

RadioAstron Sessions, 7/11 I 2013 r.

Użytkownik i hasło ftp dla logów i schedules: grt K0&th

ftp://webinet.asc.rssi.ru

Przykład dla log files: cd GRT_log_files/2013_01/2013_01_10_raes03jj

Przykład dla sched files: cd schedule/grtsched/RAES/re03jj

Observational code: raes02ad
Task: Hydroxyl maser observations
Start(UT): 07.01.2013 13:00:00
Stop(UT) : 07.01.2013 14:00:00
Band: LL
Source: CEP A
GRT: Zc(L), Ev(L), Tr(L)

Observational code: raes03jg
Task: AGN fringe survey
Start(UT): 08.01.2013 22:50:00
Stop(UT) : 08.01.2013 23:30:00
Band: CK
Source: 0648-165
GRT: Ev(C), Ys(C), Tr(C)

Observational code: raes02ae
Task: Hydroxyl maser observations
Start(UT): 07.01.2013 16:00:00
Stop(UT) : 07.01.2013 17:00:00
Band: LL
Source: CEP A
GRT: Zc(L), Ev(L), Tr(L)

Observational code: raes03jj
Task: AGN fringe survey
Start(UT): 10.01.2013 22:50:00
Stop(UT) : 10.01.2013 23:30:00
Band: KK
Source: 0648-165
GRT: Nt(K), Ro(K), Tr(K)

Observational code: raes02af
Task: H2O maser observations
Start(UT): 07.01.2013 19:00:00
Stop(UT) : 07.01.2013 20:00:00
Band: KK
Source: Orion
GRT: Ev(K), Ys(K), Nt(K), Tr(K)

Observational code: raes03jl
WSRT project: R13A/019
Task: AGN fringe survey
Start(UT): 11.01.2013 20:20:00
Stop(UT) : 11.01.2013 21:00:00
Band: CK
Source: 0743-006
GRT: Wb(C), Nt(K), Ev(C), Ro(K), Tr(C)

Observational code: raes06h
Task: pulsar observations
Start(UT): 08.01.2013 12:00:00
Stop(UT) : 08.01.2013 12:40:00
Band: LL
Source: B0329+54
GRT: Zc(L), Ev(L), Tr(L)

Observational code: raes03jm
Task: AGN fringe survey
Start(UT): 11.01.2013 21:50:00
Stop(UT) : 11.01.2013 22:30:00
Band: CK
Source: 0607-157
GRT: Nt(K), Ev(C), Ro(K), Tr(C)

Observational code: raes03jd
WSRT project: R13A/019
Task: AGN fringe survey
Start(UT): 08.01.2013 18:00:00
Stop(UT) : 08.01.2013 18:40:00
Band: CL
Source: 0609+413
GRT: Wb(L->C), Ev(C), Ys(C), Zc(L), Tr(L)

Observational code: raes03jn
Task: AGN fringe survey
Start(UT): 11.01.2013 22:50:00
Stop(UT) : 11.01.2013 23:30:00
Band: CK
Source: 0648-165
GRT: Nt(K), Ev(C), Ro(K), Tr(C)

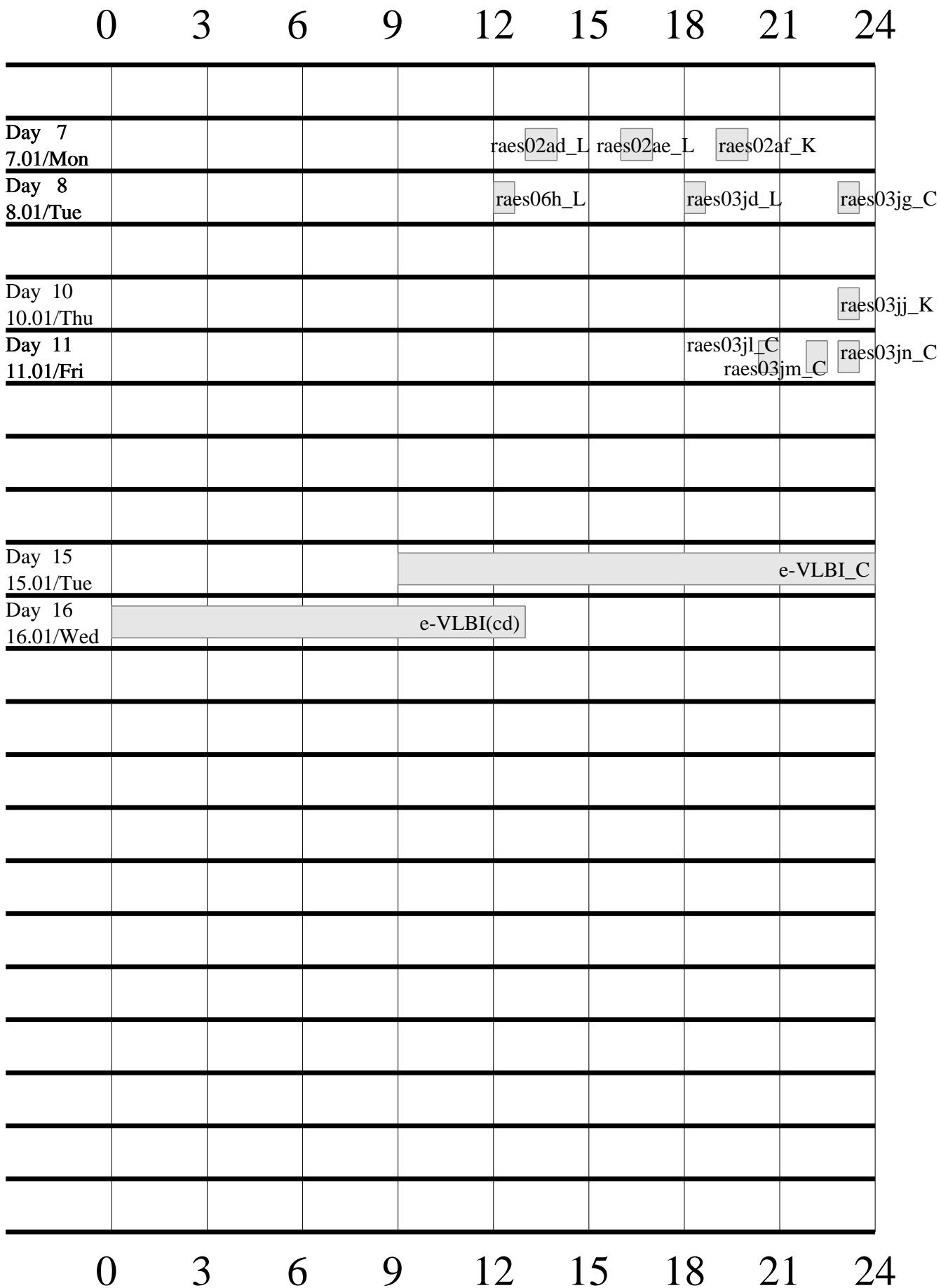
*** General comments: ***

All experiments are observed on the ground with 16 MHz wide IFs and 2 bit sampling.

Central frequencies:

P-band: 316.00 MHz (USB only)
L-band: 1668.00 MHz (USB and LSB)
C-band: 4836.00 MHz (USB and LSB)
K-band: 22236.00 MHz (USB and LSB)
=====

RadioAstron Schedule for Tr in Jan 2013



RADIOASTRON HYDROXYL MASER OBSERVATIONS

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Observing mode: L-band, dual-pol

Notes: L-band, Radioastron-compatible frequency setup
 P-CAL is OFF
 Note the new sky frequencies

Schedule for TORUM (Code Tr) Page 2

RadioAstron Hydroxyl maser observations

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

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

--- Mon 7 Jan 2013 Day 7 ---										
----- Please, make sure PCAL is OFF for CEPA maser observations. -----										
Next scan frequencies: 1668.00 1668.00 1668.00 1668.00										
Next BBC frequencies: 632.00 632.00 632.00 632.00										
Next scan bandwidths: 16.00 16.00 16.00 16.00										
13 00 00	CEPA	21 23 17	74.7	44.7	-1.6	-115.4	0	0	13 00 00	
13 09 30	---	21 32 48	75.7	42.7	-1.4	-119.4	570	18	13 00 01	
13 10 00	CEPA	21 33 18	75.7	42.6	-1.4	-119.6	24	18	13 10 00	
13 19 30	---	21 42 50	76.7	40.2	-1.2	-124.1	570	37	13 10 01	
13 20 00	CEPA	21 43 20	76.7	40.0	-1.2	-124.4	24	37	13 20 00	
13 29 30	---	21 52 51	77.6	37.0	-1.1	-129.4	570	55	13 20 01	
13 30 00	CEPA	21 53 21	77.7	36.8	-1.1	-129.7	24	55	13 30 00	
13 39 30	---	22 02 53	78.5	33.2	-0.9	-135.4	570	74	13 30 01	
13 40 00	CEPA	22 03 23	78.5	33.0	-0.9	-135.7	23	74	13 40 00	
13 49 30	---	22 12 55	79.3	28.6	-0.7	-142.1	570	92	13 40 01	
13 50 00	CEPA	22 13 25	79.3	28.3	-0.7	-142.5	23	92	13 50 00	
14 00 00	---	22 23 26	80.0	22.9	-0.6	-150.0	600	111	13 50 01	

SETUP FILE INFORMATION:

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

=====
Setup file: ra18cm2.set

Matching groups in /home/kirx/sched/catalogs/freq.dat:

tr18cm E-mail Borkowski 12Mar98, preferred alternative

Setup group: 1 Station: TORUN Total bit rate: 256
Format: MKIV1:4 Bits per sample: 2 Sample rate: 32.000
Number of channels: 4 DBE type: Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	2	1	2
BBC SB=	U	U	L	L
IF =	C	A	C	A

The following frequency sets based on these setups were used.

Frequency Set: 3 Setup file default. Used pcal sets: 1
LO sum= 1668.00 1668.00 1668.00 1668.00
BBC fr= 632.00 632.00 632.00 632.00
Bandwd= 16.00 16.00 16.00 16.00
Matching frequency sets: 3

The following pulse cal sets were used with this setup:

Pulse cal detection set: 1 PCAL = OFF
PCALXB1= S1 S2 S3 S4 OFF OFF OFF OFF
PCALXB2= M1 M2 M3 M4 OFF OFF OFF OFF
PCALFR1= 0 0 0 0 0 0 0 0
PCALFR2= 0 0 0 0 0 0 0 0

Track assignments are:

track1= 2, 18, 3, 19
barrel=roll_off

SOURCES USED IN RECORDING SCANS -- RadioAstron Hydroxyl maser observations

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
* CEPA	22 54 18.929252	* 22 56 17.870000	22 56 48.801266	0.00
	61 45 46.38208	* 62 01 48.60000	62 06 21.16351	0.00

RADIOASTRON HYDROXYL MASER OBSERVATIONS

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Observing mode: L-band, dual-pol

Notes: L-band, Radioastron-compatible frequency setup
 P-CAL is OFF
 Note the new sky frequencies

Schedule for TORUM (Code Tr) Page 2

RadioAstron Hydroxyl maser observations

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
-----
```

--- Mon 7 Jan 2013 Day 7 ---

----- Please, make sure PCAL is OFF for CEPA maser observations. -----

Next scan frequencies:	1668.00	1668.00	1668.00	1668.00						
Next BBC frequencies:	632.00	632.00	632.00	632.00						
Next scan bandwidths:	16.00	16.00	16.00	16.00						

16 00 00	CEPA	00 23 46	75.4	-43.4	1.4	118.1	0	0	16 00 00
16 09 30	---	00 33 18	74.4	-45.3	1.6	114.2	570	18	16 00 01
16 10 00	CEPA	00 33 48	74.3	-45.4	1.6	114.0	24	18	16 10 00
16 19 30	---	00 43 19	73.3	-46.9	1.8	110.4	570	37	16 10 01
16 20 00	CEPA	00 43 49	73.3	-47.0	1.8	110.3	24	37	16 20 00
16 29 30	---	00 53 21	72.2	-48.2	1.9	107.0	570	55	16 20 01
16 30 00	CEPA	00 53 51	72.1	-48.2	2.0	106.9	24	55	16 30 00
16 39 30	---	01 03 23	71.1	-49.1	2.1	103.9	570	74	16 30 01
16 40 00	CEPA	01 03 53	71.0	-49.2	2.1	103.7	24	74	16 40 00
16 49 30	---	01 13 24	69.9	-49.9	2.3	100.9	570	92	16 40 01
16 50 00	CEPA	01 13 54	69.9	-49.9	2.3	100.8	24	92	16 50 00
17 00 00	---	01 23 56	68.7	-50.5	2.5	98.1	600	111	16 50 01

SETUP FILE INFORMATION:

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

=====
Setup file: ra18cm2.set

Matching groups in /home/kirx/sched/catalogs/freq.dat:

tr18cm E-mail Borkowski 12Mar98, preferred alternative

Setup group: 1 Station: TORUN Total bit rate: 256
Format: MKIV1:4 Bits per sample: 2 Sample rate: 32.000
Number of channels: 4 DBE type: Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	2	1	2
BBC SB=	U	U	L	L
IF =	C	A	C	A

The following frequency sets based on these setups were used.

Frequency Set: 3 Setup file default. Used pcal sets: 1
LO sum= 1668.00 1668.00 1668.00 1668.00
BBC fr= 632.00 632.00 632.00 632.00
Bandwd= 16.00 16.00 16.00 16.00
Matching frequency sets: 3

The following pulse cal sets were used with this setup:

Pulse cal detection set: 1 PCAL = OFF
PCALXB1= S1 S2 S3 S4 OFF OFF OFF OFF
PCALXB2= M1 M2 M3 M4 OFF OFF OFF OFF
PCALFR1= 0 0 0 0 0 0 0 0
PCALFR2= 0 0 0 0 0 0 0 0

Track assignments are:

track1= 2, 18, 3, 19
barrel=roll_off

SOURCES USED IN RECORDING SCANS -- RadioAstron Hydroxyl maser observations

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)			Error
	(B1950)	(J2000)	(Date)	(mas)
* CEPA	22 54 18.929252	* 22 56 17.870000	22 56 48.798213	0.00
	61 45 46.38208	* 62 01 48.60000	62 06 21.14609	0.00
	From catalog imbedded in main SCHED input file.			
	OH maser; position from 2005ApJS..160..220F			
	0.958 scan and 2.875 baseline hours in setup: ra18cm2.set			
	Frequency sets (dups not shown): 1 2 3			

re02aftr

RADIOASTRON H2O MASER OBSERVATIONS

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Observing mode: K-band, dual-pol

Notes: K-band, Radioastron-compatible frequency setup
P-CAL is OFF
Note the new sky frequencies

Schedule for TORUM (Code Tr) Page 2

RadioAstron H2O maser observations

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

--- Mon 7 Jan 2013 Day 7 ---

----- Please, make sure PCAL is OFF for ORION maser observations. -----

Next scan frequencies:	22236.00	22236.00	22236.00	22236.00						
Next BBC frequencies:	736.00	736.00	736.00	736.00						
Next scan bandwidths:	16.00	16.00	16.00	16.00						
19 00 00	ORION	03 24 16	25.3	143.3	-2.2	-21.2	0	0	19 00 00	
19 09 30	---	03 33 47	26.1	145.7	-2.0	-19.9	570	18	19 00 01	
19 10 00	ORION	03 34 17	26.2	145.8	-2.0	-19.8	24	18	19 10 00	
19 19 30	---	03 43 49	26.9	148.4	-1.9	-18.4	570	37	19 10 01	
19 20 00	ORION	03 44 19	27.0	148.5	-1.9	-18.4	24	37	19 20 00	
19 29 30	---	03 53 51	27.7	151.0	-1.7	-17.0	570	55	19 20 01	
19 30 00	ORION	03 54 21	27.7	151.2	-1.7	-16.9	24	55	19 30 00	
19 39 30	---	04 03 52	28.4	153.7	-1.5	-15.5	570	74	19 30 01	
19 40 00	ORION	04 04 22	28.4	153.9	-1.5	-15.4	24	74	19 40 00	
19 49 30	---	04 13 54	29.0	156.5	-1.4	-13.9	570	92	19 40 01	
19 50 00	ORION	04 14 24	29.1	156.6	-1.4	-13.8	24	92	19 50 00	
20 00 00	---	04 24 26	29.6	159.4	-1.2	-12.2	600	111	19 50 01	

SETUP FILE INFORMATION:

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

==== Setup file: ra1cm2.set

--- WARNING --- This group does not match an entry in the frequency catalog.
This might be ok because the catalog is not complete.
But be very careful to be sure that the setup is correct.

```
Setup group:   3           Station: TORUN           Total bit rate: 256
Format: MKIV1:4       Bits per sample: 2       Sample rate: 32.000
Number of channels: 4   DBE type:                   Speedup factor: 1.00
```

Disk used to record data.

```
1st LO= 21500.00 21500.00 21500.00 21500.00
Net SB=      L      L      U      U
Pol.  =      RCP      LCP      RCP      LCP
BBC   =      1      2      1      2
BBC SB=      L      L      U      U
IF    =      C      A      C      A
```

The following frequency sets based on these setups were used.

```
Frequency Set:  4 Setup file default. Used pcal sets:  1
LO sum= 22236.00 22236.00 22236.00 22236.00
BBC fr=  736.00  736.00  736.00  736.00
Bandwd=  16.00  16.00  16.00  16.00
Matching frequency sets:  4
```

The following pulse cal sets were used with this setup:

```
Pulse cal detection set:  1 PCAL = OFF
PCALXB1=  S1  S2  S3  S4  OFF  OFF  OFF  OFF
PCALXB2=  M1  M2  M3  M4  OFF  OFF  OFF  OFF
PCALFR1=   0   0   0   0   0   0   0   0
PCALFR2=   0   0   0   0   0   0   0   0
```

Track assignments are:

```
track1=  2, 18,  3, 19
barrel=roll_off
```

SOURCES USED IN RECORDING SCANS --

RadioAstron H20 maser observations

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
* ORION	05 32 46.647965	* 05 35 14.125500	05 35 54.664115	0.00
	-05 24 29.93190	*-05 22 36.47500	-05 22 17.28459	0.00

RADIOASTRON PULSAR OBSERVATIONS

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Observing mode: L-band, dual-pol

Notes: L-band, Radioastron-compatible frequency setup
P-CAL is OFF
Note the new sky frequencies

Schedule for TORUM (Code Tr)

Page 2

RadioAstron pulsar observations

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 8 Jan 2013 Day 8 ---

----- Please make sure Pcal and noise diode are OFF -----

Next scan frequencies: 1668.00 1668.00 1668.00 1668.00
Next BBC frequencies: 632.00 632.00 632.00 632.00
Next scan bandwidths: 16.00 16.00 16.00 16.00

12 00 00	B0329+54	20 27 03	33.5	41.7	-7.1		-43.6	0	0	12 00 00
12 09 30	---	20 36 35	34.5	42.9	-7.0		-44.9	570	18	12 00 01
12 10 00	B0329+54	20 37 05	34.5	42.9	-6.9		-44.9	24	18	12 10 00
12 19 30	---	20 46 36	35.5	44.1	-6.8		-46.2	570	37	12 10 01
12 20 00	B0329+54	20 47 07	35.5	44.2	-6.8		-46.3	24	37	12 20 00
12 29 30	---	20 56 38	36.6	45.3	-6.6		-47.5	570	55	12 20 01
12 30 00	B0329+54	20 57 08	36.6	45.4	-6.6		-47.6	24	55	12 30 00
12 40 00	---	21 07 10	37.7	46.6	-6.4		-48.9	600	75	12 30 01

SETUP FILE INFORMATION:

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

=====
Setup file: ra18cm2.set

Matching groups in /home/kirx/sched/catalogs/freq.dat:

tr18cm E-mail Borkowski 12Mar98, preferred alternative

```
Setup group:   1            Station: TORUN            Total bit rate: 256
Format: MKIV1:4            Bits per sample: 2            Sample rate: 32.000
Number of channels: 4      DBE type:            Speedup factor: 1.00
```

Disk used to record data.

```
1st LO= 2300.00 2300.00 2300.00 2300.00
Net SB=        L        L        U        U
Pol.  =        RCP        LCP        RCP        LCP
BBC   =        1        2        1        2
BBC SB=        U        U        L        L
IF    =        C        A        C        A
```

The following frequency sets based on these setups were used.

```
Frequency Set: 3 Setup file default. Used pcal sets: 1
LO sum= 1668.00 1668.00 1668.00 1668.00
BBC fr= 632.00 632.00 632.00 632.00
Bandwd= 16.00 16.00 16.00 16.00
Matching frequency sets: 3
```

The following pulse cal sets were used with this setup:

```
Pulse cal detection set: 1 PCAL = OFF
PCALXB1= S1 S2 S3 S4 OFF OFF OFF OFF
PCALXB2= M1 M2 M3 M4 OFF OFF OFF OFF
PCALFR1= 0 0 0 0 0 0 0 0
PCALFR2= 0 0 0 0 0 0 0 0
```

Track assignments are:

```
track1= 2, 18, 3, 19
barrel=roll_off
```

SOURCES USED IN RECORDING SCANS --

RadioAstron pulsar observations

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
* B0329+54	03 29 11.066308	* 03 32 59.368000	03 34 02.145218	0.00
	54 24 37.47697	* 54 34 43.57000	54 37 29.90106	0.00

RADIOASTRON AGN FRINGE SURVEY

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Observing mode: C/L-band, dual-pol

Notes: C/L-band, Radioastron-compatible frequency setup
 P-CAL is ON
 Note the new sky frequencies

Schedule for TORUM (Code Tr)

Page 2

RadioAstron AGN fringe survey

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 8 Jan 2013 Day 8 ---

----- L-band VLBI scans -----

```
Next scan frequencies: 1668.00 1668.00 1668.00 1668.00
Next BBC frequencies:  632.00  632.00  632.00  632.00
Next scan bandwidths:  16.00   16.00   16.00   16.00

18 00 00 0609+413    02 28 02 51.0 84.0 -3.8   -52.7   0     0 18 00 00
18 09 30 ---          02 37 34 52.5 85.8 -3.6   -52.9  570   18 18 00 01

18 10 00 0609+413    02 38 04 52.5 85.9 -3.6   -53.0   24    18 18 10 00
18 19 30 ---          02 47 36 54.0 87.7 -3.4   -53.1  570   37 18 10 01

18 20 00 0609+413    02 48 06 54.0 87.8 -3.4   -53.1   24    37 18 20 00
18 29 30 ---          02 57 37 55.5 89.6 -3.3   -53.1  570   55 18 20 01

18 30 00 0609+413    02 58 07 55.5 89.7 -3.3   -53.1   24    55 18 30 00
18 40 00 ---          03 08 09 57.1 91.8 -3.1   -53.1  600   75 18 30 01
```

SETUP FILE INFORMATION:

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

=====
 Setup file: ra18cm2.set

Matching groups in /home/kirx/sched/catalogs/freq.dat:
 tr18cm E-mail Borkowski 12Mar98, preferred alternative

Setup group: 4 Station: TORUN Total bit rate: 256
 Format: MKIV1:4 Bits per sample: 2 Sample rate: 32.000
 Number of channels: 4 DBE type: Speedup factor: 1.00

Disk used to record data.

1st LO=	2300.00	2300.00	2300.00	2300.00
Net SB=	L	L	U	U
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	2	1	2
BBC SB=	U	U	L	L
IF =	C	A	C	A

The following frequency sets based on these setups were used.

Frequency Set: 4 Setup file default. Used pcal sets: 1
 LO sum= 1668.00 1668.00 1668.00 1668.00
 BBC fr= 632.00 632.00 632.00 632.00
 Bandwd= 16.00 16.00 16.00 16.00
 Matching frequency sets: 4

The following pulse cal sets were used with this setup:

Pulse cal detection set: 1 PCAL = 1MHZ
 PCALXB1= S1 S3 S1 S3 S1 S2 S3 S4
 PCALXB2= S2 S4 S2 S4 M1 M2 M3 M4
 PCALFR1= 1000 1000 13000 13000 0 0 0 0
 PCALFR2= 1000 1000 13000 13000 0 0 0 0

Track assignments are:

track1= 2, 18, 3, 19
 barrel=roll_off

SOURCES USED IN RECORDING SCANS -- RadioAstron AGN fringe survey

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
J0612+4122	06 09 18.652346	* 06 12 51.185240	06 13 49.527683	0.19
* 0609+413	41 23 25.85798	* 41 22 37.40811	41 22 17.12512	0.21

re03jgtr

RADIOASTRON AGN FRINGE SURVEY

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Fax: +7-495-3332378
Phone during observation: +7-915-1546281

Observing mode: C/K-band, dual-pol

Notes: C/K-band, Radioastron-compatible frequency setup
P-CAL is ON
Note the new sky frequencies

Schedule for TORUM (Code Tr) Page 2

RadioAstron AGN fringe survey

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

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

--- Tue 8 Jan 2013 Day 8 ---

----- C-band VLBI scans -----

Table with columns: Next scan frequencies, Next BBC frequencies, Next scan bandwidths, and a main data table with columns: Start UT, Source, LST, EL, AZ, HA, UP, ParA, Dwell, GBytes, TPStart, SYNC.

SETUP FILE INFORMATION:

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

==== Setup file: ra6cm2.set

Matching groups in /home/kirx/sched/catalogs/freq.dat:
tr6cm E-mail Borkowski 23Apr03 (CR 1May03)

Setup group: 2 Station: TORUN Total bit rate: 256
Format: MKIV1:4 Bits per sample: 2 Sample rate: 32.000
Number of channels: 4 DBE type: Speedup factor: 1.00

Disk used to record data.

1st LO=	4200.00	4200.00	4200.00	4200.00
Net SB=	L	L	U	U
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	2	1	2
BBC SB=	L	L	U	U
IF =	C	A	C	A

The following frequency sets based on these setups were used.

Frequency Set: 3 Setup file default. Used pcal sets: 1
LO sum= 4836.00 4836.00 4836.00 4836.00
BBC fr= 636.00 636.00 636.00 636.00
Bandwd= 16.00 16.00 16.00 16.00
Matching frequency sets: 3

The following pulse cal sets were used with this setup:

Pulse cal detection set: 1 PCAL = 1MHZ
PCALXB1= S1 S3 S1 S3 S1 S2 S3 S4
PCALXB2= S2 S4 S2 S4 M1 M2 M3 M4
PCALFR1= 1000 1000 13000 13000 0 0 0 0
PCALFR2= 1000 1000 13000 13000 0 0 0 0

Track assignments are:

track1= 2, 18, 3, 19
barrel=roll_off

SOURCES USED IN RECORDING SCANS --

RadioAstron AGN fringe survey

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)			Error (mas)
	(B1950)	(J2000)	(Date)	
J0650-1637	06 48 10.295572	* 06 50 24.581862	06 51 01.797828	0.10
* 0648-165	-16 34 05.88130	*-16 37 39.72548	-16 38 47.19428	0.10

re03jjtr

RADIOASTRON AGN FRINGE SURVEY

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Fax: +7-495-3332378 Phone during observation: +7-915-1546281

Observing mode: K-band, dual-pol

Notes: K-band, Radioastron-compatible frequency setup
P-CAL is ON
Note the new sky frequencies

Schedule for TORUM (Code Tr)

Page 2

RadioAstron AGN fringe survey

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 10 Jan 2013 Day 10 ---

----- K-band VLBI scans -----

Next scan frequencies:	22236.00	22236.00	22236.00	22236.00							
Next BBC frequencies:	736.00	736.00	736.00	736.00							
Next scan bandwidths:	16.00	16.00	16.00	16.00							
22 50 00	0648-165	07 26 43	19.8	189.1	0.6	5.7	0	0	22 50 00		
22 59 30	---	07 36 15	19.6	191.5	0.8	7.2	570	18	22 50 01		
23 00 00	0648-165	07 36 45	19.6	191.6	0.8	7.3	24	18	23 00 00		
23 09 30	---	07 46 16	19.2	194.0	0.9	8.7	570	37	23 00 01		
23 10 00	0648-165	07 46 46	19.2	194.1	0.9	8.8	24	37	23 10 00		
23 19 30	---	07 56 18	18.8	196.5	1.1	10.3	570	55	23 10 01		
23 20 00	0648-165	07 56 48	18.8	196.6	1.1	10.3	24	55	23 20 00		
23 30 00	---	08 06 50	18.4	199.1	1.3	11.9	600	75	23 20 01		

SETUP FILE INFORMATION:

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

=====
Setup file: ra1cm2.set

--- WARNING --- This group does not match an entry in the frequency catalog.
This might be ok because the catalog is not complete.
But be very careful to be sure that the setup is correct.

Setup group:	3	Station:	TORUN	Total bit rate:	256
Format:	MKIV1:4	Bits per sample:	2	Sample rate:	32.000
Number of channels:	4	DBE type:		Speedup factor:	1.00

Disk used to record data.

1st LO=	21500.00	21500.00	21500.00	21500.00
Net SB=	L	L	U	U
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	2	1	2
BBC SB=	L	L	U	U
IF =	C	A	C	A

The following frequency sets based on these setups were used.

Frequency Set:	3	Setup file default.	Used pcal sets:	1
LO sum=	22236.00	22236.00	22236.00	22236.00
BBC fr=	736.00	736.00	736.00	736.00
Bandwd=	16.00	16.00	16.00	16.00
Matching frequency sets:	3			

The following pulse cal sets were used with this setup:

Pulse cal detection set:	1	PCAL = 1MHZ
PCALXB1=	S1 S3 S1 S3 S1 S2 S3 S4	
PCALXB2=	S2 S4 S2 S4 M1 M2 M3 M4	
PCALFR1=	1000 1000 13000 13000 0 0 0 0	
PCALFR2=	1000 1000 13000 13000 0 0 0 0	

Track assignments are:

track1= 2, 18, 3, 19
barrel=roll_off

SOURCES USED IN RECORDING SCANS -- RadioAstron AGN fringe survey

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)			Error (mas)
	(B1950)	(J2000)	(Date)	
J0650-1637	06 48 10.295572	* 06 50 24.581862	06 51 01.822727	0.10
* 0648-165	-16 34 05.88130	*-16 37 39.72548	-16 38 47.69520	0.10

re03jltr

RADIOASTRON AGN FRINGE SURVEY

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Phone during observation: +7-915-1546281

Observing mode: C/K-band, dual-pol

Notes: C/K-band, Radioastron-compatible frequency setup
P-CAL is ON
Note the new sky frequencies

Schedule for TORUM (Code Tr)

Page 2

RadioAstron AGN fringe survey

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 11 Jan 2013 Day 11 ---

----- C-band VLBI scans -----

Next scan frequencies:	4836.00	4836.00	4836.00	4836.00						
Next BBC frequencies:	636.00	636.00	636.00	636.00						
Next scan bandwidths:	16.00	16.00	16.00	16.00						
20 20 00	0743-006	05 00 15	26.0	132.4	-2.8		-26.3	0	0	20 20 00
20 29 30	---	05 09 47	27.0	134.8	-2.6		-25.2	570	18	20 20 01
20 30 00	0743-006	05 10 17	27.1	134.9	-2.6		-25.2	24	18	20 30 00
20 39 30	---	05 19 48	28.1	137.4	-2.4		-24.0	570	37	20 30 01
20 40 00	0743-006	05 20 18	28.1	137.5	-2.4		-23.9	24	37	20 40 00
20 49 30	---	05 29 50	29.1	140.0	-2.3		-22.7	570	55	20 40 01
20 50 00	0743-006	05 30 20	29.1	140.1	-2.3		-22.6	24	55	20 50 00
21 00 00	---	05 40 22	30.1	142.8	-2.1		-21.3	600	75	20 50 01

SETUP FILE INFORMATION:

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

=====
Setup file: ra6cm2.set

Matching groups in /home/kirx/sched/catalogs/freq.dat:
tr6cm E-mail Borkowski 23Apr03 (CR 1May03)

Setup group: 1 Station: TORUN Total bit rate: 256
Format: MKIV1:4 Bits per sample: 2 Sample rate: 32.000
Number of channels: 4 DBE type: Speedup factor: 1.00

Disk used to record data.

1st LO=	4200.00	4200.00	4200.00	4200.00
Net SB=	L	L	U	U
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	2	1	2
BBC SB=	L	L	U	U
IF =	C	A	C	A

The following frequency sets based on these setups were used.

Frequency Set: 3 Setup file default. Used pcal sets: 1
LO sum= 4836.00 4836.00 4836.00 4836.00
BBC fr= 636.00 636.00 636.00 636.00
Bandwd= 16.00 16.00 16.00 16.00
Matching frequency sets: 3

The following pulse cal sets were used with this setup:

Pulse cal detection set: 1 PCAL = 1MHZ
PCALXB1= S1 S3 S1 S3 S1 S2 S3 S4
PCALXB2= S2 S4 S2 S4 M1 M2 M3 M4
PCALFR1= 1000 1000 13000 13000 0 0 0 0
PCALFR2= 1000 1000 13000 13000 0 0 0 0

Track assignments are:

track1= 2, 18, 3, 19
barrel=roll_off

SOURCES USED IN RECORDING SCANS -- RadioAstron AGN fringe survey

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)			Error (mas)
	(B1950)	(J2000)	(Date)	
J0745-0044	07 43 21.047496	* 07 45 54.082323	07 46 36.232980	0.10
* 0743-006	-00 36 55.80442	*-00 44 17.53994	-00 46 25.39063	0.11

RADIOASTRON AGN FRINGE SURVEY

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 Fax: +7-495-3332378
 Phone during observation: +7-915-1546281

Observing mode: C/K-band, dual-pol

Notes: C/K-band, Radioastron-compatible frequency setup
 P-CAL is ON
 Note the new sky frequencies

Schedule for TORUM (Code Tr) Page 2

RadioAstron AGN fringe survey

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 11 Jan 2013 Day 11 ---

----- C-band VLBI scans -----

Next scan frequencies:	4836.00	4836.00	4836.00	4836.00						
Next BBC frequencies:	636.00	636.00	636.00	636.00						
Next scan bandwidths:	16.00	16.00	16.00	16.00						
21 50 00	0607-157	06 30 30	21.0	185.2	0.3		3.2	0	0	21 50 00
21 59 30	---	06 40 01	20.9	187.7	0.5		4.8	570	18	21 50 01
22 00 00	0607-157	06 40 31	20.9	187.8	0.5		4.8	24	18	22 00 00
22 09 30	---	06 50 03	20.7	190.2	0.7		6.4	570	37	22 00 01
22 10 00	0607-157	06 50 33	20.6	190.4	0.7		6.4	24	37	22 10 00
22 19 30	---	07 00 05	20.4	192.8	0.8		7.9	570	55	22 10 01
22 20 00	0607-157	07 00 35	20.3	192.9	0.8		8.0	24	55	22 20 00
22 30 00	---	07 10 36	20.0	195.4	1.0		9.6	600	75	22 20 01

SETUP FILE INFORMATION:

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

=====
Setup file: ra6cm2.set

Matching groups in /home/kirx/sched/catalogs/freq.dat:
tr6cm E-mail Borkowski 23Apr03 (CR 1May03)

Setup group: 1 Station: TORUN Total bit rate: 256
Format: MKIV1:4 Bits per sample: 2 Sample rate: 32.000
Number of channels: 4 DBE type: Speedup factor: 1.00

Disk used to record data.

1st LO=	4200.00	4200.00	4200.00	4200.00
Net SB=	L	L	U	U
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	2	1	2
BBC SB=	L	L	U	U
IF =	C	A	C	A

The following frequency sets based on these setups were used.

Frequency Set: 2 Setup file default. Used pcal sets: 1
LO sum= 4836.00 4836.00 4836.00 4836.00
BBC fr= 636.00 636.00 636.00 636.00
Bandwd= 16.00 16.00 16.00 16.00
Matching frequency sets: 2

The following pulse cal sets were used with this setup:

Pulse cal detection set: 1 PCAL = 1MHZ
PCALXB1= S1 S3 S1 S3 S1 S2 S3 S4
PCALXB2= S2 S4 S2 S4 M1 M2 M3 M4
PCALFR1= 1000 1000 13000 13000 0 0 0 0
PCALFR2= 1000 1000 13000 13000 0 0 0 0

Track assignments are:

track1= 2, 18, 3, 19
barrel=roll_off

SOURCES USED IN RECORDING SCANS --

RadioAstron AGN fringe survey

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)		(Date)	Error
	(B1950)	(J2000)		(mas)
J0609-1542	06 07 25.981282	* 06 09 40.949536	06 10 18.303698	0.10
* 0607-157	-15 42 03.30592	*-15 42 40.67272	-15 43 02.92873	0.10

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 Fax: +7-495-3332378
 Phone during observation: +7-915-1546281

Observing mode: C/K-band, dual-pol

Notes: C/K-band, Radioastron-compatible frequency setup
 P-CAL is ON
 Note the new sky frequencies

Schedule for TORUM (Code Tr)

Page 2

RadioAstron AGN fringe survey

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 11 Jan 2013 Day 11 ---

----- C-band VLBI scans -----

Next scan frequencies:	4836.00	4836.00	4836.00	4836.00						
Next BBC frequencies:	636.00	636.00	636.00	636.00						
Next scan bandwidths:	16.00	16.00	16.00	16.00						
22 50 00	0648-165	07 30 40	19.7	190.1	0.7		6.3	0	0	22 50 00
22 59 30	---	07 40 11	19.5	192.5	0.8		7.8	570	18	22 50 01
23 00 00	0648-165	07 40 41	19.4	192.6	0.8		7.9	24	18	23 00 00
23 09 30	---	07 50 13	19.1	195.0	1.0		9.3	570	37	23 00 01
23 10 00	0648-165	07 50 43	19.1	195.1	1.0		9.4	24	37	23 10 00
23 19 30	---	08 00 15	18.7	197.5	1.2		10.9	570	55	23 10 01
23 20 00	0648-165	08 00 45	18.7	197.6	1.2		10.9	24	55	23 20 00
23 30 00	---	08 10 46	18.2	200.1	1.3		12.4	600	75	23 20 01

SETUP FILE INFORMATION:

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

=====
 Setup file: ra6cm2.set

Matching groups in /home/kirx/sched/catalogs/freq.dat:
 tr6cm E-mail Borkowski 23Apr03 (CR 1May03)

Setup group: 1 Station: TORUN Total bit rate: 256
 Format: MKIV1:4 Bits per sample: 2 Sample rate: 32.000
 Number of channels: 4 DBE type: Speedup factor: 1.00

Disk used to record data.

1st LO=	4200.00	4200.00	4200.00	4200.00
Net SB=	L	L	U	U
Pol. =	RCP	LCP	RCP	LCP
BBC =	1	2	1	2
BBC SB=	L	L	U	U
IF =	C	A	C	A

The following frequency sets based on these setups were used.

Frequency Set: 2 Setup file default. Used pcal sets: 1
 LO sum= 4836.00 4836.00 4836.00 4836.00
 BBC fr= 636.00 636.00 636.00 636.00
 Bandwd= 16.00 16.00 16.00 16.00
 Matching frequency sets: 2

The following pulse cal sets were used with this setup:

Pulse cal detection set: 1 PCAL = 1MHZ
 PCALXB1= S1 S3 S1 S3 S1 S2 S3 S4
 PCALXB2= S2 S4 S2 S4 M1 M2 M3 M4
 PCALFR1= 1000 1000 13000 13000 0 0 0 0
 PCALFR2= 1000 1000 13000 13000 0 0 0 0

Track assignments are:

track1= 2, 18, 3, 19
 barrel=roll_off

SOURCES USED IN RECORDING SCANS -- RadioAstron AGN fringe survey

Catalog positions marked with *.

Precession of date coordinates is based on stop time of first scan.

Names used in schedule marked with *.

Short names used in VLA and SNAP files marked with +.

Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900

No adjustments are made for rates (DRA, DDEC).

Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
J0650-1637	06 48 10.295572	* 06 50 24.581862	06 51 01.832772	0.10
* 0648-165	-16 34 05.88130	*-16 37 39.72548	-16 38 47.90682	0.10

e-VLBI Session, 15/16 I 2013 r. eo011b

EVN e-VLBI Session 13e01 15-16 January 2013
=====

Test start: UT 0900 15 Jan (Day 015)
Nominal start: UT 1300 15 Jan (Day 015)
Nominal stop: UT 1300 16 Jan (Day 016)

* SCHEDULE * Version 3.0 11 January 2013

CODE	BAND	POL.	Mb/s	TELESCOPES										DAY	UT-START	UT-STOP	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Test	6cm	L+R	1024*	Jb2	Wb14	Eb	On25	Mc	Nt	Tr	Ys	Sh	Hh[Ar]	015	0900(15/01)-1300(15/01)	Ar	UT 1100-1300 only
RSP07	6cm	L+R	1024*	---	----	Eb	----	Mc	Nt	--	Ys	--	Hh	--	015	1320(15/01)-1520(15/01)	Below elev. limit at other telescopes
EO011B	6cm	L+R	1024*	Jb2	Wb14	Eb	On25	Mc	Nt	Tr	Ys	--	--	015	1730(15/01)-2300(15/01)		
Test	6cm	L+R	1024*	Jb2	Wb14	Eb	On25	Mc	Nt	Tr	Ys	Sh	Hh	--	015	2300(15/01)-2330(15/01)	new job with Sh, Hh
EG063C	6cm	L+R	1024*	Jb2	Wb14	Eb	On25	Mc	Nt	Tr	Ys	Sh	Hh	--	015	2330(15/01)-0330(16/01)	
RSF07	6cm	L+R	1024*	Jb2	Wb14	Eb	On25	Mc	Nt	Tr	Ys	Sh(Hh)	--	016	0330(16/01)-0530(16/01)	Hh desirable	
EG063C	6cm	L+R	1024*	Jb2	Wb14	Eb	On25	Mc	Nt	Tr	Ys	--	--	Ar	016	0800(16/01)-1000(16/01)	

Comments:

-
- Where possible, stations will run at the maximum available bit-rate of 1024 Mbps.
Current restrictions are:
 Sh possibly limited to 256 Mbps
 Ar limited to 256 Mbps (increases to 512 Mbps for UT 0400-1000)
 - No MERLIN outstations (e.g. Cm) available this session

* PROJECT INFORMATION *

CODE	INVESTIGATOR	PROJECT	RA/DEC	POSSIBLE			PRIORITY/EMAIL CONTACT
				Hrs	UT RANGE		
=====	=====	=====	=====	=====	=====	=====	=====
RSP07	Perez-Torres	cal.J2223-2909	2223/-29	2.0	1320-1520	-	torres@iaa.es
EO011B	OBrien	Nova Mon 2012	0639/+05	7.0	1900-0200	3	tim.obrien@manchester.ac.uk
EG063C	Giroletti	HST-1	1230/+12	4.0	2330-0330	2	giroletti@ira.inaf.it
RSF07	Frey	J1418+3542	1418/+35	2.0	0030-1200	-	frey@freemail.hu
EG063C	Giroletti	HST-1	1230/+12	2.0	0800-1000	2	giroletti@ira.inaf.it

Possible trigger proposals

ET025	Tudose (+Hh)	X-ray binary	various	12.0	0000-2400	2	tudose@astron.nl
EM102	Miller-Jones	SS Cygni	2142/+43	6.0	0730-2030	1	james.miller-jones@curtin.edu.au

Scheduling EVN e-VLBI sessions

EVN e-VLBI sessions have a dual role: they support astronomical e-VLBI projects approved by the EVN Program Committee and also provide regular opportunities to test and develop the EVN e-VLBI capability. They are up to 24h in duration in order to support observations of sources at any Right Ascension. The WSRT full array will only be made available for astronomical projects; for test observations a single WSRT telescope will be used.

In the event that no suitable astronomical project is scheduled the runs will be reduced in duration and unused time reverts to the individual observatories for use by local programs. The final duration of the e-VLBI run will be decided at the latest by UT 1700 on the day before the start of the run.

There are 3 classes of e-VLBI astronomical observations:

Type 1: "normal" projects

Type 2: "triggered" projects - to be scheduled only in the event that some predefined astronomical conditions are met. The required UT time interval may not be known in advance.

Type 3: "short" (< 2h) observations (e.g. to test source compactness prior to a full proposal) which may be granted by the EVNPC Chair on request. Requests should be sent to the EVNPC Chair, with copies to the EVN Scheduler and JIVE (see below).

The EVN Scheduler makes a block schedule for each e-VLBI session according to the scientific merit of the type 1 proposals. This will be the default observing schedule in the case that no proposals of type 2 are triggered. Based on the block schedule, JIVE staff produce the actual schedule for each project to be observed during the e-VLBI sessions.

PIs of scheduled projects should contact JIVE staff immediately

Type 3 projects (short observations) are inserted by the EVN Scheduler in the block schedule at a later stage (up to 3 weeks prior to the start of each e-VLBI session) subject to approval by the EVN PC Chair and availability of the requested observing time. JIVE staff will make the actual schedule for these additional observations accordingly.

Trigger requests for proposals of type 2 should be sent by e-mail to the EVN PC Chair, with copies to the EVN Scheduler and JIVEEXPRES (see below). These trigger requests must be received no later than 0800 UT the day before the e-VLBI run. The email should provide evidence that the trigger criterion in the original proposal has been met and give the exact GST range and source position requested. All requested technical parameters must match those in the original proposal. The PC Chairman will evaluate the trigger request (and decide on priorities if more than one conflicting trigger request is received) and will inform the PI by 1700 UT whether their experiment is to be observed. The experiment will then be scheduled by JIVE staff in accordance with the instructions given in the original proposal. Stations must have the new schedule in hand by UT 0700 on the day that the e-VLBI session starts.

EVN PC Chair: Tom Muxlow (twbm@jb.man.ac.uk)

EVN Scheduler: Richard Porcas (porcas@mpifr-bonn.mpg.de)

JIVE: Bob Campbell (campbell@jive.nl), Zsolt Paragi (zparagi@jive.nl)

Proposals of type 2 may replace other, already-scheduled projects if they require the same UT time range, provided that they have higher priority, as determined by the EVNPC. Project priorities (1 = highest) are given on the project list on the schedule. Type 1 projects which are replaced by higher priority type 2 projects may be eligible for re-scheduling in a subsequent e-VLBI session.

eo011btr

E-EVN RUNS RSP07 (PEREZ-TORRES), EO011B (OBRIEN), EG063C (GIROLETTI)

PI: *Perez-Torres, OBrien, Gawronski*

Address: JIVE Oude Hoogeveensedijk 4 Dwingeloo Netherlands
 Phone: +31 521 596 536 EMAIL: zparagi@jive.nl
 Fax: +31 521 596 539 Phone during observation: +31 521 596 530

Observing mode: realtime e-vlbi

Notes: #####
 ##### Please, make sure PHASE CAL is OFF. #####
 #####

Schedule for TORUN (Code Tr) Page 2

e-EVN runs RSP07 (Perez-Torres), EO011B (OBrien), EG063C (Giroletti)

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 15 Jan 2013 Day 15 ---										
Next scan frequencies:		4942.49	4942.49	4942.49	4942.49	4974.49	4974.49	4974.49	4974.49	
		5006.49	5006.49	5006.49	5006.49	5038.49	5038.49	5038.49	5038.49	
Next BBC frequencies:		742.49	742.49	742.49	742.49	774.49	774.49	774.49	774.49	
		806.49	806.49	806.49	806.49	838.49	838.49	838.49	838.49	
Next scan bandwidths:		16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	
		16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	
09 00 00	2113+293	17 54 10	46.7	102.3	-3.4	-42.5	0	0	09 00 00	
09 15 00	---	18 09 12	48.9	105.9	-3.1	-41.6	900	116	09 00 01	
09 15 40	2113+293	18 09 52	49.0	106.0	-3.1	-41.6	34	116	09 15 40	
09 30 00	---	18 24 14	51.0	109.7	-2.9	-40.6	860	227	09 15 41	
09 30 40	2113+293	18 24 55	51.1	109.9	-2.9	-40.5	34	227	09 30 40	
09 45 00	---	18 39 17	53.1	113.8	-2.6	-39.2	860	338	09 30 41	
09 45 40	2113+293	18 39 57	53.2	114.0	-2.6	-39.1	34	338	09 45 40	
10 00 00	---	18 54 19	55.1	118.2	-2.4	-37.5	860	449	09 45 41	
10 03 00	3C454.3	18 57 20	31.2	105.2	-4.0	-37.1	75	449	10 03 00	
10 15 00	---	19 09 22	32.9	107.9	-3.8	-36.5	720	542	10 03 01	
10 15 40	3C454.3	19 10 02	33.0	108.1	-3.7	-36.5	34	542	10 15 40	
10 30 00	---	19 24 24	35.0	111.4	-3.5	-35.6	860	653	10 15 41	
10 30 40	3C454.3	19 25 04	35.1	111.6	-3.5	-35.6	34	653	10 30 40	
10 45 00	---	19 39 27	37.1	115.1	-3.3	-34.5	860	764	10 30 41	
10 45 40	3C454.3	19 40 07	37.2	115.2	-3.2	-34.4	34	764	10 45 40	
11 00 00	---	19 54 29	39.1	118.9	-3.0	-33.2	860	875	10 45 41	
11 08 00	1538+149	20 02 31	26.5	259.0	4.4	37.6	186	875	11 08 00	
11 15 00	---	20 09 32	25.5	260.5	4.5	37.8	420	929	11 08 01	
11 15 40	1538+149	20 10 12	25.4	260.6	4.5	37.8	34	929	11 15 40	
11 30 00	---	20 24 34	23.2	263.7	4.7	38.1	860	1040	11 15 41	

Schedule for TORUN (Code Tr)

Page 3

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
11 30 40	1538+149	20 25 14	23.2	263.8	4.7		38.1	34	1040	11 30 40
11 45 00	---	20 39 37	21.0	266.7	5.0		38.3	860	1151	11 30 41
11 45 40	1538+149	20 40 17	20.9	266.9	5.0		38.3	34	1151	11 45 40
12 00 00	---	20 54 39	18.7	269.8	5.2		38.4	860	1262	11 45 41
12 00 40	1538+149	20 55 19	18.6	269.9	5.2		38.4	34	1262	12 00 40
12 15 00	---	21 09 42	16.5	272.8	5.5		38.3	860	1373	12 00 41
12 15 40	1538+149	21 10 22	16.4	272.9	5.5		38.3	34	1373	12 15 40
12 30 00	---	21 24 44	14.2	275.7	5.7		38.2	860	1484	12 15 41
12 30 40	1538+149	21 25 24	14.1	275.9	5.7		38.1	34	1484	12 30 40
12 45 00	---	21 39 47	12.0	278.7	6.0		37.9	860	1595	12 30 41
12 45 40	1538+149	21 40 27	11.9	278.8	6.0		37.9	34	1595	12 45 40
13 00 00	---	21 54 49	9.8	281.6	6.2		37.5	860	1706	12 45 41
15 22 00	3C454.3	00 17 12	49.7	211.6	1.4		19.1	8257	1706	15 22 00
15 30 00	---	00 25 14	49.1	214.4	1.5		20.7	480	1768	15 22 01
15 30 40	3C454.3	00 25 54	49.0	214.6	1.5		20.8	34	1768	15 30 40
15 45 00	---	00 40 16	47.7	219.4	1.8		23.4	860	1879	15 30 41
15 45 40	3C454.3	00 40 56	47.6	219.6	1.8		23.5	34	1879	15 45 40
16 00 00	---	00 55 19	46.2	224.2	2.0		25.9	860	1990	15 45 41
16 00 40	3C454.3	00 55 59	46.1	224.4	2.0		26.0	34	1990	16 00 40
16 15 00	---	01 10 21	44.6	228.8	2.3		28.1	860	2101	16 00 41
16 15 40	3C454.3	01 11 01	44.5	229.0	2.3		28.2	34	2101	16 15 40
16 30 00	---	01 25 23	42.8	233.2	2.5		30.0	860	2211	16 15 41
16 30 40	3C454.3	01 26 04	42.7	233.4	2.5		30.1	34	2211	16 30 40
16 45 00	---	01 40 26	41.0	237.3	2.8		31.8	860	2322	16 30 41
16 45 40	3C454.3	01 41 06	40.9	237.5	2.8		31.8	34	2322	16 45 40
17 00 00	---	01 55 28	39.0	241.3	3.0		33.3	860	2433	16 45 41
17 06 00	0528+134	02 01 29	32.8	113.3	-3.5		-34.6	88	2433	17 06 00
17 15 00	---	02 10 31	34.1	115.5	-3.4		-33.9	540	2503	17 06 01
17 15 40	0528+134	02 11 11	34.2	115.6	-3.3		-33.8	34	2503	17 15 40
17 30 00	---	02 25 33	36.1	119.2	-3.1		-32.6	860	2614	17 15 41
17 32 00	J0645+0541	02 27 34	19.5	107.3	-4.3		-35.2	44	2614	17 32 00
17 37 00	=0643+057	02 32 35	20.2	108.4	-4.2		-34.9	300	2653	17 32 01

Schedule for TORUN (Code Tr)

Page 4

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
17 39 00	J0645+0541	02 34 35	20.5	108.8	-4.2		-34.8	114	2653	17 39 00
17 40 00	=0643+057	02 35 35	20.7	109.0	-4.2		-34.8	60	2660	17 39 01
17 40 00	NOVA-MON	02 35 35	21.7	110.3	-4.1		-34.5	-17	2660	No stop
17 43 00	---	02 38 35	22.1	110.9	-4.0		-34.3	163	2684	17 40 01
17 43 00	J0639+0601	02 38 35	22.3	111.0	-4.0		-34.3	-10	2684	No stop
17 44 20	---	02 39 56	22.5	111.3	-4.0		-34.2	70	2694	17 43 01
17 44 20	J0645+0541	02 39 56	21.3	110.0	-4.1		-34.5	-18	2694	No stop
17 45 20	=0643+057	02 40 56	21.4	110.2	-4.1		-34.5	42	2702	17 44 21
17 45 20	NOVA-MON	02 40 56	22.4	111.4	-4.0		-34.2	-17	2702	No stop
17 48 20	---	02 43 56	22.9	112.1	-3.9		-34.0	163	2725	17 45 21
17 48 50	J0639+0601	02 44 26	23.1	112.3	-3.9		-34.0	20	2725	17 48 50
17 49 50	---	02 45 27	23.3	112.5	-3.9		-33.9	60	2733	17 48 51
17 49 50	J0645+0541	02 45 27	22.0	111.2	-4.0		-34.2	-18	2733	No stop
17 50 50	=0643+057	02 46 27	22.2	111.4	-4.0		-34.2	42	2740	17 49 51
17 50 50	NOVA-MON	02 46 27	23.2	112.7	-3.9		-33.8	-17	2740	No stop
17 53 50	---	02 49 27	23.6	113.4	-3.8		-33.7	163	2764	17 50 51
17 53 50	J0639+0601	02 49 27	23.8	113.4	-3.8		-33.7	-10	2764	No stop
17 55 10	---	02 50 47	24.0	113.7	-3.8		-33.6	70	2774	17 53 51
17 55 10	J0645+0541	02 50 47	22.8	112.4	-3.9		-33.9	-18	2774	No stop
17 56 10	=0643+057	02 51 48	22.9	112.6	-3.9		-33.8	42	2782	17 55 11
17 56 10	NOVA-MON	02 51 48	24.0	113.9	-3.8		-33.5	-17	2782	No stop
17 59 10	---	02 54 48	24.4	114.6	-3.8		-33.3	163	2805	17 56 11
17 59 40	J0639+0601	02 55 18	24.6	114.7	-3.7		-33.3	20	2805	17 59 40
18 00 40	---	02 56 18	24.7	115.0	-3.7		-33.2	60	2813	17 59 41
18 00 40	J0645+0541	02 56 18	23.6	113.6	-3.8		-33.6	-17	2813	No stop
18 01 40	=0643+057	02 57 19	23.7	113.9	-3.8		-33.5	43	2820	18 00 41
18 01 40	NOVA-MON	02 57 19	24.7	115.1	-3.7		-33.1	-17	2820	No stop
18 04 40	---	03 00 19	25.1	115.8	-3.7		-32.9	163	2844	18 01 41
18 04 40	J0639+0601	03 00 19	25.3	115.9	-3.7		-32.9	-10	2844	No stop
18 06 00	---	03 01 39	25.5	116.2	-3.6		-32.8	70	2854	18 04 41
18 06 00	J0645+0541	03 01 39	24.3	114.9	-3.7		-33.2	-17	2854	No stop
18 07 00	=0643+057	03 02 39	24.4	115.1	-3.7		-33.1	43	2862	18 06 01

Schedule for TORUN (Code Tr)

Page 5

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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 LO sum (band edge).

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
18 07 00	NOVA-MON	03 02 39	25.4	116.4	-3.6		-32.7	-17	2862	No stop
18 10 00	---	03 05 40	25.8	117.1	-3.6		-32.5	163	2885	18 07 01
18 10 30	J0639+0601	03 06 10	26.1	117.2	-3.6		-32.5	20	2885	18 10 30
18 11 30	---	03 07 10	26.2	117.5	-3.5		-32.4	60	2893	18 10 31
18 11 30	J0645+0541	03 07 10	25.0	116.1	-3.7		-32.8	-17	2893	No stop
18 12 30	=0643+057	03 08 10	25.2	116.4	-3.6		-32.7	43	2900	18 11 31
18 12 30	NOVA-MON	03 08 10	26.2	117.7	-3.5		-32.3	-17	2900	No stop
18 15 30	---	03 11 11	26.6	118.4	-3.5		-32.1	163	2924	18 12 31
18 15 30	J0639+0601	03 11 11	26.7	118.4	-3.5		-32.1	-10	2924	No stop
18 16 50	---	03 12 31	26.9	118.7	-3.5		-32.0	70	2934	18 15 31
18 16 50	J0645+0541	03 12 31	25.8	117.4	-3.6		-32.4	-17	2934	No stop
18 17 50	=0643+057	03 13 31	25.9	117.6	-3.6		-32.3	43	2942	18 16 51
18 17 50	NOVA-MON	03 13 31	26.9	118.9	-3.4		-31.9	-17	2942	No stop
18 20 50	---	03 16 32	27.3	119.6	-3.4		-31.7	163	2965	18 17 51
18 21 20	J0639+0601	03 17 02	27.5	119.8	-3.4		-31.6	20	2965	18 21 20
18 22 20	---	03 18 02	27.6	120.0	-3.4		-31.5	60	2973	18 21 21
18 24 20	0528+134	03 20 02	42.6	134.1	-2.2		-26.3	50	2973	18 24 20
18 27 20	---	03 23 03	43.0	135.0	-2.1		-25.9	180	2996	18 24 21
18 29 20	J0645+0541	03 25 03	27.4	120.3	-3.4		-31.4	47	2996	18 29 20
18 30 20	=0643+057	03 26 03	27.5	120.6	-3.3		-31.3	60	3004	18 29 21
18 30 20	NOVA-MON	03 26 03	28.5	121.9	-3.2		-30.8	-17	3004	No stop
18 33 20	---	03 29 04	28.9	122.7	-3.2		-30.5	163	3027	18 30 21
18 33 20	J0639+0601	03 29 04	29.1	122.7	-3.2		-30.5	-10	3027	No stop
18 34 40	---	03 30 24	29.2	123.0	-3.2		-30.4	70	3037	18 33 21
18 34 40	J0645+0541	03 30 24	28.1	121.6	-3.3		-30.9	-17	3037	No stop
18 35 40	=0643+057	03 31 24	28.2	121.8	-3.3		-30.8	43	3045	18 34 41
18 35 40	NOVA-MON	03 31 24	29.2	123.2	-3.1		-30.3	-16	3045	No stop
18 38 40	---	03 34 25	29.6	124.0	-3.1		-30.0	164	3068	18 35 41
18 39 10	J0639+0601	03 34 55	29.8	124.2	-3.1		-30.0	20	3068	18 39 10
18 40 10	---	03 35 55	29.9	124.4	-3.1		-29.9	60	3076	18 39 11
18 40 10	J0645+0541	03 35 55	28.8	122.9	-3.2		-30.4	-17	3076	No stop
18 41 10	=0643+057	03 36 55	28.9	123.2	-3.2		-30.3	43	3084	18 40 11

Schedule for TORUN (Code Tr)

Page 6

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
18 41 10	NOVA-MON	03 36 55	29.9	124.6	-3.1		-29.8	-16	3084	No stop
18 44 10	---	03 39 56	30.2	125.3	-3.0		-29.5	164	3107	18 41 11
18 44 10	J0639+0601	03 39 56	30.4	125.4	-3.0		-29.5	-10	3107	No stop
18 45 30	---	03 41 16	30.6	125.7	-3.0		-29.3	70	3117	18 44 11
18 45 30	J0645+0541	03 41 16	29.5	124.3	-3.1		-29.9	-17	3117	No stop
18 46 30	=0643+057	03 42 16	29.6	124.5	-3.1		-29.8	43	3125	18 45 31
18 46 30	NOVA-MON	03 42 16	30.5	125.9	-3.0		-29.3	-16	3125	No stop
18 49 30	---	03 45 16	30.9	126.7	-2.9		-29.0	164	3148	18 46 31
18 50 00	J0639+0601	03 45 46	31.1	126.9	-2.9		-28.9	20	3148	18 50 00
18 51 00	---	03 46 47	31.2	127.1	-2.9		-28.8	60	3156	18 50 01
18 51 00	J0645+0541	03 46 47	30.1	125.6	-3.0		-29.4	-17	3156	No stop
18 52 00	=0643+057	03 47 47	30.3	125.9	-3.0		-29.3	43	3164	18 51 01
18 52 00	NOVA-MON	03 47 47	31.2	127.3	-2.9		-28.7	-16	3164	No stop
18 55 00	---	03 50 47	31.5	128.1	-2.8		-28.4	164	3187	18 52 01
18 55 00	J0639+0601	03 50 47	31.7	128.2	-2.8		-28.3	-10	3187	No stop
18 56 20	---	03 52 08	31.9	128.5	-2.8		-28.2	70	3197	18 55 01
18 56 20	J0645+0541	03 52 08	30.8	127.0	-2.9		-28.8	-17	3197	No stop
18 57 20	=0643+057	03 53 08	30.9	127.2	-2.9		-28.7	43	3205	18 56 21
18 57 20	NOVA-MON	03 53 08	31.8	128.7	-2.8		-28.1	-16	3205	No stop
19 00 20	---	03 56 08	32.2	129.5	-2.7		-27.8	164	3228	18 57 21
19 00 50	J0639+0601	03 56 38	32.4	129.7	-2.7		-27.7	20	3228	19 00 50
19 01 50	---	03 57 38	32.5	129.9	-2.7		-27.6	60	3236	19 00 51
19 01 50	J0645+0541	03 57 38	31.4	128.4	-2.8		-28.2	-17	3236	No stop
19 02 50	=0643+057	03 58 39	31.6	128.7	-2.8		-28.1	43	3244	19 01 51
19 02 50	NOVA-MON	03 58 39	32.5	130.1	-2.7		-27.5	-16	3244	No stop
19 05 50	---	04 01 39	32.8	130.9	-2.6		-27.1	164	3267	19 02 51
19 05 50	J0639+0601	04 01 39	33.0	131.0	-2.6		-27.1	-10	3267	No stop
19 07 10	---	04 02 59	33.1	131.3	-2.6		-27.0	70	3277	19 05 51
19 07 10	J0645+0541	04 02 59	32.1	129.8	-2.7		-27.6	-17	3277	No stop
19 08 10	=0643+057	04 03 59	32.2	130.0	-2.7		-27.5	43	3285	19 07 11

Schedule for TORUN (Code Tr)

Page 7

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
19 08 10	NOVA-MON	04 03 59	33.1	131.5	-2.6		-26.9	-16	3285	No stop
19 11 10	---	04 07 00	33.4	132.3	-2.6		-26.5	164	3308	19 08 11
19 11 40	J0639+0601	04 07 30	33.6	132.5	-2.5		-26.4	20	3308	19 11 40
19 12 40	---	04 08 30	33.7	132.8	-2.5		-26.3	60	3316	19 11 41
19 14 40	0528+134	04 10 31	47.3	150.2	-1.4		-17.9	56	3316	19 14 40
19 17 40	---	04 13 31	47.5	151.2	-1.3		-17.3	180	3339	19 14 41
19 19 40	J0645+0541	04 15 31	33.5	133.1	-2.5		-26.1	53	3339	19 19 40
19 20 40	=0643+057	04 16 32	33.6	133.4	-2.5		-26.0	60	3347	19 19 41
19 20 40	NOVA-MON	04 16 32	34.4	134.9	-2.4		-25.3	-16	3347	No stop
19 23 40	---	04 19 32	34.7	135.7	-2.3		-24.9	164	3370	19 20 41
19 23 40	J0639+0601	04 19 32	34.9	135.8	-2.3		-24.9	-10	3370	No stop
19 25 00	---	04 20 52	35.1	136.2	-2.3		-24.7	70	3380	19 23 41
19 25 00	J0645+0541	04 20 52	34.0	134.5	-2.4		-25.5	-16	3380	No stop
19 26 00	=0643+057	04 21 52	34.2	134.8	-2.4		-25.4	44	3388	19 25 01
19 26 00	NOVA-MON	04 21 52	35.0	136.4	-2.3		-24.6	-16	3388	No stop
19 29 00	---	04 24 53	35.3	137.2	-2.3		-24.2	164	3411	19 26 01
19 29 30	J0639+0601	04 25 23	35.5	137.4	-2.2		-24.1	20	3411	19 29 30
19 30 30	---	04 26 23	35.6	137.7	-2.2		-24.0	60	3419	19 29 31
19 30 30	J0645+0541	04 26 23	34.6	136.0	-2.3		-24.8	-16	3419	No stop
19 31 30	=0643+057	04 27 23	34.7	136.3	-2.3		-24.6	44	3427	19 30 31
19 31 30	NOVA-MON	04 27 23	35.6	137.9	-2.2		-23.9	-16	3427	No stop
19 34 30	---	04 30 24	35.9	138.7	-2.2		-23.5	164	3450	19 31 31
19 34 30	J0639+0601	04 30 24	36.0	138.8	-2.2		-23.4	-10	3450	No stop
19 35 50	---	04 31 44	36.2	139.2	-2.1		-23.2	70	3460	19 34 31
19 35 50	J0645+0541	04 31 44	35.2	137.5	-2.2		-24.1	-16	3460	No stop
19 36 50	=0643+057	04 32 44	35.3	137.8	-2.2		-23.9	44	3468	19 35 51
19 36 50	NOVA-MON	04 32 44	36.1	139.4	-2.1		-23.1	-17	3468	No stop
19 39 50	---	04 35 45	36.4	140.3	-2.1		-22.7	163	3491	19 36 51
19 40 20	J0639+0601	04 36 15	36.6	140.5	-2.1		-22.6	20	3491	19 40 20
19 41 20	---	04 37 15	36.7	140.8	-2.0		-22.4	60	3499	19 40 21

Schedule for TORUN (Code Tr)

Page 8

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
19 41 20	J0645+0541	04 37 15	35.7	139.1	-2.2		-23.3	-17	3499	No stop
19 42 20	=0643+057	04 38 15	35.8	139.3	-2.1		-23.2	43	3507	19 41 21
19 42 20	NOVA-MON	04 38 15	36.6	141.0	-2.0		-22.3	-17	3507	No stop
19 45 20	---	04 41 16	36.9	141.8	-2.0		-21.9	163	3530	19 42 21
19 45 20	J0639+0601	04 41 16	37.1	141.9	-2.0		-21.9	-10	3530	No stop
19 46 40	---	04 42 36	37.2	142.3	-2.0		-21.7	70	3540	19 45 21
19 46 40	J0645+0541	04 42 36	36.3	140.6	-2.1		-22.5	-17	3540	No stop
19 47 40	=0643+057	04 43 36	36.3	140.9	-2.0		-22.4	43	3548	19 46 41
19 47 40	NOVA-MON	04 43 36	37.1	142.5	-1.9		-21.5	-17	3548	No stop
19 50 40	---	04 46 36	37.4	143.4	-1.9		-21.1	163	3571	19 47 41
19 51 10	J0639+0601	04 47 07	37.6	143.6	-1.9		-21.0	20	3571	19 51 10
19 52 10	---	04 48 07	37.7	143.9	-1.9		-20.8	60	3579	19 51 11
19 52 10	J0645+0541	04 48 07	36.8	142.1	-2.0		-21.7	-17	3579	No stop
19 53 10	=0643+057	04 49 07	36.9	142.4	-2.0		-21.6	43	3587	19 52 11
19 53 10	NOVA-MON	04 49 07	37.6	144.1	-1.9		-20.7	-17	3587	No stop
19 56 10	---	04 52 07	37.9	145.0	-1.8		-20.2	163	3610	19 53 11
19 56 10	J0639+0601	04 52 07	38.0	145.1	-1.8		-20.2	-10	3610	No stop
19 57 30	---	04 53 28	38.1	145.5	-1.8		-20.0	70	3620	19 56 11
19 57 30	J0645+0541	04 53 28	37.3	143.7	-1.9		-20.9	-17	3620	No stop
19 58 30	=0643+057	04 54 28	37.3	144.0	-1.9		-20.8	43	3628	19 57 31
19 58 30	NOVA-MON	04 54 28	38.1	145.7	-1.8		-19.9	-17	3628	No stop
20 01 30	---	04 57 28	38.3	146.6	-1.7		-19.4	163	3651	19 58 31
20 02 00	J0639+0601	04 57 58	38.5	146.9	-1.7		-19.3	20	3651	20 02 00
20 03 00	---	04 58 58	38.6	147.2	-1.7		-19.1	60	3659	20 02 01
20 05 00	0528+134	05 00 59	50.0	168.3	-0.5		-7.2	63	3659	20 05 00
20 08 00	---	05 03 59	50.1	169.5	-0.5		-6.5	180	3682	20 05 01
20 10 00	J0645+0541	05 06 00	38.3	147.4	-1.7		-19.0	60	3682	20 10 00
20 11 00	=0643+057	05 07 00	38.4	147.7	-1.7		-18.8	60	3690	20 10 01
20 11 00	NOVA-MON	05 07 00	39.1	149.5	-1.6		-17.9	-17	3690	No stop
20 14 00	---	05 10 00	39.3	150.4	-1.5		-17.3	163	3713	20 11 01

Schedule for TORUN (Code Tr)

Page 9

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
20 14 00	J0639+0601	05 10 00	39.5	150.5	-1.5		-17.3	-10	3713	No stop
20 15 20	---	05 11 21	39.6	150.9	-1.5		-17.1	70	3724	20 14 01
20 15 20	J0645+0541	05 11 21	38.7	149.0	-1.6		-18.1	-17	3724	No stop
20 16 20	=0643+057	05 12 21	38.8	149.3	-1.6		-17.9	43	3731	20 15 21
20 16 20	NOVA-MON	05 12 21	39.5	151.1	-1.5		-16.9	-17	3731	No stop
20 19 20	---	05 15 21	39.7	152.1	-1.4		-16.4	163	3755	20 16 21
20 19 50	J0639+0601	05 15 51	39.9	152.3	-1.4		-16.3	20	3755	20 19 50
20 20 50	---	05 16 51	40.0	152.6	-1.4		-16.1	60	3762	20 19 51
20 20 50	J0645+0541	05 16 51	39.2	150.7	-1.5		-17.2	-17	3762	No stop
20 21 50	=0643+057	05 17 52	39.2	151.0	-1.5		-17.0	43	3770	20 20 51
20 21 50	NOVA-MON	05 17 52	39.9	152.8	-1.4		-16.0	-17	3770	No stop
20 24 50	---	05 20 52	40.1	153.8	-1.3		-15.5	163	3793	20 21 51
20 24 50	J0639+0601	05 20 52	40.2	153.9	-1.3		-15.4	-10	3793	No stop
20 26 10	---	05 22 12	40.3	154.3	-1.3		-15.2	70	3804	20 24 51
20 26 10	J0645+0541	05 22 12	39.5	152.3	-1.4		-16.3	-17	3804	No stop
20 27 10	=0643+057	05 23 12	39.6	152.7	-1.4		-16.1	43	3811	20 26 11
20 27 10	NOVA-MON	05 23 12	40.2	154.5	-1.3		-15.1	-17	3811	No stop
20 30 10	---	05 26 13	40.4	155.5	-1.2		-14.5	163	3835	20 27 11
20 30 40	J0639+0601	05 26 43	40.6	155.7	-1.2		-14.4	20	3835	20 30 40
20 31 40	---	05 27 43	40.7	156.1	-1.2		-14.2	60	3842	20 30 41
20 31 40	J0645+0541	05 27 43	39.9	154.1	-1.3		-15.3	-17	3842	No stop
20 32 40	=0643+057	05 28 43	40.0	154.4	-1.3		-15.1	43	3850	20 31 41
20 32 40	NOVA-MON	05 28 43	40.6	156.2	-1.2		-14.1	-17	3850	No stop
20 35 40	---	05 31 44	40.7	157.2	-1.1		-13.5	163	3873	20 32 41
20 35 40	J0639+0601	05 31 44	40.9	157.3	-1.1		-13.5	-10	3873	No stop
20 37 00	---	05 33 04	41.0	157.8	-1.1		-13.2	70	3884	20 35 41
20 37 00	J0645+0541	05 33 04	40.3	155.7	-1.2		-14.4	-17	3884	No stop
20 38 00	=0643+057	05 34 04	40.3	156.1	-1.2		-14.2	43	3891	20 37 01
20 38 00	NOVA-MON	05 34 04	40.9	158.0	-1.1		-13.1	-18	3891	No stop
20 41 00	---	05 37 05	41.0	158.9	-1.1		-12.5	162	3915	20 38 01

Schedule for TORUN (Code Tr)

Page 10

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
20 41 30	J0639+0601	05 37 35	41.2	159.2	-1.0		-12.4	20	3915	20 41 30
20 42 30	---	05 38 35	41.3	159.5	-1.0		-12.2	60	3922	20 41 31
20 42 30	J0645+0541	05 38 35	40.6	157.5	-1.1		-13.4	-18	3922	No stop
20 43 30	=0643+057	05 39 35	40.6	157.8	-1.1		-13.2	42	3930	20 42 31
20 43 30	NOVA-MON	05 39 35	41.2	159.7	-1.0		-12.1	-18	3930	No stop
20 46 30	---	05 42 36	41.3	160.7	-1.0		-11.5	162	3953	20 43 31
20 46 30	J0639+0601	05 42 36	41.5	160.8	-1.0		-11.4	-10	3953	No stop
20 47 50	---	05 43 56	41.5	161.3	-0.9		-11.2	70	3964	20 46 31
20 47 50	J0645+0541	05 43 56	40.9	159.2	-1.0		-12.4	-18	3964	No stop
20 48 50	=0643+057	05 44 56	40.9	159.5	-1.0		-12.2	42	3971	20 47 51
20 48 50	NOVA-MON	05 44 56	41.4	161.5	-0.9		-11.1	-18	3971	No stop
20 51 50	---	05 47 57	41.6	162.4	-0.9		-10.5	162	3995	20 48 51
20 52 20	J0639+0601	05 48 27	41.8	162.8	-0.9		-10.3	20	3995	20 52 20
20 53 20	---	05 49 27	41.8	163.1	-0.8		-10.1	60	4002	20 52 21
20 55 20	0528+134	05 51 27	50.2	187.5	0.3		4.6	57	4002	20 55 20
20 58 20	---	05 54 28	50.2	188.7	0.4		5.3	180	4026	20 55 21
21 00 20	J0645+0541	05 56 28	41.5	163.3	-0.8		-10.0	54	4026	21 00 20
21 01 20	=0643+057	05 57 28	41.5	163.6	-0.8		-9.8	60	4033	21 00 21
21 01 20	NOVA-MON	05 57 28	42.0	165.6	-0.7		-8.6	-18	4033	No stop
21 04 20	---	06 00 29	42.1	166.6	-0.7		-8.1	162	4057	21 01 21
21 04 20	J0639+0601	06 00 29	42.2	166.7	-0.7		-8.0	-9	4057	No stop
21 05 40	---	06 01 49	42.3	167.2	-0.6		-7.7	71	4067	21 04 21
21 05 40	J0645+0541	06 01 49	41.7	165.0	-0.7		-9.0	-18	4067	No stop
21 06 40	=0643+057	06 02 49	41.7	165.4	-0.7		-8.8	42	4075	21 05 41
21 06 40	NOVA-MON	06 02 49	42.2	167.4	-0.6		-7.6	-18	4075	No stop
21 09 40	---	06 05 49	42.3	168.4	-0.6		-7.0	162	4098	21 06 41
21 10 10	J0639+0601	06 06 20	42.4	168.7	-0.6		-6.8	21	4098	21 10 10
21 11 10	---	06 07 20	42.4	169.0	-0.5		-6.6	60	4106	21 10 11
21 11 10	J0645+0541	06 07 20	41.9	166.8	-0.7		-7.9	-18	4106	No stop
21 12 10	=0643+057	06 08 20	41.9	167.2	-0.6		-7.7	42	4113	21 11 11

Schedule for TORUN (Code Tr)

Page 11

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
21 12 10	NOVA-MON	06 08 20	42.3	169.2	-0.5		-6.5	-18	4113	No stop
21 15 10	---	06 11 20	42.4	170.2	-0.5		-5.9	162	4137	21 12 11
21 15 10	J0639+0601	06 11 20	42.6	170.4	-0.5		-5.8	-9	4137	No stop
21 16 30	---	06 12 41	42.6	170.8	-0.5		-5.5	71	4147	21 15 11
21 16 30	J0645+0541	06 12 41	42.1	168.6	-0.6		-6.8	-18	4147	No stop
21 17 30	=0643+057	06 13 41	42.1	169.0	-0.5		-6.6	42	4155	21 16 31
21 17 30	NOVA-MON	06 13 41	42.5	171.0	-0.4		-5.4	-18	4155	No stop
21 20 30	---	06 16 41	42.5	172.0	-0.4		-4.8	162	4178	21 17 31
21 21 00	J0639+0601	06 17 11	42.7	172.3	-0.4		-4.6	21	4178	21 21 00
21 22 00	---	06 18 11	42.7	172.7	-0.4		-4.4	60	4186	21 21 01
21 22 00	J0645+0541	06 18 11	42.2	170.5	-0.5		-5.7	-18	4186	No stop
21 23 00	=0643+057	06 19 12	42.2	170.8	-0.5		-5.5	42	4193	21 22 01
21 23 00	NOVA-MON	06 19 12	42.6	172.8	-0.4		-4.3	-18	4193	No stop
21 26 00	---	06 22 12	42.6	173.8	-0.3		-3.7	162	4217	21 23 01
21 26 00	J0639+0601	06 22 12	42.8	174.0	-0.3		-3.6	-9	4217	No stop
21 27 20	---	06 23 32	42.8	174.5	-0.3		-3.3	71	4227	21 26 01
21 27 20	J0645+0541	06 23 32	42.3	172.3	-0.4		-4.7	-18	4227	No stop
21 28 20	=0643+057	06 24 33	42.4	172.6	-0.4		-4.5	42	4235	21 27 21
21 28 20	NOVA-MON	06 24 33	42.7	174.6	-0.3		-3.2	-18	4235	No stop
21 31 20	---	06 27 33	42.7	175.7	-0.2		-2.6	162	4258	21 28 21
21 31 50	J0639+0601	06 28 03	42.9	176.0	-0.2		-2.4	21	4258	21 31 50
21 32 50	---	06 29 03	42.9	176.3	-0.2		-2.2	60	4266	21 31 51
21 32 50	J0645+0541	06 29 03	42.4	174.1	-0.3		-3.6	-18	4266	No stop
21 33 50	=0643+057	06 30 03	42.5	174.4	-0.3		-3.3	42	4273	21 32 51
21 33 50	NOVA-MON	06 30 03	42.7	176.5	-0.2		-2.1	-18	4273	No stop
21 36 50	---	06 33 04	42.8	177.5	-0.1		-1.5	162	4297	21 33 51
21 36 50	J0639+0601	06 33 04	42.9	177.7	-0.1		-1.4	-9	4297	No stop
21 38 10	---	06 34 24	42.9	178.2	-0.1		-1.1	71	4307	21 36 51
21 38 10	J0645+0541	06 34 24	42.5	175.9	-0.2		-2.5	-18	4307	No stop
21 39 10	=0643+057	06 35 24	42.5	176.2	-0.2		-2.3	42	4315	21 38 11

Schedule for TORUN (Code Tr)

Page 12

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
21 39 10	NOVA-MON	06 35 24	42.8	178.3	-0.1		-1.0	-18	4315	No stop
21 42 10	---	06 38 25	42.8	179.3	-0.0		-0.4	162	4338	21 39 11
21 42 40	J0639+0601	06 38 55	42.9	179.7	-0.0		-0.2	21	4338	21 42 40
21 43 40	---	06 39 55	42.9	180.0	0.0		0.0	60	4346	21 42 41
21 45 40	0528+134	06 41 55	48.1	206.0	1.2		15.7	54	4346	21 45 40
21 48 40	---	06 44 56	47.9	207.1	1.2		16.3	180	4369	21 45 41
21 50 40	J0645+0541	06 46 56	42.6	180.1	0.0		0.1	51	4369	21 50 40
21 51 40	=0643+057	06 47 56	42.6	180.5	0.0		0.3	60	4376	21 50 41
21 51 40	NOVA-MON	06 47 56	42.8	182.6	0.1		1.5	-18	4376	No stop
21 54 40	---	06 50 57	42.7	183.6	0.2		2.2	162	4400	21 51 41
21 54 40	J0639+0601	06 50 57	42.9	183.8	0.2		2.3	-9	4400	No stop
21 56 00	---	06 52 17	42.8	184.2	0.2		2.5	71	4410	21 54 41
21 56 00	J0645+0541	06 52 17	42.6	181.9	0.1		1.2	-18	4410	No stop
21 57 00	=0643+057	06 53 17	42.6	182.3	0.1		1.4	42	4418	21 56 01
21 57 00	NOVA-MON	06 53 17	42.7	184.4	0.2		2.6	-18	4418	No stop
22 00 00	---	06 56 18	42.7	185.4	0.3		3.2	162	4441	21 57 01
22 00 30	J0639+0601	06 56 48	42.8	185.7	0.3		3.5	21	4441	22 00 30
22 01 30	---	06 57 48	42.8	186.1	0.3		3.7	60	4449	22 00 31
22 01 30	J0645+0541	06 57 48	42.5	183.8	0.2		2.3	-18	4449	No stop
22 02 30	=0643+057	06 58 48	42.5	184.1	0.2		2.5	42	4456	22 01 31
22 02 30	NOVA-MON	06 58 48	42.6	186.2	0.3		3.8	-18	4456	No stop
22 05 30	---	07 01 49	42.6	187.2	0.4		4.4	162	4480	22 02 31
22 05 30	J0639+0601	07 01 49	42.7	187.4	0.4		4.5	-9	4480	No stop
22 06 50	---	07 03 09	42.7	187.9	0.4		4.8	71	4490	22 05 31
22 06 50	J0645+0541	07 03 09	42.5	185.6	0.3		3.4	-18	4490	No stop
22 07 50	=0643+057	07 04 09	42.4	185.9	0.3		3.6	42	4498	22 06 51
22 07 50	NOVA-MON	07 04 09	42.5	188.0	0.4		4.8	-18	4498	No stop
22 10 50	---	07 07 09	42.5	189.0	0.4		5.4	162	4521	22 07 51
22 11 20	J0639+0601	07 07 40	42.6	189.4	0.5		5.7	21	4521	22 11 20
22 12 20	---	07 08 40	42.5	189.7	0.5		5.9	60	4529	22 11 21

Schedule for TORUN (Code Tr)

Page 13

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
22 12 20	J0645+0541	07 08 40	42.4	187.5	0.4		4.5	-18	4529	No stop
22 13 20	=0643+057	07 09 40	42.3	187.8	0.4		4.7	42	4536	22 12 21
22 13 20	NOVA-MON	07 09 40	42.4	189.9	0.5		5.9	-18	4536	No stop
22 16 20	---	07 12 40	42.3	190.9	0.5		6.5	162	4560	22 13 21
22 16 20	J0639+0601	07 12 40	42.4	191.1	0.5		6.7	-9	4560	No stop
22 17 40	---	07 14 01	42.4	191.5	0.6		6.9	71	4570	22 16 21
22 17 40	J0645+0541	07 14 01	42.2	189.3	0.5		5.6	-18	4570	No stop
22 18 40	=0643+057	07 15 01	42.2	189.6	0.5		5.8	42	4578	22 17 41
22 18 40	NOVA-MON	07 15 01	42.3	191.7	0.6		7.0	-18	4578	No stop
22 21 40	---	07 18 01	42.2	192.7	0.6		7.6	162	4601	22 18 41
22 22 10	J0639+0601	07 18 31	42.3	193.0	0.6		7.8	21	4601	22 22 10
22 23 10	---	07 19 32	42.2	193.4	0.7		8.0	60	4609	22 22 11
22 23 10	J0645+0541	07 19 32	42.1	191.1	0.6		6.7	-18	4609	No stop
22 24 10	=0643+057	07 20 32	42.1	191.4	0.6		6.9	42	4616	22 23 11
22 24 10	NOVA-MON	07 20 32	42.1	193.5	0.7		8.1	-18	4616	No stop
22 27 10	---	07 23 32	42.0	194.5	0.7		8.7	162	4640	22 24 11
22 27 10	J0639+0601	07 23 32	42.1	194.7	0.7		8.8	-9	4640	No stop
22 28 30	---	07 24 52	42.0	195.1	0.8		9.1	71	4650	22 27 11
22 28 30	J0645+0541	07 24 52	41.9	192.9	0.6		7.7	-18	4650	No stop
22 29 30	=0643+057	07 25 53	41.9	193.2	0.7		7.9	42	4658	22 28 31
22 29 30	NOVA-MON	07 25 53	41.9	195.3	0.8		9.2	-18	4658	No stop
22 32 30	---	07 28 53	41.8	196.3	0.8		9.7	162	4681	22 29 31
22 33 00	J0639+0601	07 29 23	41.8	196.6	0.8		10.0	21	4681	22 33 00
22 34 00	---	07 30 23	41.8	197.0	0.8		10.1	60	4689	22 33 01
22 36 00	0528+134	07 32 24	43.8	222.6	2.0		24.7	54	4689	22 36 00
22 39 00	---	07 35 24	43.5	223.5	2.1		25.2	180	4712	22 36 01
22 41 00	J0645+0541	07 37 24	41.4	197.0	0.8		10.2	51	4712	22 41 00
22 42 00	=0643+057	07 38 25	41.4	197.3	0.9		10.4	60	4720	22 41 01
22 42 00	NOVA-MON	07 38 25	41.3	199.4	1.0		11.6	-18	4720	No stop
22 45 00	---	07 41 25	41.2	200.4	1.0		12.1	162	4743	22 42 01

Schedule for TORUN (Code Tr)

Page 14

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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

Disk: GBytes recorded to this point.

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

SYNC: Time correlator is expected to sync up.

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

--- Tue 15 Jan 2013 Day 15 ---										
22 45 00	J0639+0601	07 41 25	41.3	200.6	1.0		12.2	-9	4743	No stop
22 46 20	---	07 42 45	41.2	201.0	1.0		12.5	71	4753	22 45 01
22 46 20	J0645+0541	07 42 45	41.2	198.7	0.9		11.2	-18	4753	No stop
22 47 20	=0643+057	07 43 45	41.2	199.1	1.0		11.4	42	4761	22 46 21
22 47 20	NOVA-MON	07 43 45	41.0	201.1	1.1		12.6	-18	4761	No stop
22 50 20	---	07 46 46	40.9	202.1	1.1		13.1	162	4784	22 47 21
22 50 50	J0639+0601	07 47 16	40.9	202.4	1.1		13.3	21	4784	22 50 50
22 51 50	---	07 48 16	40.9	202.8	1.1		13.5	60	4792	22 50 51
22 51 50	J0645+0541	07 48 16	40.9	200.5	1.0		12.2	-18	4792	No stop
22 52 50	=0643+057	07 49 16	40.9	200.8	1.0		12.4	42	4800	22 51 51
22 52 50	NOVA-MON	07 49 16	40.7	202.9	1.1		13.6	-18	4800	No stop
22 55 50	---	07 52 17	40.6	203.8	1.2		14.1	162	4823	22 52 51
22 55 50	J0639+0601	07 52 17	40.6	204.0	1.2		14.2	-9	4823	No stop
22 57 10	---	07 53 37	40.6	204.5	1.2		14.5	71	4833	22 55 51
22 57 10	J0645+0541	07 53 37	40.6	202.2	1.1		13.2	-18	4833	No stop
22 58 10	=0643+057	07 54 37	40.6	202.6	1.1		13.4	42	4841	22 57 11
23 03 10	4C39.25	07 59 38	69.3	124.2	-1.5		-39.7	126	4841	23 03 10
23 15 00	---	08 11 30	70.8	129.5	-1.3		-36.6	710	4933	23 03 11
23 15 40	4C39.25	08 12 10	70.8	129.8	-1.3		-36.4	33	4933	23 15 40
23 30 00	---	08 26 32	72.4	137.2	-1.0		-31.7	860	5044	23 15 41
23 34 00	M87	08 30 33	27.5	107.0	-4.0		-36.0	57	5044	23 34 00
23 45 00	---	08 41 35	29.1	109.5	-3.8		-35.4	660	5129	23 34 01
23 45 40	M87	08 42 15	29.2	109.7	-3.8		-35.4	34	5129	23 45 40
23 59 59	---	08 56 37	31.2	113.0	-3.6		-34.5	859	5240	23 45 41

--- Wed 16 Jan 2013 Day 16 ---										
00 00 40	M87	08 57 18	31.3	113.2	-3.6		-34.4	34	5240	00 00 40
00 15 00	---	09 11 40	33.2	116.6	-3.3		-33.3	860	5351	00 00 41
00 15 40	M87	09 12 20	33.3	116.8	-3.3		-33.3	34	5351	00 15 40
00 30 00	---	09 26 42	35.2	120.3	-3.1		-32.0	860	5462	00 15 41

Schedule for TORUN (Code Tr)

Page 15

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

--- Wed 16 Jan 2013 Day 16 ---										
00 30 40	M87	09 27 22	35.3	120.5	-3.1		-32.0	34	5462	00 30 40
00 45 00	---	09 41 45	37.1	124.2	-2.8		-30.5	860	5573	00 30 41
00 45 40	M87	09 42 25	37.2	124.4	-2.8		-30.5	34	5573	00 45 40
01 00 00	---	09 56 47	38.9	128.3	-2.6		-28.8	860	5683	00 45 41
01 00 40	M87	09 57 27	39.0	128.5	-2.6		-28.8	34	5683	01 00 40
01 15 00	---	10 11 50	40.7	132.5	-2.3		-26.9	860	5794	01 00 41
01 15 40	M87	10 12 30	40.7	132.7	-2.3		-26.9	34	5794	01 15 40
01 30 00	---	10 26 52	42.3	136.9	-2.1		-24.8	860	5905	01 15 41
01 30 40	M87	10 27 32	42.3	137.1	-2.1		-24.7	34	5905	01 30 40
01 45 00	---	10 41 55	43.7	141.5	-1.8		-22.5	860	6016	01 30 41
01 45 40	M87	10 42 35	43.8	141.7	-1.8		-22.4	34	6016	01 45 40
02 00 00	---	10 56 57	45.1	146.3	-1.6		-19.9	860	6127	01 45 41
02 00 40	M87	10 57 37	45.1	146.5	-1.6		-19.8	34	6127	02 00 40
02 15 00	---	11 12 00	46.2	151.3	-1.3		-17.2	860	6238	02 00 41
02 15 40	M87	11 12 40	46.3	151.5	-1.3		-17.0	34	6238	02 15 40
02 30 00	---	11 27 02	47.2	156.5	-1.1		-14.2	860	6349	02 15 41
02 30 40	M87	11 27 42	47.3	156.7	-1.1		-14.1	34	6349	02 30 40
02 45 00	---	11 42 05	48.0	161.8	-0.8		-11.1	860	6460	02 30 41
02 45 40	M87	11 42 45	48.1	162.0	-0.8		-10.9	34	6460	02 45 40
03 00 00	---	11 57 07	48.6	167.2	-0.6		-7.8	860	6571	02 45 41
03 00 40	M87	11 57 47	48.7	167.5	-0.6		-7.7	34	6571	03 00 40
03 15 00	---	12 12 09	49.0	172.8	-0.3		-4.4	860	6682	03 00 41
03 15 40	M87	12 12 50	49.0	173.0	-0.3		-4.3	34	6682	03 15 40
03 30 00	---	12 27 12	49.2	178.4	-0.1		-1.0	860	6793	03 15 41
03 33 00	J1416+3444	12 30 12	63.7	123.8	-1.8		-37.4	55	6793	03 33 00
03 38 10	=1413+349	12 35 23	64.3	125.7	-1.7		-36.4	310	6833	03 33 01
03 38 10	J1418+3542	12 35 23	64.8	123.4	-1.7		-38.1	-18	6833	No stop
03 41 40	---	12 38 54	65.3	124.8	-1.7		-37.4	192	6860	03 38 11
03 41 40	J1416+3444	12 38 54	64.8	127.1	-1.6		-35.6	-19	6860	No stop
03 43 10	=1413+349	12 40 24	64.9	127.7	-1.6		-35.3	71	6872	03 41 41

Schedule for TORUN (Code Tr)

Page 16

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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SYNC: Time correlator is expected to sync up.

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

--- Wed 16 Jan 2013 Day 16 ---										
03 43 10	J1418+3542	12 40 24	65.4	125.4	-1.6		-37.1	-18	6872	No stop
03 46 40	---	12 43 55	65.9	126.7	-1.6		-36.3	192	6899	03 43 11
03 47 20	J1416+3444	12 44 35	65.4	129.3	-1.5		-34.4	21	6899	03 47 20
03 48 20	=1413+349	12 45 35	65.6	129.8	-1.5		-34.1	60	6907	03 47 21
03 48 20	J1418+3542	12 45 35	66.1	127.4	-1.6		-35.9	-18	6907	No stop
03 51 50	---	12 49 06	66.5	128.9	-1.5		-35.1	192	6934	03 48 21
03 51 50	J1416+3444	12 49 06	66.0	131.2	-1.5		-33.3	-19	6934	No stop
03 53 20	=1413+349	12 50 36	66.1	131.9	-1.4		-32.9	71	6945	03 51 51
03 53 20	J1418+3542	12 50 36	66.7	129.5	-1.5		-34.8	-18	6945	No stop
03 56 50	---	12 54 06	67.1	131.0	-1.4		-33.9	192	6972	03 53 21
03 57 30	J1416+3444	12 54 46	66.6	133.7	-1.4		-31.9	21	6972	03 57 30
03 58 30	=1413+349	12 55 47	66.7	134.1	-1.3		-31.6	60	6980	03 57 31
03 58 30	J1418+3542	12 55 47	67.2	131.7	-1.4		-33.5	-19	6980	No stop
04 02 00	---	12 59 17	67.6	133.3	-1.3		-32.5	191	7007	03 58 31
04 02 00	J1416+3444	12 59 17	67.1	135.7	-1.3		-30.7	-19	7007	No stop
04 03 30	=1413+349	13 00 47	67.2	136.4	-1.3		-30.3	71	7019	04 02 01
04 03 30	J1418+3542	13 00 47	67.8	134.0	-1.3		-32.1	-19	7019	No stop
04 07 00	---	13 04 18	68.2	135.6	-1.2		-31.1	191	7046	04 03 31
04 07 40	J1416+3444	13 04 58	67.6	138.3	-1.2		-29.1	21	7046	04 07 40
04 08 40	=1413+349	13 05 58	67.7	138.8	-1.2		-28.8	60	7054	04 07 41
04 08 40	J1418+3542	13 05 58	68.3	136.4	-1.2		-30.7	-19	7054	No stop
04 12 10	---	13 09 29	68.7	138.0	-1.2		-29.6	191	7081	04 08 41
04 12 10	J1416+3444	13 09 29	68.1	140.5	-1.1		-27.7	-19	7081	No stop
04 13 40	=1413+349	13 10 59	68.2	141.2	-1.1		-27.2	71	7092	04 12 11
04 13 40	J1418+3542	13 10 59	68.9	138.8	-1.1		-29.1	-19	7092	No stop
04 17 10	---	13 14 30	69.2	140.5	-1.1		-28.0	191	7120	04 13 41
04 17 50	J1416+3444	13 15 10	68.6	143.3	-1.0		-25.9	21	7120	04 17 50
04 18 50	=1413+349	13 16 10	68.7	143.8	-1.0		-25.5	60	7127	04 17 51
04 18 50	J1418+3542	13 16 10	69.4	141.4	-1.0		-27.5	-19	7127	No stop
04 22 20	---	13 19 41	69.7	143.2	-1.0		-26.3	191	7154	04 18 51

Schedule for TORUN (Code Tr)

Page 17

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

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TPStart: Recording start time. Frequencies are 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

--- Wed 16 Jan 2013 Day 16 ---										
04 22 20	J1416+3444	13 19 41	69.0	145.6	-0.9		-24.3	-19	7154	No stop
04 23 50	=1413+349	13 21 11	69.1	146.4	-0.9		-23.8	71	7166	04 22 21
04 23 50	J1418+3542	13 21 11	69.8	144.0	-1.0		-25.8	-19	7166	No stop
04 27 20	---	13 24 41	70.1	145.9	-0.9		-24.5	191	7193	04 23 51
04 28 00	J1416+3444	13 25 21	69.5	148.7	-0.9		-22.3	21	7193	04 28 00
04 29 00	=1413+349	13 26 22	69.5	149.2	-0.8		-22.0	60	7201	04 28 01
04 29 00	J1418+3542	13 26 22	70.2	146.8	-0.9		-23.9	-19	7201	No stop
04 32 30	---	13 29 52	70.5	148.7	-0.8		-22.5	191	7228	04 29 01
04 32 30	J1416+3444	13 29 52	69.8	151.1	-0.8		-20.6	-19	7228	No stop
04 34 00	=1413+349	13 31 22	69.9	152.0	-0.8		-20.1	71	7240	04 32 31
04 34 00	J1418+3542	13 31 22	70.6	149.6	-0.8		-22.0	-18	7240	No stop
04 37 30	---	13 34 53	70.9	151.6	-0.7		-20.6	192	7267	04 34 01
04 38 10	J1416+3444	13 35 33	70.2	154.4	-0.7		-18.4	21	7267	04 38 10
04 39 10	=1413+349	13 36 33	70.3	154.9	-0.7		-18.0	60	7274	04 38 11
04 39 10	J1418+3542	13 36 33	71.0	152.6	-0.7		-19.9	-18	7274	No stop
04 42 40	---	13 40 04	71.3	154.7	-0.6		-18.4	192	7301	04 39 11
04 42 40	J1416+3444	13 40 04	70.5	157.0	-0.6		-16.6	-19	7301	No stop
04 44 10	=1413+349	13 41 34	70.6	157.9	-0.6		-16.0	71	7313	04 42 41
04 44 10	J1418+3542	13 41 34	71.4	155.6	-0.6		-17.8	-18	7313	No stop
04 47 40	---	13 45 05	71.6	157.7	-0.6		-16.3	192	7340	04 44 11
04 48 20	J1416+3444	13 45 45	70.8	160.4	-0.5		-14.2	21	7340	04 48 20
04 49 20	=1413+349	13 46 45	70.8	161.0	-0.5		-13.8	60	7348	04 48 21
04 49 20	J1418+3542	13 46 45	71.7	158.8	-0.5		-15.5	-18	7348	No stop
04 52 50	---	13 50 16	71.8	161.0	-0.5		-14.0	192	7375	04 49 21
04 52 50	J1416+3444	13 50 16	71.0	163.1	-0.4		-12.2	-19	7375	No stop
04 54 20	=1413+349	13 51 46	71.1	164.1	-0.4		-11.6	71	7387	04 52 51
04 54 20	J1418+3542	13 51 46	71.9	161.9	-0.5		-13.3	-18	7387	No stop
04 57 50	---	13 55 16	72.1	164.2	-0.4		-11.6	192	7414	04 54 21
04 58 30	J1416+3444	13 55 56	71.2	166.7	-0.3		-9.7	22	7414	04 58 30
04 59 30	=1413+349	13 56 57	71.3	167.3	-0.3		-9.2	60	7421	04 58 31

Schedule for TORUN (Code Tr)

Page 18

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

--- Wed 16 Jan 2013 Day 16 ---										
04 59 30	J1418+3542	13 56 57	72.1	165.2	-0.4		-10.9	-17	7421	No stop
05 03 00	---	14 00 27	72.3	167.5	-0.3		-9.2	193	7449	04 59 31
05 03 00	J1416+3444	14 00 27	71.4	169.5	-0.3		-7.6	-18	7449	No stop
05 04 30	=1413+349	14 01 57	71.4	170.5	-0.2		-6.9	72	7460	05 03 01
05 04 30	J1418+3542	14 01 57	72.3	168.5	-0.3		-8.5	-17	7460	No stop
05 08 00	---	14 05 28	72.4	170.9	-0.2		-6.7	193	7487	05 04 31
05 08 40	J1416+3444	14 06 08	71.5	173.2	-0.2		-5.0	22	7487	05 08 40
05 09 40	=1413+349	14 07 08	71.5	173.8	-0.2		-4.5	60	7495	05 08 41
05 09 40	J1418+3542	14 07 08	72.4	172.0	-0.2		-5.9	-17	7495	No stop
05 13 10	---	14 10 39	72.5	174.3	-0.1		-4.2	193	7522	05 09 41
05 13 10	J1416+3444	14 10 39	71.6	176.1	-0.1		-2.8	-17	7522	No stop
05 14 40	=1413+349	14 12 09	71.6	177.1	-0.1		-2.1	73	7534	05 13 11
05 14 40	J1418+3542	14 12 09	72.5	175.3	-0.1		-3.4	-16	7534	No stop
05 18 10	---	14 15 40	72.5	177.7	-0.1		-1.7	194	7561	05 14 41
05 18 50	J1416+3444	14 16 20	71.6	179.8	-0.0		-0.1	23	7561	05 18 50
05 19 50	=1413+349	14 17 20	71.6	180.5	0.0		0.3	60	7569	05 18 51
05 19 50	J1418+3542	14 17 20	72.6	178.9	-0.0		-0.8	-16	7569	No stop
05 23 20	---	14 20 51	72.6	181.2	0.0		0.9	194	7596	05 19 51
05 23 20	J1416+3444	14 20 51	71.6	182.7	0.1		2.0	-16	7596	No stop
05 24 50	=1413+349	14 22 21	71.6	183.7	0.1		2.7	74	7607	05 23 21
05 24 50	J1418+3542	14 22 21	72.5	182.2	0.1		1.7	-16	7607	No stop
05 28 20	---	14 25 51	72.5	184.6	0.1		3.4	194	7634	05 24 51
05 29 00	J1416+3444	14 26 31	71.5	186.4	0.2		4.7	23	7634	05 29 00
05 30 00	=1413+349	14 27 32	71.5	187.1	0.2		5.2	60	7642	05 29 01
05 33 00	M87	14 30 32	42.8	221.4	2.0		24.0	59	7642	05 33 00
05 45 00	---	14 42 34	41.6	225.0	2.2		25.8	720	7735	05 33 01
05 45 40	M87	14 43 14	41.5	225.2	2.2		25.9	34	7735	05 45 40
06 00 00	---	14 57 37	39.9	229.3	2.4		27.8	860	7846	05 45 41
06 00 40	M87	14 58 17	39.9	229.5	2.4		27.9	34	7846	06 00 40
06 15 00	---	15 12 39	38.2	233.5	2.7		29.6	860	7957	06 00 41

Schedule for TORUN (Code Tr)

Page 19

e-EVN runs RSP07 (Perez-Torres), E0011B (OBrien), EG063C (Giroletti)

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

--- Wed 16 Jan 2013 Day 16 ---										
06 15 40	M87	15 13 19	38.1	233.7	2.7		29.7	34	7957	06 15 40
06 30 00	---	15 27 41	36.3	237.5	2.9		31.2	860	8068	06 15 41
06 30 40	M87	15 28 22	36.2	237.6	2.9		31.3	34	8068	06 30 40
06 45 00	---	15 42 44	34.4	241.3	3.2		32.6	860	8179	06 30 41
06 45 40	M87	15 43 24	34.3	241.4	3.2		32.7	34	8179	06 45 40
07 00 00	---	15 57 46	32.4	245.0	3.4		33.8	860	8290	06 45 41
07 00 40	M87	15 58 27	32.3	245.1	3.4		33.9	34	8290	07 00 40
07 15 00	---	16 12 49	30.3	248.5	3.7		34.9	860	8401	07 00 41
07 15 40	M87	16 13 29	30.2	248.7	3.7		34.9	34	8401	07 15 40
07 30 00	---	16 27 51	28.2	251.9	3.9		35.8	860	8512	07 15 41
07 30 40	M87	16 28 31	28.1	252.1	4.0		35.8	34	8512	07 30 40
07 45 00	---	16 42 54	26.0	255.3	4.2		36.5	860	8623	07 30 41
07 45 40	M87	16 43 34	25.9	255.4	4.2		36.5	34	8623	07 45 40
08 00 00	---	16 57 56	23.8	258.5	4.4		37.0	860	8734	07 45 41
08 00 40	M87	16 58 36	23.7	258.7	4.5		37.1	34	8734	08 00 40
08 15 00	---	17 12 59	21.6	261.7	4.7		37.5	860	8845	08 00 41
08 15 40	M87	17 13 39	21.5	261.8	4.7		37.5	34	8845	08 15 40
08 30 00	---	17 28 01	19.3	264.8	4.9		37.7	860	8956	08 15 41
08 30 40	M87	17 28 41	19.2	264.9	5.0		37.8	34	8956	08 30 40
08 45 00	---	17 43 04	17.1	267.9	5.2		37.9	860	9067	08 30 41
08 45 40	M87	17 43 44	17.0	268.0	5.2		37.9	34	9067	08 45 40
09 00 00	---	17 58 06	14.8	270.9	5.4		37.9	860	9177	08 45 41
09 00 40	M87	17 58 46	14.7	271.0	5.5		37.9	34	9177	09 00 40
09 15 00	---	18 13 09	12.6	273.9	5.7		37.8	860	9288	09 00 41
09 15 40	M87	18 13 49	12.5	274.0	5.7		37.8	34	9288	09 15 40
09 30 00	---	18 28 11	10.3	276.8	5.9		37.6	860	9399	09 15 41
09 30 40	M87	18 28 51	10.2	276.9	6.0		37.6	34	9399	09 30 40
09 45 00	---	18 43 14	8.1	279.8	6.2		37.3	860	9510	09 30 41
09 45 40	M87	18 43 54	8.0	279.9	6.2		37.3	34	9510	09 45 40
10 00 00	---	18 58 16	5.9	282.7	6.4		36.8	860	9621	09 45 41

SETUP FILE INFORMATION:

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

=====
 Setup file: 1024Mbps

Matching groups in /aps3/opt/share/sched_10.2/catalogs/freq.dat:
 tr6cm E-mail Borkowski 23Apr03 (CR 1May03)

Setup group: 3 Station: TORUN Total bit rate: 1024
 Format: MKIV1:2 Bits per sample: 2 Sample rate: 32.000
 Number of channels: 16 DBE type: Speedup factor: 0.50

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	
	L	L	U	U	L	L	U	U	
Pol. =	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	
	RCP	LCP	RCP	LCP	RCP	LCP	RCP	LCP	
BBC =	1	2	1	2	3	4	3	4	
	5	6	5	6	7	8	7	8	
BBC SB=	L	L	U	U	L	L	U	U	
	L	L	U	U	L	L	U	U	
IF =	C	A	C	A	C	A	C	A	
	C	A	C	A	C	A	C	A	

The following frequency sets based on these setups were used.

Frequency Set: 6 Setup file default. Used pcal sets: 1

LO sum=	4942.49	4942.49	4942.49	4942.49	4974.49	4974.49	4974.49	4974.49
	5006.49	5006.49	5006.49	5006.49	5038.49	5038.49	5038.49	5038.49
BBC fr=	742.49	742.49	742.49	742.49	774.49	774.49	774.49	774.49
	806.49	806.49	806.49	806.49	838.49	838.49	838.49	838.49
Bandwd=	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00

Matching frequency sets: 6

The following pulse cal sets were used with this setup:

Pulse cal detection set: 1 PCAL = OFF

PCALXB1=	S1	S2	S3	S4	S5	S6	S7	S8
PCALXB2=	M1	M2	M3	M4	M5	M6	M7	M8
PCALFR1=	0	0	0	0	0	0	0	0
PCALFR2=	0	0	0	0	0	0	0	0

Track assignments are:

track1= 2, 10, 18, 26, 3, 11, 19, 27, 66, 74, 82, 90, 67, 75, 83, 91
 barrel=roll_off

SOURCES USED IN RECORDING SCANS -- e-EVN runs RSP07 (Perez-Torres),
 EO011B (OBrien), EG063C (Giroletti)
 Catalog positions marked with *. Precession of date coordinates is
 based on stop time of first scan. Names used in schedule marked with *.
 Short names used in VLA and SNAP files marked with +.
 Observation date used in B1950/J2000 coordinate conversion (PRECDATE): 1979.900
 No adjustments are made for rates (DRA, DDEC). Scan hours are for recording scans only.

Baseline hours are only counted for scans above horizon at both ends.

Source	Source position (RA/Dec)		(Date)	Error (mas)
	(B1950)	(J2000)		
* NOVA-MON	06 36 58.031169	* 06 39 38.606000	06 40 22.775290	0.00
	05 56 39.51708	* 05 53 52.83000	05 52 57.62621	0.00
* J0639+0601	06 36 26.114095	* 06 39 06.840070	06 39 51.049302	0.00
	06 04 18.08471	* 06 01 33.68614	06 00 39.10417	0.00
* J2223-2909	22 20 37.261769	* 22 23 26.580000	22 24 10.305103	0.00
	-29 25 07.21926	*-29 09 55.10000	-29 05 58.40458	0.00
* J1418+3542	14 16 22.026905	* 14 18 28.583000	14 19 01.761398	0.00
	35 56 36.60509	* 35 42 49.50000	35 38 58.37581	0.00
J0530+1331	05 28 06.759218	* 05 30 56.416749	05 31 42.925704	0.10
* 0528+134	13 29 42.28877	* 13 31 55.14944	13 32 21.73755	0.10
* J0645+0541	06 43 06.971847	* 06 45 47.276563	06 46 31.378865	1.02
0643+057	05 44 35.51247	* 05 41 22.38653	05 40 20.09910	1.84
J0927+3902	09 23 55.319217	* 09 27 03.013938	09 27 54.253882	0.13
* 4C39.25	39 15 23.56637	* 39 02 20.85177	38 58 38.01503	0.10
* M87	12 28 17.569280	* 12 30 49.423382	12 31 30.209926	0.10
3C274	12 40 01.74884	* 12 23 28.04366	12 18 56.26164	0.10
* J1416+3444	14 13 56.264937	* 14 16 04.186254	14 16 37.756443	0.18
1413+349	34 58 29.45608	* 34 44 36.42736	34 40 43.88970	0.21
J1540+1447	15 38 30.232264	* 15 40 49.491515	15 41 25.844621	0.11
* 1538+149	14 57 21.79417	* 14 47 45.88464	14 45 10.56297	0.11
J2115+2933	21 13 20.577468	* 21 15 29.413455	21 16 02.539378	0.12
* 2113+293	29 21 06.68457	* 29 33 38.36687	29 37 05.14646	0.10
* J2215-2944	22 12 25.112688	* 22 15 16.034543	22 16 00.139042	0.36
2212-299	-29 59 20.02689	*-29 44 23.33270	-29 40 30.32223	1.05
* J2229-0832	22 27 02.336861	* 22 29 40.084339	22 30 21.086457	0.10
2227-088	-08 48 17.57644	*-08 32 54.43562	-08 28 50.77353	0.10
J2253+1608	22 51 29.519738	* 22 53 57.747937	22 54 36.508906	0.68
* 3C454.3	15 52 54.34810	* 16 08 53.56093	16 13 12.69533	0.72

The solar corona can cause unstable phases for sources too close to the Sun.
 SCHED provides warnings at individual scans for distances less than 10 degrees.
 The distance from the Sun to each source in this schedule is:

Source	Sun distance (deg)	Source	Sun distance (deg)	Source	Sun distance (deg)
NOVA-MON	157.1	J0645+0541	158.0	2113+293	54.5
J0639+0601	157.1	4C39.25	152.6	J2215-2944	33.6
J2223-2909	35.3	M87	112.9	J2229-0832	40.2
J1418+3542	96.8	J1416+3444	96.9	3C454.3	58.3
0528+134	145.9	1538+149	71.0		

Barry Clark estimates from predictions by Ketan Desai of IPM scattering sizes that the Sun will cause amplitude reductions on the longest VLBA baselines at a solar distance of $60 \text{ deg } F^{-0.6}$ where F is in GHz; this is **23. deg at 5.0 GHz.**