Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

Each NIMS Detailed Observation Design consists of an OAPEL form and a Pointer plot. The OAPEL form is a brief description of the design of the observation. The Pointer plot is a plot of the target body with the NIMS footprint incorporated in the mosaic design superimposed on the target body. The size and orientation of the target body is plotted as it appears at the time of the first NIMS footprint plotted. For long observations, the target body may rotate or move relative to the spacecraft during the observation. Some observations, such as calibrations, do not have Pointer plots.

NIMS Chopper On	ACTIVITY ID:	E6NNCHOPON01-
	START TIME:	97-049/11:30:02.600

Activity ID: Orbit E6 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS Chopper On			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/18/97	Week	8

Start	JEE-CDS	00003405:00:0	97-049/11:30:02.600	JEE-002/09:22:50.000
End	JEE-CDS	00003395:00:0	97-049/11:40:09.267	JEE-002/09:12:43.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   E6NNCHOPON01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

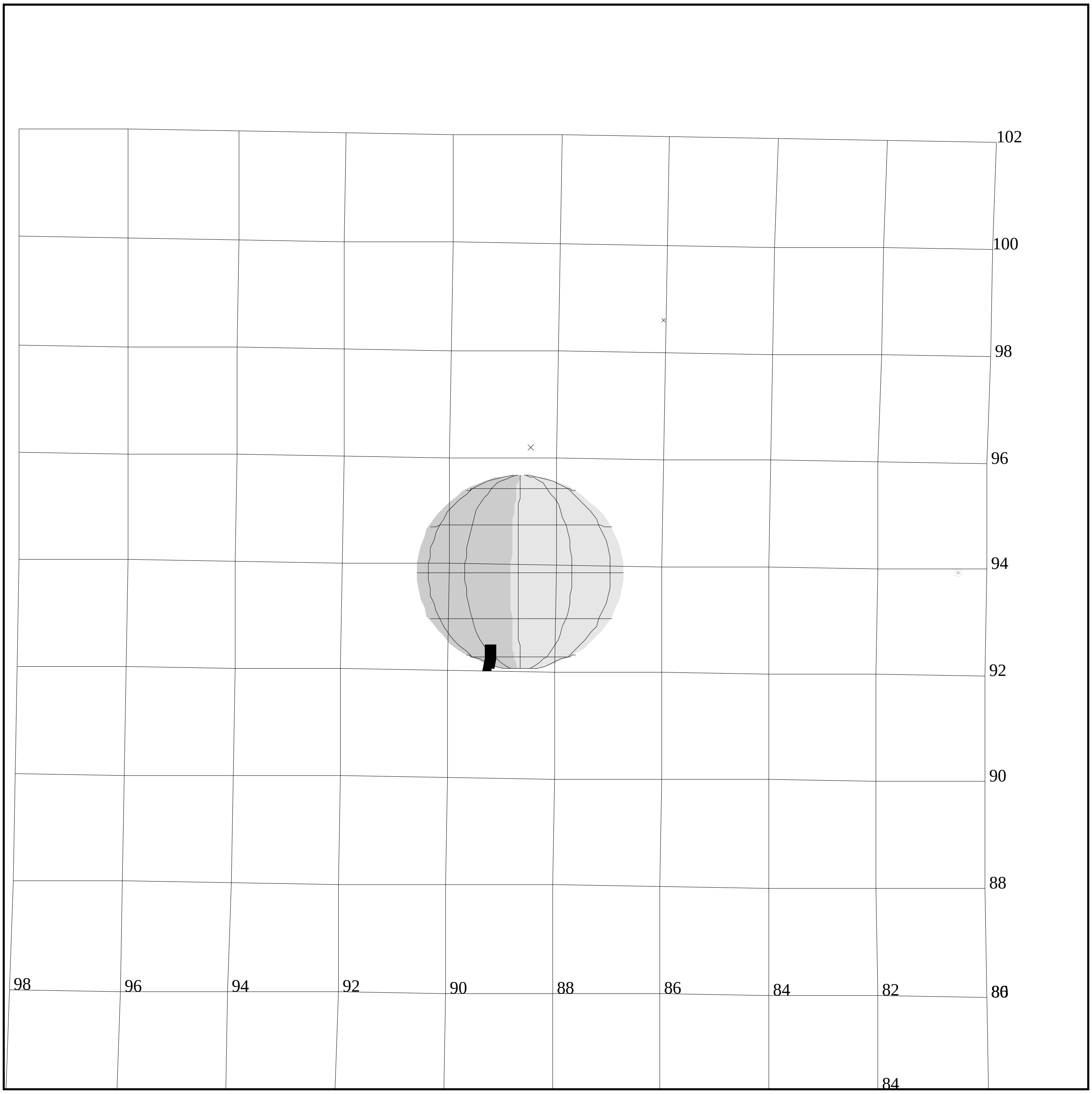
Configure the NIMS instrument for orbit E6 data taking.
This orbit includes observations of Jupiter, Io, Callisto, Europa, Ganymede and the main ring.

Design Detail

Use NIMSINIT with the following commands:

```
37IST,1,0,0,OFF,0,0,0;   Chopper 63 Hz
37IST,1,2,0,OFF,0,0,0;   Chopper Ref
```

Galileo Activity Plan Form   01/21/97 14:44:45   rev 6/95



165BD:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0842 TC= 2(90 95.44)
A= 182 pD= 0 SR=17.450 RA50=215.29 DEC50=-14.38 cone= 90.00 clock= 95.44
165BE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1944 TC= 2(90.30 92.20)
A= 182 pD= 0 SR=17.450 RA50=214.46 DEC50=-17.53 cone= 90.30 clock= 92.20

E6JNAURORA01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JUE6AURA02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 -CDS 3452:00:0

OBSERVATION:E6JUE6AURA02

THINNING:UVS 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200

DESCRIP:UVS AURORAL MAP E6 IN

NIMS Aurora Ride Along

ACTIVITY ID: E6JNAURORA01+
START TIME: 97-049/12:38:47.934

Activity ID: Orbit E6 Target J Inst N OAPEL AURORA SeqNo 01 +

Title	NIMS Aurora Ride Along				Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA		Team	NIMS	Working Group	MWG

Time System	CDS	Load ID		Calendar Date	02/18/97	Week 8

Start	JEE-CDS	00003337:00:0	97-049/12:38:47.934	JEE-002/08:14:04.666
End	JEE-CDS	00003330:00:0	97-049/12:45:52.600	JEE-002/08:07:00.000
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label E6JNAURORA01+
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Real Time Ride-Along observation with UVS taking 4 408 wavelength spectra in Jupiter’s southern aurora region.

Data Returned

Design Detail

Real-time Ride-Along with UVS in Jupiter’s southern aurora region.

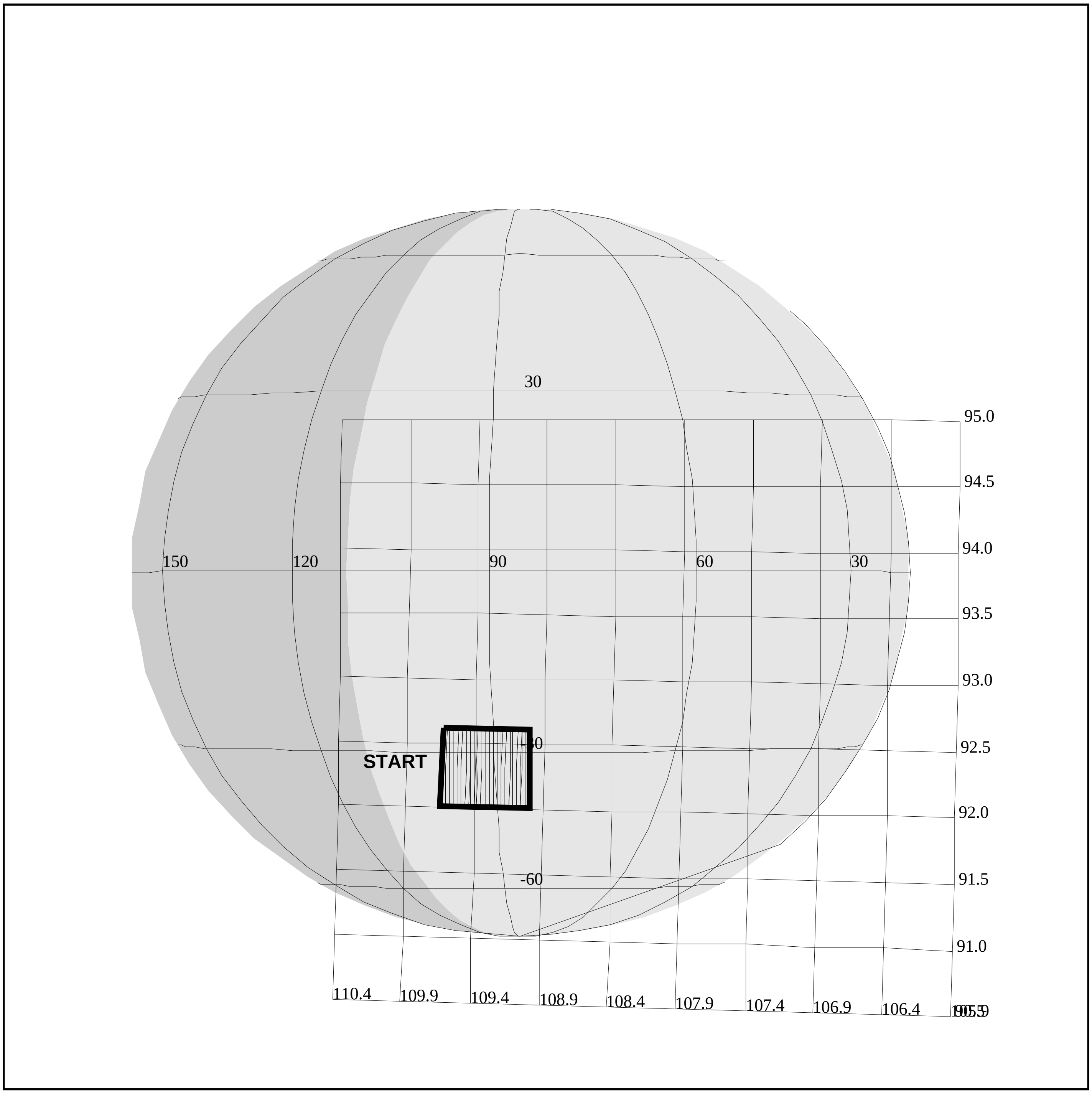
Alias: E6JUE6AURA02

Mirror Blocked (1B,1B) (11011,11011)

1 Rim of Real Time

Long Map (LM), Gain 4, Grating Start 0, R/T, JLM408

Galileo Activity Plan Form 01/21/97 14:44:46 rev 6/95



165DB:TT= 0 TMC= 1 C= 5.40 XC= 0.00 BS= 0/4024 TC= 1(-33 91.5)
A= 364 pD= 0 SR=17.450 RA50=234.29 DEC50=-22.89 cone=109.64 clock= 92.30
117DB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4024
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA06401

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA06401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 -CDS 1951:00:0

OBSERVATION:E6JNFEA06401

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

DESCRIP:JUP_FEAT_TRK_64_DEG_PHASE_01

Jupiter Feature Track 64 deg phase pt 1	ACTIVITY ID: E6JNFEA06401- START TIME: 97-050/11:55:08.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA064 SeqNo 01 -

Title	Jupiter Feature Track 64 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	Calendar Date	02/19/97	Week	8

Start	JEE-CDS	00001956:00:0	97-050/11:55:08.600	JEE-001/08:57:44.000
End	JEE-CDS	00001949:00:0	97-050/12:02:13.267	JEE-001/08:50:39.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	E6JNFEA06401-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 64 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

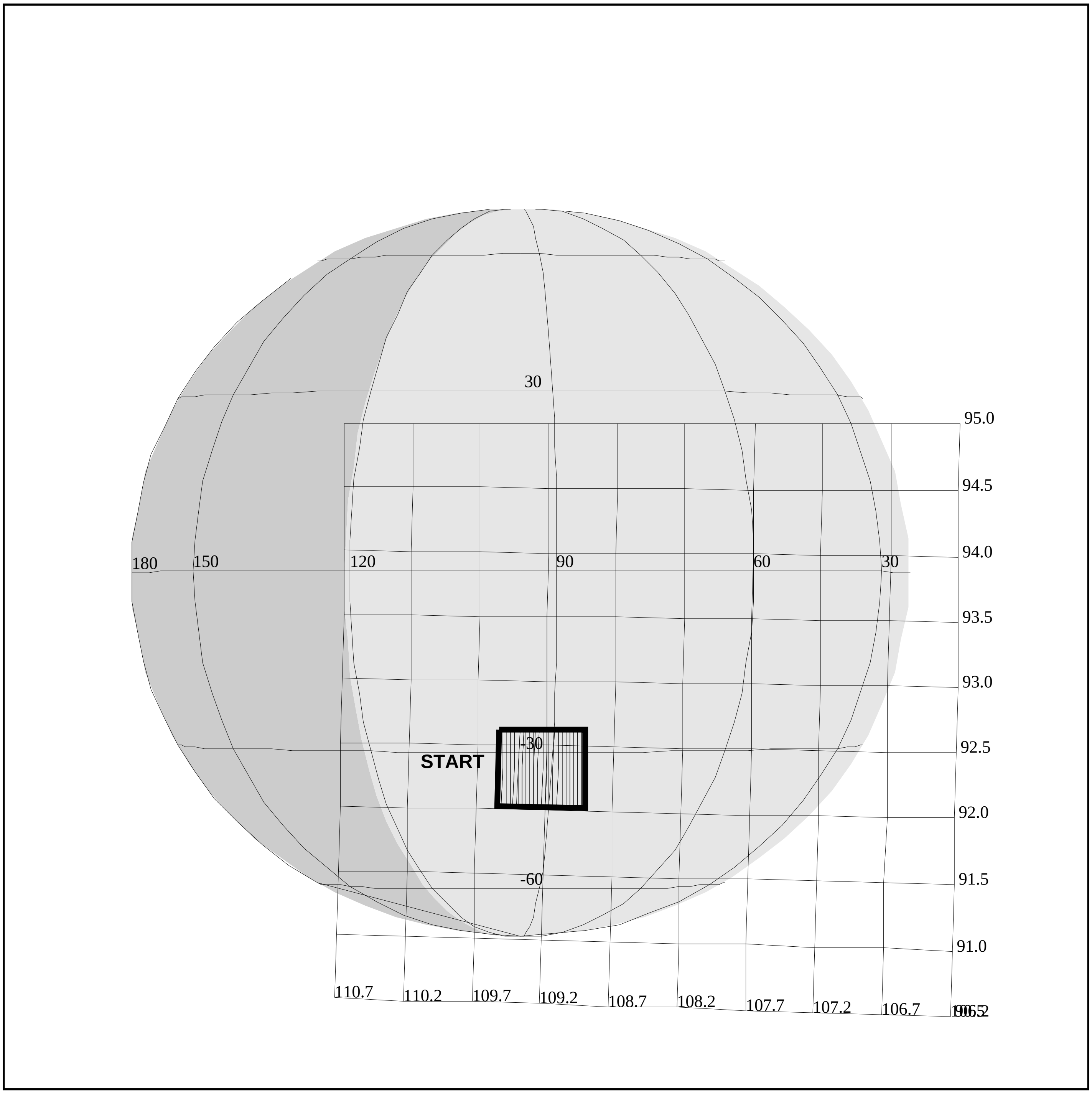
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.38 million KM, NIMS IFOV (NIMSEL) = 690 KM; 1*1 mosaic covers 13800*13800 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form   01/21/97 14:44:46   rev 6/95



165DC:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/6936 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50=234.19 DEC50=-22.87 cone=109.55 clock= 92.30
117DC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6936
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA06402

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA06402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 1935:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEA06402

DESCRIP:JUP_FEAT_TRK_64_DEG_PHASE_02

Jupiter Feature Track 64 deg phase pt 2	ACTIVITY ID:	E6JNFEA06402-
	START TIME:	97-050/12:11:19.267

Activity ID: Orbit E6 Target J Inst N OAPEL FEA064 SeqNo 02 -

Title	Jupiter Feature Track 64 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS   Load ID   Calendar Date 02/19/97 Week 8

Start	JEE-CDS	00001940:00:0	97-050/12:11:19.267	JEE-001/08:41:33.333
End	JEE-CDS	00001933:00:0	97-050/12:18:23.934	JEE-001/08:34:28.666
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6JNFEA06402-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 64 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the central meridian, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

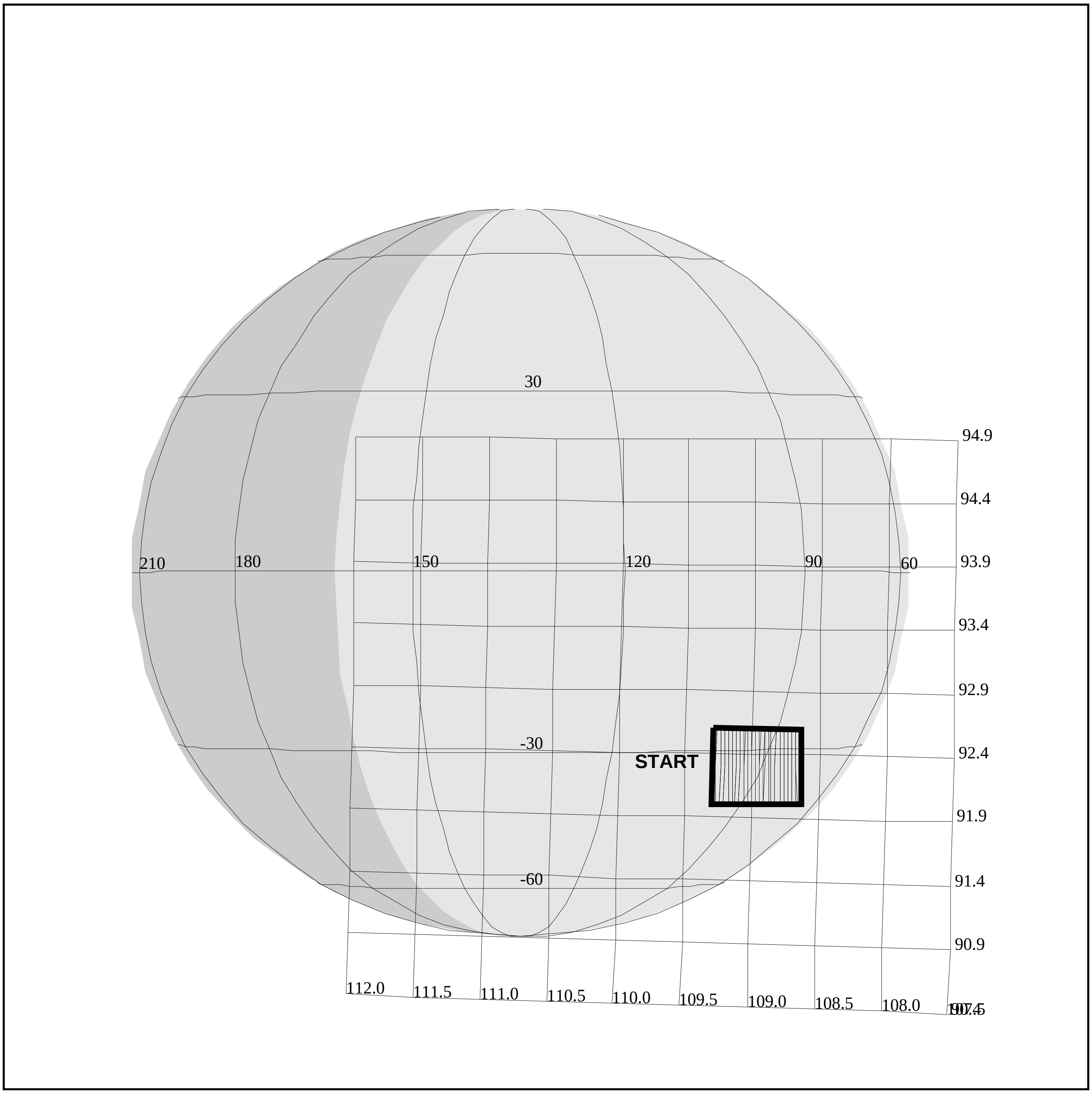
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval feature DE near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.37 million KM, NIMS IFOV (NIMSEL) = 685 KM; 1*1 mosaic covers 13700*13700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT20A

Galileo Activity Plan Form   01/21/97 14:44:46   rev 6/95



165DE:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/9130 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50=233.97 DEC50=-22.83 cone=109.34 clock= 92.30
117DE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9130
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA06403

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA06403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 -CDS 1868:00:0

OBSERVATION:E6JNFEA06403

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

DESCRIP:JUP_FEAT_TRK_64_DEG_PHASE_03

Jupiter Feature Track 64 deg phase pt 3	ACTIVITY ID: E6JNFEA06403- START TIME: 97-050/13:19:03.934

Activity ID: Orbit E6 Target J Inst N OAPEL FEA064 SeqNo 03 -

Title	Jupiter Feature Track 64 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID		Calendar Date 02/19/97	Week 8

Start	JEE-CDS	00001873:00:0	97-050/13:19:03.934	JEE-001/07:33:48.666
End	JEE-CDS	00001866:00:0	97-050/13:26:08.600	JEE-001/07:26:44.000
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label E6JNFEA06403-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 64 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near minimum airmass, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.35 million KM, NIMS IFOV (NIMSEL) = 675 KM; 1*1 mosaic covers 13500*13500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

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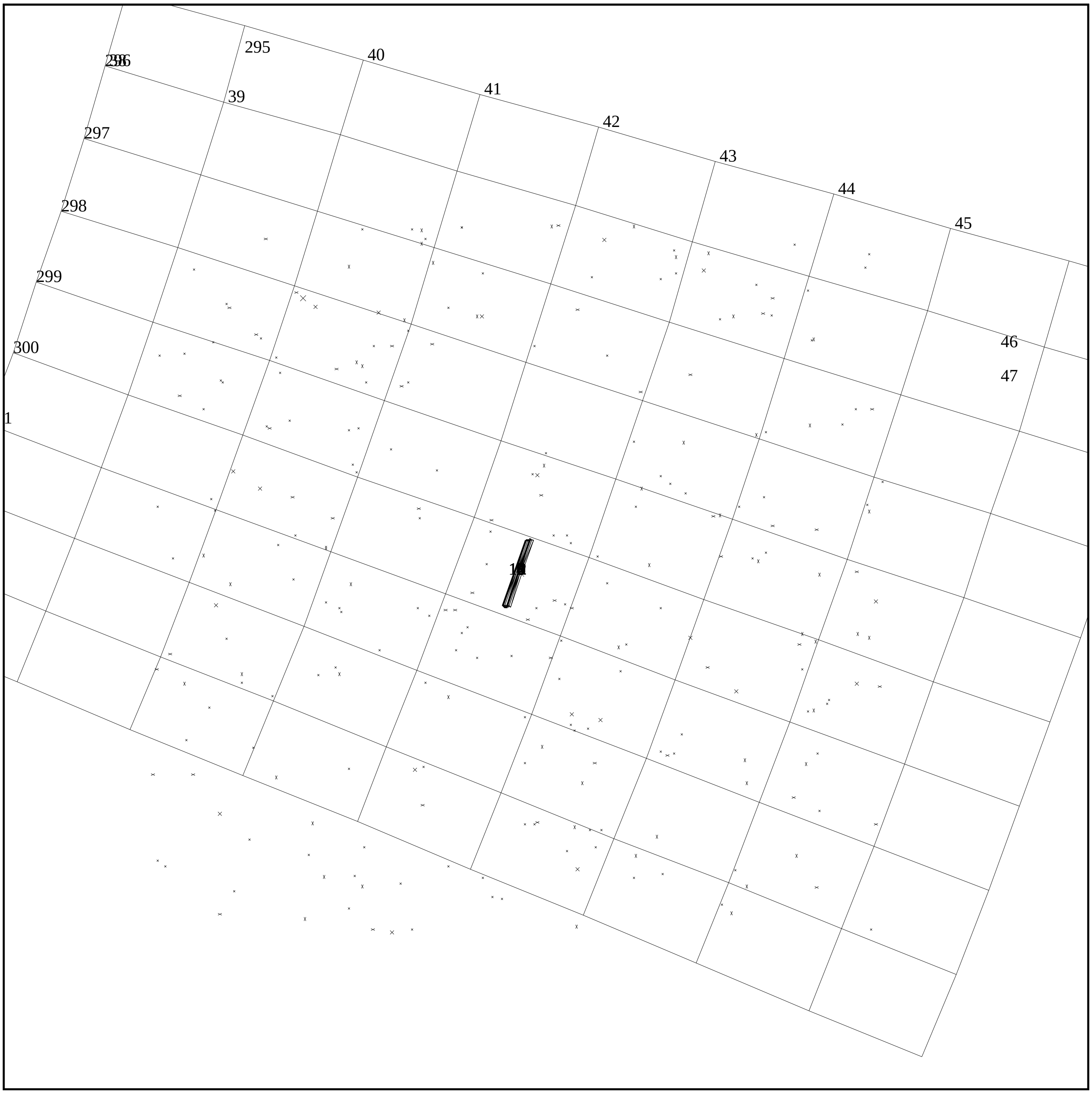

165DF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3386 TC=14(Betelgeuse O)
A= 728 pD= 0 SR=17.450 RA50= 88.12 DEC50= 7.40 cone= 42.51 clock=300.44

E6HNDARK__01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6HNDARK__01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 -CDS 936:00:0

OBSERVATION:E6HNDARK__01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

DESCRIP:DARK OBSERVATION

Dark Observation	ACTIVITY ID: E6HNDARK__01- START TIME: 97-050/20:11:36.000

Activity ID: Orbit E6 Target H Inst N OAPEL DARK SeqNo 01 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/19/97	Week	8

Start	IEE-CDS	00000941:00:0	97-050/20:11:36.000	IEE-000/15:51:27.333
End	IEE-CDS	00000934:00:0	97-050/20:18:40.667	IEE-000/15:44:22.666
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6HNDARK__01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the E6 orbit for purposes of calibration.

Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in long-map mode.

Long Map (LM), Gain 2, Grating Start 0, LPU, DRK34, DRK32

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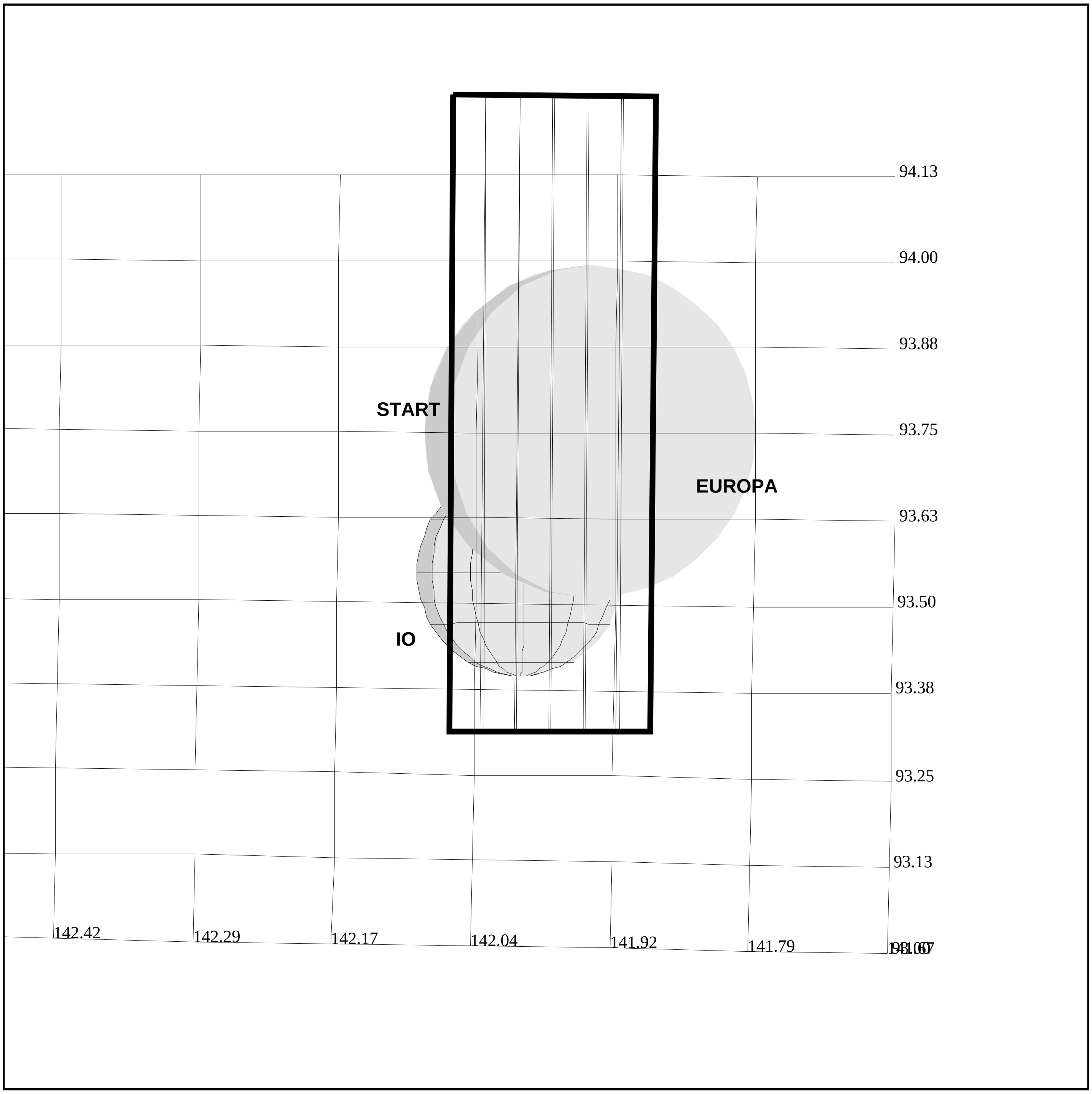

165DG:TT= 0 TMC= 1 C= 1.00 XC= 2.50 BS= 0/6480 TC= 3
A= 546 pD= 0 SR=17.450 RA50=269.81 DEC50=-25.03 cone=142.06 clock= 93.78
117DG:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/6480
1:#s= 1 Cs= -2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 312 rD= 2

E6ENCHEMIS01

DESIGN G3.0 jmart: 2/26/1997 11:22:38

FILE:P.E6INCHEMIS01

TARGET BODY : IO

MINI:m.E6INCHEMIS01

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 -CDS 919:00:0

OBSERVATION:E6INCHEMIS01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200

DESCRIP:MONITORING OF IO DAYSIDE

Monitoring of IO's Dayside	ACTIVITY ID: E6ENCHEMIS01- START TIME: 97-050/20:29:48.000

Activity ID: Orbit E6 Target E Inst N OAPEL CHEMIS SeqNo 01 -

Title	Monitoring of IO's Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date	02/19/97	Week 8

Start	IEE-CDS	00000923:00:0	97-050/20:29:48.000	IEE-000/15:33:15.333
End	IEE-CDS	00000917:00:0	97-050/20:35:52.000	IEE-000/15:27:11.333
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label E6ENCHEMIS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

This observation turned into a distant observation of Europa when Io was obscured by Europa.

Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

ALIAS: E6INCHEMIS01

Interestingly, Io was completely obscured by Europa in this observation - hence the alias. Contrary to what the Pointer plot shows, Io was COMPLETELY obscured by Europa. NO Io spectra apppear in ANY of the NIMS pixels. The TMC was set for the motion of Io, not Europa.

Long Map (LM), Gain 2, Grating Start 0, MPW, ELM245, ELM96

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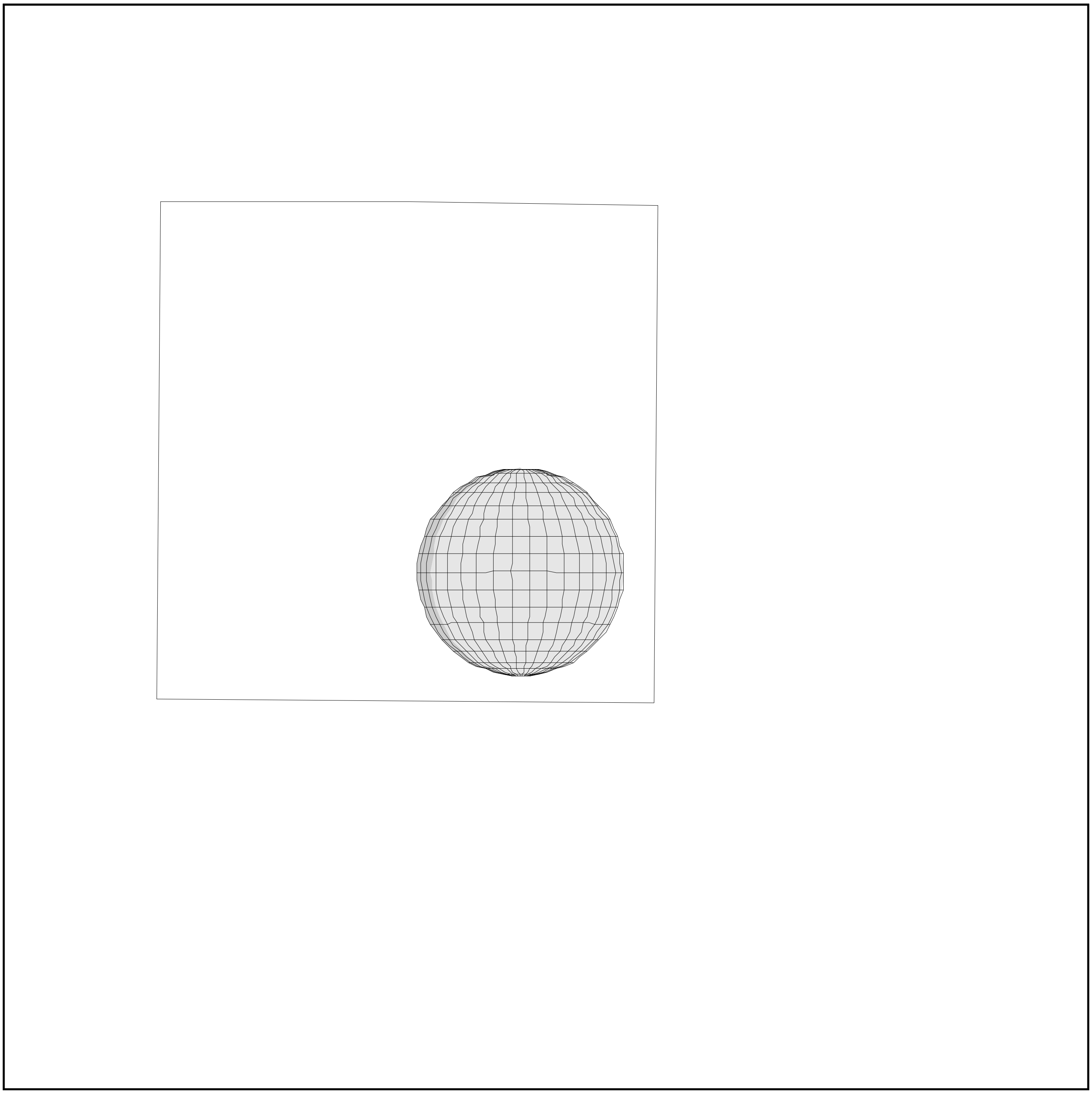

165JS:TT= 0 TMC= 1 C= -2.10 XC= -1.95 BS= 0/2486 TC= 3
A= 728 pD= 104 SR=17.450 RA50=270.96 DEC50=-25.25 cone=143.10 clock= 93.37
118JS:#SB= 1 Cs= 4.10 XCs= 0.00 TPP= 26 SR= 3.000 RR= 3.000 BM=F RC= 1 BS= 3/2486
1:#s= 2 #p= 2 Cr= -3.94 XCr= 3.90

E6NNHEALTH01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ISSRFMON01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 -CDS 886:00:0

OBSERVATION:E6ISSRFMON01

THINNING:

BODY PLOT TIME:TARGET-TIME D= 104 S= 0.200

DESCRIP:IO SURFACE MONITOR CAMPAIGN OCM

E6 Health 1		ACTIVITY ID:	E6NNHEALTH01-
		START TIME:	97-050/21:31:28.600

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 01 -

Title	E6 Health 1			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/19/97	Week	8

Start	JEE-CDS	00001386:00:0	97-050/21:31:28.600	JEE-000/23:21:24.000
End	JEE-CDS	00001380:00:0	97-050/21:37:32.600	JEE-000/23:15:20.000
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label   E6NNHEALTH01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6ISSRFMON01

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load	ACTIVITY ID: E6NIMSP2LD01- START TIME: 97-050/21:37:32.600

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 01 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/19/97	Week 8

Start	JEE-CDS	00001380:00:0	97-050/21:37:32.600	JEE-000/23:15:20.000
End	JEE-CDS	00001370:00:0	97-050/21:47:39.267	JEE-000/23:05:13.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	E6NIMSP2LD01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

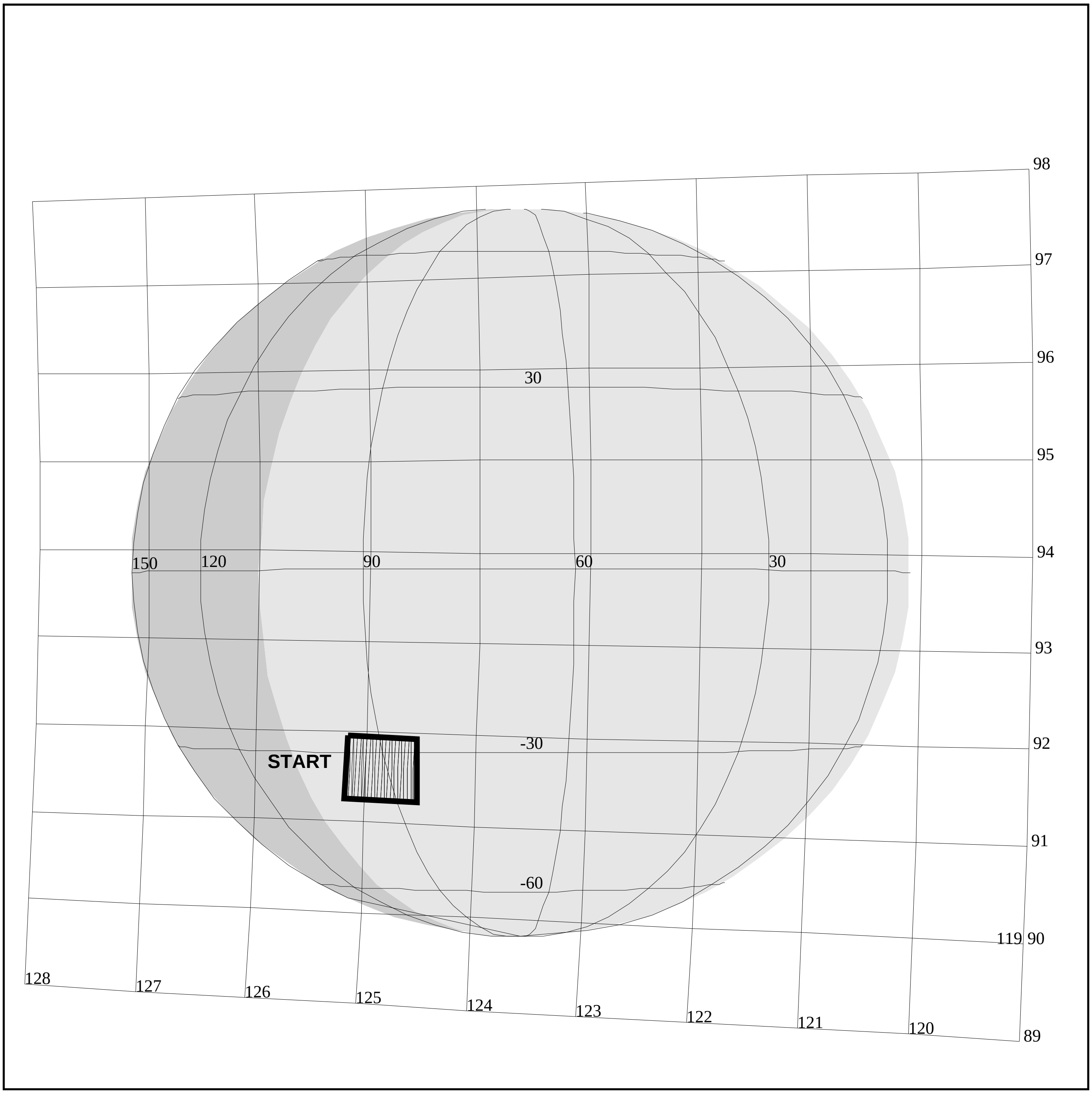
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS, instrument restart, and operational mode set.

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Galileo Activity Plan Form   01/21/97 14:44:47   rev 6/95



165DH:TT= 0 TMC= 1 C= 5.00 XC= 0.00 BS= 0/0130 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50=251.03 DEC50=-25.99 cone=125.17 clock= 91.60
117DH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0130
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA04801

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA04801

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1368:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA04801 **DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_01**

Jupiter Feature Track 48 deg phase pt 1	ACTIVITY ID:	E6JNFEA04801-	
	START TIME:	97-050/21:48:06.600	

Activity ID: Orbit E6 Target J Inst N OAPEL FEA048 SeqNo 01 -

Title	Jupiter Feature Track 48 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/19/97	Week 8

Start	JEE-CDS	00001369:50:0	97-050/21:48:06.600	JEE-000/23:04:46.000
End	JEE-CDS	00001366:00:0	97-050/21:51:41.934	JEE-000/23:01:10.666
Duration		00000003:50:0	000/00:03:35.334	000/00:03:35.334

Top Label   E6JNFEA04801-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

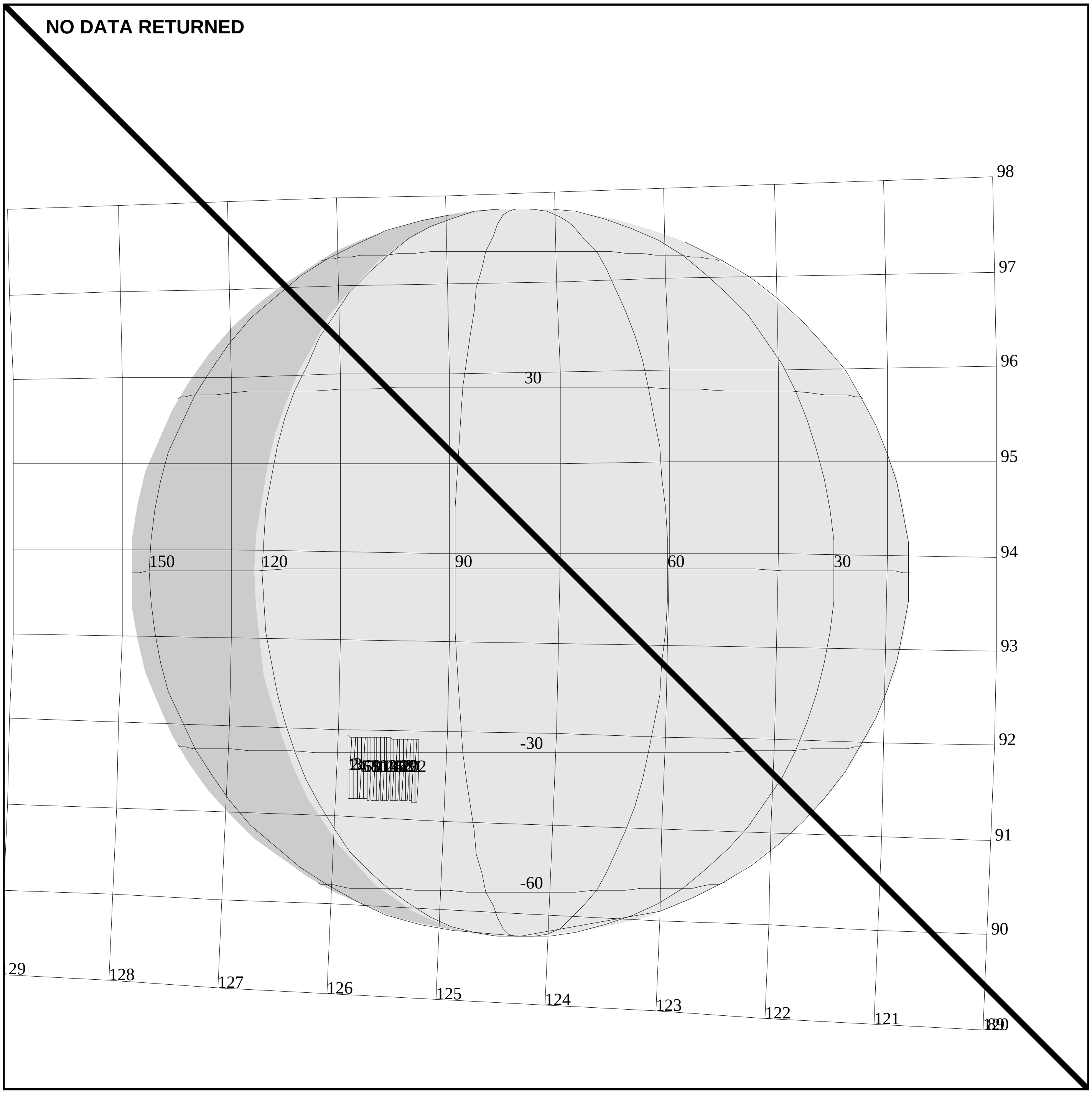
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.10 million KM, NIMS IFOV (NIMSEL) = 550 KM; 1*1 mosaic covers 11000*11000 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form   01/21/97 14:44:47   rev 6/95



165DI:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/4316 TC= 1(-33 104)
A= 182 pD= 0 SR=17.450 RA50=251.83 DEC50=-26.09 cone=125.89 clock= 91.56
117DI:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4316
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA04802

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA04802

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 1345:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA04802 **DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_02**

Jupiter Observation 48 Phase		ACTIVITY ID:	E6JNFEA04802-
		START TIME:	97-050/22:09:53.934

Activity ID: Orbit E6 Target J Inst N OAPEL FEA048 SeqNo 02 -

Title	Jupiter Observation 48 Phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/19/97	Week	8

Start	JEE-CDS	00001348:00:0	97-050/22:09:53.934	JEE-000/22:42:58.666
End	JEE-CDS	00001343:00:0	97-050/22:14:57.267	JEE-000/22:37:55.333
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label	E6JNFEA04802-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the terminator, assuming feature coordinates 33 degrees south latitude and 91.5 degrees west longitude (System III).

NOTE: ON 12/11/96 IT WAS DECIDED THAT NO DATA FROM THIS OBSERVATION WILL BE TRANSMITTED TO THE GROUND.

No Data Returned

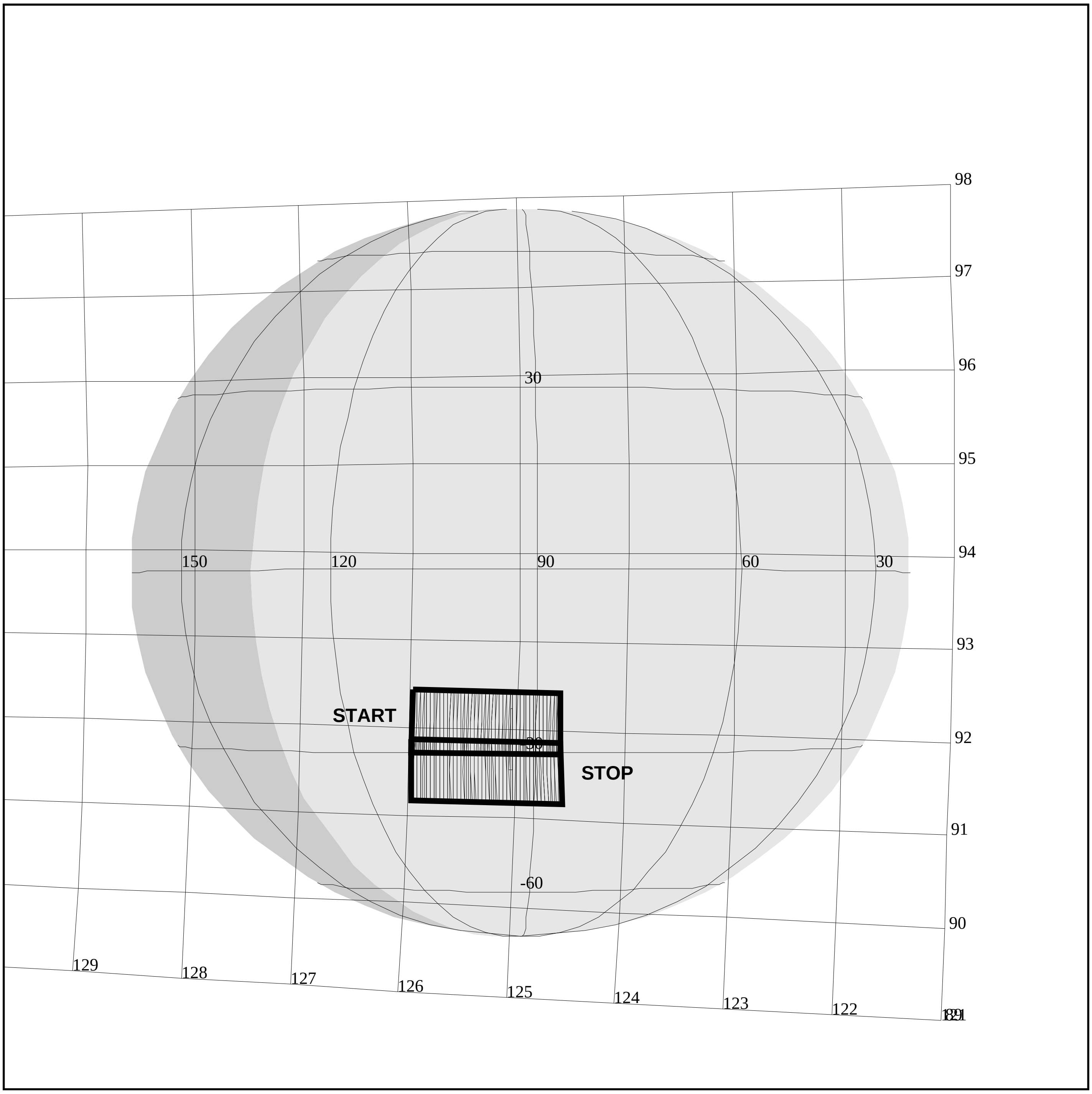
Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude. S/C distance about 1.10 million KM, NIMS IFOV (NIMSEL) = 550 KM; 1*1 mosaic covers 11000*11000 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks.
4 rims reserved for targetting.

NOTE: ON 12/11/96 IT WAS DECIDED THAT NO DATA FROM THIS OBSERVATION WILL BE TRANSMITTED TO THE GROUND.

Short Map (SM), Gain 2, Grating Start 1, MPW, JFT68A, JFT04A

Galileo Activity Plan Form   01/21/97 14:44:47   rev 6/95



165DK:TT= 0 TMC= 1 C= 18.40 XC= 7.50 BS= 0/7956 TC= 1(-33 91.5)
A= 182 pD= 0 SR=17.450 RA50=251.94 DEC50=-25.67 cone=125.96 clock= 92.08
117DK:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/7956
1:#s= 2 Cs= -23.80 XCs= 0.00 Cr= 23.80 XCr= -8.00 sD= 600 rD= 40

E6JNPFTB4801

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNPFTB4801

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 -CDS 1325:00:0

OBSERVATION:E6JNPFTB4801

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_0

Jupiter Feature Track B 48 deg part 1   ACTIVITY ID: E6JNPFTB4801-
START TIME: 97-050/22:31:07.934

Activity ID: Orbit E6 Target J Inst N OAPEL PFTB48 SeqNo 01 -

Title	Jupiter Feature Track B 48 deg part 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/19/97	Week 8

Start	JEE-CDS	00001327:00:0	97-050/22:31:07.934	JEE-000/22:21:44.666
End	JEE-CDS	00001318:00:0	97-050/22:40:13.934	JEE-000/22:12:38.666
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label   E6JNPFTB4801-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the partial feature track for White Oval DE. This observation also includes part of White Oval BC. This is the second observation of White Oval DE obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval BC near the terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

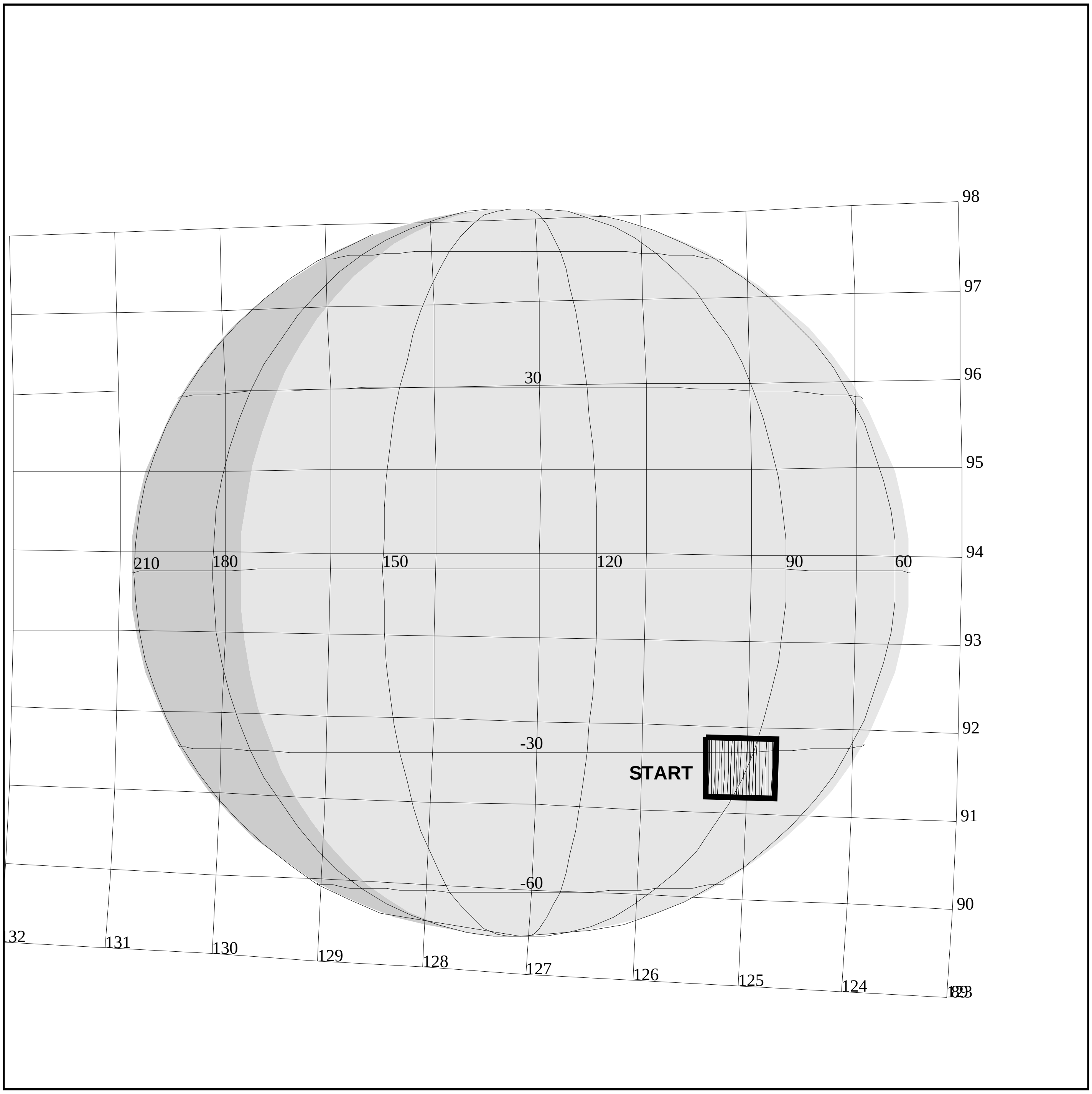
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*2 (20*18 mrad) area positioned with bottom left-hand frame on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.08 million KM, NIMS IFOV (NIMSEL) = 540 KM; 2*2 mosaic covers 21600*19440 with a 20% overlap between tiers. About 413 seconds of scanning (including 20 secs for reposition slews), accumulating 0.07 mbtg in 4 colors, and using 0.01411 tracks. 2 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT04A

Galileo Activity Plan Form   01/21/97 14:44:47   rev 6/95



165DL:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/9968 TC= 1(-33 91.5)
A= 182 pD= 0 SR=17.450 RA50=251.26 DEC50=-26.07 cone=125.38 clock= 91.53
117DL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9968
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA04803

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA04803

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 1259:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEA04803

DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_03

Jupiter Feature Track 48 deg phase pt 3	ACTIVITY ID:	E6JNFEA04803-
	START TIME:	97-050/23:35:50.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA048 SeqNo 03 -

Title	Jupiter Feature Track 48 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 02/19/97 Week 8

Start	JEE-CDS	00001263:00:0	97-050/23:35:50.600	JEE-000/21:17:02.000
End	JEE-CDS	00001255:30:0	97-050/23:43:35.934	JEE-000/21:09:16.666
Duration		00000007:61:0	000/00:07:45.334	000/00:07:45.334

Top Label E6JNFEA04803-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near minimum airmass, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

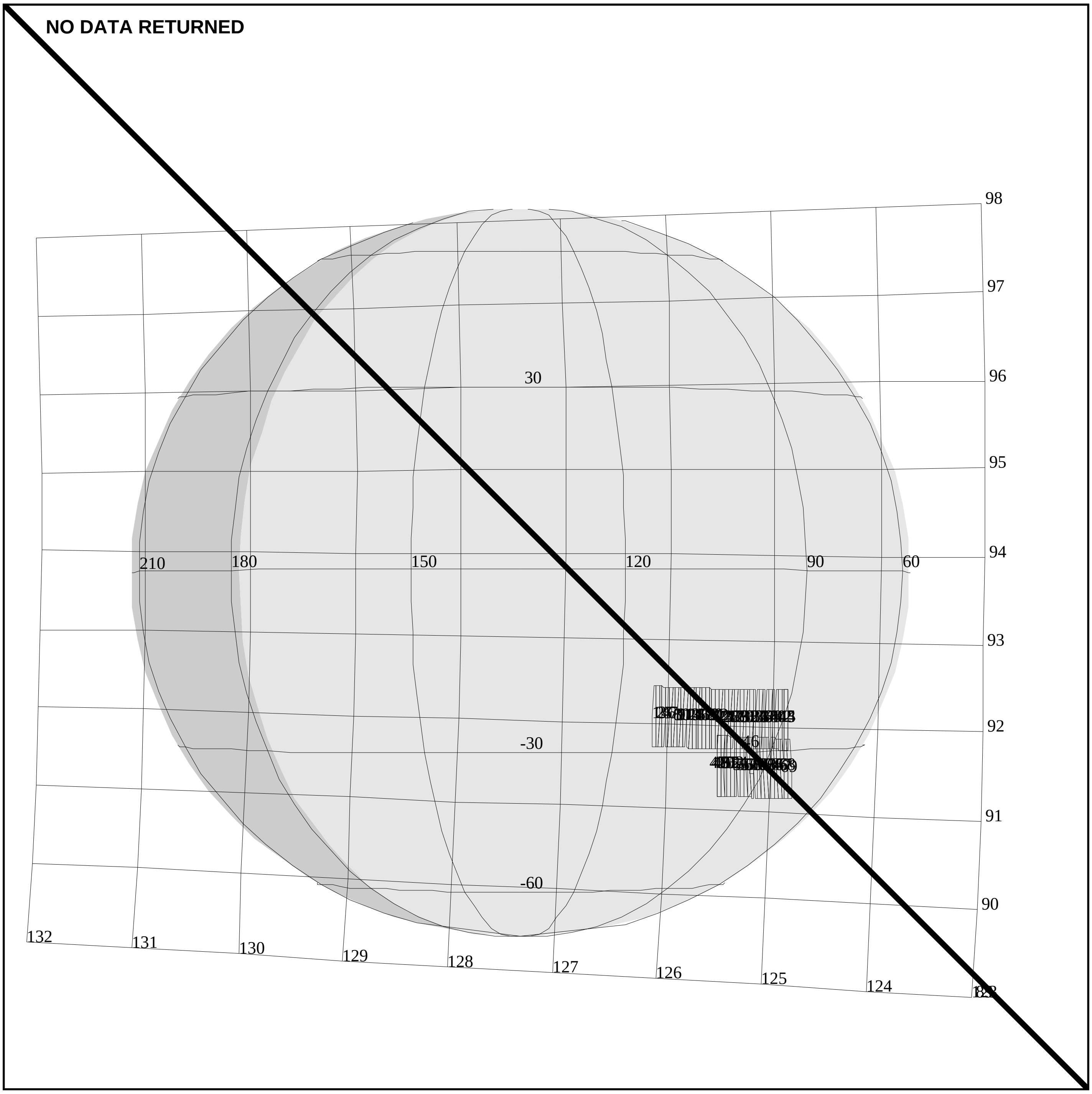
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.07 million KM, NIMS IFOV (NIMSEL) = 535 KM 1*1 mosaic covers 10700*10700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 2 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:47 rev 6/95



165DM:TT= 0 TMC= 1 C= 17.50 XC= 8.00 BS= 0/1242 TC= 1(-33 91.5)
A= 182 pD= 0 SR=17.450 RA50=252.14 DEC50=-25.69 cone=126.14 clock= 92.08
117DM:#SB= 2 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1242
1:#s= 1 Cs= -21.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 620 rD= 2
2:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 11.00 XCr= -8.00 sD= 300 rD= 40

E6JNPFTA4802

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNPFTA4802

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 1252:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNPFTA4802

DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_02

Jupiter Feature Track A 48 deg part 2	ACTIVITY ID:	E6JNPFTA4802-
	START TIME:	97-050/23:43:55.934

Activity ID: Orbit E6 Target J Inst N OAPEL PFTA48 SeqNo 02 -

Title	Jupiter Feature Track A 48 deg part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/19/97	Week 8

Start	JEE-CDS	00001255:00:0	97-050/23:43:55.934	JEE-000/21:08:56.666
End	JEE-CDS	00001246:70:0	97-050/23:52:15.267	JEE-000/21:00:37.333
Duration		00000008:21:0	000/00:08:19.333	000/00:08:19.333

Top Label	E6JNPFTA4802-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Another OAPEL constituting the partial feature track for feature A. This is the second observation obtained on a rotation with phase angle approximately 48 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature near minimum airmass.

NOTED: AS OF 12/11/96, NO DATA FROM THIS OBSERVATION WILL BE TRANSMITTED TO THE GROUND.

No Data Returned

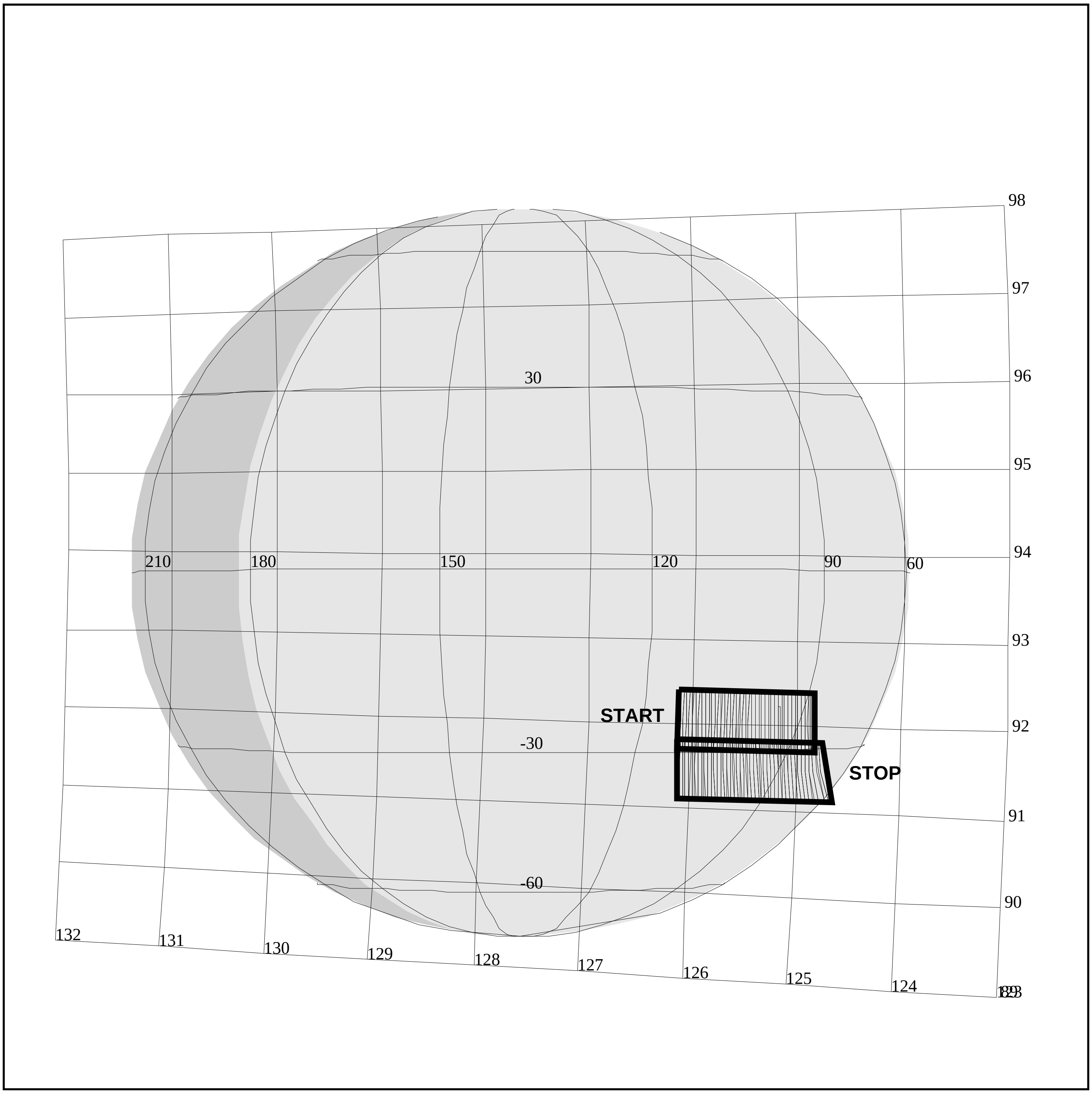
Design Detail

Short map, Nyquist-sampled observation of a 2*1 (20*10 mrad) scan of the southern equatorial region,one tier to the north of the SEB primary campaign feature, followed by a 1*1 (10*10 mrad) scan of the adjacent territory just to the east of the SEB campaign feature. S/C distance about 1.04 milllion KM, NIMS IFOV (NIMSEL) = 520 KM; 2*1 mosaic covers 20800*10400 KM, 1*1 scan cove 10400*10400 KM. About 320 seconds of scanning, accumulating 0.2875 mbtg in 4 colors, and using 0.01075 tracks. 2 rims reserved for targetting.

NOTE: AS OF 12/11/96, NO DATA FROM THIS OBSERVATION WILL BE TRANSMITTED TO THE GROUND.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form   01/21/97 14:44:47   rev 6/95



165DN:TT= 0 TMC= 1 C= 4.50 XC= 8.00 BS= 0/2516 TC= 1(-33 107)
A= 182 pD= 0 SR=17.450 RA50=252.14 DEC50=-25.72 cone=126.14 clock= 92.04
117DN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2516
1:#s= 2 Cs= -21.90 XCs= 0.00 Cr= 21.90 XCr= -8.00 sD= 600 rD= 40

E6JNPFTB4802

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNPFTB4802

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 1245:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNPFTB4802

DESCRIP:JUP_FEAT_TRK_48_DEG_PHASE_0

Jupiter Feature Track B 48 deg part 2   ACTIVITY ID: E6JNPFTB4802-
START TIME: 97-050/23:52:35.267

Activity ID: Orbit E6 Target J Inst N OAPEL PFTB48 SeqNo 02 -

Title	Jupiter Feature Track B 48 deg part 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/19/97	Week 8

Start	JEE-CDS	00001246:40:0	97-050/23:52:35.267	JEE-000/21:00:17.333
End	JEE-CDS	00001238:00:0	97-051/00:01:07.267	JEE-000/20:51:45.333
Duration		00000008:40:0	000/00:08:32.000	000/00:08:32.000

Top Label   E6JNPFTB4802-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the White Oval DE feature track, the second also to see White Oval BC. This is the fourth observation of this feature obtained on a rotation with phase angle approximately 48 degrees.
Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A.
This observation acquired with White Oval DE between the central meridian and the minimum airmass point, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*2 (20*18 mrad) area positioned with White Oval DE in lower left-hand frame assuming feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic)
S/C distance about 1.04 million KM, NIMS IFOV (NIMSEL) = 520 KM; 2*2 mosaic covers 20800*18720 KM with a 20% overlap between tiers. About 420 seconds of scanning (including 20 secs for reposition slews), accumulating 0.07 mbtg in 4 colors, and using 0.01411 tracks. 2 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT20A

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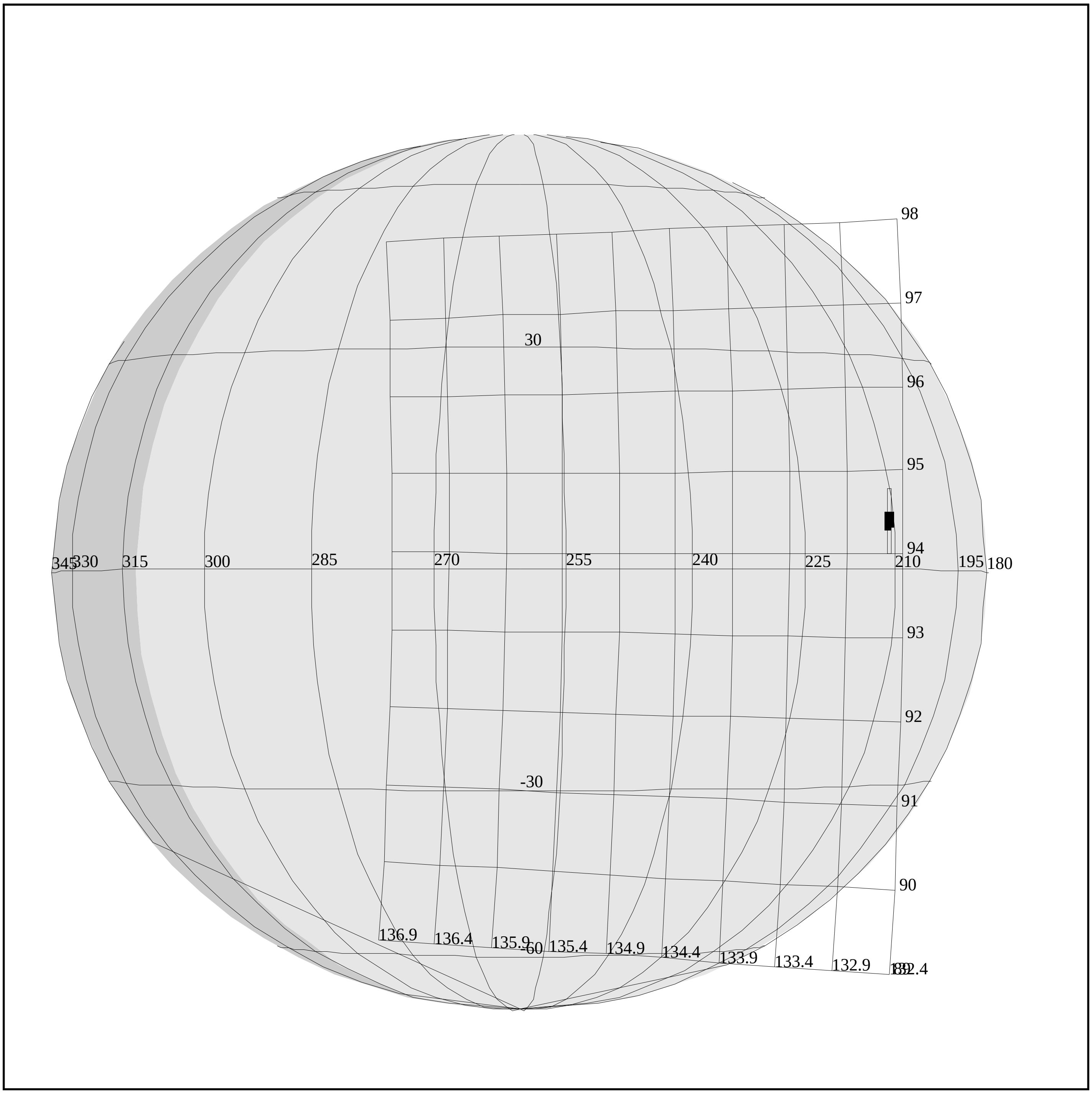

165FJ:TT= 0 TMC= 1 C= 0.93 XC= 0.00 BS= 0/1100 TC= 1(6.5 210)
A= 546 pD= 0 SR=17.450 RA50=259.36 DEC50=-24.41 cone=132.56 clock= 94.39
117FJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1100
1:#s= 1 Cs= -1.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

E6JNRTHOTS01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNRTHOTS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 -CDS 509:00:0

OBSERVATION:E6JNRTHOTS01

THINNING:NIM 7

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:JUPITER_REAL_TIME_HOTSPOT

Jupiter Real-Time Hotspot		ACTIVITY ID:	E6JNRTHOTS01-
		START TIME:	97-051/03:24:21.333

Activity ID: Orbit E6 Target J Inst N OAPEL RTHOTS SeqNo 01 -

Title	Jupiter Real-Time Hotspot			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	IEE-CDS	00000513:00:0	97-051/03:24:21.333	IEE-000/08:38:42.000
End	IEE-CDS	00000506:00:0	97-051/03:31:26.000	IEE-000/08:31:37.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	E6JNRTHOTS01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

4 Longmap spectra of the Hotspot region at 500 km/pixel on Jupiter.
Determination of water and phosphine content within the Hotspot
are primary objectives.

Data Returned

Design Detail

Long map real-time 1-rim spectra at 4 mirror positions centered on the
Hotspot region.
NIMSel coordinates: 265 degrees West longitude, 6.5 degrees North latitude.
Acquired near the central meridian at approximately 42 degrees phase angle.
Spatial resolution: 500 km/pixel.
CDS 02:70:0 used for targetting.

Mirror Blocked (1B,1B) (11011,11011)
1 Rim RealTime

Long Map (LM), Gain 2, Grating Start 0, R/T, JLM408

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NIMS E6 Reload		ACTIVITY ID:	E6NIMSP2LD08-
		START TIME:	97-051/03:48:37.333

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 08 -

Title	NIMS E6 Reload			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	IEE-CDS	00000489:00:0	97-051/03:48:37.333	IEE-000/08:14:26.000
End	IEE-CDS	00000479:81:0	97-051/03:57:50.000	IEE-000/08:05:13.333
Duration		00000009:10:0	000/00:09:12.667	000/00:09:12.667

Top Label	E6NIMSP2LD08-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

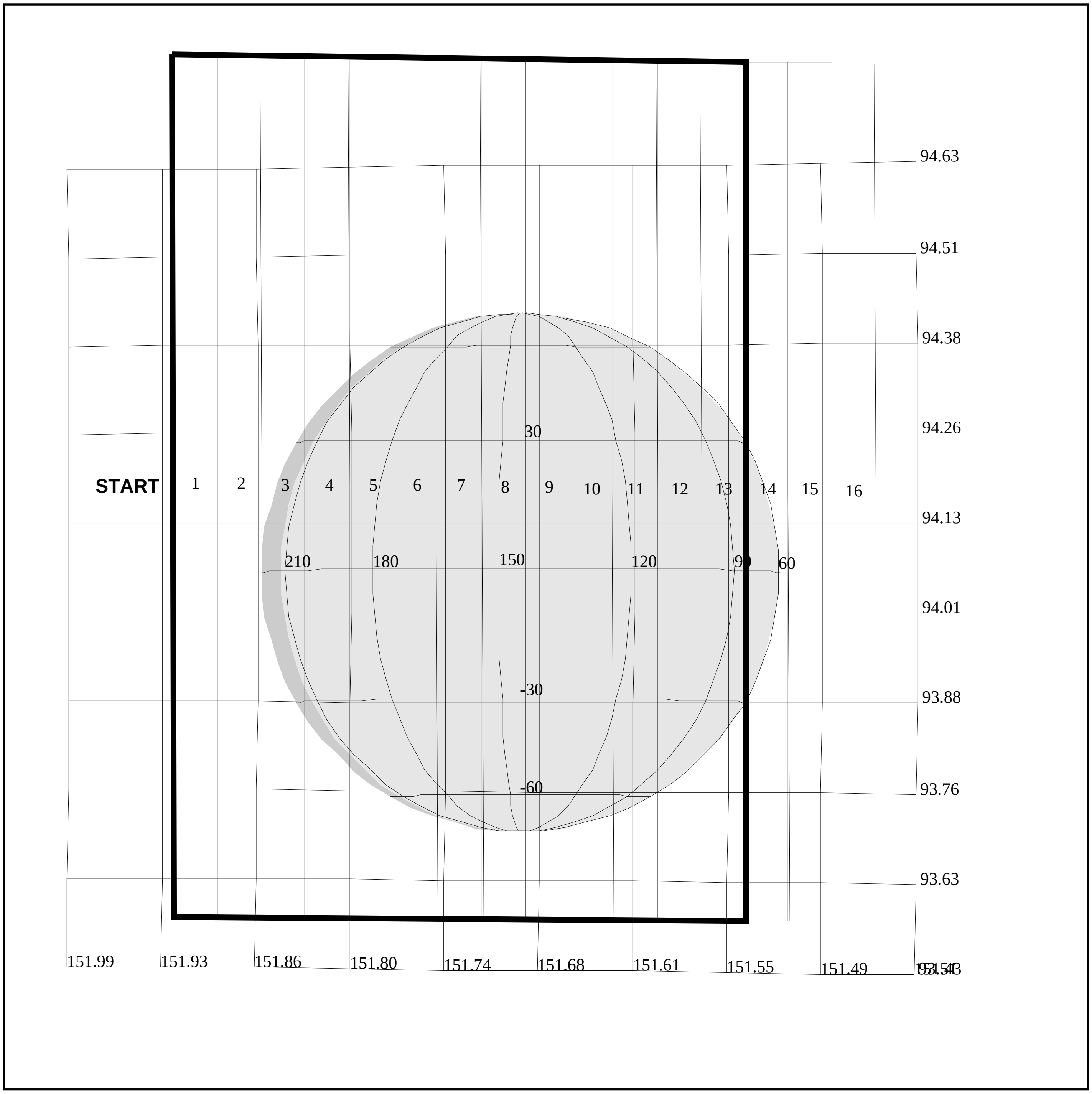
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Galileo Activity Plan Form   01/21/97 14:44:48   rev 6/95



165DO:TT= 0 TMC= 1 C= 3.90 XC= 1.00 BS= 0/7288 TC= 3
A= 728 pD= 0 SR=17.450 RA50=280.62 DEC50=-24.24 cone=151.91 clock= 94.19
117DO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7288
1:#s= 1 Cs= -8.05 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 814 rD= 2

E6INCHEMIS02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INCHEMIS02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 -CDS 475:00:0

OBSERVATION:E6INCHEMIS02

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:MONITORING OF IO DAYSIDE

Monitoring of IO's Dayside		ACTIVITY ID:	E6INCHEMIS02-
		START TIME:	97-051/03:57:54.000

Activity ID: Orbit E6 Target I Inst N OAPEL CHEMIS SeqNo 02 -

Title	Monitoring of IO's Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	IEE-CDS	00000479:75:0	97-051/03:57:54.000	IEE-000/08:05:09.333
End	IEE-CDS	00000470:00:0	97-051/04:07:50.000	IEE-000/07:55:13.333
Duration		00000009:75:0	000/00:09:56.000	000/00:09:56.000

Top Label	E6INCHEMIS02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

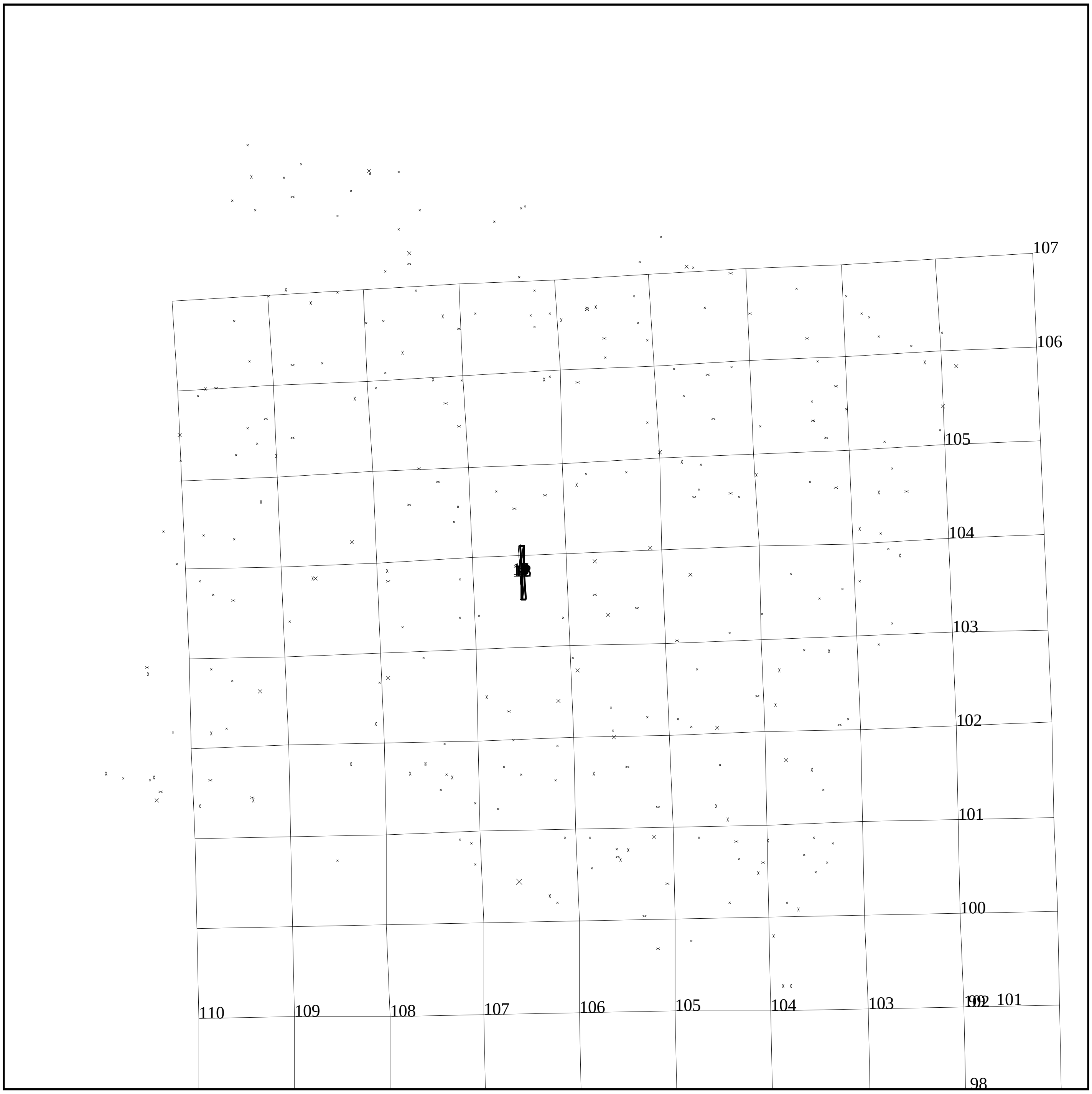
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILM384

Galileo Activity Plan Form   01/21/97 14:44:48   rev 6/95



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A= 728 pD= 0 SR=17.450 RA50=234.00 DEC50=-11.50 cone=106.50 clock=103.82

E6HNDARK__02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 -CDS 396:00:0

OBSERVATION:E6HNDARK__02

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

DESCRIP:DARK OBSERVATION

Dark Observation		ACTIVITY ID:	E6HNDARK__02-
		START TIME:	97-051/05:17:36.000

Activity ID: Orbit E6 Target H Inst N OAPEL DARK SeqNo 02 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	IEE-CDS	00000401:00:0	97-051/05:17:36.000	IEE-000/06:45:27.333
End	IEE-CDS	00000394:00:0	97-051/05:24:40.667	IEE-000/06:38:22.666
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	E6HNDARK__02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the E6 orbit for purposes of calibration.

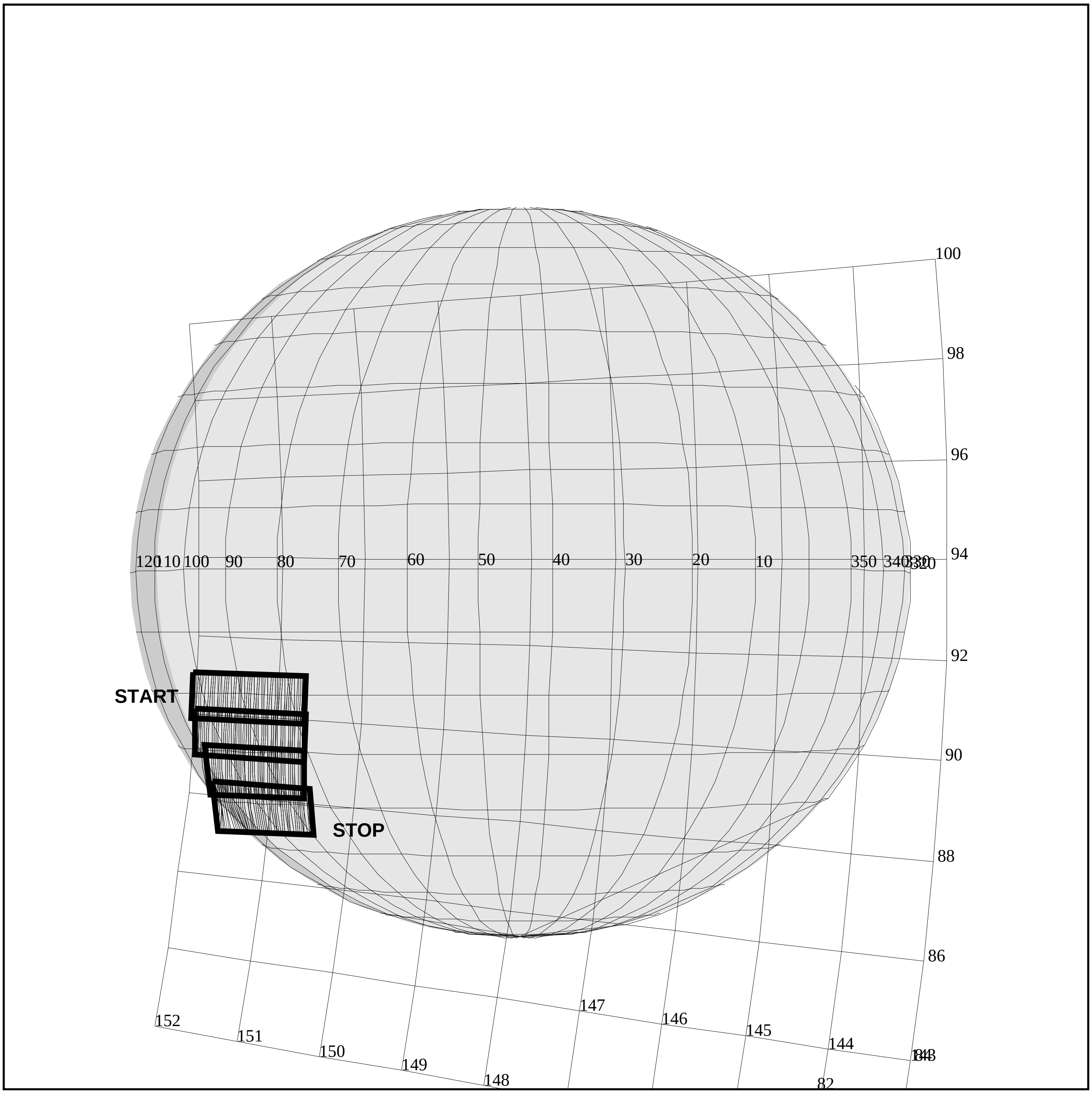
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in short-map mode.

Long Map (LM), Gain 2, Grating Start 0, LPU, DRK34, DRK32

Galileo Activity Plan Form   01/21/97 14:44:48   rev 6/95



165DQ:TT= 0 TMC= 1 C= 20.00 XC= 14.50 BS= 0/7692 TC= 1(-33 87)
A= 728 pD= 0 SR=17.450 RA50=280.99 DEC50=-25.95 cone=152.04 clock= 90.48
117DQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7692
1:#s= 4 Cs= -22.40 XCs= 0.00 Cr= 23.50 XCr= -8.00 sD= 618 rD= 36

E6JNFEA02001

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 -CDS 777:00:0

OBSERVATION:E6JNFEA02001

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

DESCRIP:JUP_FEAT_TRK_20_DEG_PHS_01

Jupiter Feature Track 20 deg phase pt 1	ACTIVITY ID:	E6JNFEA02001-
	START TIME:	97-051/07:42:11.267

Activity ID: Orbit E6 Target J Inst N OAPEL FEA020 SeqNo 01 -

Title	Jupiter Feature Track 20 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE-CDS	00000782:00:0	97-051/07:42:11.267	JEE-000/13:10:41.333
End	JEE-CDS	00000762:00:0	97-051/08:02:24.600	JEE-000/12:50:28.000
Duration		00000020:00:0	000/00:20:13.333	000/00:20:13.333

Top Label	E6JNFEA02001-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the White Oval feature tracks for this feature campaign. This is the first observation obtained on this rotation. White Oval DE near the terminator. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature 33 degrees south latitude (planetographic) and 91.5 degrees west longitude.

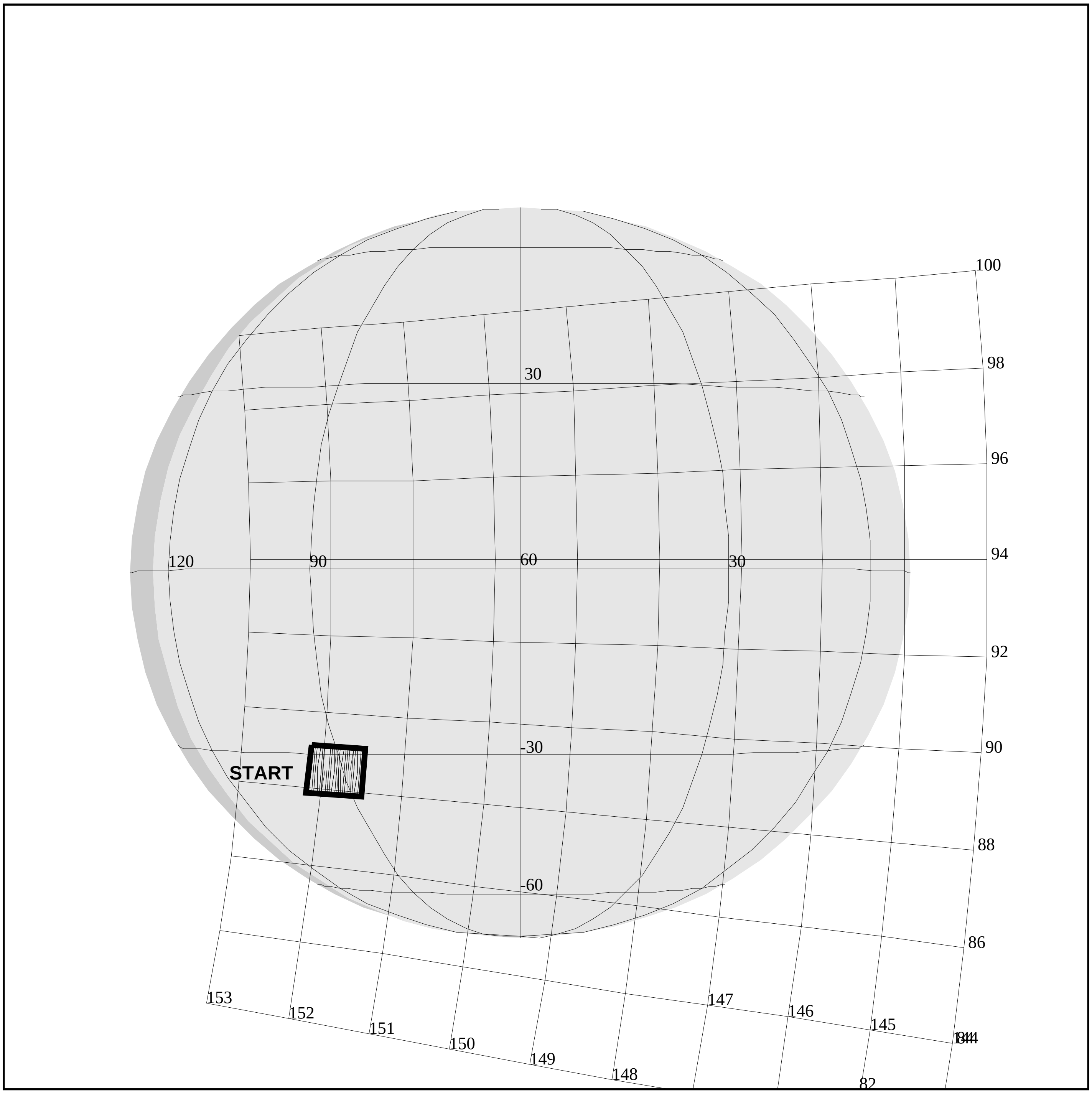
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*4 (20*34 mrad) contiguous area. The White Oval DE primary feature is located about half way across the second tier. S/C distance about 0.83 million KM, NIMS IFOV (NIMSEL) = 415 KM; 2*4 mosaic covers 16600*28230 KM with a 20% overlap between tiers. About 860 seconds of scanning, including 60 secs for 3 reposition slews. Data accumulated .15 mbtg in 4 colors, and using 0.02889 tracks.
4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT20A

Galileo Activity Plan Form   01/21/97 14:44:48   rev 6/95



165DR:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/2788 TC= 1(-33 91.5)
A= 364 pD= 0 SR=17.450 RA50=281.30 DEC50=-26.85 cone=152.16 clock= 88.51
117DR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2788
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA02002

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 749:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEA02002

DESCRIP:JUP_FEAT_TRK_20_DEG_PHASE_02

Jupiter Feature Track 20 deg phase pt 2	ACTIVITY ID:	E6JNFEA02002-
	START TIME:	97-051/08:12:31.267

Activity ID: Orbit E6 Target J Inst N OAPEL FEA020 SeqNo 02 -

Title	Jupiter Feature Track 20 deg phase pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE-CDS	00000752:00:0	97-051/08:12:31.267	JEE-000/12:40:21.333
End	JEE-CDS	00000747:00:0	97-051/08:17:34.600	JEE-000/12:35:18.000
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label	E6JNFEA02002-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 20 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature (the White Oval DE) near 45 degrees relative longitude, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 0.81 milllion KM, NIMS IFOV (NIMSEL) = 405 KM; 1*1 mosaic covers 8100*8100 KM. About 100 seconds of scanning, accumulating 0.1182 mbtg in 25 colors, and using 0.00336 tracks. 2 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

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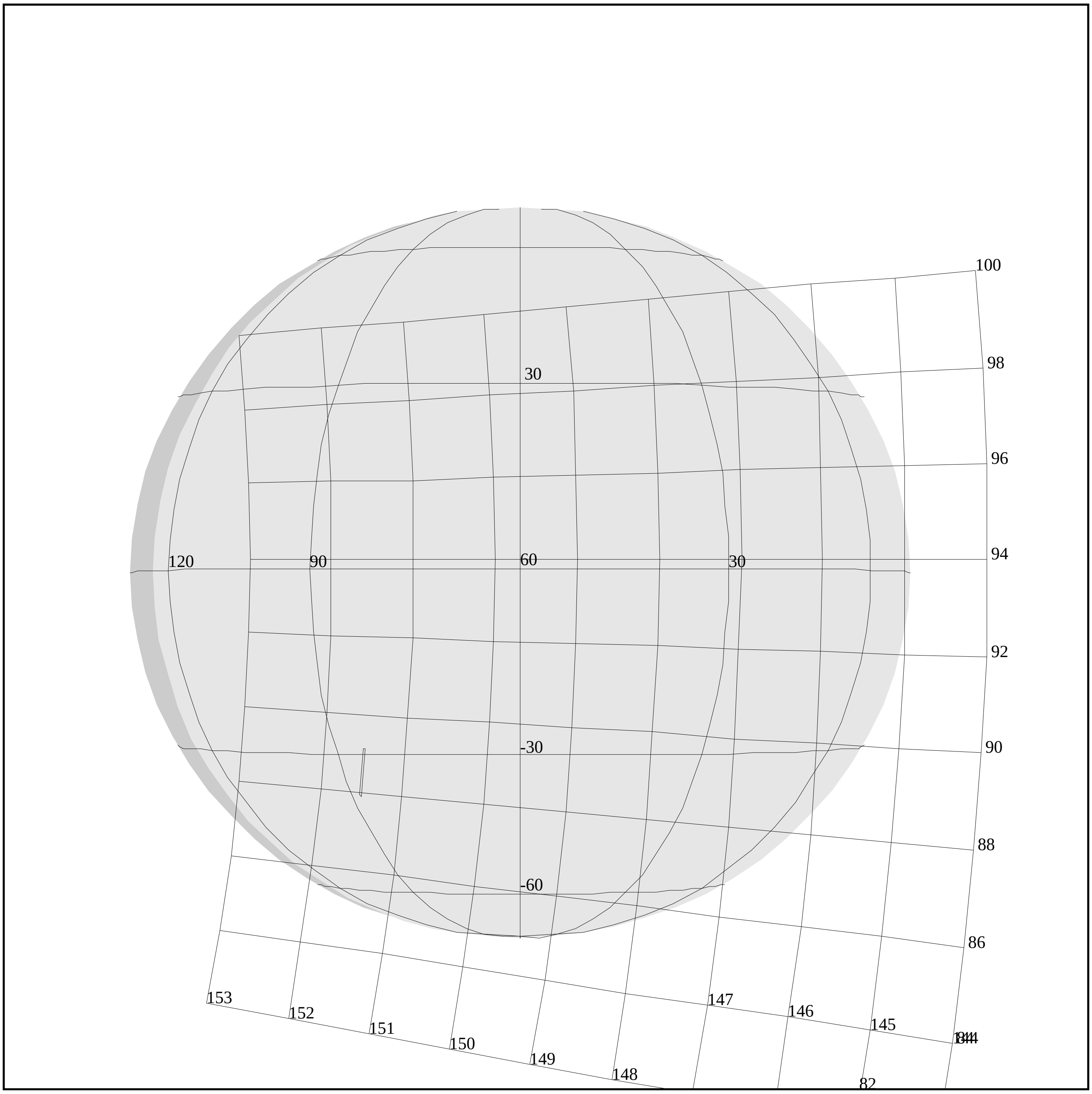

165DR:TT= 0 TMC= 1 C= 5.50 XC= 0.00 BS= 0/2788 TC= 1(-33 91.5)
A= 364 pD= 0 SR=17.450 RA50=281.30 DEC50=-26.85 cone=152.16 clock= 88.51
117DR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2788
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6NNHEALTH02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 -CDS 749:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA02002 **DESCRIP:JUP_FEAT_TRK_20_DEG_PHASE_02**

E6 Health 2	ACTIVITY ID: E6NNHEALTH02- START TIME: 97-051/08:17:41.267

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 02 -

Title	E6 Health 2			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE-CDS	00000746:81:0	97-051/08:17:41.267	JEE-000/12:35:11.333
End	JEE-CDS	00000741:00:0	97-051/08:23:38.600	JEE-000/12:29:14.000
Duration		00000005:81:0	000/00:05:57.333	000/00:05:57.333

Top Label E6NNHEALTH02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Required to verify insturment operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6JNFEA02002

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load	ACTIVITY ID: E6NIMSP2LD02- START TIME: 97-051/08:23:45.267

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 02 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE-CDS	00000740:81:0	97-051/08:23:45.267	JEE-000/12:29:07.333
End	JEE-CDS	00000732:80:0	97-051/08:31:51.267	JEE-000/12:21:01.333
Duration		00000008:01:0	000/00:08:06.000	000/00:08:06.000

Top Label	E6NIMSP2LD02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

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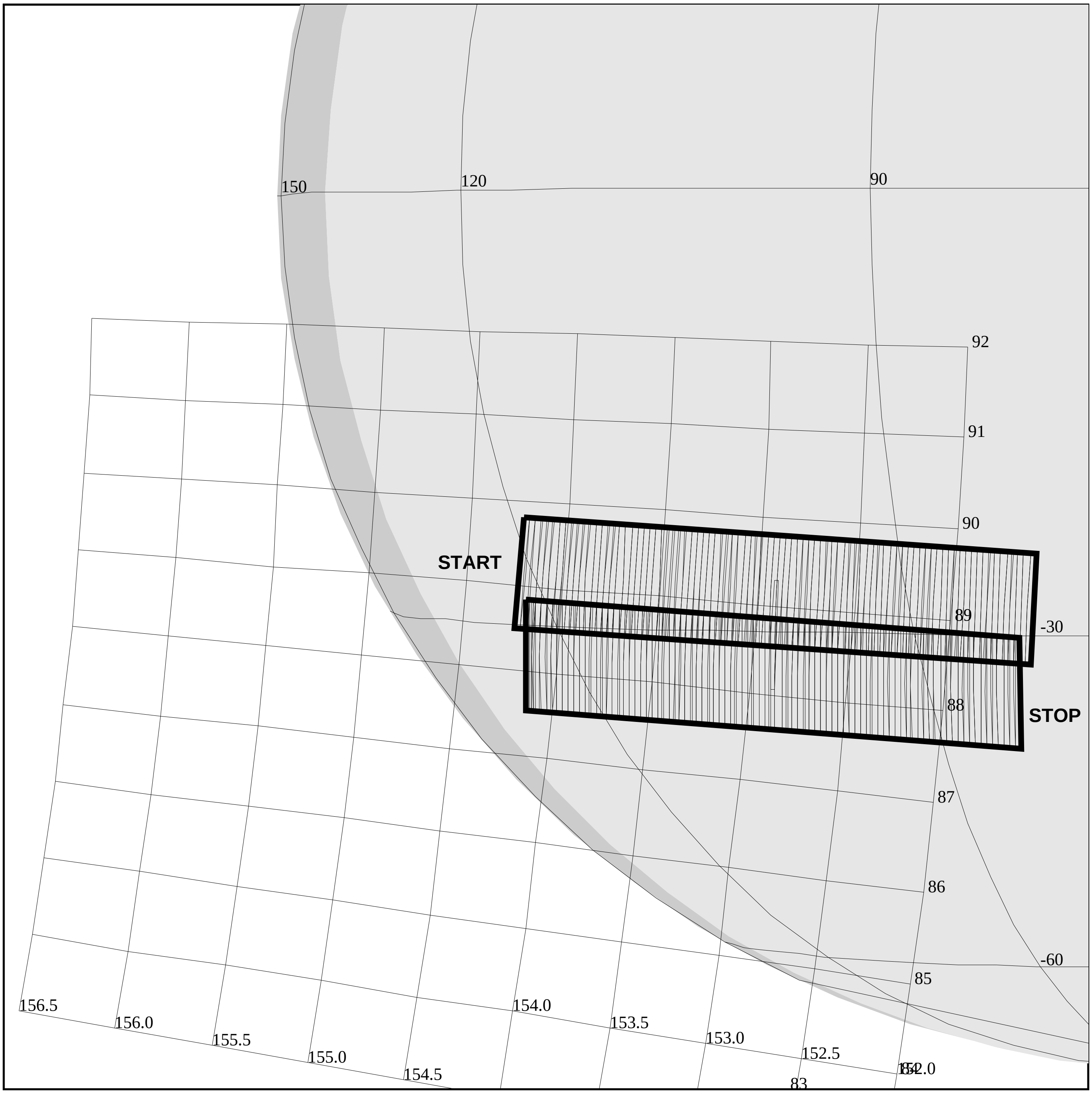

165DS:TT= 0 TMC= 1 C= 35.00 XC= 6.50 BS= 0/6246 TC= 1(-33 91.5)
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117DS:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6246
1:#s= 2 Cs= -44.30 XCs= 0.00 Cr= 47.30 XCr= -8.00 sD= 1212 rD= 60

E6JNFEA02003

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 -CDS 730:00:0

OBSERVATION:E6JNFEA02003

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.800

DESCRIP:JUP_FEAT_TRK_20_DEG_PHS_03

Jupiter Feature Track 20 deg phase pt 3 ACTIVITY ID: E6JNFEA02003-
START TIME: 97-051/08:31:54.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA020 SeqNo 03 -

Title	Jupiter Feature Track 20 deg phase pt 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE-CDS	00000732:75:0	97-051/08:31:54.600	JEE-000/12:20:58.000
End	JEE-CDS	00000715:00:0	97-051/08:49:55.934	JEE-000/12:02:56.666
Duration		00000017:75:0	000/00:18:01.334	000/00:18:01.334

Top Label E6JNFEA02003-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. Both White Oval BC and DE observed. This is the third observation of White Oval DE, the second of White Oval BC obtained on a rotation with phase angle approximately 20 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with features coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*4 (20*34 mrad) contiguous area. The White Oval feature target at 33 degrees south latitude (planetographic), 91.5 degrees west longitude is located 5 mrad from the start of the second tier. S/C distance about 0.79 million KM, NIMS IFOV (NIMSEL) = 395 KM;
2*4 mosaic covers 15800*26860 KM with a 20% overlap between tiers.
About 860 seconds of scanning, including 60 secs total for 3 reposition slews.
Data accumulated .96 mbtg in 25 colors, and using 0.02889 tracks.
2 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

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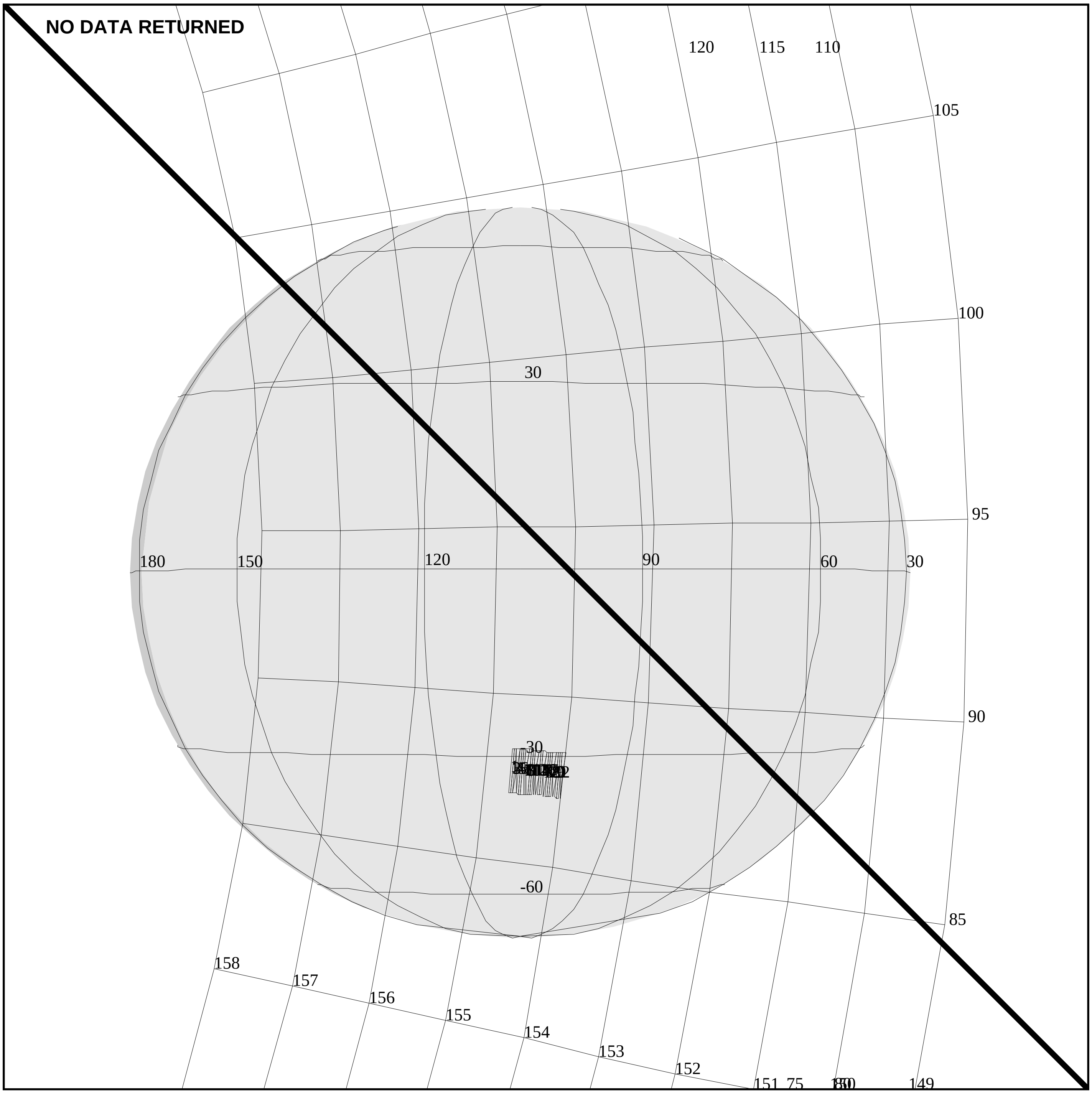

165DT:TT= 0 TMC= 1 C= 6.00 XC= 0.00 BS= 0/8258 TC= 1(-33 104)
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117DT:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8258
1:#s= 1 Cs= -10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA02004

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA02004

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 664:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEA02004

DESCRIP:JUP_FEAT_TRK_20_DEG_PHASE_04

Jupiter Feature Track 20 deg phase pt 4	ACTIVITY ID: E6JNFEA02004- START TIME: 97-051/09:38:27.934

Activity ID: Orbit E6 Target J Inst N OAPEL FEA020 SeqNo 04 -

Title	Jupiter Feature Track 20 deg phase pt 4			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE-CDS	00000667:00:0	97-051/09:38:27.934	JEE-000/11:14:24.666
End	JEE-CDS	00000659:00:0	97-051/09:46:33.267	JEE-000/11:06:19.333
Duration		00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label   E6JNFEA02004-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the fourth observations obtained on a rotation with phase angle approximately 20 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature (a region within the SEB) near minimum airmass, assuming feature coordinates 10 degrees south latitude and 102 degrees west longitude (System III).

NOTE: AS OF 12/11/96, OAPEL DELETED TO SAVE DOWNLINK RESOURCES.

No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on SEB feature near 102 degrees West longitude, 10 degrees South latitude. S/C distance about 0.75 million KM, NIMS IFOV (NIMSEL) = 375 KM; 1*1 mosaic covers 7500*7500 KM. About 100 seconds of scanning, accumulating 0.08983 mbtg in 19 colors, and using 0.00336 tracks. 2 rims reserved for targetting.

NOTE: AS OF 12/11/96, OAPEL DELETED TO SAVE DOWNLINK RESOURCES.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT20A

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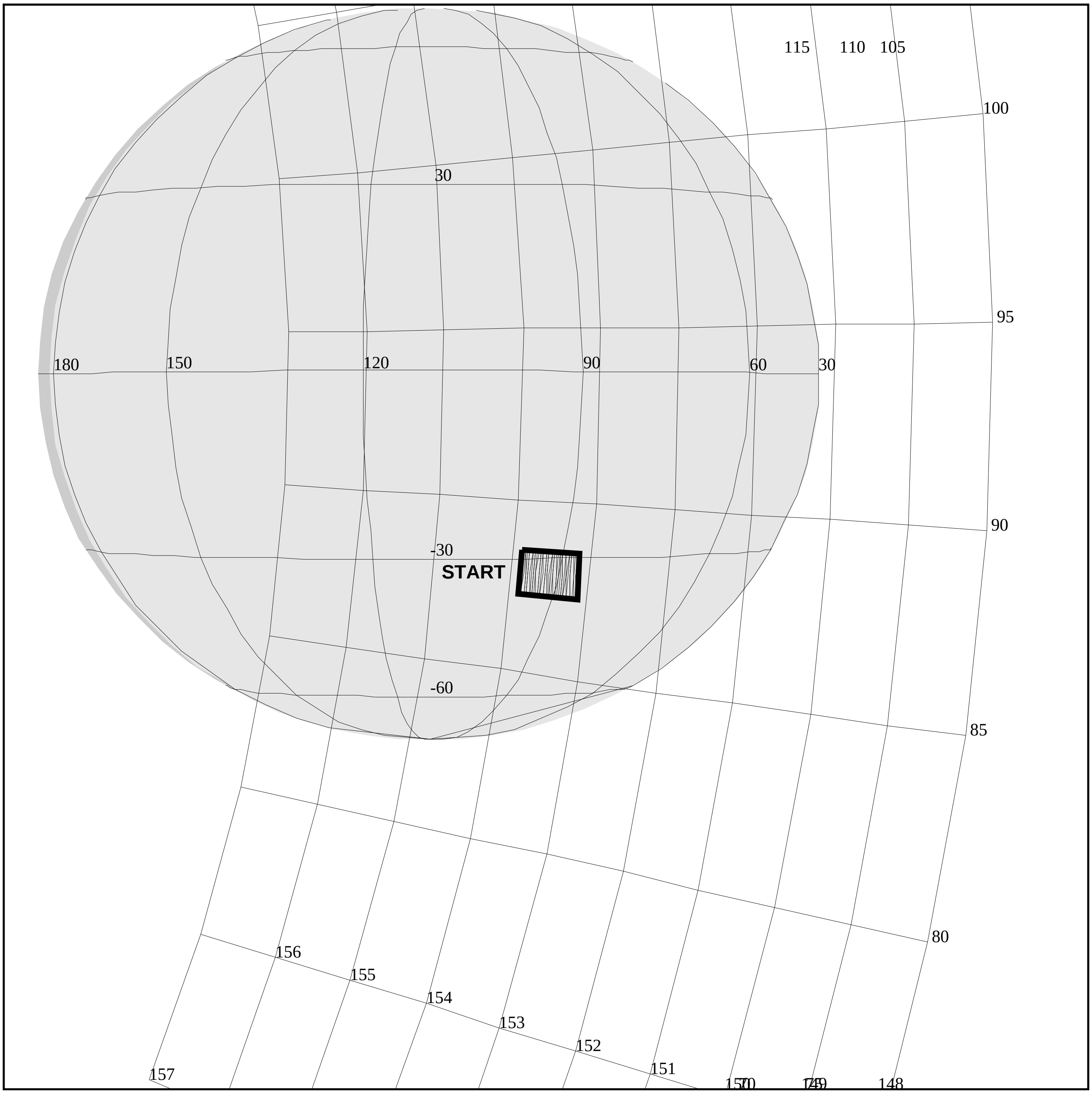

165DU:TT= 0 TMC= 1 C= 6.50 XC= 0.00 BS= 0/9714 TC= 1(-33 91.5)
A= 182 pD= 0 SR=17.450 RA50=283.27 DEC50=-26.77 cone=153.90 clock= 87.90
117DU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9714
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

E6JNFEASUB01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 -CDS 656:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEASUB01

DESCRIP:JUP_CAMP_FEAT_SUB_SPECTRA

Jupiter Campaign Feature sub-spectra		ACTIVITY ID:	E6JNFEASUB01-
		START TIME:	97-051/09:47:33.934

Activity ID: Orbit E6 Target J Inst N OAPEL FEASUB SeqNo 01 -

Title	Jupiter Campaign Feature sub-spectra			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE-CDS	00000658:00:0	97-051/09:47:33.934	JEE-000/11:05:18.666
End	JEE-CDS	00000649:00:0	97-051/09:56:39.934	JEE-000/10:56:12.666
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	E6JNFEASUB01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution map of campaign feature (White Oval DE at 33 degrees south latitude, 91.5 degrees west longitude), acquired in several CH4 and H2 absorption features. This single partial-spectra map obtained under good lighting conditions (near central meridian at low phase angle). During this phase angle ~20 degrees rotation, Jupiter imaged in 80 colors distributed among five spectral regions, using NIMS downlink wavelength table JSB80A.

Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the White Oval DE campaign feature. S/C distance about 0.75 million KM. NIMS IFOV = 375 KM. Map covers 7500*7500 km. About 6 minutes of scanning accumulating 0.36255 MBTG and using 0.01209 tracks.
1 rim reserved for targetting.

Long Map (LM), Gain 2, Grating Start 0, LPU, JSB253A, JSB80A

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NIMS E6 Reload                           ACTIVITY ID:   E6NIMSP2LD10-
                                          START TIME:   97-051/11:39:48.000

Activity ID: Orbit E6  Target N  Inst I  OAPEL MSP2LD  SeqNo 10 -

Title        NIMS E6 Reload                                Instrument      NIMS
Requestor    NIMS-SWG/M. SEGURA         Team   NIMS  Working Group    SWG

Time System  CDS       Load ID          Calendar Date  02/20/97  Week   8

Start        ETE-CDS 00000323:00:0 97-051/11:39:48.000   ETE-000/05:26:35.333
End          ETE-CDS 00000313:00:0 97-051/11:49:54.667   ETE-000/05:16:28.666
Duration             00000010:00:0    000/00:10:06.667       000/00:10:06.667

Top Label    E6NIMSP2LD10-
Bottom Label

Plot Key     NIMS      Type            SCI
CDS Bytes          0   Report Options  BOTH         Scan Platform      No
CDS Source   OAP       Spin State      DUAL         DMS                No
```

Observation Objective

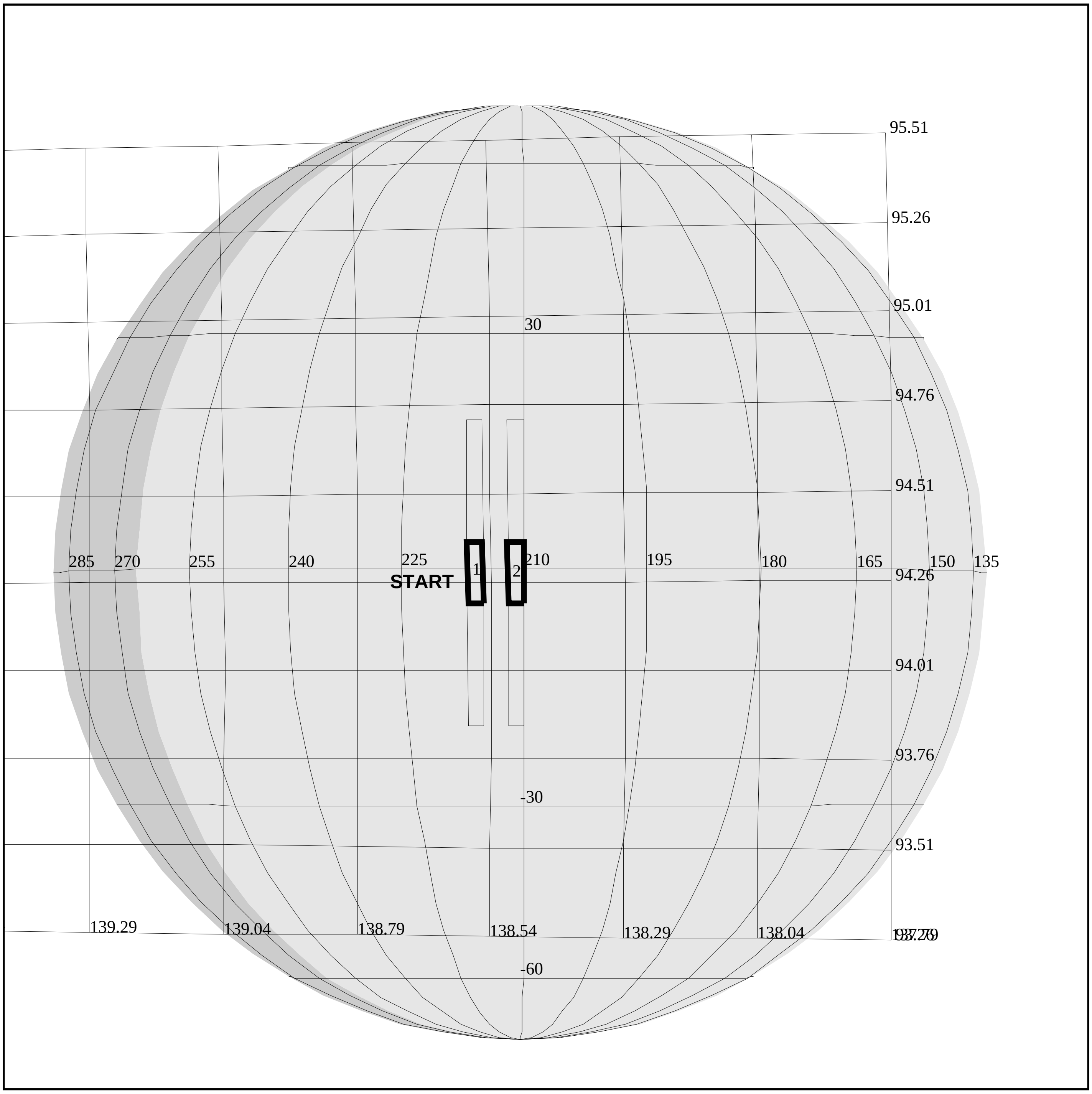
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

```
6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor (37PL)
37MRL  - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT  - Instrument Reset
37MN   - Memory Normal
37IST  - Chopper Reference
```

Galileo Activity Plan Form   01/21/97 14:44:49   rev 6/95



165FK:TT= 0 TMC= 1 C= 1.60 XC= 0.00 BS= 0/3192 TC= 3
A= 546 pD= 0 SR=17.450 RA50=265.96 DEC50=-24.71 cone=138.57 clock= 94.29
117FK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3192
1:#s= 1 Cs= -3.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

E6ENEURORT01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENEURORT01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 7

START:EEE 97-051/17:03:21.333 -CDS 300:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:E6ENEURORT01

DESCRIP:EUROPA_REAL_TIME_OBS

Europa Real Time Observation		ACTIVITY ID:	E6ENEURORT01-
		START TIME:	97-051/11:55:58.667

Activity ID: Orbit E6 Target E Inst N OAPEL EURORT SeqNo 01 -

Title	Europa Real Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/A. Ocampo	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	EEE-CDS	00000304:00:0	97-051/11:55:58.667	EEE-000/05:07:22.666
End	EEE-CDS	00000298:05:0	97-051/12:01:59.333	EEE-000/05:01:22.000
Duration		00000005:86:0	000/00:06:00.666	000/00:06:00.666

Top Label	E6ENEURORT01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

This observation is required to improve wavelength selection for the Europa E6 observations that have low albedo.

NIMS mode LM, mirror block, 408 wavelengths.

Data Returned

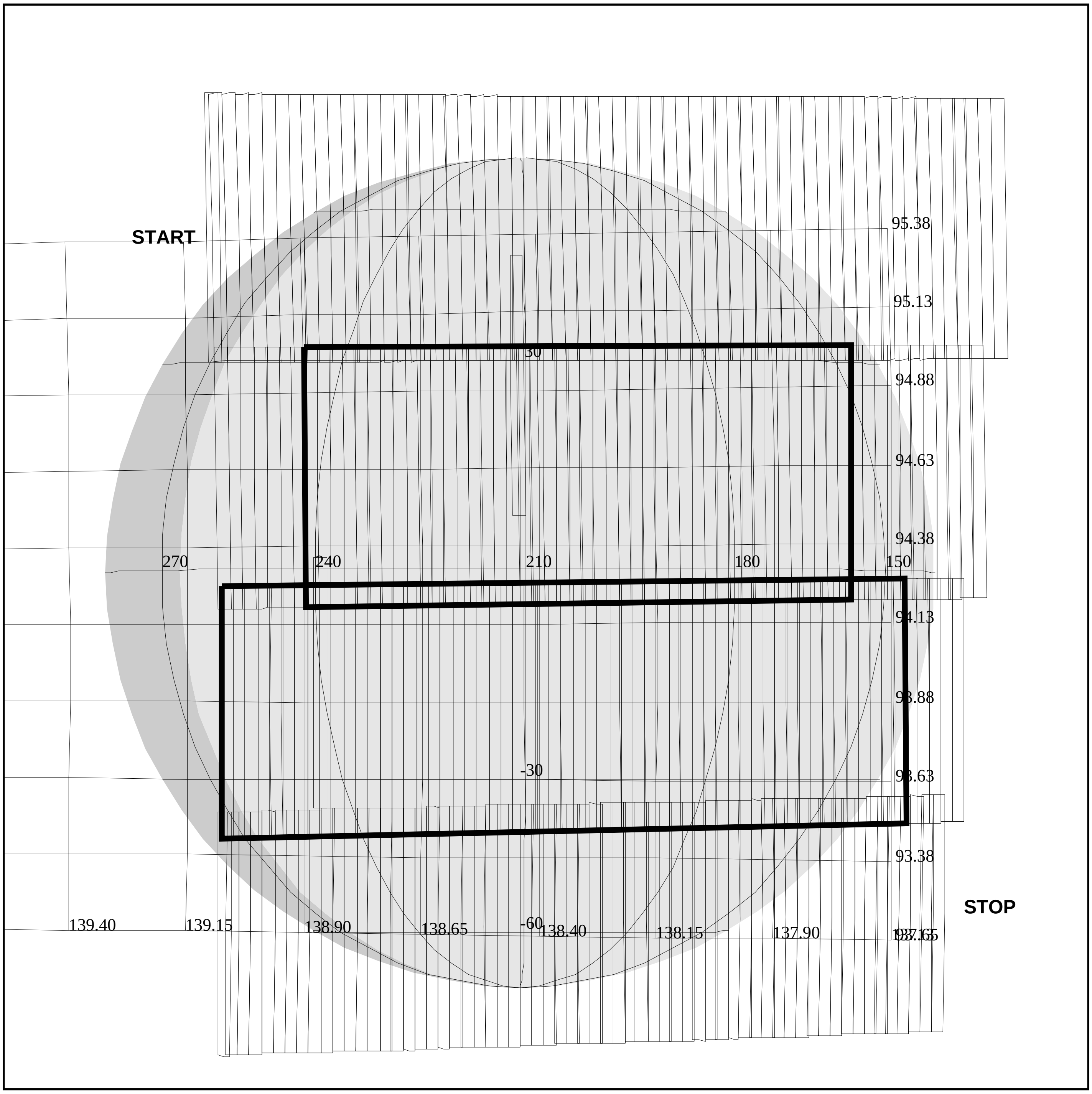
Design Detail

Point at center of EUROPA.

Mirror Blocked (1B,1B) (11011,11011)
2 Rims RealTime

Long Map (LM), Gain 2, Grating Start 0, R/T, ELM408

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165DV:TT= 0 TMC= 1 C= 11.30 XC= 13.00 BS=10/3738 TC= 3
A= 182 pD= 0 SR=17.450 RA50=266.54 DEC50=-23.98 cone=139.09 clock= 95.42
117DV:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS=10/3738
1:#s= 4 Cs= -32.25 XCs= 0.00 Cr= 30.40 XCr= -9.00 sD= 1616 rD= 20

E6ENTERINC01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENTERINC01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:EEE 97-051/17:03:21.333 -CDS 297:00:0

OBSERVATION:E6ENTERINC01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

DESCRIP:EUROPA GLOBAL MOSAIC/160-240 DEG

Europa Terra Incognito	ACTIVITY ID: E6ENTERINC01- START TIME: 97-051/12:02:02.667

Activity ID: Orbit E6 Target E Inst N OAPEL TERINC SeqNo 01 -

Title	Europa Terra Incognito			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 02/20/97 Week 8

Start	EEE-CDS	00000298:00:0	97-051/12:02:02.667	EEE-000/05:01:18.666
End	EEE-CDS	00000261:05:0	97-051/12:39:24.000	EEE-000/04:23:57.333
Duration		00000036:86:0	000/00:37:21.333	000/00:37:21.333

Top Label E6ENTERINC01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part of Global Mosic of EUROPA, longitudes 160 to 240 degrees at a resolution of 50 kilometers.

Data Returned

Design Detail

DISTANCE: 99,000 KM	MODE: LONG MAP	TRACKS:0.0289
SLEW RATE: 110 MR/S	LONG SPAN:160-240 DEG	CONE: 144 DEG
% OVERLAP: 30	LAT SPAN: N/S 90 DEG	WAVELENGHTS: 102
NUM STRIPS: 4	% COVERAGE: 55	RESOLUTION: 50 KM/PIX
NIMS F.O.V./STRIP: 30	SUB S/C LONG: 209 DEG	BOOMS: NOT IN F.O.V.
DMS MODE: 7.68	SUB S/C LAT: -0.84 DEG	ASD: 2.255 DEG
AREA COV IN PIX: 1722	GAIN: 3	INCID ANGLE: 11-88 DEG
EMM ANGLE: 11-90 DEG	PHASE: 35 DEG	TLM:MPW

Swath 1, Gain State 3 Not Returned
Swath 2, Gain State 2 6 of 9 Rims Returned (B)
Swath 3, Gain State 3 8 of 9 Rims Returned (A)
Swath 4, Gain State 3 Not Returned

Full Map (FM), Gains 3,2,3, Grating Start 0, MPW, EFM221, EFM192

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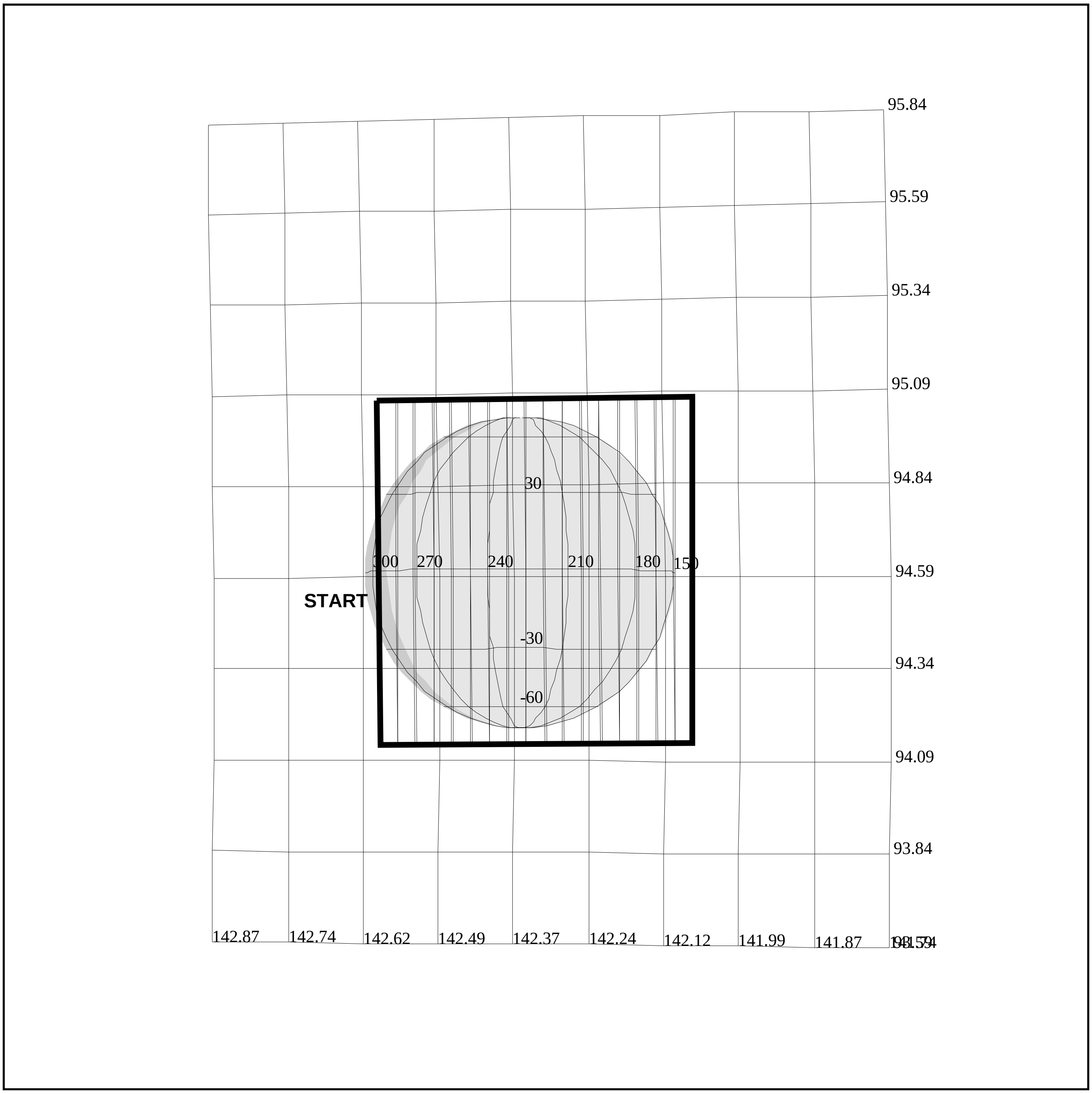

165DX:TT= 0 TMC= 1 C= 4.00 XC= 0.00 BS= 0/0654 TC= 3
A= 182 pD= 0 SR=17.450 RA50=270.38 DEC50=-24.52 cone=142.59 clock= 94.60
117DX:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0654
1:#s= 1 Cs= -8.55 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 860 rD= 2

E6INHRSPEC01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 +CDS 38:00:0

OBSERVATION:E6INHRSPEC01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:HIGH SPATIAL/SPECTRAL OBS OF IO

High spatial and spectral Obs of IO	ACTIVITY ID:	E6INHRSPEC01-
	START TIME:	97-051/12:39:27.333

Activity ID: Orbit E6 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	High spatial and spectral Obs of IO			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	IEE+CDS	00000036:00:0	97-051/12:39:27.333	IEE+000/00:36:24.000
End	IEE+CDS	00000043:00:0	97-051/12:46:31.999	IEE+000/00:43:28.666
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label E6INHRSPEC01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Mapping observation of Io's dayside at high spatial and spectral resolutions. Objective is to search for both known and yet unknown spectral features.

Data Returned

Design Detail

Global mosaic in Long Map (408 wavelengths).

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM245, ILM216

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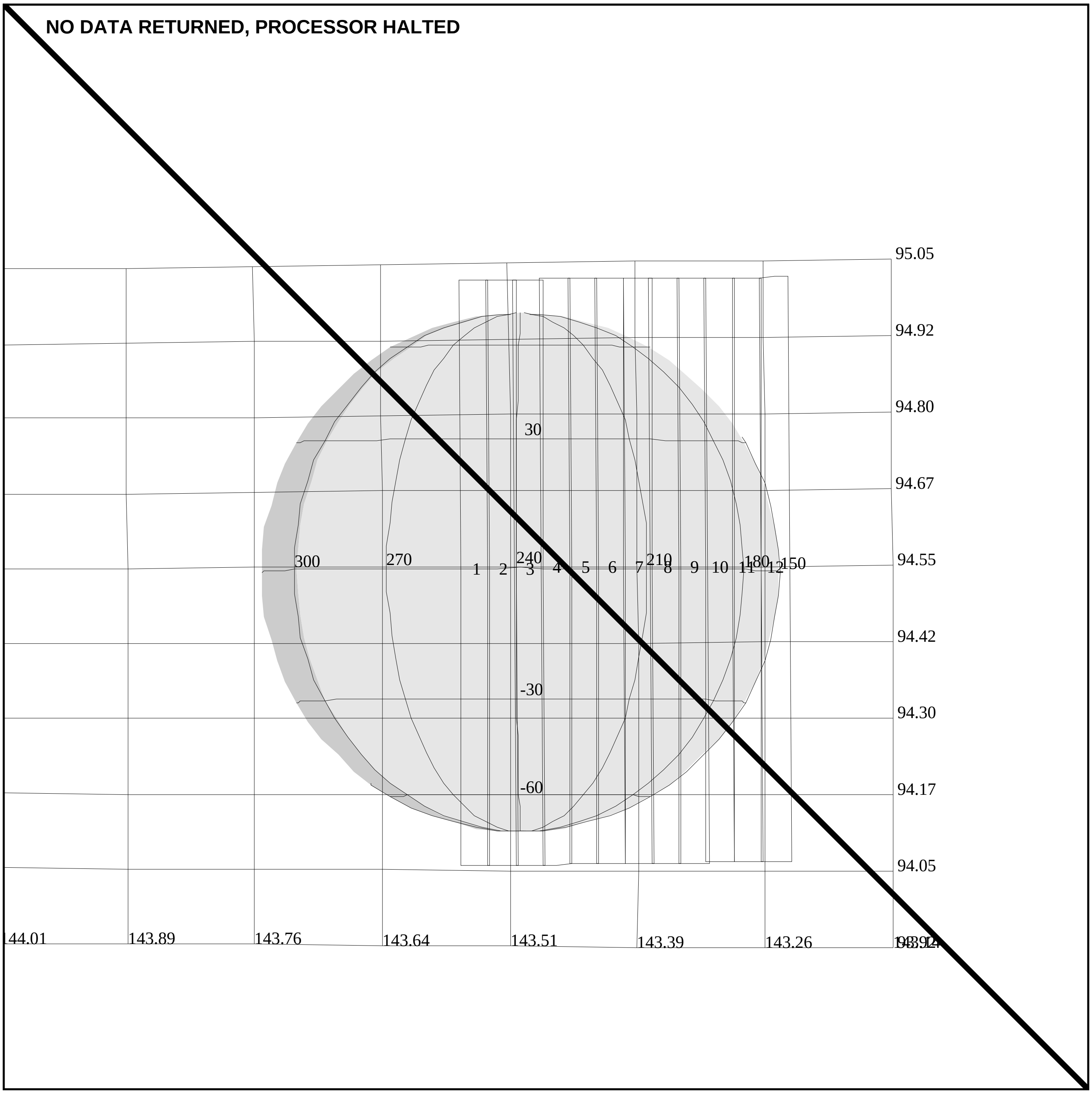

165DY:TT= 0 TMC= 1 C= 0.90 XC= 0.00 BS= 0/6488 TC= 3
A= 182 pD= 0 SR=17.450 RA50=271.44 DEC50=-24.54 cone=143.55 clock= 94.54
117DY:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/6488
1:#s= 1 Cs= -4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 608 rD= 2

E6INCHEMIS03

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:EEE 97-051/17:03:21.333 -CDS 172:00:0

OBSERVATION:E6INCHEMIS03

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:MONITORING OF IO DAYSIDE

Monitoring of IO’s Dayside	ACTIVITY ID: E6INCHEMIS03- START TIME: 97-051/14:07:25.333

Activity ID: Orbit E6 Target I Inst N OAPEL CHEMIS SeqNo 03 -

Title	Monitoring of IO’s Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 02/20/97 Week 8

Start	EEE-CDS	00000174:00:0	97-051/14:07:25.333	EEE-000/02:55:56.000
End	EEE-CDS	00000167:00:0	97-051/14:14:30.000	EEE-000/02:48:51.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6INCHEMIS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitude to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have reservations between 120 and 400 km/nimsel).

Processor Halted, No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6, and E10 where resolution for lit disk is best.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM216

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NIMS E6 Software Reload	ACTIVITY ID: E6NIMSP2LD09- START TIME: 97-051/15:58:38.667

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 09 -

Title	NIMS E6 Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	ETE-CDS	00000067:00:0	97-051/15:58:38.667	ETE-000/01:07:44.666
End	ETE-CDS	00000057:10:0	97-051/16:08:38.667	ETE-000/00:57:44.666
Duration		00000009:81:0	000/00:10:00.000	000/00:10:00.000

Top Label E6NIMSP2LD09-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

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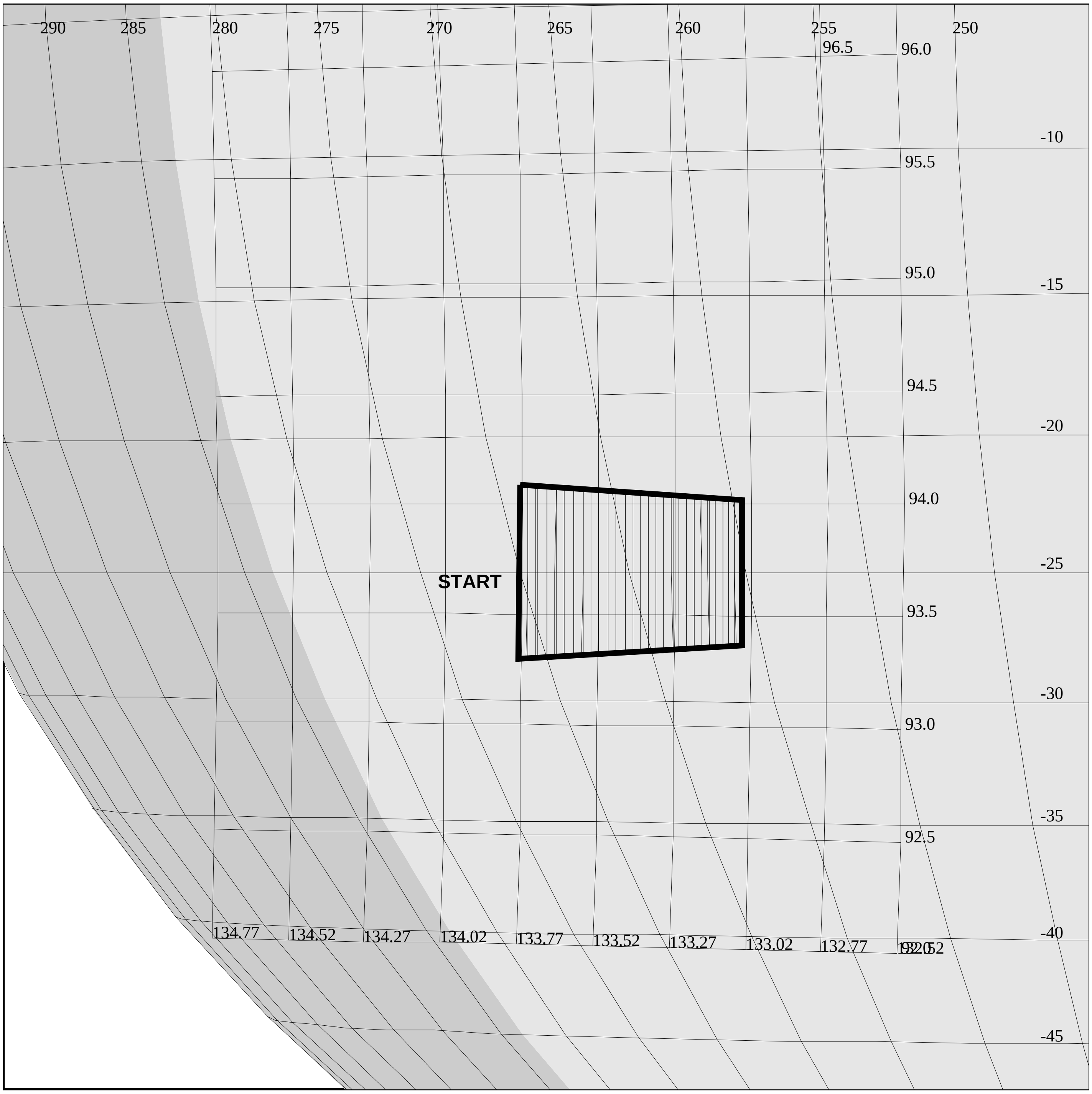

165DZ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8874 TC= 1(-25 270)
A= 728 pD= 1456 SR=17.450 RA50=260.66 DEC50=-24.95 cone=133.77 clock= 93.74
117DZ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8874
1:#s= 1 Cs= -14.50 XCs= 0.00 Cr= 19.50 XCr= -8.00 sD= 1456 rD= 24

E6ENSUCOMP01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENSUCOMP01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:ETE 97-051/17:06:23.333 -CDS 52:00:0

OBSERVATION:E6ENSUCOMP01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1456 S= 3.000

DESCRIP:EUROPA SURFACE COMPOSITION

Europa Surface Composition	ACTIVITY ID: E6ENSUCOMP01- START TIME: 97-051/16:08:45.333

Activity ID: Orbit E6 Target E Inst N OAPEL SUCOMP SeqNo 01 -

Title	Europa Surface Composition			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	ETE-CDS	00000057:00:0	97-051/16:08:45.333	ETE-000/00:57:38.000
End	ETE-CDS	00000043:00:0	97-051/16:22:54.667	ETE-000/00:43:28.666
Duration		00000014:00:0	000/00:14:09.334	000/00:14:09.334

Top Label   E6ENSUCOMP01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Determine surface composition of a regional area of the lineas in high spatial and spectral resolution

Data Returned

Design Detail

regional mosaic containing 2-3 scans over longitude 130 to 150 and latitudes 25 to 40 degrees north. 20 percent overlap between scans.

Instrument in Long Map mode.

Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM192

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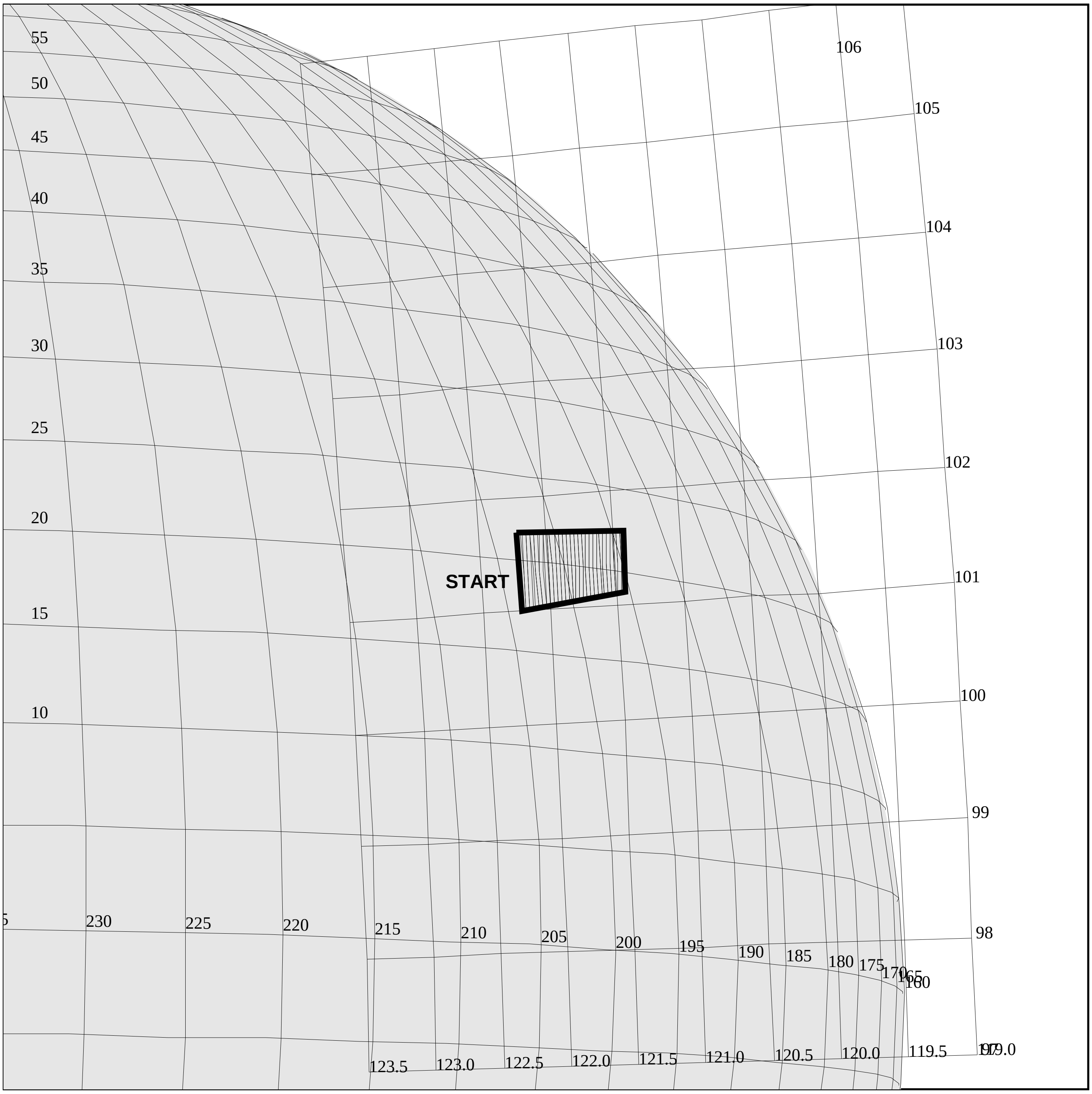

165EA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2150 TC= 1(19.3 203.5)
A= 728 pD= 1456 SR=17.450 RA50=249.19 DEC50=-17.54 cone=122.22 clock=101.35
117EA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2150
1:#s= 1 Cs= -14.50 XCs= 0.00 Cr= 19.50 XCr= -8.00 sD= 1456 rD= 24

E6ENSUCOMP02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENSUCOMP02

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:ETE 97-051/17:06:23.333 -CDS 34:00:0

OBSERVATION:E6ENSUCOMP02

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1456 S= 2.000

DESCRIP:EUROPA SURFACE COMPOSITION

Europa Surface Composition	ACTIVITY ID: E6ENSUCOMP02- START TIME: 97-051/16:26:57.333

Activity ID: Orbit E6 Target E Inst N OAPEL SUCOMP SeqNo 02 -

Title	Europa Surface Composition			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	ETE-CDS	00000039:00:0	97-051/16:26:57.333	ETE-000/00:39:26.000
End	ETE-CDS	00000026:01:0	97-051/16:40:05.333	ETE-000/00:26:18.000
Duration		00000012:90:0	000/00:13:08.000	000/00:13:08.000

Top Label   E6ENSUCOMP02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain surface compositional data over specified regions of Europa’s surface.

Data Returned

Design Detail

Continuous slew mosaic over 200 - 215 degrees longitude
and 20 - 40 degrees south latitude.
20 percent overlap between scans.

Instrument in long map mode.

Same Swath played back with two complementary wavelength edit tables.

```
  A - 192 wavelengths
+ B -  96 wavelengths
-------------------
+ C - 288 wavelengths (merged product)
```

Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM192 (A)
Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM96   (B)
Long Map (LM), Gain 3, Grating Start 0, MPW, ELM442, ELM288 (C)

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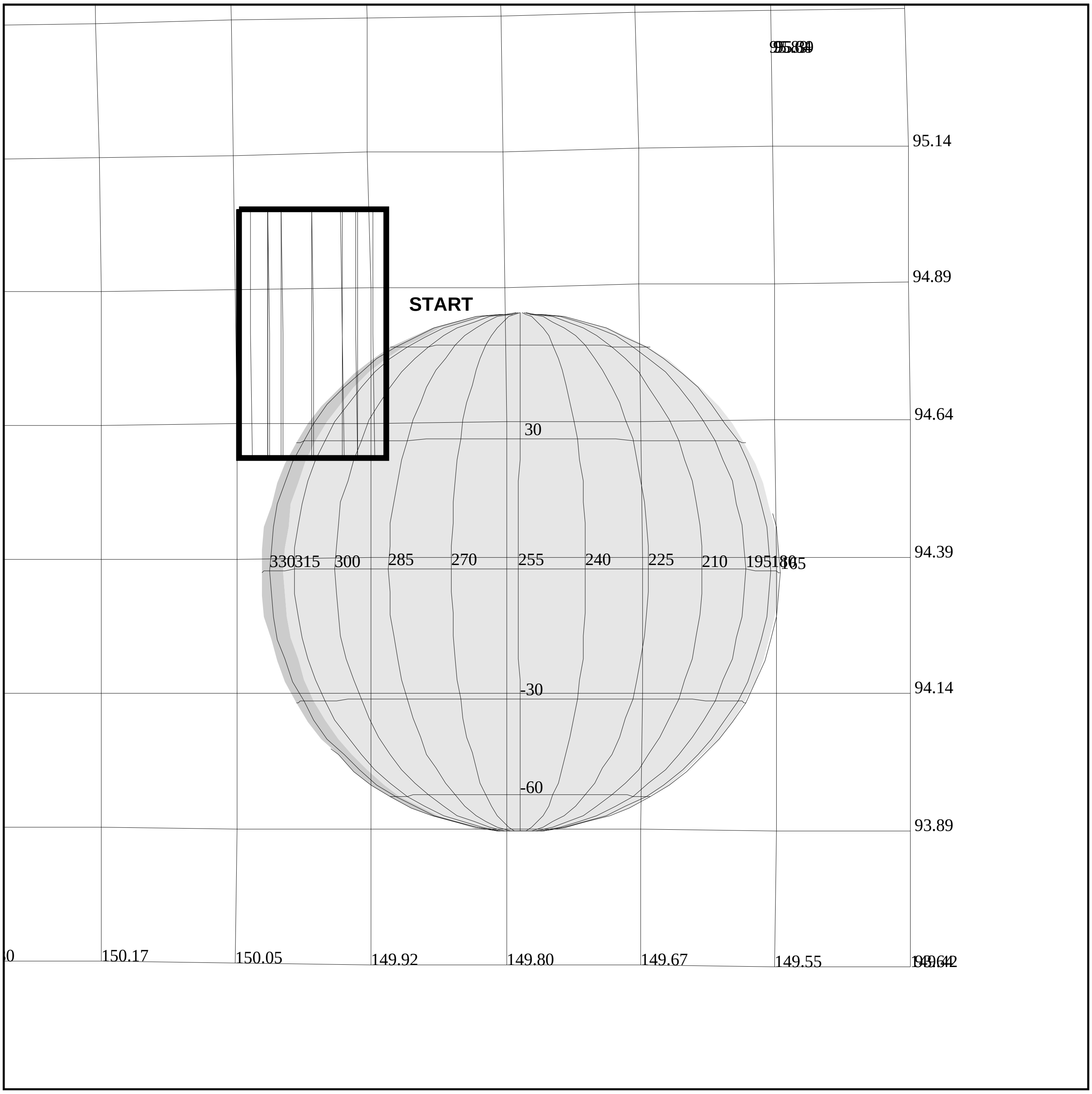

165FO:TT= 0 TMC= 1 C= -1.00 XC= 0.00 BS= 0/4152 TC= 1(10 310)
A= 364 pD= 546 SR=17.450 RA50=278.43 DEC50=-24.28 cone=149.92 clock= 94.45
117FO:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/4152
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 16 rD= 2

E6INRTIMON01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INRTIMON01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:ETE 97-051/17:06:23.333 -CDS 23:00:0

BODY PLOT TIME:TARGET-TIME D= 546 S= 0.500

OBSERVATION:E6INRTIMON01

DESCRIP:NIMS_IO_REAL_TIME_OBS

NIMS Io Real-Time Observation ACTIVITY ID: E6INRTIMON01-
START TIME: 97-051/16:40:06.000

Activity ID: Orbit E6 Target I Inst N OAPEL RTIMON SeqNo 01 -

Title	NIMS Io Real-Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	ETE-CDS	00000026:00:0	97-051/16:40:06.000	ETE-000/00:26:17.333
End	ETE-CDS	00000021:07:0	97-051/16:45:04.667	ETE-000/00:21:18.666
Duration		00000004:84:0	000/00:04:58.667	000/00:04:58.667

Top Label E6INRTIMON01
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

10 wavelength map (Fixed Map) over part of Io.

Data Returned

Design Detail

8 wavelength map over a portion of Io.

Mirror Blocked (1C,07) (11100,00111)

Pointer design missed center of Io.

Fixed Map (XM), Gain 2, Grating Start 21, R/T, IXM008

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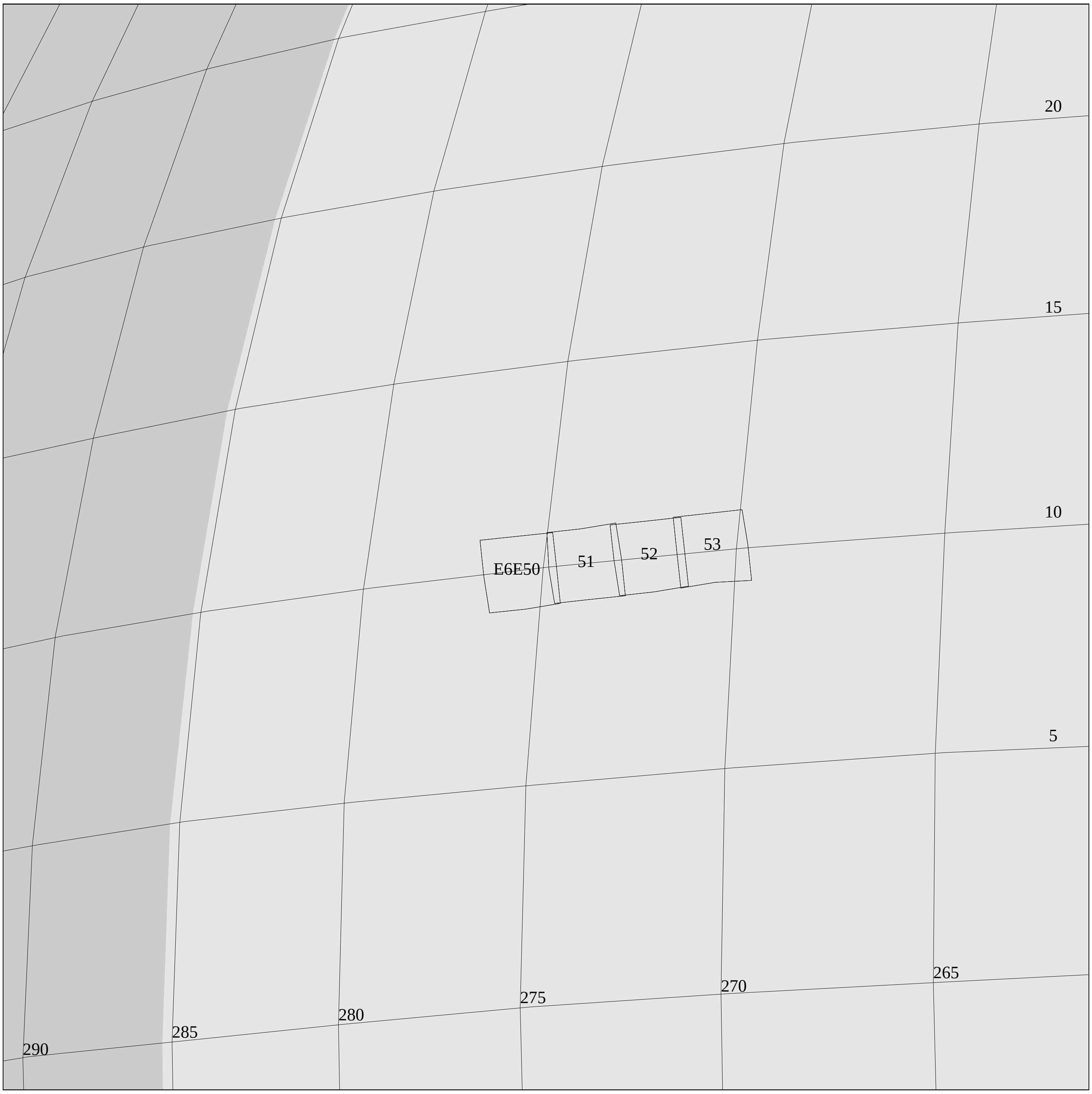


165IR:TT= 0 TMC= 1 C= 10.97 XC= 0.00 BS= 0/4880 TC= 1(10 273.0)
A= 364 pD= 104 SR=17.450 RA50=253.82 DEC50=-14.70 cone=125.97 clock=105.83
118IR:#SB= 1 Cs= -7.30 XCs= 0.00 TPP= 26 SR= 3.000 RR= 6.000 BM=F RC= 1 BS= 3/4880
1:#s= 4 #p= 1 Cr= 0.00 XCr= 0.00

E6ENBRTPLN01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ESBRTPLN01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:ETE 97-051/17:06:23.333 -CDS 19:00:0

OBSERVATION:E6ESBRTPLN01

THINNING:

BODY PLOT TIME:TARGET-TIME D= 104 S= 4.000

DESCRIP:High-res_context_for_brt_plain

NIMS Ride-Along Observation with SSI ACTIVITY ID: E6ENBRTPLN01+
START TIME: 97-051/16:45:09.333

Activity ID: Orbit E6 Target E Inst N OAPEL BRTPLN SeqNo 01 +

Title	NIMS Ride-Along Observation with SSI			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97 Week 8

Start	ETE-CDS	00000021:00:0	97-051/16:45:09.333	ETE-000/00:21:14.000
End	ETE-CDS	00000018:00:0	97-051/16:48:11.333	ETE-000/00:18:12.000
Duration		00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label E6ENBRTPLN01+
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

This is a coordinated high resolution ride-along observation of the Bright Plains with SSI.

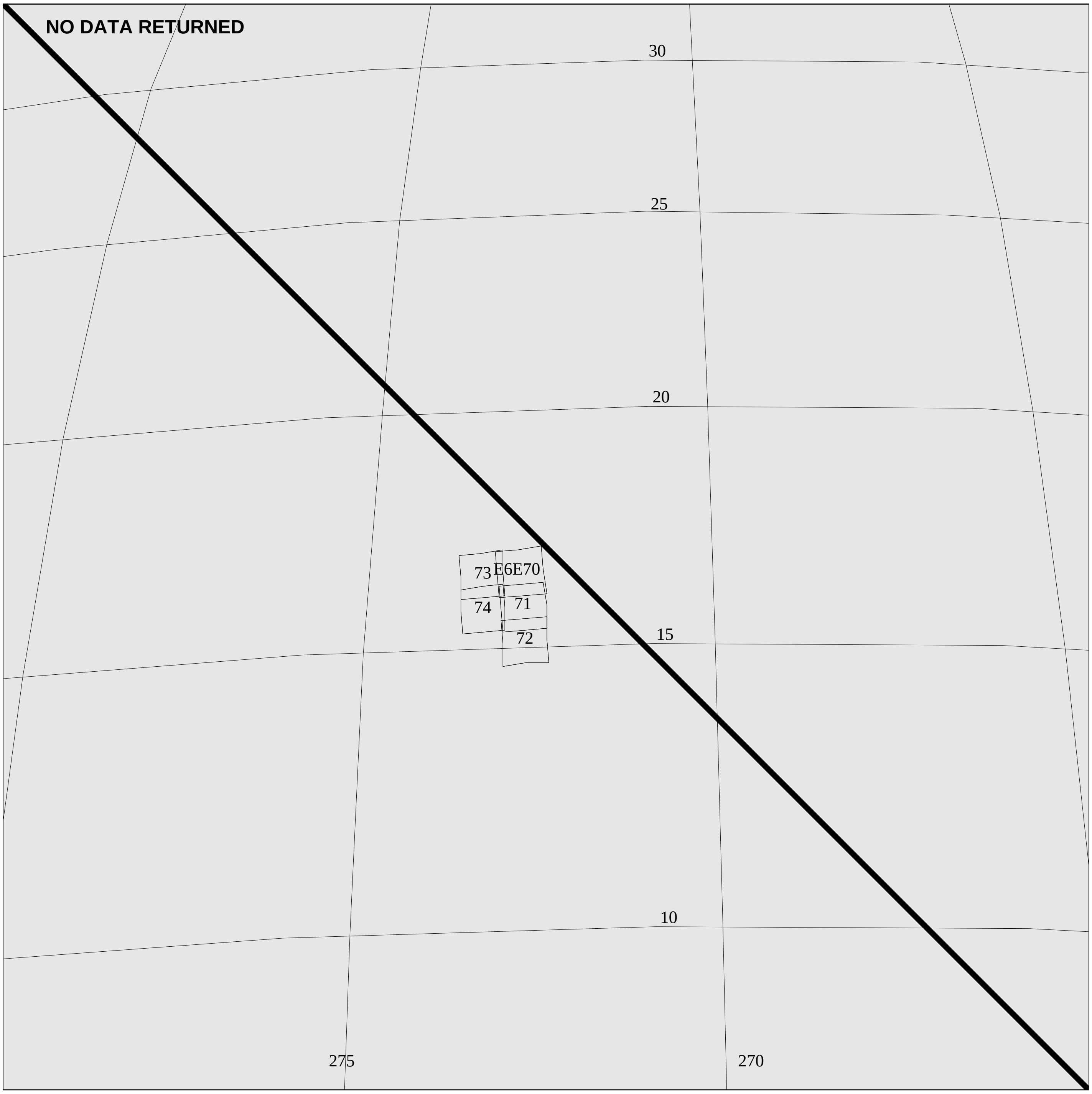
Data Returned

Design Detail

Ride-along behind a SSI 4x1 IM8 mosaic.

Long Map (LM), Gain 2, Grating Start 0, IM8, ELM442, ELM384

Galileo Activity Plan Form 01/21/97 14:44:49 rev 6/95



165IT:TT= 0 TMC= 1 C= -3.00 XC= 3.80 BS= 0/6882 TC= 1(16.0 273.0)
A= 182 pD= 130 SR=17.450 RA50=233.58 DEC50= 9.71 cone= 99.21 clock=124.28
118IT:#SB= 1 Cs= 0.00 XCs= -6.10 TPP= 26 SR= 3.000 RR= 6.000 BM=F RC= 1 BS= 3/6882
1:#s= 3 #p= 2 Cr= 7.30 XCr= 12.40

E6ENBRTPLN02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ESBRTPLN02

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:ETE 97-051/17:06:23.333 -CDS 8:00:0

OBSERVATION:E6ESBRTPLN02

THINNING:

BODY PLOT TIME:TARGET-TIME D= 130 S= 5.000

DESCRIP:Highest_resolution_bright_plains

NIMS Ride-Along Observation with SSI	ACTIVITY ID: E6ENBRTPLN02+ START TIME: 97-051/16:57:17.333

Activity ID: Orbit E6 Target E Inst N OAPEL BRTPLN SeqNo 02 +

Title	NIMS Ride-Along Observation with SSI			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	ETE-CDS	00000009:00:0	97-051/16:57:17.333	ETE-000/00:09:06.000
End	ETE-CDS	00000006:00:0	97-051/17:00:19.333	ETE-000/00:06:04.000
Duration		00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label   E6ENBRTPLN02+
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

This is the second coordinated high resolution ride-along observation of the Bright Plains with SSI.

No Data Returned

Design Detail

Ride-along behind a SSI 2x2 IM8 mosaic.

Long Map (LM), Gain 2, Grating Start 0, IM8, ELM442, ELM384

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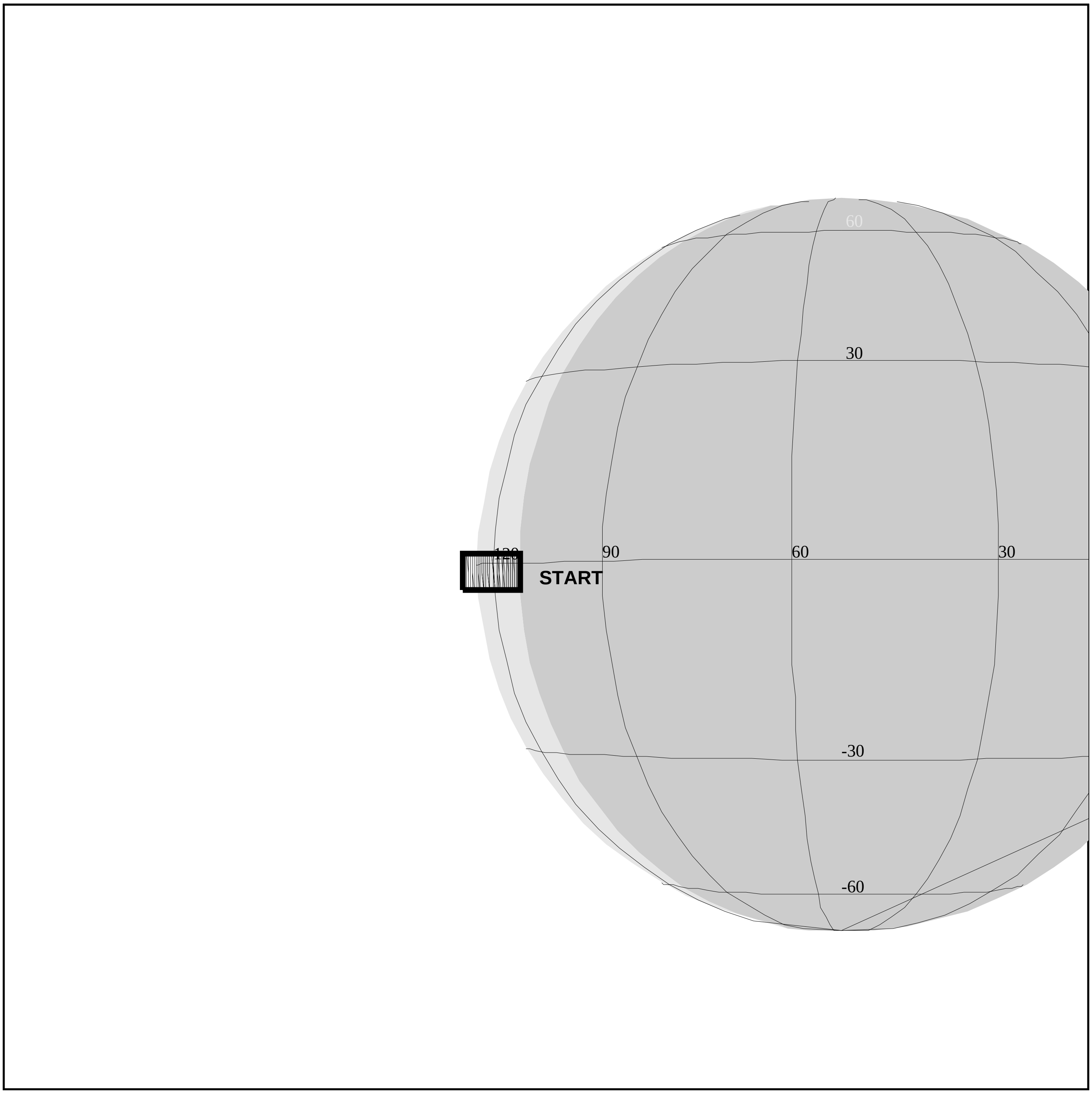

165FM:TT= 0 TMC= 1 C= -90.00 XC= 0.00 BS= 0/6528 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 94.24 DEC50= 25.64 cone= 33.97 clock=272.42
117FM:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 17 BS= 0/6528
1:#s= 1 Cs= -14.50 XCs= 0.00 Cr= 16.60 XCr= 0.00 sD= 66 rD= 16

E6ENSEAICE01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6ENSEAICE01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:ETE 97-051/17:06:23.333 +CDS 45:00:0

OBSERVATION:E6ENSEAICE01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700

DESCRIP:NIMS_EUROPA_SEA_ICE

Europa Hexangonal Ice	ACTIVITY ID: E6ENSEAICE01- START TIME: 97-051/17:45:49.333

Activity ID: Orbit E6 Target E Inst N OAPEL SEAICE SeqNo 01 -

Title	Europa Hexangonal Ice			Instrument	NIMS
Requestor	NIMS-SWG/A. Ocampo	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	ETE+CDS	00000039:00:0	97-051/17:45:49.333	ETE+000/00:39:26.000
End	ETE+CDS	00000064:00:0	97-051/18:11:05.999	ETE+000/01:04:42.666
Duration		00000025:00:0	000/00:25:16.666	000/00:25:16.666

Top Label	E6ENSEAICE01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is aimed to distinguish hexagonal ice or younger ice ice or older ice. The observation will focus on the crescent limb of Europa at phase angles from 150 degrees to 160 degrees, which will give scattering angles of 22 degrees (older ice) and 46 degrees (younger ice) respectively. This observation is geometry critical.

Data Returned

Design Detail

Phase Angle = 154 degrees	Mode = XM
CN = 31 degrees	Gain State = 3
CK = 272 degrees	Resolution = 6.5 Km
Lat = -2 degrees	
W. Longitude = 120 degrees	
Record Mode = LPU	

Scan back-and-forth across Europa’s thin crescent.

Return first 3 of 17 identical swaths.

Fixed Map (XM), Gain 3, Grating Start 0, LPU, EXM10B, EXM10B

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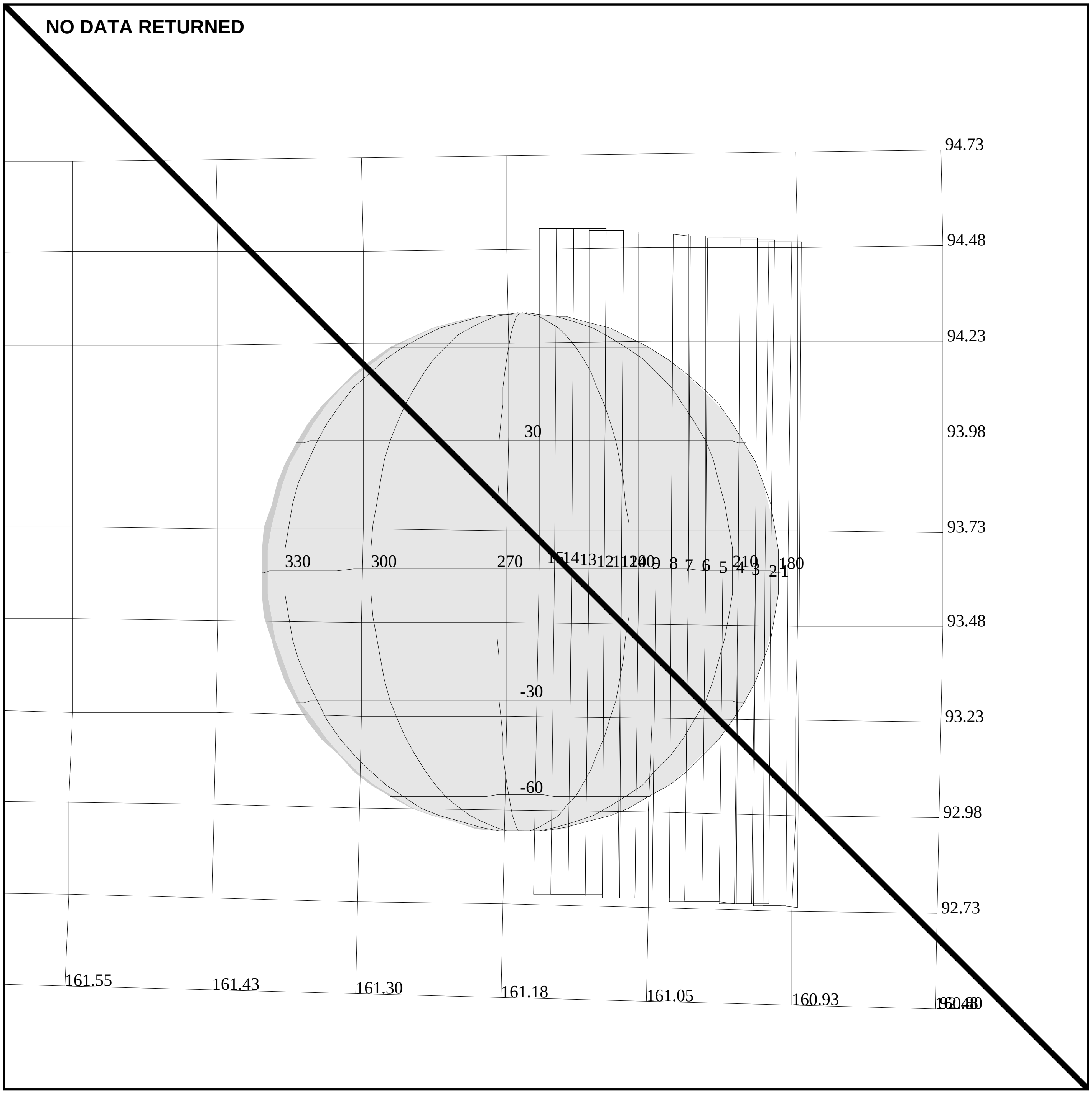

165EC:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS=10/1634 TC= 3
A= 728 pD= 0 SR=17.450 RA50=290.43 DEC50=-23.28 cone=160.94 clock= 93.62
117EC:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS=10/1634
1:#s= 1 Cs= 10.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 772 rD= 2

E6INCHEMIS05

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INCHEMIS05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 +CDS 428:00:0

OBSERVATION:E6INCHEMIS05

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:MONITORING OF IO DAYSIDE

Monitoring of IO’s Dayside		ACTIVITY ID:	E6INCHEMIS05-
		START TIME:	97-051/19:11:45.999

Activity ID: Orbit E6 Target I Inst N OAPEL CHEMIS SeqNo 05 -

Title	Monitoring of IO’s Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	IEE+CDS	00000424:00:0	97-051/19:11:45.999	IEE+000/07:08:42.666
End	IEE+CDS	00000433:00:0	97-051/19:20:51.999	IEE+000/07:17:48.666
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	E6INCHEMIS05-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM96

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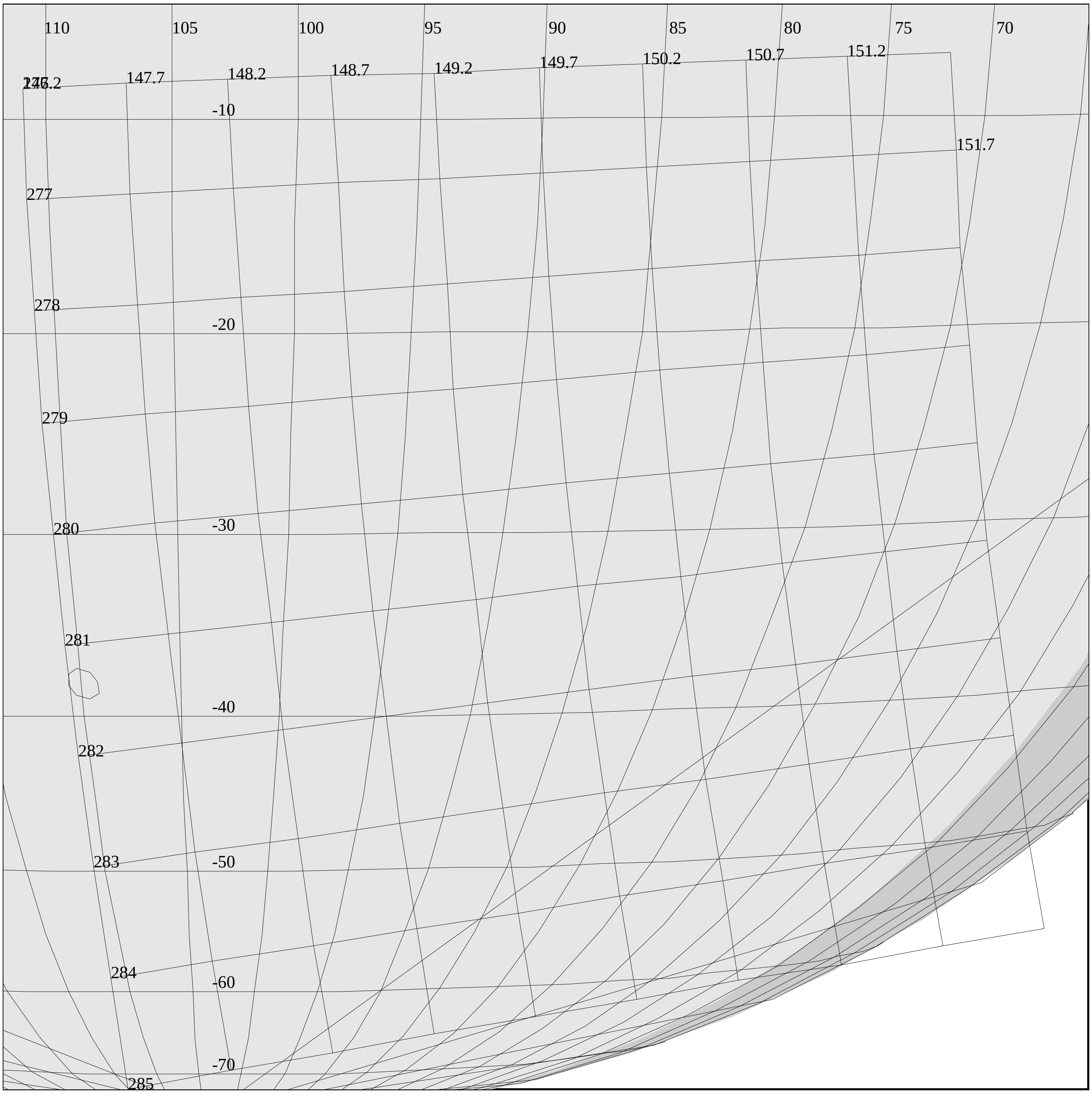

165GC:TT= 0 TMC= 1 C= 17.00 XC= -2.90 BS= 0/1472 TC= 1(-35 98)
A= 728 pD= 0 SR=17.450 RA50=341.01 DEC50=-11.26 cone=149.45 clock=280.80
117GC:#SB= 1 OR= 0.170 RR=12.000 BM=F RC= 1 BS= 0/1472
1:#s= 10 Cs= -39.70 XCs= -3.70 Cr= 36.00 XCr= 4.35 sD= 708 rD= 22

E6NNHEALTH03

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JPFT1EM101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 +CDS 13:00:0

OBSERVATION:E6JPFT1EM101

THINNING: :PPR 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.500

DESCRIP:E6_LOW_VIEW_WHITE_OVAL

E6 Health 3	ACTIVITY ID: E6NNHEALTH03- START TIME: 97-051/21:39:23.266

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 03 -

Title	E6 Health 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE+CDS	00000046:00:0	97-051/21:39:23.266	JEE+000/00:46:30.666
End	JEE+CDS	00000050:00:0	97-051/21:43:25.933	JEE+000/00:50:33.333
Duration		00000004:00:0	000/00:04:02.667	000/00:04:02.667

Top Label E6NNHEALTH03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Required to verify insturment operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6JPFT1EM101

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load	ACTIVITY ID: E6NIMSP2LD03- START TIME: 97-051/21:48:29.266

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 03 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	JEE+CDS	00000055:00:0	97-051/21:48:29.266	JEE+000/00:55:36.666
End	JEE+CDS	00000065:00:0	97-051/21:58:35.933	JEE+000/01:05:43.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   E6NIMSP2LD03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN   - Memory Normal
37IST - Chopper Reference

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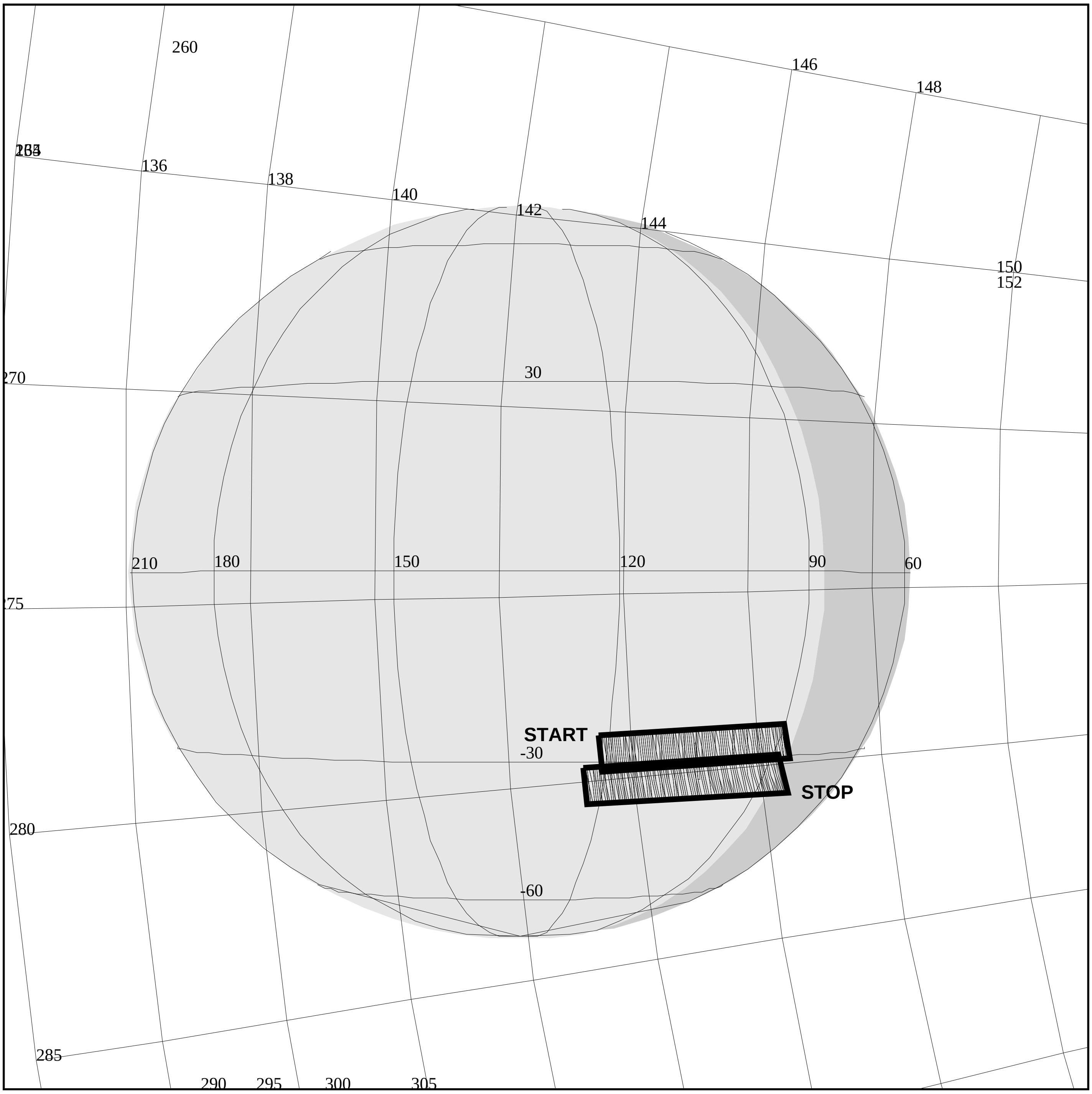

165ED:TT= 0 TMC= 1 C= -43.00 XC= -9.30 BS= 0/2028 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50=346.42 DEC50= -8.54 cone=143.52 clock=279.31
117ED:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2028
1:#s= 2 Cs= 44.00 XCs= 0.00 Cr= -55.00 XCr= 8.00 sD= 1212 rD= 60

E6JNFEA03801

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA03801

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-051/17:03:21.333 +CDS 298:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:E6JNFEA03801 **DESCRIP:JUP_FEAT_TRK_38_DEG_PHS_01**

Jupiter Feature Track 38 deg phase pt 1	ACTIVITY ID: E6JNFEA03801- START TIME: 97-051/21:59:36.666

Activity ID: Orbit E6 Target J Inst N OAPEL FEA038 SeqNo 01 -

Title	Jupiter Feature Track 38 deg phase pt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/20/97	Week	8

Start	EEE+CDS	00000293:00:0	97-051/21:59:36.666	EEE+000/04:56:15.333
End	EEE+CDS	00000312:30:0	97-051/22:19:09.333	EEE+000/05:15:48.000
Duration		00000019:30:0	000/00:19:32.667	000/00:19:32.667

Top Label	E6JNFEA03801-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first and only observation obtained on a rotation with phase angle approximately 38 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the evening terminator assuming campaign feature coordinates 33 degrees south latitude and 91.5 degrees west longitude.
White Oval BC will also be observed.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2*4 (20*34 mrad) contiguous area. The White Oval DE feature is located in the middle of the second tier.
S/C distance about 0.60 million KM, NIMS IFOV (NIMSEL) = 300 KM;
2*4 mosaic covers 12000*20400 KM with a 20% overlap between tiers.
About 860 seconds of scanning, including 60 secs total for 3 reposition slews. Data accumulated .15 mbtg in 4 colors, and using 0.02889 tracks.
4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

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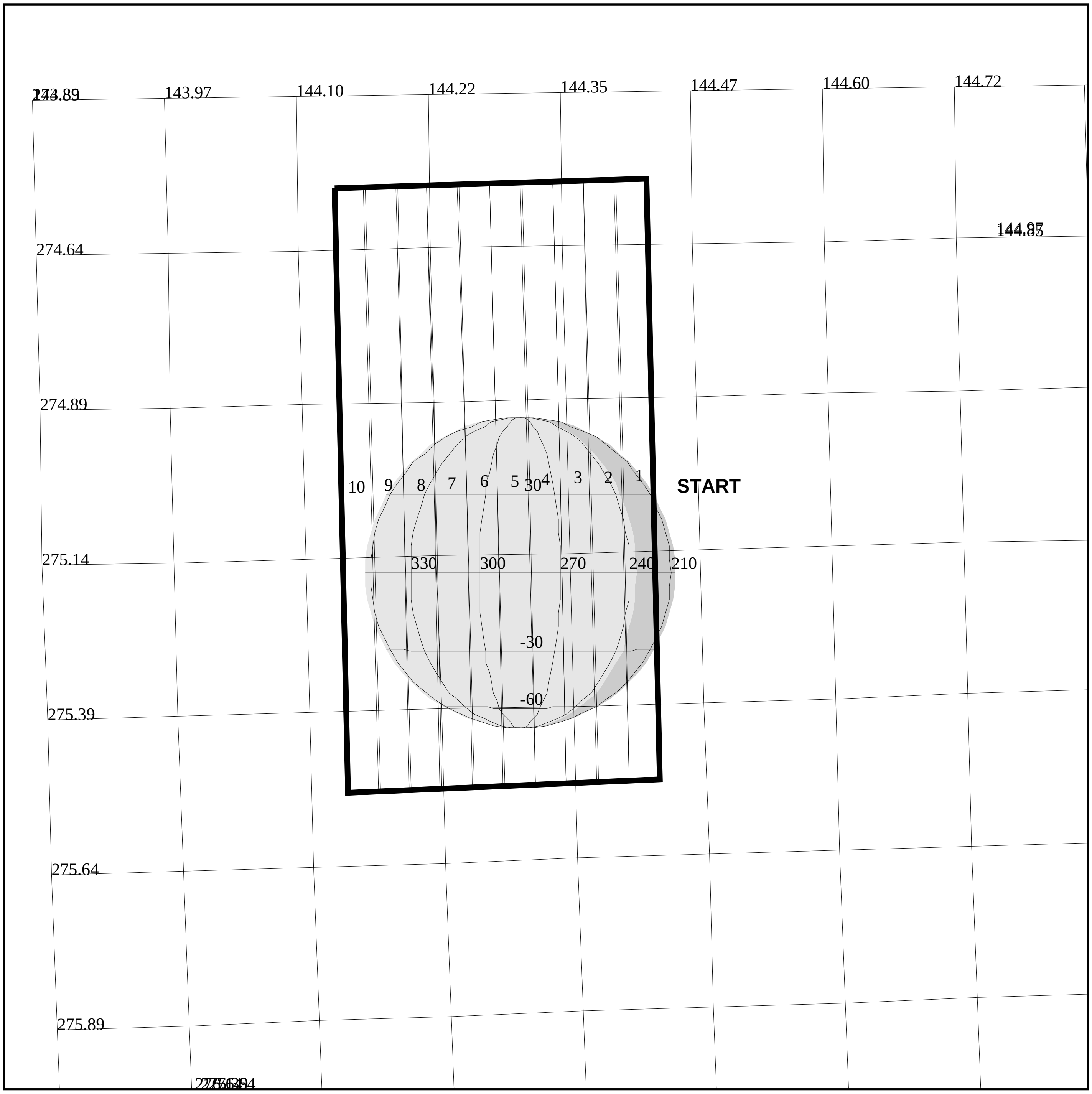

165EE:TT= 0 TMC= 1 C= 2.10 XC= -1.50 BS= 0/6456 TC= 3
A= 728 pD= 0 SR=17.450 RA50=344.63 DEC50= -6.53 cone=144.42 clock=275.02
117EE:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS= 0/6456
1:#s= 1 Cs= -9.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 492 rD= 2

E6INCHEMIS06

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INCHEMIS06

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-051/12:03:03.333 +CDS 949:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

OBSERVATION:E6INCHEMIS06

DESCRIP:MONITORING OF IO DAYSIDE

Monitoring of IO’s Dayside ACTIVITY ID: E6INCHEMIS06-
START TIME: 97-052/03:57:32.666

Activity ID: Orbit E6 Target I Inst N OAPEL CHEMIS SeqNo 06 -

Title	Monitoring of IO’s Dayside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 02/21/97 Week 8

Start	IEE+CDS	00000944:00:0	97-052/03:57:32.666	IEE+000/15:54:29.333
End	IEE+CDS	00000951:78:0	97-052/04:05:29.333	IEE+000/16:02:26.000
Duration		00000007:78:0	000/00:07:56.667	000/00:07:56.667

Top Label E6INCHEMIS06-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.

Long map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM245, ILM216

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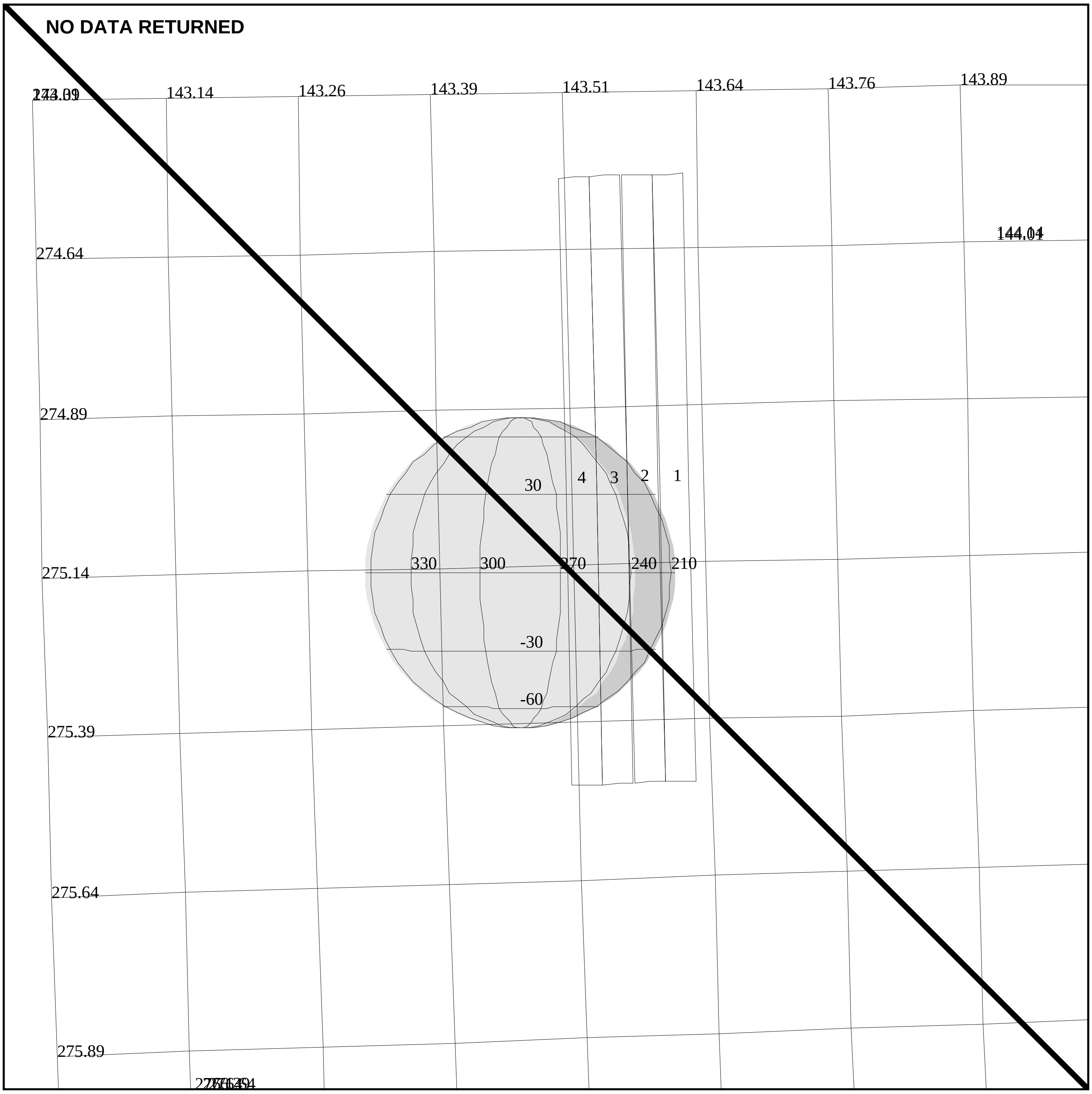

165EF:TT= 0 TMC= 1 C= 2.70 XC= -1.50 BS= 0/7912 TC= 3
A= 728 pD= 0 SR=17.450 RA50=345.37 DEC50= -6.20 cone=143.62 clock=275.00
117EF:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS= 0/7912
1:#s= 1 Cs= -4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 208 rD= 2

E6INTHRMAL01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INTHRMAL01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-051/12:03:03.333 +CDS 957:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

OBSERVATION:E6INTHRMAL01

DESCRIP:MONITORING OF IO NIGHTSIDE

Monitoring of IO's Nightside		ACTIVITY ID:	E6INTHRMAL01-
		START TIME:	97-052/04:05:30.666

Activity ID: Orbit E6 Target I Inst N OAPEL THRMAL SeqNo 01 -

Title	Monitoring of IO's Nightside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	IEE+CDS	00000951:80:0	97-052/04:05:30.666	IEE+000/16:02:27.333
End	IEE+CDS	00000958:40:0	97-052/04:12:08.666	IEE+000/16:09:05.333
Duration		00000006:51:0	000/00:06:38.000	000/00:06:38.000

Top Label E6INTHRMAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 51,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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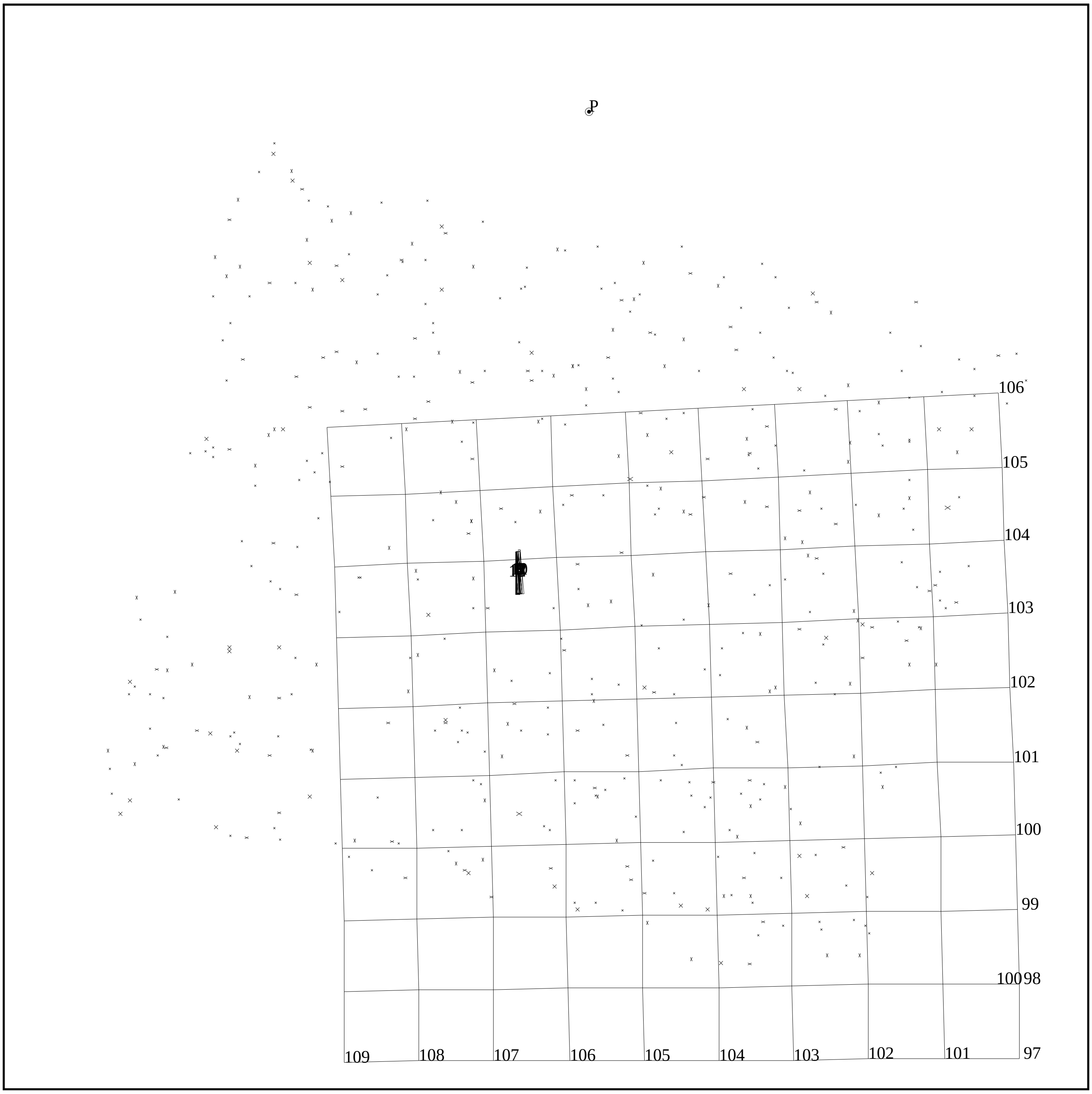

165EG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1006 TC=15(-11.5 234.0)
A= 728 pD= 0 SR=17.450 RA50=234.00 DEC50=-11.50 cone=106.50 clock=103.82

E6HNDARK__03

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6HNDARK__03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-051/12:03:03.333 +CDS 974:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

OBSERVATION:E6HNDARK__03

DESCRIP:DARK OBSERVATION

Dark Observation	ACTIVITY ID: E6HNDARK__03- START TIME: 97-052/04:22:49.333

Activity ID: Orbit E6 Target H Inst N OAPEL DARK SeqNo 03 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date 02/21/97	Week 8

Start	IEE+CDS	00000969:00:0	97-052/04:22:49.333	IEE+000/16:19:46.000
End	IEE+CDS	00000976:00:0	97-052/04:29:53.999	IEE+000/16:26:50.666
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label E6HNDARK__03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the E6 orbit for purposes of calibration.

Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in short-map mode.

Long Map (LM), Gain 4, Grating Start 0, LPU, DRK34, DRK32

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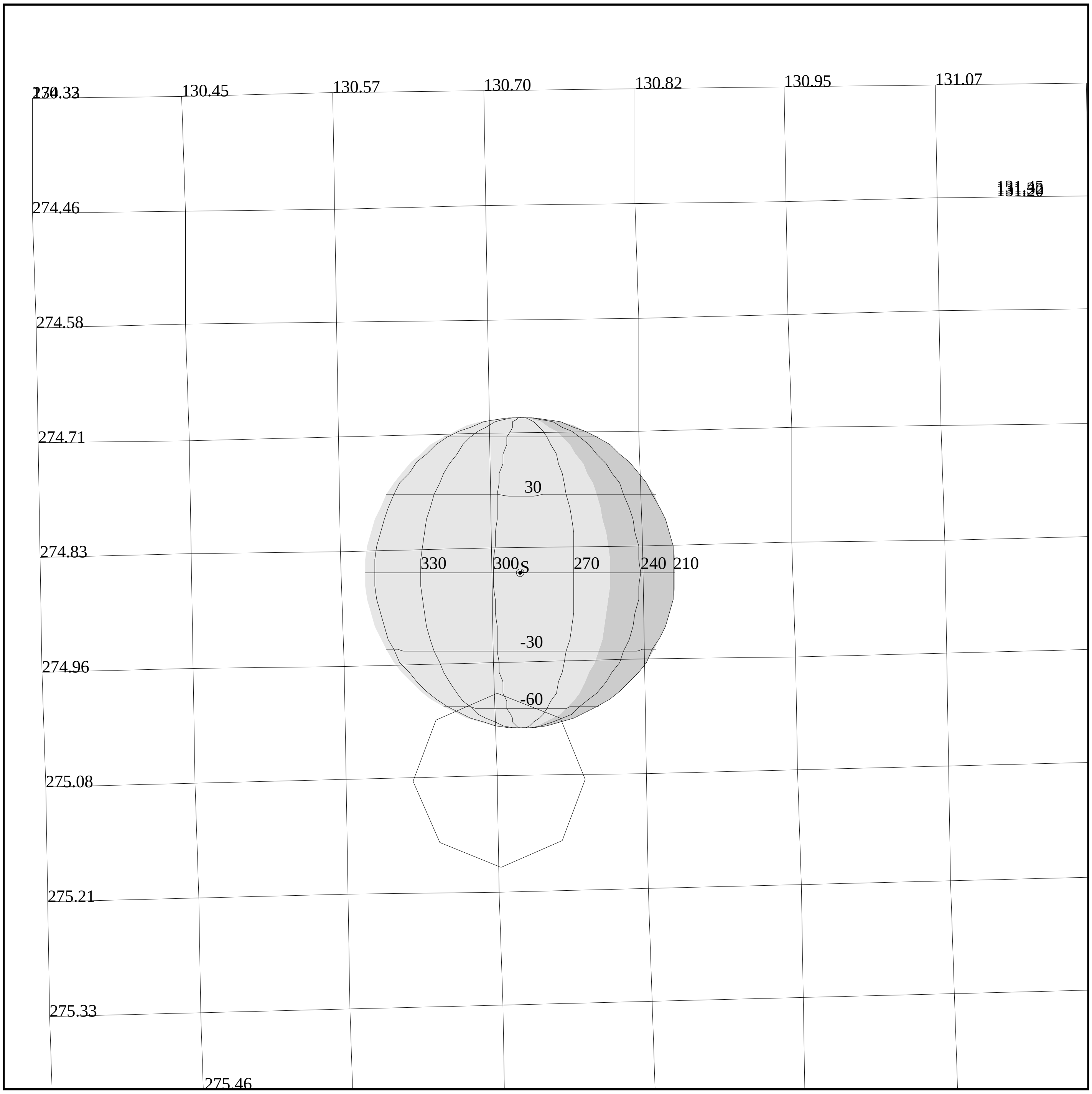

165GR:TT= 0 TMC= 1 C= -0.80 XC= -3.00 BS= 0/0844 TC= 3
A= 728 pD= 0 SR=17.450 RA50=357.10 DEC50= -0.68 cone=130.68 clock=274.63
117GR:#SB= 1 OR= 0.600 RR=12.000 BM=F RC= 1 BS= 0/0844
1:#s= 1 Cs= 0.00 XCs= 6.00 Cr= 0.00 XCr= 0.00 sD= 66 rD= 2

E6NNHEALTH04

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6IPSTP05503

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING: :PPR 1

START:IEE 97-051/12:03:03.333 +CDS 1083:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

OBSERVATION:E6IPSTP05503

DESCRIP:IO POLARIMETRY-45DEG PHASE

E6 Health 4	ACTIVITY ID: E6NNHEALTH04- START TIME: 97-052/06:44:22.600

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 04 -

Title	E6 Health 4			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	JEE+CDS	00000585:00:0	97-052/06:44:22.600	JEE+000/09:51:30.000
End	JEE+CDS	00000591:00:0	97-052/06:50:26.600	JEE+000/09:57:34.000
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label   E6NNHEALTH04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Required to verify insturment operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6IPSTP05503

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load		ACTIVITY ID:	E6NIMSP2LD04-
		START TIME:	97-052/06:50:26.600

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 04 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	JEE+CDS	00000591:00:0	97-052/06:50:26.600	JEE+000/09:57:34.000
End	JEE+CDS	00000601:00:0	97-052/07:00:33.266	JEE+000/10:07:40.666
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label	E6NIMSP2LD04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

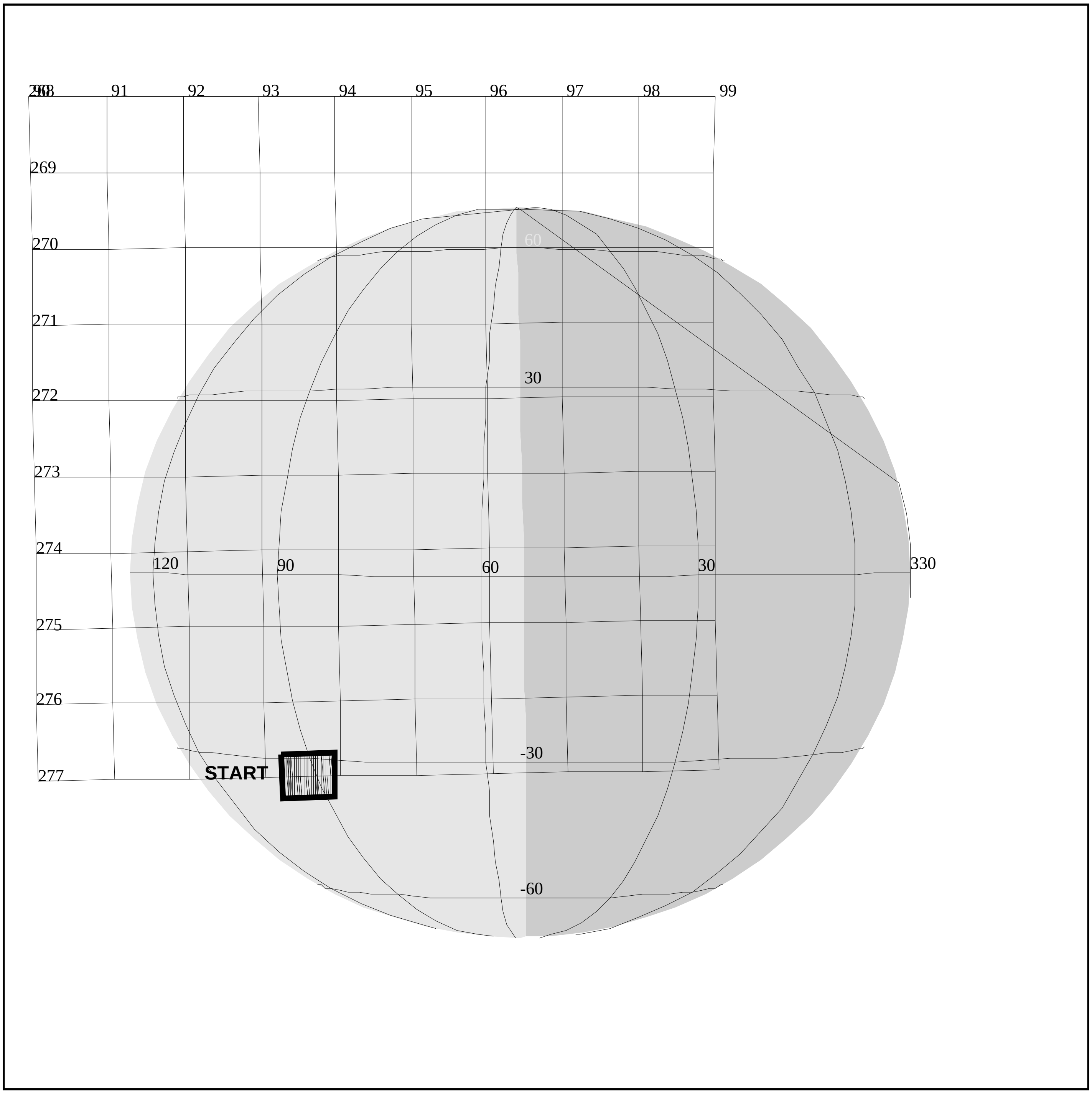
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

```
6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor (37PL)
37MRL  - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT  - Instrument Reset
37MN   - Memory Normal
37IST  - Chopper Reference
```

Galileo Activity Plan Form   01/21/97 14:44:51   rev 6/95



165EH:TT=   0 TMC= 1 C=   -6.00 XC=   0.00 BS= 0/9580 TC= 1(-33   91.5   )
A= 728 pD=   0 SR=17.450 RA50= 32.71 DEC50= 11.83 cone= 93.23 clock=276.99
117EH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9580
1:#s= 1 Cs=   10.90 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   300 rD=   2

E6JNFEA09501

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA09501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM   2

START:JEE 97-051/20:52:52.600   +CDS 607:00:0

BODY PLOT TIME:TARGET-TIME D=   0 S= 0.750

OBSERVATION:E6JNFEA09501

DESCRIP:JUP_FEAT_TRK_95_DEG_PHASE_01

Jupiter Feature Track 95 deg phase pt 1 ACTIVITY ID: E6JNFEA09501-
START TIME: 97-052/07:01:33.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA095 SeqNo 01 -

Title	Jupiter Feature Track 95 deg phase pt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	JEE+CDS	00000602:00:0	97-052/07:01:33.933	JEE+000/10:08:41.333
End	JEE+CDS	00000609:00:0	97-052/07:08:38.600	JEE+000/10:15:46.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label   E6JNFEA09501-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observations obtained on a rotation with phase angle approximately 95 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near minimum airmass, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 0.74 million KM, NIMS IFOV (NIMSEL) = 370 KM; 1*1 mosaic covers 7400*7400 KM.
About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

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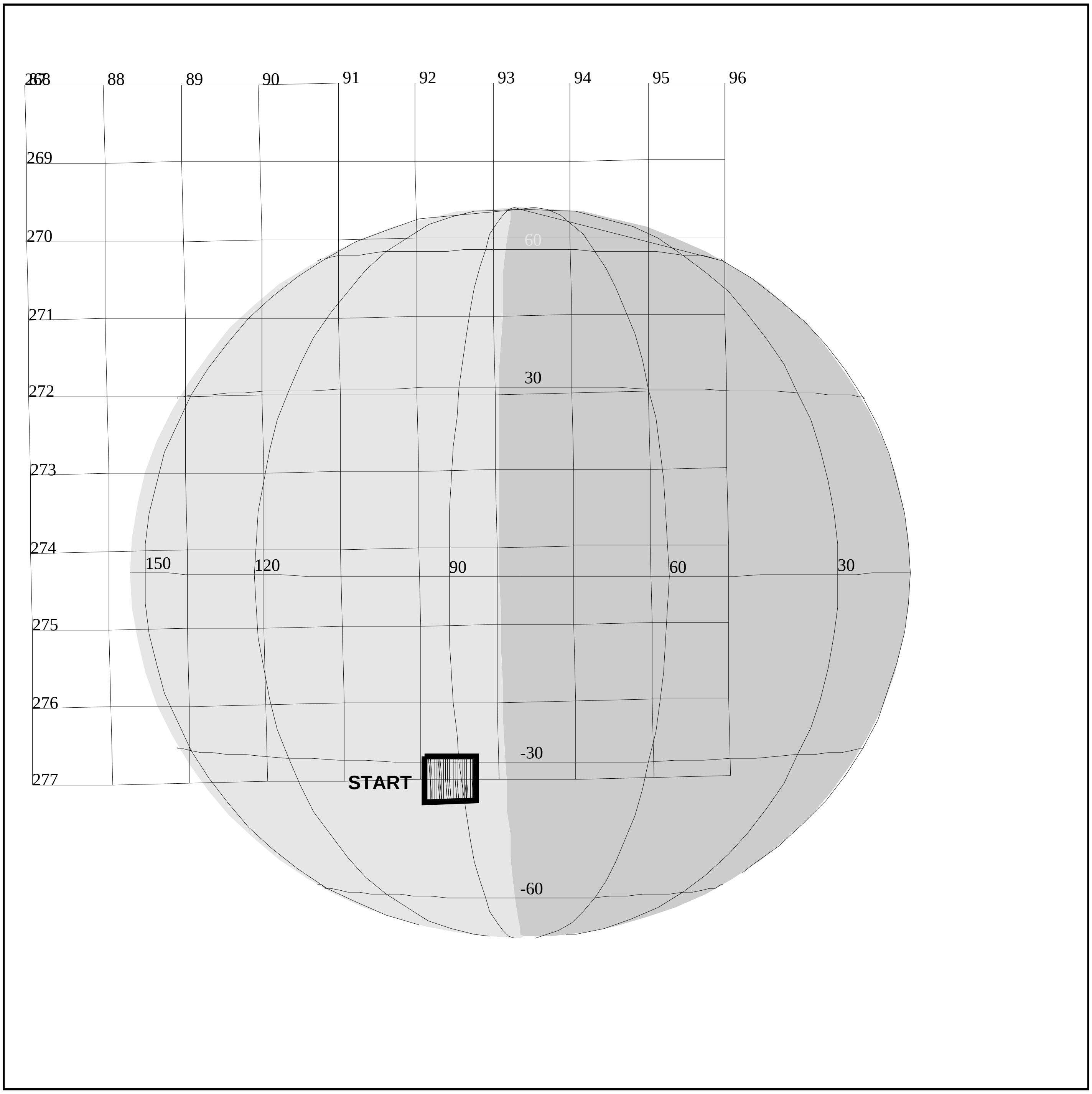

165EI:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/8134 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 33.85 DEC50= 12.23 cone= 92.04 clock=276.99
117EI:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8134
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA09502

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA09502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 +CDS 654:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEA09502

DESCRIP:JUP_FEAT_TRK_95_DEG_PHASE_02

Jupiter Feature Track 95 deg phase pt 2	ACTIVITY ID: E6JNFEA09502- START TIME: 97-052/07:49:05.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA095 SeqNo 02 -

Title	Jupiter Feature Track 95 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 02/21/97 Week 8

Start	JEE+CDS	00000649:00:0	97-052/07:49:05.266	JEE+000/10:56:12.666
End	JEE+CDS	00000656:00:0	97-052/07:56:09.933	JEE+000/11:03:17.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6JNFEA09502-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 95 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature 20 degrees from the evening terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 0.75 million KM, NIMS IFOV (NIMSEL) = 375 KM; 1*1 mosaic covers 7500*7500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT20A

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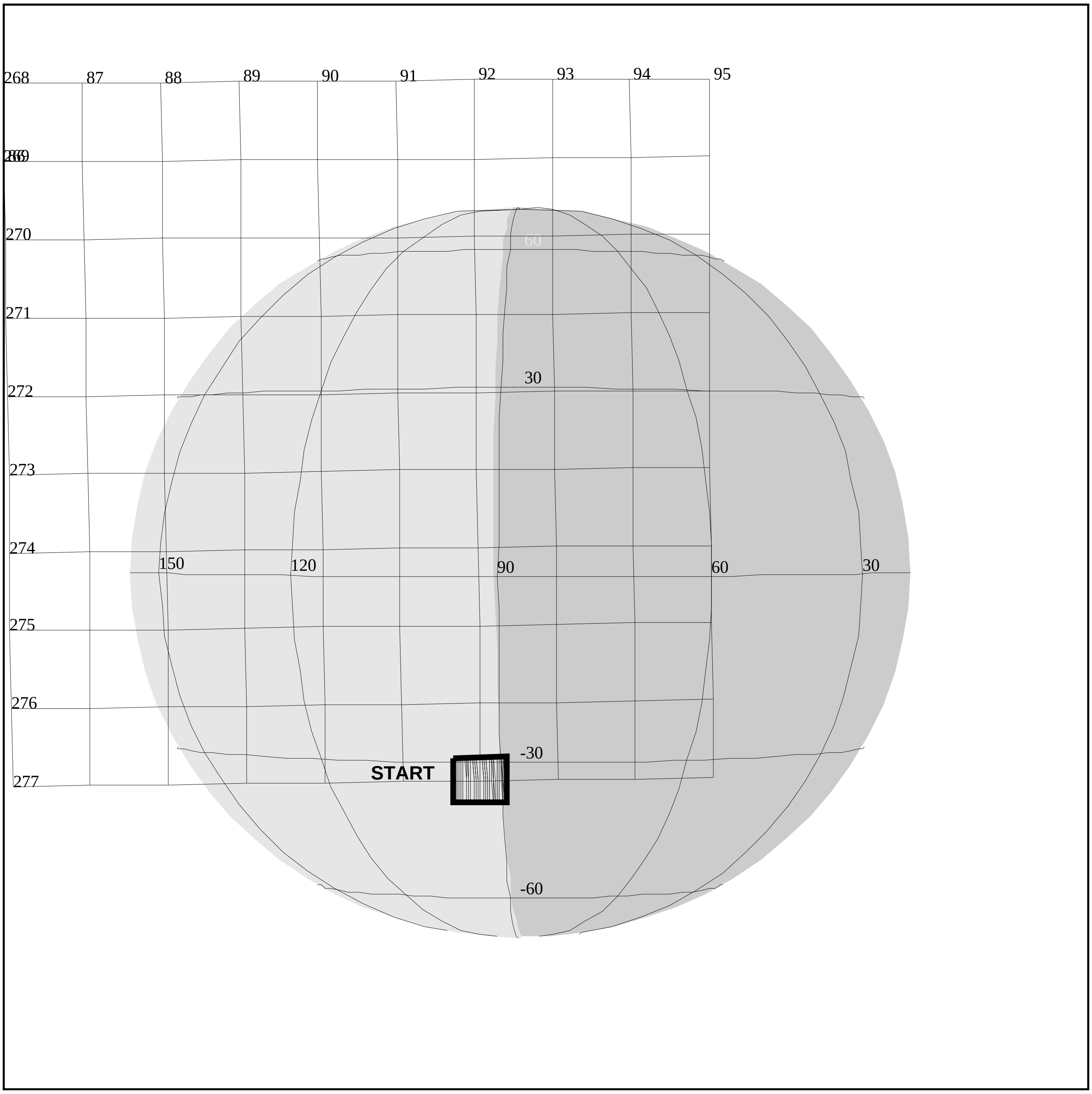

165EJ:TT= 0 TMC= 1 C= -8.50 XC= 0.00 BS= 0/0318 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 34.21 DEC50= 12.37 cone= 91.66 clock=276.98
117EJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0318
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA09503

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA09503

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 +CDS 666:00:0

OBSERVATION:E6JNFEA09503

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

DESCRIP:JUP_FEAT_TRK_95_DEG_PHASE_03

Jupiter Feature Track 95 deg phase pt 3 ACTIVITY ID: E6JNFEA09503-
START TIME: 97-052/08:01:13.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA095 SeqNo 03 -

Title	Jupiter Feature Track 95 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 02/21/97	Week 8

Start	JEE+CDS	00000661:00:0	97-052/08:01:13.266	JEE+000/11:08:20.666
End	JEE+CDS	00000668:00:0	97-052/08:08:17.933	JEE+000/11:15:25.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6JNFEA09503-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 95 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the evening terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude. S/C distance about 0.75 million KM, NIMS IFOV (NIMSEL) = 375 KM; 1*1 mosaic covers 7500*7500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

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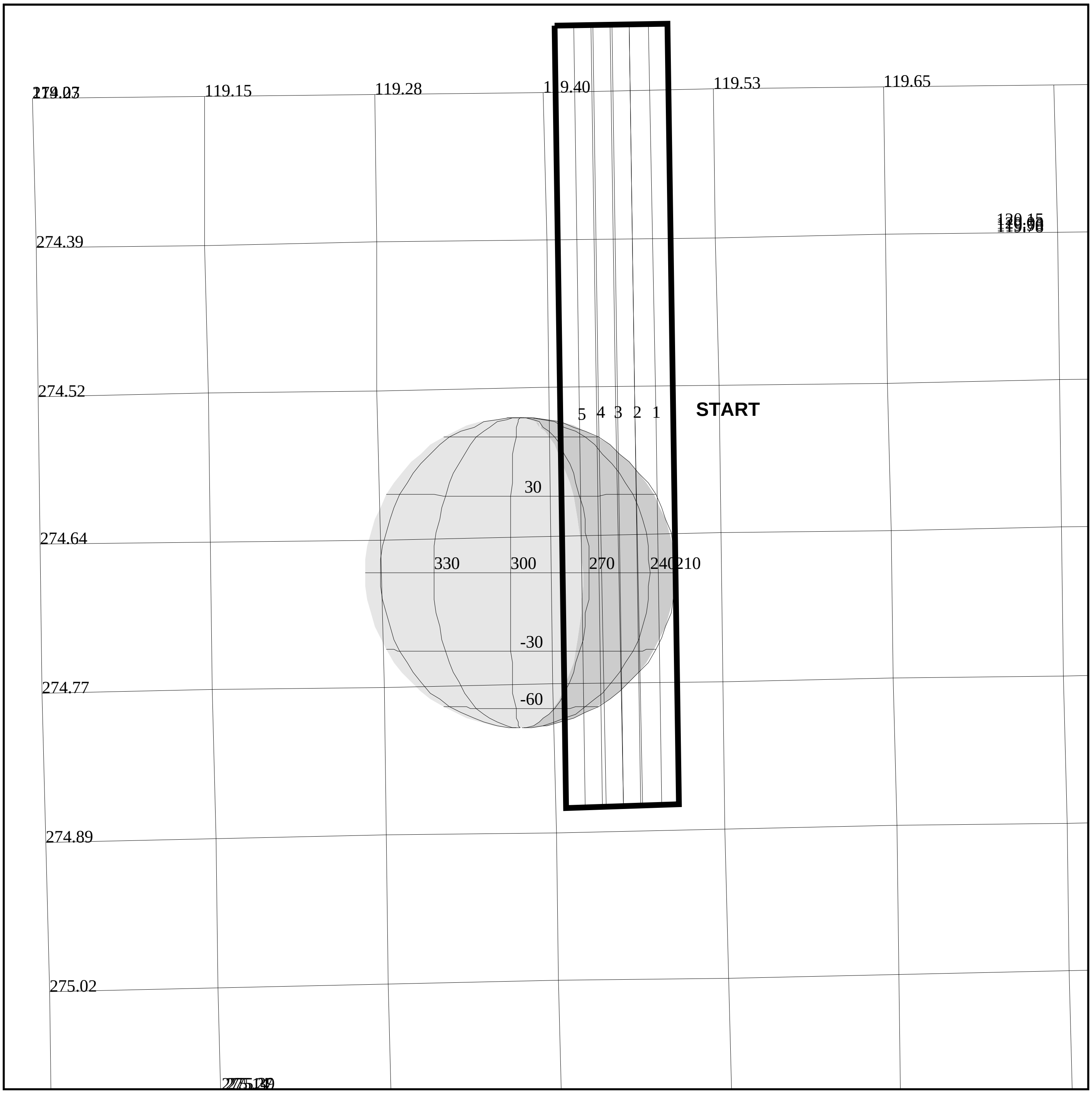

165EK:TT= 0 TMC= 1 C= 1.80 XC= -2.00 BS= 0/2684 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 7.27 DEC50= 4.01 cone=119.49 clock=274.54
117EK:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/2684
1:#s= 1 Cs= -3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 228 rD= 2

E6INVOLCAN01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 +CDS 1203:00:0

OBSERVATION:E6INVOLCAN01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:MONITORING OF SELECTED VOLCANIC

Monitoring of Selected Volcanic Regions ACTIVITY ID: E6INVOLCAN01-
START TIME: 97-052/08:14:21.999

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 01 -

Title	Monitoring of Selected Volcanic Regions				Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES		Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week 8

Start	IEE+CDS	00001198:00:0	97-052/08:14:21.999	IEE+000/20:11:18.666
End	IEE+CDS	00001204:50:0	97-052/08:20:59.333	IEE+000/20:17:56.000
Duration		00000006:50:0	000/00:06:37.334	000/00:06:37.334

Top Label E6INVOLCAN01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:	Kanehekili	(-10 d. lat. +40 d. long.)
	Pelee	(-20 d. lat. -255 d. long.)
	Loki	(+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK67

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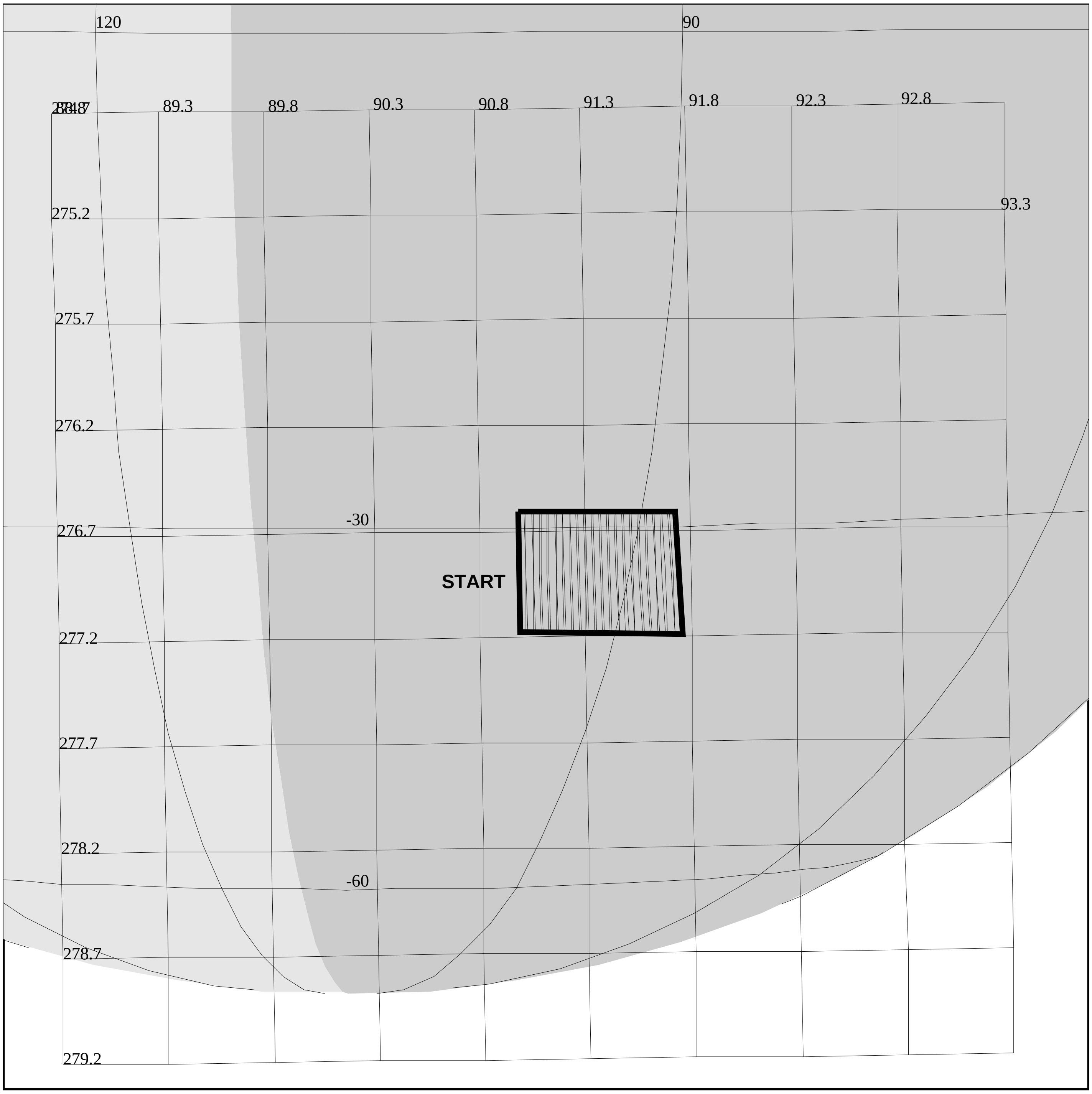

165EL:TT= 0 TMC= 1 C= -7.00 XC= 0.00 BS= 0/7052 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 34.80 DEC50= 12.63 cone= 91.04 clock=276.93
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7052
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -11.40 XCr= 0.00 sD= 1092 rD= 364

E6JNFEA53M01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA53M01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 703:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:E6JNFEA53M01 **DESCRIP:JUP_FEAT_TRK_5_MICRON_MAP_1**

Jupiter Campaign Feature 5 and 3 um Map	ACTIVITY ID:	E6JNFEA53M01-
	START TIME:	97-052/08:38:37.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA53M SeqNo 01 -

Title	Jupiter Campaign Feature 5 and 3 um Map			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 02/21/97	Week 8

Start	JEE+CDS	00000698:00:0	97-052/08:38:37.933	JEE+000/11:45:45.333
End	JEE+CDS	00000719:00:0	97-052/08:59:51.933	JEE+000/12:06:59.333
Duration		00000021:00:0	000/00:21:14.000	000/00:21:14.000

Top Label   E6JNFEA53M01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution 5-micron and 3-micron night-time maps of trace species within the White Oval DE campaign feature. The first scan is a 5-micron map, of complete spectral and spatial sampling over the 4.28 to 5.22 micron interval. The campaign feature, centered at 91.5 degrees west longitude (System III), 33 degrees south latitude, is observed near the central meridian during the phase angle ~ 95 degrees rotation. The feature is scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B.

NOTE: BOTH 3 AND 5 MICRON SPECTRA ARE NOW OBTAINED IN THE FIRST SCAN USING NIMS WAVELENGTH TABLE J35160. SECOND SCAN NOT PLAYED BACK. THIS DECISION MADE AS OF 12/11/96.

Data Returned

Design Detail

Two long map, Nyquist-sampled observations of 1*1 (10*10 mrad) area centered on the campaign feature. S/C distance about 0.76 million KM, map covers 7600*7600 KM. Each scan encompasses about 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks. 4 minutes reserved for targetting. 2 minutes reserved for reposition slew. Total Oapel resources used: 0.72510 MBTG and 0.02418 tracks. Wavelength table changed from J5M80B to J3M80B during the reposition slew between scans. SCIREC #1 stops at end of first scan. SCIREC #2 starts at beginning of subsequent scan.

NOTE: 12/11/96. WAVELENGTH TABLE J35160 NOW USED, RECORDING BOTH 3 AND 5 MICRON DATA. 364 SECONDS OF DATA PLAYBACK, COMPRISING 1.08 MBTG USING COMPRESSION FACTOR OF 1.30.

Long Map (LM), Gain 4, Grating Start 0, LPU, J35160, J35160

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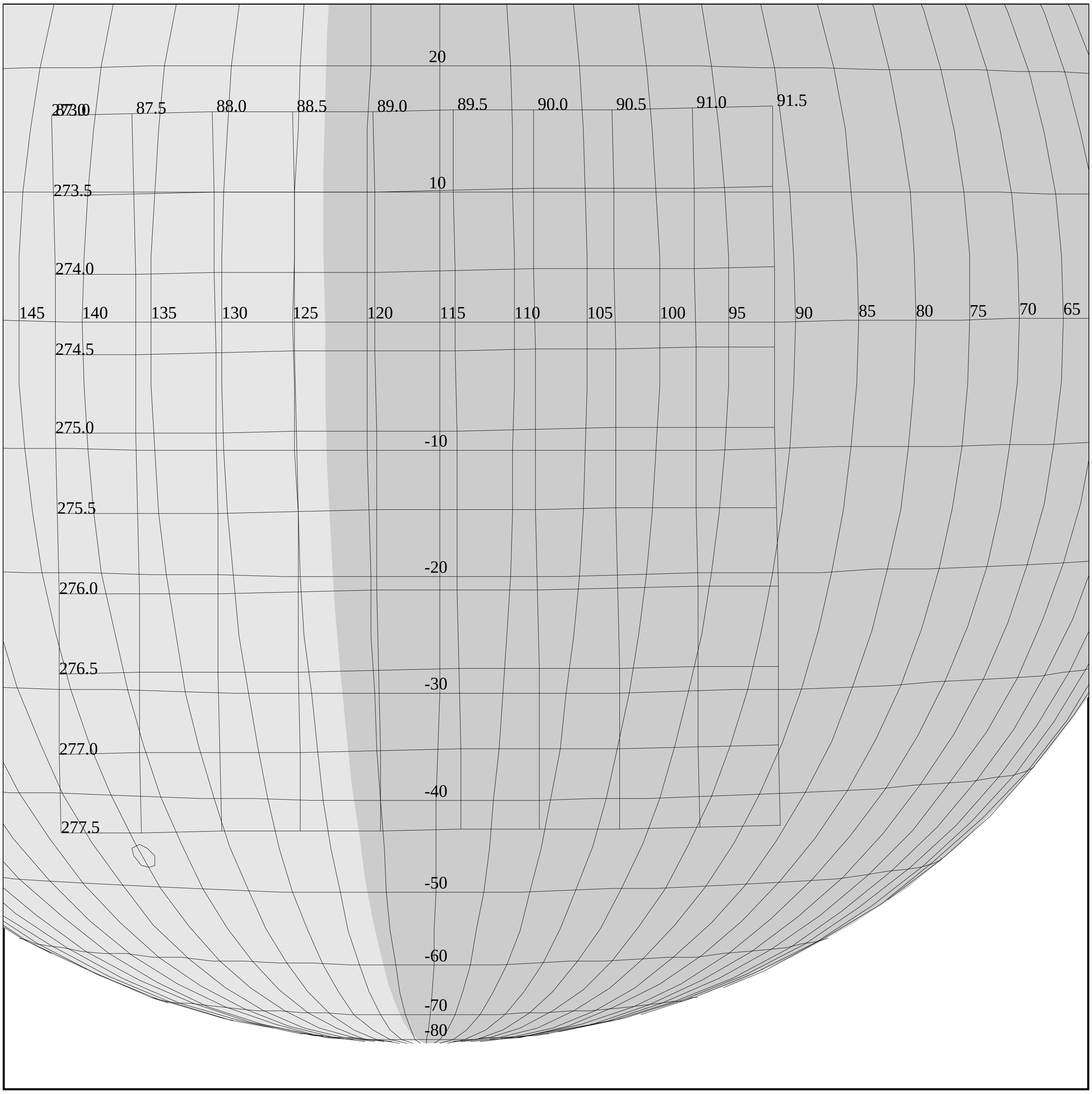

165GG:TT= 0 TMC= 1 C= 22.50 XC= -19.00 BS= 0/9964 TC= 1(-35 125)
A= 182 pD= 0 SR=17.450 RA50= 35.61 DEC50= 13.95 cone= 89.85 clock=275.94
117GG:#SB= 1 OR= 0.630 RR=12.000 BM=F RC= 1 BS= 0/9964
1:#s= 31 Cs= -44.50 XCs= 0.00 Cr= 44.00 XCr= 1.00 sD= 220 rD= 24

E6NNHEALTH05

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JPFT2EM101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING: :PPR 1

START:JEE 97-051/20:52:52.600 +CDS 719:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500

OBSERVATION:E6JPFT2EM101

DESCRIP:LOW_VIEW_WHITE_OVAL_WEST

E6 Health 5	ACTIVITY ID: E6NNHEALTH05- START TIME: 97-052/09:36:15.999

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 05 -

Title	E6 Health 5			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week 8

Start	IEE+CDS	00001279:00:0	97-052/09:36:15.999	IEE+000/21:33:12.666
End	IEE+CDS	00001284:88:0	97-052/09:42:17.999	IEE+000/21:39:14.666
Duration		00000005:88:0	000/00:06:02.000	000/00:06:02.000

Top Label	E6NNHEALTH05-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Required to verify insturment operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6JPFT2EM101

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load	ACTIVITY ID:	E6NIMSP2LD05-
	START TIME:	97-052/09:42:19.999

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 05 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	IEE+CDS	00001285:00:0	97-052/09:42:19.999	IEE+000/21:39:16.666
End	IEE+CDS	00001295:00:0	97-052/09:52:26.666	IEE+000/21:49:23.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	E6NIMSP2LD05-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS, instrument restart, and operational mode set.

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

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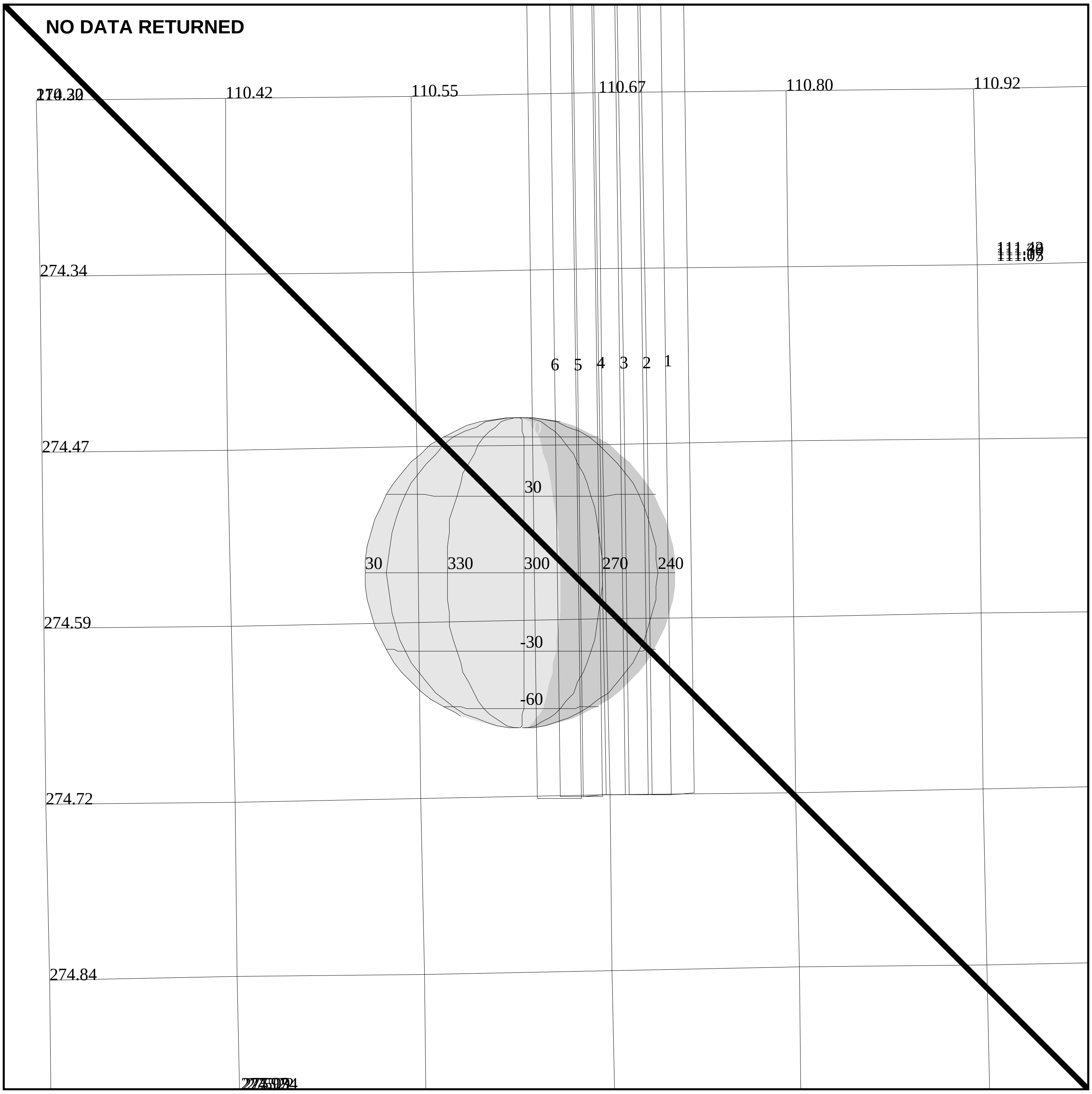

165EM:TT= 0 TMC= 1 C= 1.80 XC= -2.40 BS= 0/0702 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 15.28 DEC50= 7.68 cone=110.72 clock=274.41
117EM:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/0702
1:#s= 1 Cs= -3.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 290 rD= 2

E6INVOLCAN02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 +CDS 1302:00:0

OBSERVATION:E6INVOLCAN02

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:MONITORING OF SELECTED VOLCANIC

Monitoring of Selected Volcanic Regions	ACTIVITY ID:	E6INVOLCAN02-
	START TIME:	97-052/09:53:27.333

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 02 -

Title	Monitoring of Selected Volcanic Regions			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week 8

Start	IEE+CDS	00001296:00:0	97-052/09:53:27.333	IEE+000/21:50:24.000
End	IEE+CDS	00001303:70:0	97-052/10:01:18.666	IEE+000/21:58:15.333
Duration		00000007:70:0	000/00:07:51.333	000/00:07:51.333

Top Label   E6INVOLCAN02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:
- Kanehekili (-10 d. lat. +40 d. long.)
- Pelee (-20 d. lat. -255 d. long.)
- Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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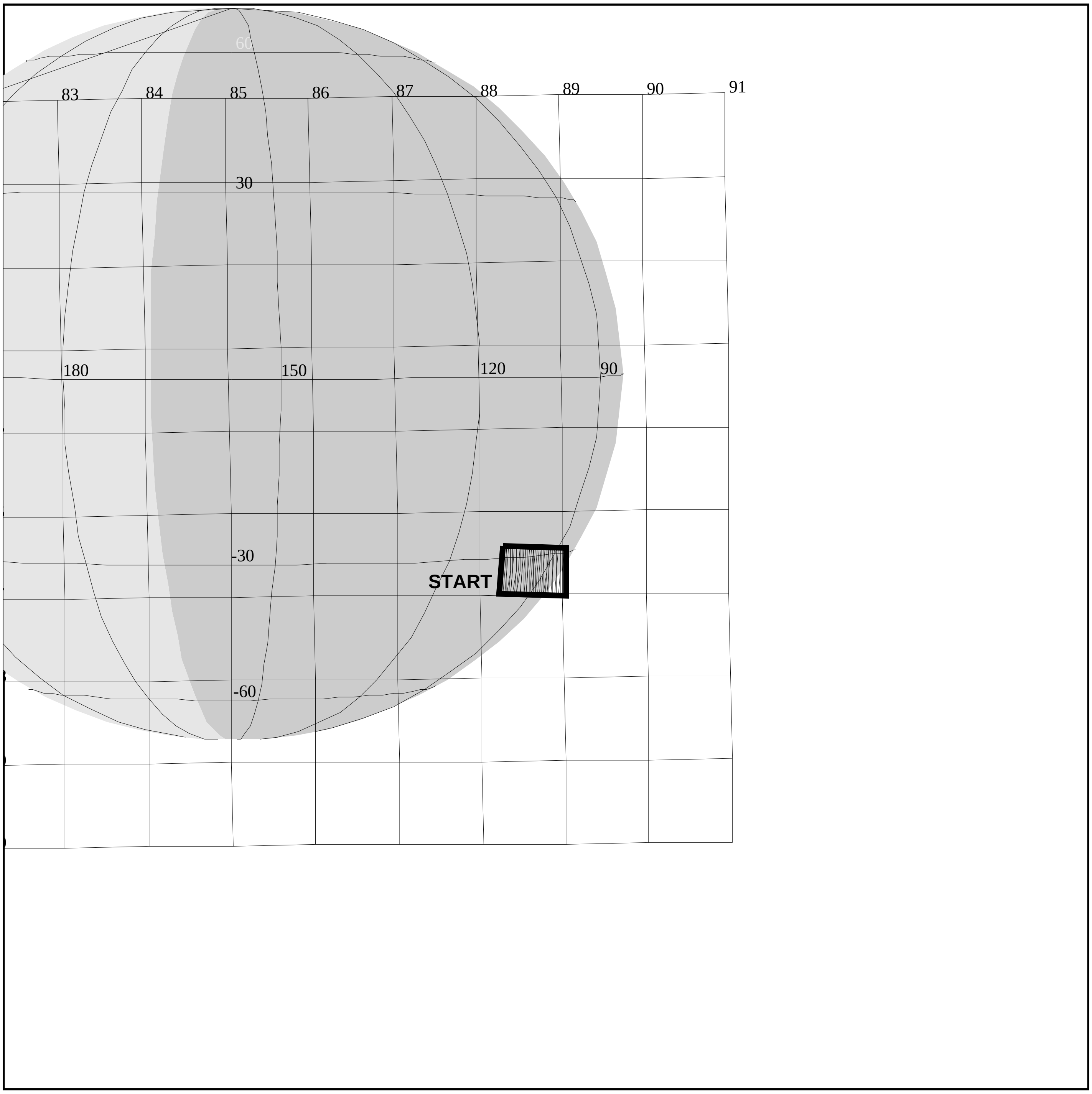

165EN:TT= 0 TMC= 1 C= -9.80 XC= 0.00 BS= 0/1976 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 37.20 DEC50= 13.66 cone= 88.48 clock=276.73
117EN:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1976
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

E6JNFEA5UM01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA5UM01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-051/20:52:52.600 +CDS 785:00:0 **BODY PLOT TIME:97-052/10:13:41 D= 0 S= 0.750**

OBSERVATION:E6JNFEA5UM01 **DESCRIP:JUP_FEAT_TRK_5_MICRON_MAP_2**

Jupiter Feature Track 5 Micron Map 2	ACTIVITY ID:	E6JNFEA5UM01-
	START TIME:	97-052/10:01:32.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA5UM SeqNo 01 -

Title	Jupiter Feature Track 5 Micron Map 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	JEE+CDS	00000780:00:0	97-052/10:01:32.600	JEE+000/13:08:40.000
End	JEE+CDS	00000791:30:0	97-052/10:12:59.933	JEE+000/13:20:07.333
Duration		00000011:30:0	000/00:11:27.333	000/00:11:27.333

Top Label	E6JNFEA5UM01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution 5-micron night-time map of trace species within the White Oval DE campaign feature. This is the second 5-um map obtained during the 95 degree phase angle rotation, the other having been obtained during OAPEL E6JNFEA53M01-. The campaign feature, centered at 91.5 degrees west longitude (System III), 33 degrees south latitude (planetographic), observ near 60 degrees emission angle during the phase angle ~ 95 degrees rotation. The feature is scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B: 4.28 - 5.22 microns.

Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the campaign feature. S/C distance 0.84 million KM, map covers 8400*8400 KM. About 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks. 4 minutes reserved for targetting.

NOTE: 1/13/97: AREA REDUCED BY HALF TO ACCOMODATE REDUCED BTG BUDGET.
NOW IS A 1/2X 1
AREA OBSERVED IN 182 SECONDS OF SCANNING.
TOTAL MBTG IS NOW 2.27 MBTG,
ASSUMING A MORE REALISTIC 1.30 COMPRESSION FACTOR.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5M235B, J5M80B

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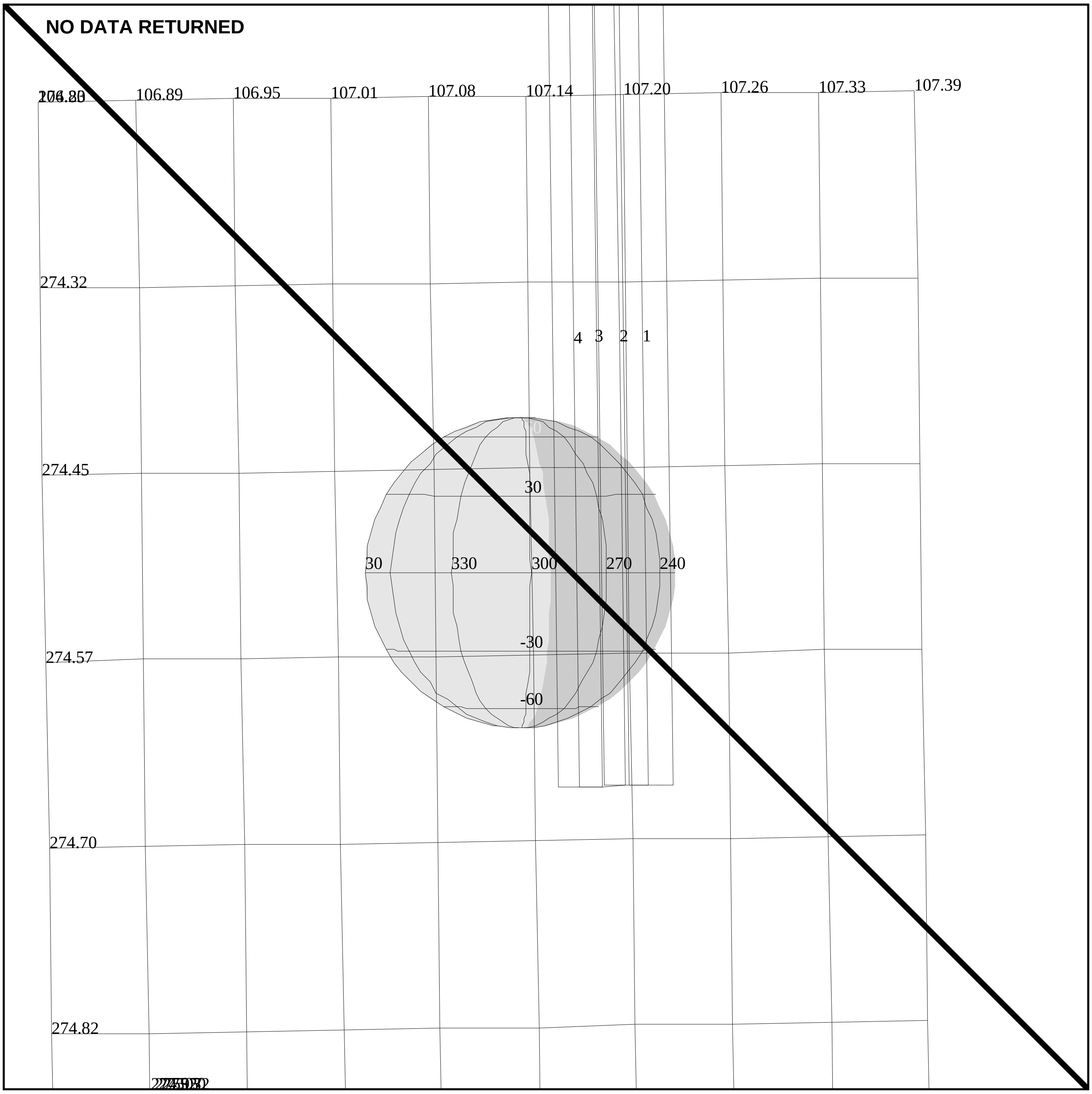

165EO:TT= 0 TMC= 1 C= 1.50 XC= -2.60 BS= 0/8164 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 18.51 DEC50= 9.11 cone=107.22 clock=274.36
117EO:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/8164
1:#s= 1 Cs= -2.22 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 170 rD= 2

E6INVOLCAN03

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 +CDS 1343:00:0

OBSERVATION:E6INVOLCAN03

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:MONITORING OF SELECTED VOLCANIC

Monitoring of Selected Volcanic Regions	ACTIVITY ID:	E6INVOLCAN03-
	START TIME:	97-052/10:36:55.999

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 03 -

Title	Monitoring of Selected Volcanic Regions			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	IEE+CDS	00001339:00:0	97-052/10:36:55.999	IEE+000/22:33:52.666
End	IEE+CDS	00001344:12:0	97-052/10:42:07.333	IEE+000/22:39:04.000
Duration		00000005:12:0	000/00:05:11.334	000/00:05:11.334

Top Label E6INVOLCAN03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:	Kanehekili	(-10 d. lat. +40 d. long.)
	Pelee	(-20 d. lat. -255 d. long.)
	Loki	(+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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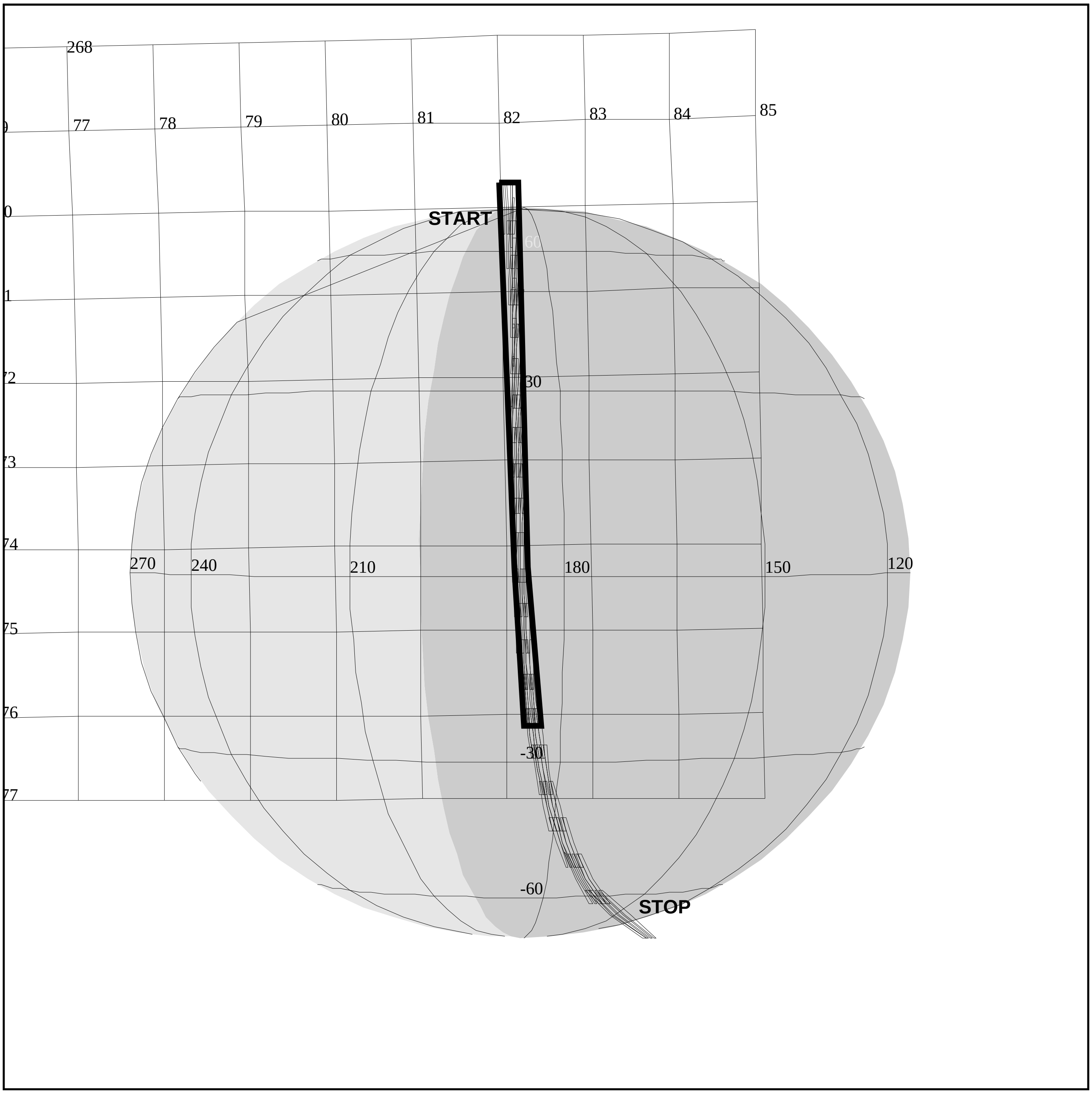


165EP:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/2896 TC= 1(80 185)
A= 728 pD= 0 SR=17.450 RA50= 41.48 DEC50= 22.01 cone= 82.02 clock=270.04
117EP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2896
1:#s= 21 Cs= 2.00 XCs= 0.00 Cr= -2.00 XCr= 7.10 sD= 208 rD= 50

E6JNTHRMNS01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNTHRMNS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 +CDS 845:00:0

OBSERVATION:E6JNTHRMNS01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

DESCRIP:JUP_THERMAL_NORTH_SOUTH_STRIPES

Jupiter Thermal North South Stripe   ACTIVITY ID: E6JNTHRMNS01-
START TIME: 97-052/11:02:12.600

Activity ID: Orbit E6 Target J Inst N OAPEL THRMNS SeqNo 01 -

Title	Jupiter Thermal North South Stripe			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS   Load ID   Calendar Date 02/21/97 Week 8

Start	JEE+CDS	00000840:00:0	97-052/11:02:12.600	JEE+000/14:09:20.000
End	JEE+CDS	00000876:00:0	97-052/11:38:36.600	JEE+000/14:45:44.000
Duration		00000036:00:0	000/00:36:24.000	000/00:36:24.000

Top Label E6JNTHRMNS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Jupiter North/South, pole to pole night-time stripe for pole to pole assessment of lower-troposphere properties such as phosphine abundance variation and 5-um variability of ammonia cloud opacity. Night time observation of central meridian at 95 degree phase angle opportunity near 12 Rj, using NIMS wavelength table J5M80A spanning 4.279 - 5.220 microns.

NOTE: 1/13/97 - REDUCED BTG BUDGET LIMITS PLAYBACK TO 3/4 OF THE ORIGINAL LATITUDE COVERAGE. NORTH POLE TO APPROXIMATELY 30 DEGREES SOUTH LATITUDE NOW RETURNED.

Data Returned

Design Detail

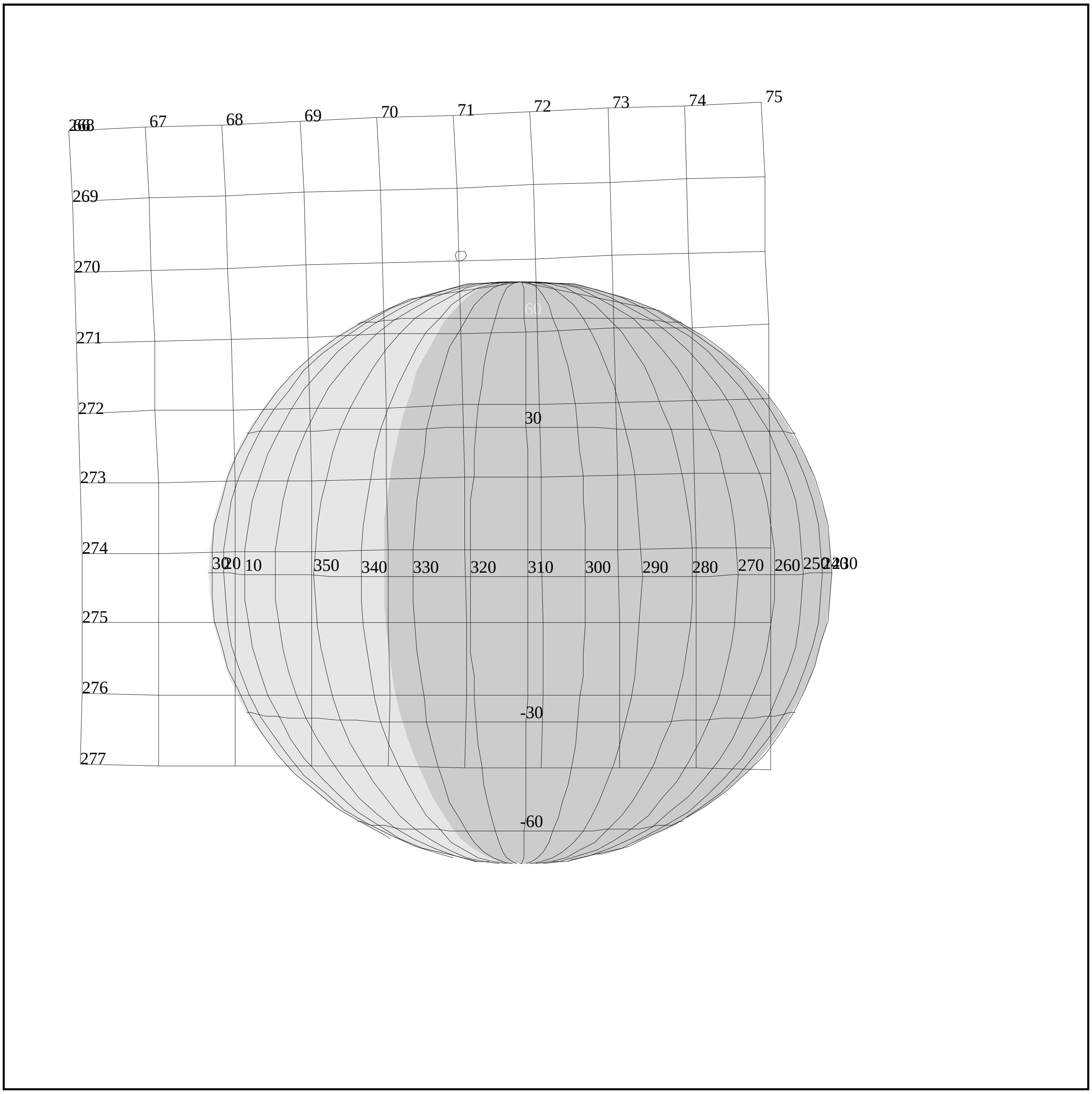
Long map, Nyquist sampled observation of central meridian from pole to pole. About 21 tiers, each tier acquiring 8 spectra, spanning 2.0 mradians in the east-west direction covering 1.5 degrees of Jovian longitude. Each tier lasts 86.7 seconds including 17.333 sec for repositiong to the next tier. Total observations time is 20*86.6667+8*8.6667 = 1802.667 sec = 00:30:02.667 resulting in recording 0.06056 tracks to return 1.815 Mbtg.
4 rims reserved for targetting.

NOTE: 1/13/97 - ABOUT 1340 SECONDS OF THE DATA RETURNED RESULTING IN 1.98 MBTG, ASSUMING A MORE REALISTIC COMPRESSION FACTOR OF 1.30.

Northern 15 of 21 Swaths returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5253A, J5M80A

Galileo Activity Plan Form   01/21/97 14:44:52 rev 6/95



165GY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3300 TC= 2(70.05 278.48)
A= 728 pD= 0 SR=17.450 RA50= 56.05 DEC50= 17.31 cone= 70.05 clock=278.48
117GY:#SB= 3 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/3300
1:#s= 1 Cs= -22.00 XCs= -50.00 Cr= 0.00 XCr= 0.00 sD= 1638 rD= 2
2:#s= 1 Cs= 2.00 XCs= -45.00 Cr= 0.00 XCr= -0.50 sD= 1456 rD= 32
3:#s= 1 Cs= 15.50 XCs= -43.00 Cr= 0.00 XCr= -0.50 sD= 1384 rD= 32

E6NNHEALTH06

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JPNSSTRP03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING: :PPR 1

START:JEE 97-051/20:52:52.600 +CDS 1067:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.600

OBSERVATION:E6JPNSSTRP03

DESCRIP:Jupiter North-South strip/114phs

E6 Health 6		ACTIVITY ID:	E6NNHEALTH06-
		START TIME:	97-052/15:59:28.600

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 06 -

Title	E6 Health 6			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	GEE-CDS	00000026:00:0	97-052/15:59:28.600	GEE-000/00:26:17.333
End	GEE-CDS	00000021:00:0	97-052/16:04:31.933	GEE-000/00:21:14.000
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label	E6NNHEALTH06-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Required to verify insturment operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6JPNSSTRP03

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

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NIMS Software Load	ACTIVITY ID: E6NIMSP2LD06- START TIME: 97-052/16:05:32.600

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 06 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	GEE-CDS	00000020:00:0	97-052/16:05:32.600	GEE-000/00:20:13.333
End	GEE-CDS	00000011:00:0	97-052/16:14:38.600	GEE-000/00:11:07.333
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	E6NIMSP2LD06-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

```
6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor (37PL)
37MRL  - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT  - Instrument Reset
37MN   - Memory Normal
37IST  - Chopper Reference
```

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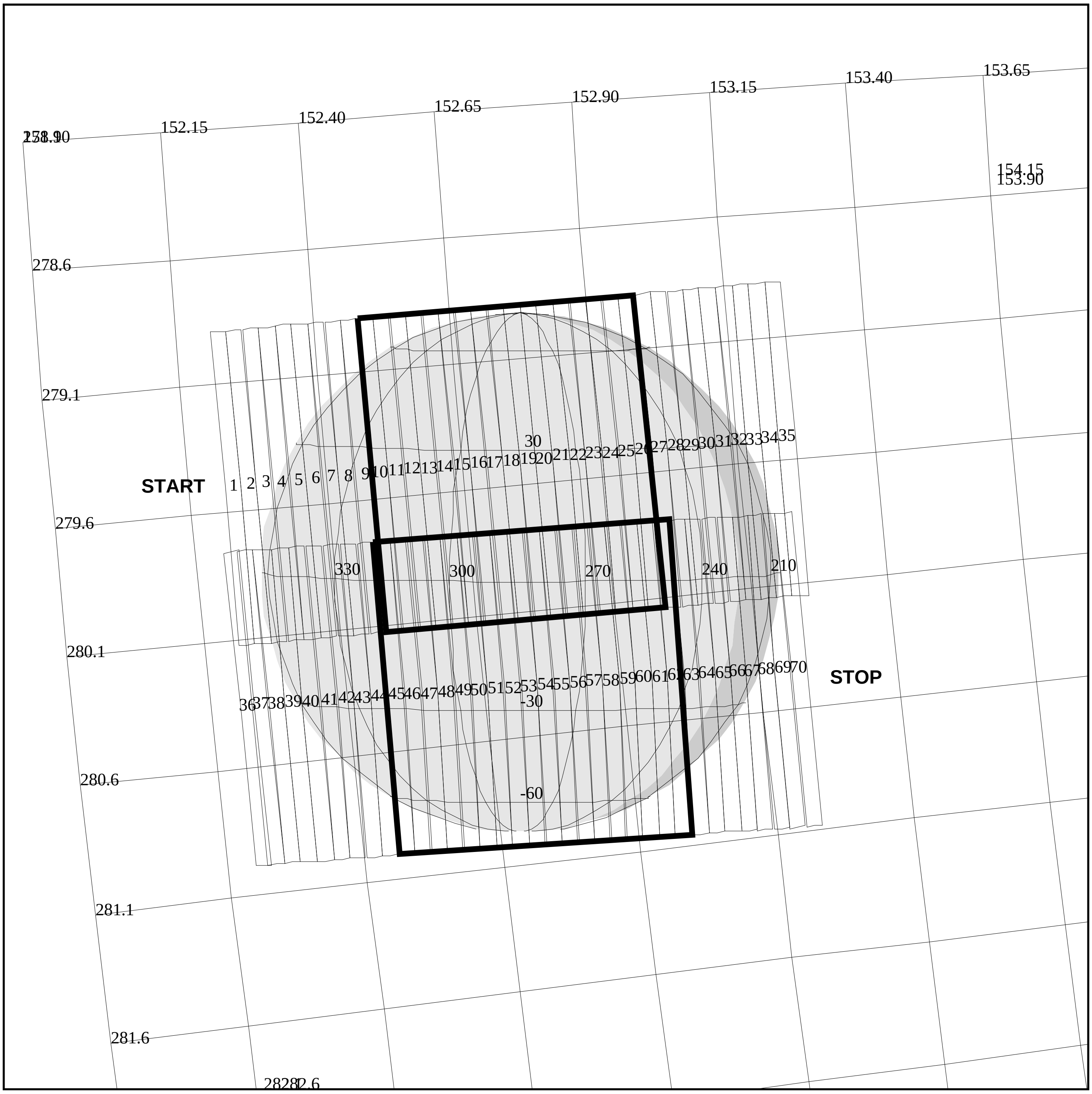

165FZ:TT= 0 TMC= 1 C= -9.00 XC= -3.50 BS= 0/9134 TC= 3
A= 728 pD= 3656 SR=17.450 RA50=338.11 DEC50=-11.51 cone=152.22 clock=279.47
117FZ:#SB= 1 OR= 0.030 RR=17.000 BM=F RC= 1 BS= 0/9134
1:#s= 2 Cs= 18.00 XCs= 0.00 Cr= -18.00 XCr= 7.00 sD= 1806 rD= 38

E6GNGLOBAL01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6GNGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:GEE 97-052/16:25:45.933 -CDS 06:00:0

BODY PLOT TIME:TARGET-TIME D= 3656 S= 0.500

OBSERVATION:E6GNGLOBAL01

DESCRIP:GANYMEDE GLOBAL MAP

NIMS Ganymede Global Map		ACTIVITY ID:	E6GNGLOBAL01-
		START TIME:	97-052/16:15:32.600

Activity ID: Orbit E6 Target G Inst N OAPEL GLOBAL SeqNo 01 -

Title	NIMS Ganymede Global Map			Instrument	NIMS
Requestor	NIMS-SWG/J. Hui	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 02/21/97 Week 8

Start	GEE-CDS 00000010:10:0	97-052/16:15:32.600	GEE-000/00:10:13.333
End	GEE+CDS 00000017:75:0	97-052/16:43:47.266	GEE+000/00:18:01.333
Duration	00000027:85:0	000/00:28:14.666	000/00:28:14.666

Top Label E6GNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

The objective is to obtain moderate spatial resolution map of the whole satellite disk. This observation will investigate the surface mineralogy and determine the global distribution of compositional units on a global context. The global map can be used to compare Ganymede's similarity to or difference from the other sattelite.

Data Returned

Design Detail

2 strips to cover lit surface
CSMOS slew at 0.03 mrad/sec

Mode = LM
Gain State = 3
Chopper Reference
Record Mode = LPU
Wavelengths returned = 204
Longitude = 210 to 360 degrees
Resolution approximately 160 KM

Central Longitudes Returned Only.

Long Map (LM), Gain 3, Grating Start 0, LPU, GLM245D, GLM192

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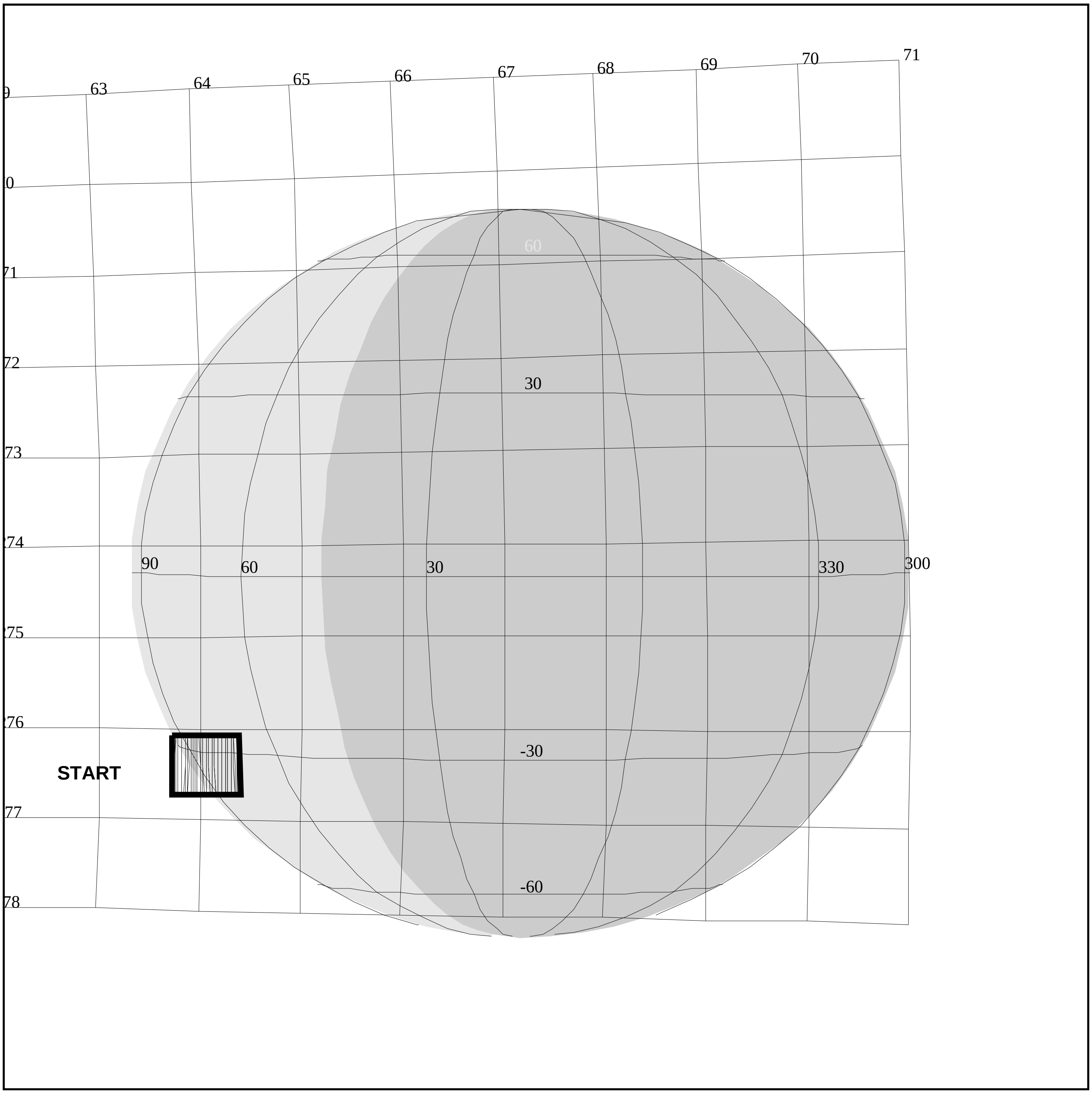

165EQ:TT=   0 TMC= 1 C=   -4.00 XC=   0.00 BS= 0/4230 TC= 1(-33   91.5   )
A= 728 pD=   0 SR=17.450 RA50= 62.12 DEC50= 20.58 cone= 63.72 clock=276.40
117EQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4230
1:#s= 1 Cs=   10.90 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   300 rD=   2

E6JNFEA12401

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA12401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600   +CDS 1182:00:0

OBSERVATION:E6JNFEA12401

THINNING:NIM   2

BODY PLOT TIME:TARGET-TIME D=   0 S= 0.750

DESCRIP:JUP_FEAT_TRK_124_DEG_PHASE_01

Jupiter Feature Track 124 deg phase pt 1 ACTIVITY ID: E6JNFEA12401-
START TIME: 97-052/16:43:51.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA124 SeqNo 01 -

Title	Jupiter Feature Track 124 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID Calendar Date 02/21/97 Week 8

Start	JEE+CDS	00001177:81:0	97-052/16:43:51.266	JEE+000/19:50:58.666
End	JEE+CDS	00001184:00:0	97-052/16:50:01.933	JEE+000/19:57:09.333
Duration		00000006:10:0	000/00:06:10.667	000/00:06:10.667

Top Label E6JNFEA12401-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 124 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the bright limb, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.06 million KM, NIMS IFOV (NIMSEL) = 530 KM; 1*1 mosaic covers 10600*10600 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

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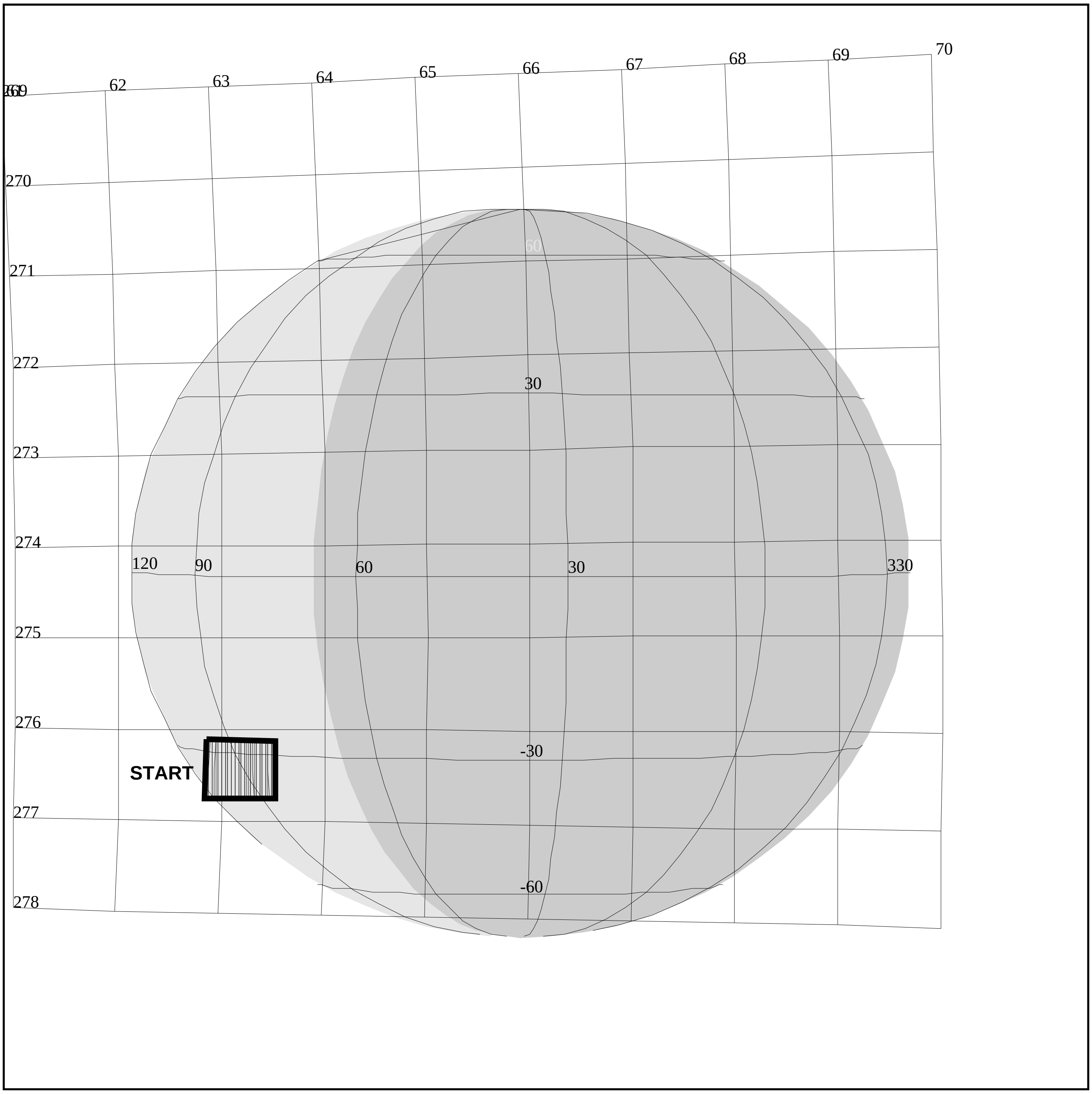


165ER:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/0418 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 63.03 DEC50= 20.72 cone= 62.86 clock=276.44
117ER:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0418
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA12402

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA12402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 +CDS 1216:00:0

OBSERVATION:E6JNFEA12402

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

DESCRIP:JUP_FEAT_TRK_124_DEG_PHASE_02

Jupiter Feature Track 124 deg phase pt 2 ACTIVITY ID: E6JNFEA12402-
START TIME: 97-052/17:17:19.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA124 SeqNo 02 -

Title Jupiter Feature Track 124 deg phase pt 2Instrument NIMS
Requestor NIMS-AWG/K. BAINES Team NIMS Working Group AWG

Time System CDS Load ID Calendar Date 02/21/97 Week 8

Start	JEE+CDS	00001211:00:0	97-052/17:17:19.933	JEE+000/20:24:27.333
End	JEE+CDS	00001218:00:0	97-052/17:24:24.600	JEE+000/20:31:32.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6JNFEA12402-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

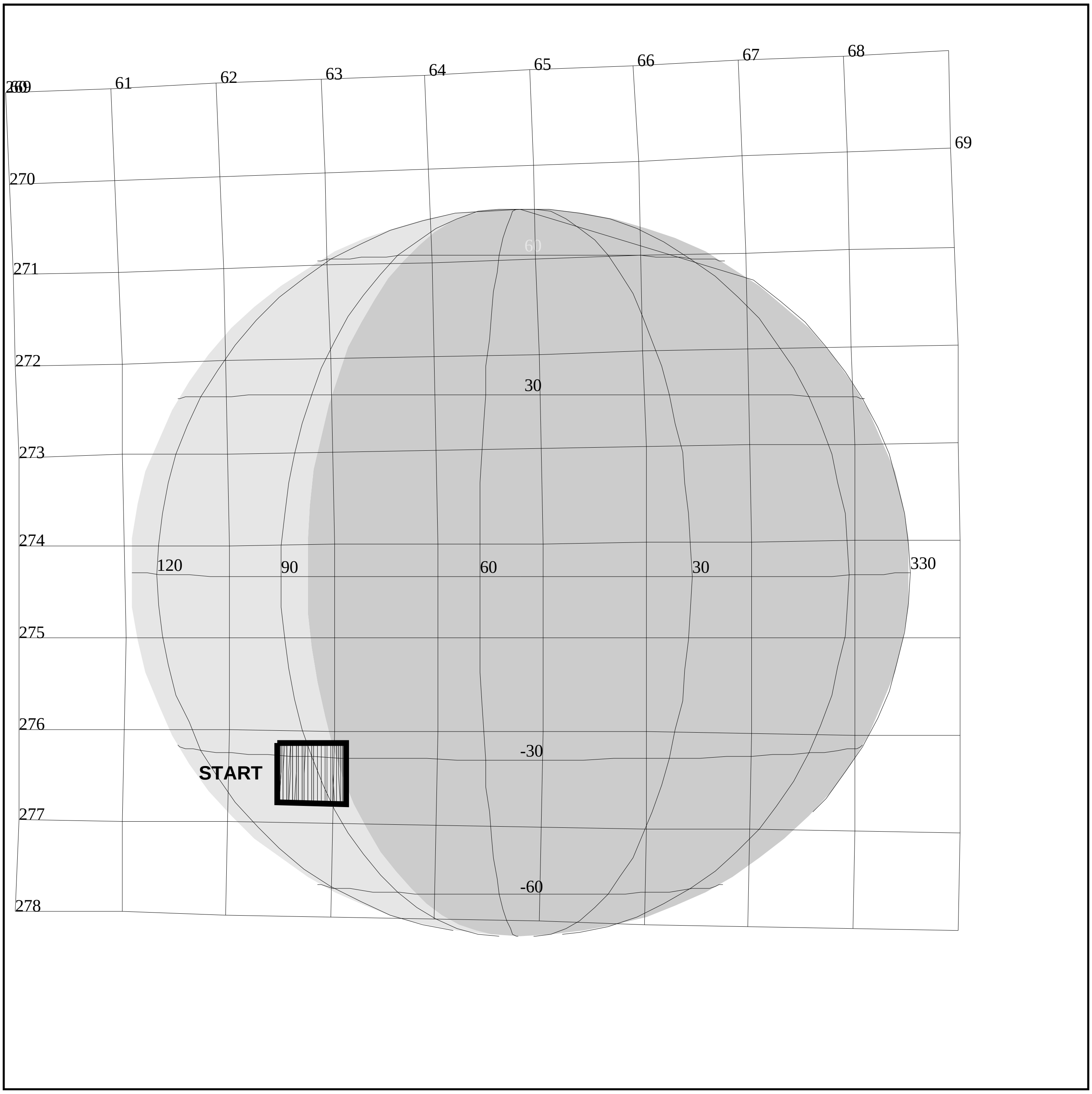
One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 124 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature about midway between bright limb and terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.05 million KM, NIMS IFOV (NIMSEL) = 525 KM; 1*1 mosaic covers 10500*10500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT20A



165ES:TT=   0 TMC= 1 C=   -5.50 XC=   0.00 BS= 0/6060 TC= 1(-33   91.5   )
A= 728 pD=   0 SR=17.450 RA50= 63.44 DEC50= 20.78 cone= 62.47 clock=276.46
117ES:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6060
1:#s= 1 Cs=   10.90 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   300 rD=   2

E6JNFEA12403

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA12403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM   2

START:JEE 97-051/20:52:52.600   +CDS 1247:00:0

BODY PLOT TIME:TARGET-TIME D=   0 S= 0.750

OBSERVATION:E6JNFEA12403

DESCRIP:JUP_FEAT_TRK_124_DEG_PHASE_03

Jupiter Feature Track 124 deg phase pt 3 ACTIVITY ID: E6JNFEA12403-
START TIME: 97-052/17:48:40.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA124 SeqNo 03 -

Title	Jupiter Feature Track 124 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week	8

Start	JEE+CDS	00001242:00:0	97-052/17:48:40.600	JEE+000/20:55:48.000
End	JEE+CDS	00001249:00:0	97-052/17:55:45.266	JEE+000/21:02:52.666
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label E6JNFEA12403-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 124 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the evening terminator, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (system III

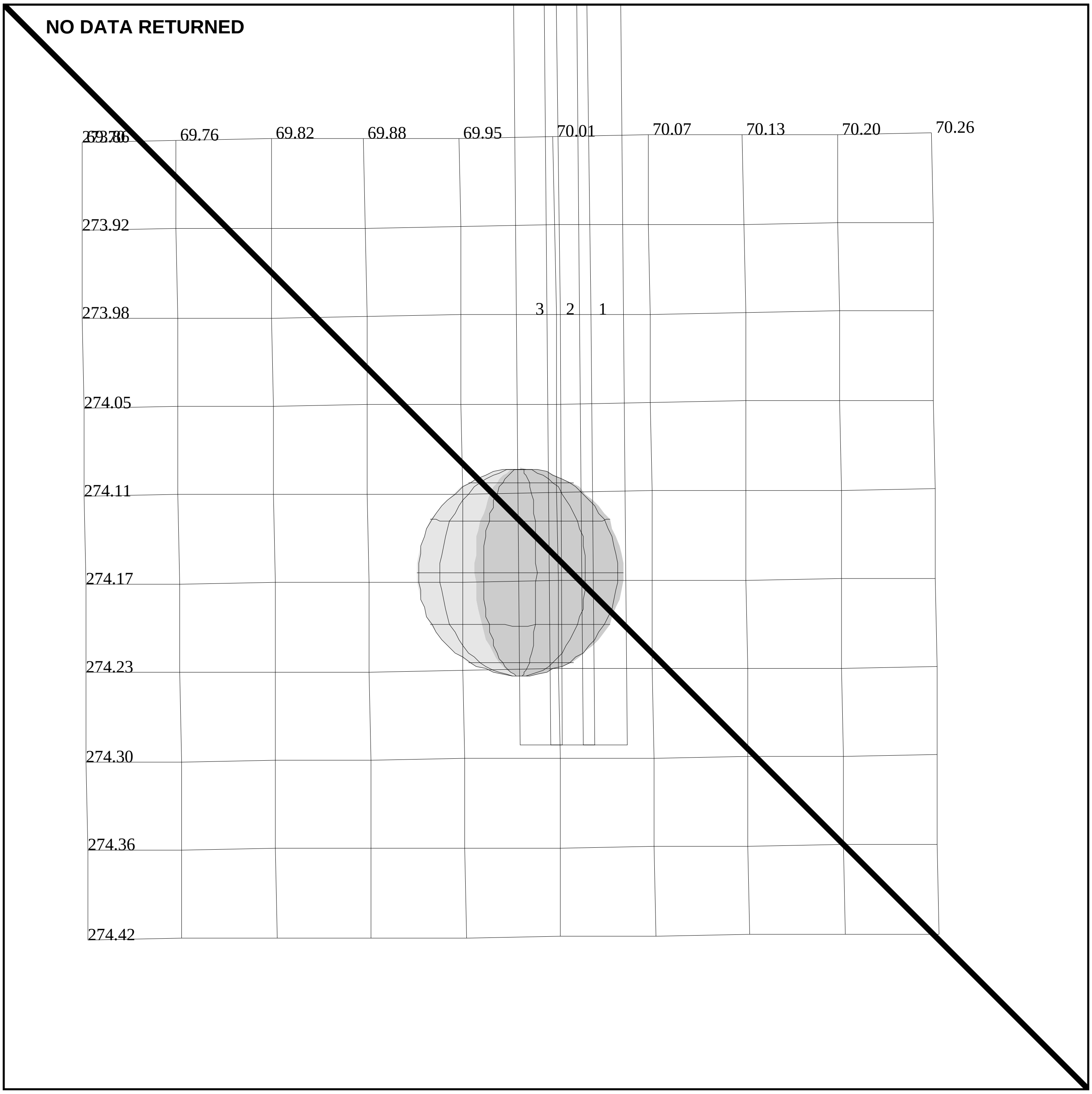
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.05 million KM, NIMS IFOV (NIMSEL) = 525 KM; 1*1 mosaic covers 10500*10500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68A, JFT04A

Galileo Activity Plan Form 01/21/97 14:44:53 rev 6/95



165ET:TT= 0 TMC= 1 C= 1.05 XC= -3.00 BS= 0/0438 TC= 3
A= 364 pD= 0 SR=17.450 RA50= 55.00 DEC50= 21.42 cone= 70.04 clock=273.98
117ET:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/0438
1:#s= 1 Cs= -1.55 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 120 rD= 2

E6INVOLCAN04

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-051/12:03:03.333 +CDS 1850:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:E6INVOLCAN04 **DESCRIP:MONITORING OF SELECTED VOLCANIC**

Monitoring of Selected Volcanic Regions ACTIVITY ID: E6INVOLCAN04-
START TIME: 97-052/19:10:34.666

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 04 -

Title	Monitoring of Selected Volcanic Regions			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 02/21/97 Week 8

Start	IEE+CDS	00001847:00:0	97-052/19:10:34.666	IEE+001/07:07:31.333
End	IEE+CDS	00001851:00:0	97-052/19:14:37.333	IEE+001/07:11:34.000
Duration		00000004:00:0	000/00:04:02.667	000/00:04:02.667

Top Label E6INVOLCAN04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features: Kanehekili (-10 d. lat. +40 d. long.)
Pelee (-20 d. lat. -255 d. long.)
Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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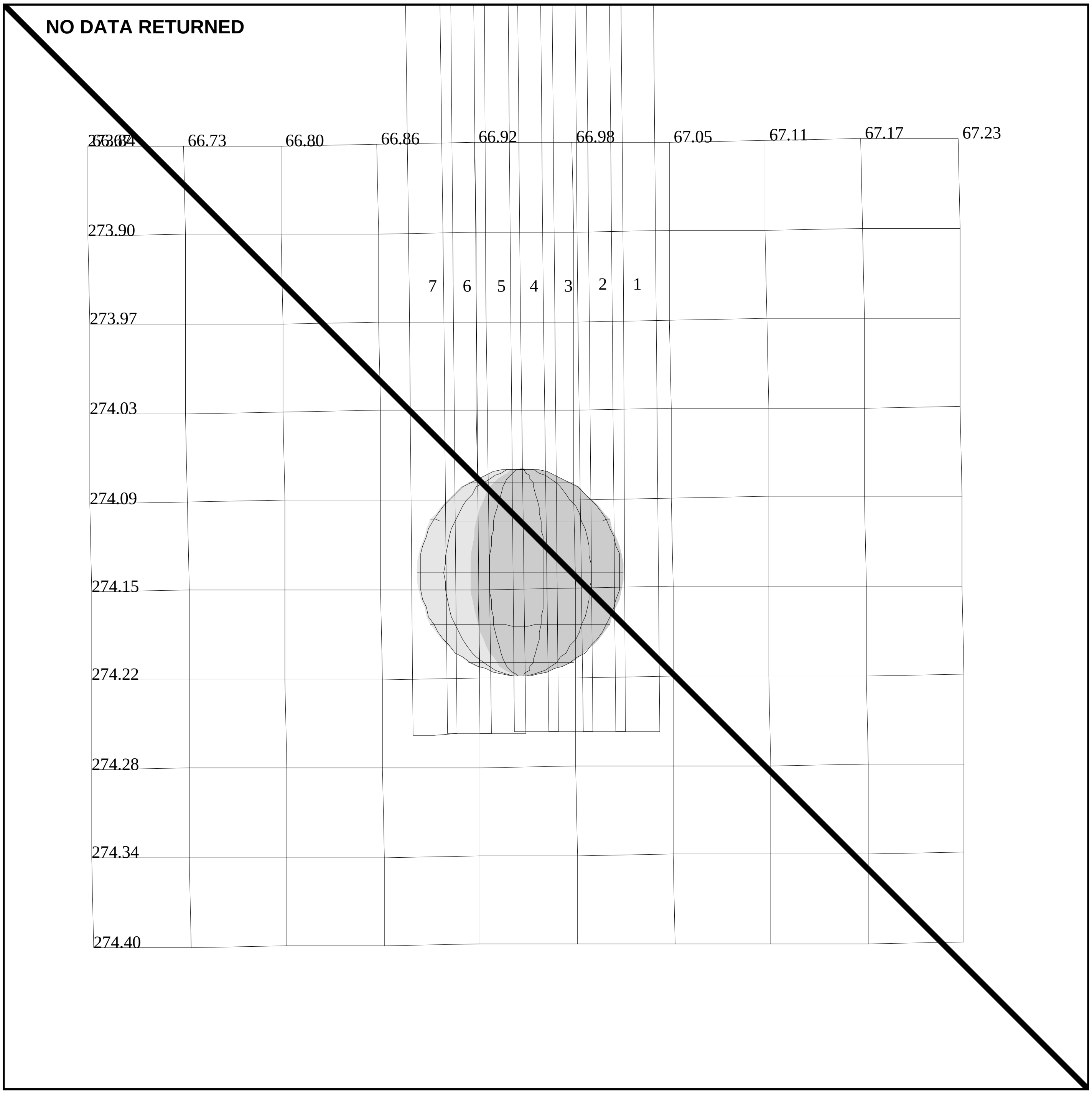

165EU:TT= 0 TMC= 1 C= 1.40 XC= -3.20 BS= 0/9174 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 58.16 DEC50= 22.10 cone= 67.03 clock=273.94
117EU:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/9174
1:#s= 1 Cs= -4.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

E6INTHRMAL02

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INTHRMAL02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 +CDS 1898:00:0

OBSERVATION:E6INTHRMAL02

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200

DESCRIP:MONITORING OF IO NIGHTSIDE

Monitoring of IO's Nightside ACTIVITY ID: E6INTHRMAL02-
START TIME: 97-052/19:58:05.999

Activity ID: Orbit E6 Target I Inst N OAPEL THRMAL SeqNo 02 -

Title	Monitoring of IO's Nightside			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/21/97	Week 8

Start	IEE+CDS	00001894:00:0	97-052/19:58:05.999	IEE+001/07:55:02.666
End	IEE+CDS	00001900:00:0	97-052/20:04:09.999	IEE+001/08:01:06.666
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label E6INTHRMAL02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.

Instrument mode: Long Map,
Number of Wavelengths: 51,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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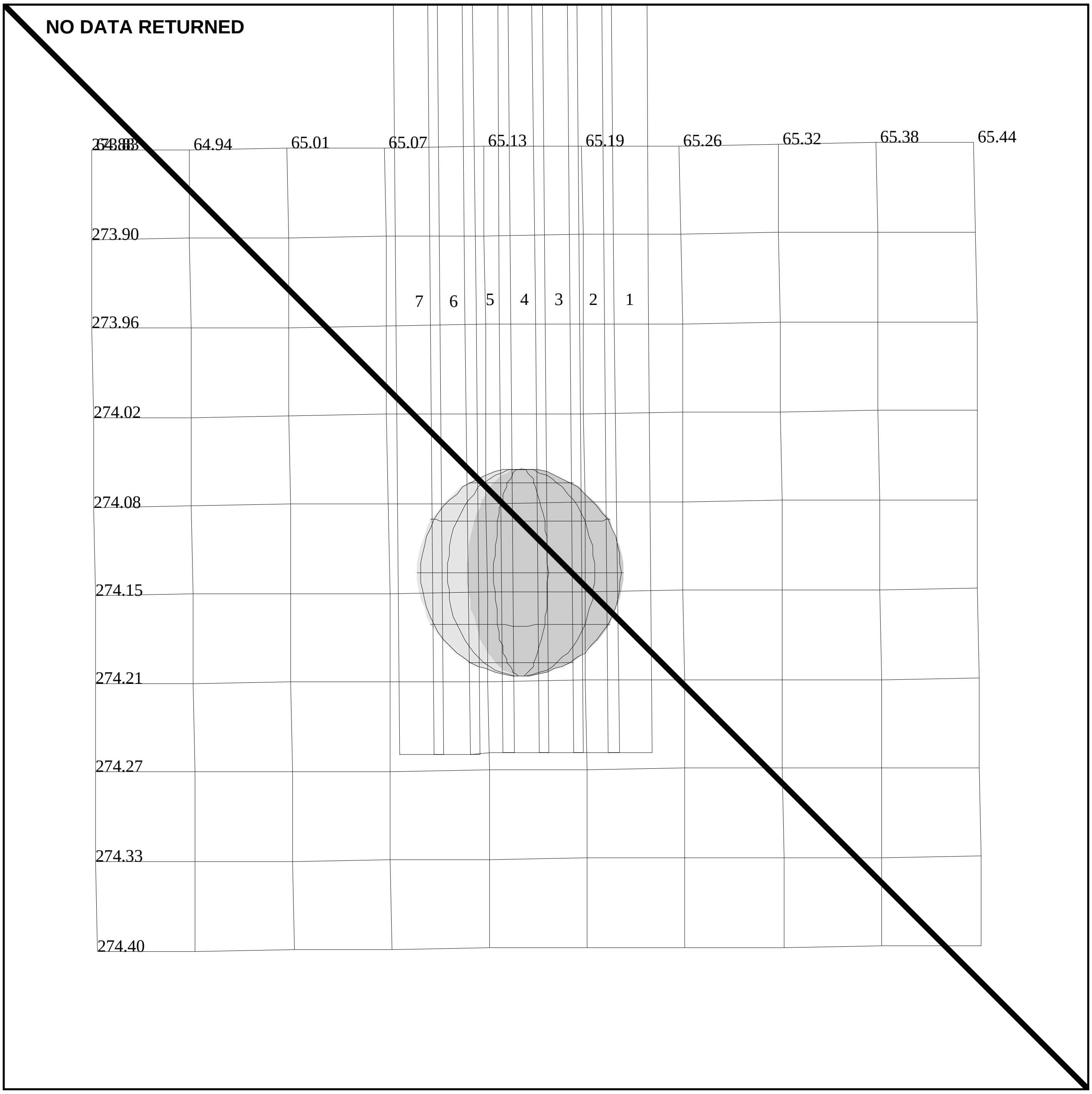

165EV:TT= 0 TMC= 1 C= 1.30 XC= -3.00 BS= 0/4452 TC= 3
A= 364 pD= 0 SR=17.450 RA50= 60.07 DEC50= 22.47 cone= 65.23 clock=273.94
117EV:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/4452
1:#s= 1 Cs= -4.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

E6INVOLCAN05

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6INVOLCAN05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:IEE 97-051/12:03:03.333 +CDS 1927:00:0

OBSERVATION:E6INVOLCAN05

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200

DESCRIP:MONITORING OF SELECTED VOLCANIC

Monitoring of Selected Volcanic Regions ACTIVITY ID: E6INVOLCAN05-
START TIME: 97-052/20:28:25.999

Activity ID: Orbit E6 Target I Inst N OAPEL VOLCAN SeqNo 05 -

Title	Monitoring of Selected Volcanic Regions	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES Team NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 02/21/97 Week 8

Start	IEE+CDS	00001924:00:0	97-052/20:28:25.999	IEE+001/08:25:22.666
End	IEE+CDS	00001929:14:0	97-052/20:33:38.666	IEE+001/08:30:35.333
Duration		00000005:14:0	000/00:05:12.667	000/00:05:12.667

Top Label E6INVOLCAN05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.

No Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features: Kanehekili (-10 d. lat. +40 d. long.)
Pelee (-20 d. lat. -255 d. long.)
Loki (+12 d. lat. 310 d. long.)

Long Map (LM), Gain 4, Grating Start 0, LPU, ILMDK245, ILMDK10B

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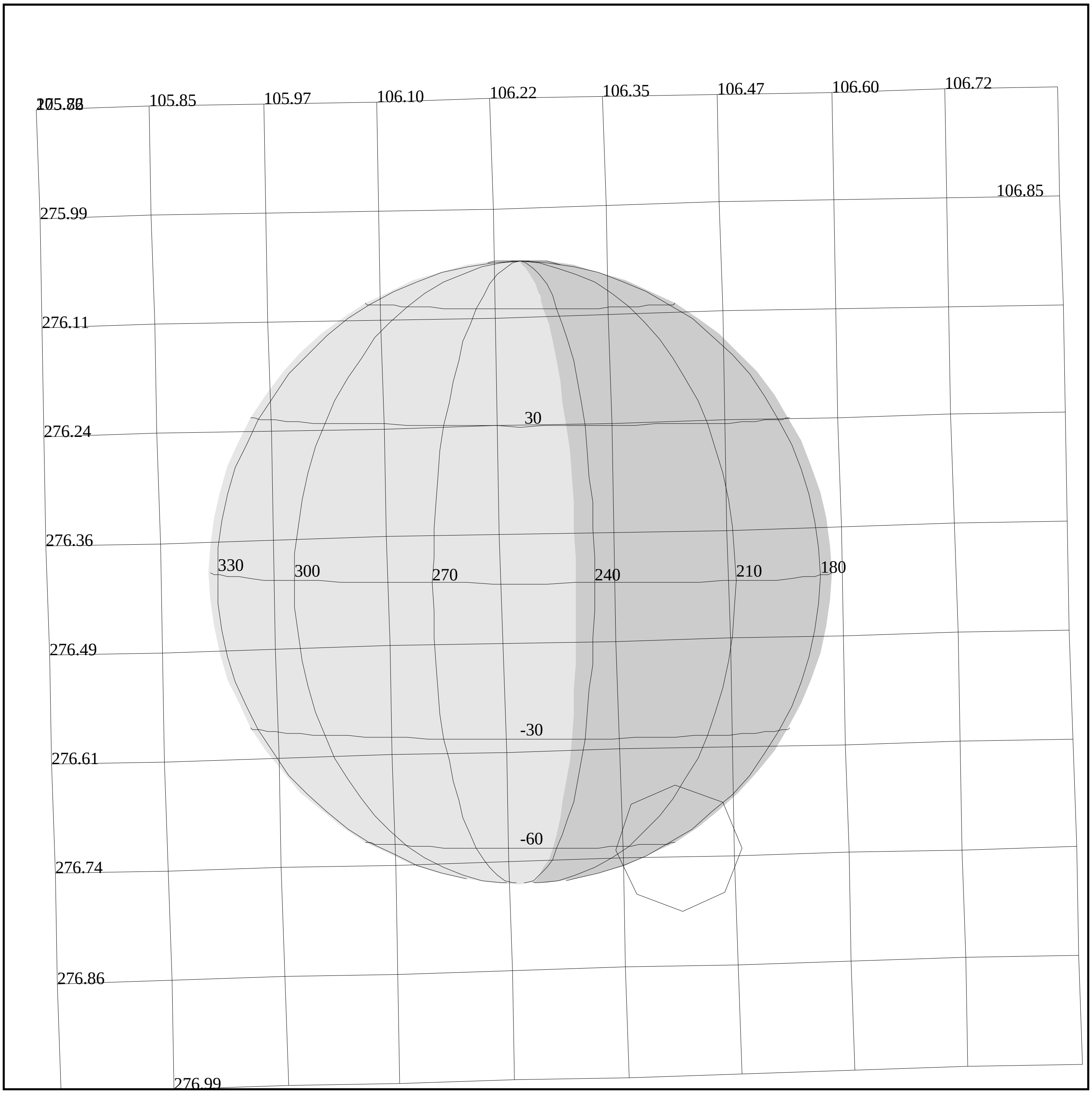

165HA:TT= 0 TMC= 1 C= -6.00 XC= -5.65 BS= 0/3754 TC= 3
A= 728 pD= 7280 SR=17.450 RA50= 17.67 DEC50= 6.88 cone=108.85 clock=276.18
117HA:#SB= 1 OR= 0.140 RR=12.000 BM=F RC= 1 BS= 0/3754
1:#s= 9 Cs= 7.65 XCs= 0.00 Cr= -8.90 XCr= 1.35 sD= 158 rD= 18

E6NNHEALTH07

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6GPGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING: :PPR 1

START:GEE 97-052/16:25:45.933 +CDS 404:00:0

BODY PLOT TIME:END-TIME D= 7280 S= 0.600

OBSERVATION:E6GPGLOBAL01

DESCRIP:GANYMEDE LOW RES DAY/DARK MAP

E6 Health 7	ACTIVITY ID:	E6NNHEALTH07-
	START TIME:	97-053/02:42:32.600

Activity ID: Orbit E6 Target N Inst N OAPEL HEALTH SeqNo 07 -

Title	E6 Health 7			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/22/97	Week	8

Start	JEE+CDS	00001770:00:0	97-053/02:42:32.600	JEE+001/05:49:40.000
End	JEE+CDS	00001776:00:0	97-053/02:48:36.600	JEE+001/05:55:44.000
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	E6NNHEALTH07-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Required to verify insturment operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Design Detail

No scan platform commanding. Scan platform is at the end of the slew of the previous observation: E6GPGLOBAL01

Long Map (LM), Gain 2, Grating Start 0, R/T, RT003

Galileo Activity Plan Form 01/21/97 14:44:53 rev 6/95

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NIMS Software Load — ACTIVITY ID: E6NIMSP2LD07- — START TIME: 97-053/02:48:36.600

Activity ID: Orbit E6 Target N Inst I OAPEL MSP2LD SeqNo 07 -

Title	NIMS Software Load			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 02/22/97 Week 8

Start	JEE+CDS	00001776:00:0	97-053/02:48:36.600	JEE+001/05:55:44.000
End	JEE+CDS	00001786:00:0	97-053/02:58:43.266	JEE+001/06:05:50.666
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label E6NIMSP2LD07-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

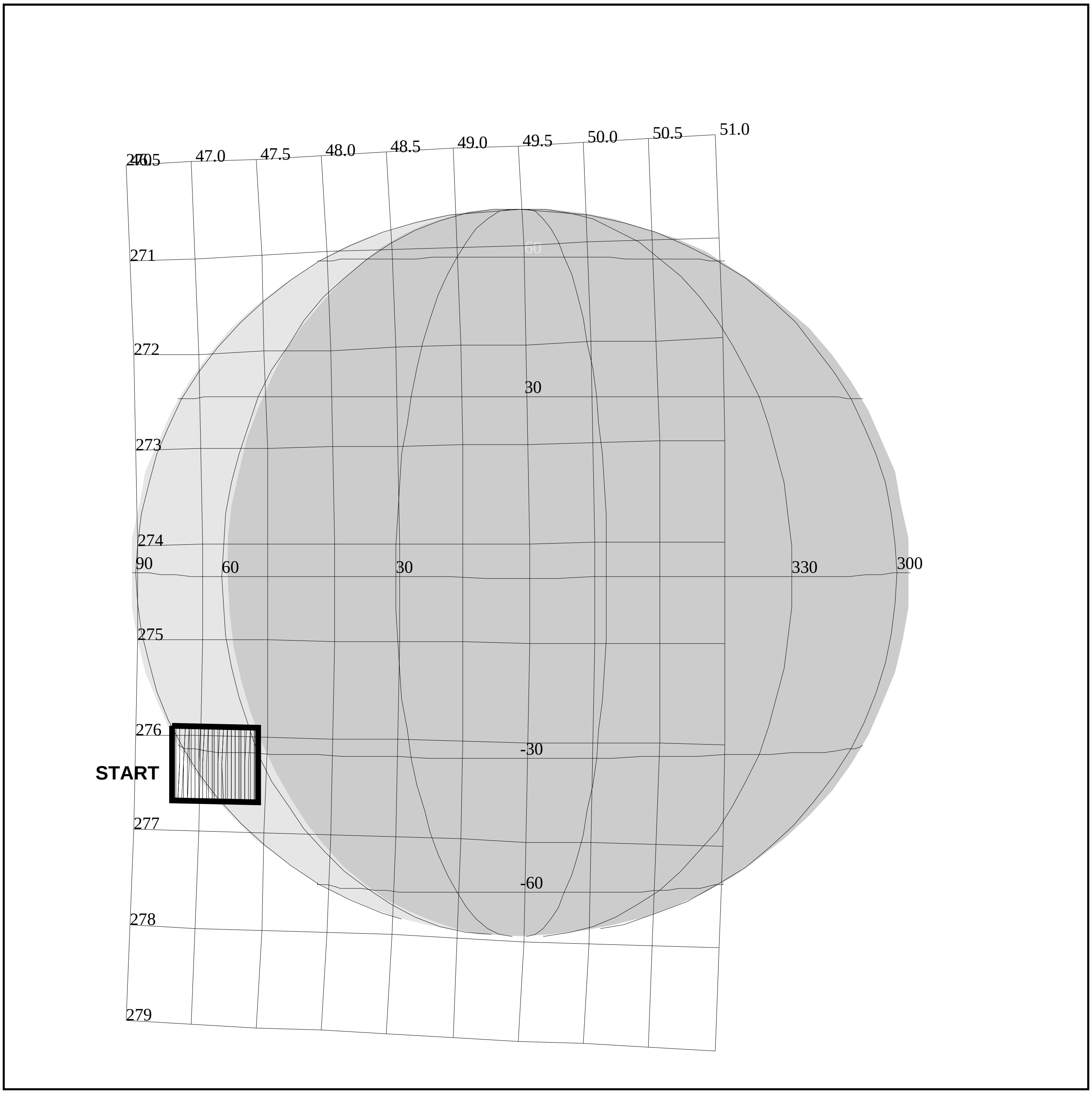
Reload NIMS software to prevent loss of science observations.
These loads are placed strategically to protect high priority science.

Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Galileo Activity Plan Form 01/21/97 14:44:53 rev 6/95



165EW:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/5249 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 80.17 DEC50= 23.07 cone= 46.79 clock=276.29
117EW:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5249
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA14001

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA14001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 +CDS 1792:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEA14001

DESCRIP:JUP_FEAT_TRK_140_DEG_PHASE_01

Jupiter Feature Track 140 deg phase pt 1	ACTIVITY ID: E6JNFEA14001-
	START TIME: 97-053/02:59:43.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA140 SeqNo 01 -

Title	Jupiter Feature Track 140 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/22/97	Week	8

Start	JEE+CDS	00001787:00:0	97-053/02:59:43.933	JEE+001/06:06:51.333
End	JEE+CDS	00001794:00:0	97-053/03:06:48.600	JEE+001/06:13:56.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6JNFEA14001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 140 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19D. This observation acquired with White Oval DE feature near the bright limb, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

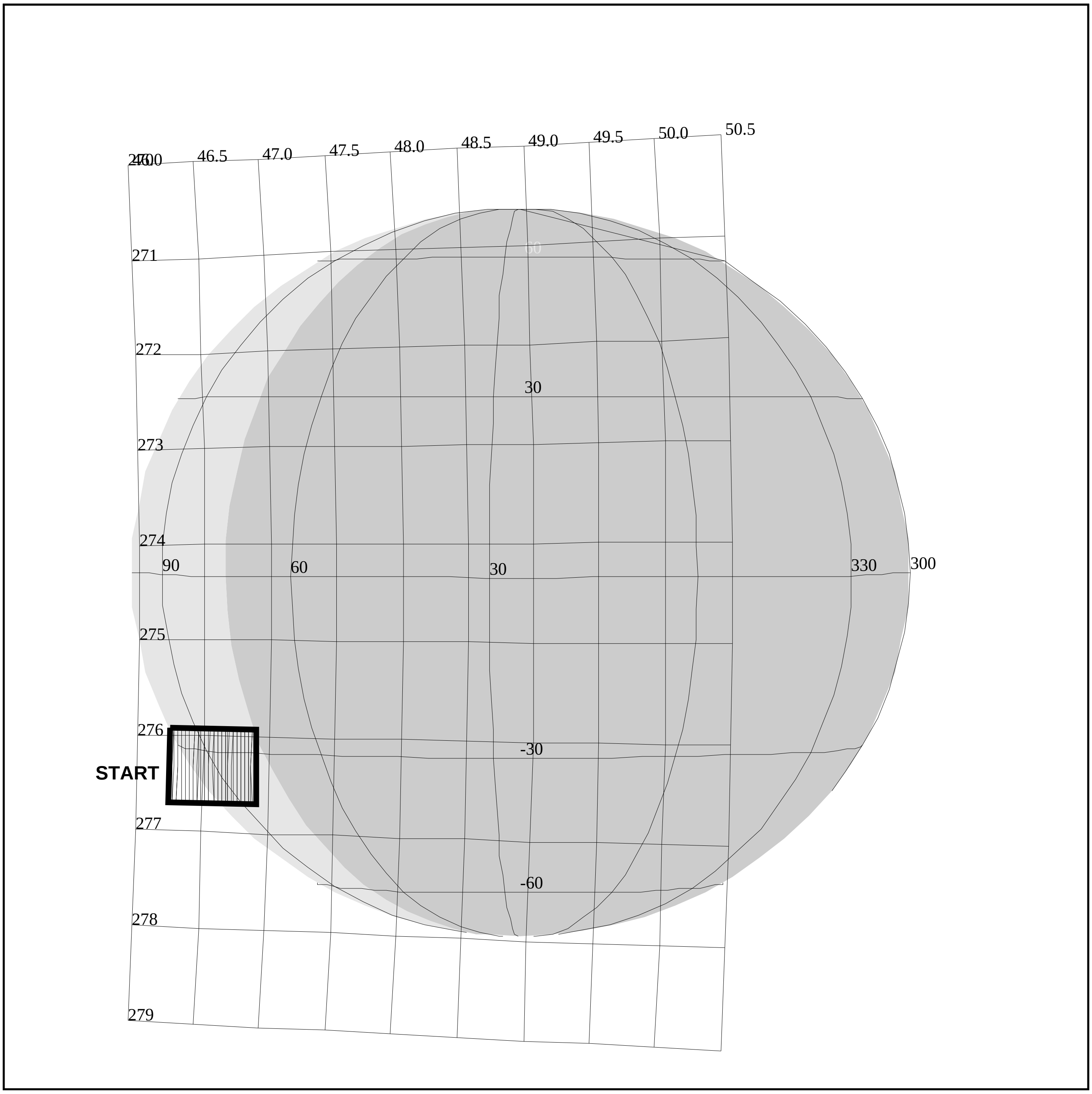
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetogrpahic). S/C distance about 1.37 million KM, NIMS IFOV (NIMSEL) = 685 KM; 1*1 mosaic covers 13700*13700 KM. About 100 seconds of scanning, accumulating 0.0921 mbtg in 19 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68B, JFT19D

Galileo Activity Plan Form 01/21/97 14:44:53 rev 6/95



165EX:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/9435 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 80.72 DEC50= 23.09 cone= 46.29 clock=276.31
117EX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9435
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA14002

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA14002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 +CDS 1815:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEA14002

DESCRIP:JUP_FEAT_TRK_140_DEG_PHASE_02

Jupiter Feature Track 140 deg phase pt 2 ACTIVITY ID: E6JNFEA14002-
START TIME: 97-053/03:22:59.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA140 SeqNo 02 -

Title	Jupiter Feature Track 140 deg phase pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/22/97	Week	8

Start	JEE+CDS	00001810:00:0	97-053/03:22:59.266	JEE+001/06:30:06.666
End	JEE+CDS	00001817:00:0	97-053/03:30:03.933	JEE+001/06:37:11.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6JNFEA14002-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 140 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19D. This observation acquired with White Ovals BC and DE feature near the bright limb airmass, assuming White Oval DE feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (system III).

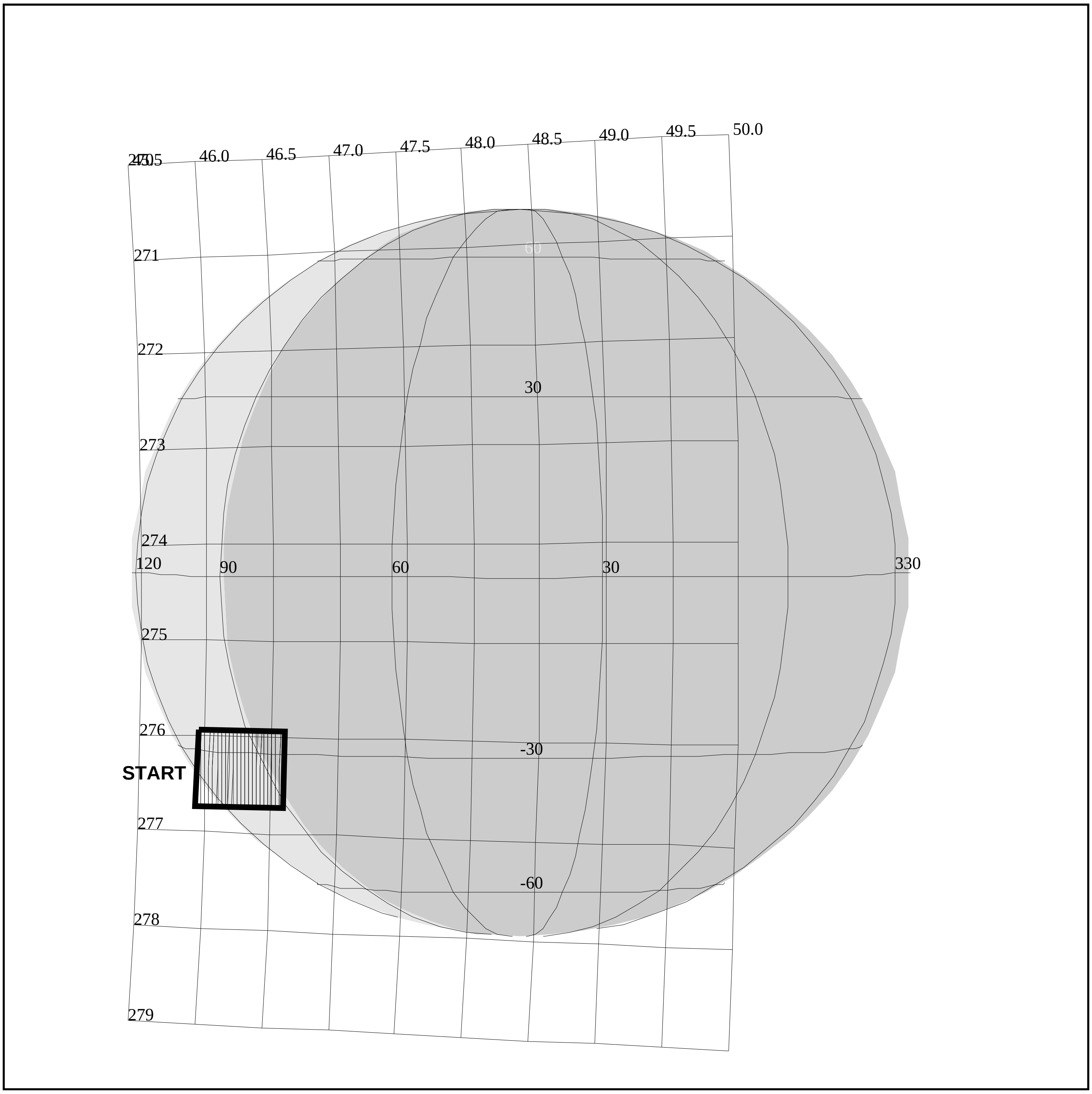
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.37 million KM, NIMS IFOV (NIMSEL) = 685 KM; 1*1 mosaic covers 13700*13700 KM. About 100 seconds of scanning, accumulating 0.0921 mbtg in 19 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68B, JFT19D

Galileo Activity Plan Form 01/21/97 14:44:53 rev 6/95



165EY:TT= 0 TMC= 1 C= -8.00 XC= 0.00 BS= 0/4349 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 81.11 DEC50= 23.10 cone= 45.93 clock=276.33
117EY:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4349
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

E6JNFEA14003

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA14003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-051/20:52:52.600 +CDS 1842:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:E6JNFEA14003

DESCRIP:JUP_FEAT_TRK_140_DEG_PHASE_03

Jupiter Feature Track 140 deg phase pt 3	ACTIVITY ID: E6JNFEA14003-
	START TIME: 97-053/03:50:17.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA140 SeqNo 03 -

Title	Jupiter Feature Track 140 deg phase pt 3	Instrument			NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/22/97	Week	8

Start	JEE+CDS	00001837:00:0	97-053/03:50:17.266	JEE+001/06:57:24.666
End	JEE+CDS	00001844:00:0	97-053/03:57:21.933	JEE+001/07:04:29.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	E6JNFEA14003-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 140 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19D. This observation acquired with White Oval DE near the terminator and White Oval BC near minimum airmass, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

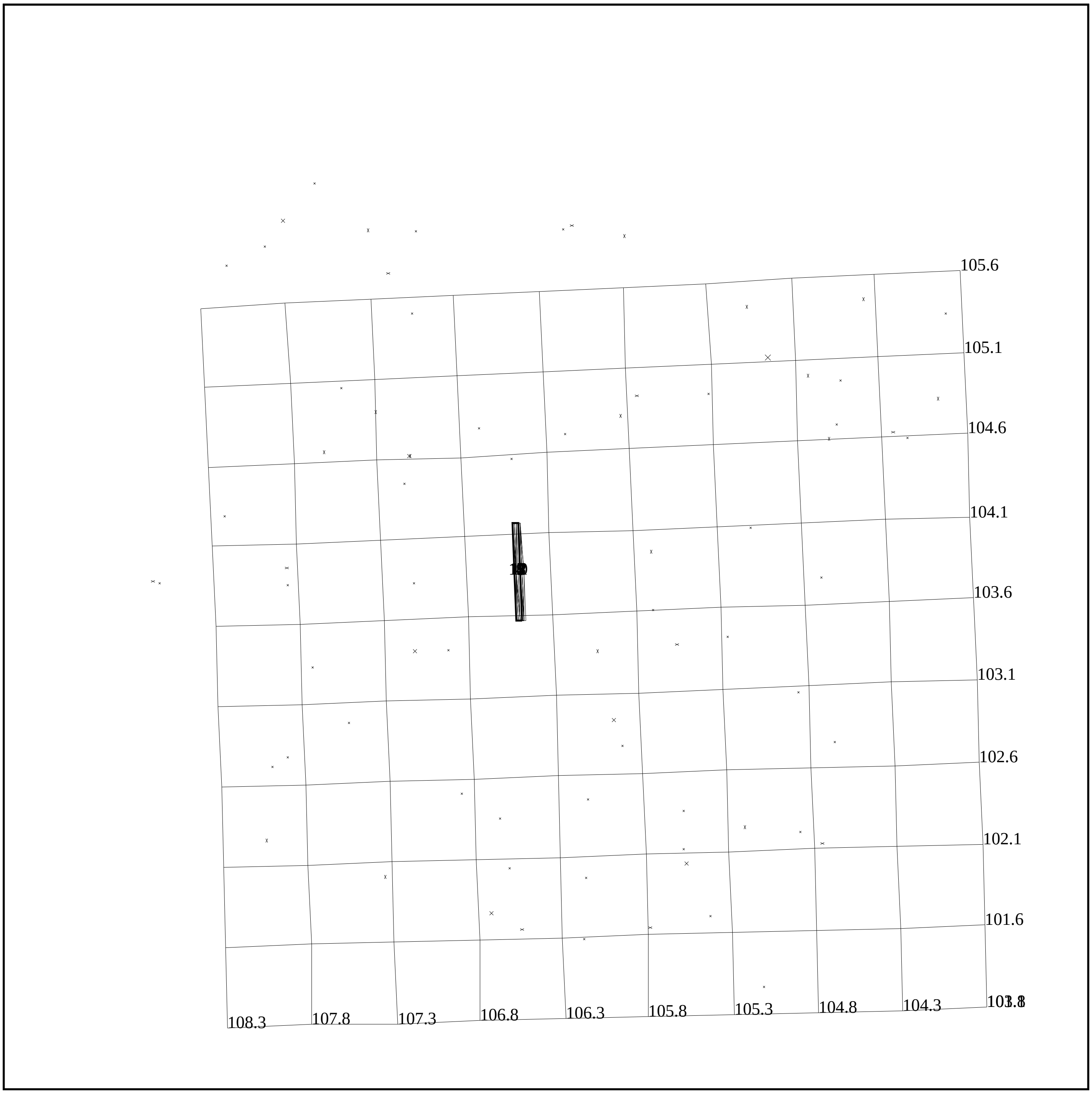
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.37 million KM, NIMS IFOV (NIMSEL) = 685 KM; 1*1 mosaic covers 13700*13700 KM. About 100 seconds of scanning, accumulating 0.0921 mbtg in 19 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68B, JFT19D

Galileo Activity Plan Form   01/21/97 14:44:53   rev 6/95



165FA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1719 TC=15(-11.5 234.0)
A= 728 pD= 0 SR=17.450 RA50=234.00 DEC50=-11.50 cone=106.50 clock=103.82

E6HNDARK__04

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-051/17:03:21.333 +CDS 2604:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:E6HNDARK__04 **DESCRIP:DARK OBSERVATION**

Dark Observation		ACTIVITY ID:	E6HNDARK__04-
		START TIME:	97-053/12:51:13.999

Activity ID: Orbit E6 Target H Inst N OAPEL DARK   SeqNo 04 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/22/97	Week 8

Start	EEE+CDS	00002599:00:0	97-053/12:51:13.999	EEE+001/19:47:52.666
End	EEE+CDS	00002605:15:0	97-053/12:57:27.999	EEE+001/19:54:06.666
Duration		00000006:15:0	000/00:06:14.000	000/00:06:14.000

Top Label	E6HNDARK__04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Obtain 1 rim of dark sky data per day for each day of NIMS observations within the E6 orbit for purposes of calibration.

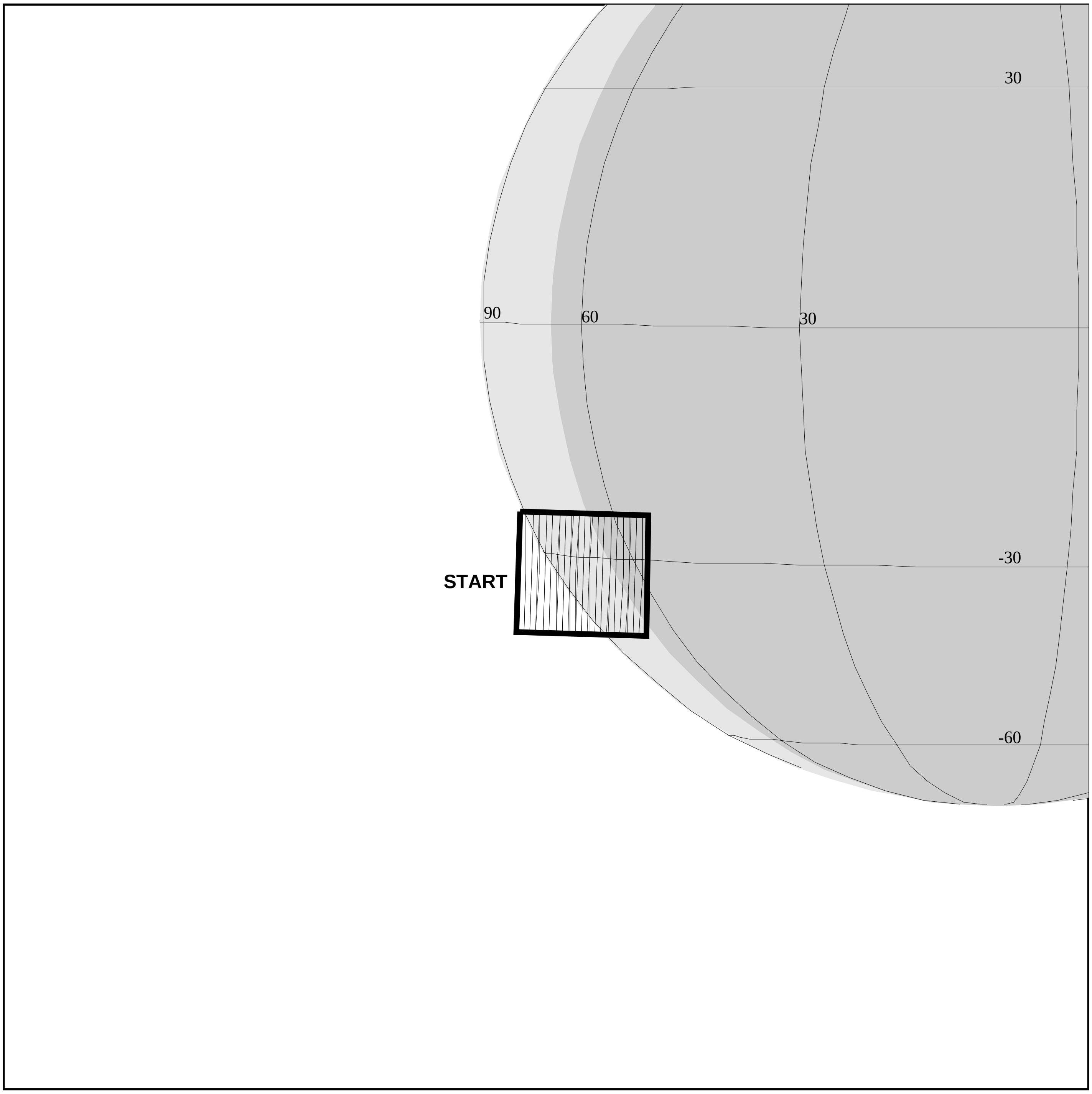
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in short-map mode.

Long Map (LM), Gain 2, Grating Start 0, LPU, DRK34, DRK32

Galileo Activity Plan Form   01/21/97 14:44:54   rev 6/95



165FB:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/4631 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 91.82 DEC50= 23.49 cone= 36.09 clock=276.31
117FB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4631
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 282 rD= 2

E6JNFEA15001

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA15001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 +CDS 2393:00:0

OBSERVATION:E6JNFEA15001

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000

DESCRIP:JUP FEATURE TRACK 150 DEG PHASE

Jupiter Feature Track 150 deg phase pt 1 ACTIVITY ID: E6JNFEA15001-
START TIME: 97-053/13:07:24.600

Activity ID: Orbit E6 Target J Inst N OAPEL FEA150 SeqNo 01 -

Title	Jupiter Feature Track 150 deg phase pt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	02/22/97	Week	8

Start	JEE+CDS	00002388:00:0	97-053/13:07:24.600	JEE+001/16:14:32.000
End	JEE+CDS	00002395:00:0	97-053/13:14:29.266	JEE+001/16:21:36.666
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label E6JNFEA15001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the first observation obtained on a rotation with phase angle approximately 150 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the bright limb, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval DE feature near 91.5 degrees West longitude (planetographic), 33 degrees South latitude. S/C distance about 1.67 million KM, NIMS IFOV (NIMSEL) = 835 KM; 1*1 mosaic covers 16700*16700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68A, JFT20A

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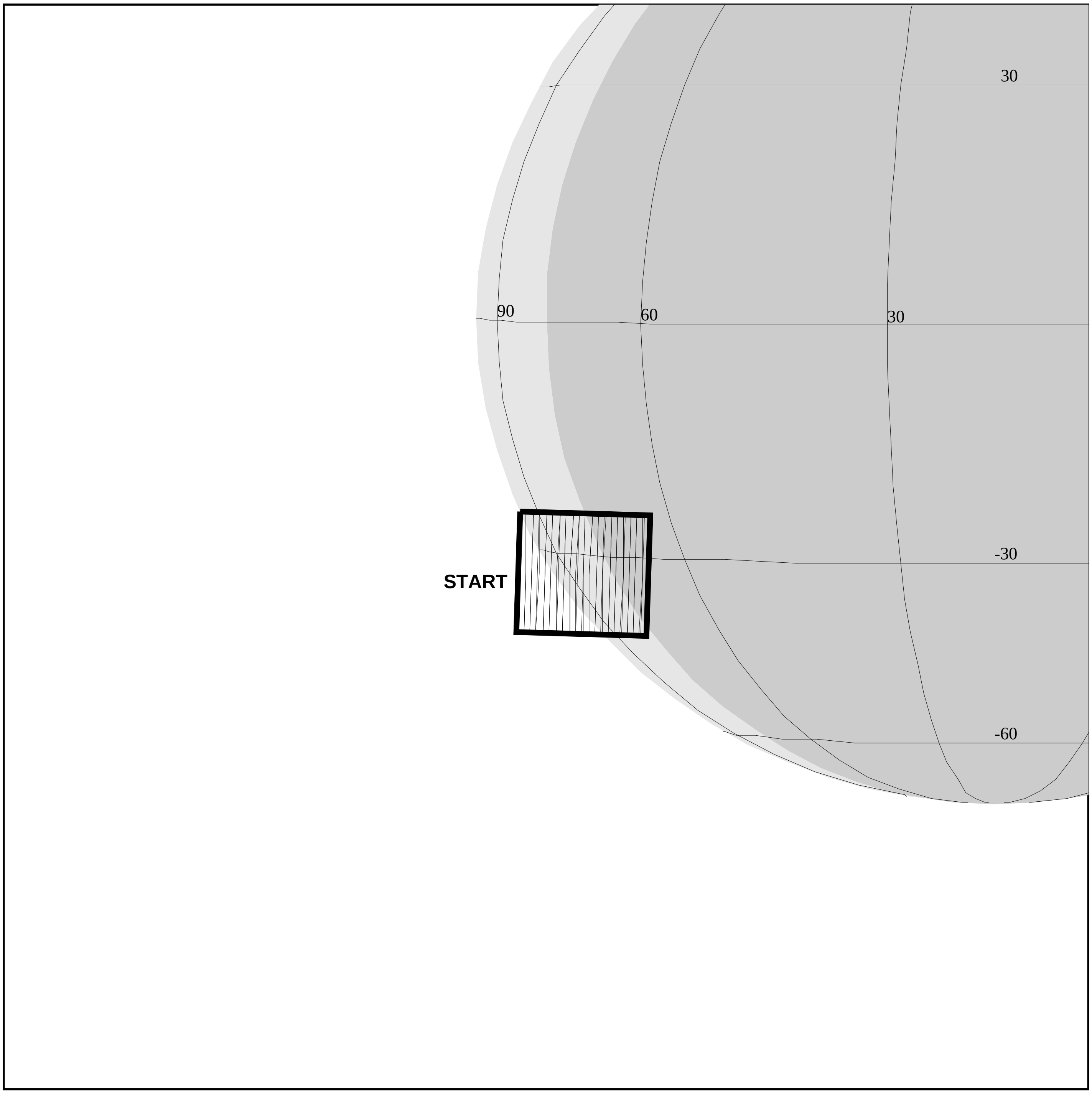


165FC:TT= 0 TMC= 1 C= -3.80 XC= 0.00 BS= 0/7725 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 92.07 DEC50= 23.48 cone= 35.86 clock=276.33
117FC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7725
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 282 rD= 2

E6JNFEA15002

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA15002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 +CDS 2410:00:0

OBSERVATION:E6JNFEA15002

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000

DESCRIP:JUP FEATURE TRACK 150 DEG PHASE

Jupiter Feature Track 150 deg phase pt 2 **ACTIVITY ID: E6JNFEA15002-**
START TIME: 97-053/13:24:35.933

Activity ID: Orbit E6 Target J Inst N OAPEL FEA150 SeqNo 02 -

Title	Jupiter Feature Track 150 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID Calendar Date 02/22/97 Week 8

Start	JEE+CDS	00002405:00:0	97-053/13:24:35.933	JEE+001/16:31:43.333
End	JEE+CDS	00002412:00:0	97-053/13:31:40.600	JEE+001/16:38:48.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6JNFEA15002-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the second observation obtained on a rotation with phase angle approximately 150 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near minimum airmass and White Oval BC on the bright limb, assuming feature coordinates 33 degrees south latitude (planetographic) and 91.5 degrees west longitude (System III).

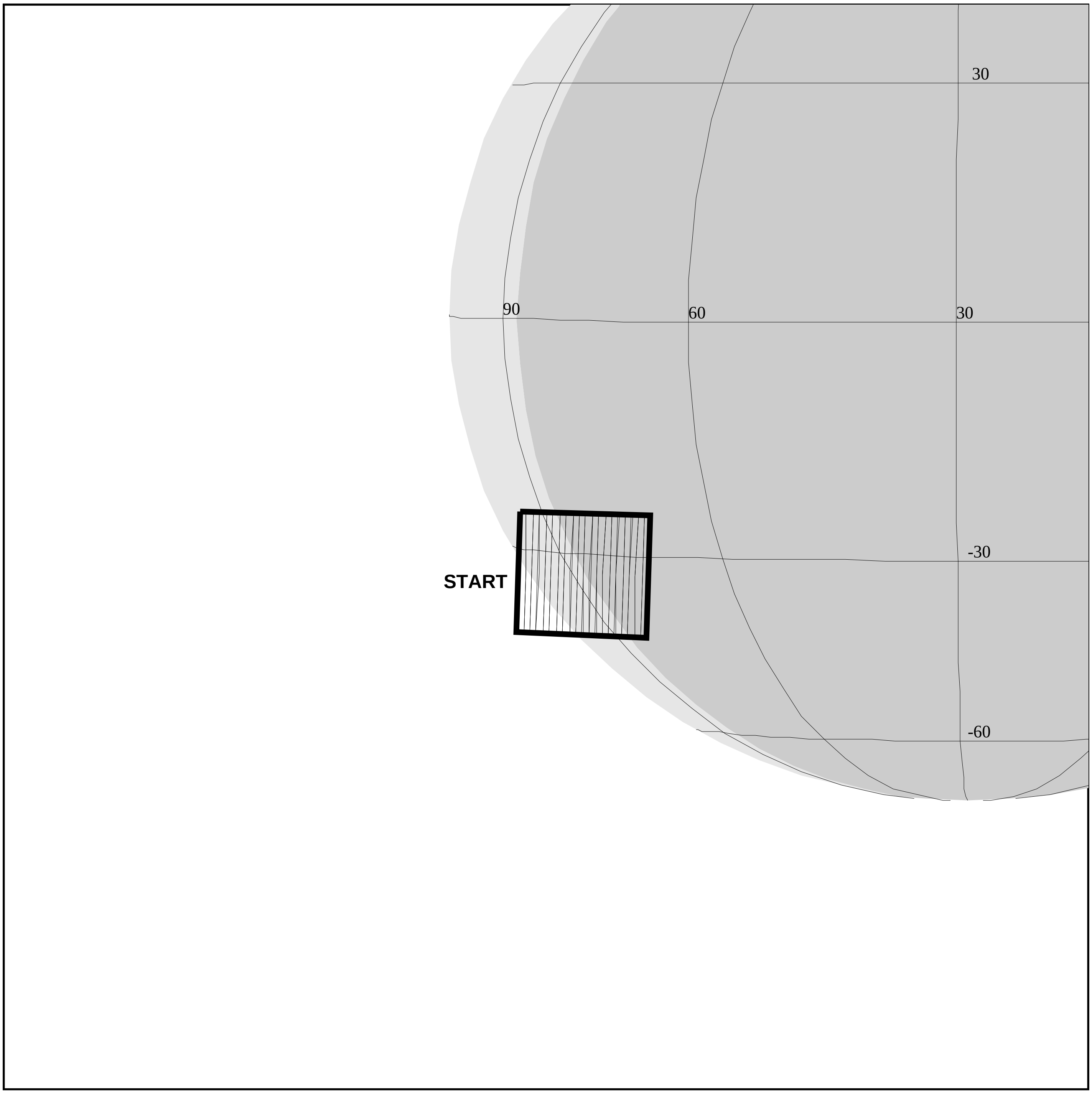
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Ovals BC and DE near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.67 million KM, NIMS IFOV (NIMSEL) = 835 KM; 1*1 mosaic covers 16700*16700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68A, JFT20A

Galileo Activity Plan Form 01/21/97 14:44:54 rev 6/95



165FD:TT= 0 TMC= 1 C= -3.80 XC= 0.00 BS= 0/0819 TC= 1(-33 91.5)
A= 728 pD= 0 SR=17.450 RA50= 92.20 DEC50= 23.47 cone= 35.74 clock=276.34
117FD:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0819
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 282 rD= 2

E6JNFEA15003

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6JNFEA15003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

START:JEE 97-051/20:52:52.600 +CDS 2427:00:0

OBSERVATION:E6JNFEA15003

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000

DESCRIP:JUP FEATURE TRACK 150 DEG PHASE

Jupiter Feature Track 150 deg phase pt 3 ACTIVITY ID: E6JNFEA15003-
START TIME: 97-053/13:41:47.266

Activity ID: Orbit E6 Target J Inst N OAPEL FEA150 SeqNo 03 -

Title	Jupiter Feature Track 150 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID Calendar Date 02/22/97 Week 8

Start	JEE+CDS 00002422:00:0	97-053/13:41:47.266	JEE+001/16:48:54.666
End	JEE+CDS 00002429:00:0	97-053/13:48:51.933	JEE+001/16:55:59.333
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label E6JNFEA15003-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 23 OAPELs constituting the feature tracks for this feature campaign. This is the third observation obtained on a rotation with phase angle approximately 150 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with White Oval DE feature near the terminator, assuming feature coordinates 33 degrees south latitude and 91.5 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on White Oval feature DE near 91.5 degrees West longitude, 33 degrees South latitude (planetographic). S/C distance about 1.67 million KM, NIMS IFOV (NIMSEL) = 835 KM; 1*1 mosaic covers 16700*16700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. 4 rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 0, LPU, JFT68A, JFT20A

Galileo Activity Plan Form 01/21/97 14:44:54 rev 6/95

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```
NIMS Real-Time PCT Calibration          ACTIVITY ID:   E6NNPCTCAL01-
                                         START TIME:   97-053/18:05:41.333
```

```
Activity ID: Orbit E6  Target N  Inst N  OAPEL PCTCAL  SeqNo 01 -

Title        NIMS Real-Time PCT Calibration         Instrument      NIMS
Requestor    NIMS-SWG/M. SEGURA        Team   NIMS  Working Group   SWG
```

```
Time System  CDS       Load ID         Calendar Date  02/22/97  Week   8

Start        EEE+CDS 00002910:00:0 97-053/18:05:41.333   EEE+002/01:02:20.000
End          EEE+CDS 00003088:00:0 97-053/21:05:39.999   EEE+002/04:02:18.666
Duration             00000178:00:0    000/02:59:58.666       000/03:00:01..33
```

```
Top Label    E6NNPCTCAL01
Bottom Label

Plot Key     NIMS      Type            SCI
CDS Bytes        300   Report Options  BOTH         Scan Platform      Yes
CDS Source   OAP       Spin State      ALL          DMS                Yes
```

Observation Objective

This observation is a NIMS photometric calibration using the PCT target. The data will be used to calibrate the NIMS visible detectors. The calibration data will be recorded. This calibration takes place near the emd of the E6 Encounter phase. At this time the sun angle is about 8 degrees, not an ideal sun angle for a PCT calibration.
A NIMS Optical Calibration is also performed.

Data Returned

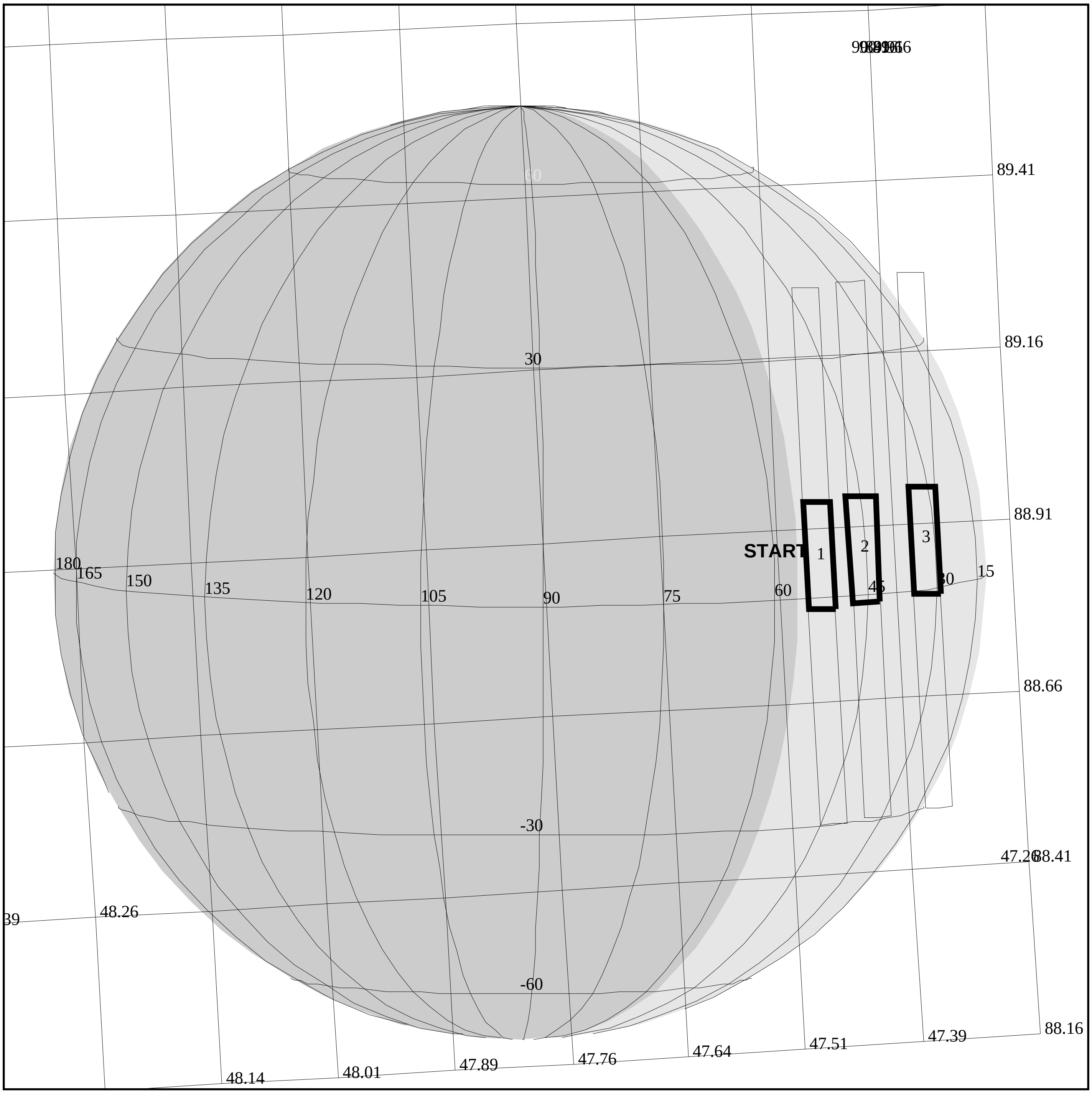
Design Detail

```
The dark cone,clock angles must be checked using Pointer.
1)  Turn off PCT heaters 6 hours before calibration.
2)  Assume AACS transition to AllSpin, cone at 153 degrees.
3)  Set NIMS to Long Map Mode, Gain State 4, ETB = PCT252,
    The OPCAL diode will be turned on before step 6.
4)  Slew to Dark (cone=110.00, clock= 90.00), Record 3 Rims in LPU
5)  Slew to PCT  (cone= 54.88, clock=244.07), Record 3 Rims in LPU
6)  Slew to Dark (cone=110.00, clock= 90.00), Record 3 Rims in LPU
7)  Slew to Safe (cone=153.00, clock=  0.00)
```

Only the PCT data were returned, not the Dark or OPCAL.

Long Map (LM), Gain 1, Grating Start 0, LPU, PCT252, PCT228

```
Galileo Activity Plan Form                     01/21/97  14:44:54   rev 6/95
```



165FL:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/9453 TC= 3
A= 546 pD= 0 SR=17.450 RA50=173.53 DEC50= -2.35 cone= 47.47 clock= 88.87
117FL:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/9453
1:#s= 1 Cs= -7.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 2

E6CNCALLRT01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6CNCALLRT01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS: **THINNING:NIM 7**

START:CEE 97-053/22:54:51.866 -CDS 55:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:E6CNCALLRT01 **DESCRIP:CALLISTO_REAL_TIME_OBS**

Callisto Real-Time Observation		ACTIVITY ID:	E6CNCALLRT01-
		START TIME:	97-053/21:55:12.533

Activity ID: Orbit E6 Target C Inst N OAPEL CALLRT SeqNo 01 -

Title	Callisto Real-Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/22/97	Week	8

Start	CEE-CDS	00000059:00:0	97-053/21:55:12.533	CEE-000/00:59:39.333
End	CEE-CDS	00000052:00:0	97-053/22:02:17.200	CEE-000/00:52:34.666
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	E6CNCALLRT01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Data Returned

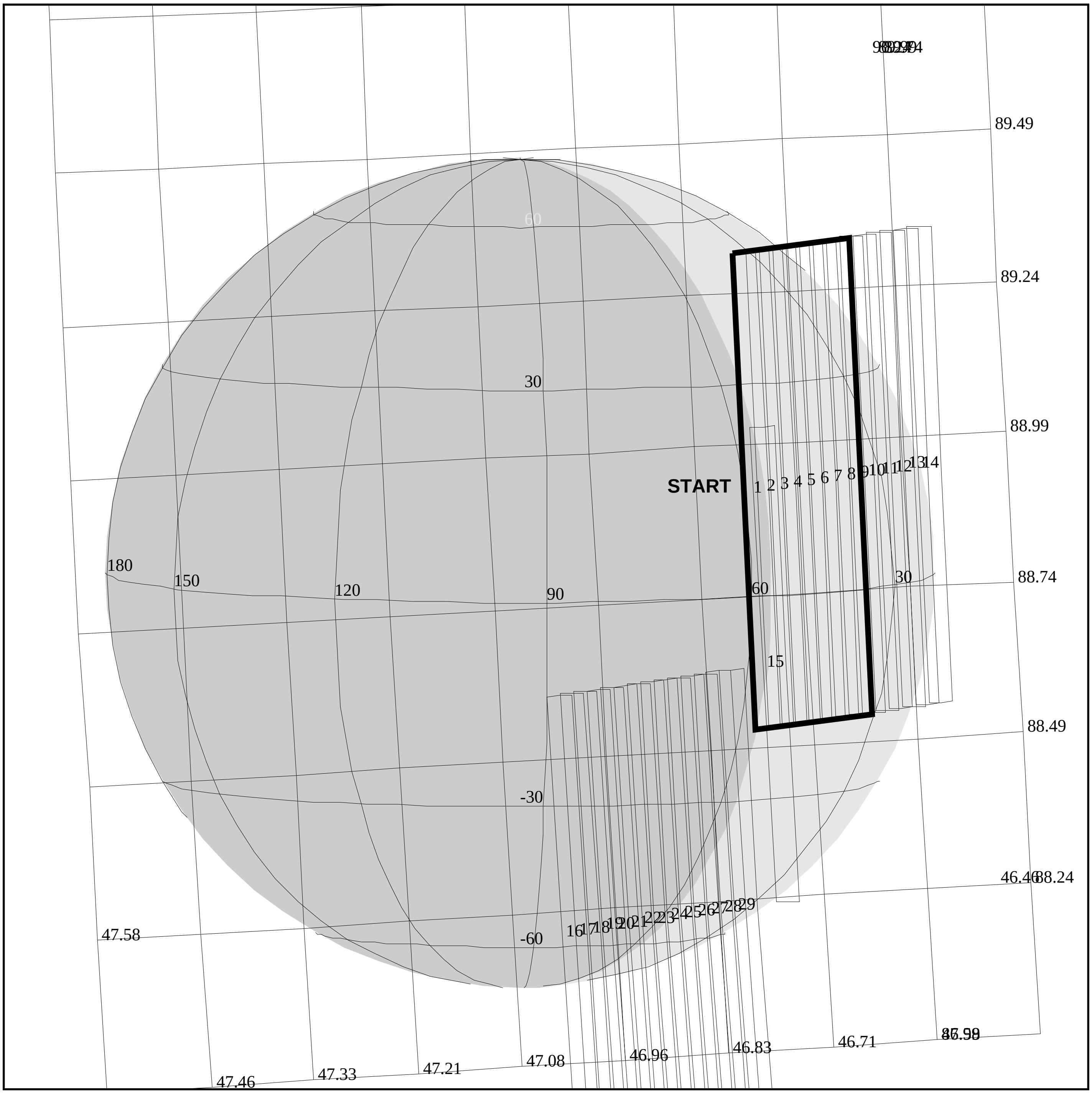
Design Detail

4 408 Real-Time spectra near Callisto’s limb on crescent Callisto.

Mirror Blocked (1B,1B) (11011,11011)
3 Rims Returned

Long Map (LM), Gain 4, Grating Start 0, R/T, CLM408

Galileo Activity Plan Form   01/21/97 14:44:54   rev 6/95



165FE:TT= 0 TMC= 1 C= -0.50 XC= 4.50 BS= 0/1091 TC= 3
A= 728 pD= 0 SR=17.450 RA50=173.23 DEC50= -1.95 cone= 47.02 clock= 89.15
117FE:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/1091
1:#s= 2 Cs= -9.60 XCs= 0.00 Cr= 8.00 XCr= -9.50 sD= 728 rD= 30

E6CNGLOBAL01

TARGET G3.0 fredg: 1/23/1997 22:16:16

FILE:P.E6CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-961231-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:CEE 97-053/22:54:51.866 -CDS 46:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

OBSERVATION:E6CNGLOBAL01

DESCRIP:CALLISTO GLOBAL OBSERVATION

Callisto Global Observation		ACTIVITY ID:	E6CNGLOBAL01-
		START TIME:	97-053/22:03:17.866

Activity ID: Orbit E6 Target C Inst N OAPEL GLOBAL SeqNo 01 -

Title	Callisto Global Observation			Instrument
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 02/22/97	Week 8

Start	CEE-CDS 00000051:00:0	97-053/22:03:17.866	CEE-000/00:51:34.000
End	CEE-CDS 00000037:00:0	97-053/22:17:27.200	CEE-000/00:37:24.666
Duration	00000014:00:0	000/00:14:09.334	000/00:14:09.334

Top Label E6CNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Obtain the best combined spatial and spectral resolution of Callisto's surface. Investigate mineralogy and determine the distribution of compositional units. This data set will be used for collaborative and comparative studies with the current IUE Callisto data set. It will also aid in determining which set of NIMS wavelengths will be returned in future orbits.

Data Returned

Design Detail

Continous slew mosaic, full disk at Callisto closest approach. Cover all lit longitudes and latitudes. The observation will contain 2 swaths with 20% overlap between scans. The instrument mode is LM, gain state is 4, spectral resolution is 204 wavelengths of return. The spatial resolution is 140 km/nimsel and the phase angle is 130.45 degrees.

Only first 2 Rims of data returned.

Long Map (LM), Gain 4, Grating Start 0, MPW, CLM442, CLM270

Galileo Activity Plan Form   01/21/97 14:44:54 rev 6/95

NIMS Chopper Off	ACTIVITY ID: E6NCHOPOFF01- START TIME: 97-053/22:26:33.200

Activity ID: Orbit E6 Target N Inst C OAPEL HOPOFF SeqNo 01 -

Title	NIMS Chopper Off			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	02/22/97	Week	8

Start	CEE-CDS	00000028:00:0	97-053/22:26:33.200	CEE-000/00:28:18.666
End	CEE-CDS	00000018:00:0	97-053/22:36:39.866	CEE-000/00:18:12.000
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label E6NCHOPOFF01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Turn off the NIMS Chopper to extend the Chopper’s lifetime.

Design Detail

Use NIMSINIT with the following commands:

```
37IST,1,0,0,OFF,0,0,0;   Chopper 63 Hz
37IST,1,1,0,OFF,0,0,0;   Chopper Off
```

Galileo Activity Plan Form 01/21/97 14:44:54 rev 6/95

NIMS RT RCT Calibration	ACTIVITY ID: E6NNRCTRLT01-
	START TIME: 97-055/15:52:52.400

Activity ID: Orbit E6 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	NIMS RT RCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 02/24/97 Week 8

Start	RTA-CDS 00000022:00:0	97-055/15:52:52.400	RTA-000/00:22:14.666
End	RTA+CDS 00000765:00:0	97-056/05:08:37.066	RTA+000/12:53:30.000
Duration	00000787:00:0	000/13:15:44.666	000/13:15:44.666

Top Label E6NNRCTRLT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	200	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target. the data will be used to calibrate the NIMS thermal detectors. The calibration data will be returned using Real-time Telemetry. This calibration will take place after the +3 day OTM

Data Returned

Design Detail

This is a Library Sequence.

The Dark cone angle must be selected using Pointer.

1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone = 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, RCT252

NIMS RT RCT Calibration	ACTIVITY ID: E6NNRCTRLT02- START TIME: 97-074/01:38:07.467

Activity ID: Orbit E6 Target N Inst N OAPEL RCTRLT SeqNo 02 -

Title	NIMS RT RCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 03/15/97 Week 11

Start	RTB-CDS	00000022:00:0	97-074/01:38:07.467	RTB-000/00:22:14.666
End	RTB+CDS	00000765:00:0	97-074/14:53:52.133	RTB+000/12:53:30.000
Duration		00000787:00:0	000/13:15:44.666	000/13:15:44.666

Top Label E6NNRCTRLT02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
the data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real-time Telemetry.
This calibration will take place after the +3 day OTM

Data Returned

Design Detail

This is a Library Sequence.

The Dark cone angle must be selected using Pointer.

1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone = 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, RCT252

Galileo Activity Plan Form 01/21/97 14:44:55 rev 6/95 f

E6 NIMS DET3 CHK	ACTIVITY ID: E6NNDET3CHK1- START TIME: 97-078/16:48:00.000

Activity ID: Orbit E6 Target N Inst N OAPEL DET3CHK SeqNo 01 -

Title	E6 NIMS DET 3 CHK			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 03/27/97 Week 13

Start	97-078/16:48:00.000
End	97-078/16:59:00.000
Duration	000/00:11:00.000

Top Label E6NNDET3CHK1
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To verify that Detector 3 is really dead.

Design Detail

Long Map
Gain State 2
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 2, 3 and 4 only.
NIMS is selected in Real Time for 2 Rims.
Three Long Map grating cycles returned.

Long Map (LM), Gain 2, Grating Start 0, R/T, DET234

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E6 NIMS OPCAL

ACTIVITY ID: E6NNOPCAL_01-
START TIME: 97-086/00:07:01.999

Activity ID: Orbit E6 Target N Inst N OAPEL OPCAL_ SeqNo 01 -

Title	E6 NIMS OPCAL			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 03/27/97 Week 13

Start	EEE+CDS 00048841:00:0	97-086/00:07:01.999	EEE+034/07:03:40.666
End	EEE+CDS 00048860:00:0	97-086/00:26:14.666	EEE+034/07:22:53.333
Duration	00000019:00:0	000/00:19:12.667	000/00:19:12.667

Top Label E6NNOPCAL_01
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To perform an Optical Calibration of the NIMS instrument at the end of the E6 orbit just before the start of the G7 Encounter.

Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 1 and 2 only.
NIMS is selected in Real Time for 3 Rims.
Three Long Map grating cycles returned.
OPCAL lamp is turned at Rims 1 and 3.
Rims 2 is Dark.

Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL120

Galileo Activity Plan Form 01/21/97 14:44:55 rev 6/95