		-0.4	8	8309	15 27 10
15 28 15	---	19 12 23	56.8	179.8	-0.0		-0.1	65	8342	15 27 11
15 28 15	GRB221009A	19 12 23	56.7	179.2	-0.0		-0.5	-12	8342	No stop
15 32 50	---	19 16 58	56.7	181.2	0.0		0.8	263	8484	15 28 16
15 33 10	J191142+1952	19 17 18	56.8	181.9	0.1		1.2	8	8484	15 33 10
15 34 15	---	19 18 24	56.8	182.4	0.1		1.5	65	8518	15 33 11
15 34 15	J1923+2010	19 18 24	57.1	177.5	-0.1		-1.6	-25	8518	No stop
15 35 50	---	19 19 59	57.1	178.1	-0.1		-1.2	70	8566	15 34 16

Schedule for TORUN (Code Tr)

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GG088

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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

--- Mon 28 Oct 2024 Day 302 ---										
15 36 10	J191142+1952	19 20 19	56.8	183.2	0.1		2.1	-5	8566	15 36 10
15 37 40	---	19 21 49	56.8	183.9	0.2		2.5	85	8613	15 36 11
15 37 40	GRB221009A	19 21 49	56.7	183.3	0.1		2.1	-12	8613	No stop
15 42 15	---	19 26 25	56.6	185.3	0.2		3.4	263	8755	15 37 41
15 42 35	J191142+1952	19 26 45	56.7	186.0	0.2		3.8	8	8755	15 42 35
15 43 40	---	19 27 50	56.7	186.5	0.3		4.1	65	8788	15 42 36
15 43 40	GRB221009A	19 27 50	56.6	185.9	0.2		3.7	-12	8788	No stop
15 48 15	---	19 32 26	56.5	187.8	0.3		5.0	263	8930	15 43 41
15 48 35	J191142+1952	19 32 46	56.6	188.6	0.3		5.5	8	8930	15 48 35
15 49 40	---	19 33 51	56.6	189.0	0.4		5.7	65	8963	15 48 36
15 49 40	J191249+1940	19 33 51	56.4	188.5	0.3		5.4	-11	8963	No stop
15 51 10	---	19 35 21	56.4	189.1	0.4		5.8	79	9010	15 49 41
15 51 10	J191142+1952	19 35 21	56.5	189.7	0.4		6.1	-12	9010	No stop
15 52 40	---	19 36 52	56.5	190.3	0.4		6.6	78	9056	15 51 11
15 52 40	GRB221009A	19 36 52	56.4	189.7	0.4		6.2	-12	9056	No stop
15 57 15	---	19 41 27	56.3	191.6	0.5		7.4	263	9198	15 52 41
15 57 35	J191142+1952	19 41 47	56.3	192.4	0.5		7.9	8	9198	15 57 35
15 58 40	---	19 42 53	56.3	192.8	0.5		8.1	65	9231	15 57 36
15 58 40	GRB221009A	19 42 53	56.3	192.2	0.5		7.8	-12	9231	No stop
16 03 15	---	19 47 28	56.1	194.2	0.6		9.0	263	9373	15 58 41
16 03 35	J191142+1952	19 47 48	56.1	194.9	0.6		9.4	8	9373	16 03 35
16 04 40	---	19 48 54	56.1	195.3	0.6		9.7	65	9406	16 03 36
16 04 40	J1905+1943	19 48 54	55.7	197.8	0.7		11.2	-19	9406	No stop
16 06 25	---	19 50 39	55.6	198.5	0.7		11.7	86	9460	16 04 41
16 06 45	J191142+1952	19 50 59	56.0	196.2	0.6		10.3	1	9460	16 06 45
16 08 10	---	19 52 24	55.9	196.8	0.7		10.6	85	9504	16 06 46
16 08 10	GRB221009A	19 52 24	55.9	196.2	0.6		10.3	-12	9504	No stop
16 12 45	---	19 57 00	55.7	198.1	0.7		11.4	263	9646	16 08 11
16 13 05	J191142+1952	19 57 20	55.7	198.8	0.7		11.9	8	9646	16 13 05
16 14 10	---	19 58 25	55.7	199.3	0.8		12.2	65	9679	16 13 06

Schedule for TORUN (Code Tr)

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GG088

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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 Oct 2024 Day 302 ---										
16 14 10	GRB221009A	19 58 25	55.6	198.7	0.7		11.8	-12	9679	No stop
16 18 45	---	20 03 01	55.4	200.5	0.8		12.9	263	9821	16 14 11
16 19 05	J191142+1952	20 03 21	55.4	201.3	0.8		13.4	8	9821	16 19 05
16 20 10	---	20 04 26	55.3	201.7	0.9		13.7	65	9855	16 19 06
16 20 10	J1923+2010	20 04 26	56.2	197.1	0.7		10.9	-24	9855	No stop
16 21 45	---	20 06 01	56.2	197.8	0.7		11.3	71	9904	16 20 11
16 22 05	J191142+1952	20 06 22	55.2	202.5	0.9		14.1	-4	9904	16 22 05
16 23 35	---	20 07 52	55.2	203.1	0.9		14.5	86	9950	16 22 06
16 23 35	GRB221009A	20 07 52	55.1	202.5	0.9		14.1	-12	9950	No stop
16 28 10	---	20 12 28	54.9	204.3	1.0		15.2	263	10092	16 23 36
16 28 30	J191142+1952	20 12 48	54.9	205.0	1.0		15.7	8	10092	16 28 30
16 29 35	---	20 13 53	54.8	205.4	1.0		15.9	65	10125	16 28 31
16 29 35	GRB221009A	20 13 53	54.8	204.9	1.0		15.6	-12	10125	No stop
16 34 10	---	20 18 28	54.5	206.7	1.1		16.6	263	10267	16 29 36
16 34 30	J191142+1952	20 18 49	54.5	207.4	1.1		17.1	8	10267	16 34 30
16 35 35	---	20 19 54	54.4	207.8	1.1		17.3	65	10300	16 34 31
16 35 35	J191249+1940	20 19 54	54.3	207.2	1.1		17.0	-11	10300	No stop
16 37 05	---	20 21 24	54.2	207.8	1.1		17.3	79	10347	16 35 36
16 37 05	J191142+1952	20 21 24	54.3	208.4	1.1		17.7	-12	10347	No stop
16 38 35	---	20 22 54	54.2	208.9	1.2		18.0	78	10393	16 37 06
16 38 35	GRB221009A	20 22 54	54.2	208.4	1.1		17.7	-11	10393	No stop
16 43 10	---	20 27 30	53.8	210.1	1.2		18.7	264	10535	16 38 36
16 43 30	J191142+1952	20 27 50	53.8	210.8	1.3		19.1	8	10535	16 43 30
16 44 35	---	20 28 55	53.7	211.2	1.3		19.3	65	10568	16 43 31
16 44 35	GRB221009A	20 28 55	53.7	210.6	1.2		19.0	-11	10568	No stop
16 49 10	---	20 33 31	53.4	212.4	1.3		20.0	264	10710	16 44 36
16 49 30	J191142+1952	20 33 51	53.3	213.0	1.4		20.4	8	10710	16 49 30
16 50 35	---	20 34 56	53.2	213.4	1.4		20.6	65	10744	16 49 31
16 51 15	J1925+2106	20 35 36	55.5	209.0	1.1		18.2	16	10744	16 51 15
16 54 35	=1923+210	20 38 57	55.2	210.3	1.2		19.0	200	10847	16 51 16

Schedule for TORUN (Code Tr)

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GG088

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 Oct 2024 Day 302 ---										
17 03 35	J191142+1952	20 47 58	52.1	218.1	1.6		23.2	515	10847	17 03 35
17 05 35	---	20 49 59	51.9	218.8	1.6		23.6	120	10908	17 03 36
17 05 35	GRB221009A	20 49 59	51.9	218.3	1.6		23.3	-11	10908	No stop
17 10 10	---	20 54 34	51.5	219.9	1.7		24.2	264	11050	17 05 36
17 10 30	J191142+1952	20 54 54	51.4	220.5	1.7		24.5	8	11050	17 10 30
17 11 35	---	20 56 00	51.3	220.9	1.7		24.7	65	11084	17 10 31
17 11 35	GRB221009A	20 56 00	51.4	220.4	1.7		24.4	-11	11084	No stop
17 16 10	---	21 00 35	50.9	221.9	1.8		25.3	264	11225	17 11 36
17 16 30	J191142+1952	21 00 55	50.8	222.6	1.8		25.6	8	11225	17 16 30
17 17 35	---	21 02 01	50.7	222.9	1.8		25.8	65	11259	17 16 31
17 17 35	J1905+1943	21 02 01	49.9	224.8	1.9		26.7	-18	11259	No stop
17 19 20	---	21 03 46	49.8	225.4	2.0		27.0	87	11313	17 17 36
17 19 40	J191142+1952	21 04 06	50.5	223.6	1.9		26.1	3	11313	17 19 40
17 21 05	---	21 05 31	50.4	224.1	1.9		26.4	85	11357	17 19 41
17 21 05	GRB221009A	21 05 31	50.4	223.6	1.9		26.1	-11	11357	No stop
17 25 40	---	21 10 07	49.9	225.1	1.9		26.9	264	11498	17 21 06
17 26 00	J191142+1952	21 10 27	49.8	225.7	2.0		27.2	8	11498	17 26 00
17 27 05	---	21 11 32	49.7	226.1	2.0		27.4	65	11532	17 26 01
17 27 05	GRB221009A	21 11 32	49.8	225.6	2.0		27.1	-11	11532	No stop
17 31 40	---	21 16 08	49.3	227.0	2.0		27.8	264	11674	17 27 06
17 32 00	J191142+1952	21 16 28	49.2	227.6	2.1		28.2	8	11674	17 32 00
17 33 05	---	21 17 33	49.0	228.0	2.1		28.3	65	11707	17 32 01
17 33 05	J1923+2010	21 17 33	50.6	224.5	1.9		26.7	-21	11707	No stop
17 34 40	---	21 19 08	50.4	225.0	1.9		26.9	74	11756	17 33 06
17 35 00	J191142+1952	21 19 28	48.8	228.6	2.1		28.6	-2	11756	17 35 00
17 36 30	---	21 20 59	48.7	229.1	2.1		28.8	88	11802	17 35 01
17 36 30	GRB221009A	21 20 59	48.7	228.6	2.1		28.6	-11	11802	No stop
17 41 05	---	21 25 34	48.2	230.0	2.2		29.3	264	11944	17 36 31
17 41 25	J191142+1952	21 25 55	48.1	230.6	2.2		29.6	9	11944	17 41 25
17 42 30	---	21 27 00	48.0	230.9	2.2		29.7	65	11978	17 41 26

Schedule for TORUN (Code Tr)

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GG088

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 Oct 2024 Day 302 ---										
17 42 30	GRB221009A	21 27 00	48.0	230.4	2.2		29.5	-11	11978	No stop
17 47 05	---	21 31 35	47.5	231.8	2.3		30.1	264	12119	17 42 31
17 47 25	J191142+1952	21 31 56	47.4	232.4	2.3		30.4	9	12119	17 47 25
17 48 30	---	21 33 01	47.3	232.7	2.3		30.5	65	12153	17 47 26
17 48 30	J191249+1940	21 33 01	47.2	232.3	2.3		30.3	-11	12153	No stop
17 50 00	---	21 34 31	47.0	232.7	2.3		30.5	79	12199	17 48 31
17 50 00	J191142+1952	21 34 31	47.1	233.2	2.4		30.7	-11	12199	No stop
17 51 30	---	21 36 01	46.9	233.6	2.4		30.9	79	12246	17 50 01
17 51 30	GRB221009A	21 36 01	47.0	233.2	2.4		30.7	-11	12246	No stop
17 56 05	---	21 40 37	46.4	234.5	2.4		31.3	264	12387	17 51 31
17 56 25	J191142+1952	21 40 57	46.3	235.1	2.5		31.6	9	12387	17 56 25
17 57 30	---	21 42 02	46.2	235.4	2.5		31.7	65	12421	17 56 26
17 57 30	GRB221009A	21 42 02	46.3	234.9	2.5		31.5	-11	12421	No stop
18 02 05	---	21 46 38	45.7	236.2	2.5		32.1	264	12562	17 57 31
18 02 25	J191142+1952	21 46 58	45.6	236.8	2.6		32.3	9	12562	18 02 25
18 03 30	---	21 48 03	45.4	237.1	2.6		32.4	65	12596	18 02 26
18 03 30	J1905+1943	21 48 03	44.5	238.7	2.7		33.0	-16	12596	No stop
18 05 15	---	21 49 48	44.3	239.2	2.7		33.2	89	12650	18 03 31
18 05 35	J191142+1952	21 50 09	45.2	237.7	2.6		32.7	4	12650	18 05 35
18 07 00	---	21 51 34	45.0	238.1	2.6		32.8	85	12694	18 05 36
18 07 00	GRB221009A	21 51 34	45.1	237.6	2.6		32.6	-11	12694	No stop
18 11 35	---	21 56 09	44.5	238.9	2.7		33.1	264	12836	18 07 01
18 11 55	J191142+1952	21 56 30	44.3	239.5	2.7		33.4	9	12836	18 11 55
18 13 00	---	21 57 35	44.2	239.7	2.7		33.5	65	12869	18 11 56
18 13 00	GRB221009A	21 57 35	44.3	239.3	2.7		33.3	-11	12869	No stop
18 17 35	---	22 02 10	43.7	240.6	2.8		33.8	264	13011	18 13 01
18 17 55	J191142+1952	22 02 31	43.6	241.1	2.8		34.0	9	13011	18 17 55
18 19 00	---	22 03 36	43.4	241.4	2.8		34.1	65	13044	18 17 56
18 19 00	J1923+2010	22 03 36	45.2	238.5	2.7		33.1	-20	13044	No stop
18 20 35	---	22 05 11	45.0	238.9	2.7		33.2	75	13093	18 19 01

Schedule for TORUN (Code Tr)

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GG088

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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

--- Mon 28 Oct 2024 Day 302 ---										
18 20 55	J191142+1952	22 05 31	43.2	241.9	2.9		34.3	0	13093	18 20 55
18 22 25	---	22 07 01	43.0	242.3	2.9		34.4	90	13140	18 20 56
18 22 25	GRB221009A	22 07 01	43.1	241.9	2.9		34.3	-11	13140	No stop
18 27 00	---	22 11 37	42.4	243.1	3.0		34.7	264	13281	18 22 26
18 27 20	J191142+1952	22 11 57	42.3	243.6	3.0		34.9	9	13281	18 27 20
18 28 25	---	22 13 02	42.2	243.9	3.0		35.0	65	13315	18 27 21
18 28 25	GRB221009A	22 13 02	42.3	243.4	3.0		34.8	-11	13315	No stop
18 33 00	---	22 17 38	41.6	244.6	3.1		35.2	264	13456	18 28 26
18 33 20	J191142+1952	22 17 58	41.5	245.1	3.1		35.4	9	13456	18 33 20
18 34 25	---	22 19 03	41.3	245.4	3.1		35.5	65	13490	18 33 21
18 34 25	J191249+1940	22 19 03	41.3	245.0	3.1		35.3	-11	13490	No stop
18 35 55	---	22 20 33	41.1	245.4	3.1		35.4	79	13536	18 34 26
18 35 55	J191142+1952	22 20 33	41.1	245.8	3.1		35.6	-11	13536	No stop
18 37 25	---	22 22 04	40.9	246.2	3.2		35.8	79	13583	18 35 56
18 37 25	GRB221009A	22 22 04	41.0	245.8	3.1		35.6	-11	13583	No stop
18 42 00	---	22 26 39	40.4	246.9	3.2		36.0	264	13724	18 37 26
18 42 20	J191142+1952	22 27 00	40.2	247.4	3.2		36.1	9	13724	18 42 20
18 43 25	---	22 28 05	40.1	247.7	3.3		36.2	65	13758	18 42 21
18 43 25	GRB221009A	22 28 05	40.2	247.3	3.2		36.1	-11	13758	No stop
18 48 00	---	22 32 40	39.6	248.4	3.3		36.4	264	13900	18 43 26
18 48 20	J191142+1952	22 33 01	39.4	248.9	3.3		36.6	9	13900	18 48 20
18 49 25	---	22 34 06	39.3	249.2	3.4		36.6	65	13933	18 48 21
18 50 05	J1925+2106	22 34 46	42.2	246.8	3.1		36.3	15	13933	18 50 05
18 53 25	=1923+210	22 38 06	41.7	247.6	3.2		36.5	200	14036	18 50 06
18 53 45	J191142+1952	22 38 26	38.6	250.2	3.4		36.9	-5	14036	18 53 45
18 55 15	---	22 39 57	38.4	250.6	3.5		37.0	85	14083	18 53 46
18 55 15	GRB221009A	22 39 57	38.5	250.2	3.4		36.9	-10	14083	No stop
18 59 50	---	22 44 32	37.9	251.3	3.5		37.2	265	14224	18 55 16
19 00 05	J1925+2106	22 44 47	40.8	249.3	3.3		37.0	-10	14224	19 00 05
19 01 05	=1923+210	22 45 48	40.6	249.5	3.3		37.1	50	14255	19 00 06

Schedule for TORUN (Code Tr)

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GG088

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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

--- Mon 28 Oct 2024 Day 302 ---										
19 01 20	J191142+1952	22 46 03	37.6	252.0	3.6		37.4	-10	14255	19 01 20
19 02 30	---	22 47 13	37.4	252.3	3.6		37.5	60	14291	19 01 21
19 02 30	GRB221009A	22 47 13	37.5	251.9	3.6		37.4	-10	14291	No stop
19 07 05	---	22 51 49	36.9	253.0	3.6		37.6	265	14433	19 02 31
19 07 25	J191142+1952	22 52 09	36.7	253.4	3.7		37.7	9	14433	19 07 25
19 08 30	---	22 53 14	36.5	253.7	3.7		37.8	65	14466	19 07 26
19 08 30	J1905+1943	22 53 14	35.5	255.0	3.8		38.0	-17	14466	No stop
19 10 15	---	22 54 59	35.3	255.4	3.8		38.1	88	14521	19 08 31
19 10 15	J191142+1952	22 54 59	36.3	254.1	3.7		37.9	-16	14521	No stop
19 11 40	---	22 56 24	36.1	254.4	3.7		38.0	69	14564	19 10 16
19 11 55	J1925+2106	22 56 39	39.1	252.1	3.5		37.8	-10	14564	19 11 55
19 12 55	=1923+210	22 57 40	38.9	252.4	3.5		37.9	50	14595	19 11 56
19 13 05	GRB221009A	22 57 50	36.0	254.4	3.7		37.9	-15	14595	19 13 05
19 17 30	---	23 02 15	35.3	255.4	3.8		38.1	250	14732	19 13 06
19 17 50	J191142+1952	23 02 35	35.2	255.8	3.8		38.3	9	14732	19 17 50
19 19 15	---	23 04 01	35.0	256.2	3.9		38.3	85	14776	19 17 51
19 19 15	GRB221009A	23 04 01	35.1	255.8	3.8		38.2	-10	14776	No stop
19 23 50	---	23 08 36	34.4	256.8	3.9		38.4	265	14917	19 19 16
19 24 05	J1925+2106	23 08 51	37.3	255.0	3.7		38.5	-10	14917	19 24 05
19 25 05	=1923+210	23 09 52	37.2	255.2	3.7		38.5	50	14948	19 24 06
19 25 20	J191142+1952	23 10 07	34.1	257.5	4.0		38.6	-11	14948	19 25 20
19 26 45	---	23 11 32	33.9	257.8	4.0		38.6	74	14992	19 25 21
19 26 45	J1923+2010	23 11 32	35.8	255.5	3.8		38.3	-21	14992	No stop
19 28 20	---	23 13 07	35.6	255.9	3.8		38.4	74	15041	19 26 46
19 28 40	J191142+1952	23 13 27	33.6	258.3	4.0		38.7	-1	15041	19 28 40
19 30 10	---	23 14 57	33.4	258.6	4.0		38.8	89	15087	19 28 41
19 30 10	GRB221009A	23 14 57	33.5	258.2	4.0		38.7	-10	15087	No stop
19 34 45	---	23 19 33	32.8	259.2	4.1		38.8	265	15229	19 30 11
19 35 00	J1925+2106	23 19 48	35.7	257.5	3.9		38.9	-10	15229	19 35 00
19 36 00	=1923+210	23 20 48	35.6	257.7	3.9		39.0	50	15260	19 35 01

Schedule for TORUN (Code Tr)

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GG088

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

--- Mon 28 Oct 2024 Day 302 ---										
19 36 10	J191142+1952	23 20 58	32.5	259.9	4.1		39.0	-16	15260	19 36 10
19 37 25	---	23 22 14	32.3	260.2	4.2		39.0	59	15299	19 36 11
19 37 25	GRB221009A	23 22 14	32.4	259.8	4.1		38.9	-10	15299	No stop
19 42 00	---	23 26 49	31.7	260.8	4.2		39.1	265	15440	19 37 26
19 42 20	J191142+1952	23 27 09	31.6	261.2	4.2		39.1	9	15440	19 42 20
19 43 25	---	23 28 15	31.4	261.5	4.3		39.2	65	15474	19 42 21
19 43 40	J1925+2106	23 28 30	34.4	259.4	4.0		39.3	-10	15474	19 43 40
19 44 40	=1923+210	23 29 30	34.3	259.6	4.0		39.3	50	15505	19 43 41
19 45 00	J191249+1940	23 29 50	31.2	261.4	4.3		39.1	-6	15505	19 45 00
19 46 30	---	23 31 20	31.0	261.7	4.3		39.1	84	15551	19 45 01
19 46 50	J191142+1952	23 31 40	30.9	262.2	4.3		39.3	9	15551	19 46 50
19 48 00	---	23 32 50	30.7	262.4	4.3		39.3	70	15587	19 46 51
19 48 00	GRB221009A	23 32 50	30.8	262.1	4.3		39.2	-10	15587	No stop
19 52 35	---	23 37 26	30.2	263.1	4.4		39.3	265	15729	19 48 01
19 52 50	J1925+2106	23 37 41	33.1	261.4	4.2		39.5	-10	15729	19 52 50
19 53 50	=1923+210	23 38 41	32.9	261.6	4.2		39.6	50	15760	19 52 51
19 54 05	J191142+1952	23 38 56	29.8	263.7	4.4		39.4	-11	15760	19 54 05
19 55 15	---	23 40 07	29.6	264.0	4.5		39.4	59	15796	19 54 06
19 55 15	GRB221009A	23 40 07	29.8	263.6	4.4		39.4	-10	15796	No stop
19 59 50	---	23 44 42	29.1	264.6	4.5		39.5	265	15938	19 55 16
20 00 10	J191142+1952	23 45 02	28.9	265.0	4.5		39.5	10	15938	20 00 10
20 01 15	---	23 46 08	28.7	265.2	4.6		39.5	65	15971	20 00 11
20 01 15	J1905+1943	23 46 08	27.7	266.4	4.7		39.6	-17	15971	No stop
20 03 00	---	23 47 53	27.4	266.7	4.7		39.6	88	16025	20 01 16
20 03 00	J191142+1952	23 47 53	28.5	265.6	4.6		39.6	-17	16025	No stop
20 04 25	---	23 49 18	28.3	265.9	4.6		39.6	68	16069	20 03 01
20 04 40	J1925+2106	23 49 33	31.3	263.9	4.4		39.8	-10	16069	20 04 40
20 05 40	=1923+210	23 50 33	31.2	264.1	4.4		39.8	50	16100	20 04 41
20 05 50	GRB221009A	23 50 43	28.2	265.8	4.6		39.5	-15	16100	20 05 50
20 10 15	---	23 55 09	27.5	266.7	4.7		39.6	250	16236	20 05 51

Schedule for TORUN (Code Tr)
GG088

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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

--- Mon 28 Oct 2024 Day 302 ---										
20 10 35	J191142+1952	23 55 29	27.3	267.1	4.7		39.6	10	16236	20 10 35
20 12 00	---	23 56 54	27.1	267.4	4.7		39.6	85	16280	20 10 36
20 12 00	GRB221009A	23 56 54	27.3	267.1	4.7		39.6	-10	16280	No stop
20 16 35	---	00 01 30	26.6	268.0	4.8		39.6	265	16422	20 12 01
20 16 50	J1925+2106	00 01 45	29.5	266.4	4.6		40.0	-10	16422	20 16 50
20 17 50	=1923+210	00 02 45	29.3	266.6	4.6		40.0	50	16453	20 16 51
20 18 05	J191142+1952	00 03 00	26.2	268.7	4.8		39.7	-11	16453	20 18 05
20 19 30	---	00 04 26	26.0	269.0	4.9		39.7	74	16497	20 18 06
20 19 30	J1923+2010	00 04 26	28.0	266.8	4.7		39.7	-21	16497	No stop
20 21 05	---	00 06 01	27.7	267.2	4.7		39.7	74	16546	20 19 31
20 21 25	J191142+1952	00 06 21	25.7	269.3	4.9		39.7	-1	16546	20 21 25
20 22 55	---	00 07 51	25.5	269.6	4.9		39.7	89	16592	20 21 26
20 22 55	GRB221009A	00 07 51	25.6	269.3	4.9		39.7	-10	16592	No stop
20 27 30	---	00 12 27	24.9	270.2	5.0		39.7	265	16734	20 22 56
20 27 45	J1925+2106	00 12 42	27.9	268.6	4.8		40.1	-10	16734	20 27 45
20 28 45	=1923+210	00 13 42	27.7	268.8	4.8		40.1	50	16765	20 27 46
20 28 55	J191142+1952	00 13 52	24.6	270.8	5.0		39.7	-16	16765	20 28 55
20 30 10	---	00 15 07	24.4	271.1	5.0		39.7	59	16803	20 28 56
20 30 10	GRB221009A	00 15 07	24.5	270.8	5.0		39.7	-10	16803	No stop
20 34 45	---	00 19 43	23.8	271.7	5.1		39.6	265	16945	20 30 11
20 35 05	J191142+1952	00 20 03	23.6	272.1	5.1		39.7	10	16945	20 35 05
20 36 10	---	00 21 08	23.5	272.3	5.1		39.7	65	16978	20 35 06
20 36 25	J1925+2106	00 21 23	26.5	270.4	4.9		40.1	-10	16978	20 36 25
20 37 25	=1923+210	00 22 23	26.4	270.6	4.9		40.1	50	17009	20 36 26
20 37 45	J191249+1940	00 22 44	23.3	272.2	5.1		39.6	-6	17009	20 37 45
20 39 15	---	00 24 14	23.0	272.5	5.2		39.6	84	17056	20 37 46
20 39 35	J191142+1952	00 24 34	23.0	273.0	5.2		39.6	10	17056	20 39 35
20 40 45	---	00 25 44	22.8	273.2	5.2		39.6	70	17092	20 39 36
20 49 25	J1925+2106	00 34 25	24.6	273.0	5.1		40.0	495	17092	20 49 25
20 50 45	=1923+210	00 35 46	24.4	273.2	5.1		40.0	80	17133	20 49 26

Schedule for TORUN (Code Tr)
GG088

Page 18

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 Oct 2024 Day 302 ---										
20 50 45	GRB221009A	00 35 46	21.4	274.8	5.4		39.5	-25	17133	No stop
20 55 20	---	00 40 21	20.7	275.7	5.4		39.4	250	17275	20 50 46
20 55 35	J1925+2106	00 40 36	23.7	274.2	5.2		40.0	-10	17275	20 55 35
20 56 35	=1923+210	00 41 37	23.5	274.4	5.2		39.9	50	17306	20 55 36
20 56 50	J191142+1952	00 41 52	20.4	276.3	5.5		39.4	-11	17306	20 56 50
20 58 00	---	00 43 02	20.2	276.6	5.5		39.4	59	17342	20 56 51
20 58 00	GRB221009A	00 43 02	20.3	276.2	5.5		39.4	-10	17342	No stop
21 02 35	---	00 47 38	19.7	277.1	5.6		39.3	265	17483	20 58 01
21 02 55	J191142+1952	00 47 58	19.5	277.5	5.6		39.3	10	17483	21 02 55
21 04 00	---	00 49 03	19.3	277.7	5.6		39.3	65	17517	21 02 56
21 04 00	J1905+1943	00 49 03	18.3	278.8	5.7		39.1	-17	17517	No stop
21 05 45	---	00 50 48	18.0	279.1	5.7		39.0	88	17571	21 04 01
21 05 45	J191142+1952	00 50 48	19.0	278.1	5.6		39.2	-17	17571	No stop
21 07 10	---	00 52 13	18.8	278.3	5.7		39.2	68	17615	21 05 46
21 07 25	J1925+2106	00 52 28	21.9	276.5	5.4		39.8	-10	17615	21 07 25
21 08 25	=1923+210	00 53 29	21.7	276.7	5.4		39.8	50	17646	21 07 26
21 08 35	GRB221009A	00 53 39	18.8	278.3	5.7		39.2	-15	17646	21 08 35
21 13 00	---	00 58 04	18.1	279.1	5.7		39.1	250	17782	21 08 36
21 13 20	J191142+1952	00 58 24	17.9	279.5	5.8		39.0	10	17782	21 13 20
21 14 45	---	00 59 50	17.7	279.8	5.8		39.0	85	17826	21 13 21
21 14 45	GRB221009A	00 59 50	17.8	279.5	5.8		39.0	-10	17826	No stop
21 19 20	---	01 04 25	17.2	280.4	5.8		38.9	265	17968	21 14 46
21 19 35	J1925+2106	01 04 40	20.1	278.8	5.6		39.5	-10	17968	21 19 35
21 20 35	=1923+210	01 05 41	19.9	279.0	5.6		39.5	50	17999	21 19 36
21 20 50	J191142+1952	01 05 56	16.8	281.0	5.9		38.8	-11	17999	21 20 50
21 22 15	---	01 07 21	16.6	281.2	5.9		38.8	74	18042	21 20 51
21 22 15	J1923+2010	01 07 21	18.5	279.2	5.7		39.2	-21	18042	No stop
21 23 50	---	01 08 56	18.3	279.5	5.7		39.1	74	18091	21 22 16
21 24 10	J191142+1952	01 09 16	16.3	281.6	5.9		38.7	-1	18091	21 24 10
21 25 40	---	01 10 46	16.1	281.9	6.0		38.7	89	18138	21 24 11

Schedule for TORUN (Code Tr)
GG088

Page 19

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 Oct 2024 Day 302 ---										
21 25 40	GRB221009A	01 10 46	16.2	281.6	5.9		38.7	-10	18138	No stop
21 30 15	---	01 15 22	15.5	282.4	6.0		38.6	265	18279	21 25 41
21 30 30	J1925+2106	01 15 37	18.5	280.9	5.8		39.2	-10	18279	21 30 30
21 31 30	=1923+210	01 16 37	18.3	281.1	5.8		39.2	50	18310	21 30 31
21 31 40	J191142+1952	01 16 47	15.2	283.0	6.1		38.5	-16	18310	21 31 40
21 32 55	---	01 18 03	15.0	283.3	6.1		38.4	59	18349	21 31 41
21 32 55	GRB221009A	01 18 03	15.2	283.0	6.1		38.5	-10	18349	No stop
21 37 30	---	01 22 38	14.5	283.8	6.1		38.3	265	18491	21 32 56
21 37 50	J191142+1952	01 22 58	14.3	284.2	6.2		38.3	10	18491	21 37 50
21 38 55	---	01 24 04	14.2	284.4	6.2		38.2	65	18524	21 37 51
21 39 10	J1925+2106	01 24 19	17.2	282.6	6.0		38.9	-10	18524	21 39 10
21 40 10	=1923+210	01 25 19	17.0	282.8	6.0		38.9	50	18555	21 39 11
21 40 30	J191249+1940	01 25 39	13.9	284.4	6.2		38.2	-6	18555	21 40 30
21 42 00	---	01 27 09	13.7	284.7	6.2		38.1	84	18602	21 40 31
21 42 20	J191142+1952	01 27 29	13.7	285.1	6.2		38.1	10	18602	21 42 20
21 43 30	---	01 28 39	13.5	285.3	6.3		38.0	70	18638	21 42 21
21 43 30	GRB221009A	01 28 39	13.6	285.0	6.2		38.1	-10	18638	No stop
21 48 05	---	01 33 15	12.9	285.9	6.3		37.9	265	18779	21 43 31
21 48 20	J1925+2106	01 33 30	15.8	284.3	6.1		38.6	-10	18779	21 48 20
21 49 20	=1923+210	01 34 30	15.7	284.5	6.1		38.6	50	18810	21 48 21
21 49 35	J191142+1952	01 34 45	12.6	286.5	6.4		37.8	-11	18810	21 49 35
21 50 45	---	01 35 55	12.4	286.7	6.4		37.7	59	18846	21 49 36
21 50 45	GRB221009A	01 35 55	12.6	286.4	6.4		37.8	-10	18846	No stop
21 55 20	---	01 40 31	11.9	287.2	6.4		37.6	265	18988	21 50 46
21 55 40	J191142+1952	01 40 51	11.7	287.6	6.5		37.5	10	18988	21 55 40
21 56 45	---	01 41 56	11.6	287.8	6.5		37.4	65	19021	21 55 41
21 56 45	J1905+1943	01 41 56	10.6	288.9	6.6		37.1	-17	19021	No stop
21 58 30	---	01 43 42	10.3	289.2	6.6		37.0	88	19076	21 56 46
21 58 30	J191142+1952	01 43 42	11.3	288.2	6.5		37.4	-16	19076	No stop
21 59 55	---	01 45 07	11.1	288.4	6.5		37.3	69	19119	21 58 31

Schedule for TORUN (Code Tr)
GG088

Page 20

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 Oct 2024 Day 302 ---

22 00 10	J1925+2106	01 45 22	14.1	286.6	6.3	38.1	-10	19119	22 00 10
22 01 10	=1923+210	01 46 22	14.0	286.7	6.3	38.1	50	19150	22 00 11
22 01 20	GRB221009A	01 46 32	11.0	288.4	6.5	37.3	-15	19150	22 01 20
22 05 45	---	01 50 58	10.4	289.2	6.6	37.1	250	19287	22 01 21
22 06 05	J191142+1952	01 51 18	10.2	289.6	6.6	37.0	10	19287	22 06 05
22 07 30	---	01 52 43	10.0	289.9	6.7	36.9	85	19331	22 06 06
22 07 30	GRB221009A	01 52 43	10.2	289.6	6.6	37.0	-10	19331	No stop
22 12 05	---	01 57 19	9.5	290.4	6.7	36.7	265	19472	22 07 31
22 12 20	J1925+2106	01 57 34	12.4	288.9	6.5	37.5	-10	19472	22 12 20
22 13 20	=1923+210	01 58 34	12.2	289.0	6.5	37.5	50	19503	22 12 21
22 15 00	J1923+2010	02 00 14	10.9	289.3	6.6	37.2	83	19503	22 15 00
22 16 35	---	02 01 50	10.6	289.6	6.6	37.1	95	19552	22 15 01
22 23 15	J1925+2106	02 08 31	10.8	290.9	6.7	37.0	383	19552	22 23 15
22 24 15	=1923+210	02 09 31	10.7	291.1	6.7	36.9	60	19583	22 23 16
22 31 55	J1925+2106	02 17 12	9.6	292.6	6.8	36.5	453	19583	22 31 55
22 32 55	=1923+210	02 18 12	9.5	292.8	6.9	36.4	60	19614	22 31 56

SETUP FILE INFORMATION:

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

==== Setup file: sess324.C4096glob

Setup group: 19	Station: TORUN	Total bit rate: 4096
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 32	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00
	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00
	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00
	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00	4100.00
Net SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF SB =	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	LCP
	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
	5	13	5	13	6	14	6	14	14
	7	15	7	15	8	16	8	16	16
BBC SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF =	A1	B1	A1	B1	A1	B1	A1	B1	B1
	A1	B1	A1	B1	A1	B1	A1	B1	B1
	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:	12	Setup file default.	Used with PCAL = off
LO sum=	4644.00	4644.00	4644.00
	4772.00	4772.00	4772.00
	4900.00	4900.00	4900.00
	5028.00	5028.00	5028.00
BBC fr=	544.00	544.00	544.00
	672.00	672.00	672.00
	800.00	800.00	800.00
	928.00	928.00	928.00
Bandwd=	32.00	32.00	32.00
	32.00	32.00	32.00
	32.00	32.00	32.00
	32.00	32.00	32.00

Matching frequency sets: 12

Track assignments are:

track1= 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
barrel=roll_off

POSITIONS OF SOURCES USED IN RECORDING SCANS

Source	Source position (RA/Dec) (B1950)	(J2000)	(Date)	Error (mas)
* GRB221009A	19 10 52.500472	* 19 13 03.500400	19 14 07.827738	0.00
	19 41 14.67648	* 19 46 24.22800	19 49 04.53286	0.00
* J1905+1943	19 03 25.637172	* 19 05 36.472100	19 06 40.683873	0.00

	19 38 29.62717	* 19 43 08.04500	19 45 32.77332	0.00
* J1923+2010	19 21 02.282278	* 19 23 13.140228	19 24 17.442454	0.00
	20 04 48.26646	* 20 10 39.75566	20 13 41.12286	0.00
* J191142+1952	19 09 31.670884	* 19 11 42.509697	19 12 46.750398	0.00
	19 46 56.00561	* 19 51 59.94423	19 54 37.46441	0.00
* J191249+1940	19 10 38.054579	* 19 12 49.180000	19 13 53.569060	0.00
	19 34 51.84540	* 19 40 00.40000	19 42 40.18189	0.00
* 3C286	13 28 49.657692	* 13 31 08.287984	13 32 15.756080	0.00
	30 45 58.64021	* 30 30 32.95885	30 22 55.28743	0.00
0834-201	08 34 24.601692	* 08 36 39.215252	08 37 45.716071	0.01
* J0836-2016	-20 06 30.40853	*-20 16 59.50422	-20 21 53.67310	0.01
J0836-20	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 16505 observations.			
* 3C279	12 53 35.831310	* 12 56 11.166577	12 57 26.904041	0.34
J1256-0547	-05 31 07.99627	*-05 47 21.52513	-05 55 17.62310	0.56
1253-055	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1256-05	GSFC 2016a X/S astro solution, 13160 observations.			
1923+210	19 23 49.792392	* 19 25 59.605356	19 27 03.397150	0.01
* J1925+2106	21 00 23.30493	* 21 06 26.16201	21 09 33.43088	0.00
J1925+21	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
	GSFC 2016a X/S astro solution, 38704 observations.			

em165ftr

E-EVN: EM165F

PI: Marcote, Shu

Address: JIVE

Schedule for TORUN (Code Tr)
e-EVN: EM165F

Page 2

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.

Table with columns: Start UT, Stop UT, Source, LST, EL, AZ, HA, UP, ParA, Early Dwell, Disk GBytes, TPStart SYNC. Includes scan frequencies and bandwidths for 3C345 source.

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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 12 Nov 2024	Day 317					---				
11 37 00	3C345	16 19 38	76.0	160.4	-0.4		-15.2	112	2056	11 37 00	
11 50 00	---	16 32 40	76.5	170.8	-0.2		-7.2	780	2257	11 37 01	
11 52 00	3C345	16 34 40	76.6	172.4	-0.2		-5.9	111	2257	11 52 00	
12 05 00	---	16 47 43	76.7	183.3	0.1		2.5	780	2458	11 52 01	
12 07 00	3C345	16 49 43	76.6	184.9	0.1		3.8	111	2458	12 07 00	
12 20 00	---	17 02 45	76.3	195.5	0.3		12.1	780	2659	12 07 01	
12 22 00	3C345	17 04 45	76.2	197.1	0.3		13.3	112	2659	12 22 00	
12 35 00	---	17 17 48	75.5	206.9	0.6		20.7	780	2860	12 22 01	
12 37 00	J2139+1423	17 19 48	26.4	101.3	-4.3		-37.5	-105	2860	12 37 00	
12 50 00	=2136+141	17 32 50	28.3	104.1	-4.1		-37.0	675	3061	12 37 01	

----- EM165F -----											
13 00 00	J1751+0939	17 42 52	46.5	176.5	-0.2		-2.1	446	3061	13 00 00	
13 04 00	=1749+096	17 46 52	46.5	177.9	-0.1		-1.3	240	3123	13 00 01	
13 05 40	J1825-0737	17 48 33	28.7	169.1	-0.6		-6.6	19	3123	13 05 40	
13 07 10	=1822-076	17 50 03	28.8	169.6	-0.6		-6.3	90	3146	13 05 41	
13 07 10	HESSJ1832	17 50 03	26.9	167.8	-0.7		-7.4	-21	3146	No stop	
13 09 10	---	17 52 03	26.9	168.4	-0.7		-7.1	99	3177	13 07 11	
13 09 40	J1835-1115	17 52 33	25.0	168.0	-0.7		-7.3	9	3177	13 09 40	
13 10 40	=1832-113	17 53 33	25.0	168.3	-0.7		-7.1	60	3192	13 09 41	
13 10 40	HESSJ1832	17 53 33	27.0	168.8	-0.7		-6.8	-21	3192	No stop	
13 12 40	---	17 55 34	27.0	169.3	-0.6		-6.5	99	3223	13 10 41	
13 13 10	J1825-0737	17 56 04	28.9	171.2	-0.5		-5.3	9	3223	13 13 10	
13 14 10	=1822-076	17 57 04	29.0	171.5	-0.5		-5.1	60	3239	13 13 11	
13 14 10	HESSJ1832	17 57 04	27.1	169.7	-0.6		-6.2	-21	3239	No stop	
13 16 10	---	17 59 04	27.1	170.3	-0.6		-5.9	99	3269	13 14 11	
13 16 40	J1835-1115	17 59 34	25.2	169.9	-0.6		-6.1	9	3269	13 16 40	
13 17 40	=1832-113	18 00 35	25.2	170.2	-0.6		-6.0	60	3285	13 16 41	
13 17 40	HESSJ1832	18 00 35	27.1	170.7	-0.6		-5.6	-21	3285	No stop	
13 19 40	---	18 02 35	27.2	171.3	-0.5		-5.3	99	3316	13 17 41	
13 20 10	J1825-0737	18 03 05	29.1	173.2	-0.4		-4.1	9	3316	13 20 10	
13 21 10	=1822-076	18 04 05	29.1	173.5	-0.4		-3.9	60	3331	13 20 11	

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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
--- Tue 12 Nov 2024 Day 317 ---										
13 21 10	HESSJ1832	18 04 05	27.2	171.7	-0.5		-5.1	-21	3331	No stop
13 23 10	---	18 06 05	27.3	172.2	-0.5		-4.7	99	3362	13 21 11
13 23 40	J1835-1115	18 06 36	25.3	171.8	-0.5		-5.0	9	3362	13 23 40
13 24 40	=1832-113	18 07 36	25.4	172.1	-0.5		-4.8	60	3378	13 23 41
13 24 40	HESSJ1832	18 07 36	27.3	172.6	-0.4		-4.5	-21	3378	No stop
13 26 40	---	18 09 36	27.3	173.2	-0.4		-4.1	99	3409	13 24 41
13 27 10	J1825-0737	18 10 06	29.2	175.2	-0.3		-2.9	9	3409	13 27 10
13 28 10	=1822-076	18 11 06	29.2	175.5	-0.3		-2.7	60	3424	13 27 11
13 28 10	HESSJ1832	18 11 06	27.4	173.6	-0.4		-3.9	-21	3424	No stop
13 30 10	---	18 13 07	27.4	174.2	-0.3		-3.5	99	3455	13 28 11
13 30 40	J1835-1115	18 13 37	25.5	173.7	-0.4		-3.8	9	3455	13 30 40
13 31 40	=1832-113	18 14 37	25.5	174.0	-0.4		-3.7	60	3470	13 30 41
13 31 40	HESSJ1832	18 14 37	27.4	174.6	-0.3		-3.3	-21	3470	No stop
13 33 40	---	18 16 37	27.4	175.1	-0.3		-3.0	99	3501	13 31 41
13 34 10	J1825-0737	18 17 07	29.3	177.2	-0.2		-1.7	9	3501	13 34 10
13 35 10	=1822-076	18 18 07	29.3	177.5	-0.1		-1.5	60	3517	13 34 11
13 35 10	HESSJ1832	18 18 07	27.5	175.6	-0.3		-2.7	-20	3517	No stop
13 37 10	---	18 20 08	27.5	176.1	-0.2		-2.4	100	3548	13 35 11
13 37 40	J1835-1115	18 20 38	25.6	175.6	-0.3		-2.7	9	3548	13 37 40
13 38 40	=1832-113	18 21 38	25.6	175.9	-0.3		-2.5	60	3563	13 37 41
13 38 40	HESSJ1832	18 21 38	27.5	176.5	-0.2		-2.1	-21	3563	No stop
13 40 40	---	18 23 38	27.5	177.1	-0.2		-1.8	99	3594	13 38 41
13 41 10	J1825-0737	18 24 08	29.3	179.2	-0.0		-0.5	10	3594	13 41 10
13 42 10	=1822-076	18 25 09	29.3	179.5	-0.0		-0.3	60	3610	13 41 11
13 42 10	HESSJ1832	18 25 09	27.5	177.5	-0.1		-1.5	-20	3610	No stop
13 44 10	---	18 27 09	27.5	178.1	-0.1		-1.2	100	3640	13 42 11
13 44 40	J1835-1115	18 27 39	25.6	177.5	-0.2		-1.5	9	3640	13 44 40
13 45 40	=1832-113	18 28 39	25.6	177.8	-0.1		-1.3	60	3656	13 44 41
13 45 40	HESSJ1832	18 28 39	27.5	178.5	-0.1		-0.9	-21	3656	No stop
13 47 40	---	18 30 39	27.6	179.0	-0.1		-0.6	99	3687	13 45 41

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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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 12 Nov 2024 Day 317 ---										
13 48 10	J1825-0737	18 31 10	29.3	181.2	0.1		0.7	10	3687	13 48 10
13 49 10	=1822-076	18 32 10	29.3	181.5	0.1		0.9	60	3702	13 48 11
13 49 10	HESSJ1832	18 32 10	27.6	179.5	-0.0		-0.3	-20	3702	No stop
13 51 10	---	18 34 10	27.6	180.0	0.0		0.0	100	3733	13 49 11
13 51 40	J1835-1115	18 34 40	25.7	179.4	-0.0		-0.3	9	3733	13 51 40
13 52 40	=1832-113	18 35 40	25.7	179.7	-0.0		-0.2	60	3749	13 51 41
13 52 40	HESSJ1832	18 35 40	27.6	180.4	0.0		0.3	-21	3749	No stop
13 54 40	---	18 37 41	27.6	181.0	0.1		0.6	99	3780	13 52 41
13 55 10	J1825-0737	18 38 11	29.2	183.2	0.2		1.9	10	3780	13 55 10
13 56 10	=1822-076	18 39 11	29.2	183.5	0.2		2.1	60	3795	13 55 11
13 56 10	HESSJ1832	18 39 11	27.5	181.4	0.1		0.9	-20	3795	No stop
13 58 10	---	18 41 11	27.5	182.0	0.1		1.2	100	3826	13 56 11
13 58 40	J1835-1115	18 41 41	25.6	181.4	0.1		0.8	9	3826	13 58 40
13 59 40	=1832-113	18 42 41	25.6	181.6	0.1		1.0	60	3841	13 58 41
13 59 40	HESSJ1832	18 42 41	27.5	182.4	0.1		1.5	-21	3841	No stop
14 01 40	---	18 44 42	27.5	182.9	0.2		1.8	99	3872	13 59 41
14 02 10	J1825-0737	18 45 12	29.2	185.2	0.3		3.1	10	3872	14 02 10
14 03 10	=1822-076	18 46 12	29.2	185.5	0.3		3.3	60	3888	14 02 11
14 03 10	HESSJ1832	18 46 12	27.5	183.4	0.2		2.0	-20	3888	No stop
14 05 10	---	18 48 12	27.5	183.9	0.2		2.4	100	3919	14 03 11
14 05 40	J1835-1115	18 48 42	25.6	183.3	0.2		2.0	9	3919	14 05 40
14 06 40	=1832-113	18 49 43	25.6	183.5	0.2		2.2	60	3934	14 05 41
14 06 40	HESSJ1832	18 49 43	27.5	184.3	0.3		2.6	-21	3934	No stop
14 08 40	---	18 51 43	27.4	184.9	0.3		3.0	99	3965	14 06 41
14 09 10	J1825-0737	18 52 13	29.1	187.2	0.4		4.3	10	3965	14 09 10
14 10 10	=1822-076	18 53 13	29.0	187.4	0.4		4.5	60	3981	14 09 11
14 10 10	HESSJ1832	18 53 13	27.4	185.3	0.3		3.2	-20	3981	No stop
14 12 10	---	18 55 13	27.4	185.9	0.4		3.6	100	4011	14 10 11
14 12 40	J1835-1115	18 55 44	25.5	185.2	0.3		3.2	9	4011	14 12 40
14 13 40	=1832-113	18 56 44	25.5	185.4	0.3		3.3	60	4027	14 12 41

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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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 12 Nov 2024 Day 317 ---										
14 13 40	HESSJ1832	18 56 44	27.4	186.3	0.4		3.8	-21	4027	No stop
14 15 40	---	18 58 44	27.3	186.8	0.4		4.2	99	4058	14 13 41
14 16 10	J1825-0737	18 59 14	28.9	189.1	0.5		5.5	11	4058	14 16 10
14 17 10	=1822-076	19 00 14	28.9	189.4	0.6		5.7	60	4073	14 16 11
14 17 10	HESSJ1832	19 00 14	27.3	187.3	0.4		4.4	-20	4073	No stop
14 19 10	---	19 02 15	27.3	187.8	0.5		4.7	100	4104	14 17 11
14 19 40	J1835-1115	19 02 45	25.4	187.1	0.4		4.3	9	4104	14 19 40
14 20 40	=1832-113	19 03 45	25.4	187.3	0.5		4.5	60	4120	14 19 41
14 20 40	HESSJ1832	19 03 45	27.2	188.2	0.5		5.0	-21	4120	No stop
14 22 40	---	19 05 45	27.2	188.8	0.5		5.3	99	4151	14 20 41
14 23 10	J1825-0737	19 06 15	28.7	191.1	0.7		6.7	11	4151	14 23 10
14 24 10	=1822-076	19 07 15	28.7	191.4	0.7		6.9	60	4166	14 23 11
14 24 10	HESSJ1832	19 07 15	27.2	189.2	0.6		5.6	-19	4166	No stop
14 26 10	---	19 09 16	27.1	189.8	0.6		5.9	101	4197	14 24 11
14 26 40	J1835-1115	19 09 46	25.3	189.0	0.6		5.5	9	4197	14 26 40
14 27 40	=1832-113	19 10 46	25.2	189.2	0.6		5.6	60	4212	14 26 41
14 27 40	HESSJ1832	19 10 46	27.1	190.2	0.6		6.2	-21	4212	No stop
14 29 40	---	19 12 46	27.0	190.7	0.6		6.5	99	4243	14 27 41
14 30 10	J1825-0737	19 13 16	28.5	193.1	0.8		7.9	11	4243	14 30 10
14 31 10	=1822-076	19 14 17	28.5	193.4	0.8		8.1	60	4259	14 30 11
14 31 10	HESSJ1832	19 14 17	27.0	191.1	0.7		6.7	-19	4259	No stop
14 33 10	---	19 16 17	26.9	191.7	0.7		7.1	101	4290	14 31 11
14 33 40	J1835-1115	19 16 47	25.1	190.9	0.7		6.6	9	4290	14 33 40
14 34 40	=1832-113	19 17 47	25.1	191.1	0.7		6.8	60	4305	14 33 41
14 34 40	HESSJ1832	19 17 47	26.9	192.1	0.7		7.3	-20	4305	No stop
14 36 40	---	19 19 48	26.8	192.6	0.8		7.7	100	4336	14 34 41
14 37 10	J1825-0737	19 20 18	28.2	195.0	0.9		9.0	11	4336	14 37 10
14 38 10	=1822-076	19 21 18	28.2	195.3	0.9		9.2	60	4352	14 37 11
14 38 10	HESSJ1832	19 21 18	26.8	193.1	0.8		7.9	-19	4352	No stop
14 40 10	---	19 23 18	26.7	193.6	0.8		8.2	101	4382	14 38 11

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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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 12 Nov 2024 Day 317 ---										
14 40 40	J1835-1115	19 23 48	24.9	192.7	0.8		7.8	9	4382	14 40 40
14 41 40	=1832-113	19 24 48	24.8	193.0	0.8		7.9	60	4398	14 40 41
14 41 40	HESSJ1832	19 24 48	26.6	194.0	0.8		8.5	-20	4398	No stop
14 43 40	---	19 26 49	26.6	194.6	0.9		8.8	100	4429	14 41 41
14 44 10	J1825-0737	19 27 19	28.0	197.0	1.0		10.2	11	4429	14 44 10
14 45 10	=1822-076	19 28 19	27.9	197.3	1.0		10.4	60	4444	14 44 11
14 46 40	J1751+0939	19 29 49	42.3	213.3	1.6		19.5	22	4444	14 46 40
14 50 40	=1749+096	19 33 50	42.0	214.5	1.7		20.2	240	4506	14 46 41
14 52 10	J1825-0737	19 35 20	27.6	199.2	1.1		11.5	22	4506	14 52 10
14 53 30	=1822-076	19 36 40	27.5	199.6	1.2		11.7	80	4527	14 52 11
14 53 30	HESSJ1832	19 36 40	26.1	197.2	1.0		10.4	-19	4527	No stop
14 55 30	---	19 38 41	26.1	197.8	1.1		10.7	101	4558	14 53 31
14 56 00	J1835-1115	19 39 11	24.3	196.8	1.0		10.2	10	4558	14 56 00
14 57 00	=1832-113	19 40 11	24.2	197.1	1.1		10.4	60	4573	14 56 01
14 57 00	HESSJ1832	19 40 11	26.0	198.2	1.1		11.0	-20	4573	No stop
14 59 00	---	19 42 11	25.9	198.7	1.1		11.3	100	4604	14 57 01
14 59 30	J1825-0737	19 42 41	27.2	201.2	1.3		12.7	11	4604	14 59 30
15 00 30	=1822-076	19 43 41	27.1	201.5	1.3		12.8	60	4619	14 59 31
15 00 30	HESSJ1832	19 43 41	25.8	199.1	1.2		11.5	-18	4619	No stop
15 02 30	---	19 45 42	25.7	199.7	1.2		11.8	102	4650	15 00 31
15 03 00	J1835-1115	19 46 12	24.0	198.7	1.2		11.3	10	4650	15 03 00
15 04 00	=1832-113	19 47 12	23.9	199.0	1.2		11.5	60	4666	15 03 01
15 04 00	HESSJ1832	19 47 12	25.6	200.1	1.2		12.1	-20	4666	No stop
15 06 00	---	19 49 12	25.5	200.6	1.3		12.4	100	4697	15 04 01
15 06 30	J1825-0737	19 49 42	26.8	203.1	1.4		13.7	11	4697	15 06 30
15 07 30	=1822-076	19 50 43	26.7	203.4	1.4		13.9	60	4712	15 06 31
15 07 30	HESSJ1832	19 50 43	25.5	201.0	1.3		12.6	-19	4712	No stop
15 09 30	---	19 52 43	25.3	201.5	1.3		12.9	101	4743	15 07 31
15 10 00	J1835-1115	19 53 13	23.6	200.5	1.3		12.4	10	4743	15 10 00
15 11 00	=1832-113	19 54 13	23.6	200.8	1.3		12.6	60	4759	15 10 01

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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 12 Nov 2024 Day 317 ---										
15 11 00	HESSJ1832	19 54 13	25.3	201.9	1.3		13.1	-20	4759	No stop
15 13 00	---	19 56 13	25.2	202.5	1.4		13.5	100	4789	15 11 01
15 13 30	J1825-0737	19 56 44	26.4	205.0	1.5		14.8	11	4789	15 13 30
15 14 30	=1822-076	19 57 44	26.3	205.3	1.5		15.0	60	4805	15 13 31
15 14 30	HESSJ1832	19 57 44	25.1	202.9	1.4		13.7	-19	4805	No stop
15 16 30	---	19 59 44	24.9	203.4	1.4		14.0	101	4836	15 14 31
15 17 00	J1835-1115	20 00 14	23.2	202.4	1.4		13.5	10	4836	15 17 00
15 18 00	=1832-113	20 01 14	23.2	202.6	1.4		13.6	60	4851	15 17 01
15 18 00	HESSJ1832	20 01 14	24.9	203.8	1.5		14.2	-20	4851	No stop
15 20 00	---	20 03 15	24.7	204.3	1.5		14.5	100	4882	15 18 01
15 20 30	J1825-0737	20 03 45	25.9	206.9	1.6		15.9	11	4882	15 20 30
15 21 30	=1822-076	20 04 45	25.8	207.1	1.6		16.0	60	4898	15 20 31
15 21 30	HESSJ1832	20 04 45	24.6	204.7	1.5		14.7	-19	4898	No stop
15 23 30	---	20 06 45	24.5	205.3	1.5		15.0	101	4929	15 21 31
15 24 00	J1835-1115	20 07 15	22.8	204.2	1.5		14.5	10	4929	15 24 00
15 25 00	=1832-113	20 08 15	22.7	204.4	1.5		14.7	60	4944	15 24 01
15 25 00	HESSJ1832	20 08 15	24.4	205.6	1.6		15.3	-20	4944	No stop
15 27 00	---	20 10 16	24.3	206.2	1.6		15.6	100	4975	15 25 01
15 27 30	J1825-0737	20 10 46	25.4	208.7	1.7		16.9	11	4975	15 27 30
15 28 30	=1822-076	20 11 46	25.3	209.0	1.7		17.1	60	4990	15 27 31
15 28 30	HESSJ1832	20 11 46	24.2	206.6	1.6		15.8	-19	4990	No stop
15 30 30	---	20 13 46	24.0	207.1	1.7		16.1	101	5021	15 28 31
15 31 00	J1835-1115	20 14 16	22.4	206.0	1.6		15.6	10	5021	15 31 00
15 32 00	=1832-113	20 15 17	22.3	206.2	1.6		15.7	60	5037	15 31 01
15 32 00	HESSJ1832	20 15 17	23.9	207.5	1.7		16.3	-20	5037	No stop
15 34 00	---	20 17 17	23.8	208.0	1.7		16.6	100	5068	15 32 01
15 34 30	J1825-0737	20 17 47	24.9	210.5	1.8		17.9	11	5068	15 34 30
15 35 30	=1822-076	20 18 47	24.8	210.8	1.9		18.1	60	5083	15 34 31
15 35 30	HESSJ1832	20 18 47	23.7	208.4	1.7		16.8	-19	5083	No stop
15 37 30	---	20 20 48	23.6	208.9	1.8		17.1	101	5114	15 35 31

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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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
--- Tue 12 Nov 2024 Day 317 ---										
15 38 00	J1835-1115	20 21 18	21.9	207.8	1.7		16.6	10	5114	15 38 00
15 39 00	=1832-113	20 22 18	21.8	208.0	1.8		16.7	60	5130	15 38 01
15 39 00	HESSJ1832	20 22 18	23.4	209.3	1.8		17.3	-20	5130	No stop
15 41 00	---	20 24 18	23.3	209.8	1.8		17.6	100	5160	15 39 01
15 41 30	J1825-0737	20 24 48	24.4	212.4	2.0		18.9	11	5160	15 41 30
15 42 30	=1822-076	20 25 48	24.3	212.6	2.0		19.1	60	5176	15 41 31
15 42 30	HESSJ1832	20 25 48	23.2	210.2	1.9		17.8	-19	5176	No stop
15 44 30	---	20 27 49	23.0	210.7	1.9		18.1	101	5207	15 42 31
15 45 00	J1835-1115	20 28 19	21.4	209.5	1.9		17.6	10	5207	15 45 00
15 46 00	=1832-113	20 29 19	21.3	209.8	1.9		17.7	60	5222	15 45 01
15 46 00	HESSJ1832	20 29 19	22.9	211.1	1.9		18.3	-20	5222	No stop
15 48 00	---	20 31 19	22.8	211.6	2.0		18.6	100	5253	15 46 01
15 48 30	J1825-0737	20 31 49	23.8	214.1	2.1		19.9	11	5253	15 48 30
15 49 30	=1822-076	20 32 49	23.7	214.4	2.1		20.0	60	5269	15 48 31
15 49 30	HESSJ1832	20 32 49	22.6	212.0	2.0		18.8	-19	5269	No stop
15 51 30	---	20 34 50	22.5	212.5	2.0		19.1	101	5300	15 49 31
15 52 00	J1835-1115	20 35 20	20.8	211.3	2.0		18.5	10	5300	15 52 00
15 53 00	=1832-113	20 36 20	20.8	211.5	2.0		18.7	60	5315	15 52 01
15 53 00	HESSJ1832	20 36 20	22.4	212.9	2.0		19.3	-19	5315	No stop
15 55 00	---	20 38 20	22.2	213.4	2.1		19.5	101	5346	15 53 01
15 55 30	J1825-0737	20 38 50	23.2	215.9	2.2		20.8	11	5346	15 55 30
15 56 30	=1822-076	20 39 51	23.1	216.2	2.2		21.0	60	5361	15 55 31
15 56 30	HESSJ1832	20 39 51	22.1	213.7	2.1		19.8	-19	5361	No stop
15 58 30	---	20 41 51	21.9	214.2	2.1		20.0	101	5392	15 56 31
15 59 00	J1835-1115	20 42 21	20.3	213.0	2.1		19.5	10	5392	15 59 00
16 00 00	=1832-113	20 43 21	20.2	213.3	2.1		19.6	60	5408	15 59 01
16 00 00	HESSJ1832	20 43 21	21.8	214.6	2.2		20.2	-19	5408	No stop
16 02 00	---	20 45 22	21.6	215.1	2.2		20.5	101	5439	16 00 01
16 02 30	J1825-0737	20 45 52	22.5	217.7	2.3		21.7	11	5439	16 02 30
16 03 30	=1822-076	20 46 52	22.4	217.9	2.3		21.9	60	5454	16 02 31

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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 12 Nov 2024 Day 317 ---										
16 03 30	HESSJ1832	20 46 52	21.5	215.5	2.2		20.7	-19	5454	No stop
16 05 30	---	20 48 52	21.3	216.0	2.2		20.9	101	5485	16 03 31
16 06 00	J1835-1115	20 49 22	19.7	214.7	2.2		20.4	11	5485	16 06 00
16 07 00	=1832-113	20 50 22	19.6	215.0	2.2		20.6	60	5501	16 06 01
16 07 00	HESSJ1832	20 50 22	21.2	216.3	2.3		21.1	-19	5501	No stop
16 09 00	---	20 52 23	21.0	216.8	2.3		21.4	101	5531	16 07 01
16 09 30	J1825-0737	20 52 53	21.9	219.4	2.4		22.6	11	5531	16 09 30
16 10 30	=1822-076	20 53 53	21.8	219.7	2.4		22.8	60	5547	16 09 31
16 10 30	HESSJ1832	20 53 53	20.8	217.2	2.3		21.6	-19	5547	No stop
16 12 30	---	20 55 53	20.7	217.7	2.4		21.9	101	5578	16 10 31
16 13 00	J1835-1115	20 56 23	19.1	216.5	2.3		21.3	11	5578	16 13 00
16 14 00	=1832-113	20 57 24	19.0	216.7	2.3		21.5	60	5593	16 13 01
16 14 00	HESSJ1832	20 57 24	20.5	218.1	2.4		22.0	-19	5593	No stop
16 16 00	---	20 59 24	20.3	218.6	2.4		22.3	101	5624	16 14 01
16 16 30	J1825-0737	20 59 54	21.2	221.1	2.5		23.5	11	5624	16 16 30
16 17 30	=1822-076	21 00 54	21.1	221.4	2.6		23.6	60	5640	16 16 31
16 17 30	HESSJ1832	21 00 54	20.2	218.9	2.4		22.5	-19	5640	No stop
16 19 30	---	21 02 54	20.0	219.4	2.5		22.7	101	5671	16 17 31
16 20 00	J1835-1115	21 03 24	18.4	218.1	2.4		22.2	11	5671	16 20 00
16 21 00	=1832-113	21 04 25	18.4	218.4	2.5		22.3	60	5686	16 20 01
16 21 00	HESSJ1832	21 04 25	19.9	219.8	2.5		22.9	-19	5686	No stop
16 23 00	---	21 06 25	19.7	220.3	2.5		23.2	101	5717	16 21 01
16 23 30	J1825-0737	21 06 55	20.5	222.8	2.7		24.3	11	5717	16 23 30
16 24 30	=1822-076	21 07 55	20.4	223.1	2.7		24.4	60	5732	16 23 31
16 24 30	HESSJ1832	21 07 55	19.5	220.6	2.6		23.3	-19	5732	No stop
16 26 30	---	21 09 56	19.3	221.1	2.6		23.6	101	5763	16 24 31
16 27 00	J1835-1115	21 10 26	17.8	219.8	2.6		23.1	11	5763	16 27 00
16 28 00	=1832-113	21 11 26	17.7	220.0	2.6		23.2	60	5779	16 27 01
16 28 00	HESSJ1832	21 11 26	19.2	221.5	2.6		23.8	-19	5779	No stop
16 30 00	---	21 13 26	19.0	221.9	2.7		24.0	101	5810	16 28 01

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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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 12 Nov 2024 Day 317 ---										
16 30 30	J1825-0737	21 13 56	19.8	224.5	2.8		25.1	11	5810	16 30 30
16 31 30	=1822-076	21 14 56	19.7	224.8	2.8		25.3	60	5825	16 30 31
16 33 00	J1751+0939	21 16 27	30.5	242.6	3.4		32.7	35	5825	16 33 00
16 37 00	=1749+096	21 20 27	29.9	243.6	3.5		33.1	240	5887	16 33 01
16 38 30	J1825-0737	21 21 58	18.9	226.4	2.9		26.0	35	5887	16 38 30
16 39 50	=1822-076	21 23 18	18.8	226.7	2.9		26.2	80	5908	16 38 31
16 39 50	HESSJ1832	21 23 18	18.0	224.3	2.8		25.1	-19	5908	No stop
16 41 50	---	21 25 18	17.8	224.7	2.9		25.4	101	5939	16 39 51
16 42 20	J1835-1115	21 25 48	16.2	223.4	2.8		24.9	11	5939	16 42 20
16 43 20	=1832-113	21 26 48	16.1	223.6	2.8		25.0	60	5954	16 42 21
16 43 20	HESSJ1832	21 26 48	17.6	225.1	2.9		25.5	-19	5954	No stop
16 45 20	---	21 28 49	17.4	225.6	2.9		25.8	101	5985	16 43 21
16 45 50	J1825-0737	21 29 19	18.1	228.1	3.0		26.8	11	5985	16 45 50
16 46 50	=1822-076	21 30 19	18.0	228.4	3.1		26.9	60	6000	16 45 51
16 46 50	HESSJ1832	21 30 19	17.2	225.9	2.9		25.9	-19	6000	No stop
16 48 50	---	21 32 19	17.0	226.4	3.0		26.1	101	6031	16 46 51
16 49 20	J1835-1115	21 32 49	15.5	225.0	2.9		25.7	11	6031	16 49 20
16 50 20	=1832-113	21 33 49	15.4	225.3	3.0		25.8	60	6047	16 49 21
16 50 20	HESSJ1832	21 33 49	16.8	226.7	3.0		26.3	-19	6047	No stop
16 52 20	---	21 35 50	16.6	227.2	3.0		26.5	101	6078	16 50 21
16 52 50	J1825-0737	21 36 20	17.3	229.8	3.2		27.6	11	6078	16 52 50
16 53 50	=1822-076	21 37 20	17.2	230.0	3.2		27.7	60	6093	16 52 51
16 53 50	HESSJ1832	21 37 20	16.4	227.5	3.1		26.7	-19	6093	No stop
16 55 50	---	21 39 20	16.2	228.0	3.1		26.9	101	6124	16 53 51
16 56 20	J1835-1115	21 39 50	14.8	226.6	3.1		26.4	11	6124	16 56 20
16 57 20	=1832-113	21 40 51	14.6	226.9	3.1		26.5	60	6140	16 56 21
16 57 20	HESSJ1832	21 40 51	16.1	228.3	3.1		27.0	-19	6140	No stop
16 59 20	---	21 42 51	15.8	228.8	3.1		27.2	101	6170	16 57 21
16 59 50	J1825-0737	21 43 21	16.5	231.4	3.3		28.3	11	6170	16 59 50
17 00 50	=1822-076	21 44 21	16.4	231.6	3.3		28.3	60	6186	16 59 51

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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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 12 Nov 2024 Day 317 ---										
17 00 50	HESSJ1832	21 44 21	15.7	229.1	3.2		27.4	-19	6186	No stop
17 02 50	---	21 46 22	15.4	229.6	3.2		27.6	101	6217	17 00 51
17 03 20	J1835-1115	21 46 52	14.0	228.2	3.2		27.2	11	6217	17 03 20
17 04 20	=1832-113	21 47 52	13.9	228.4	3.2		27.3	60	6232	17 03 21
17 04 20	HESSJ1832	21 47 52	15.3	229.9	3.2		27.8	-18	6232	No stop
17 06 20	---	21 49 52	15.0	230.4	3.3		28.0	102	6263	17 04 21
17 06 50	J1825-0737	21 50 22	15.7	233.0	3.4		28.9	11	6263	17 06 50
17 07 50	=1822-076	21 51 22	15.5	233.2	3.4		29.0	60	6279	17 06 51
17 07 50	HESSJ1832	21 51 22	14.9	230.7	3.3		28.1	-19	6279	No stop
17 09 50	---	21 53 23	14.6	231.2	3.3		28.3	101	6310	17 07 51
17 10 20	J1835-1115	21 53 53	13.2	229.8	3.3		27.9	11	6310	17 10 20
17 11 20	=1832-113	21 54 53	13.1	230.0	3.3		28.0	60	6325	17 10 21
17 11 20	HESSJ1832	21 54 53	14.4	231.5	3.3		28.4	-18	6325	No stop
17 13 20	---	21 56 53	14.2	232.0	3.4		28.6	102	6356	17 11 21
17 13 50	J1825-0737	21 57 23	14.8	234.5	3.5		29.6	11	6356	17 13 50
17 14 50	=1822-076	21 58 23	14.7	234.8	3.5		29.7	60	6371	17 13 51
17 14 50	HESSJ1832	21 58 23	14.0	232.3	3.4		28.8	-19	6371	No stop
17 16 50	---	22 00 24	13.8	232.7	3.4		29.0	101	6402	17 14 51
17 17 20	J1835-1115	22 00 54	12.4	231.3	3.4		28.6	11	6402	17 17 20
17 18 20	=1832-113	22 01 54	12.3	231.6	3.4		28.7	60	6418	17 17 21
17 18 20	HESSJ1832	22 01 54	13.6	233.1	3.5		29.1	-18	6418	No stop
17 20 20	---	22 03 54	13.4	233.5	3.5		29.3	102	6449	17 18 21
17 20 50	J1825-0737	22 04 24	13.9	236.1	3.6		30.2	11	6449	17 20 50
17 21 50	=1822-076	22 05 25	13.8	236.3	3.6		30.3	60	6464	17 20 51
17 21 50	HESSJ1832	22 05 25	13.2	233.9	3.5		29.4	-19	6464	No stop
17 23 50	---	22 07 25	12.9	234.3	3.6		29.6	101	6495	17 21 51
17 24 20	J1835-1115	22 07 55	11.5	232.9	3.5		29.2	11	6495	17 24 20
17 25 20	=1832-113	22 08 55	11.4	233.1	3.5		29.3	60	6511	17 24 21
17 25 20	HESSJ1832	22 08 55	12.8	234.6	3.6		29.8	-18	6511	No stop
17 27 20	---	22 10 56	12.5	235.1	3.6		29.9	102	6541	17 25 21

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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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 12 Nov 2024 Day 317 ---										
17 27 50	J1825-0737	22 11 26	13.1	237.6	3.7		30.8	11	6541	17 27 50
17 28 50	=1822-076	22 12 26	12.9	237.9	3.8		30.9	60	6557	17 27 51
17 28 50	HESSJ1832	22 12 26	12.3	235.4	3.6		30.1	-19	6557	No stop
17 30 50	---	22 14 26	12.1	235.8	3.7		30.2	101	6588	17 28 51
17 31 20	J1835-1115	22 14 56	10.7	234.4	3.6		29.9	12	6588	17 31 20
17 32 20	=1832-113	22 15 56	10.6	234.6	3.7		29.9	60	6603	17 31 21
17 32 20	HESSJ1832	22 15 56	11.9	236.2	3.7		30.4	-18	6603	No stop
17 34 20	---	22 17 57	11.6	236.6	3.7		30.5	102	6634	17 32 21
17 34 50	J1825-0737	22 18 27	12.2	239.2	3.9		31.3	11	6634	17 34 50
17 35 50	=1822-076	22 19 27	12.0	239.4	3.9		31.4	60	6650	17 34 51
17 35 50	HESSJ1832	22 19 27	11.5	236.9	3.8		30.7	-19	6650	No stop
17 37 50	---	22 21 27	11.2	237.4	3.8		30.8	101	6681	17 35 51
17 38 20	J1835-1115	22 21 57	9.8	235.9	3.8		30.5	12	6681	17 38 20
17 39 20	=1832-113	22 22 58	9.7	236.1	3.8		30.6	60	6696	17 38 21
17 39 20	HESSJ1832	22 22 58	11.0	237.7	3.8		31.0	-18	6696	No stop
17 41 20	---	22 24 58	10.8	238.1	3.8		31.1	102	6727	17 39 21
17 41 50	J1825-0737	22 25 28	11.2	240.7	4.0		31.9	11	6727	17 41 50
17 42 50	=1822-076	22 26 28	11.1	240.9	4.0		32.0	60	6742	17 41 51
17 42 50	HESSJ1832	22 26 28	10.6	238.4	3.9		31.2	-19	6742	No stop
17 44 50	---	22 28 28	10.3	238.9	3.9		31.4	101	6773	17 42 51
17 46 20	HESSJ1832	22 29 59	10.1	239.2	3.9		31.5	84	6773	17 46 20
17 48 20	---	22 31 59	9.9	239.6	4.0		31.7	120	6804	17 46 21
17 48 50	J1825-0737	22 32 29	10.3	242.2	4.1		32.4	11	6804	17 48 50
17 49 50	=1822-076	22 33 29	10.2	242.4	4.1		32.5	60	6820	17 48 51
17 49 50	HESSJ1832	22 33 29	9.7	239.9	4.0		31.8	-19	6820	No stop
17 51 50	---	22 35 30	9.4	240.4	4.0		31.9	101	6851	17 49 51
17 55 50	J1825-0737	22 39 30	9.4	243.7	4.2		32.9	221	6851	17 55 50
17 56 50	=1822-076	22 40 30	9.2	243.9	4.2		33.0	60	6866	17 55 51
18 26 20	J1751+0939	23 10 05	14.1	267.3	5.3		37.5	1720	6866	18 26 20
18 30 00	=1749+096	23 13 46	13.5	268.1	5.4		37.5	220	6923	18 26 21

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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
-----
--- Tue 12 Nov 2024  Day 317 ---

----- GAP -----

18 40 00  J0204+1514  23 23 47  40.6 124.2 -2.7   -31.0  295   6923  18 40 00
18 45 00  =0202+149    23 28 48  41.3 125.6 -2.6   -30.4  300   7000  18 40 01

18 47 00  J0204+1514  23 30 49  41.5 126.1 -2.6   -30.2  113   7000  18 47 00
19 00 00  =0202+149    23 43 51  43.1 129.8 -2.4   -28.6  780   7201  18 47 01

19 02 00  J0204+1514  23 45 51  43.3 130.4 -2.3   -28.3  113   7201  19 02 00
19 15 00  =0202+149    23 58 53  44.7 134.3 -2.1   -26.5  780   7402  19 02 01

19 17 00  J0204+1514  00 00 54  44.9 134.9 -2.1   -26.2  113   7402  19 17 00
19 30 00  =0202+149    00 13 56  46.3 139.0 -1.9   -24.1  780   7603  19 17 01

19 32 00  J0204+1514  00 15 56  46.5 139.6 -1.8   -23.8  113   7603  19 32 00
19 45 00  =0202+149    00 28 58  47.7 143.9 -1.6   -21.5  780   7804  19 32 01

19 47 00  J0204+1514  00 30 58  47.9 144.5 -1.6   -21.2  113   7804  19 47 00
20 00 00  =0202+149    00 44 01  48.9 149.0 -1.4   -18.7  780   8005  19 47 01

20 02 00  J0204+1514  00 46 01  49.1 149.7 -1.3   -18.3  113   8005  20 02 00
20 15 00  =0202+149    00 59 03  50.0 154.3 -1.1   -15.7  780   8206  20 02 01

20 17 00  J0204+1514  01 01 03  50.1 155.0 -1.1   -15.2  113   8206  20 17 00
20 30 00  =0202+149    01 14 06  50.9 159.8 -0.9   -12.4  780   8407  20 17 01

20 32 00  J0530+1331  01 16 06  26.3 102.8 -4.3   -37.0   -9   8407  20 32 00
20 45 00  =0528+134    01 29 08  28.2 105.7 -4.1   -36.5  771   8608  20 32 01

20 47 00  J0530+1331  01 31 08  28.5 106.1 -4.0   -36.4  114   8608  20 47 00
21 00 00  =0528+134    01 44 10  30.3 109.1 -3.8   -35.7  780   8809  20 47 01

21 02 00  J0530+1331  01 46 11  30.6 109.5 -3.8   -35.6  114   8809  21 02 00
21 15 00  =0528+134    01 59 13  32.4 112.6 -3.6   -34.8  780   9010  21 02 01

21 17 00  J0530+1331  02 01 13  32.7 113.1 -3.5   -34.6  114   9010  21 17 00
21 30 00  =0528+134    02 14 15  34.5 116.2 -3.3   -33.7  780   9211  21 17 01

21 32 00  J0530+1331  02 16 16  34.8 116.7 -3.3   -33.5  114   9211  21 32 00
21 45 00  =0528+134    02 29 18  36.5 120.0 -3.1   -32.4  780   9412  21 32 01

21 47 00  J0530+1331  02 31 18  36.7 120.5 -3.0   -32.2  114   9412  21 47 00
22 00 00  =0528+134    02 44 20  38.4 123.9 -2.8   -30.8  780   9612  21 47 01

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Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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 12 Nov 2024 Day 317 ---										
22 02 00	J0530+1331	02 46 21	38.7	124.4	-2.8		-30.6	113	9612	22 02 00
22 15 00	=0528+134	02 59 23	40.2	128.0	-2.5		-29.1	780	9813	22 02 01
22 17 00	J0530+1331	03 01 23	40.5	128.5	-2.5		-28.9	113	9813	22 17 00
22 30 00	=0528+134	03 14 25	42.0	132.3	-2.3		-27.2	780	10014	22 17 01
22 32 00	J0530+1331	03 16 26	42.2	132.8	-2.3		-26.9	113	10014	22 32 00
22 45 00	=0528+134	03 29 28	43.6	136.7	-2.0		-25.1	780	10215	22 32 01
22 47 00	J0530+1331	03 31 28	43.8	137.3	-2.0		-24.7	113	10215	22 47 00
23 00 00	=0528+134	03 44 30	45.0	141.4	-1.8		-22.7	780	10416	22 47 01
23 02 00	J0530+1331	03 46 31	45.2	142.0	-1.8		-22.3	113	10416	23 02 00
23 15 00	=0528+134	03 59 33	46.4	146.3	-1.5		-20.1	780	10617	23 02 01
23 17 00	J0530+1331	04 01 33	46.5	146.9	-1.5		-19.7	113	10617	23 17 00
23 30 00	=0528+134	04 14 35	47.5	151.3	-1.3		-17.2	780	10818	23 17 01
23 32 00	J0854+2006	04 16 35	27.9	93.4	-4.7		-39.6	-11	10818	23 32 00
23 45 00	=0J287	04 29 38	29.8	96.1	-4.4		-39.5	769	11019	23 32 01
23 47 00	J0854+2006	04 31 38	30.1	96.5	-4.4		-39.4	114	11019	23 47 00
23 59 59	=0J287	04 44 40	32.1	99.3	-4.2		-39.1	779	11220	23 47 01
--- Wed 13 Nov 2024 Day 318 ---										
00 02 00	J0854+2006	04 46 40	32.4	99.7	-4.2		-39.0	114	11220	00 02 00
00 15 00	=0J287	04 59 43	34.3	102.6	-3.9		-38.6	780	11421	00 02 01
00 17 00	J0854+2006	05 01 43	34.6	103.0	-3.9		-38.5	114	11421	00 17 00
00 30 00	=0J287	05 14 45	36.5	106.0	-3.7		-37.9	780	11622	00 17 01
00 32 00	J0854+2006	05 16 45	36.8	106.4	-3.7		-37.8	114	11622	00 32 00
00 45 00	=0J287	05 29 47	38.6	109.5	-3.4		-37.0	780	11823	00 32 01
00 47 00	J0854+2006	05 31 48	38.9	110.0	-3.4		-36.9	114	11823	00 47 00
01 00 00	=0J287	05 44 50	40.7	113.2	-3.2		-36.0	780	12024	00 47 01
01 02 00	J0854+2006	05 46 50	41.0	113.7	-3.2		-35.8	114	12024	01 02 00
01 15 00	=0J287	05 59 52	42.8	117.1	-2.9		-34.7	780	12225	01 02 01
01 17 00	J0854+2006	06 01 53	43.0	117.6	-2.9		-34.5	113	12225	01 17 00
01 30 00	=0J287	06 14 55	44.7	121.1	-2.7		-33.2	780	12426	01 17 01

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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 13 Nov 2024 Day 318 ---										
01 32 00	J0854+2006	06 16 55	45.0	121.7	-2.7		-32.9	113	12426	01 32 00
01 45 00	=0J287	06 29 57	46.6	125.4	-2.4		-31.4	780	12627	01 32 01
01 47 00	J0854+2006	06 31 58	46.9	126.0	-2.4		-31.1	113	12627	01 47 00
02 00 00	=0J287	06 45 00	48.4	129.9	-2.2		-29.4	780	12828	01 47 01
02 02 00	J0854+2006	06 47 00	48.6	130.5	-2.2		-29.1	113	12828	02 02 00
02 15 00	=0J287	07 00 02	50.1	134.7	-1.9		-27.0	780	13029	02 02 01
02 17 00	J0854+2006	07 02 03	50.3	135.3	-1.9		-26.7	113	13029	02 17 00
02 30 00	=0J287	07 15 05	51.6	139.7	-1.7		-24.4	780	13230	02 17 01
02 32 00	J0854+2006	07 17 05	51.8	140.4	-1.7		-24.0	113	13230	02 32 00
02 45 00	=0J287	07 30 07	53.0	145.1	-1.4		-21.5	780	13431	02 32 01
02 47 00	J0854+2006	07 32 07	53.2	145.8	-1.4		-21.1	113	13431	02 47 00
03 00 00	=0J287	07 45 10	54.2	150.7	-1.2		-18.3	780	13632	02 47 01
03 02 00	J0854+2006	07 47 10	54.3	151.4	-1.2		-17.8	113	13632	03 02 00
03 15 00	=0J287	08 00 12	55.2	156.5	-0.9		-14.8	780	13833	03 02 01
03 17 00	J0854+2006	08 02 12	55.3	157.3	-0.9		-14.3	113	13833	03 17 00
03 30 00	=0J287	08 15 15	56.0	162.6	-0.7		-11.0	780	14034	03 17 01
03 32 00	J1224+2122	08 17 15	33.4	98.9	-4.1		-39.5	-22	14034	03 32 00
03 45 00	=1222+216	08 30 17	35.3	101.8	-3.9		-39.1	758	14235	03 32 01
03 47 00	J1224+2122	08 32 17	35.6	102.2	-3.9		-39.0	114	14235	03 47 00
04 00 00	=1222+216	08 45 19	37.5	105.2	-3.7		-38.4	780	14435	03 47 01
04 02 00	J1224+2122	08 47 20	37.8	105.6	-3.6		-38.3	114	14435	04 02 00
04 15 00	=1222+216	09 00 22	39.7	108.7	-3.4		-37.6	780	14636	04 02 01
04 17 00	J1224+2122	09 02 22	40.0	109.2	-3.4		-37.5	114	14636	04 17 00
04 30 00	=1222+216	09 15 24	41.8	112.4	-3.2		-36.6	780	14837	04 17 01
04 32 00	J1224+2122	09 17 25	42.1	112.9	-3.1		-36.4	114	14837	04 32 00
04 45 00	=1222+216	09 30 27	43.9	116.3	-2.9		-35.3	780	15038	04 32 01
04 47 00	J1224+2122	09 32 27	44.1	116.8	-2.9		-35.1	113	15038	04 47 00
05 00 00	=1222+216	09 45 29	45.8	120.4	-2.7		-33.8	780	15239	04 47 01
05 02 00	J1224+2122	09 47 30	46.1	120.9	-2.6		-33.6	113	15239	05 02 00
05 15 00	=1222+216	10 00 32	47.7	124.7	-2.4		-32.0	780	15440	05 02 01

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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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

--- Wed 13 Nov 2024 Day 318 ---										
05 17 00	J1224+2122	10 02 32	48.0	125.2	-2.4		-31.7	113	15440	05 17 00
05 30 00	=1222+216	10 15 34	49.6	129.2	-2.2		-30.0	780	15641	05 17 01
05 32 00	J1224+2122	10 17 35	49.8	129.8	-2.1		-29.7	113	15641	05 32 00
05 45 00	=1222+216	10 30 37	51.2	134.0	-1.9		-27.6	780	15842	05 32 01
05 47 00	J1224+2122	10 32 37	51.5	134.7	-1.9		-27.3	113	15842	05 47 00
06 00 00	=1222+216	10 45 39	52.8	139.1	-1.7		-24.9	780	16043	05 47 01
06 02 00	J1224+2122	10 47 40	53.0	139.8	-1.6		-24.6	113	16043	06 02 00
06 15 00	=1222+216	11 00 42	54.2	144.5	-1.4		-22.0	780	16244	06 02 01
06 17 00	J1224+2122	11 02 42	54.4	145.3	-1.4		-21.5	113	16244	06 17 00
06 30 00	=1222+216	11 15 44	55.4	150.2	-1.2		-18.7	780	16445	06 17 01
06 32 00	J1224+2122	11 17 44	55.6	151.0	-1.1		-18.2	113	16445	06 32 00
06 45 00	=1222+216	11 30 47	56.4	156.2	-0.9		-15.1	780	16646	06 32 01
06 47 00	J1224+2122	11 32 47	56.5	157.0	-0.9		-14.6	113	16646	06 47 00
07 00 00	=1222+216	11 45 49	57.2	162.5	-0.7		-11.2	780	16847	06 47 01
07 02 00	J1224+2122	11 47 49	57.3	163.3	-0.6		-10.7	113	16847	07 02 00
07 15 00	=1222+216	12 00 52	57.8	168.9	-0.4		-7.1	780	17048	07 02 01
07 17 00	J1224+2122	12 02 52	57.8	169.8	-0.4		-6.6	113	17048	07 17 00
07 30 00	=1222+216	12 15 54	58.1	175.5	-0.2		-2.9	780	17249	07 17 01
07 32 00	3C345	12 17 54	44.1	78.9	-4.4		-50.0	-88	17249	07 32 00
07 45 00	---	12 30 56	46.0	81.1	-4.2		-50.5	692	17450	07 32 01
07 47 00	3C345	12 32 57	46.3	81.5	-4.2		-50.6	114	17450	07 47 00
08 00 00	---	12 45 59	48.3	83.8	-4.0		-51.0	780	17651	07 47 01
08 02 00	3C345	12 47 59	48.6	84.2	-3.9		-51.0	114	17651	08 02 00
08 15 00	---	13 01 01	50.5	86.6	-3.7		-51.2	780	17852	08 02 01
08 17 00	3C345	13 03 02	50.8	87.0	-3.7		-51.3	114	17852	08 17 00
08 30 00	---	13 16 04	52.8	89.5	-3.5		-51.4	780	18053	08 17 01
08 32 00	3C345	13 18 04	53.1	89.9	-3.4		-51.4	114	18053	08 32 00
08 45 00	---	13 31 06	55.0	92.6	-3.2		-51.3	780	18254	08 32 01
08 47 00	3C345	13 33 07	55.3	93.0	-3.2		-51.3	114	18254	08 47 00
09 00 00	---	13 46 09	57.3	95.8	-3.0		-51.0	780	18455	08 47 01

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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 13 Nov 2024 Day 318 ---										
09 02 00	3C345	13 48 09	57.6	96.3	-2.9		-50.9	114	18455	09 02 00
09 15 00	---	14 01 11	59.5	99.3	-2.7		-50.4	780	18656	09 02 01
09 17 00	3C345	14 03 12	59.8	99.8	-2.7		-50.3	114	18656	09 17 00
09 30 00	---	14 16 14	61.7	103.1	-2.5		-49.5	780	18857	09 17 01
09 32 00	3C345	14 18 14	62.0	103.6	-2.4		-49.4	113	18857	09 32 00
09 45 00	---	14 31 16	63.9	107.3	-2.2		-48.2	780	19058	09 32 01
09 47 00	3C345	14 33 16	64.2	107.9	-2.2		-48.0	113	19058	09 47 00
10 00 00	---	14 46 19	66.0	111.9	-2.0		-46.5	780	19258	09 47 01
10 02 00	3C345	14 48 19	66.3	112.6	-1.9		-46.2	113	19258	10 02 00
10 12 00	---	14 58 21	67.7	116.0	-1.8		-44.6	600	19413	10 02 01
----- EM165F -----										
10 22 00	3C345	15 08 22	69.0	119.8	-1.6		-42.7	592	19413	10 22 00
10 27 00	---	15 13 23	69.7	121.8	-1.5		-41.6	300	19490	10 22 01
10 30 00	J1751+0939	15 16 24	36.4	129.4	-2.6		-28.1	41	19490	10 30 00
10 34 00	=1749+096	15 20 24	36.9	130.5	-2.5		-27.6	240	19552	10 30 01
10 35 40	J1825-0737	15 22 04	17.8	131.3	-3.1		-27.1	15	19552	10 35 40
10 37 10	=1822-076	15 23 35	18.0	131.6	-3.1		-26.9	90	19575	10 35 41
10 37 10	HESSJ1832	15 23 35	15.6	130.8	-3.2		-27.4	-23	19575	No stop
10 39 10	---	15 25 35	15.9	131.3	-3.1		-27.2	97	19606	10 37 11
10 39 40	J1835-1115	15 26 05	13.9	131.7	-3.2		-27.2	9	19606	10 39 40
10 40 40	=1832-113	15 27 05	14.0	131.9	-3.2		-27.1	60	19622	10 39 41
10 40 40	HESSJ1832	15 27 05	16.0	131.6	-3.1		-27.1	-21	19622	No stop
10 42 40	---	15 29 06	16.3	132.1	-3.1		-26.9	99	19653	10 40 41
10 43 10	J1825-0737	15 29 36	18.6	133.0	-3.0		-26.3	7	19653	10 43 10
10 44 10	=1822-076	15 30 36	18.8	133.3	-2.9		-26.2	60	19668	10 43 11
10 44 10	HESSJ1832	15 30 36	16.4	132.4	-3.1		-26.7	-23	19668	No stop
10 46 10	---	15 32 36	16.6	132.9	-3.0		-26.5	97	19699	10 44 11
10 46 40	J1835-1115	15 33 06	14.7	133.3	-3.1		-26.5	9	19699	10 46 40
10 47 40	=1832-113	15 34 06	14.8	133.5	-3.0		-26.4	60	19714	10 46 41

Schedule for TORUN (Code Tr)

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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

--- Wed 13 Nov 2024 Day 318 ---										
10 47 40	HESSJ1832	15 34 06	16.8	133.2	-3.0		-26.3	-21	19714	No stop
10 49 40	---	15 36 07	17.0	133.7	-3.0		-26.1	99	19745	10 47 41
10 50 10	J1825-0737	15 36 37	19.4	134.7	-2.8		-25.5	7	19745	10 50 10
10 51 10	=1822-076	15 37 37	19.5	134.9	-2.8		-25.4	60	19761	10 50 11
10 51 10	HESSJ1832	15 37 37	17.2	134.0	-2.9		-25.9	-23	19761	No stop
10 53 10	---	15 39 37	17.4	134.5	-2.9		-25.7	97	19792	10 51 11
10 53 40	J1835-1115	15 40 07	15.5	134.9	-2.9		-25.7	9	19792	10 53 40
10 54 40	=1832-113	15 41 08	15.6	135.1	-2.9		-25.6	60	19807	10 53 41
10 54 40	HESSJ1832	15 41 08	17.6	134.8	-2.9		-25.6	-21	19807	No stop
10 56 40	---	15 43 08	17.8	135.3	-2.8		-25.3	99	19838	10 54 41
10 57 10	J1825-0737	15 43 38	20.1	136.3	-2.7		-24.7	7	19838	10 57 10
10 58 10	=1822-076	15 44 38	20.3	136.6	-2.7		-24.6	60	19854	10 57 11
10 58 10	HESSJ1832	15 44 38	17.9	135.7	-2.8		-25.2	-22	19854	No stop
11 00 10	---	15 46 39	18.1	136.1	-2.8		-24.9	98	19885	10 58 11
11 00 40	J1835-1115	15 47 09	16.2	136.5	-2.8		-24.9	9	19885	11 00 40
11 01 40	=1832-113	15 48 09	16.3	136.7	-2.8		-24.8	60	19900	11 00 41
11 01 40	HESSJ1832	15 48 09	18.3	136.5	-2.8		-24.8	-21	19900	No stop
11 03 40	---	15 50 09	18.5	137.0	-2.7		-24.5	99	19931	11 01 41
11 04 10	J1825-0737	15 50 39	20.9	138.0	-2.6		-23.9	7	19931	11 04 10
11 05 10	=1822-076	15 51 39	21.0	138.3	-2.6		-23.8	60	19946	11 04 11
11 05 10	HESSJ1832	15 51 39	18.7	137.3	-2.7		-24.4	-22	19946	No stop
11 07 10	---	15 53 40	18.9	137.8	-2.7		-24.1	98	19977	11 05 11
11 07 40	J1835-1115	15 54 10	16.9	138.1	-2.7		-24.1	9	19977	11 07 40
11 08 40	=1832-113	15 55 10	17.0	138.4	-2.7		-24.0	60	19993	11 07 41
11 08 40	HESSJ1832	15 55 10	19.0	138.2	-2.6		-24.0	-21	19993	No stop
11 10 40	---	15 57 10	19.2	138.6	-2.6		-23.7	99	20024	11 08 41
11 11 10	J1825-0737	15 57 40	21.6	139.7	-2.5		-23.0	7	20024	11 11 10
11 12 10	=1822-076	15 58 40	21.7	140.0	-2.5		-22.9	60	20039	11 11 11
11 12 10	HESSJ1832	15 58 40	19.4	139.0	-2.6		-23.5	-22	20039	No stop
11 14 10	---	16 00 41	19.6	139.5	-2.6		-23.3	98	20070	11 12 11

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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

--- Wed 13 Nov 2024 Day 318 ---										
11 14 40	J1835-1115	16 01 11	17.6	139.8	-2.6		-23.3	9	20070	11 14 40
11 15 40	=1832-113	16 02 11	17.7	140.0	-2.6		-23.2	60	20085	11 14 41
11 15 40	HESSJ1832	16 02 11	19.7	139.8	-2.5		-23.1	-21	20085	No stop
11 17 40	---	16 04 11	19.9	140.3	-2.5		-22.9	99	20116	11 15 41
11 18 10	J1825-0737	16 04 41	22.2	141.5	-2.4		-22.2	7	20116	11 18 10
11 19 10	=1822-076	16 05 42	22.3	141.7	-2.4		-22.0	60	20132	11 18 11
11 19 10	HESSJ1832	16 05 42	20.0	140.7	-2.5		-22.7	-22	20132	No stop
11 21 10	---	16 07 42	20.2	141.2	-2.4		-22.4	98	20163	11 19 11
11 21 40	J1835-1115	16 08 12	18.3	141.4	-2.5		-22.4	9	20163	11 21 40
11 22 40	=1832-113	16 09 12	18.4	141.7	-2.5		-22.3	60	20178	11 21 41
11 22 40	HESSJ1832	16 09 12	20.4	141.5	-2.4		-22.2	-21	20178	No stop
11 24 40	---	16 11 13	20.6	142.0	-2.4		-22.0	99	20209	11 22 41
11 25 10	J1825-0737	16 11 43	22.9	143.2	-2.3		-21.3	8	20209	11 25 10
11 26 10	=1822-076	16 12 43	23.0	143.5	-2.2		-21.1	60	20225	11 25 11
11 26 10	HESSJ1832	16 12 43	20.7	142.4	-2.4		-21.8	-22	20225	No stop
11 28 10	---	16 14 43	20.9	142.9	-2.3		-21.5	98	20256	11 26 11
11 28 40	J1835-1115	16 15 13	18.9	143.1	-2.4		-21.6	9	20256	11 28 40
11 29 40	=1832-113	16 16 13	19.0	143.4	-2.3		-21.4	60	20271	11 28 41
11 29 40	HESSJ1832	16 16 13	21.0	143.3	-2.3		-21.4	-21	20271	No stop
11 31 40	---	16 18 14	21.2	143.8	-2.3		-21.1	99	20302	11 29 41
11 32 10	J1825-0737	16 18 44	23.5	145.0	-2.1		-20.3	8	20302	11 32 10
11 33 10	=1822-076	16 19 44	23.6	145.3	-2.1		-20.2	60	20317	11 32 11
11 33 10	HESSJ1832	16 19 44	21.3	144.1	-2.2		-20.9	-22	20317	No stop
11 35 10	---	16 21 44	21.5	144.6	-2.2		-20.6	98	20348	11 33 11
11 35 40	J1835-1115	16 22 14	19.5	144.8	-2.2		-20.7	9	20348	11 35 40
11 36 40	=1832-113	16 23 15	19.6	145.1	-2.2		-20.5	60	20364	11 35 41
11 36 40	HESSJ1832	16 23 15	21.6	145.0	-2.2		-20.4	-21	20364	No stop
11 38 40	---	16 25 15	21.8	145.5	-2.1		-20.2	99	20395	11 36 41
11 39 10	J1825-0737	16 25 45	24.1	146.8	-2.0		-19.4	8	20395	11 39 10
11 40 10	=1822-076	16 26 45	24.2	147.0	-2.0		-19.2	60	20410	11 39 11

Schedule for TORUN (Code Tr)
e-EVN: EM165F

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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 13 Nov 2024 Day 318 ---										
11 40 10	HESSJ1832	16 26 45	21.9	145.9	-2.1		-20.0	-22	20410	No stop
11 42 10	---	16 28 45	22.1	146.4	-2.1		-19.7	98	20441	11 40 11
11 42 40	J1835-1115	16 29 15	20.1	146.5	-2.1		-19.7	9	20441	11 42 40
11 43 40	=1832-113	16 30 16	20.2	146.8	-2.1		-19.6	60	20456	11 42 41
11 43 40	HESSJ1832	16 30 16	22.2	146.7	-2.1		-19.5	-21	20456	No stop
11 45 40	---	16 32 16	22.4	147.3	-2.0		-19.2	99	20487	11 43 41
11 46 10	J1825-0737	16 32 46	24.6	148.6	-1.9		-18.4	8	20487	11 46 10
11 47 10	=1822-076	16 33 46	24.7	148.9	-1.9		-18.3	60	20503	11 46 11
11 47 10	HESSJ1832	16 33 46	22.5	147.6	-2.0		-19.0	-22	20503	No stop
11 49 10	---	16 35 47	22.7	148.1	-2.0		-18.7	98	20534	11 47 11
11 49 40	J1835-1115	16 36 17	20.7	148.3	-2.0		-18.8	9	20534	11 49 40
11 50 40	=1832-113	16 37 17	20.8	148.5	-2.0		-18.6	60	20549	11 49 41
11 50 40	HESSJ1832	16 37 17	22.8	148.5	-1.9		-18.5	-21	20549	No stop
11 52 40	---	16 39 17	22.9	149.0	-1.9		-18.3	99	20580	11 50 41
11 53 10	J1825-0737	16 39 47	25.2	150.4	-1.8		-17.4	8	20580	11 53 10
11 54 10	=1822-076	16 40 47	25.2	150.7	-1.8		-17.3	60	20596	11 53 11
11 54 10	HESSJ1832	16 40 47	23.1	149.4	-1.9		-18.0	-22	20596	No stop
11 56 10	---	16 42 48	23.2	149.9	-1.9		-17.8	98	20627	11 54 11
11 56 40	J1835-1115	16 43 18	21.2	150.0	-1.9		-17.8	9	20627	11 56 40
11 57 40	=1832-113	16 44 18	21.3	150.3	-1.9		-17.7	60	20642	11 56 41
11 57 40	HESSJ1832	16 44 18	23.3	150.3	-1.8		-17.5	-21	20642	No stop
11 59 40	---	16 46 18	23.5	150.8	-1.8		-17.3	99	20673	11 57 41
12 00 10	J1825-0737	16 46 48	25.7	152.3	-1.7		-16.4	8	20673	12 00 10
12 01 10	=1822-076	16 47 49	25.8	152.5	-1.7		-16.2	60	20688	12 00 11
12 01 10	HESSJ1832	16 47 49	23.6	151.2	-1.8		-17.0	-22	20688	No stop
12 03 10	---	16 49 49	23.7	151.7	-1.7		-16.8	98	20719	12 01 11
12 03 40	J1835-1115	16 50 19	21.8	151.8	-1.8		-16.8	9	20719	12 03 40
12 04 40	=1832-113	16 51 19	21.8	152.0	-1.8		-16.7	60	20735	12 03 41
12 04 40	HESSJ1832	16 51 19	23.8	152.1	-1.7		-16.5	-21	20735	No stop
12 06 40	---	16 53 19	24.0	152.6	-1.7		-16.2	99	20766	12 04 41

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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 13 Nov 2024 Day 318 ---										
12 07 10	J1825-0737	16 53 50	26.2	154.1	-1.6		-15.3	8	20766	12 07 10
12 08 10	=1822-076	16 54 50	26.2	154.4	-1.5		-15.2	60	20781	12 07 11
12 08 10	HESSJ1832	16 54 50	24.1	153.0	-1.7		-16.0	-22	20781	No stop
12 10 10	---	16 56 50	24.2	153.5	-1.6		-15.7	98	20812	12 08 11
12 10 40	J1835-1115	16 57 20	22.2	153.6	-1.7		-15.8	9	20812	12 10 40
12 11 40	=1832-113	16 58 20	22.3	153.8	-1.6		-15.7	60	20827	12 10 41
12 11 40	HESSJ1832	16 58 20	24.3	153.9	-1.6		-15.5	-21	20827	No stop
12 13 40	---	17 00 21	24.4	154.5	-1.6		-15.2	99	20858	12 11 41
12 14 10	J1825-0737	17 00 51	26.6	156.0	-1.4		-14.3	8	20858	12 14 10
12 15 10	=1822-076	17 01 51	26.7	156.3	-1.4		-14.1	60	20874	12 14 11
12 16 40	J1751+0939	17 03 21	45.4	162.5	-0.8		-10.5	6	20874	12 16 40
12 20 40	=1749+096	17 07 22	45.6	163.9	-0.8		-9.7	240	20936	12 16 41
12 22 10	J1825-0737	17 08 52	27.1	158.2	-1.3		-13.0	7	20936	12 22 10
12 23 30	=1822-076	17 10 12	27.1	158.5	-1.3		-12.8	80	20956	12 22 11
12 23 30	HESSJ1832	17 10 12	25.0	157.1	-1.4		-13.7	-22	20956	No stop
12 25 30	---	17 12 13	25.2	157.6	-1.4		-13.4	98	20987	12 23 31
12 26 00	J1835-1115	17 12 43	23.2	157.5	-1.4		-13.5	9	20987	12 26 00
12 27 00	=1832-113	17 13 43	23.3	157.8	-1.4		-13.4	60	21003	12 26 01
12 27 00	HESSJ1832	17 13 43	25.2	158.0	-1.3		-13.2	-21	21003	No stop
12 29 00	---	17 15 43	25.4	158.5	-1.3		-12.9	99	21034	12 27 01
12 29 30	J1825-0737	17 16 13	27.5	160.2	-1.2		-11.9	8	21034	12 29 30
12 30 30	=1822-076	17 17 13	27.5	160.4	-1.2		-11.7	60	21049	12 29 31
12 30 30	HESSJ1832	17 17 13	25.4	158.9	-1.3		-12.6	-22	21049	No stop
12 32 30	---	17 19 14	25.6	159.5	-1.2		-12.3	98	21080	12 30 31
12 33 00	J1835-1115	17 19 44	23.6	159.3	-1.3		-12.5	9	21080	12 33 00
12 34 00	=1832-113	17 20 44	23.6	159.6	-1.3		-12.3	60	21095	12 33 01
12 34 00	HESSJ1832	17 20 44	25.6	159.9	-1.2		-12.1	-21	21095	No stop
12 36 00	---	17 22 44	25.7	160.4	-1.2		-11.8	99	21126	12 34 01
12 36 30	J1825-0737	17 23 14	27.8	162.1	-1.1		-10.7	8	21126	12 36 30
12 37 30	=1822-076	17 24 14	27.8	162.4	-1.0		-10.6	60	21142	12 36 31

Schedule for TORUN (Code Tr)

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e-EVN: EM165F

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

--- Wed 13 Nov 2024 Day 318 ---										
12 37 30	HESSJ1832	17 24 14	25.8	160.8	-1.2		-11.5	-21	21142	No stop
12 39 30	---	17 26 15	25.9	161.3	-1.1		-11.2	99	21173	12 37 31
12 40 00	J1835-1115	17 26 45	23.9	161.2	-1.2		-11.4	9	21173	12 40 00
12 41 00	=1832-113	17 27 45	24.0	161.5	-1.1		-11.2	60	21188	12 40 01
12 41 00	HESSJ1832	17 27 45	26.0	161.7	-1.1		-11.0	-21	21188	No stop
12 43 00	---	17 29 45	26.1	162.3	-1.1		-10.7	99	21219	12 41 01
12 43 30	J1825-0737	17 30 15	28.1	164.0	-0.9		-9.6	9	21219	12 43 30
12 44 30	=1822-076	17 31 16	28.2	164.3	-0.9		-9.4	60	21235	12 43 31
12 44 30	HESSJ1832	17 31 16	26.1	162.7	-1.0		-10.4	-21	21235	No stop
12 46 30	---	17 33 16	26.2	163.2	-1.0		-10.1	99	21265	12 44 31
12 47 00	J1835-1115	17 33 46	24.3	163.0	-1.0		-10.3	9	21265	12 47 00
12 48 00	=1832-113	17 34 46	24.3	163.3	-1.0		-10.1	60	21281	12 47 01
12 48 00	HESSJ1832	17 34 46	26.3	163.6	-1.0		-9.9	-21	21281	No stop
12 50 00	---	17 36 47	26.4	164.2	-1.0		-9.5	99	21312	12 48 01
12 50 30	J1825-0737	17 37 17	28.4	166.0	-0.8		-8.4	9	21312	12 50 30
12 51 30	=1822-076	17 38 17	28.4	166.3	-0.8		-8.3	60	21327	12 50 31
12 51 30	HESSJ1832	17 38 17	26.4	164.6	-0.9		-9.3	-21	21327	No stop
12 53 30	---	17 40 17	26.5	165.1	-0.9		-9.0	99	21358	12 51 31
12 54 00	J1835-1115	17 40 47	24.6	164.9	-0.9		-9.2	9	21358	12 54 00
12 55 00	=1832-113	17 41 47	24.6	165.2	-0.9		-9.0	60	21374	12 54 01
12 56 30	J1751+0939	17 43 18	46.5	176.6	-0.2		-2.1	-6	21374	12 56 30
13 00 00	=1749+096	17 46 48	46.5	177.9	-0.1		-1.3	204	21428	12 56 31

SETUP FILE INFORMATION:

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

==== Setup file: sess324.C2048

Setup group: 6	Station: TORUN	Total bit rate: 2048
Format: VDIF	Bits per sample: 2	Sample rate: 64.000
Number of channels: 16	DBE type: DBBC_DDC	Speedup factor: 1.00

Disk used to record data.

1st LO=	4200.00	4200.00	4200.00	4200.00	4200.00	4200.00	4200.00	4200.00	4200.00
	4200.00	4200.00	4200.00	4200.00	4200.00	4200.00	4200.00	4200.00	4200.00
Net SB=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
IF SB =	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U
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=	L	L	U	U	L	L	U	U	U
	L	L	U	U	L	L	U	U	U
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: 5 Setup file default. Used with PCAL = off

LO sum=	4830.49	4830.49	4830.49	4830.49	4894.49	4894.49	4894.49	4894.49
	4958.49	4958.49	4958.49	4958.49	5022.49	5022.49	5022.49	5022.49
BBC fr=	630.49	630.49	630.49	630.49	694.49	694.49	694.49	694.49
	758.49	758.49	758.49	758.49	822.49	822.49	822.49	822.49
Bandwd=	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00
	32.00	32.00	32.00	32.00	32.00	32.00	32.00	32.00

Matching frequency sets: 5

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)	(J2000)	(Date)	Error (mas)
* HESSJ1832	18 30 00.427854	* 18 32 45.154000	18 34 05.906839	0.00
	-09 24 11.40884	*-09 21 54.60000	-09 20 48.53030	0.00
1832-113	18 32 32.599242	* 18 35 19.575787	18 36 41.450947	0.15
* J1835-1115	-11 18 27.18008	*-11 15 59.31285	-11 14 48.21086	0.26
	rfc_2023c Petrov and Kovalev, in preparation 848 observations			
1822-076	18 22 54.910249	* 18 25 37.609542	18 26 57.333079	0.11
* J1825-0737	-07 39 15.96747	*-07 37 30.01355	-07 36 38.82100	0.15
	rfc_2023c Petrov and Kovalev, in preparation 1862 observations			
0202+149	02 02 07.396227	* 02 04 50.413895	02 06 12.569455	0.20
* J0204+1514	14 59 50.93938	* 15 14 11.04360	15 21 27.27294	0.33
J0204+15	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 35637 observations.			
0528+134	05 28 06.759216	* 05 30 56.416746	05 32 21.810948	0.21
* J0530+1331	13 29 42.28882	* 13 31 55.14948	13 33 08.24721	0.24
J0530+13	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 138236 observations.			
OJ287	08 51 57.250615	* 08 54 48.874927	08 56 14.283115	0.00
* J0854+2006	20 17 58.41740	* 20 06 30.64085	20 00 50.59562	0.00
0851+202	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			

J0854+20	GSFC 2016a X/S astro solution, 270807 observations.			
1222+216	12 22 23.408719	* 12 24 54.458404	12 26 08.572263	0.05
* J1224+2122	21 39 23.03695	* 21 22 46.38856	21 14 30.69131	0.09
J1224+21	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 386 observations.			
* 3C345	16 41 17.606229	* 16 42 58.809967	16 43 47.530635	0.79
J1642+3948	39 54 10.81492	* 39 48 36.99399	39 45 53.05933	0.59
1641+399	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc			
J1642+39	GSFC 2016a X/S astro solution, 53724 observations.			
1749+096	17 49 10.387930	* 17 51 32.818574	17 52 42.367887	0.00
* J1751+0939	09 39 42.82586	* 09 39 00.72841	09 38 41.56305	0.00
J1751+09	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 192391 observations.			
2136+141	21 36 37.412147	* 21 39 01.309269	21 40 12.597370	0.00
* J2139+1423	14 10 00.62101	* 14 23 35.99216	14 30 27.61604	0.00
J2139+14	/home/guest/rmc/SCHED/sched11.6/catalogs/sources.gsfc GSFC 2016a X/S astro solution, 53632 observations.			

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