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.

The Pointer plots and OAPEL forms in this chapter have been updated to report the actual data returned.

The Pointer plots have the spatial extent of the actual data returned outlined with a thick line. When no data were returned for a particular observation, its Pointer plot has a single slash across the plot with the text "NO DATA RETURNED" printed in the upper left corner of the plot.

The text of the OAPEL forms have been modified to reflect the actual NIMS instrument parameters for playback. An extra line containing one or some of the following statements has been added to the Observation Objective section of the OAPEL form to report the data retun status:

```
"Data Returned"      == Data from this observation returned
"No Data Returned"   == NO Data from this observation returned
"Processor Halted"   == The NIMS Processor had halted at this time.
```

More information regarding NIMS data return can be found in Chapter 7 of this guide.

NIMS Chopper On	ACTIVITY ID: G7NNCHOPON01- START TIME: 97-092/12:12:55.067

Activity ID: Orbit G7 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS Chopper On			Instrument	NIMS
Requestor	NIMS-SWG/J.HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/02/97	Week	14

Start	JEE-CDS	00002780:00:0	97-092/12:12:55.067	JEE-001/22:50:53.333
End	JEE-CDS	00002774:00:0	97-092/12:18:59.067	JEE-001/22:44:49.333
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G7NNCHOPON01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

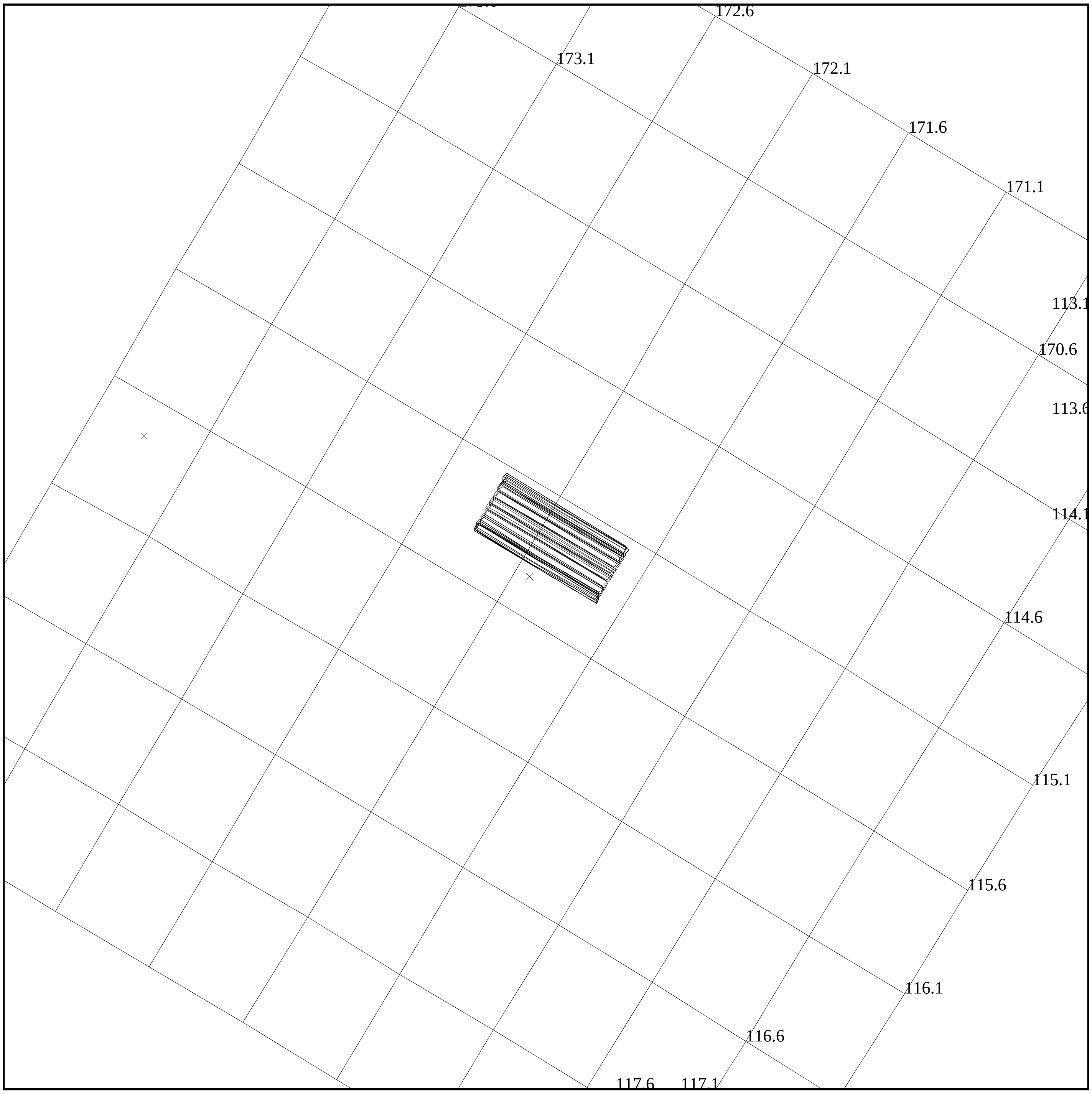
Configure the NIMS instrument for orbit G7 data taking, i.e. turn the NIMS Chopper on to REFERENCE. This orbit includes observations of Jupiter, Io, Callisto, Europa, and Ganymede.

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 Reference
```

Galileo Activity Plan Form 03/17/97 17:37:30 rev 6/95



165DB:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/5261 TC=14(Vega)
A= 728 pD= 0 SR=17.450 RA50=278.69 DEC50= 38.85 cone=115.17 clock=172.05
117DB:#SB= 1 OR= 0.750 RR= 2.000 BM=F RC= 1 BS= 0/5261
1:#s= 3 Cs= 4.00 XCs= 0.00 Cr= -4.00 XCr= 0.15 sD= 26 rD= 16

G7NNSTRCAL01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7NNSTRCAL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JEE 97-094/11:03:48.400 -CDS 2766:00:0

OBSERVATION:G7NNSTRCAL01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000

DESCRIP:NIMS Star Calibration

NIMS STAR CALIBRATION ACTIVITY ID: G7NNSTRCAL01-
START TIME: 97-092/12:22:01.067

Activity ID: Orbit G7 Target N Inst N OAPEL STRCAL SeqNo 01 -

Title	NIMS STAR CALIBRATION			Instrument	NIMS
Requestor	NIMS-AWG/JHUI	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/02/97 Week 14

Start	JEE-CDS	00002771:00:0	97-092/12:22:01.067	JEE-001/22:41:47.333
End	JEE-CDS	00002763:00:0	97-092/12:30:06.400	JEE-001/22:33:42.000
Duration		00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label G7NNSTRCAL01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS instrument pointing calibration using a star as a calbrating target. The star is Vega.

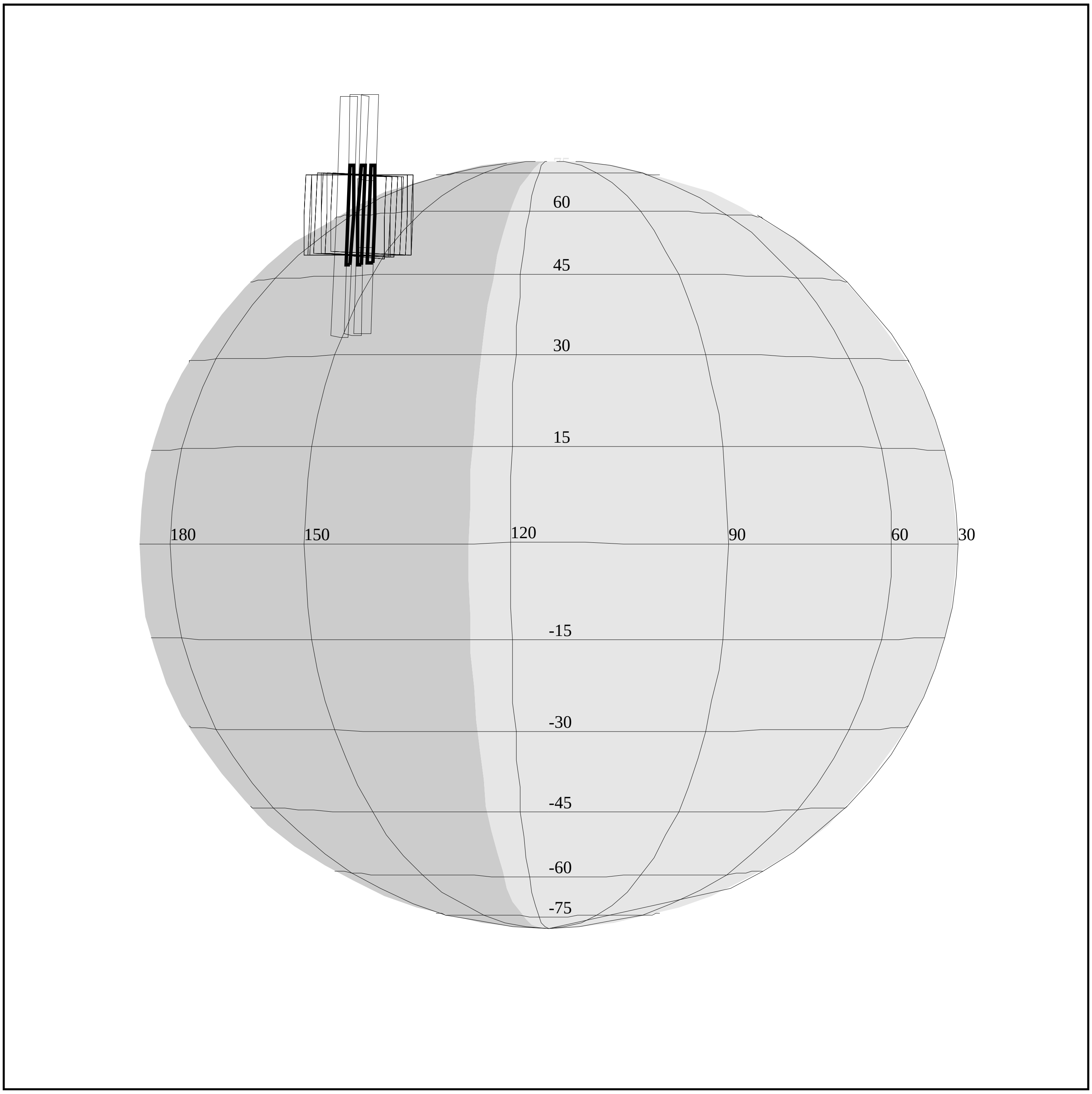
Data Returned

Design Detail

NIMS in Fix Map (XM) mode, Gain State=4. Scan across 4 mrad with 3 strips, 9.85mrad overlap (i.e. move down only 0.15 mrad per next strip) in the strip slew rate is 0.75 mrad/sec. Center the star in the middle strip.
Record = MPW. Bring back 17 wavelengths.

Fixed Map (XM), Gain 4, Grating Start 0, MPW, G7SXM17, G7SXM17

Galileo Activity Plan Form 03/17/97 17:37:30 rev 6/95



165AC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2763 TC= 1(60 185)
A= 546 pD= 5460 SR=17.450 RA50=224.67 DEC50=-16.88 cone= 92.27 clock= 97.38
165AD:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8223 TC= 1(60 190)
A= 364 pD= 5460 SR=17.450 RA50=225.00 DEC50=-16.95 cone= 92.60 clock= 97.39
165AE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3683 TC= 1(-70 150)
A= 364 pD= 0 SR=17.450 RA50=223.07 DEC50=-20.64 cone= 91.80 clock= 93.35
165AF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9143 TC= 1(60 160)
A= 364 pD= 0 SR=17.450 RA50=224.64 DEC50=-16.78 cone= 92.22 clock= 97.47

G7JNAURMAP01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JUAURMAP01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JEE 97-094/11:03:48.400 -CDS 2505:00:0

OBSERVATION:G7JUAURMAP01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 1 :UVS 1

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

DESCRIP:Auroral_Map

NIMS Aurora Map	ACTIVITY ID: G7JNAURMAP01+ START TIME: 97-092/14:43:34.400

Activity ID: Orbit G7 Target J Inst N OAPEL AURMAP SeqNo 01 +

Title	NIMS Aurora Map			Instrument	NIMS
Requestor	NIMS-MWG/MSEGURA	Team	NIMS	Working Group	MWG

Time System CDS Load ID Calendar Date 04/02/97 Week 14

Start	JEE-CDS	00002631:00:0	97-092/14:43:34.400	JEE-001/20:20:14.000
End	JEE-CDS	00002397:00:0	97-092/18:40:10.400	JEE-001/16:23:38.000
Duration		00000234:00:0	000/03:56:36.000	000/03:56:36.000

Top Label G7JNAURMAP01+
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	140	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	ALL	DMS	No

Observation Objective

Observe H3+ emissions of Jupiter’s aurora.

Use different Mirror Block combinations to map out
the ’full’ extent of the NIMS footprint.
Mirror Block Groups used:
1) 1E,0F (11110,01111) MP 16-19
2) 1D,17 (11101,10111) MP 12-15
3) 0F,1E (01111,11110) MP 00-03
4) 17,1D (10111,11101) MP 04-07
5) 1E,0F (11110,01110) MP 16-19
6) 1D,17 (11101,10111) MP 12-15

Data Returned

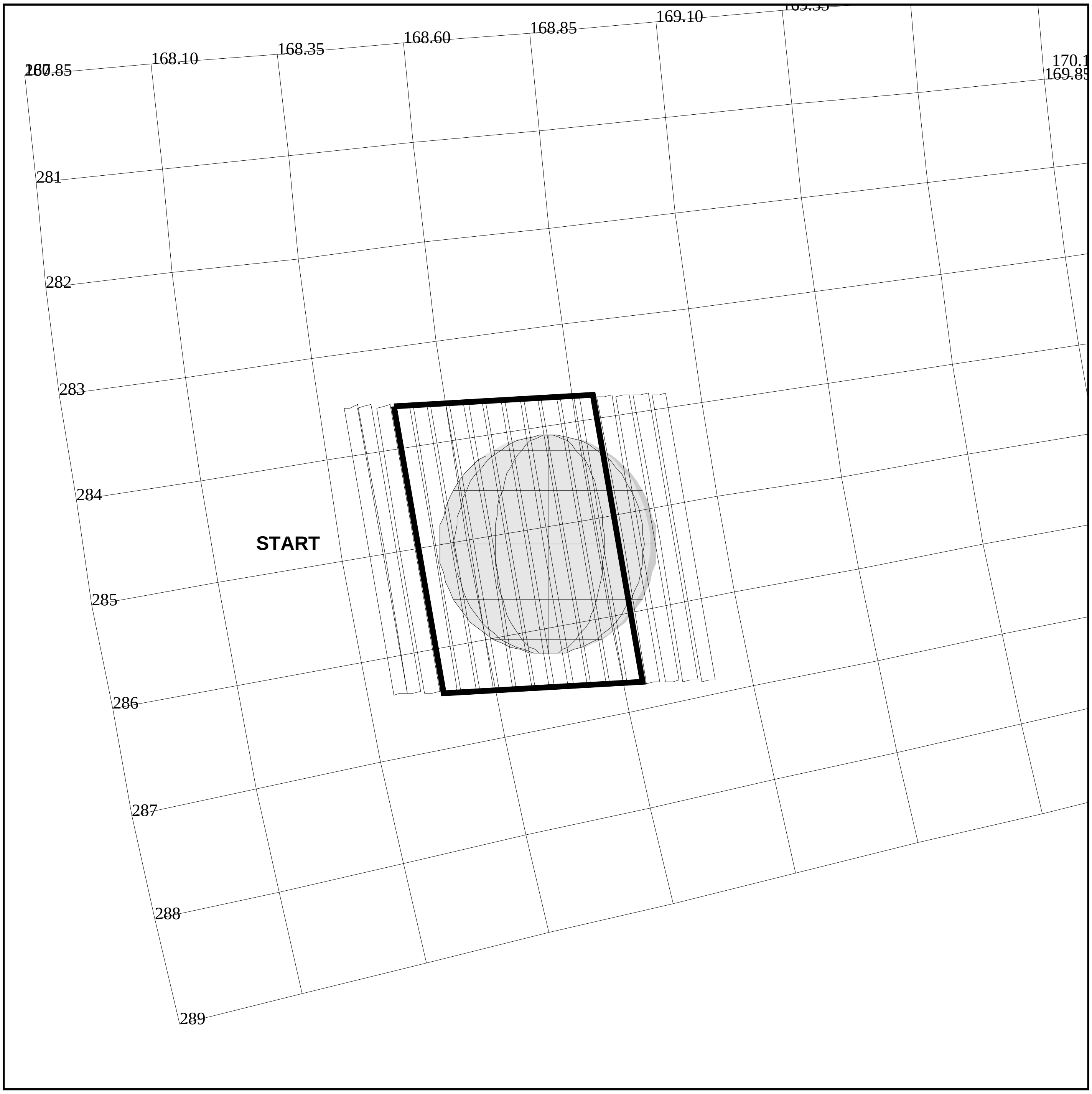
Design Detail

Ride along with UVS and FPSG recording. Wavelengths over 3 to 5 micron region to be returned as Real Time downlink permits. Note: Telemetry has to be 60 bps or greater to support this observation.   Three observations:
1) Centered at 60 degrees north latitude, 185 degrees longitude near rising limb for 13 RIMS, nightime; JEE-CDS 2500 to JEE-CDS 2487
2) Centered at 70 degrees south latitude 150 degrees longitude in daylight (just over the terminator) for 13 RIMS; JEE-CDS 2438 to CDS 2425
3). Centered at 60 degrees north latitude; 160 degrees longitude just over the terminator in daylight for 13 RIMS; JEE-CDS 2410 to JEE-CDS 2397.

For each observation, 4 different sets of mirror blocks are used.
First mirror block acquires data in the 4 most equatorial mirror positions.
The next mirror block observes the next poleward set of mirror positions, etc. For the most equatorward mirror block, 4 RIMS of data are taken.
For the other 3 mirror blocks, 3 RIMS of data are acquired.

Long Map (LM), Gain 2, Grating Start 0, R/T, G7JLM408

Galileo Activity Plan Form 03/17/97 17:37:30 rev 6/95



165DD:TT=   0 TMC= 1 C=   -5.20 XC=   -0.75 BS=20/3693 TC= 3
A= 586 pD=   0 SR=17.450 RA50=328.62 DEC50=-12.94 cone=168.42 clock=284.95
117DD:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS=20/3693
1:#s= 1 Cs=   5.70 XCs=   0.50 Cr=   0.00 XCr=   0.00 sD=   860 rD=   2

G7CNGLOBAL01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7CNGLOBAL01

TARGET BODY :   CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:CEE 97-092/16:50:58.466   +CDS 115:00:0

OBSERVATION:G7CNGLOBAL01

F_R_O_Z_E_N___T_M_C

THINNING:NIM   2

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

DESCRIP:CALLISTO GLOBAL MAP

Callisto Global Coverage

ACTIVITY ID: G7CNGLOBAL01-
START TIME: 97-092/18:43:12.466

Activity ID: Orbit G7 Target C Inst N OAPEL GLOBAL SeqNo 01 -

Title	Callisto Global Coverage			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 04/02/97 Week 14

Start	CEE+CDS	00000111:00:0	97-092/18:43:12.466	CEE+000/01:52:14.000
End	CEE+CDS	00000120:00:0	97-092/18:52:18.466	CEE+000/02:01:20.000
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label G7CNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	122	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

The objective is to obtain the best combined spatial and spectral resolution of Callisto's surface; investigate mineralogy and to determine the distribution of compositional units.
This is the first observation which encompasses the extent of the Valhalla multi-ring structure.

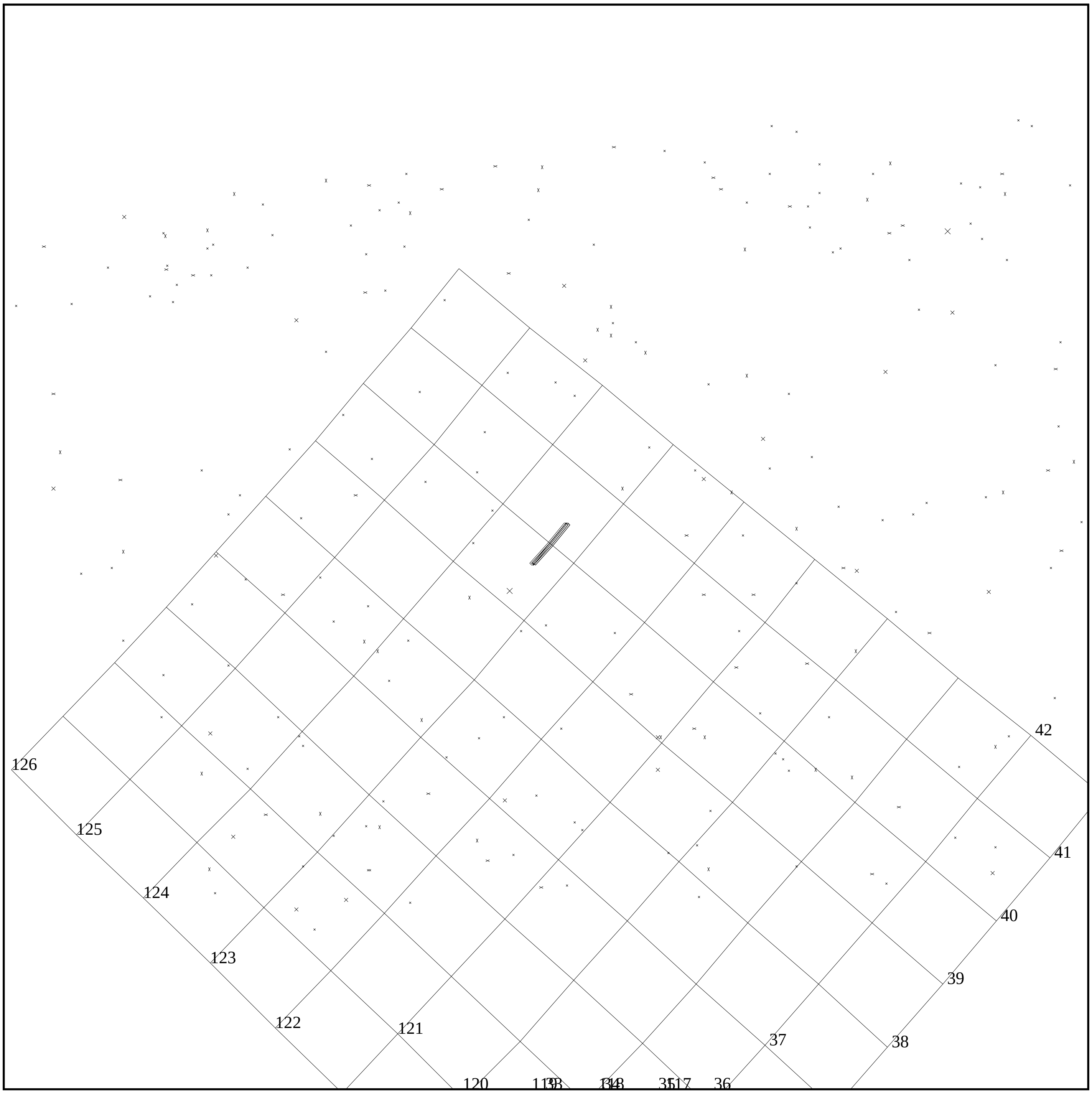
Data Returned

Design Detail

Instrument mode: LM
Instrument gain state: 2
Spatial Resolution: 320 km/NIMSel
Spectral Resolution: 408 wavelengths
Phase angle: 14.75
Coverage in NIMSels: Continuous slew full disk mosaic at Callisto closet approach, cover all lit long and lats. Observation contains one swath. This observation is happening at the last 10 rims of the UVS G7JAURMAP01-, which is not using the scan platform and the DMS. THE RESOURCE CLAIN IS DESELECTED HERE, but UVS will have the scan-platform and DMS claims in its oapel to avoid conflict.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7CLM442, G7CLM360

Galileo Activity Plan Form 03/17/97 17:37:30 rev 6/95



165DI:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0527 TC=15(-66.87 281.73)
A= 728 pD= 0 SR=17.450 RA50=281.73 DEC50=-66.87 cone=123.34 clock= 39.97

G7HNDARK__01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7HNDARK__01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTA 97-093/12:27:54.400 -CDS 462:00:0

OBSERVATION:G7HNDARK__01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 1

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

DESCRIP:NIMS Dark Sky 01

Dark Observation		ACTIVITY ID:	G7HNDARK__01-
		START TIME:	97-093/04:32:41.067

Activity ID: Orbit G7 Target H Inst N OAPEL DARK__ SeqNo 01 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/J.HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/03/97	Week 14

Start	JTA-CDS	00000470:00:0	97-093/04:32:41.067	JTA-000/07:55:13.333
End	JTA-CDS	00000460:00:0	97-093/04:42:47.734	JTA-000/07:45:06.666
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   G7HNDARK__01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	85	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 G7 orbit for purposes of calibration.

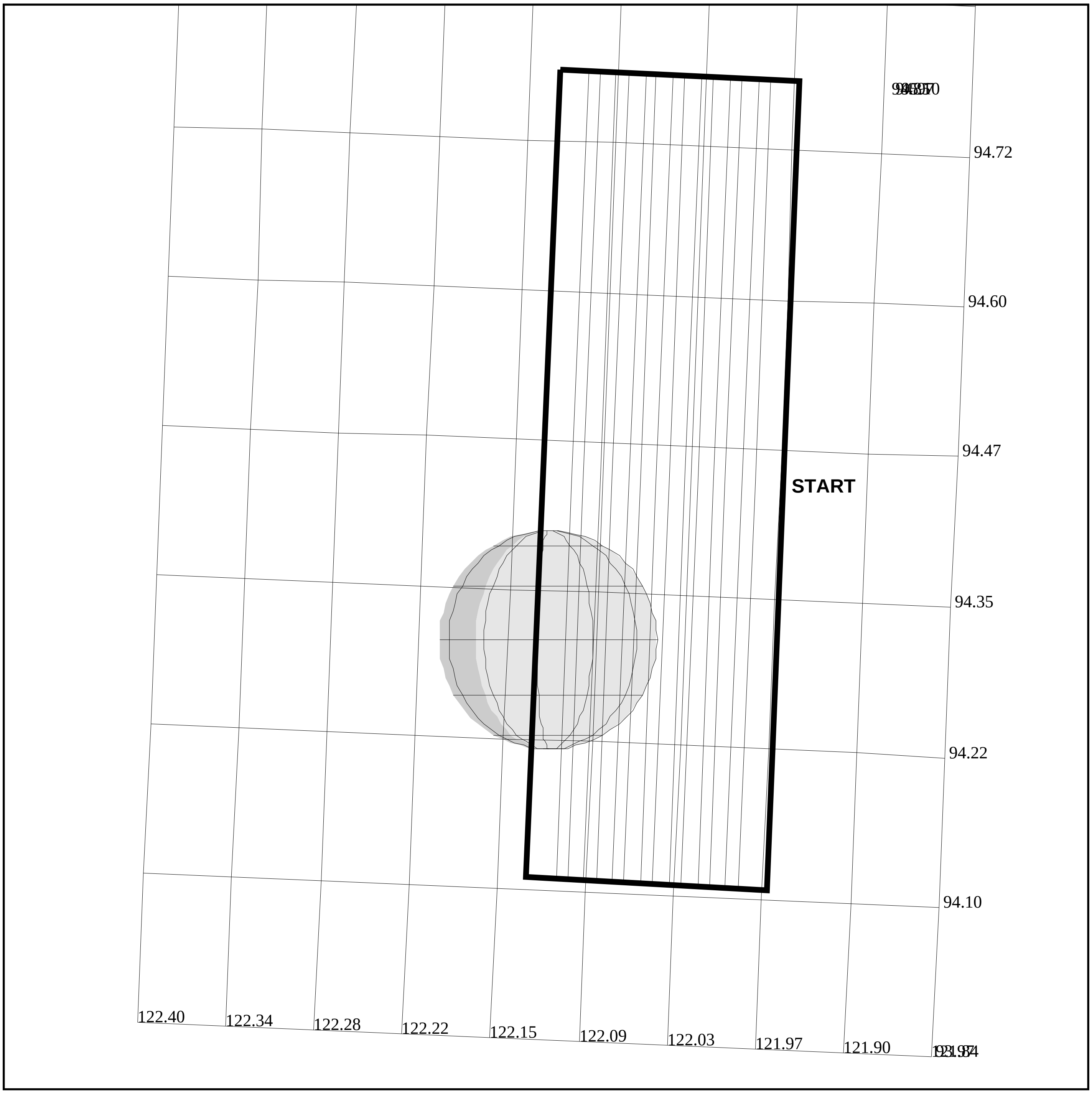
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in Long Map mode, Gain = 2, record mode = LPU, number of wavelengths = 204.

Long Map (LM), Gain 4, Grating Start 0, LPU, G7DRK34, G7DRK32

Galileo Activity Plan Form   03/17/97 17:37:30   rev 6/95



165DE:TT= 0 TMC= 1 C= -1.75 XC= 2.00 BS= 0/6169 TC= 3
A= 728 pD= 0 SR=17.450 RA50=255.57 DEC50=-24.55 cone=121.97 clock= 94.44
117DE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6169
1:#s= 1 Cs= 3.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 394 rD= 2

G7INCHEMIS01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 -CDS 949:00:0

OBSERVATION:G7INCHEMIS01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Dayside Monitoring 01

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: G7INCHEMIS01- START TIME: 97-093/05:07:03.733

Activity ID: Orbit G7 Target I 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	04/03/97	Week	14

Start	IEE-CDS	00000954:00:0	97-093/05:07:03.733	IEE-000/16:04:36.000
End	IEE-CDS	00000946:00:0	97-093/05:15:09.067	IEE-000/15:56:30.666
Duration		00000008:00:0	000/00:08:05.334	000/00:08:05.334

Top Label	G7INCHEMIS01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	131	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

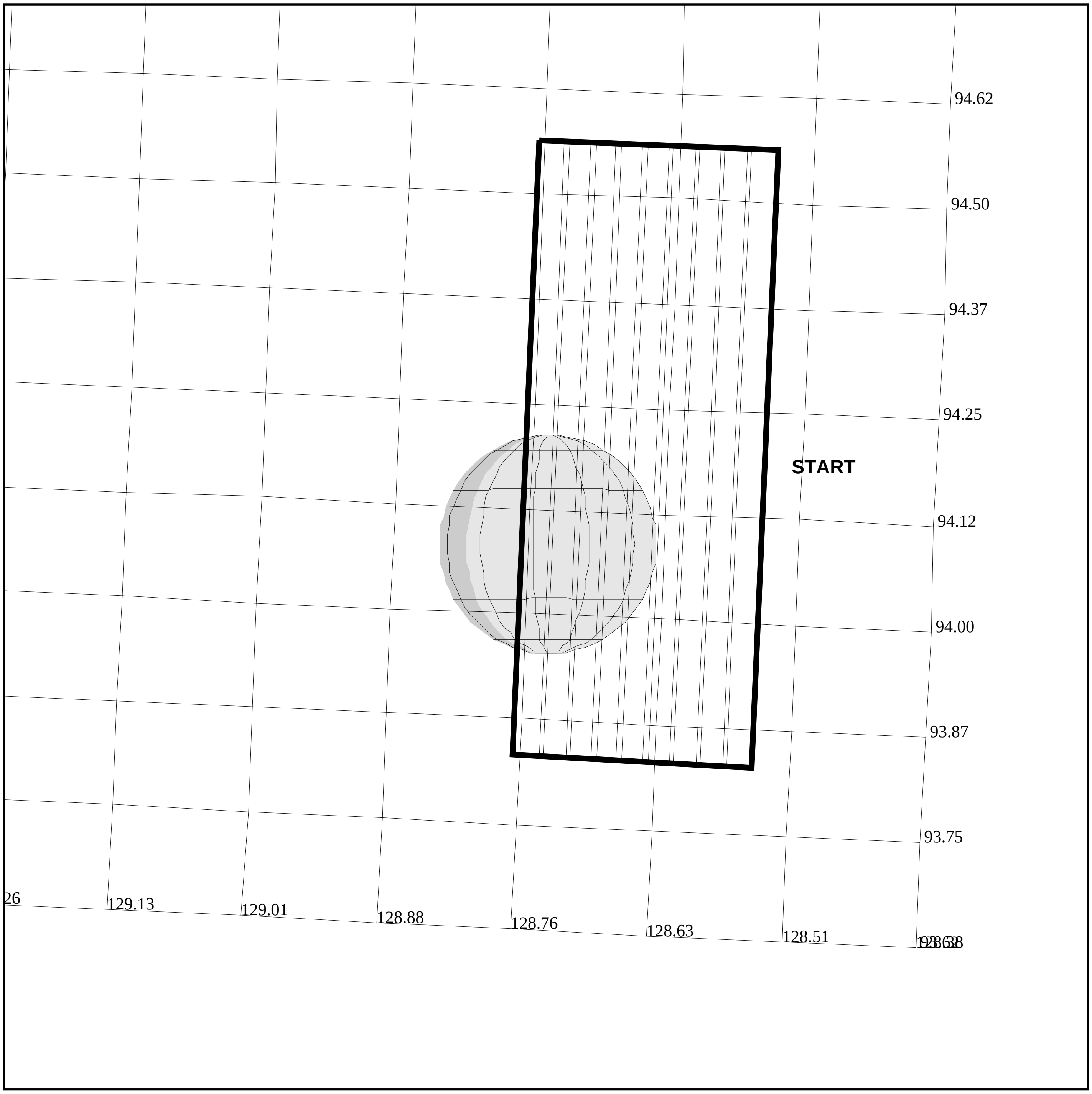
Design Detail

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, 102 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, G7ILM244B, G7ILM102B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DG:TT= 0 TMC= 1 C= -2.25 XC= 1.50 BS= 0/9849 TC= 3
A= 182 pD= 0 SR=17.450 RA50=262.80 DEC50=-24.92 cone=128.55 clock= 94.20
117DG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9849
1:#s= 1 Cs= 4.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 434 rD= 2

G7INCHEMIS02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 -CDS 709:00:0

OBSERVATION:G7INCHEMIS02

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Dayside Monitoring 02

MONITORING OF IO'S DAYSIDE	**ACTIVITY ID:**	**G7INCHEMIS02-**
	START TIME:	**97-093/09:11:45.067**

Activity ID: Orbit G7 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	04/03/97	Week	14

Start	IEE-CDS	00000712:00:0	97-093/09:11:45.067	IEE-000/11:59:54.666
End	IEE-CDS	00000706:30:0	97-093/09:17:29.067	IEE-000/11:54:10.666
Duration		00000005:61:0	000/00:05:44.000	000/00:05:44.000

Top Label G7INCHEMIS02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	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

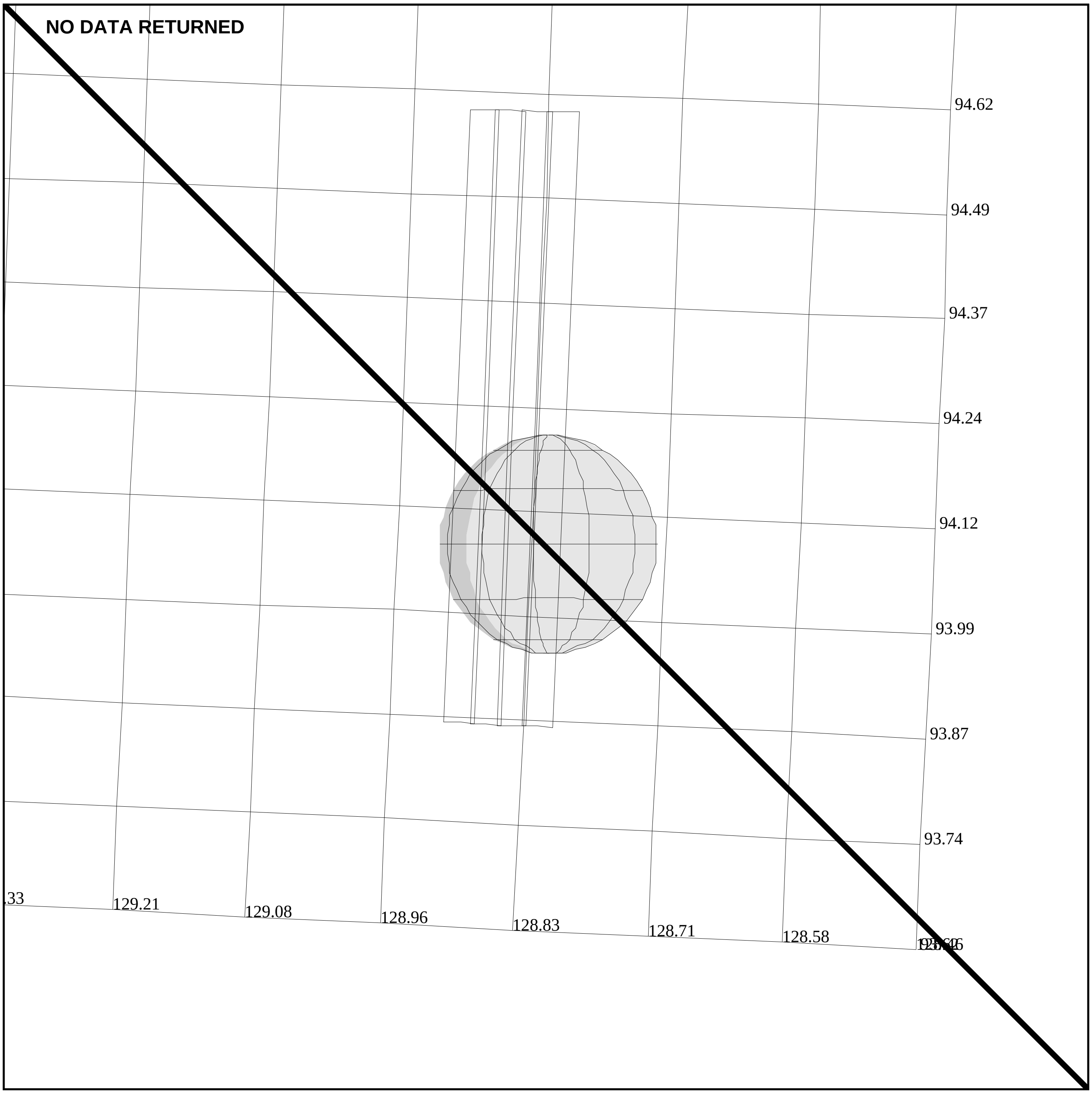
Design Detail

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, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
This observation is tied in with SSI, G7ISSMONLO01-

Long Map (LM), Gain 2, Grating Start 0, LPU, G7ILM244B, G7ILM216B

Galileo Activity Plan Form   03/17/97 17:37:31   rev 6/95



165DH:TT= 0 TMC= 1 C= 1.00 XC= 2.00 BS= 0/0577 TC= 3
A= 182 pD= 0 SR=17.450 RA50=263.09 DEC50=-24.89 cone=128.81 clock= 94.23
117DH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0577
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 204 rD= 2

G7INTHRMAL02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INTHRMAL02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 -CDS 705:00:0

OBSERVATION:G7INTHRMAL02

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Nightside Monitoring 02

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID:	G7INTHRMAL02-
	START TIME:	97-093/09:17:35.733

Activity ID: Orbit G7 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	04/03/97	Week	14

Start	IEE-CDS	00000706:20:0	97-093/09:17:35.733	IEE-000/11:54:04.000
End	IEE-CDS	00000703:00:0	97-093/09:20:51.067	IEE-000/11:50:48.666
Duration		00000003:20:0	000/00:03:15.334	000/00:03:15.334

Top Label	G7INTHRMAL02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	149	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

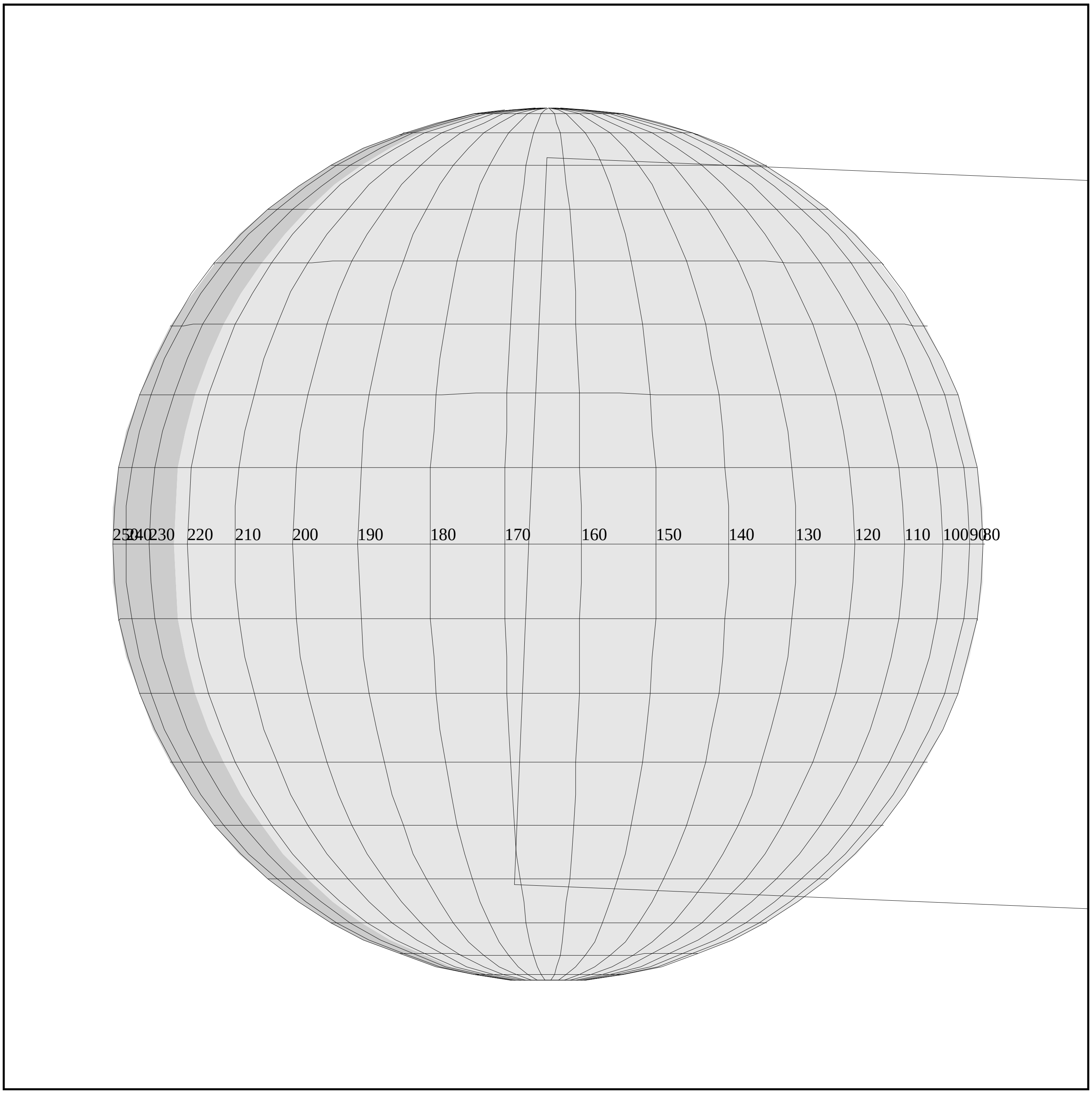
Design Detail

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: 102,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.
This observation is tied in with SSI, G7ISSMONLO01-

Long Map (LM), Gain 4, Grating Start 0, LPU, G7ILMDK244B, G7ILMDK102B

Galileo Activity Plan Form   03/17/97 17:37:31   rev 6/95



165IC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1213 TC= 1(0 150)
A= 728 pD= 364 SR=17.450 RA50=274.49 DEC50=-24.80 cone=139.15 clock= 93.63

G7NNHEALTH01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7ESGLOBAL01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:EEE 97-094/05:58:27.066 -CDS 728:00:0

OBSERVATION:G7ESGLOBAL01

F_R_O_Z_E_N___T_M_C

THINNING:

BODY PLOT TIME:TARGET-TIME D= 364 S= 0.800

DESCRIP:Europa_Full_Disk

G7 NIMS Health Observation		**ACTIVITY ID:**	**G7NNHEALTH01-**
		START TIME:	**97-093/17:39:19.733**

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 01 -

Title	G7 NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIM	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/03/97	Week	14

Start	IEE-CDS	00000210:00:0	97-093/17:39:19.733	IEE-000/03:32:20.000
End	IEE-CDS	00000205:00:0	97-093/17:44:23.067	IEE-000/03:27:16.666
Duration		00000005:00:0	000/00:05:03.334	000/00:05:03.334

Top Label	G7NNHEALTH01-
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

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 frequently to monitor the health of the NIMS instrument.

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form   03/17/97 17:37:31   rev 6/95

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NIMS Software Reload	ACTIVITY ID: G7NNNIMSLD01-
	START TIME: 97-093/17:45:23.733

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	04/03/97	Week	14

Start	IEE-CDS	00000204:00:0	97-093/17:45:23.733	IEE-000/03:26:16.000
End	IEE-CDS	00000194:00:0	97-093/17:55:30.400	IEE-000/03:16:09.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7NNNIMSLD01-
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.

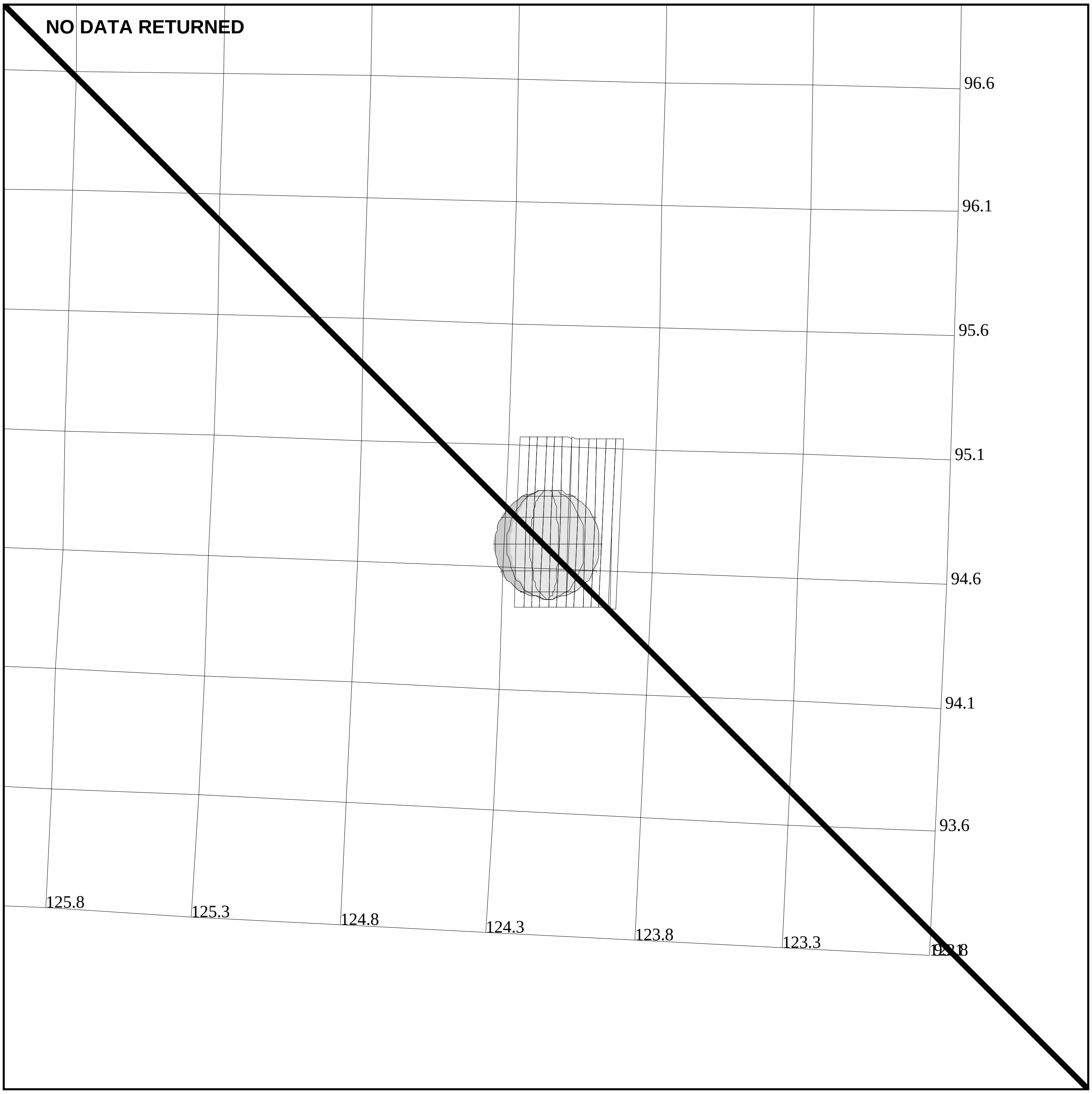
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:31 rev 6/95



165DJ:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/4489 TC= 3
A= 728 pD= 590 SR=17.450 RA50=257.77 DEC50=-24.43 cone=123.91 clock= 94.79
117DJ:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/4489
1:#s= 1 Cs= 3.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 590 rD= 2

G7INCHEMIS03

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

F_R_O_Z_E_N___T_M_C

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-093/21:11:39.733 -CDS 189:00:0

BODY PLOT TIME:TARGET-TIME D= 590 S= 0.100

OBSERVATION:G7INCHEMIS03

DESCRIP:Io Dayside Monitoring 03

MONITORING OF IO'S DAYSIDE ACTIVITY ID: G7INCHEMIS03-
START TIME: 97-093/17:55:30.400

Activity ID: Orbit G7 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 04/03/97 Week 14

Start	IEE-CDS 00000194:00:0	97-093/17:55:30.400	IEE-000/03:16:09.333
End	IEE-CDS 00000185:55:0	97-093/18:03:59.733	IEE-000/03:07:40.000
Duration	00000008:36:0	000/00:08:29.333	000/00:08:29.333

Top Label G7INCHEMIS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	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

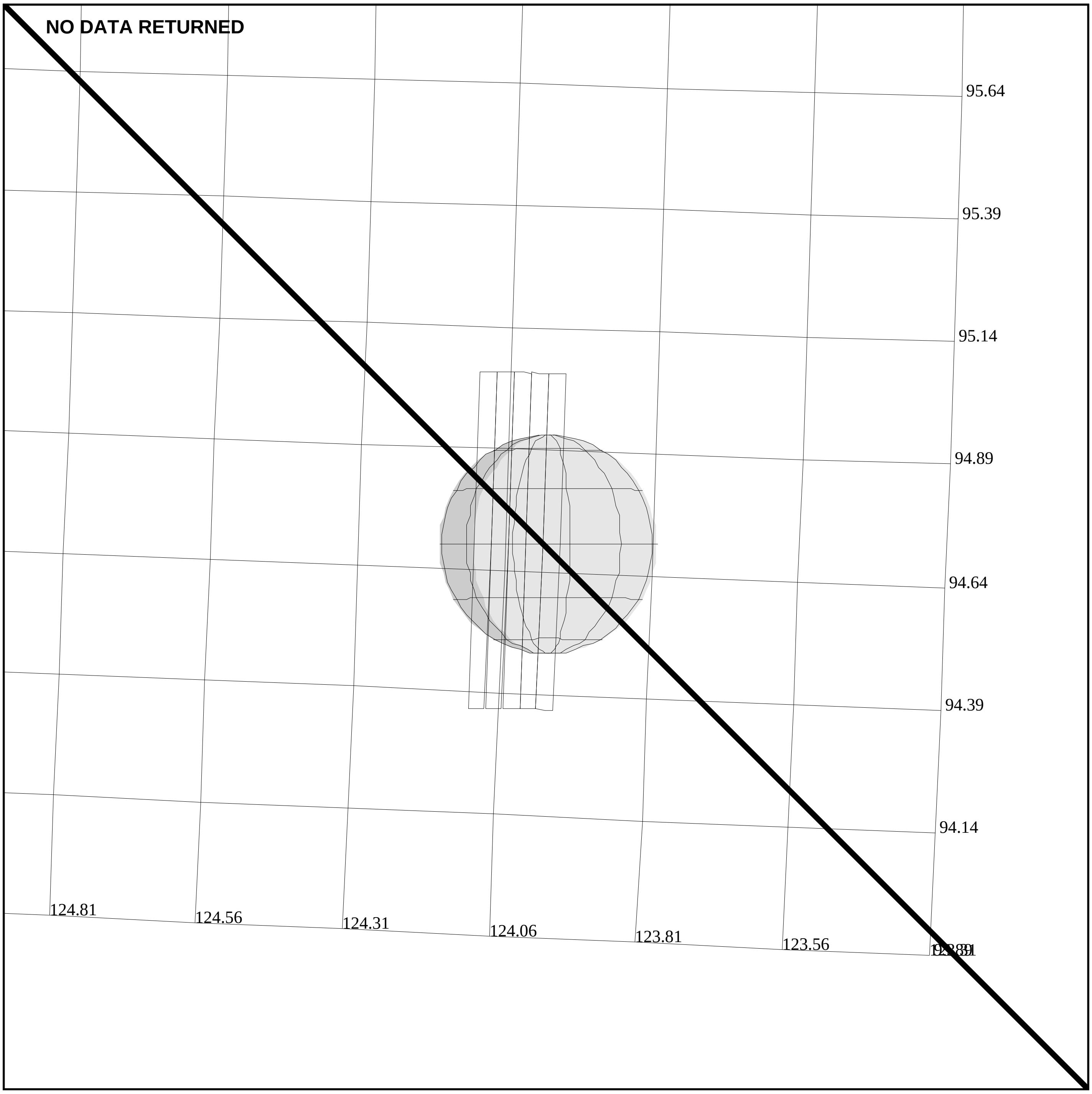
Design Detail

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, 102 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, G7ILM442, G7ILM102B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DL:TT= 0 TMC= 1 C= 1.40 XC= 0.00 BS= 0/5399 TC= 3
A= 182 pD= 0 SR=17.450 RA50=257.77 DEC50=-24.42 cone=123.97 clock= 94.71
117DL:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5399
1:#s= 1 Cs= 1.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G7INTHRMAL03

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INTHRMAL03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

F_R_O_Z_E_N___T_M_C

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-093/21:11:39.733 -CDS 184:00:0

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

OBSERVATION:G7INTHRMAL03

DESCRIP:Io Nightside Monitoring 03

MONITORING OF IO'S NIGHTSIDE | **ACTIVITY ID: G7INTHRMAL03-**
START TIME: 97-093/18:04:09.733

Activity ID: Orbit G7 Target I Inst N OAPEL THRMAL SeqNo 03 -

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	04/03/97	Week	14

Start	IEE-CDS	00000185:40:0	97-093/18:04:09.733	IEE-000/03:07:30.000
End	IEE-CDS	00000182:57:0	97-093/18:07:00.400	IEE-000/03:04:39.333
Duration		00000002:74:0	000/00:02:50.667	000/00:02:50.667

Top Label	G7INTHRMAL03-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	149	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

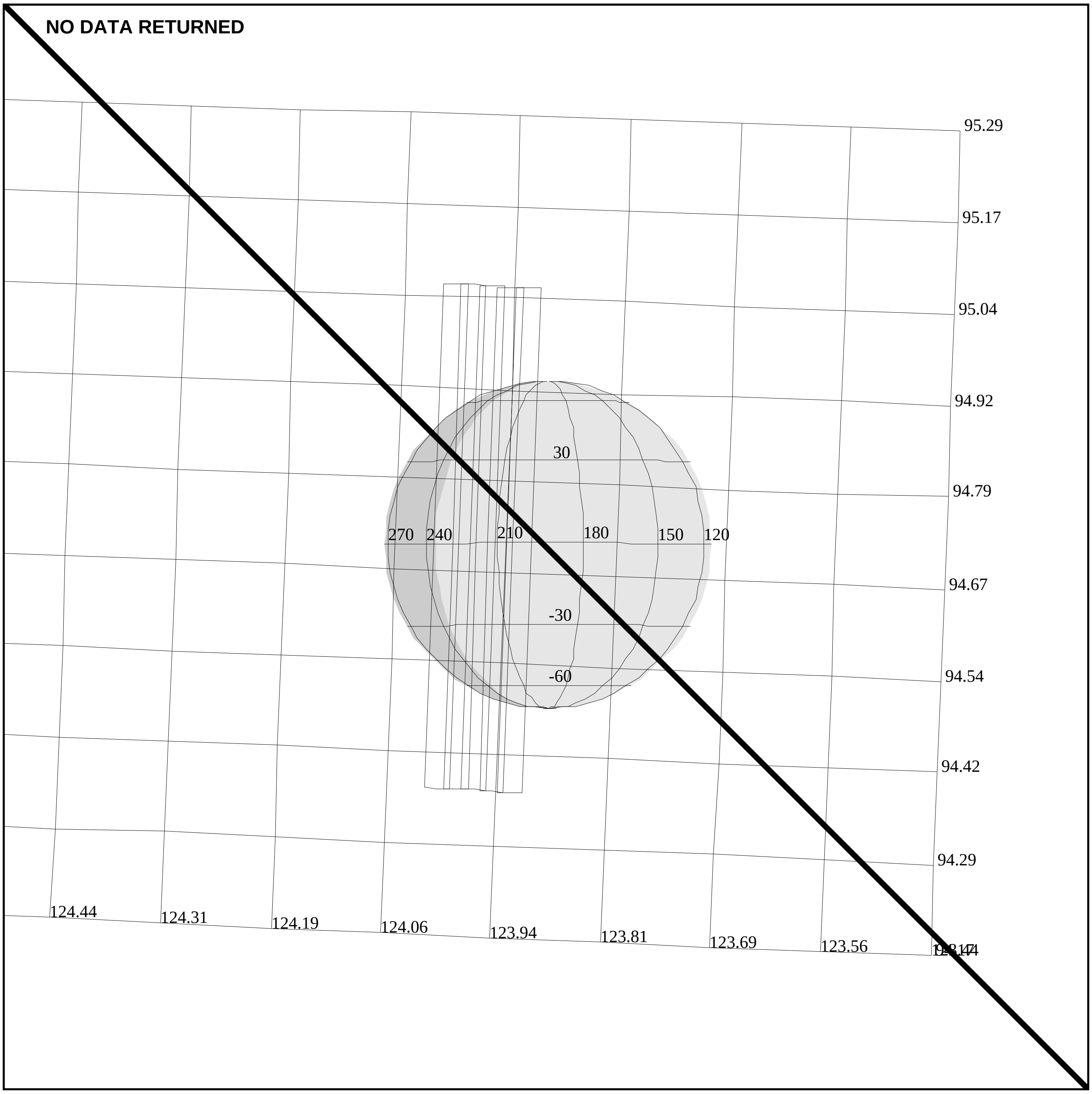
Design Detail

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: 102,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.
1 RIM targetting.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7ILM442, G7ILMDK102B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DN:TT= 0 TMC= 1 C= 3.70 XC= 0.00 BS= 0/5945 TC= 3
A= 182 pD= 0 SR=17.450 RA50=257.81 DEC50=-24.42 cone=124.01 clock= 94.71
117DN:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5945
1:#s= 1 Cs= -2.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G7INVOLCAN01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 -CDS 181:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:G7INVOLCAN01 **DESCRIP:Io Volcan 01**

MONITORING OF SELECTED VOLCANIC REGIONS	ACTIVITY ID: G7INVOLCAN01- START TIME: 97-093/18:07:20.400

Activity ID: Orbit G7 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 04/03/97 Week 14

Start	IEE-CDS	00000182:27:0	97-093/18:07:20.400	IEE-000/03:04:19.333
End	IEE-CDS	00000179:00:0	97-093/18:10:40.400	IEE-000/03:00:59.333
Duration		00000003:27:0	000/00:03:20.000	000/00:03:20.000

Top Label G7INVOLCAN01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	125	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

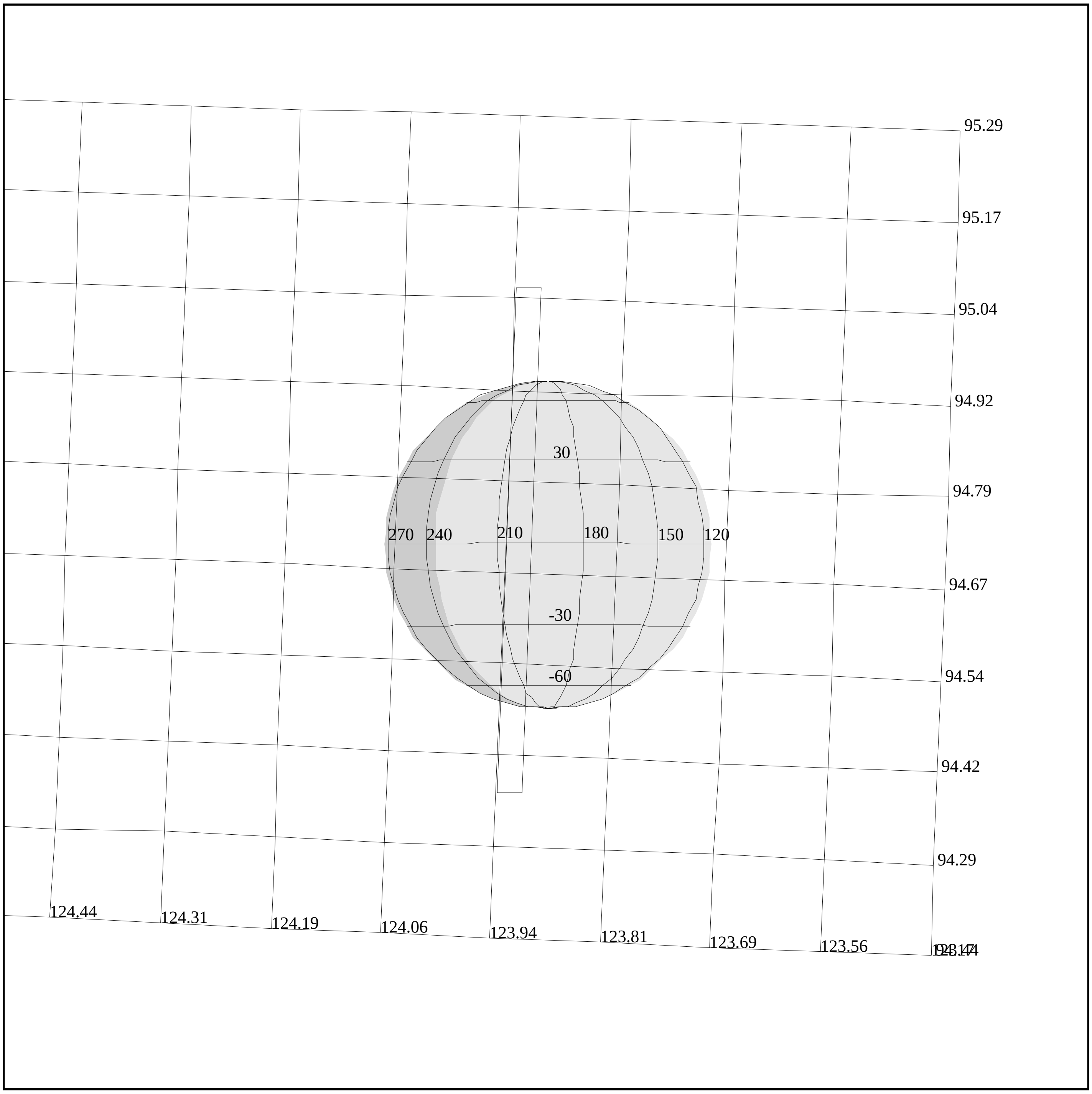
Design Detail

Long Map, 12 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.)
1 rim targetting.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7ILM442, G7ILMDK102B

Galileo Activity Plan Form 03/17/97 17:37:31 rev 6/95



165DN:TT= 0 TMC= 1 C= 3.70 XC= 0.00 BS= 0/5945 TC= 3
A= 182 pD= 0 SR=17.450 RA50=257.81 DEC50=-24.42 cone=124.01 clock= 94.71
117DN:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5945
1:#s= 1 Cs= -2.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G7NNHEALTH02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 -CDS 181:00:0

OBSERVATION:G7INVOLCAN01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Volcan 01

G7 NIMS Health Observation	ACTIVITY ID:	G7NNHEALTH02-
	START TIME:	97-093/18:10:47.067

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 02 -

Title	G7 NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/03/97	Week	14

Start	IEE-CDS	00000178:81:0	97-093/18:10:47.067	IEE-000/03:00:52.666
End	IEE-CDS	00000173:00:0	97-093/18:16:44.400	IEE-000/02:54:55.333
Duration		00000005:81:0	000/00:05:57.333	000/00:05:57.333

Top Label	G7NNHEALTH02-
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 frequently to monitor the health of the NIMS instrument.

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form   03/17/97 17:37:32   rev 6/95

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NIMS Software Reload	ACTIVITY ID: G7NNNIMSLD02-
	START TIME: 97-093/20:42:20.400

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	04/03/97	Week	14

Start	IEE-CDS	00000029:00:0	97-093/20:42:20.400	IEE-000/00:29:19.333
End	IEE-CDS	00000019:00:0	97-093/20:52:27.067	IEE-000/00:19:12.666
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	G7NNNIMSLD02-
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.

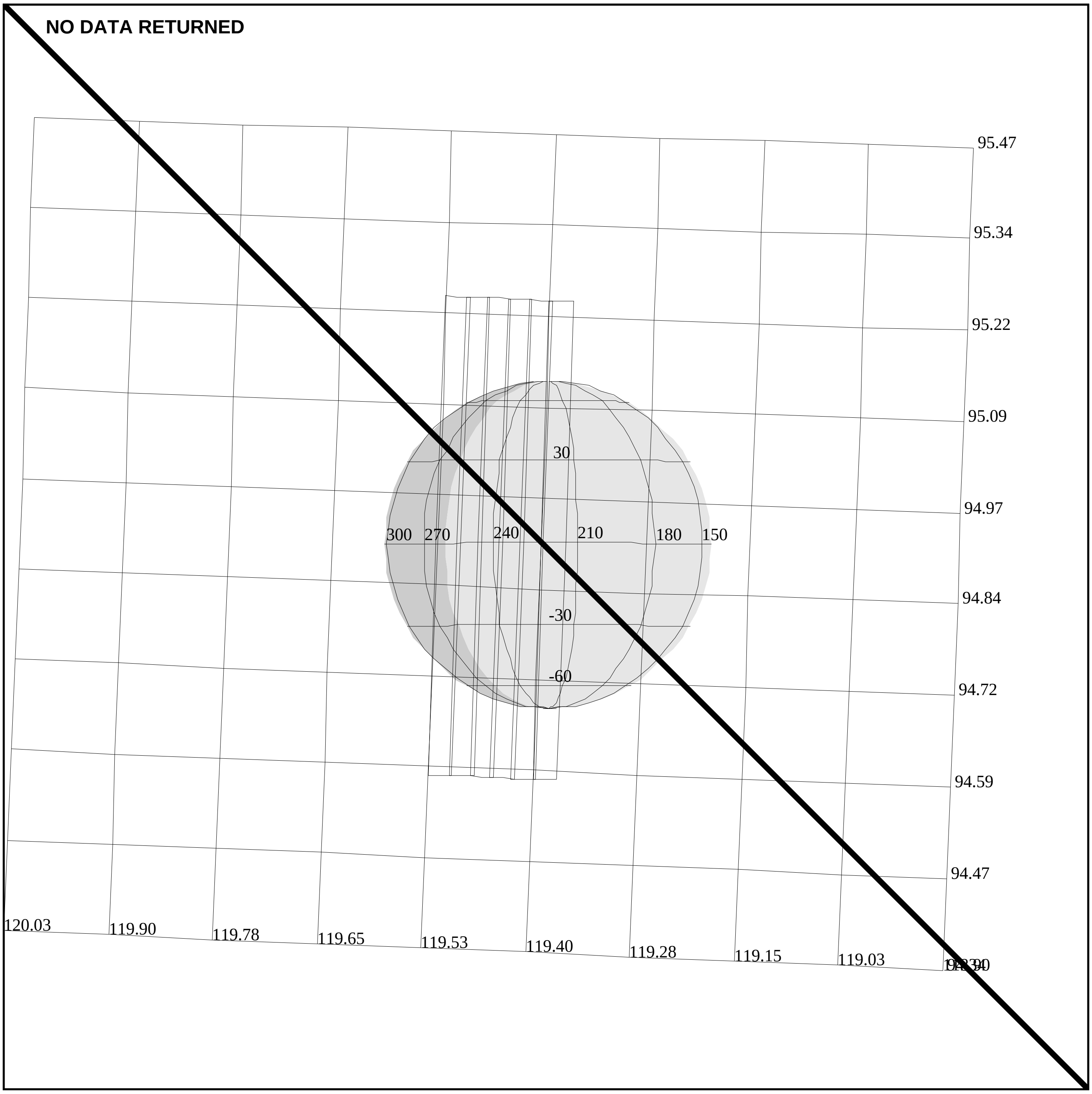
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:32 rev 6/95



165DU:TT= 0 TMC= 1 C= 3.70 XC= 0.00 BS= 0/6339 TC= 3
A= 728 pD= 0 SR=17.450 RA50=252.91 DEC50=-23.99 cone=119.52 clock= 94.91
117DU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6339
1:#s= 1 Cs= -2.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 280 rD= 2

G7INVOLCAN02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

F_R_O_Z_E_N___T_M_C

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-093/21:11:39.733 -CDS 14:00:0

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

OBSERVATION:G7INVOLCAN02

DESCRIP:Io Volcan 02

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: G7INVOLCAN02-
START TIME: 97-093/20:53:14.400

Activity ID: Orbit G7 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 04/03/97 Week 14

Start	IEE-CDS	00000018:20:0	97-093/20:53:14.400	IEE-000/00:18:25.333
End	IEE-CDS	00000012:30:0	97-093/20:59:11.733	IEE-000/00:12:28.000
Duration		00000005:81:0	000/00:05:57.333	000/00:05:57.333

Top Label G7INVOLCAN02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	156	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

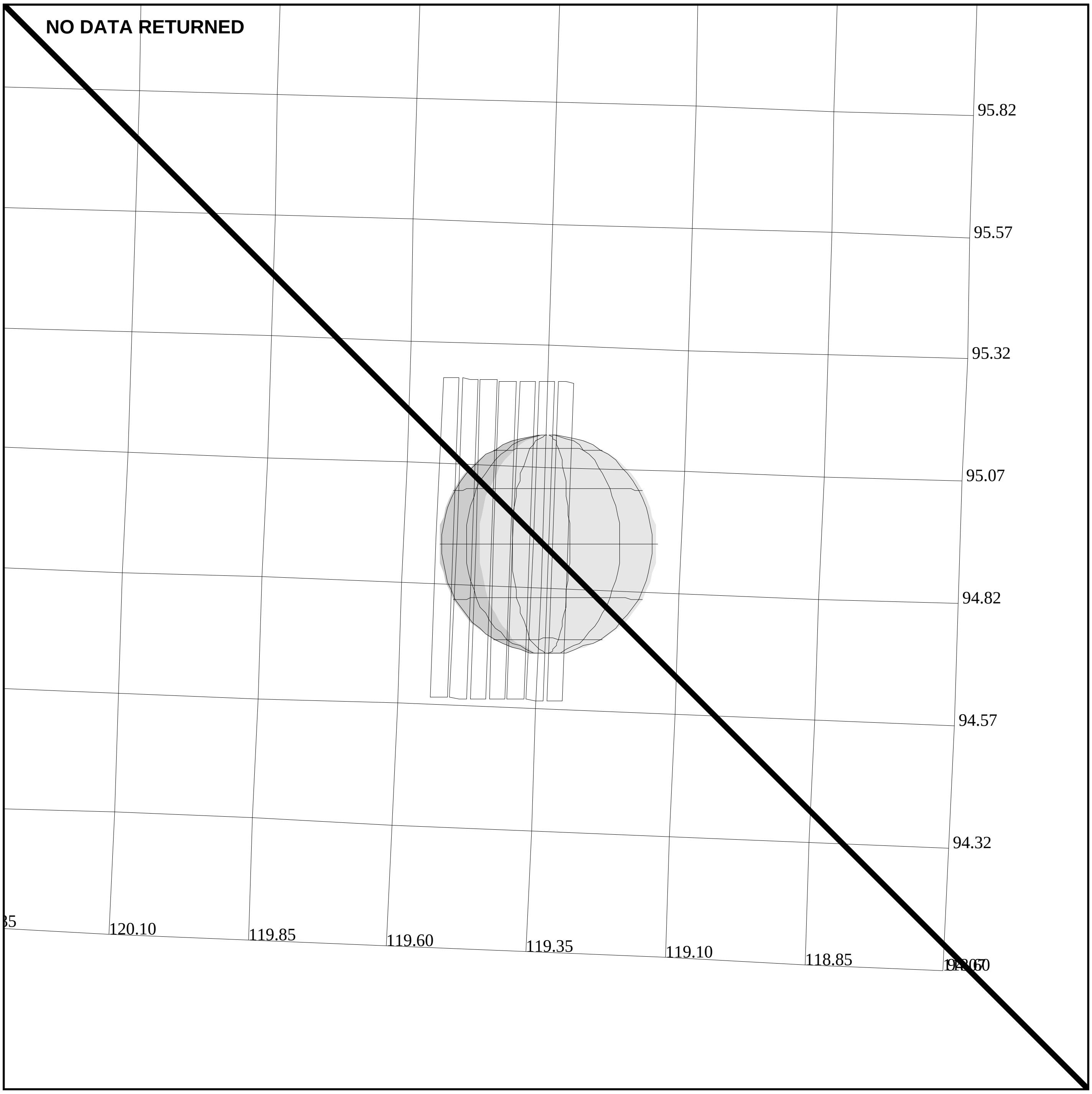
Long Map, 12 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

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, G7ILMDK244B, G7ILMDK102B

Galileo Activity Plan Form 03/17/97 17:37:32 rev 6/95



165DV:TT= 0 TMC= 1 C= 1.00 XC= 0.00 BS= 0/6885 TC= 3
A= 182 pD= 0 SR=17.450 RA50=252.68 DEC50=-23.97 cone=119.31 clock= 94.91
117DV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6885
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 354 rD= 2

G7INTHRMAL04

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INTHRMAL04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 -CDS 11:00:0

OBSERVATION:G7INTHRMAL04

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Nightside Monitoring 04

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: G7INTHRMAL04- START TIME: 97-093/20:59:21.733

Activity ID: Orbit G7 Target I Inst N OAPEL THRMAL SeqNo 04 -

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	04/03/97	Week	14

Start	IEE-CDS	00000012:15:0	97-093/20:59:21.733	IEE-000/00:12:18.000
End	IEE-CDS	00000009:06:0	97-093/21:02:29.733	IEE-000/00:09:10.000
Duration		00000003:09:0	000/00:03:08.000	000/00:03:08.000

Top Label G7INTHRMAL04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	125	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

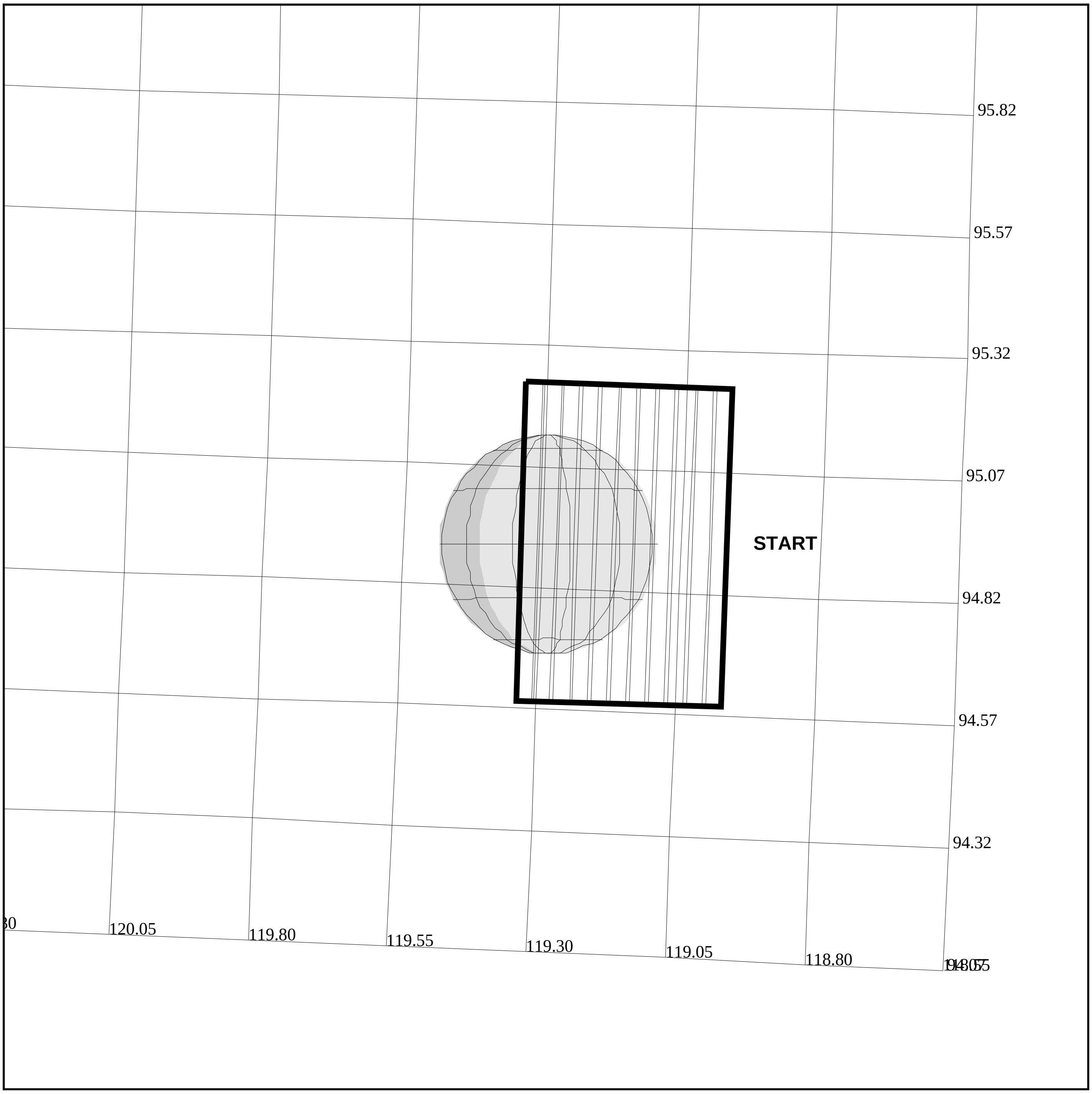
Design Detail

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: 102,
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, MPW, G7ILM442, G7ILMDK102B

Galileo Activity Plan Form 03/17/97 17:37:32 rev 6/95



165DW:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/7431 TC= 3
A= 182 pD= 0 SR=17.450 RA50=252.32 DEC50=-23.95 cone=118.98 clock= 94.91
117DW:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7431
1:#s= 1 Cs= 5.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 534 rD= 2

G7INHRSPEC01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 -CDS 8:00:0

OBSERVATION:G7INHRSPEC01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io High Resolution Dayside Map

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: G7INHRSPEC01- START TIME: 97-093/21:02:30.400

Activity ID: Orbit G7 Target I Inst N OAPEL HRSPEC 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	04/03/97	Week	14

Start	IEE-CDS	00000009:05:0	97-093/21:02:30.400	IEE-000/00:09:09.333
End	IEE-CDS	00000004:00:0	97-093/21:07:37.067	IEE-000/00:04:02.666
Duration		00000005:05:0	000/00:05:06.667	000/00:05:06.667

Top Label	G7INHRSPEC01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	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, G7ILM442, G7ILM360

Galileo Activity Plan Form   03/17/97 17:37:32   rev 6/95

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NIMS Software Reload	ACTIVITY ID: G7NNNIMSLD03- START TIME: 97-093/21:20:45.734

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 03 -

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

Time System CDS Load ID Calendar Date 04/03/97 Week 14

Start	JTB-CDS	00000079:00:0	97-093/21:20:45.734	JTB-000/01:19:52.666
End	JTB-CDS	00000069:00:0	97-093/21:30:52.400	JTB-000/01:09:46.000
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label G7NNNIMSLD03-
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.

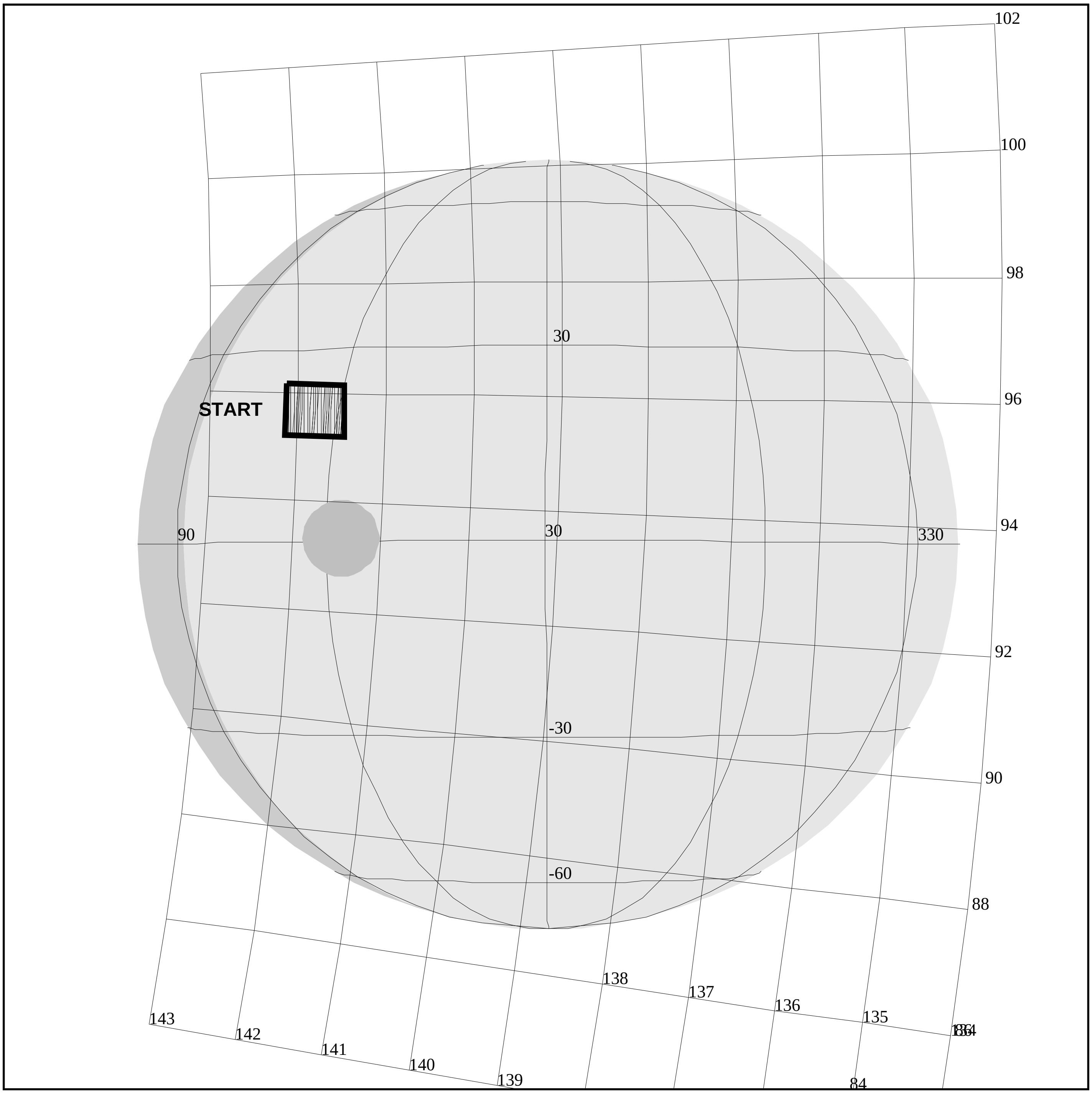
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS, instrument restart, and operational mode set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:32 rev 6/95



165DK:TT= 0 TMC= 1 C= 5.40 XC= 0.00 BS= 0/3255 TC= 1(20 65)
A= 728 pD= 0 SR=17.450 RA50=277.61 DEC50=-23.23 cone=142.13 clock= 95.68
117DK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3255
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFC04101

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNPFC04101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 -CDS 64:00:0

OBSERVATION:G7JNPFC04101

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_41_DEG_PHASE_01

Jupiter 22 N Feature Trk 41 deg phase		ACTIVITY ID:	G7JNPFC04101-
		START TIME:	97-093/21:30:52.400

Activity ID: Orbit G7 Target J Inst N OAPEL PFC041 SeqNo 01 -

Title	Jupiter 22 N Feature Trk 41 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/03/97 Week 14

Start	JTB-CDS	00000069:00:0	97-093/21:30:52.400	JTB-000/01:09:46.000
End	JTB-CDS	00000062:00:0	97-093/21:37:57.067	JTB-000/01:02:41.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G7JNPFC04101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	159	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 4 OAPELs constituting the North Temperate Belt feature C partial campaign. This is the only observation obtained on a rotation with phase angle approximately 28 degrees. Feature C imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with NTeB feature near the terminator, assuming feature coordinates 20 degrees North latitude (planetographic) and 65 degrees west longitude (System III)
Original Times: Start CDS = 1064:31 End CDS = 1058:31 Duration = 6:00

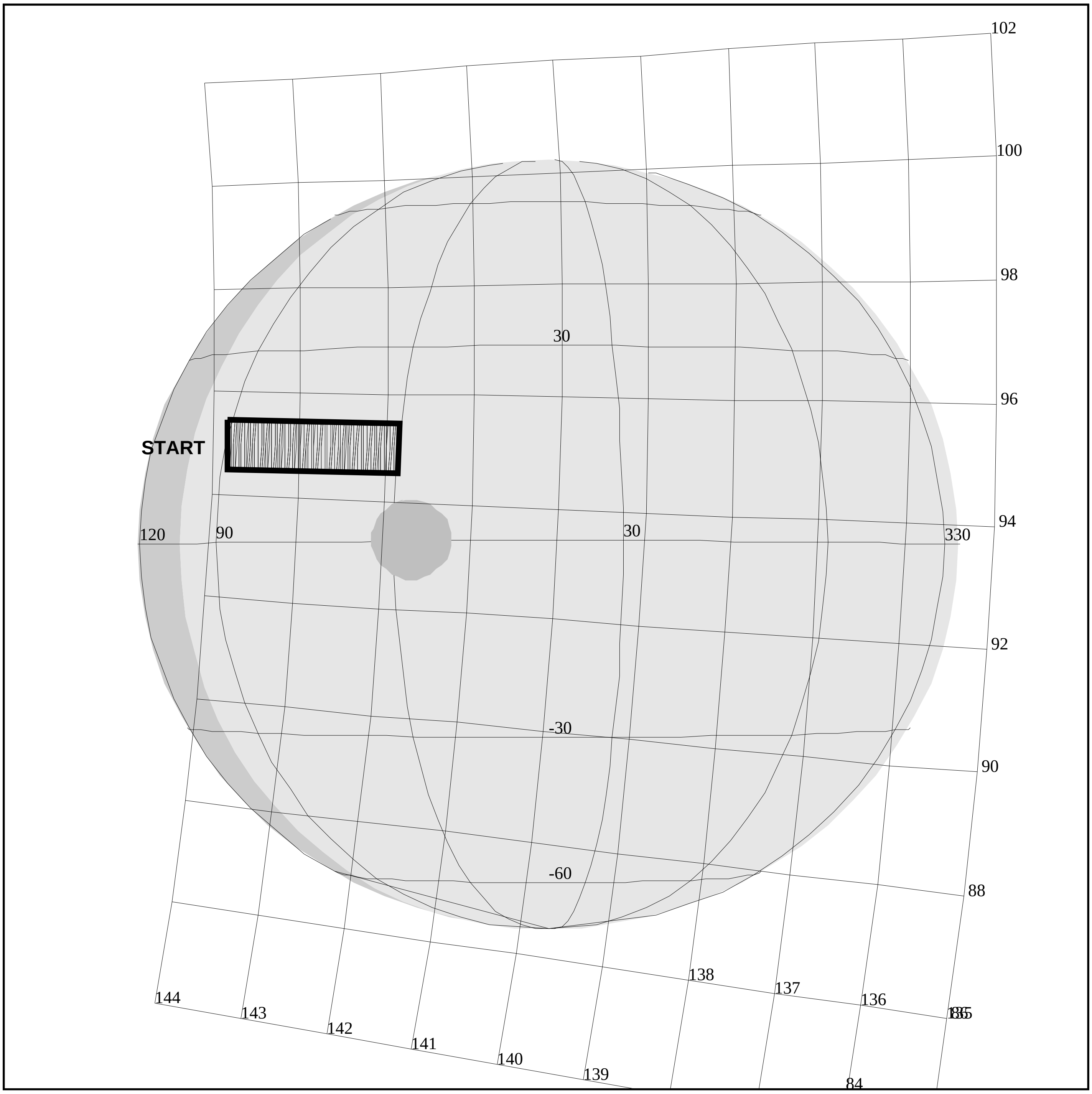
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on NTeB partial comparison feature near 65 degrees West longitude, 22 degrees North latitude.
S/C distance about 0.82 million KM, NIMS IFOV (NIMSEL) = 410 KM;
1*1 mosaic covers 8200*8200 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting.
This observation referenced to EPOCH JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form 03/17/97 17:37:32 rev 6/95



165DM:TT=   0 TMC= 1 C=   27.00 XC=   0.00 BS= 0/6531 TC= 1(14   65   )
A= 364 pD=   0 SR=17.450 RA50=279.49 DEC50=-23.47 cone=143.82 clock= 94.99
117DM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6531
1:#s= 1 Cs= -32.80 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   900 rD=   2

G7JNFEAP4101

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEAP4101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400   -CDS 46:00:0

OBSERVATION:G7JNFEAP4101

F_R_O_Z_E_N___T_M_C

THINNING:NIM   2

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

DESCRIP:JUP_FTR/PRTL_TRK_41_PHASE_01

Jupiter Ftr and Prtl Trk 41 deg part 1 ACTIVITY ID: G7JNFEAP4101-
START TIME: 97-093/21:51:05.734

Activity ID: Orbit G7 Target J Inst N OAPEL FEAP41 SeqNo 01 -

Title	Jupiter Ftr and Prtl Trk 41 deg part 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/03/97 Week 14

Start	JTB-CDS 00000049:00:0	97-093/21:51:05.734	JTB-000/00:49:32.666
End	JTB-CDS 00000041:00:0	97-093/21:59:11.067	JTB-000/00:41:27.333
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label G7JNFEAP4101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	137	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the North Tropical Zone (hopefully Brown Barge) feature track. Also, the first of 4 OAPELs constituting the partial feature track covering additional territory near the Brown Barge. For the primary feature this is the first observation obtained on a rotation with phase angle approximately 28 degrees. For the surrounding territory, this is the first observation at this phase angle. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near the morning terminator, at approximately 35 degrees relative longitude.
Original Times: Start CDS = 1044:21 End CDS = 1033:62 Duration = 10:50

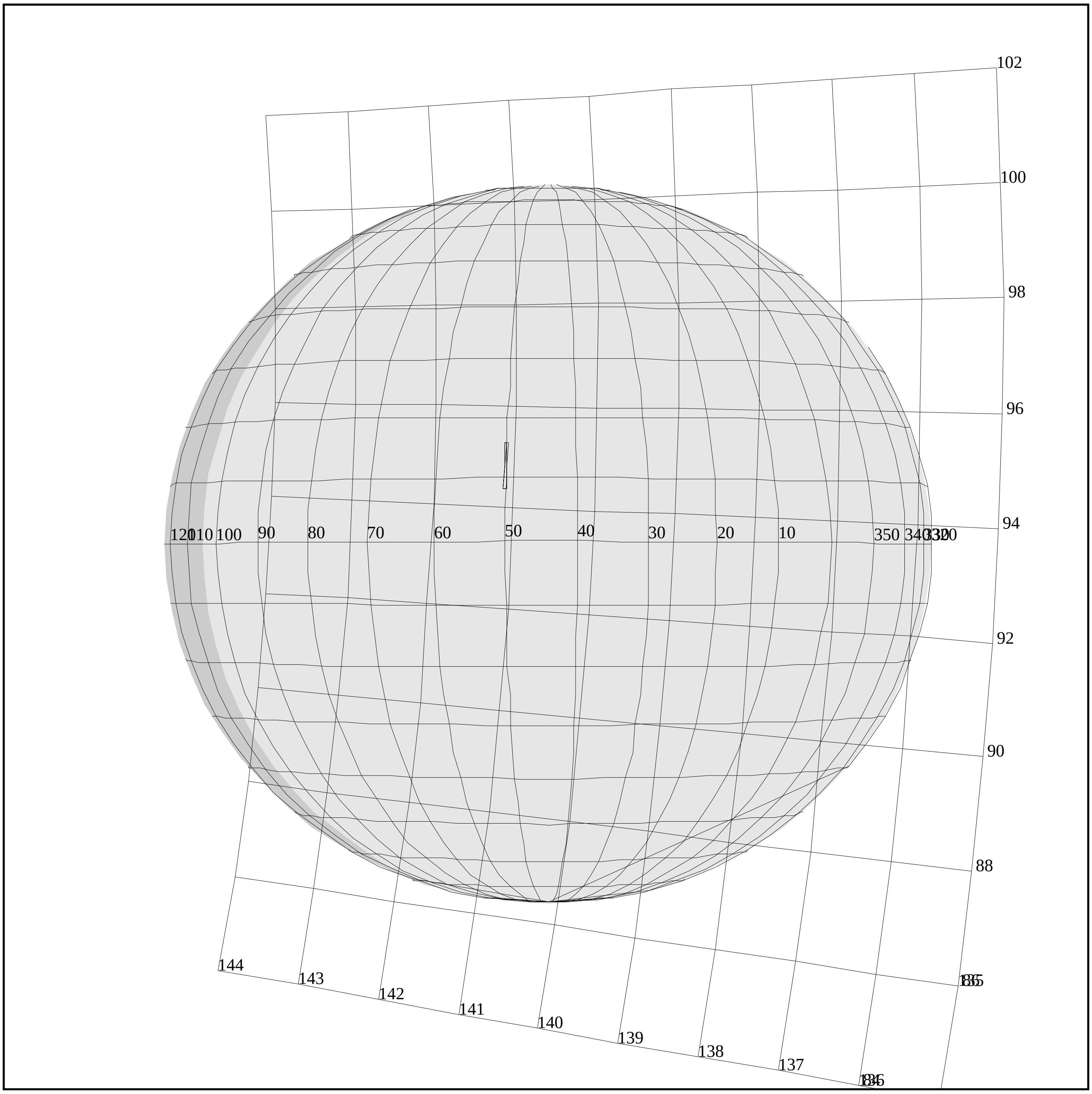
Data Returned

Design Detail

Short map, Nyquist-sampled observation of a 3*1 (30*10 mrad) scan of the Northern Tropical Zone hopefully, encompassing the Brown Barge feature.
S/C distance about 0.81 million KM, NIMS IFOV (NIMSEL) = 405 KM;
3*1 mosaic covers 24300*8100 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks.
Two rims reserved for targetting. This observation referenced to EPOCH JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form 03/17/97 17:37:32 rev 6/95



165FT:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7987 TC= 1(12 50)
A= 364 pD= 0 SR=17.450 RA50=276.57 DEC50=-23.85 cone=141.12 clock= 94.82

G7JNRTHOTS01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNRTHOTS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JTB 97-093/22:40:38.400 -CDS 38:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:G7JNRTHOTS01 **DESCRIP:NIMS_JUPITER_HOTMAP_OBSERVATION**

Jupiter Hotspot Real-Time Observation		ACTIVITY ID:	G7JNRTHOTS01-
		START TIME:	97-093/21:59:51.734

Activity ID: Orbit G7 Target J Inst N OAPEL RTHOTS SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	04/03/97	Week	14

Start	JTB-CDS	00000040:30:0	97-093/21:59:51.734	JTB-000/00:40:46.666
End	JTB-CDS	00000035:00:0	97-093/22:05:15.067	JTB-000/00:35:23.333
Duration		00000005:30:0	000/00:05:23.333	000/00:05:23.333

Top Label	G7JNRTHOTS01-
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

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

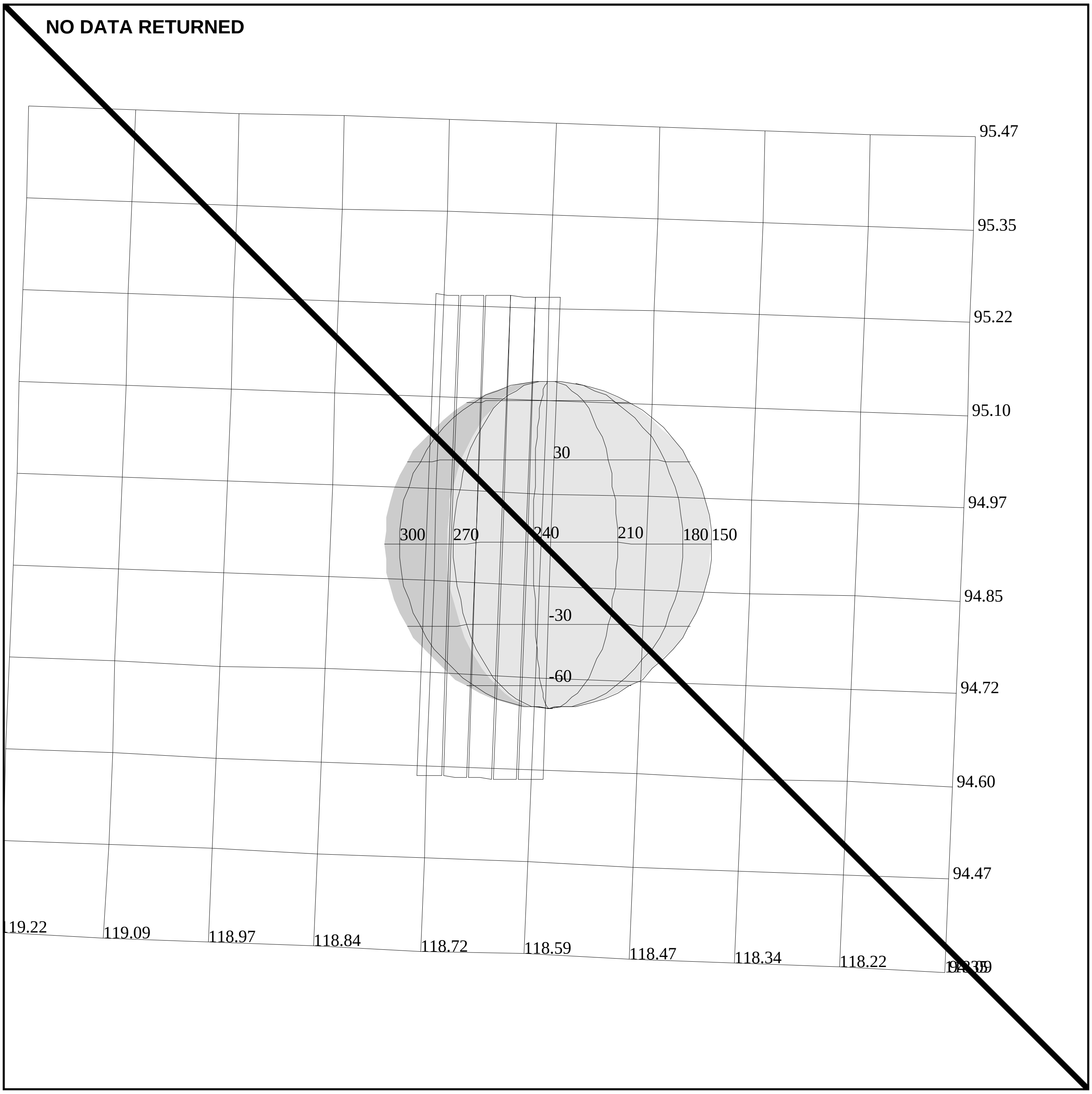
Data Returned

Design Detail

Long map real-time 1-rim spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 210 degrees West longitude, 6.5 degrees North latitude.
Acquired near the cental meridian at approximately 42 degrees phase angle.
Spatial resolution: 500 km/pixel.
CDS 02:70:0 used for targetting.

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

Galileo Activity Plan Form   03/17/97 17:37:32   rev 6/95



165DY:TT= 0 TMC= 1 C= 3.80 XC= 0.00 BS= 0/3811 TC= 3
A= 728 pD= 0 SR=17.450 RA50=252.04 DEC50=-23.93 cone=118.72 clock= 94.91
117DY:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3811
1:#s= 1 Cs= -2.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G7INVOLCAN03

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 +CDS 82:00:0

OBSERVATION:G7INVOLCAN03

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Volcan 03

MONITORING OF SELECTED VOLCANIC REGIONS	ACTIVITY ID: G7INVOLCAN03- START TIME: 97-093/22:29:31.066

Activity ID: Orbit G7 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 04/03/97	Week 14

Start	IEE+CDS	00000077:00:0	97-093/22:29:31.066	IEE+000/01:17:51.333
End	IEE+CDS	00000084:00:0	97-093/22:36:35.733	IEE+000/01:24:56.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label   G7INVOLCAN03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	149	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, 12 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, G7ILMDK244B, G7ILMDK102B

Galileo Activity Plan Form   03/17/97 17:37:32   rev 6/95

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NIMS Software Load	ACTIVITY ID: G7NNNIMSLD04- START TIME: 97-093/22:36:35.733

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 04 -

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

Time System CDS Load ID Calendar Date 04/03/97 Week 14

Start	IEE+CDS	00000084:00:0	97-093/22:36:35.733	IEE+000/01:24:56.000
End	IEE+CDS	00000093:00:0	97-093/22:45:41.733	IEE+000/01:34:02.000
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label G7NNNIMSLD04-
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.

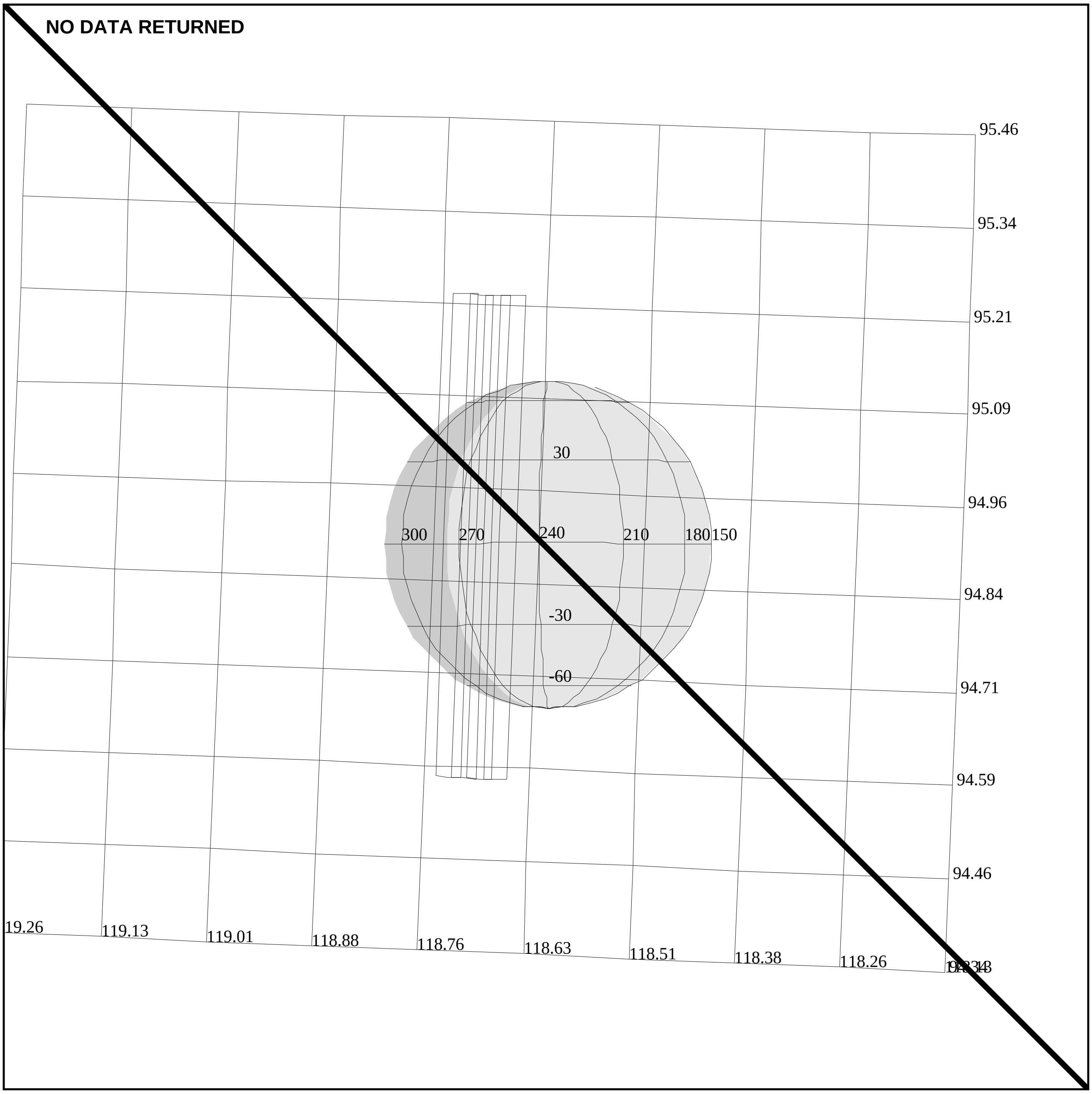
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:33 rev 6/95



165DZ:TT= 0 TMC= 1 C= 2.20 XC= 0.00 BS= 0/6541 TC= 3
A= 546 pD= 0 SR=17.450 RA50=251.98 DEC50=-23.93 cone=118.67 clock= 94.90
117DZ:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/6541
1:#s= 1 Cs= 1.15 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

G7INVOLCAN04

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 +CDS 97:00:0

OBSERVATION:G7INVOLCAN04

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Volcan 04

MONITORING OF SELECTED VOLCANIC REGIONS	ACTIVITY ID:	G7INVOLCAN04-
	START TIME:	97-093/22:45:41.733

Activity ID: Orbit G7 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 04/03/97	Week 14

Start	IEE+CDS	00000093:00:0	97-093/22:45:41.733	IEE+000/01:34:02.000
End	IEE+CDS	00000098:00:0	97-093/22:50:45.066	IEE+000/01:39:05.333
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label	G7INVOLCAN04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	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

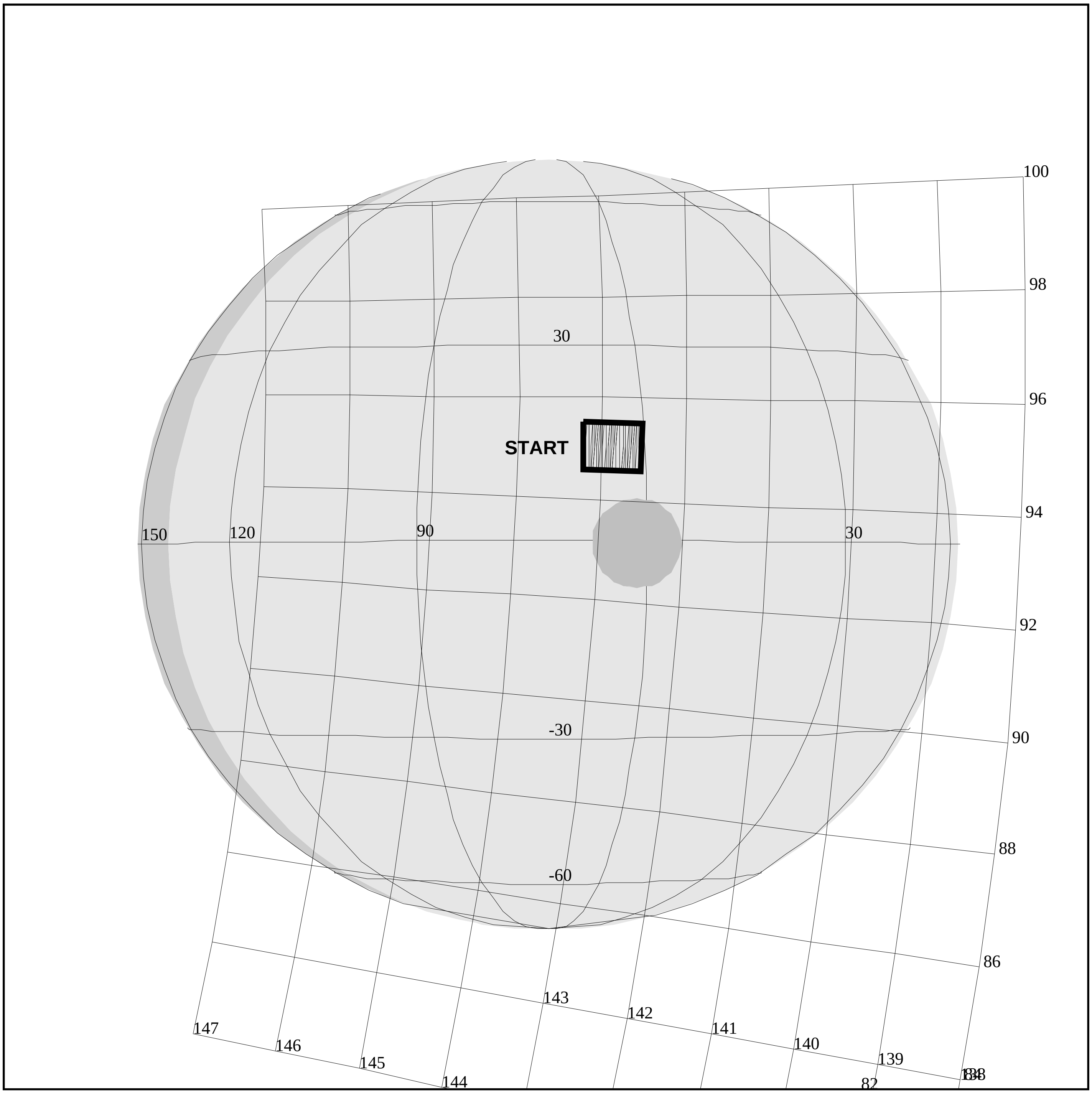
Design Detail

Long Map, 12 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, G7ILMDK244B, G7ILMDK102B

Galileo Activity Plan Form   03/17/97 17:37:33   rev 6/95



165DO:TT= 0 TMC= 1 C= 5.70 XC= 0.00 BS= 0/7451 TC= 1(14 65)
A= 546 pD= 0 SR=17.450 RA50=278.83 DEC50=-23.50 cone=143.21 clock= 95.05
117DO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7451
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

G7JNFEASUB01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 14:00:0

OBSERVATION:G7JNFEASUB01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_CAMP_FEAT_SUB_SPECTRA

Jupiter Campaign Feature sub-spectra		ACTIVITY ID:	G7JNFEASUB01-
		START TIME:	97-093/22:50:45.066

Activity ID: Orbit G7 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	AWG

Time System	CDS	Load ID		Calendar Date	04/03/97	Week	14

Start	JTB+CDS	10:00:0	97-093/22:50:45.066	JTB+000/00:10:06.666
End	JTB+CDS	00000020:00:0	97-093/23:00:51.733	JTB+000/00:20:13.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   G7JNFEASUB01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution map of North Tropical Zone campaign feature (14 degrees north planetographic, 65 degrees west) acquired in several CH_4 and H_2 absorption features. This single partial-spectra map obtained under good lighting conditions (~22 degrees solar incidence angle, ~18 degrees emission angle). During this phase angle of about ~28 degrees rotation, Jupiter imaged in 80 colors distributed among five spectral regions, using NIMS downlink wavelength table JSB80A.
Original Times: Start CDS = 986:04 End CDS = 976:05 Duration = 10:02

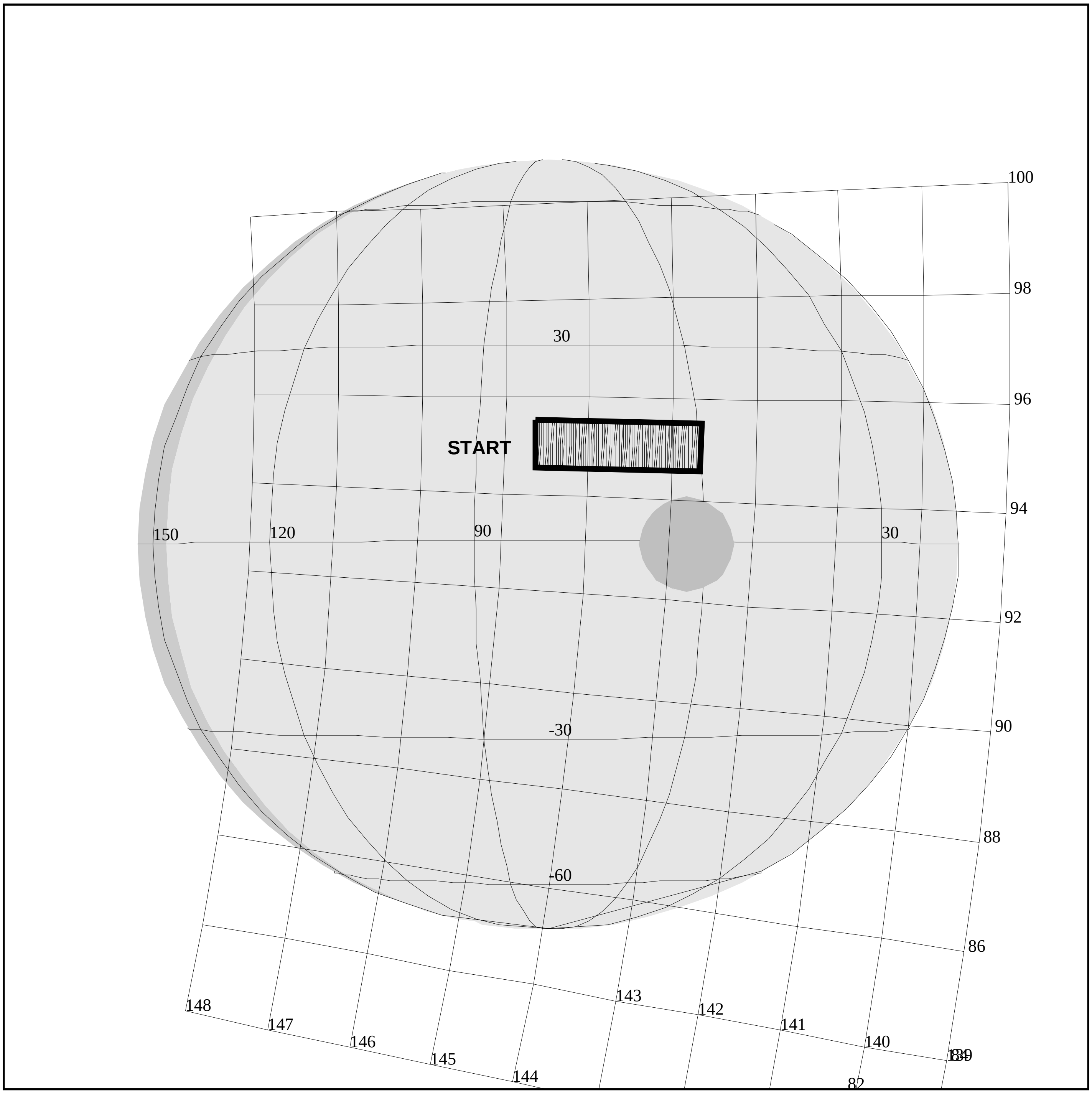
Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the North Tropical Zone campaign feature at 14 degrees north, 65 degrees west.
S/C distance about 0.77 million KM. NIMS IFOV = 385 KM.
Map covers 7700*7700 km. About 6 minutes of scanning accumulating 0.36255 MBTG and using 0.01209 tracks.
Four rims reserved for targetting.
This observation referenced to EPOCH JTB.
NOTE 2/17/97: To meet new downlink budget, playback time reduced to 320 seconds from 364 seconds.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7JSB253A, G7JSB80A

Galileo Activity Plan Form   03/17/97 17:37:33   rev 6/95



165DP:TT= 0 TMC= 1 C= 26.50 XC= 0.00 BS= 0/9999 TC= 1(14 65)
A= 728 pD= 0 SR=17.450 RA50=280.36 DEC50=-23.34 cone=144.63 clock= 95.05
117DP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9999
1:#s= 1 Cs= -32.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNFEAP4102

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEAP4102

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 28:00:0

OBSERVATION:G7JNFEAP4102

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FTR/PRTL_TRK_41_PHASE_02

Jupiter Ftr and Prtl Trk 41 deg part 2   ACTIVITY ID: G7JNFEAP4102-
START TIME: 97-093/23:03:53.733

Activity ID: Orbit G7 Target J Inst N OAPEL FEAP41 SeqNo 02 -

Title	Jupiter Ftr and Prtl Trk 41 deg part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS   Load ID   Calendar Date 04/03/97 Week 14

Start	JTB+CDS	00000023:00:0	97-093/23:03:53.733	JTB+000/00:23:15.333
End	JTB+CDS	00000033:00:0	97-093/23:14:00.400	JTB+000/00:33:22.000
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   G7JNFEAP4102-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	168	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the North Tropical Zone feature track, centered at 14 degrees north, 65 degrees west. Also the second of 4 OAPELs constituting the partial feature track covering additional territory near (hopefully) the Brown Barge. For the primary feature this is the second observation obtained on a rotation with phase angle approximately 28 degrees. For the surrounding territory, this is the second observation at this phase angle. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum airmass.
Original Times: Start CDS = 972:03 End CDS   = 959:46 Duration = 12:48

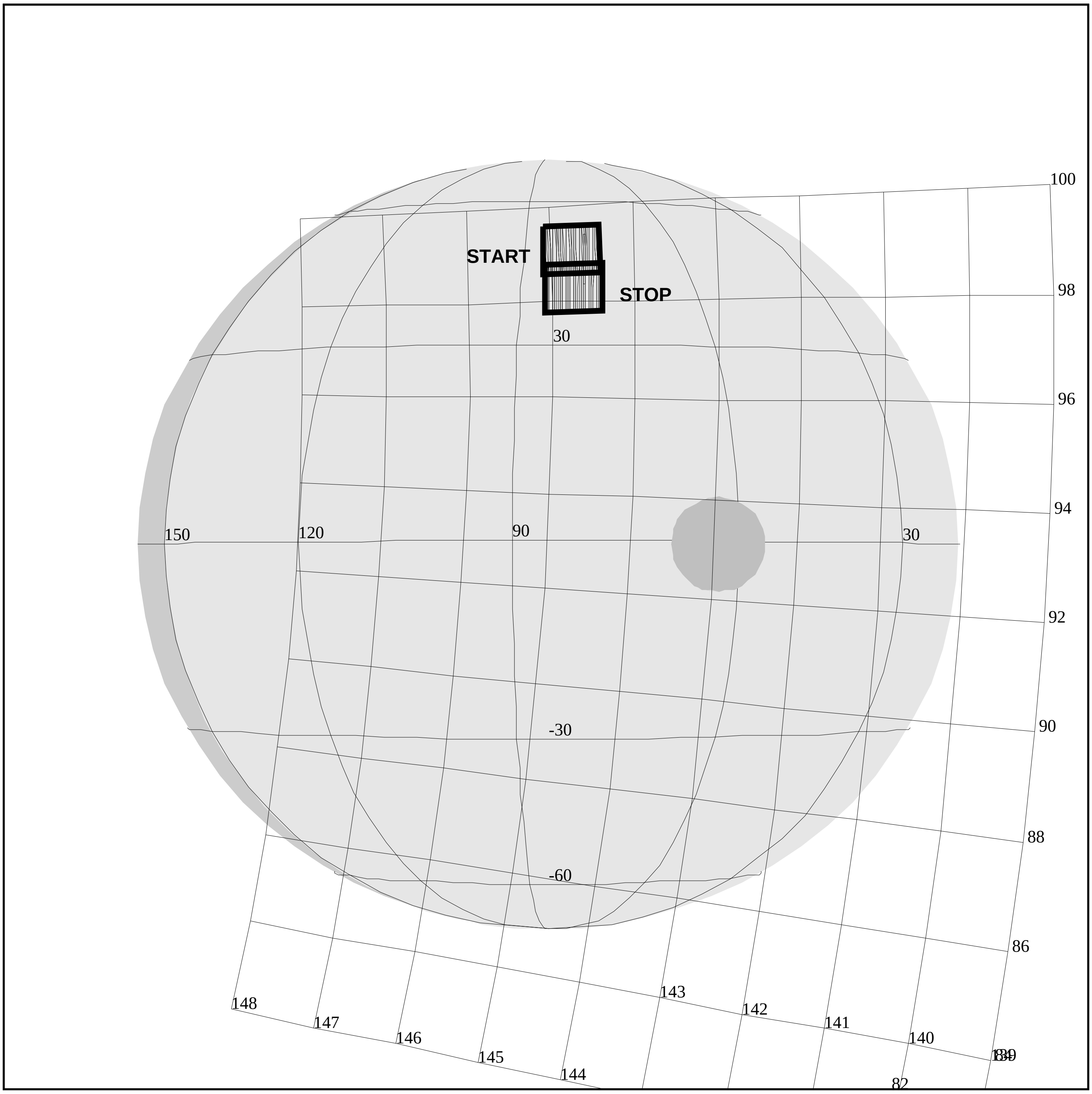
Data Returned

Design Detail

Short map, Nyquist-sampled observation of a 3*1 (30*10 mrad) scan of the Northern Tropical Zone encompassing (hopefully) the Brown Barge feature.
S/C distance about 0.77 million KM, NIMS IFOV (NIMSEL) = 385 KM;
3*1 mosaic covers 23100*7700 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 25 colors, and using 0.01008 tracks.
Four rims reserved for targetting.
This observation referenced to EPOCH JTB.
NOTE 2/17/97: To meet downlink budget, number of colors cut back to 4.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form   03/17/97 17:37:33   rev 6/95



165DQ:TT= 0 TMC= 1 C= 6.00 XC= 3.00 BS= 0/1637 TC= 1(45 81)
A= 546 pD= 0 SR=17.450 RA50=280.63 DEC50=-20.98 cone=145.09 clock= 99.10
117DQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1637
1:#s= 2 Cs= -10.80 XCs= 0.00 Cr= 11.20 XCr= -8.00 sD= 300 rD= 40

G7JNPFTB4101

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNPFTB4101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 37:00:0

OBSERVATION:G7JNPFTB4101

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_PART_FT_B_41_DEG_01

Jupiter Partial Ftr. Trk. B 41 deg prt 1	ACTIVITY ID: G7JNPFTB4101- START TIME: 97-093/23:14:47.733

Activity ID: Orbit G7 Target J Inst N OAPEL PFTB41 SeqNo 01 -

Title	Jupiter Partial Ftr. Trk. B 41 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID Calendar Date 04/03/97 Week 14

Start	JTB+CDS 00000033:71:0	97-093/23:14:47.733	JTB+000/00:34:09.333
End	JTB+CDS 00000040:76:0	97-093/23:21:55.733	JTB+000/00:41:17.333
Duration	00000007:05:0	000/00:07:08.000	000/00:07:08.000

Top Label G7JNPFTB4101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the partial feature track B of one of two Little Red Spots near 43 degrees north. This is the first observation obtained on a rotation with phase angle approximately 28 degrees.
Feature B imaged in 25 colors, using NIMS downlink wavelength table JFT25A.
This observation acquired with feature B near minimum air mass, assuming feature coordinates 43 degrees north latitude (planetographic) and 65 degrees west longitude (System III).
Note: 1/16/97: Little Red Spot (LRS) feature predicted to be near 65 degree according to NASA/IRTF observation.
NOTE 2/25/97: Recent IRTF observations now predict LRS at 81 degrees West lon
Observation re-targetted accordingly.

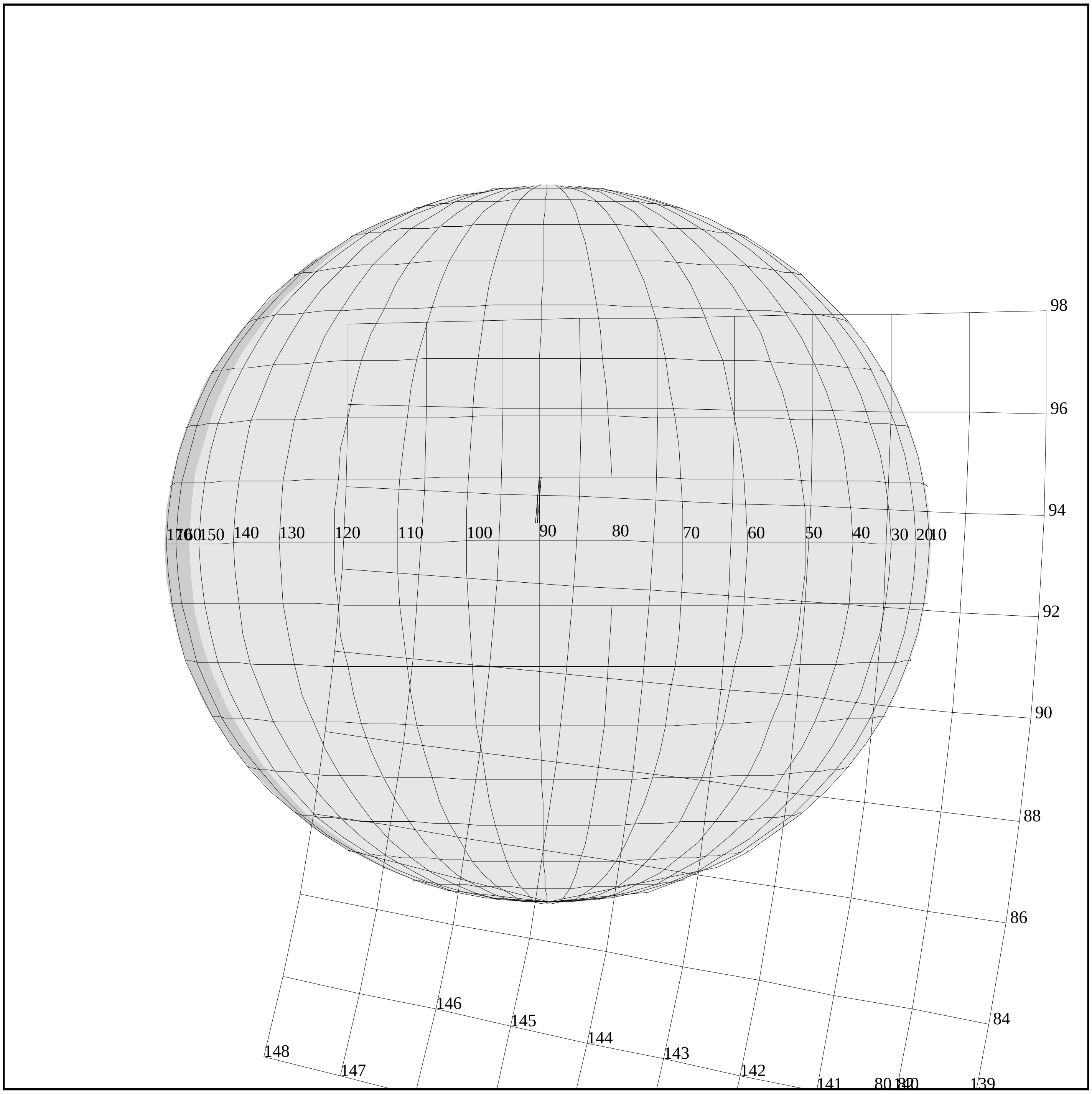
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 43 degree north latitude, 65 degrees west longitude. S/C distance about 0.79 million KM, NIMS IFOV (NIMSEL) = 395 KM; 1*2 mosaic covers 7900*14220 K with 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 25 colors, and using 0.00739 tracks. Three rims reserved for targetting.
This observation is referenced to EPOCH JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form 03/17/97 17:37:33 rev 6/95



165FW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2729 TC= 1(6.5 90)
A= 364 pD= 0 SR=17.450 RA50=281.41 DEC50=-23.89 cone=145.51 clock= 93.89

G7JNRTHOTS02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNRTHOTS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 43:00:0

OBSERVATION:G7JNRTHOTS02

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:NIMS_JUPITER_HOTMAP_OBSERVATION

Jupiter Real-Time Observation	ACTIVITY ID: G7JNRTHOTS02- START TIME: 97-093/23:21:56.400

Activity ID: Orbit G7 Target J Inst N OAPEL RTHOTS SeqNo 02 -

Title	Jupiter Real-Time Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/03/97	Week 14

Start	JTB+CDS	00000040:77:0	97-093/23:21:56.400	JTB+000/00:41:18.000
End	JTB+CDS	00000047:00:0	97-093/23:28:09.733	JTB+000/00:47:31.333
Duration		00000006:14:0	000/00:06:13.333	000/00:06:13.333

Top Label G7JNRTHOTS02-
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

Long map 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: 210 degrees West longitude, 6.5 degrees North latitude.
Acquired near the cental meridian at approximately 42 degrees phase angle.
Spatial resolution: 500 km/pixel.
CDS 02:70:0 used for targetting.

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

Galileo Activity Plan Form 03/17/97 17:37:33 rev 6/95

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NIMS Software Reload — ACTIVITY ID: G7NNNIMSLD05- — START TIME: 97-094/00:10:37.733

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 05 -

Title	NIMS Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/A. Ocampo	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTB+CDS	00000089:00:0	97-094/00:10:37.733	JTB+000/01:29:59.333
End	JTB+CDS	00000099:00:0	97-094/00:20:44.400	JTB+000/01:40:06.000
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7NNNIMSLD05-
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

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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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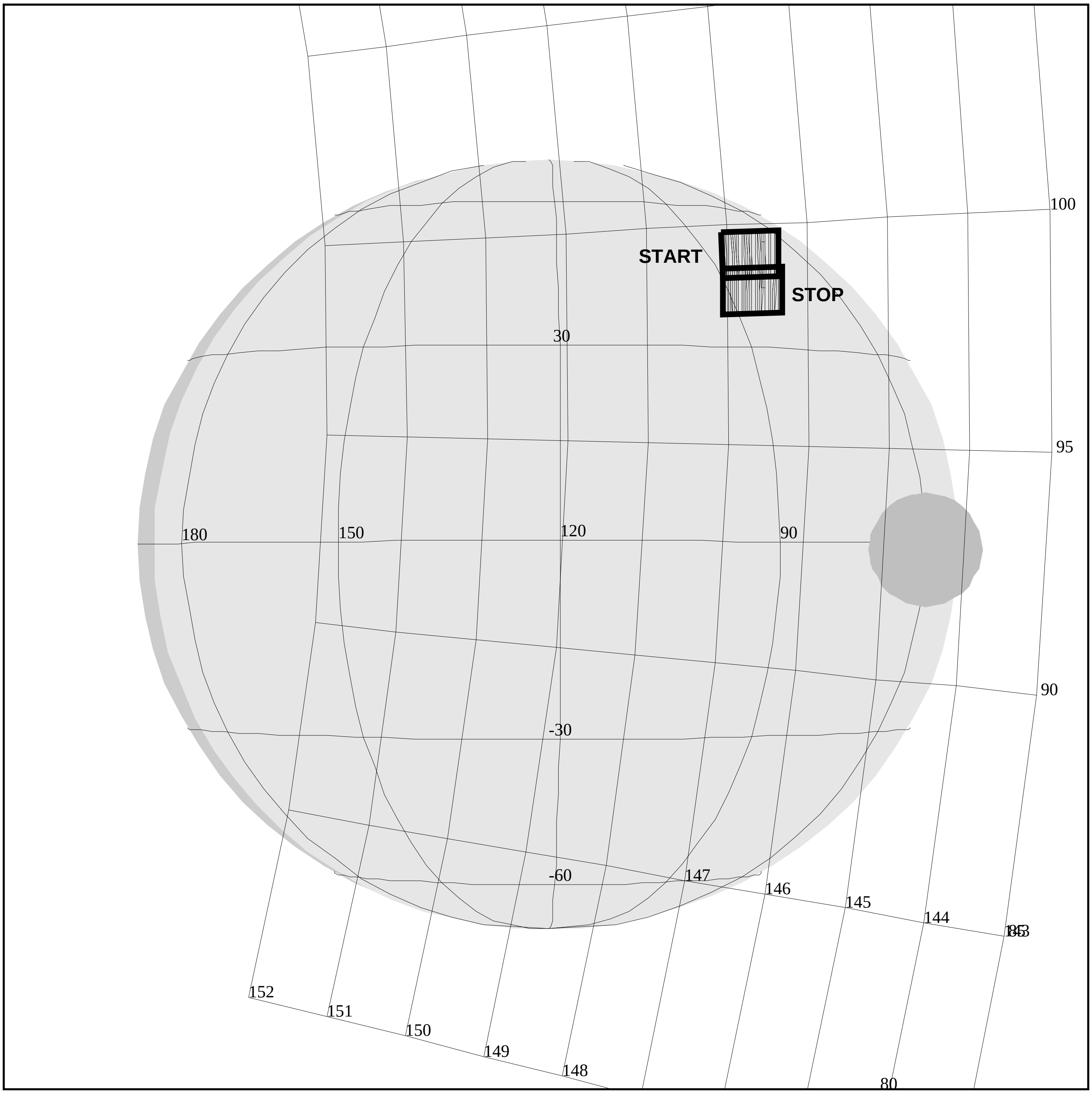


165DR:TT= 0 TMC= 1 C= 6.50 XC= 3.00 BS= 0/3649 TC= 1(45 81)
A= 546 pD= 0 SR=17.450 RA50=282.73 DEC50=-20.72 cone=147.07 clock= 99.33
117DR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3649
1:#s= 2 Cs= -10.80 XCs= 0.00 Cr= 11.50 XCr= -8.00 sD= 300 rD= 40

G7JNPFTB4102

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNPFTB4102

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 103:00:0

OBSERVATION:G7JNPFTB4102

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_PART_FT_B_41_DEG_02

Jupiter Partial Ftr Trk B 41 deg prt 2	ACTIVITY ID: G7JNPFTB4102- START TIME: 97-094/00:20:44.400

Activity ID: Orbit G7 Target J Inst N OAPEL PFTB41 SeqNo 02 -

Title	Jupiter Partial Ftr Trk B 41 deg prt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week 14

Start	JTB+CDS	00000099:00:0	97-094/00:20:44.400	JTB+000/01:40:06.000
End	JTB+CDS	00000108:00:0	97-094/00:29:50.400	JTB+000/01:49:12.000
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	G7JNPFTB4102-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the partial feature track B of one of two Little Red Spots near 43 degrees north. This is the second observation obtained on a rotation with phase angle approximately 28 degrees.
Feature imaged in 25 colors, using NIMS downlink wavelength table JFT25A.
This observation acquired with feature B near 57 degrees relative longitude, assuming feature coordinates 43 degrees north latitude and 65 degrees West longitude (System III).
NOTE 2/17/97: Colors cut back to 4 to meet downlink budget.

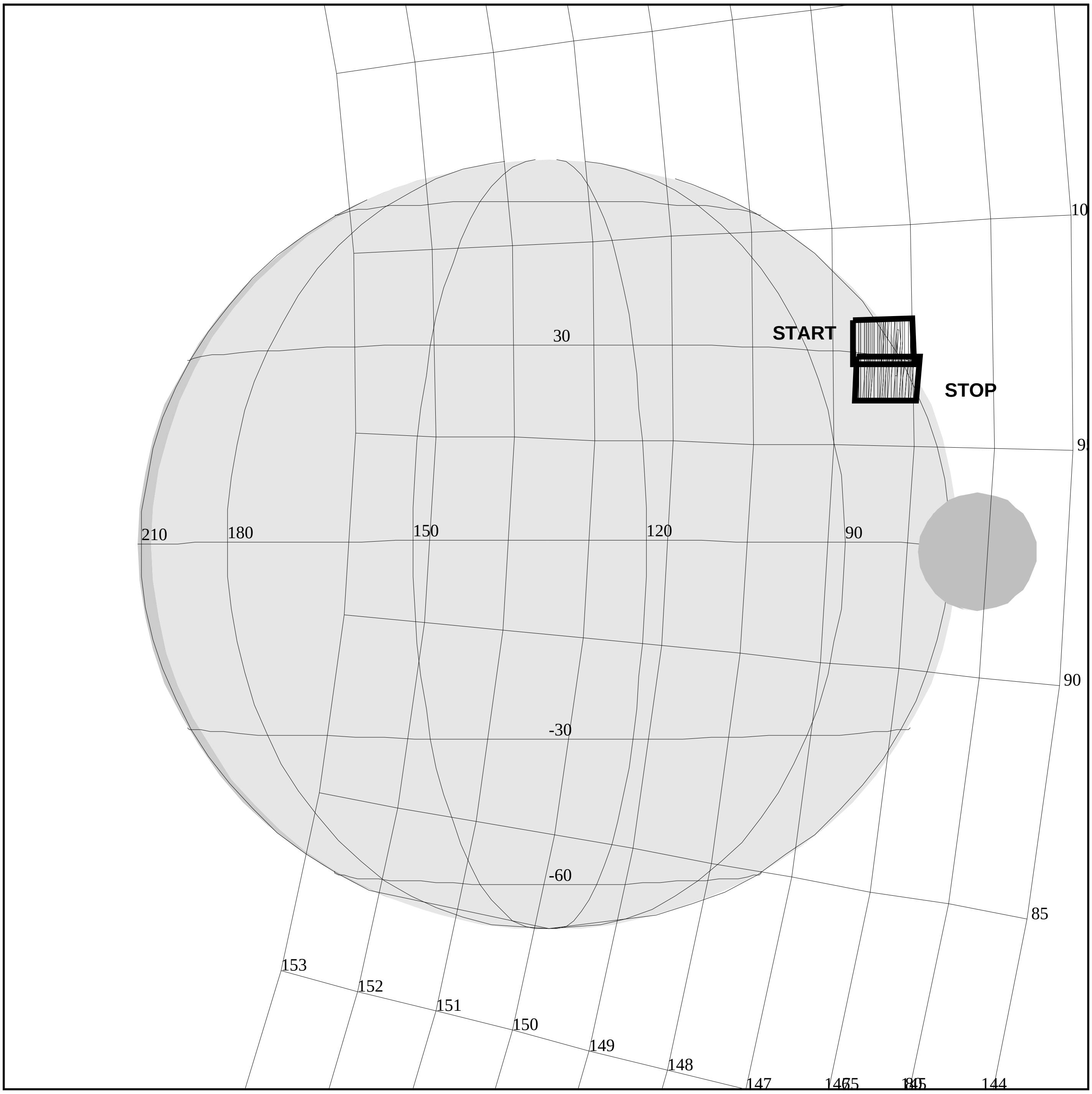
NOTE 2/25/97: Recent IRTF observations now predict LRS at 81 degrees West longitude. Observations re-targetted accordingly.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 43 degree north latitude, 65 degrees west longitude. S/C distance about 0.78 million KM, NIMS IFOV (NIMSEL) = 390 KM; 1*2 mosaic covers 7800*14040 K with 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 25 colors, and using 0.0073 tracks. Three rims reserved for targetting.
This observation is tied to EPOCH JTB.
NOTE 2/17/97: Colors cut back to meet downlink budget.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B



165DT:TT= 0 TMC= 1 C= 9.00 XC= 3.00 BS= 0/7289 TC= 1(30 65)
A= 546 pD= 0 SR=17.450 RA50=282.49 DEC50=-21.82 cone=146.75 clock= 97.37
117DT:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7289
1:#s= 2 Cs= -10.80 XCs= 0.00 Cr= 11.40 XCr= -8.00 sD= 300 rD= 40

G7JNPFTD4101

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNPFTD4101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 123:00:0

OBSERVATION:G7JNPFTD4101

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_PART_FT_B_41_DEG_03

Jupiter Partial Ftr Trk D 41 deg prt 1	ACTIVITY ID:	G7JNPFTD4101-
	START TIME:	97-094/00:40:57.733

Activity ID: Orbit G7 Target J Inst N OAPEL PFTD41 SeqNo 01 -

Title	Jupiter Partial Ftr Trk D 41 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTB+CDS	00000119:00:0	97-094/00:40:57.733	JTB+000/02:00:19.333
End	JTB+CDS	00000128:00:0	97-094/00:50:03.733	JTB+000/02:09:25.333
Duration		00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label G7JNPFTD4101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

The only OAPEL remaining constituting the partial feature track D of a mid-latitude area near 30 degrees north. This is the first and only observation obtained on a rotation with phase angle approximately 28 degrees. Feature D imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature D near 75 degrees relative longitude, assuming feature coordinates 30 degrees north latitude and 65 degrees west longitude (System III).

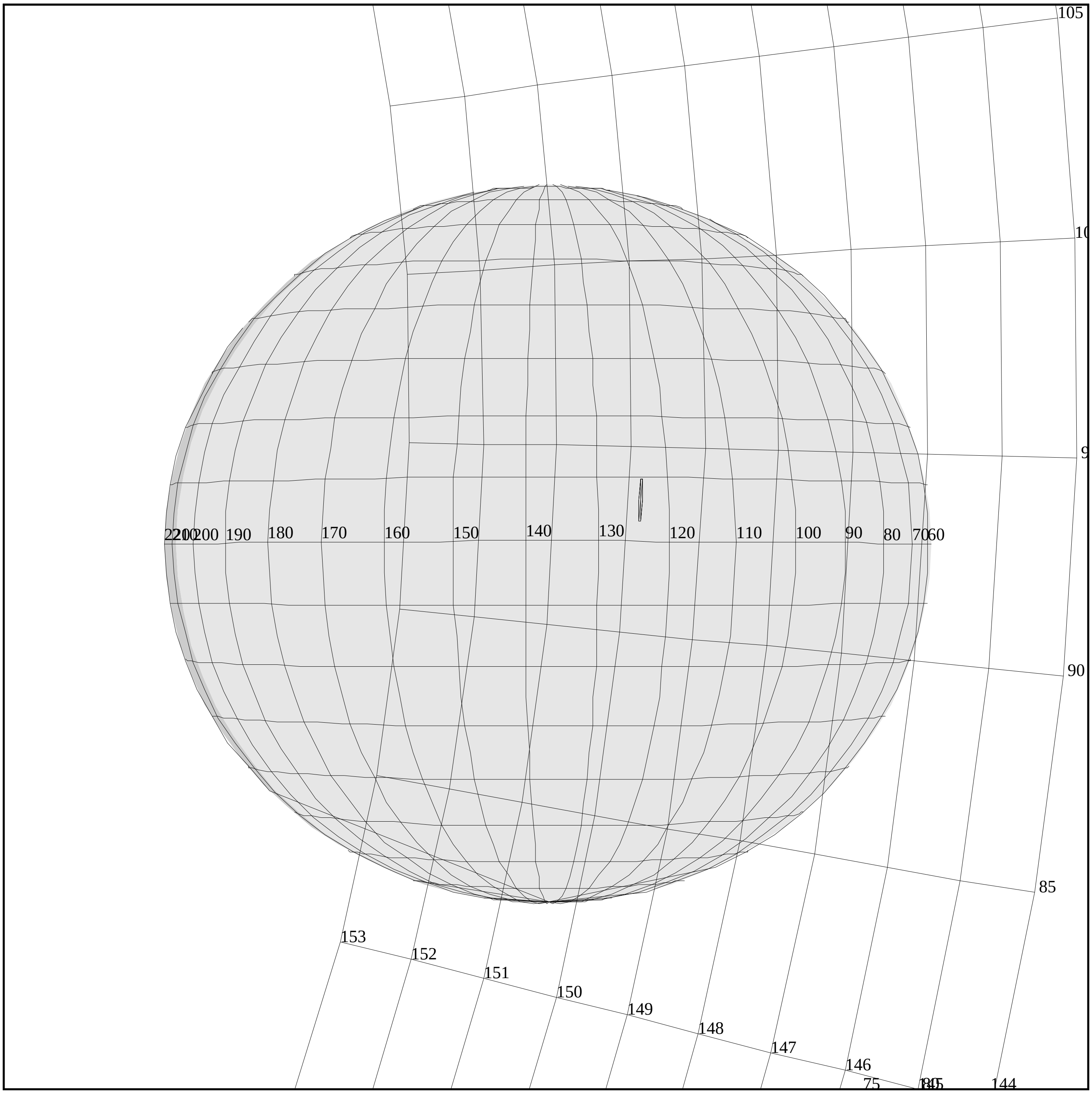
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 28 degree north latitude, 65 degrees west longitude. S/C distance about 0.89 million KM, NIMS IFOV (NIMSEL) = 445 KM; 1*2 mosaic covers 8900*16020 K with 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 19 colors, and using 0.00739 tracks. Three rims reserved for targetting.
This observation is tie to epoch JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form 03/17/97 17:37:33 rev 6/95



165FY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8745 TC= 1(6.5 124)
A= 364 pD= 0 SR=17.450 RA50=286.12 DEC50=-23.35 cone=149.85 clock= 93.58

G7JNRTHOTS03

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNRTHOTS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 131:00:0

OBSERVATION:G7JNRTHOTS03

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:NIMS_JUPITER_HOTMAP_OBSERVATION

Jupiter Real-Time Observation	ACTIVITY ID: G7JNRTHOTS03- START TIME: 97-094/00:50:51.066

Activity ID: Orbit G7 Target J Inst N OAPEL RTHOTS SeqNo 03 -

Title	Jupiter Real-Time Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week	14

Start	JTB+CDS	00000128:71:0	97-094/00:50:51.066	JTB+000/02:10:12.666
End	JTB+CDS	00000134:00:0	97-094/00:56:07.733	JTB+000/02:15:29.333
Duration		00000005:20:0	000/00:05:16.667	000/00:05:16.667

Top Label G7JNRTHOTS03-
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

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

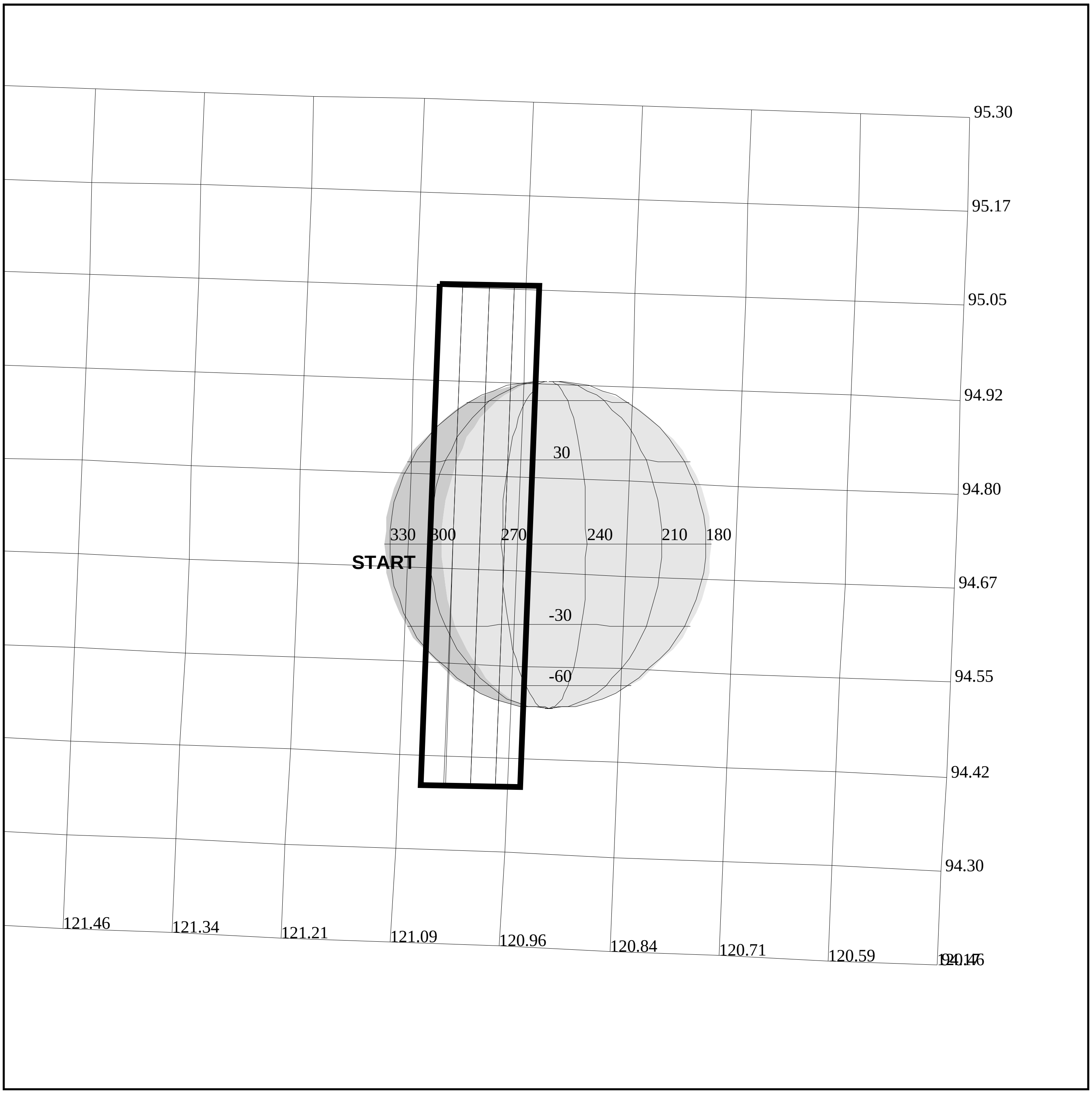
Data Returned

Design Detail

Long map real-time 1-rim spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 210 degrees West longitude, 6.5 degrees North latitude.
Acquired near the cental meridian at approximately 42 degrees phase angle.
Spatial resolution: 500 km/pixel.
CDS 02:70:0 used for targetting.

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

Galileo Activity Plan Form 03/17/97 17:37:33 rev 6/95



165EA:TT= 0 TMC= 1 C= 3.40 XC= 0.00 BS= 0/0565 TC= 3
A= 728 pD= 182 SR=17.450 RA50=254.58 DEC50=-24.26 cone=121.06 clock= 94.72
117EA:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/0565
1:#s= 1 Cs= -1.15 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

G7INVOLCAN05

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INVOLCAN05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 +CDS 229:00:0

OBSERVATION:G7INVOLCAN05

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 182 S= 0.300

DESCRIP:Io Volcan 05

MONITORING OF SELECTED VOLCANIC REGIONS **ACTIVITY ID: G7INVOLCAN05-**
START TIME: 97-094/00:58:09.066

Activity ID: Orbit G7 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 04/04/97	Week 14

Start	IEE+CDS	00000224:00:0	97-094/00:58:09.066	IEE+000/03:46:29.333
End	IEE+CDS	00000231:00:0	97-094/01:05:13.733	IEE+000/03:53:34.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G7INVOLCAN05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	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

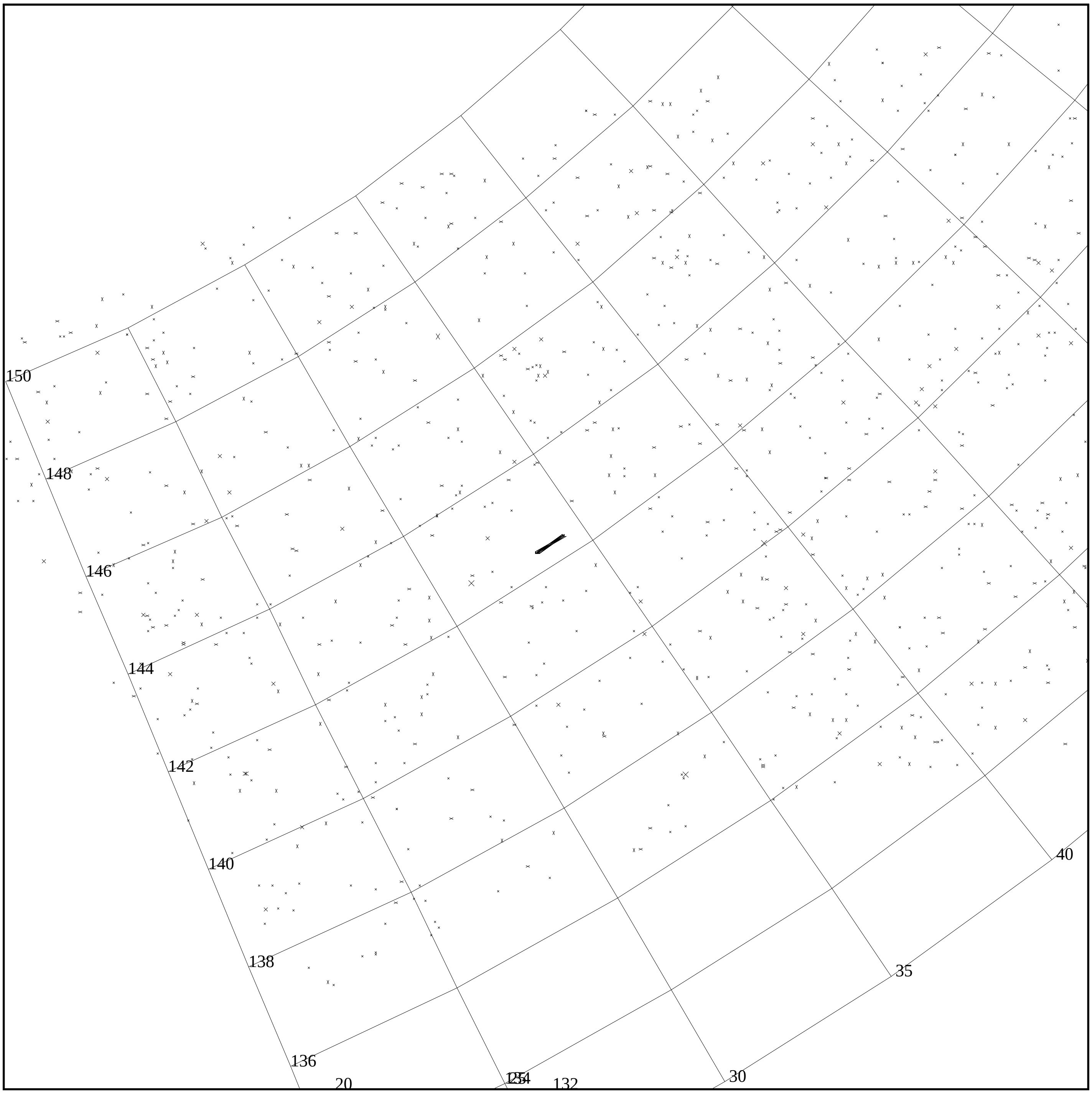
Design Detail

Long Map, 12 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, MPW, G7ILM42, G7ILM216B

Galileo Activity Plan Form 03/17/97 17:37:34 rev 6/95



165DS:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2749 TC=15(-51.92 307.48)
A= 728 pD= 0 SR=17.450 RA50=307.48 DEC50=-51.92 cone=142.42 clock= 33.78

G7HNDARK__02

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 +CDS 241:00:0

OBSERVATION:G7HNDARK__02

F_R_O_Z_E_N___T_M_C

THINNING:NIM 1

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

DESCRIP:NIMS Dark Sky 02

Dark Observation		ACTIVITY ID:	G7HNDARK__02-
		START TIME:	97-094/01:10:17.066

Activity ID: Orbit G7 Target H Inst N OAPEL DARK__ SeqNo 02 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/J.HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week	14

Start	IEE+CDS	00000236:00:0	97-094/01:10:17.066	IEE+000/03:58:37.333
End	IEE+CDS	00000242:71:0	97-094/01:17:08.399	IEE+000/04:05:28.666
Duration		00000006:71:0	000/00:06:51.333	000/00:06:51.333

Top Label	G7HNDARK__02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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 G7 orbit for purposes of calibration.

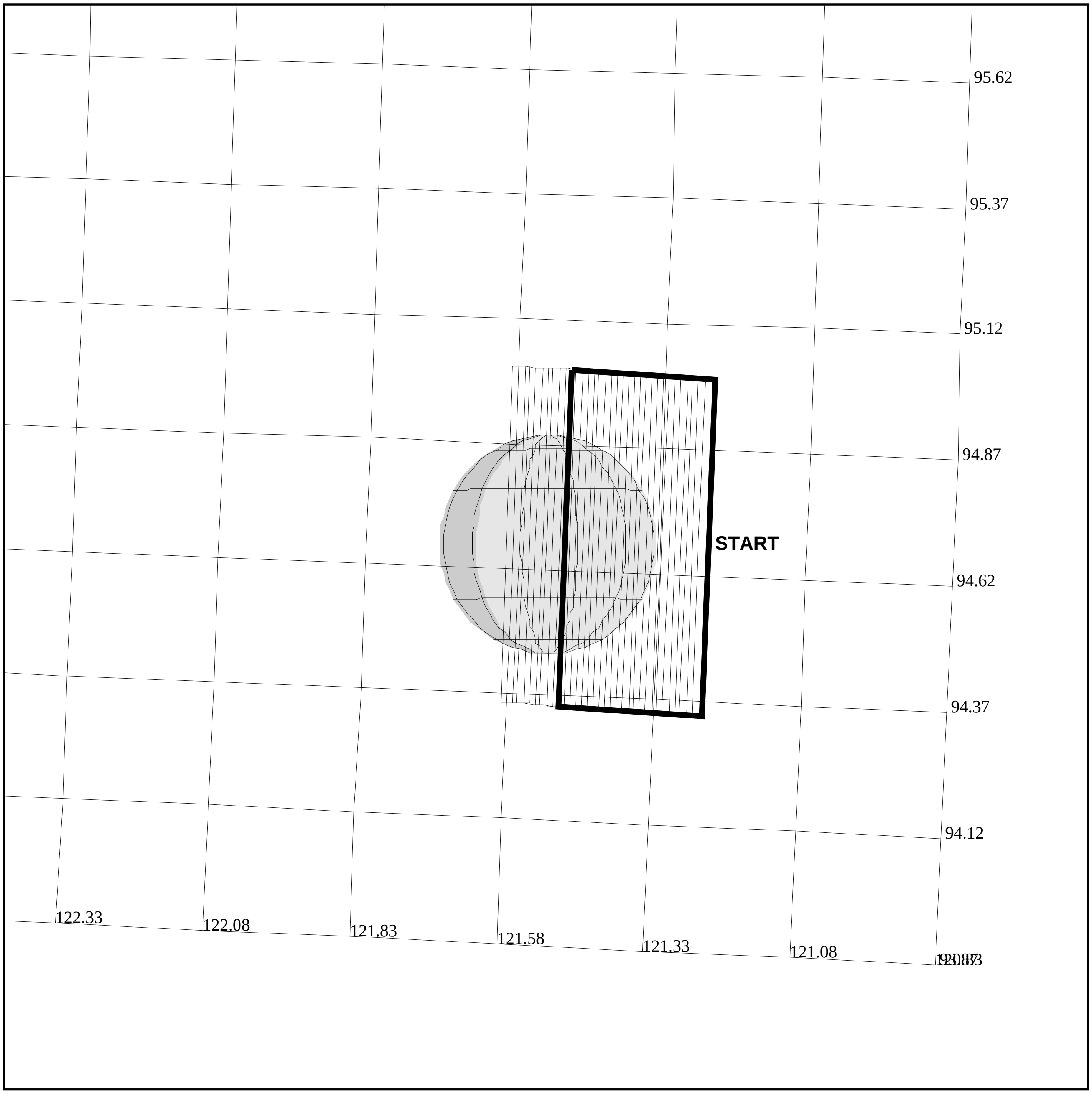
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim. Observation to be done in short-map mode, gain = 2, record mode = LPU, number of wavelengths = 51.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7DRK34, G7DRK32

Galileo Activity Plan Form 03/17/97 17:37:34 rev 6/95



165EB:TT=   0 TMC= 1 C=   -3.50 XC=   0.00 BS= 0/3841 TC= 3
A= 728 pD=   0 SR=17.450 RA50=254.79 DEC50=-24.31 cone=121.25 clock= 94.68
117EB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3841
1:#s= 1 Cs=   8.80 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   884 rD=   2

G7INCHEMIS04

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS04

TARGET BODY :   IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

F_R_O_Z_E_N___T_M_C

PERIAPSIS:

THINNING:NIM   2

START:IEE 97-093/21:11:39.733   +CDS 247:00:0

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

OBSERVATION:G7INCHEMIS04

DESCRIP:Io Dayside Monitoring 04

MONITORING OF IO'S DAYSIDE		ACTIVITY ID:	G7INCHEMIS04-
		START TIME:	97-094/01:17:15.066

Activity ID: Orbit G7 Target I Inst N OAPEL CHEMIS SeqNo 04 -

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	04/04/97 Week 14

Start	IEE+CDS	00000242:81:0	97-094/01:17:15.066	IEE+000/04:05:35.333
End	IEE+CDS	00000252:00:0	97-094/01:26:27.733	IEE+000/04:14:48.000
Duration		00000009:10:0	000/00:09:12.667	000/00:09:12.667

Top Label   G7INCHEMIS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	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

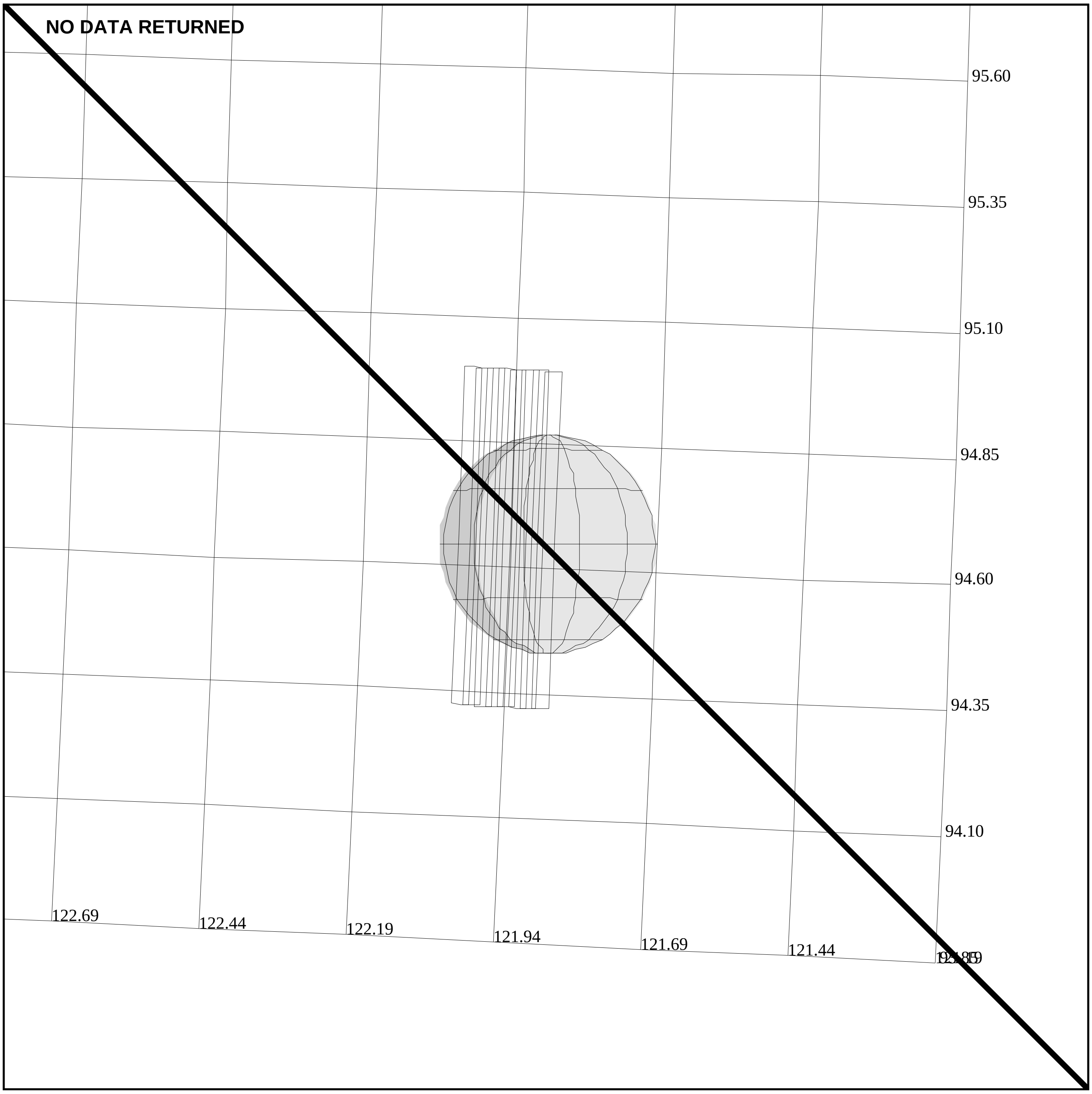
Design Detail

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, 102 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, G7ILM244B, G7ILM108

Galileo Activity Plan Form   03/17/97 17:37:34   rev 6/95



165EC:TT= 0 TMC= 1 C= 1.10 XC= 0.00 BS= 0/5661 TC= 3
A= 728 pD= 0 SR=17.450 RA50=255.47 DEC50=-24.36 cone=121.87 clock= 94.66
117EC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5661
1:#s= 1 Cs= 3.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 394 rD= 2

G7INTHRMAL05

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INTHRMAL05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 +CDS 257:00:0

OBSERVATION:G7INTHRMAL05

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Nightside Monitoring 05

MONITORING OF IO’S NIGHTSIDE	ACTIVITY ID: G7INTHRMAL05- START TIME: 97-094/01:27:21.733

Activity ID: Orbit G7 Target I Inst N OAPEL THRMAL SeqNo 05 -

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	04/04/97	Week	14

Start	IEE+CDS	00000252:81:0	97-094/01:27:21.733	IEE+000/04:15:42.000
End	IEE+CDS	00000260:00:0	97-094/01:34:33.066	IEE+000/04:22:53.333
Duration		00000007:10:0	000/00:07:11.333	000/00:07:11.333

Top Label   G7INTHRMAL05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	149	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: 102,
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, G7ILMDR244B, G7ILMDK102B

Galileo Activity Plan Form   03/17/97 17:37:34   rev 6/95

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NIMS Software Reload	ACTIVITY ID: G7NNNIMSLD06- START TIME: 97-094/01:44:39.733

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 06 -

Title	NIMS Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	EEE-CDS	00000251:00:0	97-094/01:44:39.733	EEE-000/04:13:47.333
End	EEE-CDS	00000241:00:0	97-094/01:54:46.400	EEE-000/04:03:40.666
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7NNNIMSLD06-
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.

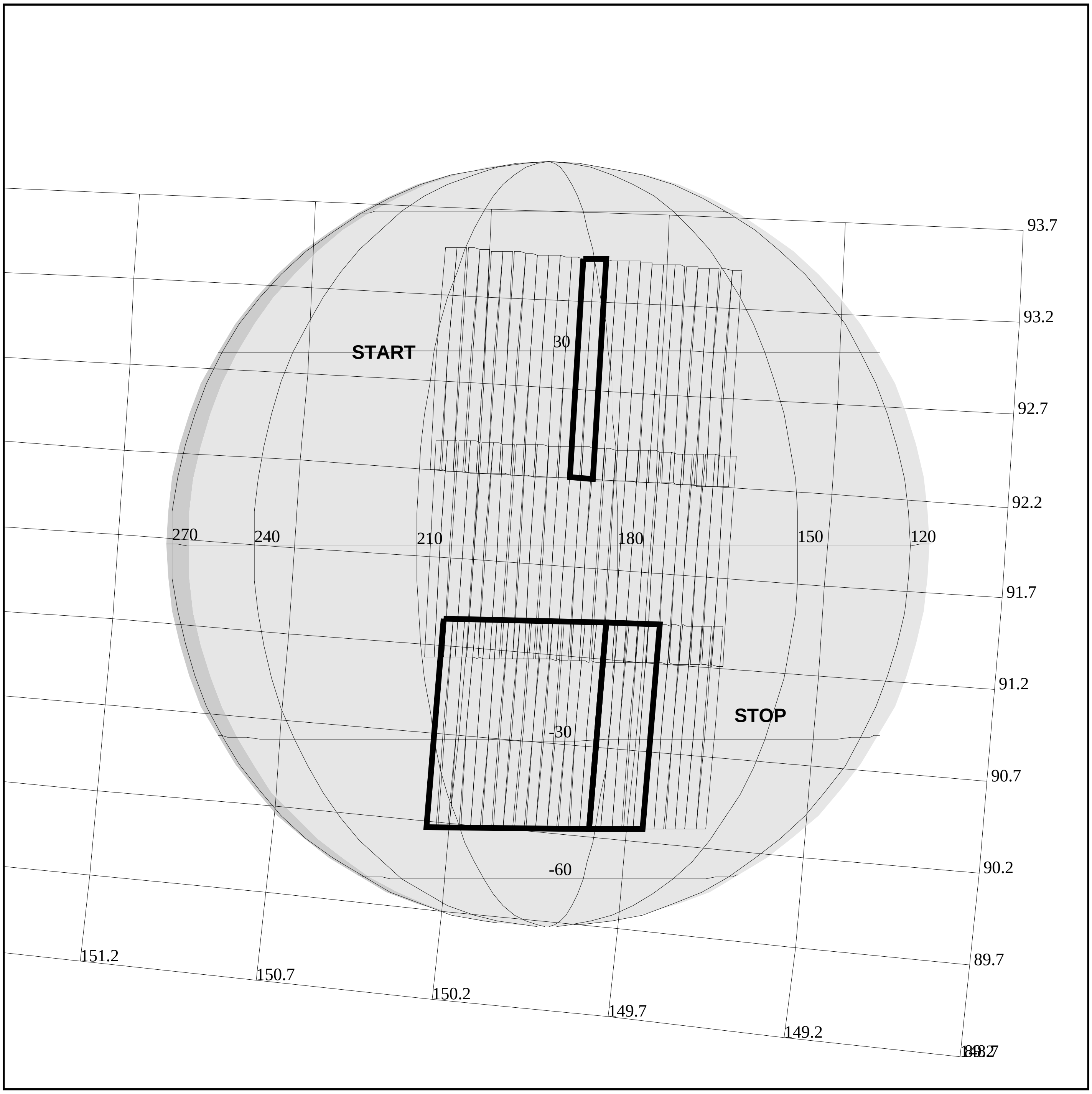
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:34 rev 6/95



165DX:TT= 0 TMC= 1 C= 5.00 XC= 8.00 BS= 0/0757 TC= 3
A= 728 pD= 4098 SR=17.450 RA50=285.00 DEC50=-23.84 cone=148.76 clock= 93.00
117DX:#SB= 1 OR= 0.030 RR= 6.000 BM=F RC= 1 BS= 0/0757
1:#s= 3 Cs= -13.47 XCs= 0.00 Cr= 13.40 XCr= -8.50 sD= 1352 rD= 20

G7ENFLEXUS01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7ENFLEXUS01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:EEE 97-094/05:58:27.066 -CDS 236:00:0

OBSERVATION:G7ENFLEXUS01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

BODY PLOT TIME:END-TIME D= 4098 S= 0.700

DESCRIP:EUROPA GLOBAL MOSAIC CAMPAIGN

Europa Global Mosaic Campaign ACTIVITY ID: G7ENFLEXUS01-
START TIME: 97-094/01:55:40.400

Activity ID: Orbit G7 Target E Inst N OAPEL FLEXUS SeqNo 01 -

Title	Europa Global Mosaic Campaign			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	EEE-CDS	00000240:10:0	97-094/01:55:40.400	EEE-000/04:02:46.666
End	EEE-CDS	00000213:00:0	97-094/02:23:05.066	EEE-000/03:35:22.000
Duration		00000027:10:0	000/00:27:24.666	000/00:27:24.666

Top Label G7ENFLEXUS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	122	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part of Global Mosaic Campaign of Europa at a resolution of approximately 80 km/NIMSel. This spectral map of Europa will cover 120-210 degrees west longitude. To search for mineralogical differences and their relationships to the Linea terrain. The Mosaic will be centered around the Flexus Linea region.

Data Returned

Design Detail

Distance: 160,000 KM
Gain: 2
Long Span: 120-210 deg
LAT Span: N/S 90 deg
Coverage: 70
Sub S/C: -0.4 deg
TLM: LPU
Sub S/C 181 deg Resolution: 80 KM/PX
Area coverage in PIX: 1986

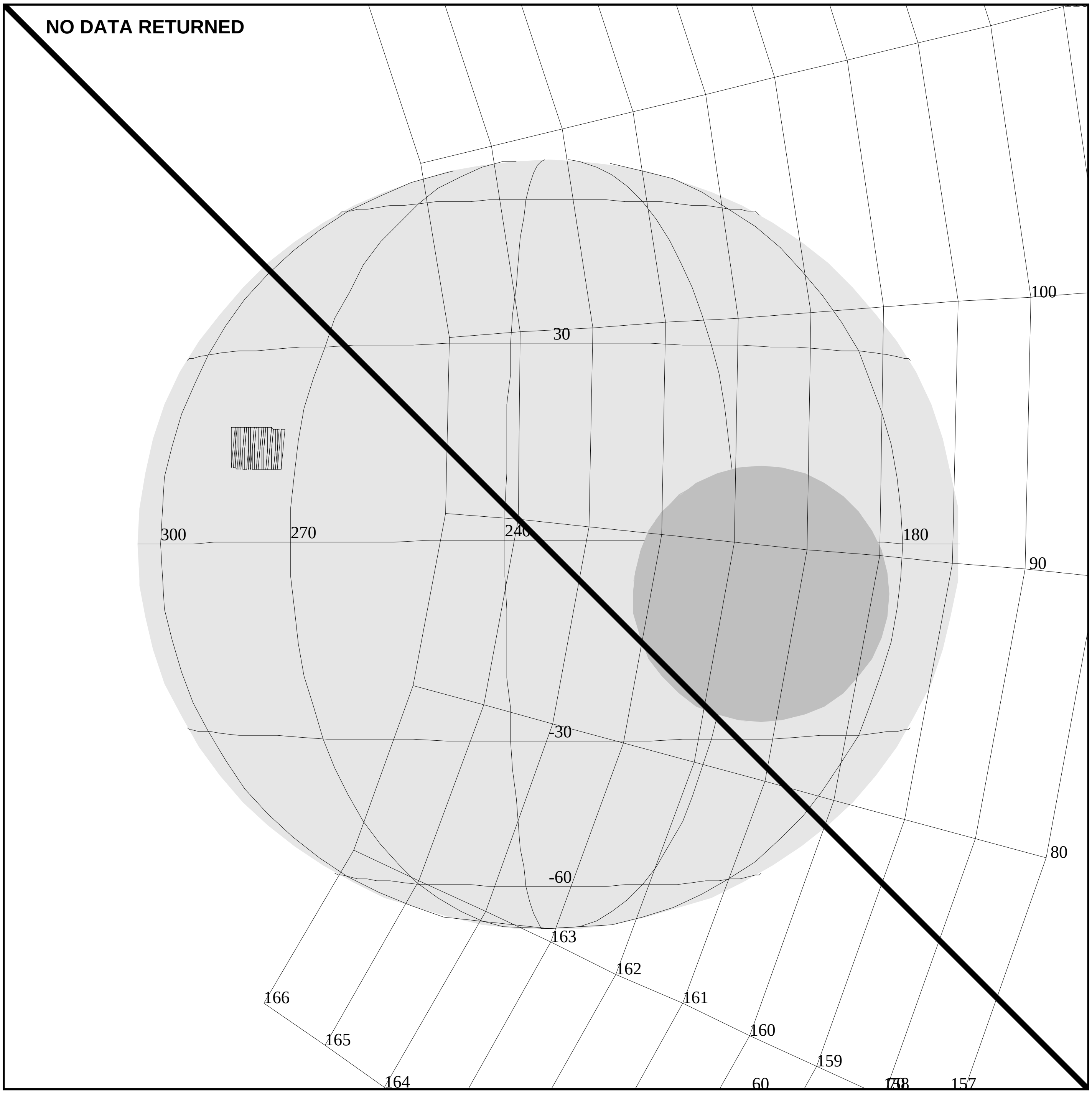
Mode: Long Map Phase: 28 deg
Cone: 142 deg
Wavelengths: 204
Booms: Not in F.O.V.
ASD: 0.567
Incid Angle: 11-70 deg.

Slew Rate: 60 MR/S
% Overlap: 28
NUM Strips: 3
NIMS F.O.V./STRIP: 40%
DMS Mode: 7.68
EMM Angle: 11-90 deg

This observation happens when Europa is in transition with Jupiter, i.e. Euorpa is in front of Jupiter.

Long Map (LM), Gain 2,3,4, Grating Start 0, LPU, G7ELM244B, G7ELM228B
Long Map (LM), Gain 2,3,4, Grating Start 0, LPU, G7ELM244B, G7ELM102B

Galileo Activity Plan Form 03/17/97 17:37:34 rev 6/95



165EE:TT= 0 TMC= 1 C= 5.40 XC= 0.00 BS= 0/1869 TC= 1(14 278.4)
A= 728 pD= 0 SR=17.450 RA50=306.06 DEC50=-18.79 cone=169.00 clock= 93.14
117EE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1869
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEX00202

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEX00202

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTF 97-094/05:25:05.066 -CDS 87:00:0

OBSERVATION:G7JNFEX00202

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_02_DEG_PHASE_02

Jupiter Feature Track X 2 deg phase pt 2 ACTIVITY ID: G7JNFEX00202-
START TIME: 97-094/03:52:03.733

Activity ID: Orbit G7 Target J Inst N OAPEL FEX002 SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date 04/04/97	Week 14

Start	JTF-CDS	00000092:00:0	97-094/03:52:03.733	JTF-000/01:33:01.333
End	JTF-CDS	00000065:00:0	97-094/04:19:21.733	JTF-000/01:05:43.333
Duration		00000027:00:0	000/00:27:18.000	000/00:27:18.000

Top Label G7JNFEX00202-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of five OAPELs constituting the partial feature track X for the North Tropical Zone spot number two. This is the first observation obtained on a rotation with phase angle approximately 2 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near 50 degrees relative longitude, assuming feature coordinates 14 degrees north latitude and 278.4 degrees west longitude (System III).
Note: FEX is at 278.4 degrees West, on the oppoisite hemisphere from the prim campaign feature FEA).

No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) North Tropical Zone feature near 278.4 degrees West longitude, 14 degrees north latitude. S/C distance about 0.67 million KM, NIMS IFOV (NIMSEL) = 335 KM; 1*1 mosaic covers 6700*6700 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation tied to EPOCH JTF. This observation’s ending time has been extended to cover the available time for timing changes in the update period. The observation still has the same starting time, design, and duration. (Original time is JTF-CDS 91 to -CDS 85).

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form 03/17/97 17:37:34 rev 6/95

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NIMS Software Load	ACTIVITY ID:	G7NNNIMSLD07-
	START TIME:	97-094/04:36:33.066

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD 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	04/04/97	Week	14

Start	IEE+CDS	00000440:00:0	97-094/04:36:33.066	IEE+000/07:24:53.333
End	IEE+CDS	00000450:00:0	97-094/04:46:39.733	IEE+000/07:35:00.000
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   G7NNNIMSLD07-
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.

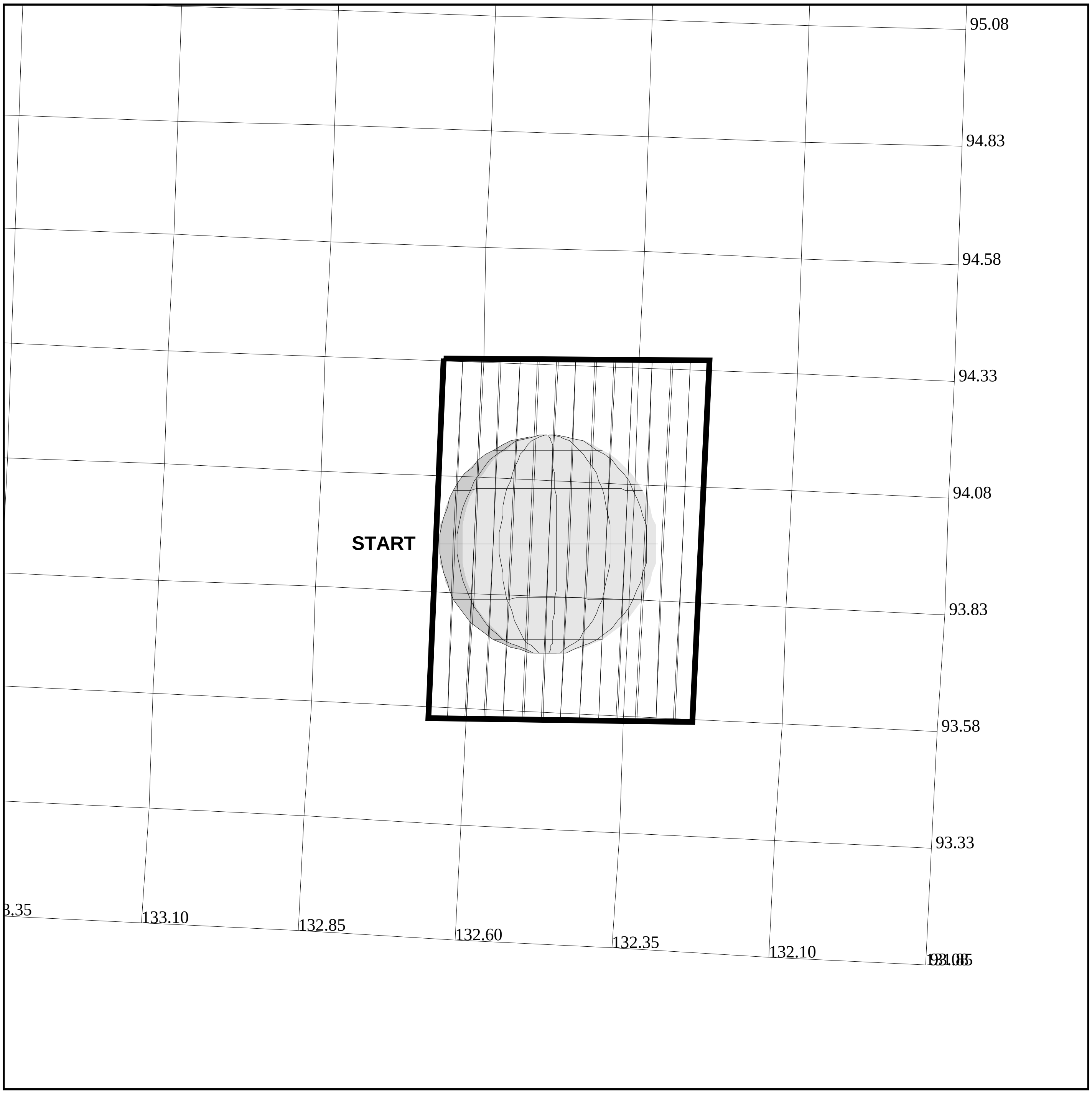
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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   03/17/97 17:37:34   rev 6/95



165EF:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/1333 TC= 3
A= 728 pD= 0 SR=17.450 RA50=267.34 DEC50=-25.02 cone=132.66 clock= 93.94
117EF:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/1333
1:#s= 1 Cs= -2.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

G7INCHEMIS05

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7INCHEMIS05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:IEE 97-093/21:11:39.733 +CDS 453:00:0

OBSERVATION:G7INCHEMIS05

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Io Dayside Monitoring 05

MONITORING OF IO'S DAYSIDE   ACTIVITY ID: G7INCHEMIS05-
                                               START TIME: 97-094/04:47:40.399

Activity ID: Orbit G7 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 04/04/97 Week 14

Start	IEE+CDS	00000451:00:0	97-094/04:47:40.399	IEE+000/07:36:00.666
End	IEE+CDS	00000461:00:0	97-094/04:57:47.066	IEE+000/07:46:07.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   G7INCHEMIS05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	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

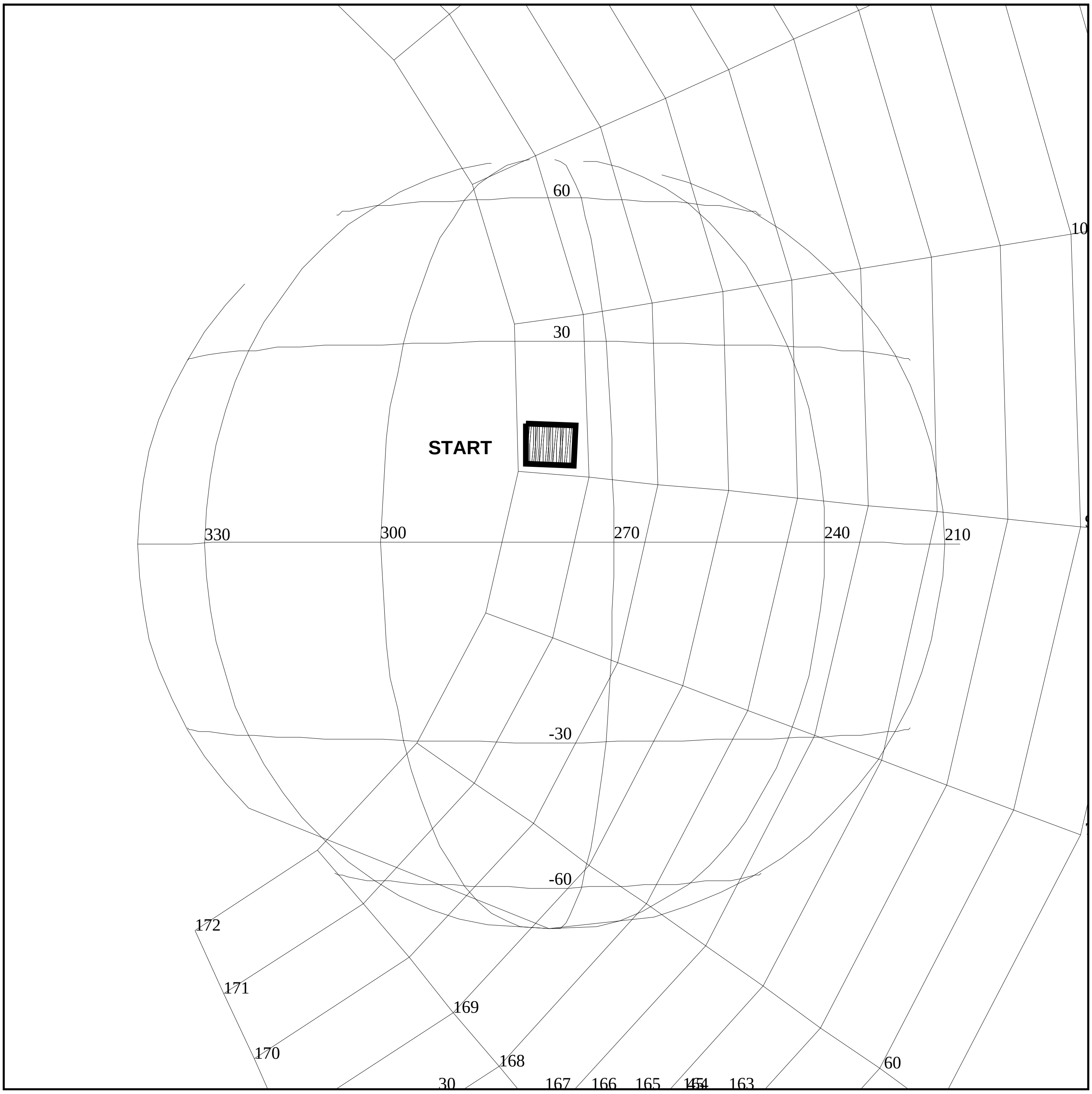
Design Detail

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, 102 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, G7ILM244B, G7ILM216B

Galileo Activity Plan Form   03/17/97 17:37:34   rev 6/95



165EG:TT= 0 TMC= 1 C= 5.40 XC= 0.00 BS= 0/6975 TC= 1(14 278.4)
A= 728 pD= 0 SR=17.450 RA50=308.99 DEC50=-17.90 cone=171.92 clock= 92.87
117EG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6975
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEX00203

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEX00203

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-094/05:58:27.066 -CDS 37:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEX00203 **DESCRIP:JUP_FEA_TRK_02_DEG_PHASE_03**

Jupiter Feature Track X 2 deg phase pt 3	ACTIVITY ID: G7JNFEX00203- START TIME: 97-094/05:15:59.066

Activity ID: Orbit G7 Target J Inst N OAPEL FEX002 SeqNo 03 -

Title	Jupiter Feature Track X 2 deg phase pt 3		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week 14

Start	EEE-CDS	00000042:00:0	97-094/05:15:59.066	EEE-000/00:42:28.000
End	EEE-CDS	00000035:00:0	97-094/05:23:03.733	EEE-000/00:35:23.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	G7JNFEX00203-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	159	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of five OAPELs constituting the partial feature track X of the North Tropical Zone. This is the second observation obtained on a rotation with phase angle approximately 2 degrees. Jupiter is imaged in 4 colors using NIMS downlink wavelength table JFT04A. This observation acquired with feature near minimum airmass, assuming primary feature coordinates, target at 14 degrees south latitude and 278.4 degrees west longitude.

Note: FEX is at 278.4 degrees West, on the opposite hemisphere from the primary campaign feature FEA).

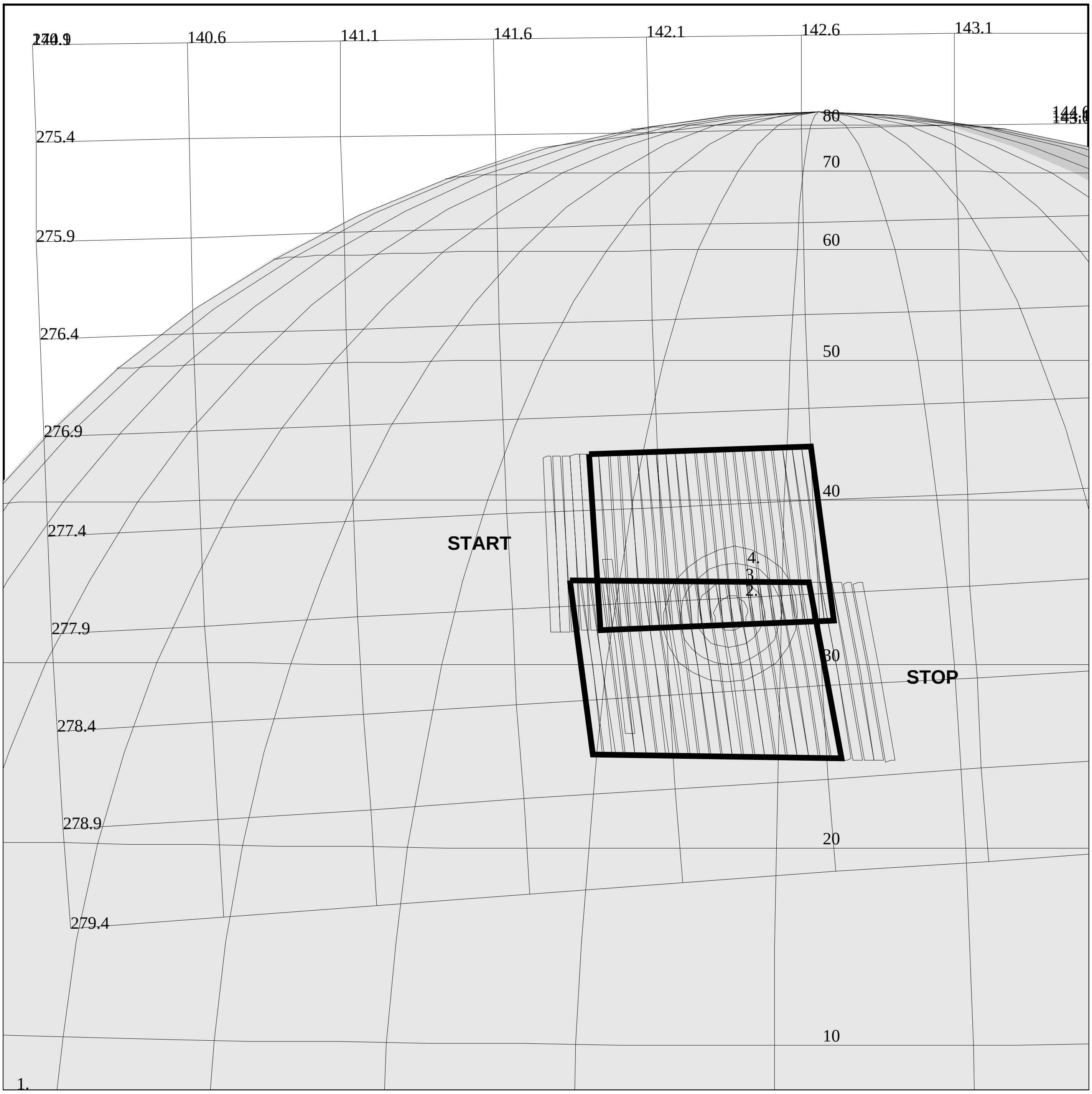
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) scan of the North Tropical Zone feature near 278.4 degrees west longitude, 14 degrees north latitude. S/C distance about 0.63 million KM,
NIMS IFOV (NIMSel) = 315 KM; 1*1 mosaic covers 6300*6300 KM.
About 100 seconds of scanning. Data accumulated 0.02554 MBTG in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH EEE.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68A, G7JFT19A

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95



165EH:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2799 TC= 1(37.5 152.5)
A= 728 pD= 2952 SR=17.450 RA50=353.26 DEC50= -1.88 cone=141.78 clock=277.52
117EH:#SB= 1 OR= 0.030 RR= 3.700 BM=F RC= 1 BS= 0/2799
1:#s= 2 Cs= 14.50 XCs= 0.00 Cr= -14.50 XCr= 7.00 sD= 1456 rD= 40

G7ENTYREMA01

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7ENTYREMA01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:EEE 97-094/05:58:27.066 -CDS 05:00:0

OBSERVATION:G7ENTYREMA01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2952 S= 2.000

DESCRIP:EUROPA TYRE MACULA REGION

Europa Tyre Macula Region | **ACTIVITY ID: G7ENTYREMA01-**
START TIME: 97-094/05:48:20.400

Activity ID: Orbit G7 Target E Inst N OAPEL TYREMA SeqNo 01 -

Title	Europa Tyre Macula Region			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week	14

Start	EEE-CDS	00000010:00:0	97-094/05:48:20.400	EEE-000/00:10:06.666
End	EEE+CDS	00000012:00:0	97-094/06:10:35.066	EEE+000/00:12:08.000
Duration		00000022:00:0	000/00:22:14.666	000/00:22:14.666

Top Label G7ENTYREMA01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	258	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To search for mineralogical differences and understand the origin of circular feature called Tyre Macula --old crater?-- The Mosaic will be centered at 145 degrees west longitude and 33 degrees north latitude and is approximately 80 X 80 km. NIMS resolution will be approximately 11 km/NIMSel. This observatin has been coordinated with UVS, PPR and SSI.

Data Returned

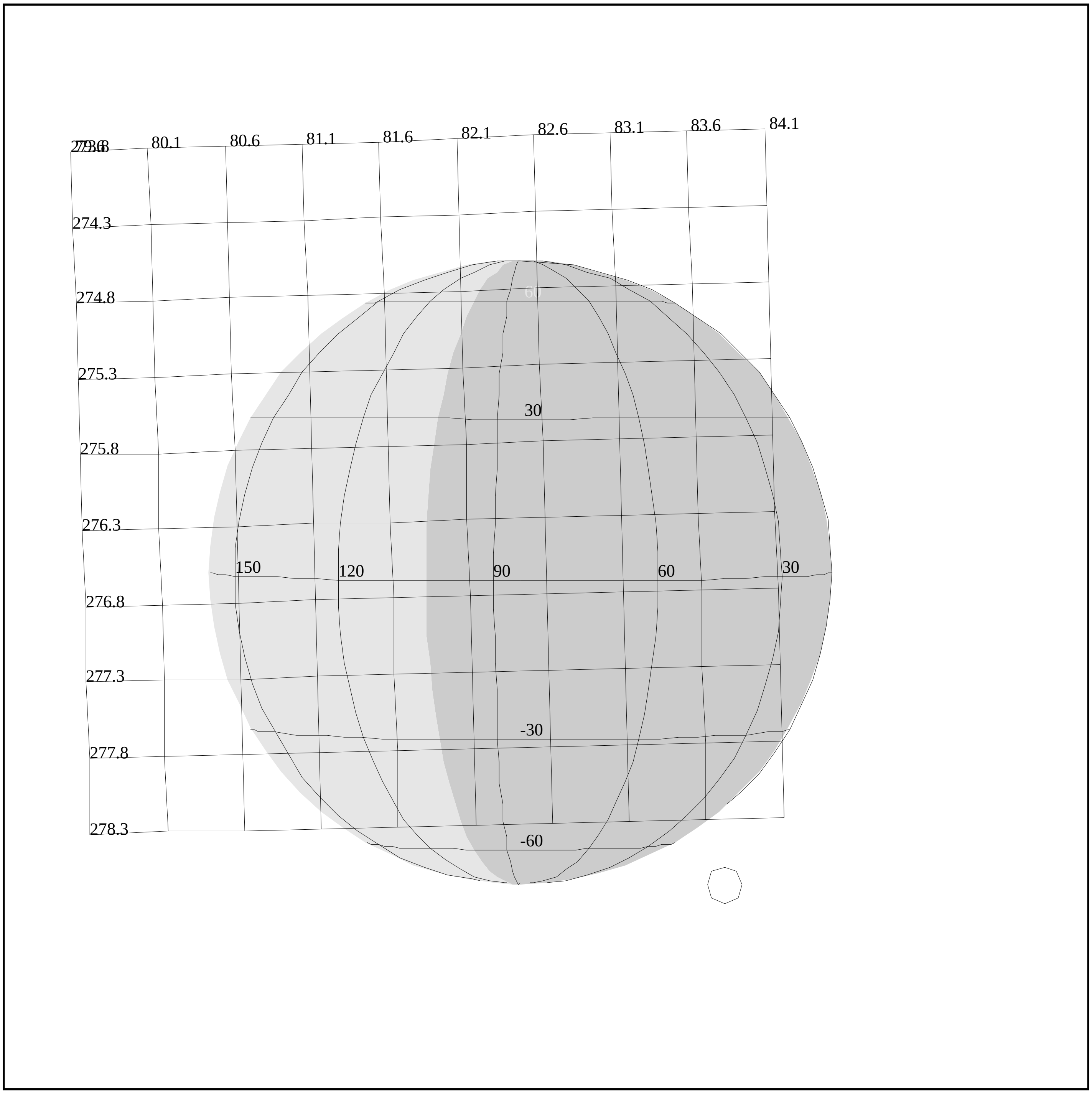
Design Detail

Distance: 23300 KM	Mode: Long Map	Tracks: 0.041
Phase: 50 deg	Slew Rate: 30 MR/S	Long Span: 140-150 deg
Cone: 140 deg	% Overlap: 30	Lat Span: 30-40 deg
Wavelengths: 408	P/B = 301 Wavelengts	Num of Strips: 2
% Coverage: 1	Resolution: 11 KM/PIX	NIMS FOV/Strip: 57
Sub S/C Long: 151 deg	Booms: Not in F.O.V.	DMS Mode: 7.68
Sub S/C Lat: +1.52 deg	ASD: 3.14 deg	Area Cov/PIX; 982
TLM: MPW	Incid Angle: 46-55 deg	EMM Angle: 28-40 deg
Gain: 2		

THIS OBSERVATION WILL BE TWEAKED.

Long Map (LM), Gain 2, Grating Start 0, MPW, G7ELM442, G7ELM360

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95



165GQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2455 TC=15(21.159617 50.658146)
A= 728 pD= 0 SR=17.450 RA50= 50.66 DEC50= 21.16 cone= 81.20 clock=274.59
117GQ:#SB= 3 OR= 0.260 RR=12.000 BM=F RC= 1 BS= 0/2455
1:#s= 15 Cs= 33.00 XCs= 0.00 Cr= -41.00 XCr= 1.10 sD= 384 rD= 20
2:#s= 13 Cs= 35.60 XCs= 0.00 Cr= -41.70 XCr= 1.00 sD= 412 rD= 24
3:#s= 13 Cs= 33.00 XCs= 0.00 Cr= -38.00 XCr= 1.00 sD= 390 rD= 22

G7NNHEALTH03

DESIGN G3.1 lisac: 4/ 9/1997 15:15:55

FILE:P.G7EPDRKMAP01

TARGET BODY : EUROPA

MINI:m.G7EPDRKMAP01

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING: :PPR 1

START:EEE 97-094/05:58:27.066 +CDS 103:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.600

OBSERVATION:G7EPDRKMAP01

DESCRIP:Europa Darkside Map 01

NIMS Health Observation — ACTIVITY ID: G7NNHEALTH03-
START TIME: 97-094/10:48:38.400

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 03 -

Title	NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-SWG/A. Ocampo	Team	NIMS	Working Group	SWG

Time System CDS   Load ID   Calendar Date 04/04/97   Week 14

Start	JEE-CDS	00000015:00:0	97-094/10:48:38.400	JEE-000/00:15:10.000
End	JEE-CDS	00000010:00:0	97-094/10:53:41.734	JEE-000/00:10:06.666
Duration		00000005:00:0	000/00:05:03.334	000/00:05:03.334

Top Label G7NNHEALTH03-
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

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 frequently to monitor the health of the NIMS instrument.

G7 AACS ANOMALY
Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form   03/17/97 17:37:35   rev 6/95

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NIMS Software Reload

ACTIVITY ID: G7NNNIMSLD08-
START TIME: 97-094/10:54:42.400

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 08 -

Title	NIMS Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JEE-CDS	00000009:00:0	97-094/10:54:42.400	JEE-000/00:09:06.000
End	JEE+CDS	00000001:00:0	97-094/11:04:49.066	JEE+000/00:01:00.666
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label G7NNNIMSLD08-
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.

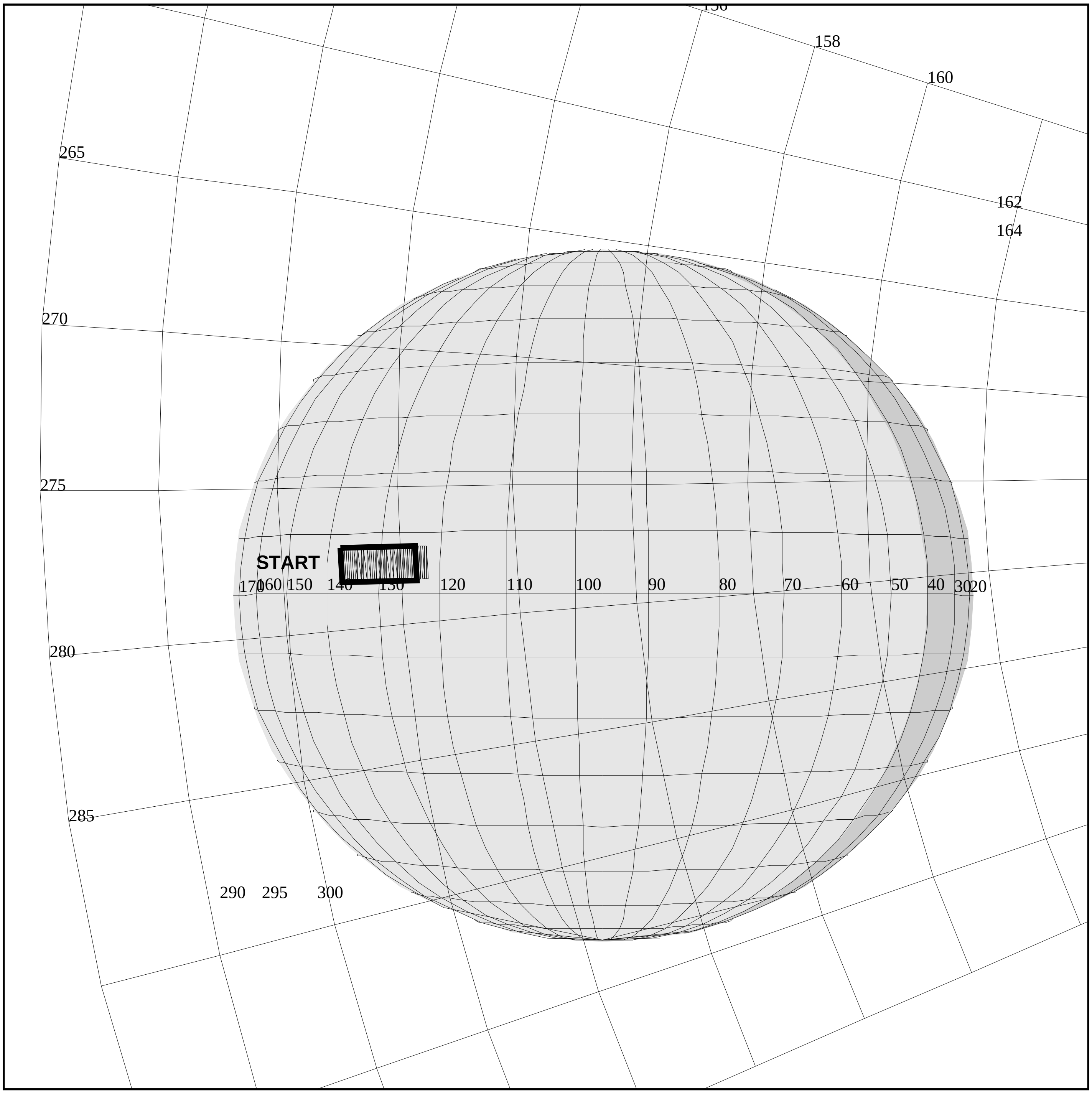
G7 AACS ANOMALY

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:35 rev 6/95



165FR:TT=   0 TMC= 1 C=   0.00 XC=   0.00 BS= 0/9765 TC=15(-5.441489   344.714776)
A= 728 pD=   0 SR=17.450 RA50=344.71 DEC50= -5.44 cone=151.02 clock=277.73
117FR:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/9765
1:#s= 1 Cs=   15.70 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD= 2366 rD=   2

G7JNHOTMAP01

DESIGN G3.1 lisac: 4/ 9/1997 15:13:42

FILE:P.G7JNHOTMAP01

CENTRAL BODY:JUPITER III

MINI:m.G7JNHOTMAP01

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING:NIM   2

START:JEE 97-094/11:03:48.400   +CDS 06:00:0

BODY PLOT TIME:TARGET-TIME D=   0 S= 0.709

OBSERVATION:G7JNHOTMAP01

DESCRIP:NIMS_JUPITER_HOTMAP_OBSERVATION

NIMS Jupiter Hotmap Observation	ACTIVITY ID: G7JNHOTMAP01- START TIME: 97-094/11:05:43.066

Activity ID: Orbit G7 Target J Inst N OAPEL HOTMAP SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	04/04/97	Week	14

Start	JEE+CDS	00000001:81:0	97-094/11:05:43.066	JEE+000/00:01:54.666
End	JEE+CDS	00000031:00:0	97-094/11:35:09.066	JEE+000/00:31:20.666
Duration		00000029:10:0	000/00:29:26.000	000/00:29:26.000

Top Label G7JNHOTMAP01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Longmap mapping of hotspot/PES region at high spatial resolution. Observation uses special wavelength table JHT204A (i.e., 80 wavelengths of thermal from 4.2 to 5.2 um plus 124 wavelengths sampling reflected sunlight).

G7 AACS ANOMALY
Data Returned

Design Detail

Longmap, Nyquist sampled mapping of hotspot/PES region. One tier acquired, centered on the central meridian near 7.0 degrees North latitude. Tier extends 35 mrads, i.e., 69 NIMS footprints, or 138 NIMS samples at Nyquist sampling. Observation takes 138 X 8.666 = 1200 secs = 00:20:00.
Spacecraft distance 0.694 million KM. NIMS IFOV 347 KM.
During which 0.0402 tracks are used, accumulating 3.83 MBTG in 204 colors.
Observation covers 47900 X 6940 KM. Mean phase angle about 2 degrees.
3.50 rims reserved for targetting.

Long Map (LM), Gain 2, Grating Start 0, LPU, G7JHT238A, G7JHT072

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95

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NIMS Software Reload	ACTIVITY ID: G7NNNIMSLD09-
	START TIME: 97-094/13:57:43.066

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 09 -

Title	NIMS Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week 14

Start	IEE+CDS	00000995:00:0	97-094/13:57:43.066	IEE+000/16:46:03.333
End	IEE+CDS	00001005:00:0	97-094/14:07:49.733	IEE+000/16:56:10.000
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7NNNIMSLD09-
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.

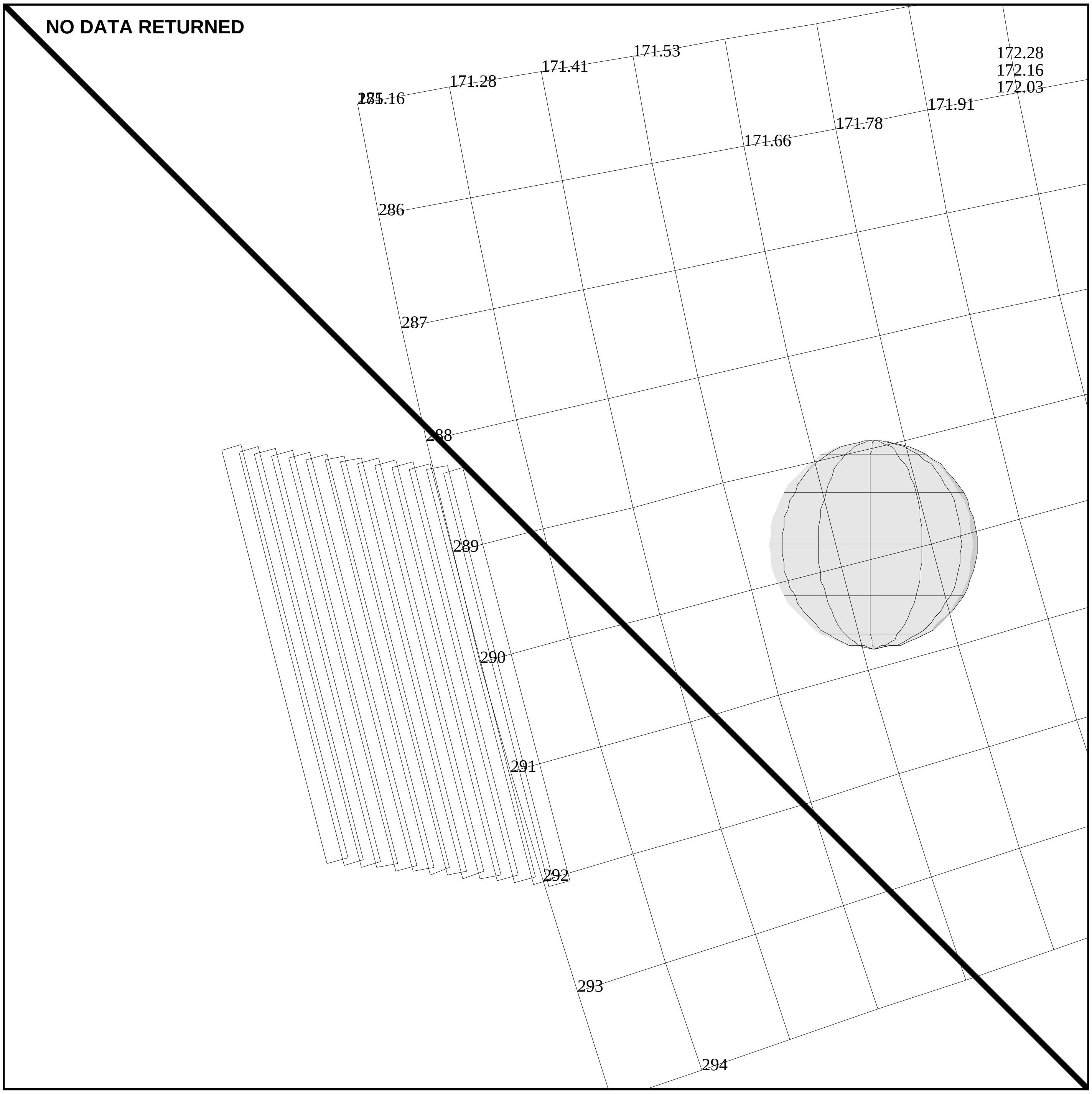
G7 AACS ANOMALY

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:35 rev 6/95



165EI:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2707 TC=15(-14.156114 326.256094)
A= 728 pD= 0 SR=17.450 RA50=326.26 DEC50=-14.16 cone=170.90 clock=289.50
117EI:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/2707
1:#s= 1 Cs= -2.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

G7INCHEMIS06

DESIGN G3.1 lisac: 4/ 9/1997 15: 4:32

FILE:P.G7INCHEMIS06

TARGET BODY : IO

MINI:m.G7INCHEMIS06 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 1010:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INCHEMIS06 **DESCRIP:Io Dayside Monitoring 06**

MONITORING OF IO’S DAYSIDE — **ACTIVITY ID: G7INCHEMIS06-** / **START TIME: 97-094/14:08:43.733**

Activity ID: Orbit G7 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	04/04/97	Week	14

Start	IEE+CDS	00001005:81:0	97-094/14:08:43.733	IEE+000/16:57:04.000
End	IEE+CDS	00001015:00:0	97-094/14:17:56.399	IEE+000/17:06:16.666
Duration		00000009:10:0	000/00:09:12.666	000/00:09:12.666

Top Label G7INCHEMIS06-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	131	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).

G7 AACS ANOMALY
No Data Returned

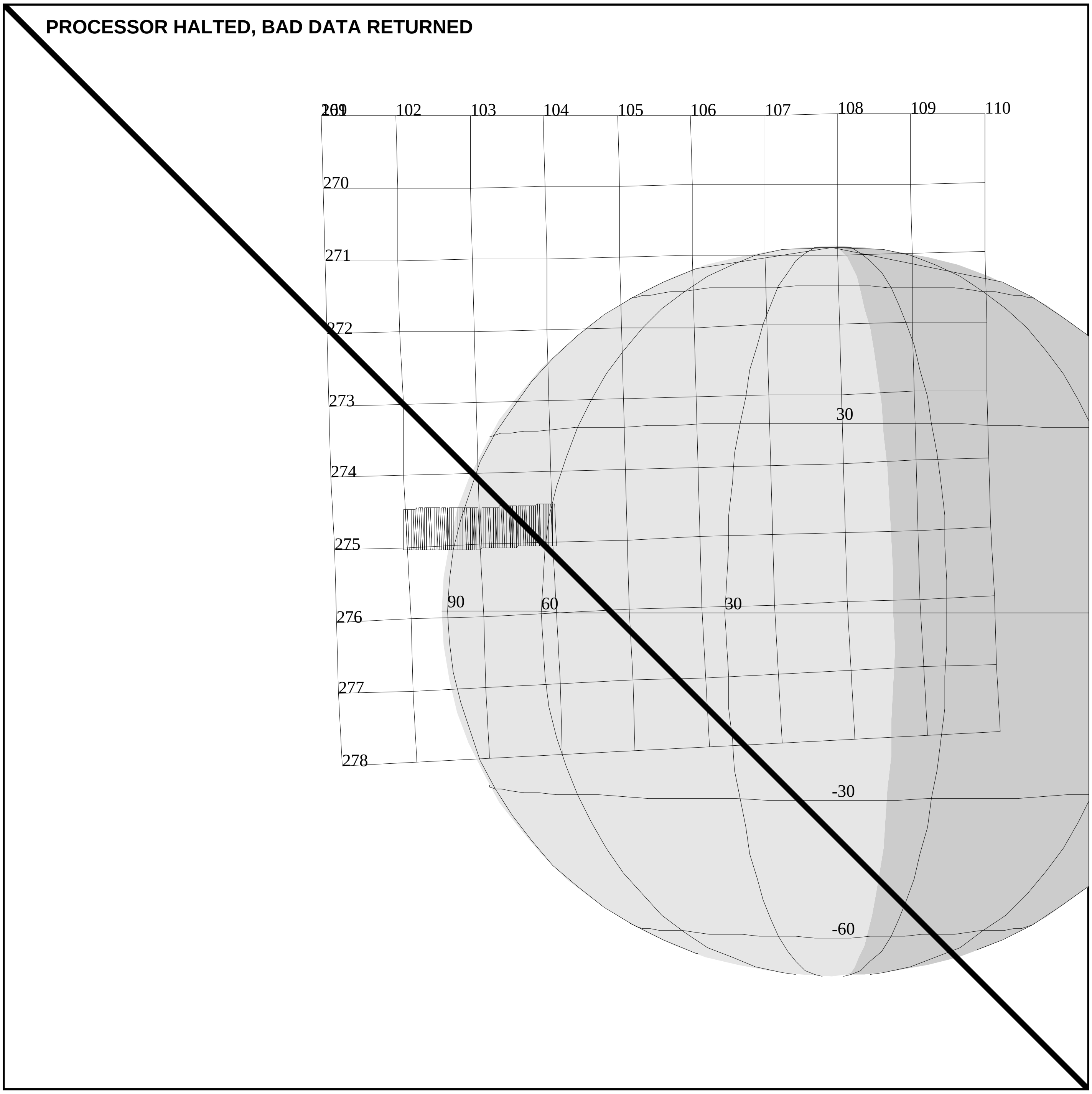
Design Detail

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, 102 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, G7ILM228B, G7ILM228B

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95



165EJ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7135 TC=15(15.141587 29.710618)
A= 728 pD= 0 SR=17.450 RA50= 29.71 DEC50= 15.14 cone=101.97 clock=274.76
117EJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7135
1:#s= 1 Cs= 32.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNFEAP6601

DESIGN G3.1 lisac: 4/ 9/1997 14:49:45

FILE:P.G7JNFEAP6601

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEAP6601

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING:NIM 2

START:JTC 97-094/21:42:49.666 -CDS 91:00:0

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

OBSERVATION:G7JNFEAP6601

DESCRIP:JUP_FT_&_PRTL1_66_DEG_01

Jupiter Ftr and Prtl Trk 66 deg prt 1   ACTIVITY ID: G7JNFEAP6601-
START TIME: 97-094/20:05:45.666

Activity ID: Orbit G7 Target J Inst N OAPEL FEAP66 SeqNo 01 -

Title	Jupiter Ftr and Prtl Trk 66 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS   Load ID   Calendar Date 04/04/97 Week 14

Start	JTC-CDS 00000096:00:0	97-094/20:05:45.666	JTC-000/01:37:04.000
End	JTC-CDS 00000085:00:0	97-094/20:16:53.000	JTC-000/01:25:56.666
Duration	00000011:00:0	000/00:11:07.334	000/00:11:07.334

Top Label   G7JNFEAP6601-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	168	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the North Tropical Zone feature track at 14 degrees North, 65 degrees West. Also the third of 4 OAPELs constituting the Partial Feature Track covering additional territory near the NTZ. This is the first observation obtained on a rotation with phase angle approximately 87 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum airmass, assuming feature coordinates 14 degrees North latitude and 65 degrees West longitude (System III).

G7 AACS ANOMALY
Processor Halted, Bad Data Returned

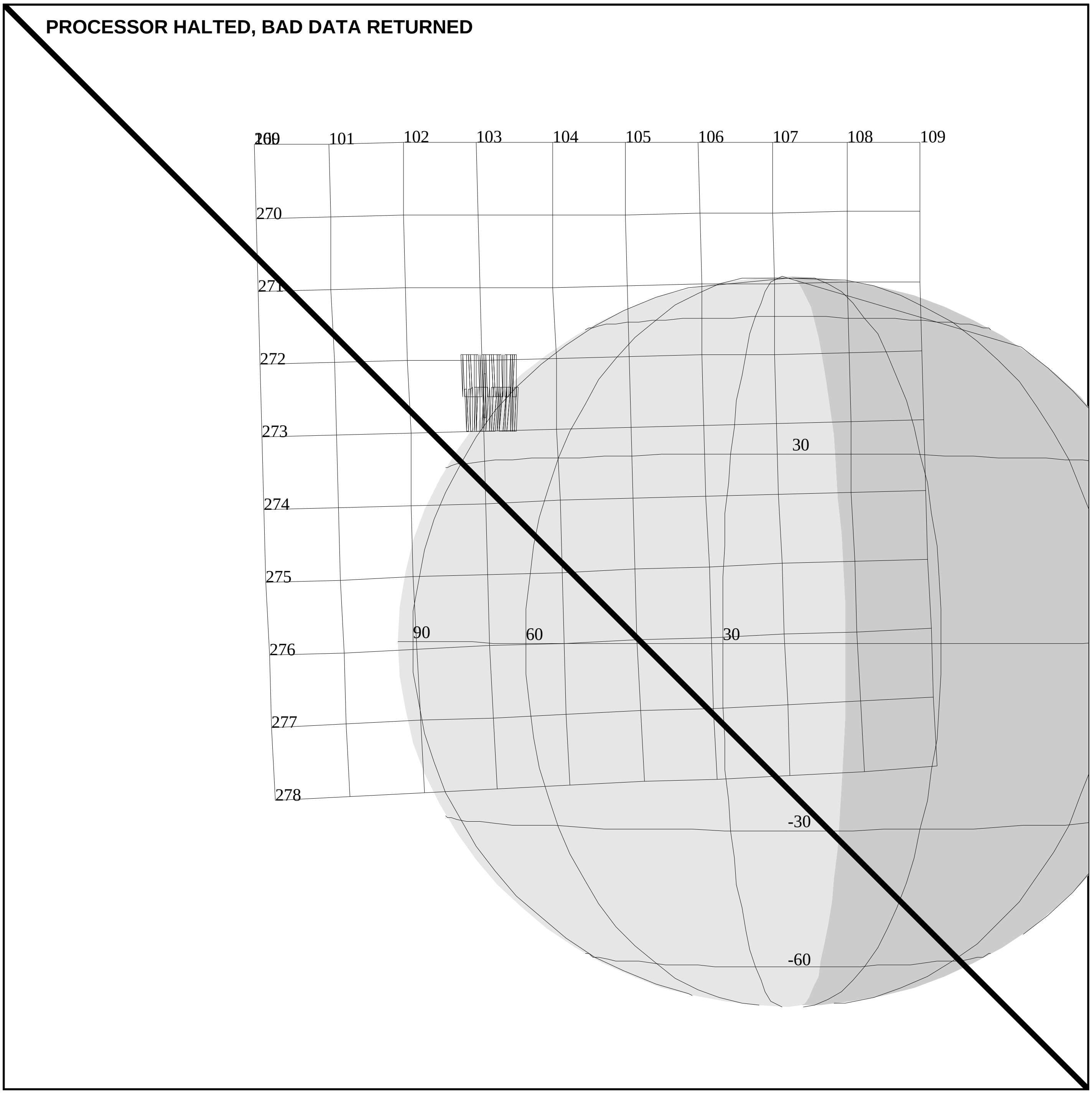
Design Detail

Short map, Nyquist-sampled observation of 3*1 (30*10 mrad) area centered on North Tropical Zone near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 0.730 million KM, NIMS IFOV (NIMSEL) = 365 KM; 3*1 mosaic covers 21900*7300 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 25 colors, and using 0.01008 tracks. Four rims reserved for targetting.   This observation referenced to EPOCH JTC.

NOTE 2/25/97: Observation re-targetted about 5 degrees West to encompass 81 degrees longitude near the limb now being observed by SSI as well as the 65 degree longitude target being feature tracked by NIMS.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form   03/17/97 17:37:35   rev 6/95



165EK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8955 TC=15(17.206698 28.087753)
A= 546 pD= 0 SR=17.450 RA50= 28.09 DEC50= 17.21 cone=102.73 clock=272.22
117EK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8955
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -12.00 XCr= 8.00 sD= 300 rD= 40

G7JNPFTB6601

DESIGN G3.1 lisac: 4/ 9/1997 14:48:11

FILE:P.G7JNPFTB6601

CENTRAL BODY:JUPITER III

MINI:m.G7JNPFTB6601

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING:NIM 2

START:JTC 97-094/21:42:49.666 -CDS 81:00:0

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

OBSERVATION:G7JNPFTB6601

DESCRIP:JUP_PART_FT_B_66_DEG_01

Jupiter Partial Ftr Trk B 66 deg prt 1	ACTIVITY ID:	G7JNPFTB6601-
	START TIME:	97-094/20:18:00.333

Activity ID: Orbit G7 Target J Inst N OAPEL PFTB66 SeqNo 01 -

Title	Jupiter Partial Ftr Trk B 66 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week	14

Start	JTC-CDS	00000083:81:0	97-094/20:18:00.333	JTC-000/01:24:49.333
End	JTC-CDS	00000077:00:0	97-094/20:24:58.333	JTC-000/01:17:51.333
Duration		00000006:81:0	000/00:06:58.000	000/00:06:58.000

Top Label	G7JNPFTB6601-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the partial feature track B of one of two Little Red Spots near 43 degrees north. This is the third observation, the first observation obtained on a rotation with phase angle approximately 87 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature B near minimum air mass, assuming feature coordinates 43 degrees north latitude and 65 degrees west longitude (System III).

G7 AACS ANOMALY
Processor Halted, Bad Data Returned

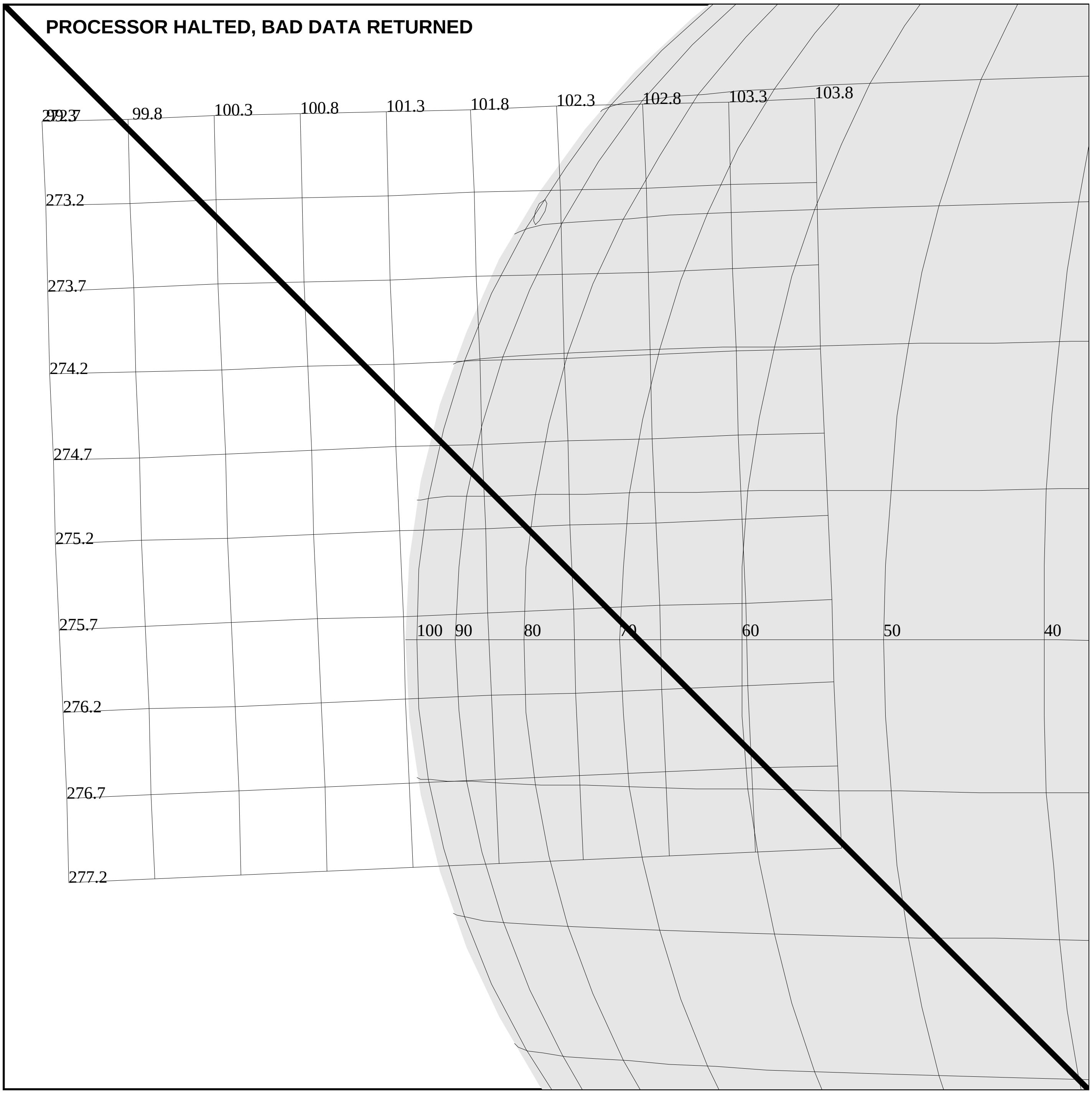
Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 4 degree north latitude, 65 degrees west longitude. S/C distance about 0.74 million KM, NIMS IFOV (NIMSEL) = 370 KM; 1*2 mosaic covers 7400*13320 K including 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 25 colors, and using 0.00739 tracks. 3 rims reserved for targetting.
This observation referenced to EPOCH JTC.

NOTE 2/25/97: Recent IRTF observations predict LRS now at 81 degrees West lon
Observation re-targetted accordingly.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95



165GW:TT=   0 TMC= 1 C=   0.00 XC=   0.00 BS= 0/0047 TC=15(14.433120   29.906364   )
A= 364 pD=   0 SR=17.450 RA50= 29.91 DEC50= 14.43 cone=102.02 clock=275.50
117GW:#SB= 1 OR= 0.300 RR=12.000 BM=F RC= 1 BS= 0/0047
1:#s= 30 Cs= -19.50 XCs=   0.00 Cr=   19.20 XCr=   -1.30 sD=   198 rD=   16

G7NNHEALTH04

DESIGN G3.1 lisac: 4/ 9/1997 14:44:33

FILE:P.G7JPFTNEM101

CENTRAL BODY:JUPITER III

MINI:m.G7JPFTNEM101

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

START:JTC 97-094/21:42:49.666   -CDS 75:00:0

OBSERVATION:G7JPFTNEM101

G7 AACS ANOMALY

THINNING: :PPR   1

BODY PLOT TIME:TARGET-TIME D=   0 S= 1.750

DESCRIP:FT_NORTHERN_REGION_EMA1

G7 Health Observation — ACTIVITY ID: G7NNHEALTH04-
START TIME: 97-094/20:25:11.666

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 04 -

Title	G7 Health Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 04/04/97	Week 14

Start	JTC-CDS	00000076:71:0	97-094/20:25:11.666	JTC-000/01:17:38.000
End	JTC-CDS	00000071:00:0	97-094/20:31:02.333	JTC-000/01:11:47.333
Duration		00000005:71:0	000/00:05:50.667	000/00:05:50.667

Top Label G7NNHEALTH04-
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 frequently to monitor the health of the NIMS instrument.

G7 AACS ANOMALY
Processor Halted, Bad Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form 03/17/97 17:37:35 rev 6/95

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NIMS Software Load	ACTIVITY ID: G7NNNIMSLD10- START TIME: 97-094/20:32:03.000

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 10 -

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

Time System	CDS	Load ID		Calendar Date	04/04/97	Week	14

Start	JTC-CDS	00000070:00:0	97-094/20:32:03.000	JTC-000/01:10:46.666
End	JTC-CDS	00000060:00:0	97-094/20:42:09.666	JTC-000/01:00:40.000
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label	G7NNNIMSLD10-
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.

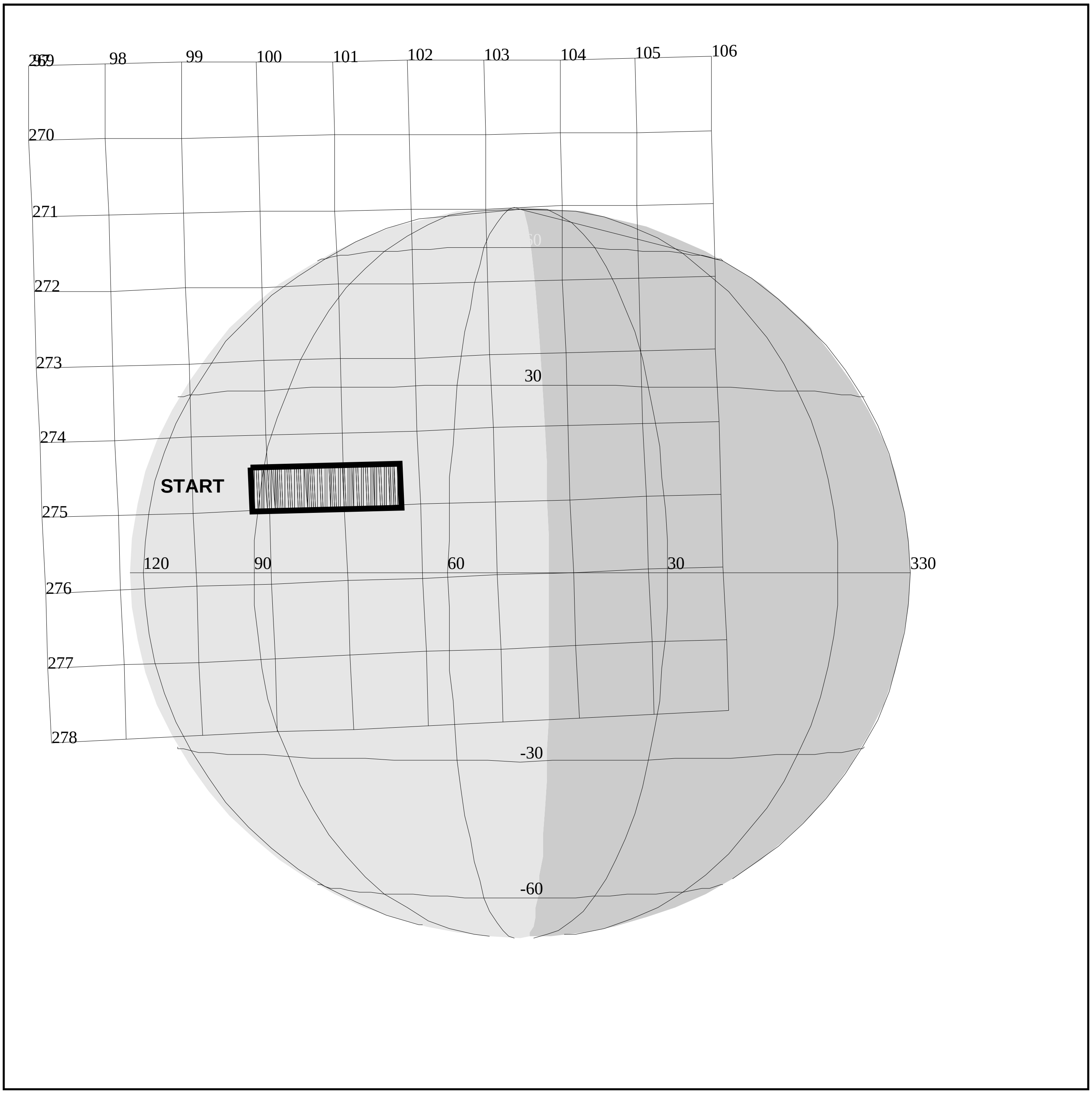
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

G7 AACS ANOMALY

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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



165EL:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8783 TC=15(15.883737 31.834620)
A= 364 pD= 0 SR=17.450 RA50= 31.83 DEC50= 15.88 cone= 99.79 clock=274.73
117EL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8783
1:#s= 1 Cs= 32.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNFEAP6602

DESIGN G3.1 lisac: 4/ 9/1997 14:40:14

FILE:P.G7JNFEAP6602

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEAP6602

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING:NIM 2

START:JTC 97-094/21:42:49.666 -CDS 27:00:0

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

OBSERVATION:G7JNFEAP6602

DESCRIP:JUP_FT_&_PRTL1_66_DEG_02

Jupiter Feature Track 66 deg phase pt 2	ACTIVITY ID: G7JNFEAP6602- START TIME: 97-094/21:12:29.666

Activity ID: Orbit G7 Target J Inst N OAPEL FEAP66 SeqNo 02 -

Title	Jupiter Feature Track 66 deg phase pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week 14

Start	JTC-CDS	00000030:00:0	97-094/21:12:29.666	JTC-000/00:30:20.000
End	JTC-CDS	00000022:00:0	97-094/21:20:35.000	JTC-000/00:22:14.666
Duration		00000008:00:0	000/00:08:05.334	000/00:08:05.334

Top Label	G7JNFEAP6602-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the North Tropical Zone Feature Track. Also the fourth of 4 OAPELs constituting the Partial Feature Track covering additional territory near the North Tropical Zone. This is the second observation obtained on a rotation with phase angle approximately 87 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with North Tropical Zone feature near the evening terminator, assuming feature coordinates 14 degrees North latitude and 65 degrees West longitude (System III).

G7 AACS ANOMALY
Data Returned

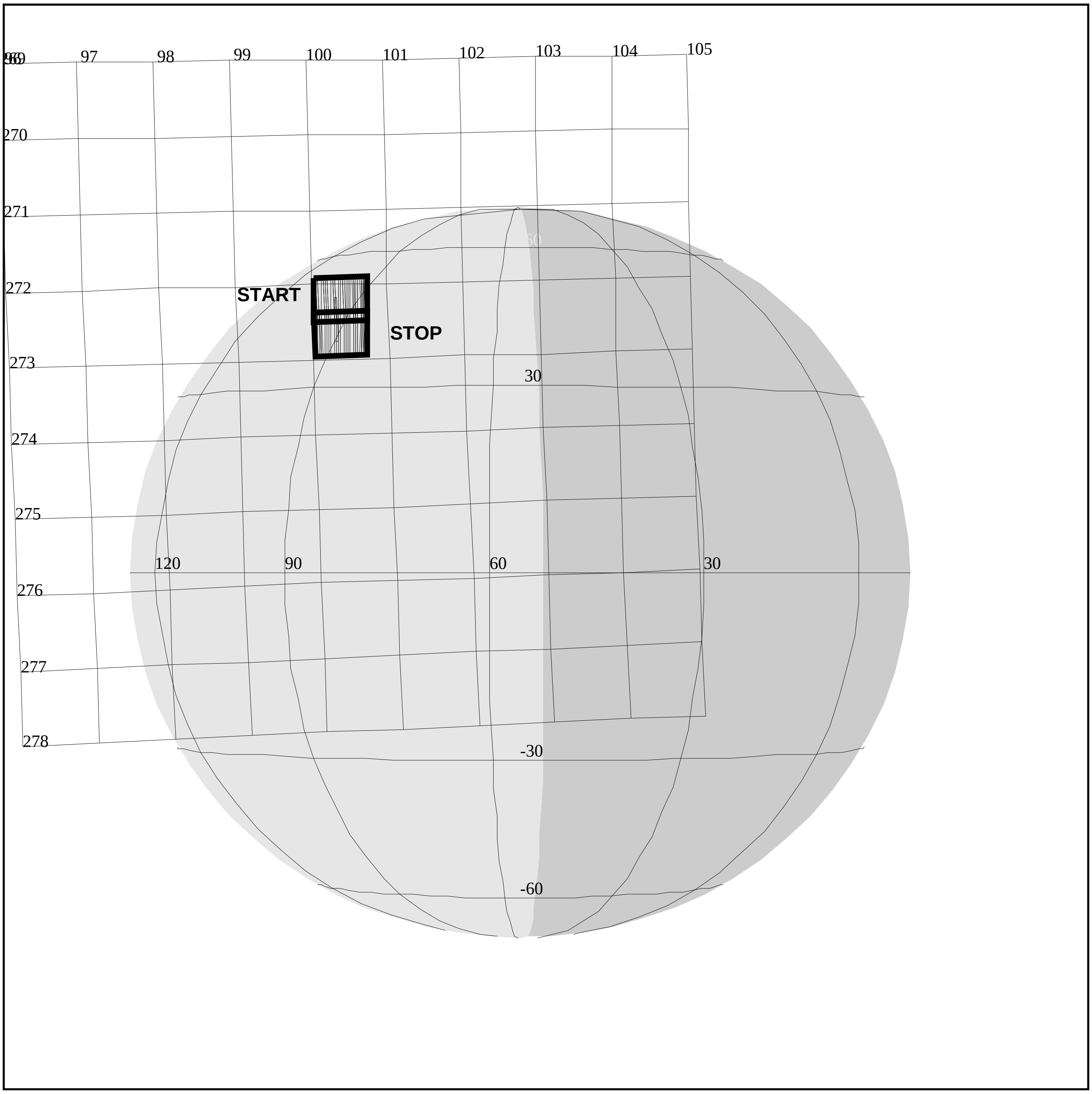
Design Detail

Short map, Nyquist-sampled observation of 3*1 (30*10 mrad) area centered on North Tropical Zone near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 0.77 million KM, NIMS IFOV (NIMSEL) = 370 KM; 3*1 mosaic covers 22200*7400 KM, including 20 percent overlap. About 300 seconds of scanning, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks. Two rims reserved for targetting. This observation referenced to EPOCH JTC.
NOTE 2/17/97: Colors cut back to 4 to meet new downlink budget.

NOTE 2/25/97: Observation re-targetted about 8 degrees to the West to observe both the NIMS 65 degree feature and the SSI 81 degree West longitude feature.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form   03/17/97 17:37:36   rev 6/95



165EM:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0603 TC=15(18.160247 30.737812)
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117EM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0603
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -11.70 XCr= 8.00 sD= 300 rD= 40

G7JNPFTB6602

DESIGN G3.1 lisac: 4/ 9/1997 14:38:53

FILE:P.G7JNPFTB6602

CENTRAL BODY:JUPITER III

MINI:m.G7JNPFTB6602

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING:NIM 2

START:JTC 97-094/21:42:49.666 -CDS 17:00:0

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

OBSERVATION:G7JNPFTB6602

DESCRIP:JUP_PART_FT_B_66_DEG_02

Jupiter Partial Ftr Trk B 66 deg prt 2 ACTIVITY ID: G7JNPFTB6602-
START TIME: 97-094/21:21:35.666

Activity ID: Orbit G7 Target J Inst N OAPEL PFTB66 SeqNo 02 -

Title	Jupiter Partial Ftr Trk B 66 deg prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTC-CDS	00000021:00:0	97-094/21:21:35.666	JTC-000/00:21:14.000
End	JTC-CDS	00000013:00:0	97-094/21:29:41.000	JTC-000/00:13:08.666
Duration		00000008:00:0	000/00:08:05.334	000/00:08:05.334

Top Label G7JNPFTB6602-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the partial feature track B of one of two little Red Spots a near 43 degrees north. This is the second observation obtained on a rotation with phase angle approximately 87 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature B near terminator assuming feature coordinates 43 degrees north latitude and 65 degrees west longitude (System III).

G7 AACS ANOMALY
Data Returned

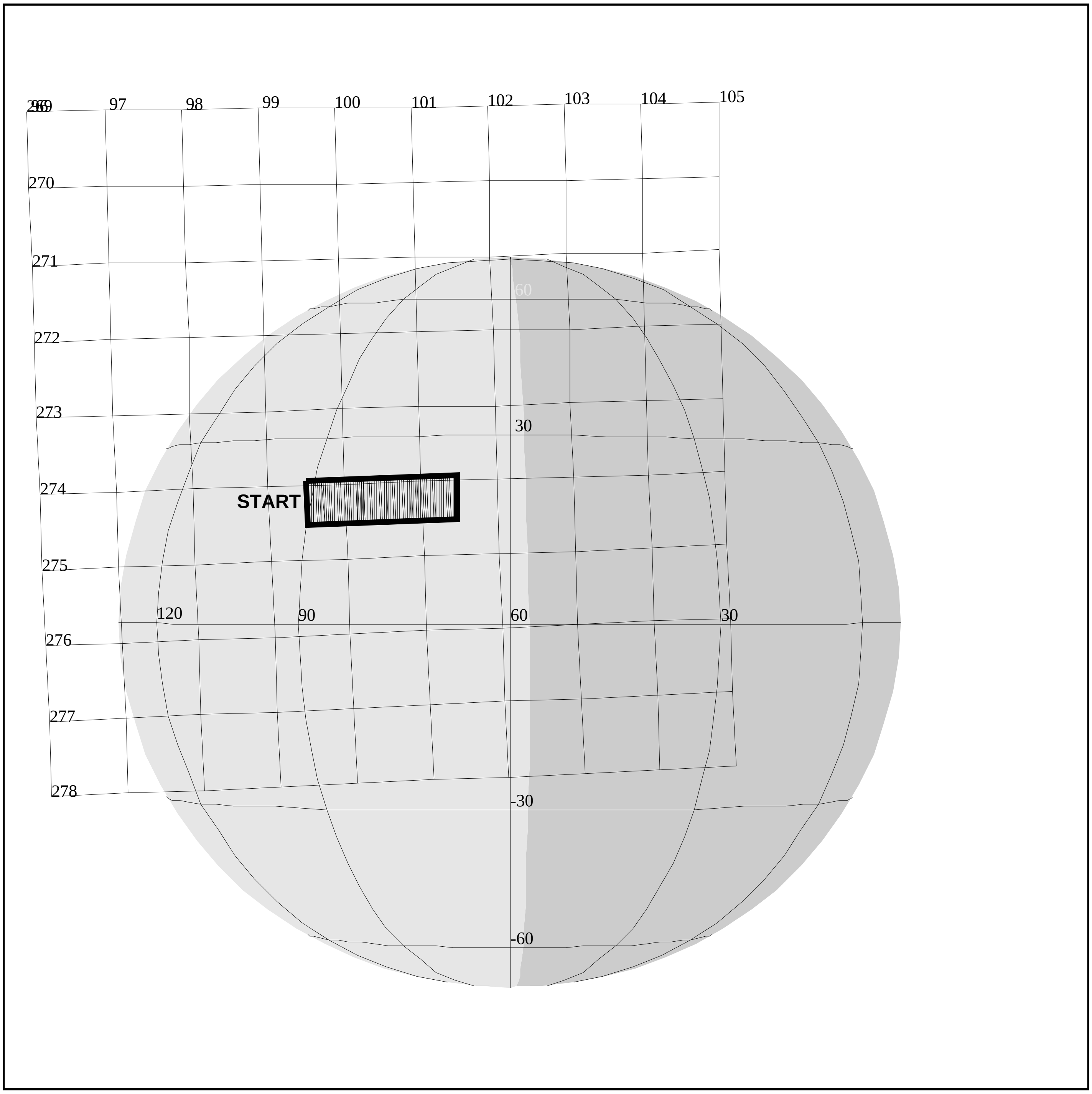
Design Detail

Short map, Nyquist-sampled observation of 1*2 (10*20 mrad) area centered on 43 degree north latitude, 65 degrees west longitude. S/C distance about 0.76 million KM, NIMS IFOV (NIMSEL) = 380 KM; 1*2 mosaic covers 7600*10400 K including 20 percent overlap. About 220 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.19762 MBTG in 19 colors, and using 0.00739 tracks. Three rims reserved for targetting.
This observation referenced to EPOCH JTC.
NOTE 2/17/97: Colors cut back to 4 to meet new downlink budget.

NOTE 2/25/97: Recent IRTF observation predicted LRS now at 81 degrees West longitude. Observation re-targetted accordingly.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95



165EN:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2059 TC=15(16.441777 31.962170)
A= 364 pD= 0 SR=17.450 RA50= 31.96 DEC50= 16.44 cone= 99.49 clock=274.23
117EN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2059
1:#s= 1 Cs= 32.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

G7JNPFC06601

DESIGN G3.1 lisac: 4/ 9/1997 14:37:44

FILE:P.G7JNPFC06601

CENTRAL BODY:JUPITER III

MINI:m.G7JNPFC06601

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

START:JTC 97-094/21:42:49.666 -CDS 09:00:0

OBSERVATION:G7JNPFC06601

G7 AACS ANOMALY

THINNING:NIM 2

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

DESCRIP:JUP_FT_&_PRTL1_66_DEG_02

Jupiter Partial Ftr Trk C 66 deg	ACTIVITY ID: G7JNPFC06601- START TIME: 97-094/21:30:41.666

Activity ID: Orbit G7 Target J Inst N OAPEL PFC066 SeqNo 01 -

Title	Jupiter Partial Ftr Trk C 66 deg	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/04/97 Week 14

Start	JTC-CDS 00000012:00:0	97-094/21:30:41.666	JTC-000/00:12:08.000
End	JTC-CDS 00000002:00:0	97-094/21:40:48.333	JTC-000/00:02:01.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7JNPFC06601-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 4 OAPELs constituting the North Temperate Belt Feature C partial campaign. This is the only observation obtained on a rotation with phase angle approximately 87 degrees. Feature C imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near the evening terminator, assuming feature coordinates 20 degrees North latitude and 65 degrees West longitude (System III).

G7 AACS ANOMALY
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 3*1 (30*10 mrad) area centered on North Temperate Zone feature near 65 degrees West longitude, 20 degrees North latitude. S/C distance about 0.74 million KM,
NIMS IFOV (NIMSEL) = 370 KM; 3*1 mosaic covers 19200*7400 KM.
About 300 seconds of scanning, accumulating 0.372 MBTG in 25 colors, and using 0.01008 tracks. Two rims reserved for targetting.
This observation referenced to EPOCH JTC.
NOTE 2/25/97: Observation re-targetted 5 degrees to the West to observe both the NIMS 65 degree West longitude feature and the SSI 81 degrees West longitude feature.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT25A

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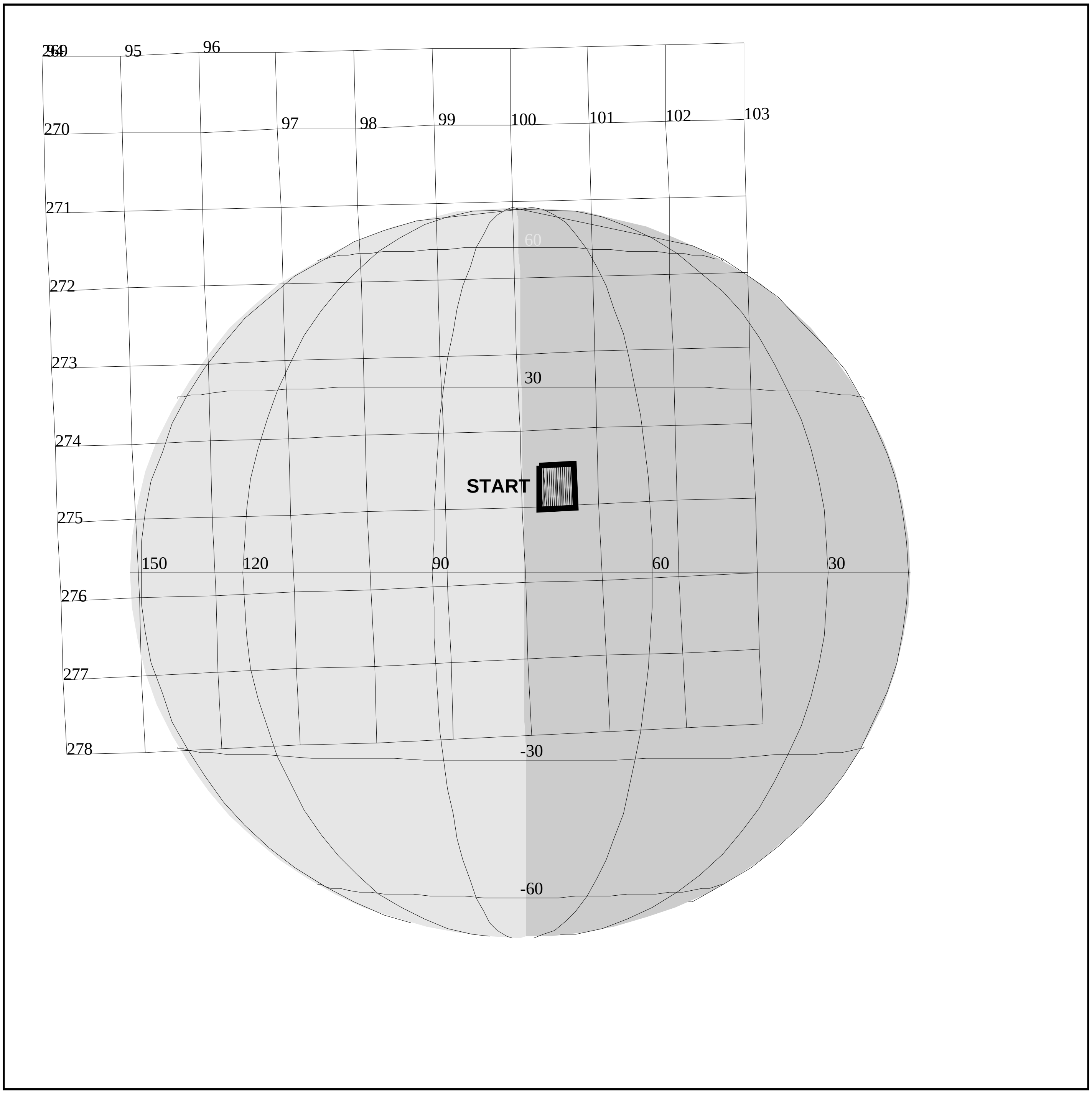

165EO:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8065 TC=15(15.710852 31.411412)
A= 182 pD= 0 SR=17.450 RA50= 31.41 DEC50= 15.71 cone=100.23 clock=274.76
117EO:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/8065
1:#s= 2 Cs= 7.20 XCs= 0.00 Cr= -10.00 XCr= 0.00 sD= 1088 rD= 364

G7JNFEA53M01

DESIGN G3.1 lisac: 4/ 9/1997 14:33:44

FILE:P.G7JNFEA53M01

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEA53M01

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING:NIM 2

START:JTC 97-094/21:42:49.666 +CDS 24:00:0

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

OBSERVATION:G7JNFEA53M01

DESCRIP:JUP_CAMP_FEA_5_AND_3_UM_MAP

Jupiter Campaign Feature 5 and 3 um Map ACTIVITY ID: G7JNFEA53M01-
START TIME: 97-094/22:04:03.666

Activity ID: Orbit G7 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 04/04/97 Week 14

Start	JTC+CDS 00000021:00:0	97-094/22:04:03.666	JTC+000/00:21:14.000
End	JTC+CDS 00000038:30:0	97-094/22:21:34.999	JTC+000/00:38:45.333
Duration	00000017:30:0	000/00:17:31.333	000/00:17:31.333

Top Label G7JNFEA53M01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	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 North Tropical Zone feature. The campaign feature, centered at 65 degrees west longitude (System III), 14 degrees north latitude, is observed near 12 degrees relative longitude during the phase angle ~ 87 degrees rotation. The feature is first scanned in the 160 wavelengths in the three and five micron meter range specified by NIMS wavelength table J35160.
Note: Second scan is vestigal from orginal design. Not needed now.

G7 AACS ANOMALY
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 976 million KM, map covers 7600*7600 KM. Each scan encompasses about 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks.
1 RIM reserved for targetting. 2 minutes reserved for reposition slew.
Total Oapel resources used: 0.72510 MBTG and 0.02418 tracks.
Wavelength table is J35160. SCIREC #2 starts at beginning of subsequent scan. This observation referenced to EPOCH JTC. The times have been changed to accomodate a PPR observation and targetting time has been changed to 1 RIM, original times +49 to 67.
NOTE 2/17/97: Colors cut back to 83 from 160 to meet downlink budget.
New wavelength table is J35083, which acquires 67 wavelengths at 5um, 13 wavelengths near 2.7um, and 3 wavelengths near 1.55um.
NOTE 2/25/97: Playback data cut to 320 seconds from 364 seconds to meet new downlink budget.
Long Map (LM), Gain 4, Grating Start 0, LPU, G7J35160, G7J35083

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95

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NIMS Software Reload	ACTIVITY ID: G7NNNIMSLD11-
	START TIME: 97-094/22:22:15.666

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 11 -

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

Time System	CDS	Load ID		Calendar Date	04/04/97	Week	14

Start	JTC+CDS	00000039:00:0	97-094/22:22:15.666	JTC+000/00:39:26.000
End	JTC+CDS	00000049:00:0	97-094/22:32:22.332	JTC+000/00:49:32.666
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label G7NNNIMSLD11-
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.

G7 AACS ANOMALY

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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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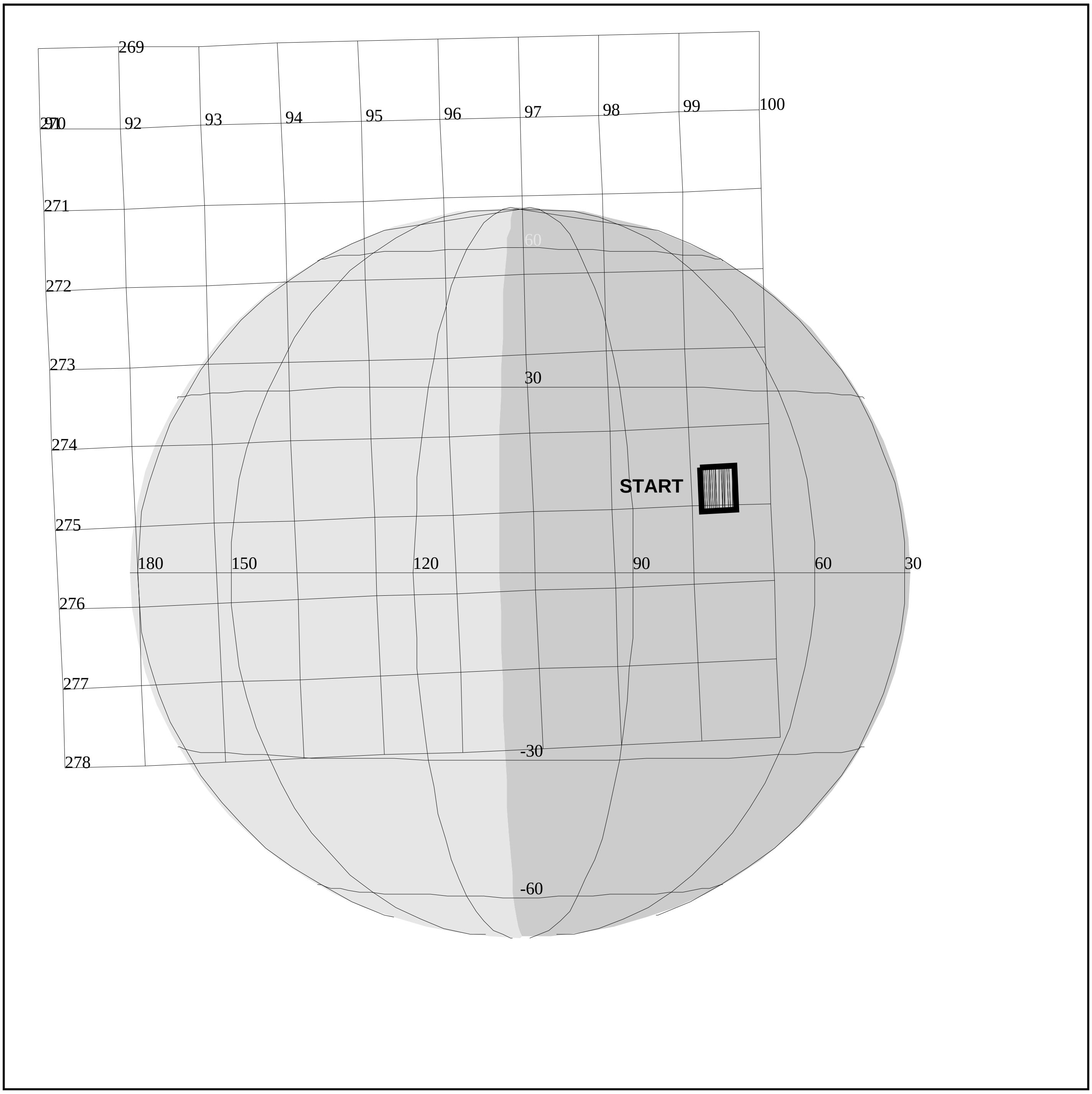


165EP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7165 TC=15(16.035488 32.506640)
A= 546 pD= 0 SR=17.450 RA50= 32.51 DEC50= 16.04 cone= 99.13 clock=274.79
117EP:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7165
1:#s= 1 Cs= 7.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

G7JNFEA5UM01

DESIGN G3.1 lisac: 4/ 9/1997 14:29:26

FILE:P.G7JNFEA5UM01

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEA5UM01

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING:NIM 2

START:JTC 97-094/21:42:49.666 +CDS 74:00:0

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

OBSERVATION:G7JNFEA5UM01

DESCRIP:JUP_CAMP_FEA_5_MICRON_02

Jupiter Feature Track 5 Micron Map 2	ACTIVITY ID:	G7JNFEA5UM01-	
	START TIME:	97-094/22:53:36.332	

Activity ID: Orbit G7 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	04/04/97	Week	14

Start	JTC+CDS	00000070:00:0	97-094/22:53:36.332	JTC+000/01:10:46.666
End	JTC+CDS	00000080:10:0	97-094/23:03:49.666	JTC+000/01:21:00.000
Duration		00000010:10:0	000/00:10:13.334	000/00:10:13.334

Top Label	G7JNFEA5UM01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

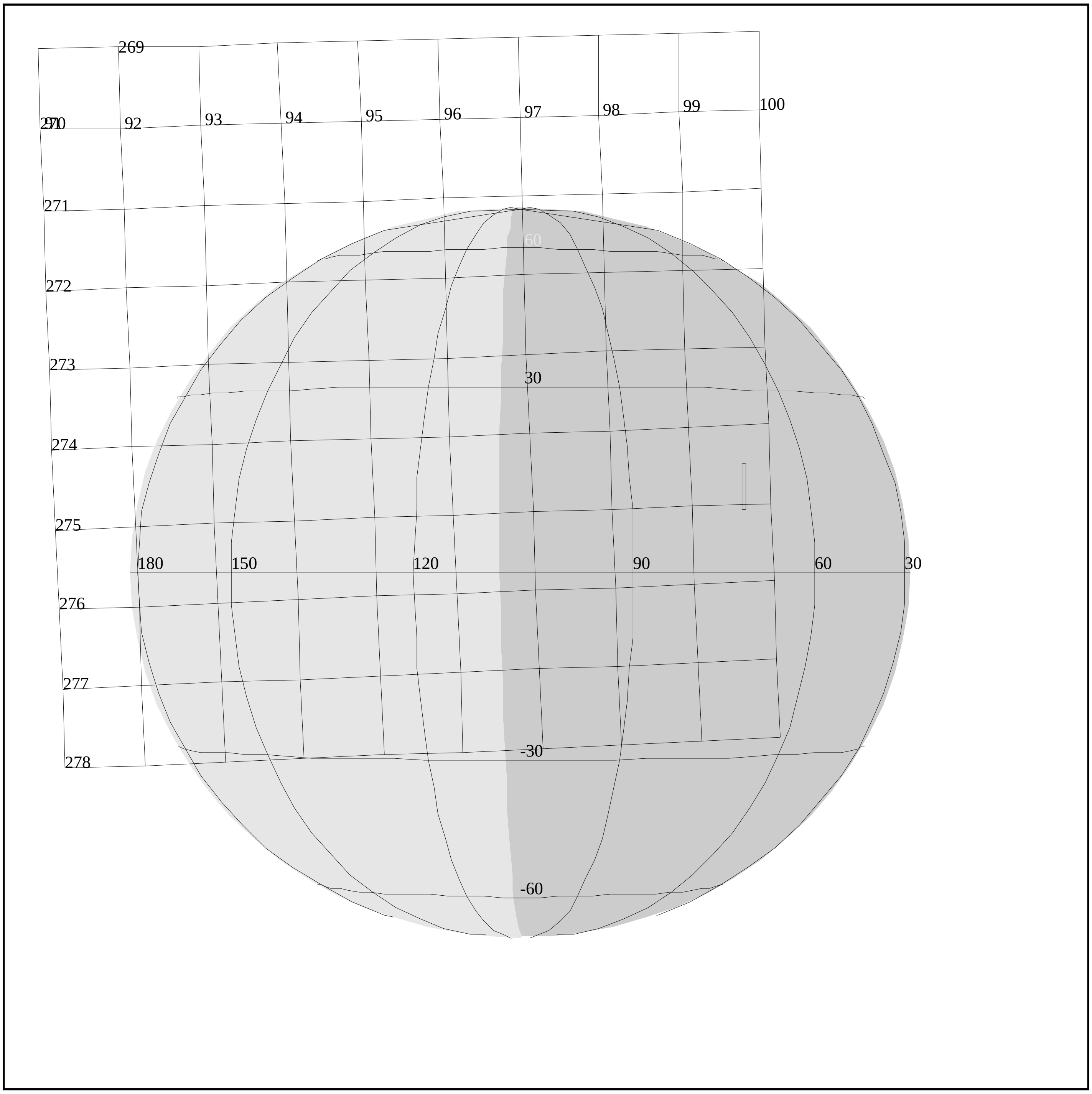
High spectral resolution 5-micron night-time map of trace species within the North Tropical Zone campaign feature. This is the second 5-um map obtained during the 87 degree phase angle rotation, the other having been obtained during OAPEL G7JNFEA53M01-. The campaign feature, centered at 65 degrees west longitude (System III), 14 degrees north latitude, observed near 60 degrees emission angle during the phase angle ~ 87 degrees rotation. The feature is scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B: 4.28 - 5.22 microns.

G7 AACS ANOMALY
Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the campaign feature. S/C distance 981 million KM, map covers 8100*8100 KM. About 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks. 3 minutes reserved for targetting.
This observation referenced to EPOCH JTC.
NOTE 2/25/97: Playback data cut to 300 seconds from 364 seconds to meet new downlink budget.

Long Map (LM), Gain 4, Grating Start 0, MPW, G7J5M253B, G7J5M80B



165EP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7165 TC=15(16.035488 32.506640)
A= 546 pD= 0 SR=17.450 RA50= 32.51 DEC50= 16.04 cone= 99.13 clock=274.79
117EP:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7165
1:#s= 1 Cs= 7.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

G7NNHEALTH05

DESIGN G3.1 lisac: 4/ 9/1997 14:29:26

FILE:P.G7JNFEA5UM01

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEA5UM01 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-094/21:42:49.666 +CDS 74:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA5UM01 **DESCRIP:JUP_CAMP_FEA_5_MICRON_02**

NIMS Health Observation		ACTIVITY ID:	G7NNHEALTH05-
		START TIME:	97-094/23:14:50.332

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 05 -

Title	NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-SWG/J. Hui	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/04/97	Week	14

Start	JTC+CDS	00000091:00:0	97-094/23:14:50.332	JTC+000/01:32:00.666
End	JTC+CDS	00000096:00:0	97-094/23:19:53.666	JTC+000/01:37:04.000
Duration		00000005:00:0	000/00:05:03.334	000/00:05:03.334

Top Label	G7NNHEALTH05-
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

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 frequently to monitor the health of the NIMS instrument.

G7 AACS ANOMALY
Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

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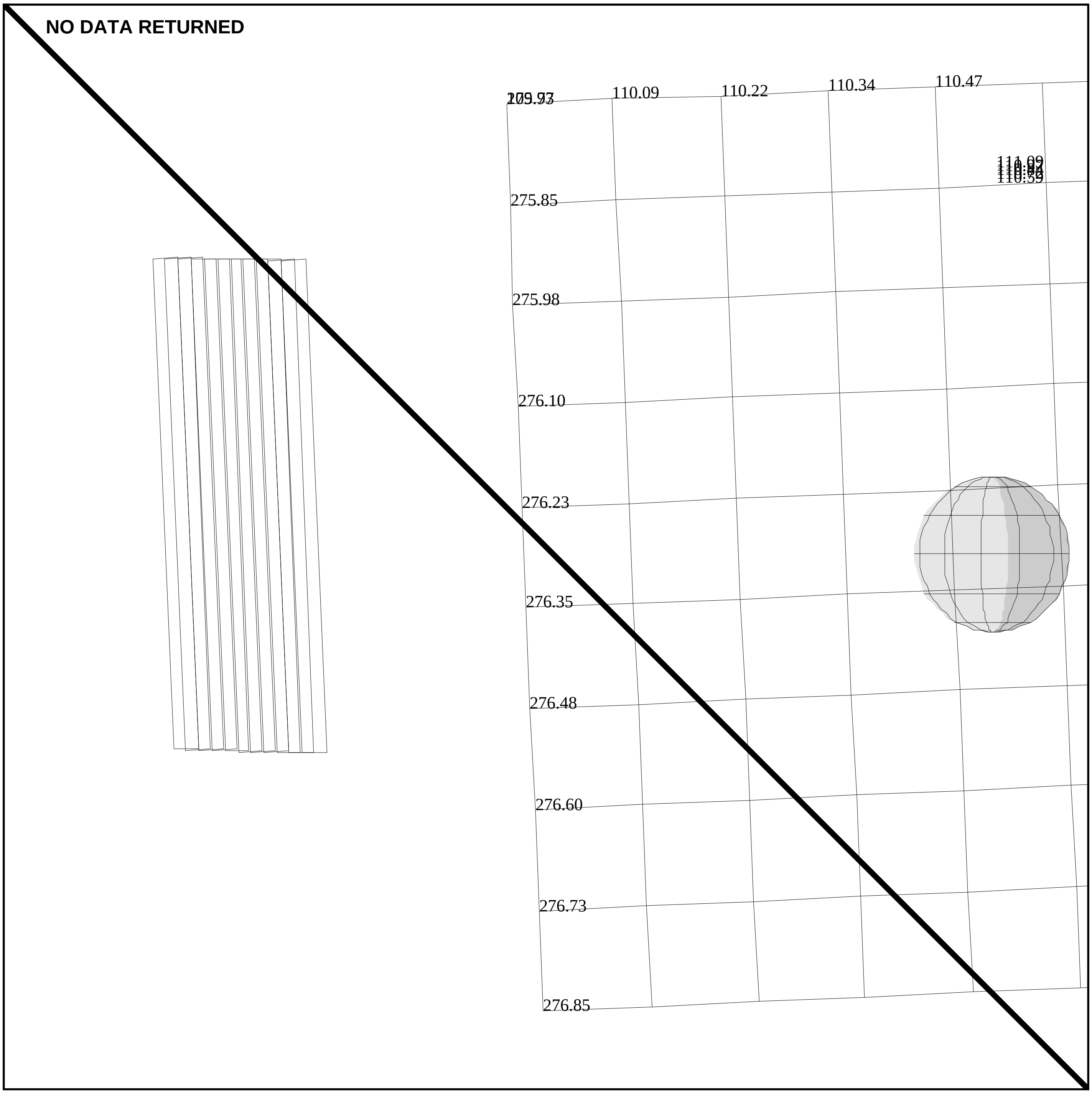

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A= 546 pD= 0 SR=17.450 RA50= 22.88 DEC50= 11.22 cone=109.56 clock=276.20
117ER:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/0633
1:#s= 1 Cs= -1.79 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 542 rD= 2

G7INCHEMIS07

DESIGN G3.1 lisac: 4/ 9/1997 14:30:24

FILE:P.G7INCHEMIS07

TARGET BODY : IO

MINI:m.G7INCHEMIS07 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 1603:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.150**

OBSERVATION:G7INCHEMIS07 **DESCRIP:Io Dayside Monitoring 07**

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: G7INCHEMIS07- START TIME: 97-095/00:08:25.733

Activity ID: Orbit G7 Target I Inst N OAPEL CHEMIS SeqNo 07 -

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 04/05/97 Week 14

Start	IEE+CDS	00001599:00:0	97-095/00:08:25.733	IEE+001/02:56:46.000
End	IEE+CDS	00001606:10:0	97-095/00:15:37.066	IEE+001/03:03:57.333
Duration		00000007:10:0	000/00:07:11.333	000/00:07:11.333

Top Label G7INCHEMIS07-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	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).

G7 AACS ANOMALY
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, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.
Tie with SSI G7ISSMONLO02-

Long Map (LM), Gain 2, Grating Start 0, LPU, G7ILM244B, G7ILM102B

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NIMS Software Load	ACTIVITY ID: G7NNNIMSLD12- START TIME: 97-095/00:15:43.666

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 12 -

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

Time System CDS Load ID Calendar Date 04/05/97 Week 14

Start	GEE-CDS	00000409:71:0	97-095/00:15:43.666	GEE-000/06:54:20.000
End	GEE-CDS	00000402:81:0	97-095/00:22:41.666	GEE-000/06:47:22.000
Duration		00000006:81:0	000/00:06:58.000	000/00:06:58.000

Top Label G7NNNIMSLD12-
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.

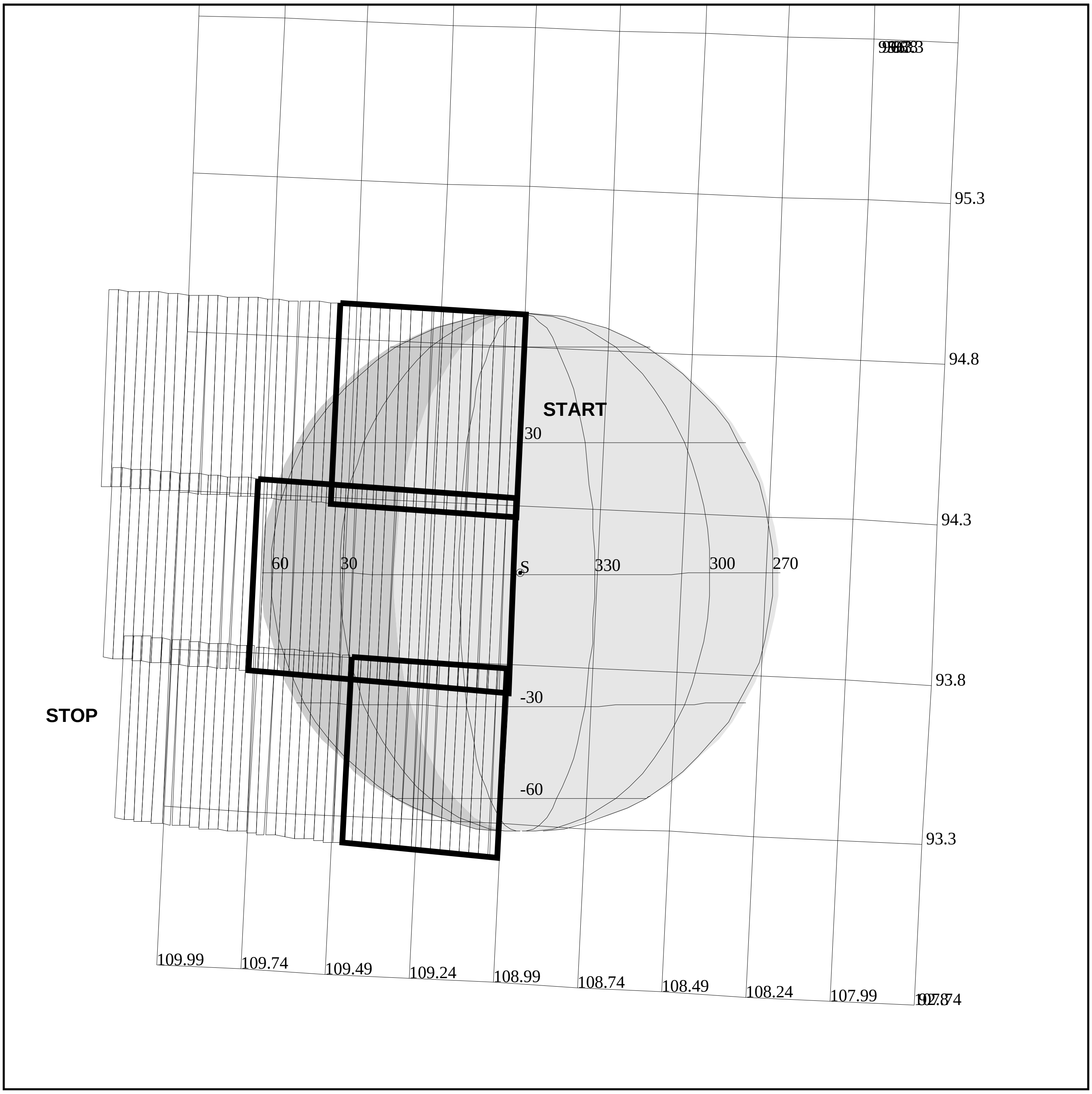
G7 AACS ANOMALY

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:36 rev 6/95



165ES:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3363 TC=15(-23.029150 241.472378)
A= 728 pD= 6452 SR=17.450 RA50=241.47 DEC50=-23.03 cone=108.99 clock= 94.64
117ES:#SB= 1 OR= 0.030 RR= 9.000 BM=F RC= 1 BS= 0/3363
1:#s= 3 Cs= 21.00 XCs= 0.00 Cr= -21.00 XCr= -9.70 sD= 2104 rD= 20

G7GNGLOBAL01

DESIGN G3.1 lisac: 4/ 9/1997 14:24:10

FILE:P.G7GNGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.G7GNGLOBAL01

G7 AACS ANOMALY

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS:

THINNING:NIM 2

START:GEE 97-095/07:10:03.666 -CDS 398:00:0

BODY PLOT TIME:CENTER-TIME D= 6452 S= 0.500

OBSERVATION:G7GNGLOBAL01

DESCRIP:Ganymede Global Map 01

GANYMEDE GLOBAL SURFACE MAP | **ACTIVITY ID:** G7GNGLOBAL01- | **START TIME:** 97-095/00:23:22.333

Activity ID: Orbit G7 Target G Inst N OAPEL GLOBAL SeqNo 01 -

Title	GANYMEDE GLOBAL SURFACE MAP			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/05/97	Week	14

Start	GEE-CDS	00000402:20:0	97-095/00:23:22.333	GEE-000/06:46:41.333
End	GEE-CDS	00000362:00:0	97-095/01:04:02.333	GEE-000/06:06:01.333
Duration		00000040:20:0	000/00:40:40.000	000/00:40:40.000

Top Label G7GNGLOBAL01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	148	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain high spectral resolution map of the satellite surface. This observation investigates the surface mineralogy and distribution of compositional units in a global context. The global map can be use to compare Ganymede to the other satellite to look for similarity and differences. The longitude coverage is 260 to 15 degrees.

G7 AACS ANOMALY
Data Returned

Design Detail

This the second of 5 global observations to cover all longitudes. Continuous slew mosaic over lit surface in the longitude range ~260 to 15 degrees. Scan platform slew rate is 0.03 mrad/sec, to achieve Nyquist sampling rate. This observation consists of three swaths, scanning from east to west and north to south.

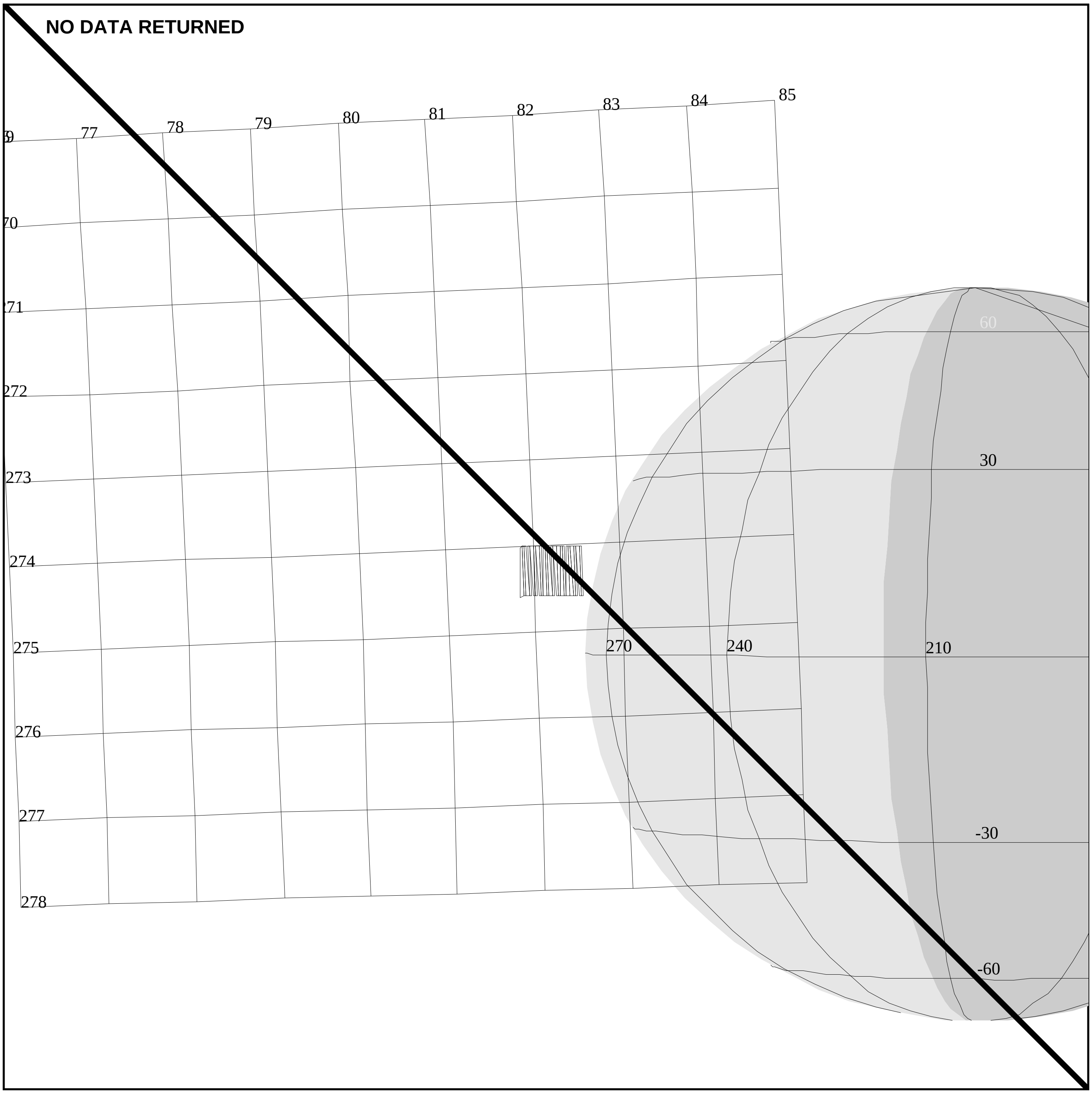
Spatial resolution: <97> km/NIMSel	Phase: <61> degress
Incident angle: <10 to 100> deg.	Emission angle: <5 to 90> deg.
NIMS MODE: LM (Long Map)	Gain State: 3
Chopper: Reference	Grating Start position:0
Grating Offset: 4	# Wavelengths: 204

record and 204 playback Record Format: MPW

Only 3/4 of the observation will be returned from longitudes 305 to 15 degrees.

Long Map (LM), Gain 3, Grating Start 0, LPU, G7GLM244B, G7GLM192

Galileo Activity Plan Form 03/17/97 17:37:36 rev 6/95



165ET:TT=   0 TMC= 1 C=   0.00 XC=   0.00 BS= 0/9197 TC=15(21.287966   49.908650   )
A= 728 pD=   0 SR=17.450 RA50= 49.91 DEC50= 21.29 cone= 81.85 clock=274.30
117ET:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9197
1:#s= 1 Cs=   10.80 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   300 rD=   2

G7JNFEX10801

DESIGN G3.1 lisac: 4/ 9/1997 14:17:56

FILE:P.G7JNFEX10801

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEX10801 — **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: — **THINNING:NIM   2**

START:JTG 97-095/04:13:07.000   -CDS 136:00:0 — **BODY PLOT TIME:TARGET-TIME D=   0 S= 0.750**

OBSERVATION:G7JNFEX10801 — **DESCRIP:JUP_FEA_TRK_108_DEG_PHASE_01**

Jupiter Feature Track 108 deg phse pt 1	ACTIVITY ID:	G7JNFEX10801-	
	START TIME:	97-095/01:50:33.000	

Activity ID: Orbit G7 Target J Inst N OAPEL FEX108 SeqNo 01 -

Title	Jupiter Feature Track 108 deg phse pt 1		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/05/97	Week 14

Start	JTG-CDS	00000141:00:0	97-095/01:50:33.000	JTG-000/02:22:34.000
End	JTG-CDS	00000121:00:0	97-095/02:10:46.334	JTG-000/02:02:20.666
Duration		00000020:00:0	000/00:20:13.334	000/00:20:13.334

Top Label	G7JNFEX10801-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	159	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 5 OAPELs constituting the partial feature track X for the North Tropical Zone spot number two. This is the first observations obtained on a rotation with phase angle approximately 108 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near morning terminator, assuming feature coordinates 14 degrees north latitude and 276.6 degrees west longitude (System III).

Note: FEX is at 278.4 degrees West, on the opposite hemisphere from the campaign feature FEA.

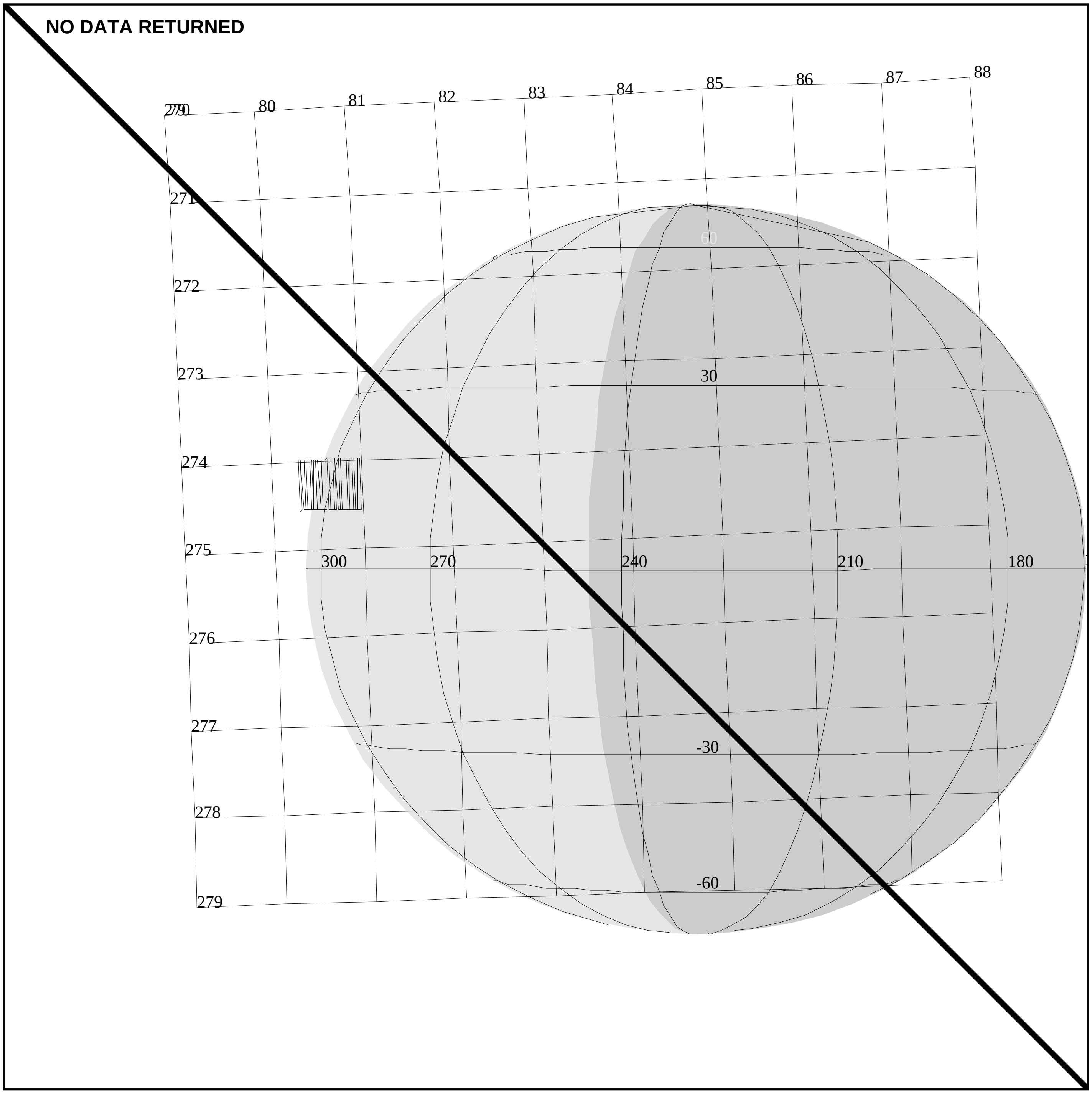
G7 AACS ANOMALY
No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone feature near 276.6 degrees West longitude, 14 degrees North latitude. S/C distance about 0.90 million KM, NIMS IFOV (NIMSEL) = 450 KM; 1*1 mosaic covers 9000*9000 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTG. This observation’s starting/ending time have been changed to avoid conflict and cover the available time for timing changes in the update period. The observation still has the same design and duration, but the starting time is different JTG-CDS 139.
(Original time is JTG-cds 147 to -cds 141)

Short Map (SM), Gain 2, Grating Start 0, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form   03/17/97 17:37:37   rev 6/95



165EU:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7751 TC=15(21.673828 51.522199)
A= 728 pD= 0 SR=17.450 RA50= 51.52 DEC50= 21.67 cone= 80.30 clock=274.26
117EU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7751
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEX10802

DESIGN G3.1 lisac: 4/ 9/1997 14:14:52

FILE:P.G7JNFEX10802

CENTRAL BODY:JUPITER III

MINI:m.G7JNFEX10802 **G7 AACS ANOMALY**

S/C EPH:/DATA/NAVIO/T-970320-164.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTG 97-095/04:13:07.000 -CDS 89:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEX10802 **DESCRIP:JUP_FEA_TRK_108_DEG_PHASE_02**

Jupiter Feature Track 108 deg phse pt 2 ACTIVITY ID: G7JNFEX10802-
START TIME: 97-095/02:38:04.334

Activity ID: Orbit G7 Target J Inst N OAPEL FEX108 SeqNo 02 -

Title	Jupiter Feature Track 108 deg phse pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/05/97	Week	14

Start	JTG-CDS	00000094:00:0	97-095/02:38:04.334	JTG-000/01:35:02.666
End	JTG-CDS	00000086:00:0	97-095/02:46:09.667	JTG-000/01:26:57.333
Duration		00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label G7JNFEX10802-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 5 OAPELs constituting the partial feature track X for the North Tropical Zone spot number two. This is the second observation obtained on a rotation with phase angle approximately 108 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with Brown Barge feature near minimum airmass, assuming feature coordinates 14 degrees north latitude and 276.6 degrees west longitude (System III). Original Times: Start CDS = 916:80 End CDS = 922:44
Duration = 5:55
Note: FEX is at 276.6 degrees West, the opposite hemisphere from the campaign feature FEA.

G7 AACS ANOMALY
No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone feature near 276.6 degrees West longitude, 14 degrees North latitude. S/C distance about 0.89 million KM, NIMS IFOV (NIMSEL) = 445 KM; 1*1 mosaic covers 8900*8900 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTG. This observation’s ending time has been extended to cover the available time for timing changes in the update period. The observation still has the same starting time, design and duration.
(Original time is JTG-CDS 100 to -CDS 94)

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04A

Galileo Activity Plan Form 03/17/97 17:37:37 rev 6/95

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NIMS Software Reload	ACTIVITY ID: G7NNNIMSLD13- START TIME: 97-095/03:13:27.667

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 13 -

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

Time System	CDS	Load ID		Calendar Date	04/05/97	Week	14

Start	JTG-CDS	00000059:00:0	97-095/03:13:27.667	JTG-000/00:59:39.333
End	JTG-CDS	00000049:00:0	97-095/03:23:34.334	JTG-000/00:49:32.666
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G7NNNIMSLD13-
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.

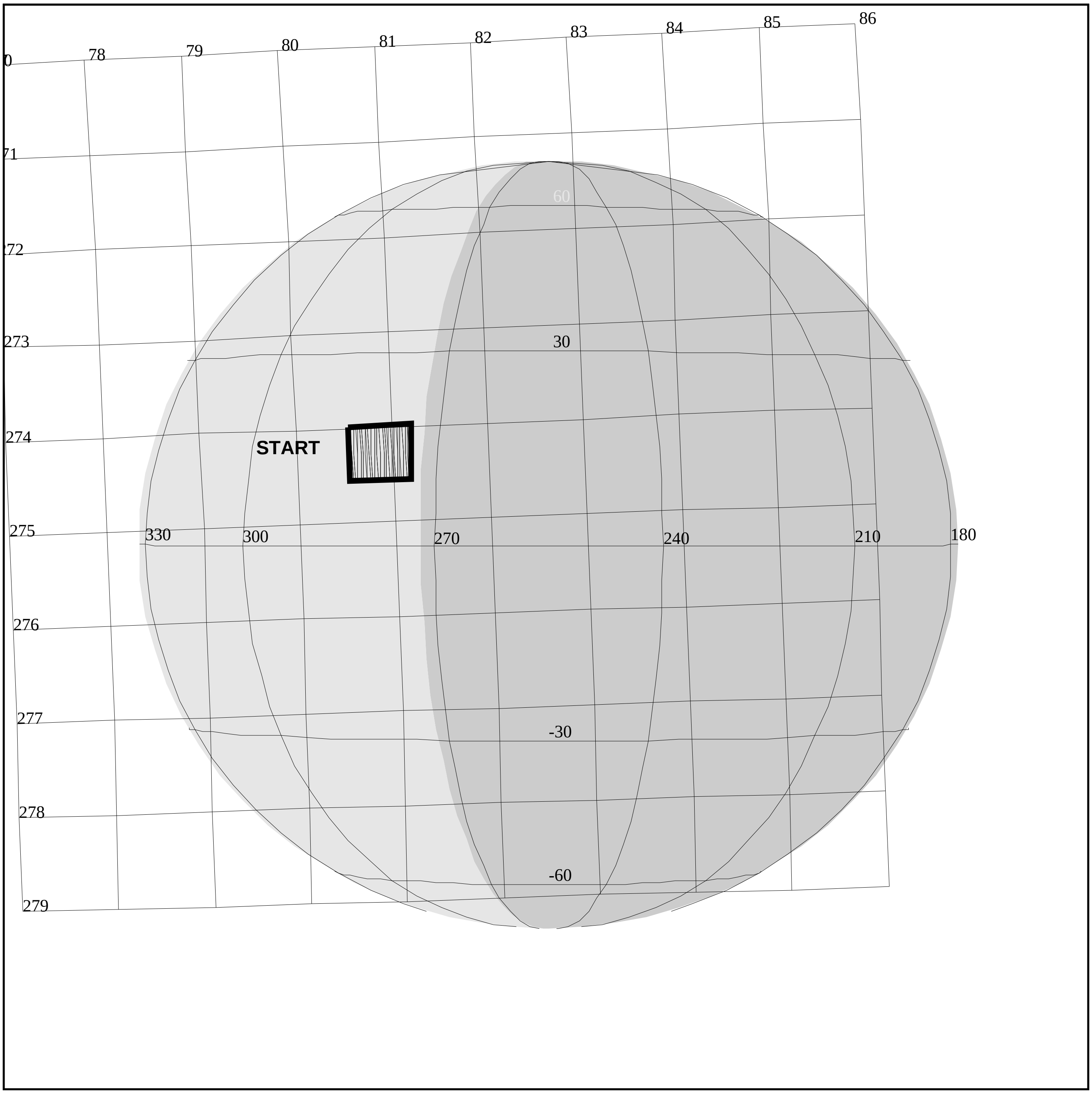
G7 AACS ANOMALY

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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 03/17/97 17:37:37 rev 6/95



165EV:TT=   0 TMC= 1 C=   -5.40 XC=   0.00 BS= 0/5941 TC= 1(14   278.4   )
A= 728 pD=   0 SR=17.450 RA50= 51.26 DEC50= 21.60 cone= 80.55 clock=274.27
117EV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5941
1:#s= 1 Cs=   10.80 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   300 rD=   2

G7JNFEX10803

TARGET G3.1 lisac: 5/ 6/1997 12:10: 0

FILE:P.G7JNFEX10803

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTG 97-095/04:13:07.000   -CDS 44:00:0

OBSERVATION:G7JNFEX10803

F_R_O_Z_E_N___T_M_C

THINNING:NIM   2

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

DESCRIP:JUP_FEA_TRK_108_DEG_PHASE_03

Jupiter Feature Track 108 deg phse pt 3	ACTIVITY ID: G7JNFEX10803- START TIME: 97-095/03:24:21.667

Activity ID: Orbit G7 Target J Inst N OAPEL FEX108 SeqNo 03 -

Title	Jupiter Feature Track 108 deg phse pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/05/97 Week 14

Start	JTG-CDS 00000048:20:0	97-095/03:24:21.667	JTG-000/00:48:45.333
End	JTG-CDS 00000034:00:0	97-095/03:38:44.334	JTG-000/00:34:22.666
Duration	00000014:20:0	000/00:14:22.667	000/00:14:22.667

Top Label G7JNFEX10803-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 5 OAPELs constituting the partial feature track X for the North Tropical Zone spot number two. This is the third observation obtained on a rotation with phase angle approximately 108 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with Brown Barge feature near the evening terminator, assuming feature coordinates 14 degrees north latitude and 276.6 degrees west longitude (System III).
Note: FEX is at 276.6 degrees West, the opposite hemisphere from the campaign feature FEA.

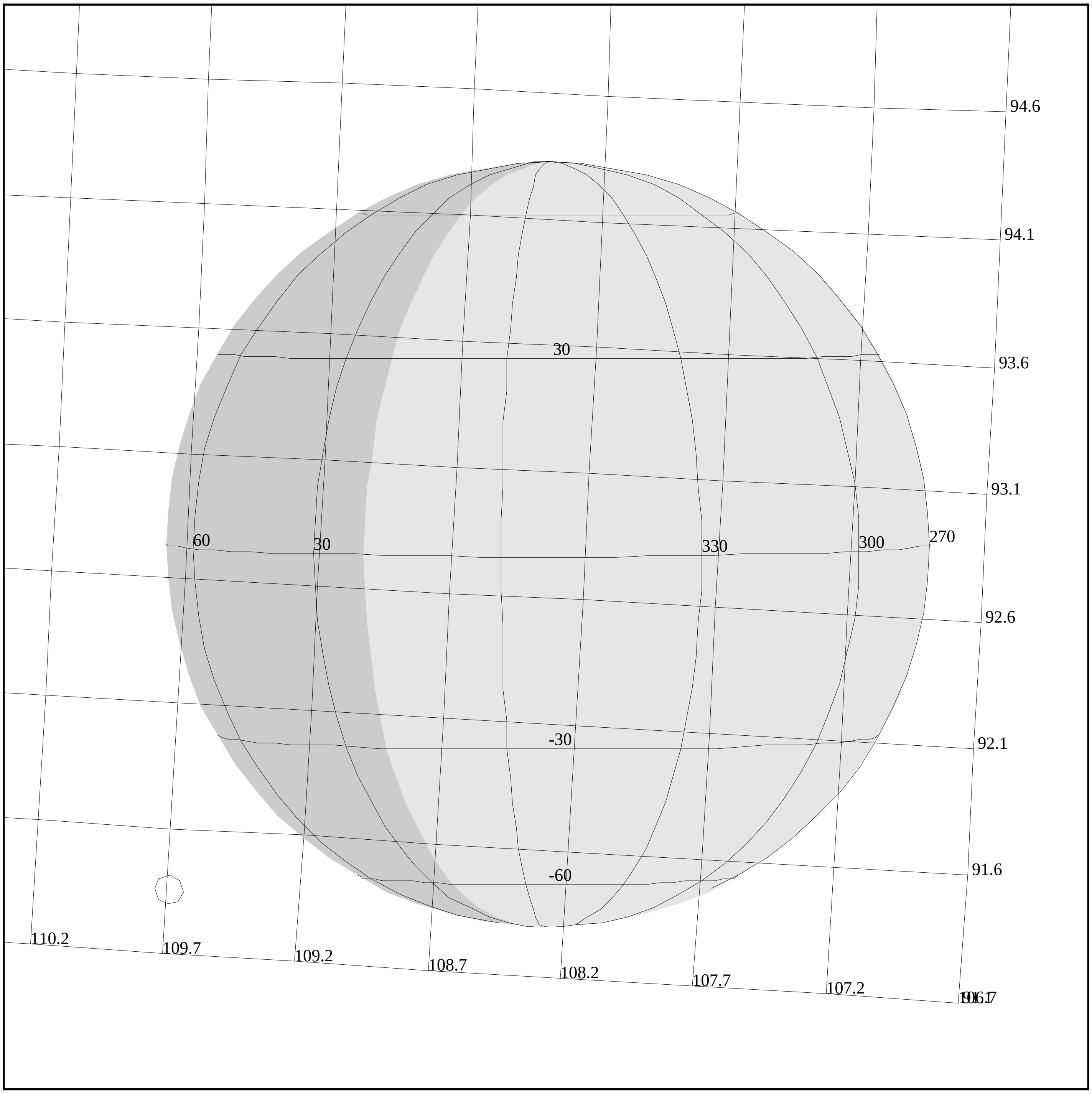
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone feature near 276.6 degrees West longitude, 14 degrees North latitude. S/C distance about 0.90 million KM, NIMS IFOV (NIMSEL) = 450 KM; 1*1 mosaic covers 9000*9000 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 25 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTG. This observation’s ending time has been extended to cover the available time for timing changes in the update period. The observation still has the same starting time, design and duration.
(Original time is JTF-cds 48 to -cds 42)

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7FJT19A

Galileo Activity Plan Form 03/17/97 17:37:37 rev 6/95



165HC:TT=   0 TMC= 1 C=   5.50 XC=   24.50 BS= 0/8307 TC= 3
A= 728 pD=   0 SR=17.450 RA50=241.13 DEC50=-23.31 cone=108.67 clock= 94.35
117HC:#SB= 1 OR= 0.430 RR= 9.400 BM=F RC= 1 BS= 0/8307
1:#s= 45 Cs=   22.50 XCs=   0.00 Cr= -22.65 XCr=   -1.55 sD=   164 rD=   18

G7NNHEALTH06

TARGET G3.1 lisac: 5/ 6/1997 14:36: 6

FILE:P.G7GPDRKMAP01

TARGET BODY :   GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

F_R_O_Z_E_N___T_M_C

PERIAPSIS:

THINNING: :PPR   1

START:GEE 97-095/07:10:03.666   -CDS 206:00:0

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

OBSERVATION:G7GPDRKMAP01

DESCRIP:Ganymede Dark Map 1

NIMS Health Observation	ACTIVITY ID: G7NNHEALTH06-
	START TIME: 97-095/04:09:04.266

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 06 -

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

Time System CDS Load ID Calendar Date 04/05/97 Week 14

Start	JTD-CDS	00000873:00:0	97-095/04:09:04.266	JTD-000/14:42:42.000
End	JTD-CDS	00000868:00:0	97-095/04:14:07.600	JTD-000/14:37:38.666
Duration		00000005:00:0	000/00:05:03.334	000/00:05:03.334

Top Label G7NNHEALTH06-
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

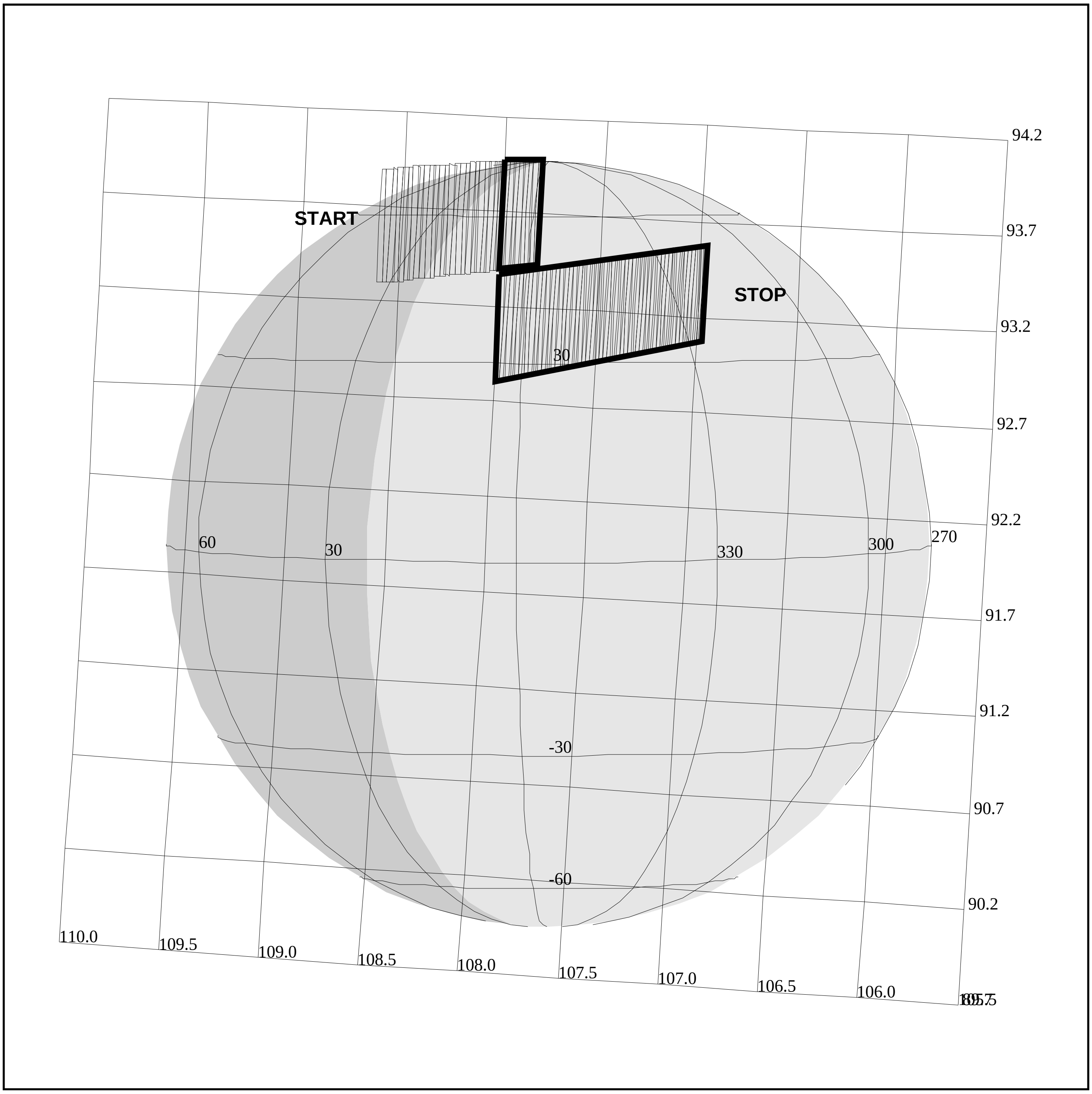
Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced frequently to monitor the health of the NIMS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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form 03/17/97 17:37:37 rev 6/95



165FV:TT= 0 TMC= 1 C= 19.70 XC= 6.00 BS= 0/7589 TC= 1(40 345)
A= 728 pD= 0 SR=17.450 RA50=240.93 DEC50=-23.98 cone=108.64 clock= 93.57
117FV:#SB= 2 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7589
1:#s= 1 Cs= -16.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1638 rD= 2
2:#s= 1 Cs= -25.00 XCs= 0.00 Cr= 3.00 XCr= -11.00 sD= 2514 rD= 32

G7GNNHILAT01

TARGET G3.1 lisac: 5/ 6/1997 14:36: 6

FILE:P.G7GNNHILAT01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:GEE 97-095/07:10:03.666 -CDS 155:00:0

OBSERVATION:G7GNNHILAT01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:Ganymede_N._High_Lat_Reg_Map

Ganymede North High Latitude Region Map	ACTIVITY ID:	G7GNNHILAT01-
	START TIME:	97-095/04:28:17.000

Activity ID: Orbit G7 Target G Inst N OAPEL NHILAT SeqNo 01 -

Title	Ganymede North High Latitude Region Map			Instrument	NIMS
Requestor	NIMS-SWG/J. Hui 3-1224	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/05/97	Week 14

Start	GEE-CDS	00000160:00:0	97-095/04:28:17.000	GEE-000/02:41:46.666
End	GEE-CDS	00000125:00:0	97-095/05:03:40.333	GEE-000/02:06:23.333
Duration		00000035:00:0	000/00:35:23.333	000/00:35:23.333

Top Label G7GNNHILAT01-
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

Joint observation with UVS to study Ganymede's high latitude region and to study composition distribution and high latitude effects, such as the polar shroud.

Data Returned

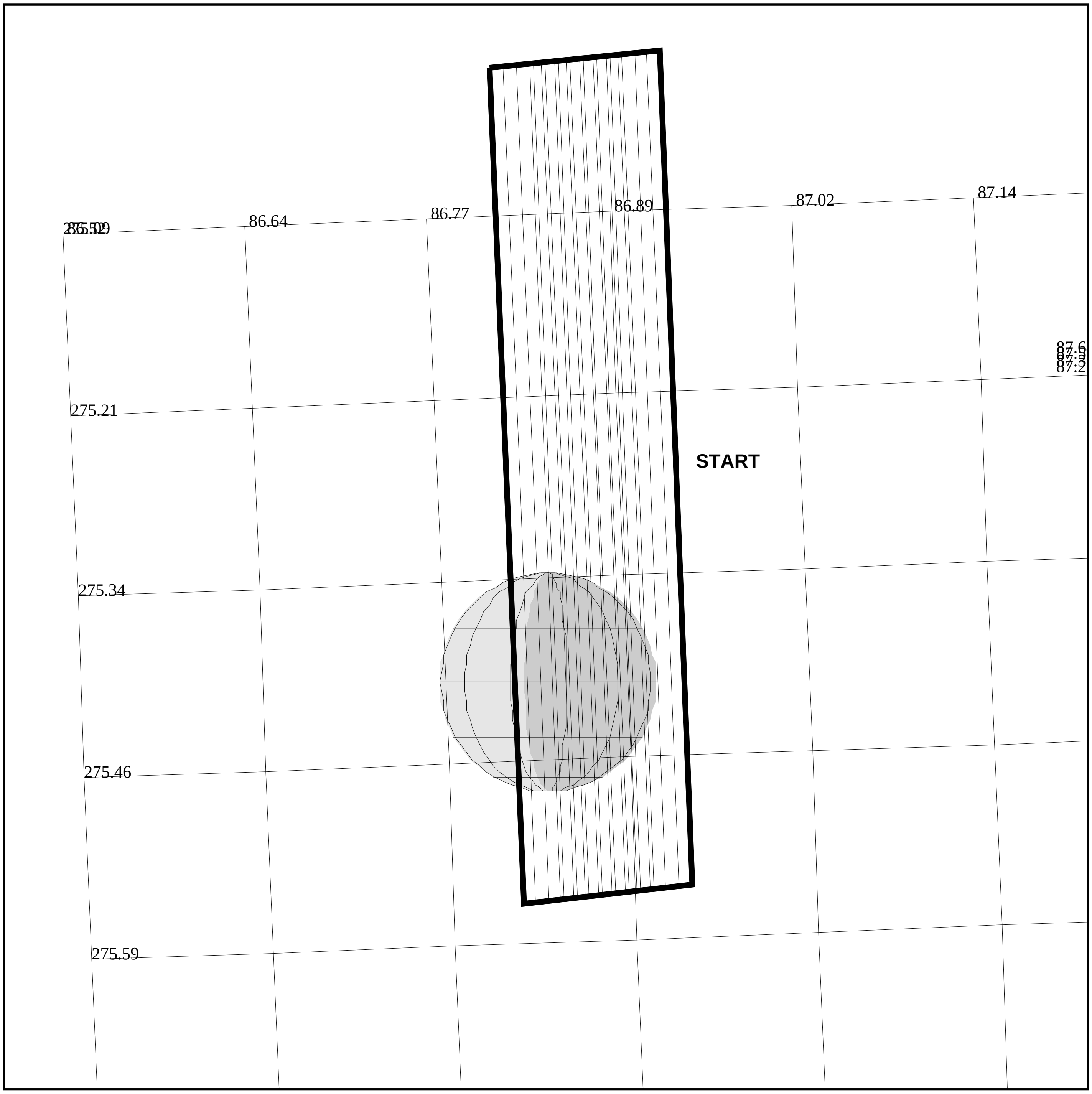
Design Detail

Target center is longitude 345 degrees, latitude is 40 degrees north. NIMS in LM, slew rate 0.03 mrad/sec. CSMOS duration is 23 RIMS.

Record mode = LPU.
Playback = 204 wavelengths.
Gain state = 3.
Only the second swath will be played back.

Long Map (LM), Gain 3, Grating Start 0, LPU, G7GLM244H, G7GLM192

Galileo Activity Plan Form   03/17/97 17:37:37   rev 6/95



165EW:TT= 0 TMC= 1 C= 1.40 XC= -2.50 BS= 0/4141 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 44.91 DEC50= 19.13 cone= 86.92 clock=275.26
117EW:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4141
1:#s= 1 Cs= -5.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 554 rD= 2

G7INTHRMAL06

TARGET G3.1 lisac: 5/ 6/1997 14:36: 6

FILE:P.G7INTHRMAL06

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-093/21:11:39.733 +CDS 1897:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.200**

OBSERVATION:G7INTHRMAL06 **DESCRIP:Io Nightside Monitoring 06**

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID:	G7INTHRMAL06-
	START TIME:	97-095/05:04:41.066

Activity ID: Orbit G7 Target I Inst N OAPEL THRMAL SeqNo 06 -

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	04/05/97	Week	14

Start	IEE+CDS	00001892:00:0	97-095/05:04:41.066	IEE+001/07:53:01.333
End	IEE+CDS	00001903:00:0	97-095/05:15:48.399	IEE+001/08:04:08.666
Duration		00000011:00:0	000/00:11:07.333	000/00:11:07.333

Top Label	G7INTHRMAL06-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	156	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.

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: 102,
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, G7ILMDK244B, G7ILMDK216B

Galileo Activity Plan Form   03/17/97 17:37:37   rev 6/95

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NIMS Software Load — ACTIVITY ID: G7NNNIMSLD14- — START TIME: 97-095/06:06:21.666

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 14 -

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

Time System	CDS	Load ID		Calendar Date	04/05/97	Week	14

Start	GTE-CDS	00000063:00:0	97-095/06:06:21.666	GTE-000/01:03:42.000
End	GTE-CDS	00000053:80:0	97-095/06:15:35.000	GTE-000/00:54:28.666
Duration		00000009:11:0	000/00:09:13.334	000/00:09:13.334

Top Label G7NNNIMSLD14-
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.

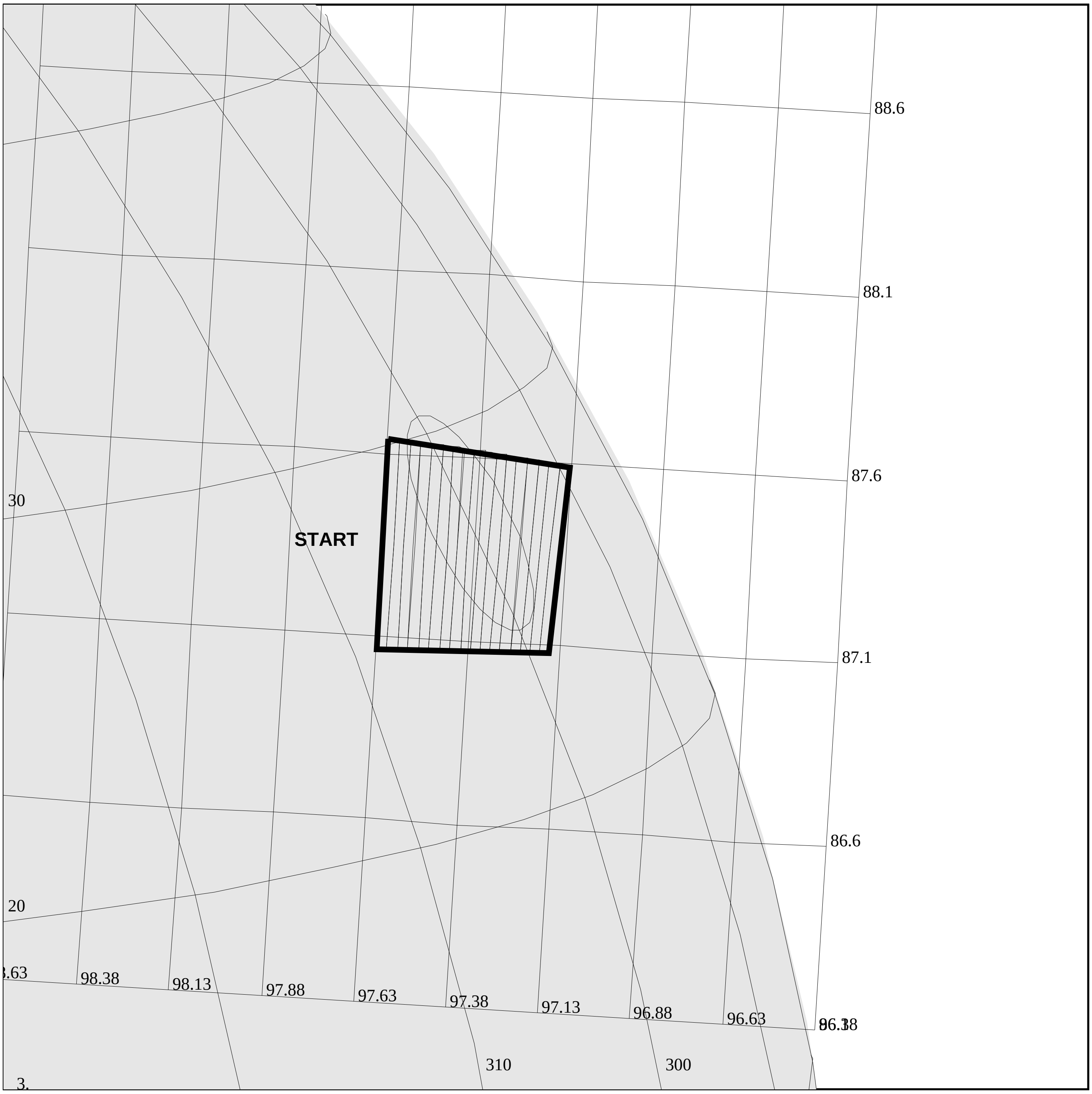
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS, instrument restart, and operational mode set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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   03/17/97 17:37:37   rev 6/95



165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6881 TC= 1(27.5 305.0)
A= 728 pD= 854 SR=17.450 RA50=227.63 DEC50=-27.85 cone= 97.62 clock= 87.38
117EX:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/6881
1:#s= 1 Cs= -8.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 854 rD= 2

G7GNBRITRL01

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7GNBRITRL01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:GTE 97-095/07:10:03.666 -CDS 49:00:0

OBSERVATION:G7GNBRITRL01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 854 S= 4.000

DESCRIP:Crater on bright/dark boundary

BRIGHT ENDMEMBER FROM TRAIL HEMISPHERE   ACTIVITY ID: G7GNBRITRL01-
START TIME: 97-095/06:15:54.333

Activity ID: Orbit G7 Target G Inst N OAPEL BRITRL SeqNo 01 -

Title	BRIGHT ENDMEMBER FROM TRAIL HEMISPHERE	Instrument	NIMS
Requestor	NIMS-SWG/JHUI Team NIMS	Working Group	SWG

Time System CDS   Load ID   Calendar Date 04/05/97 Week 14

Start	GTE-CDS 00000053:51:0	97-095/06:15:54.333	GTE-000/00:54:09.333
End	GTE-CDS 00000044:00:0	97-095/06:25:34.333	GTE-000/00:44:29.333
Duration	00000009:51:0	000/00:09:40.000	000/00:09:40.000

Top Label G7GNBRITRL01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	179	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Unmixing of global spectra will require endmember spectra of both dark and bright material. This can vary due to radiation damage on the trailing hemisphere. This observation looks at the bright material, which is for global unmixing as well as identifying radiation products on the trailing hemisphere.

Data Returned

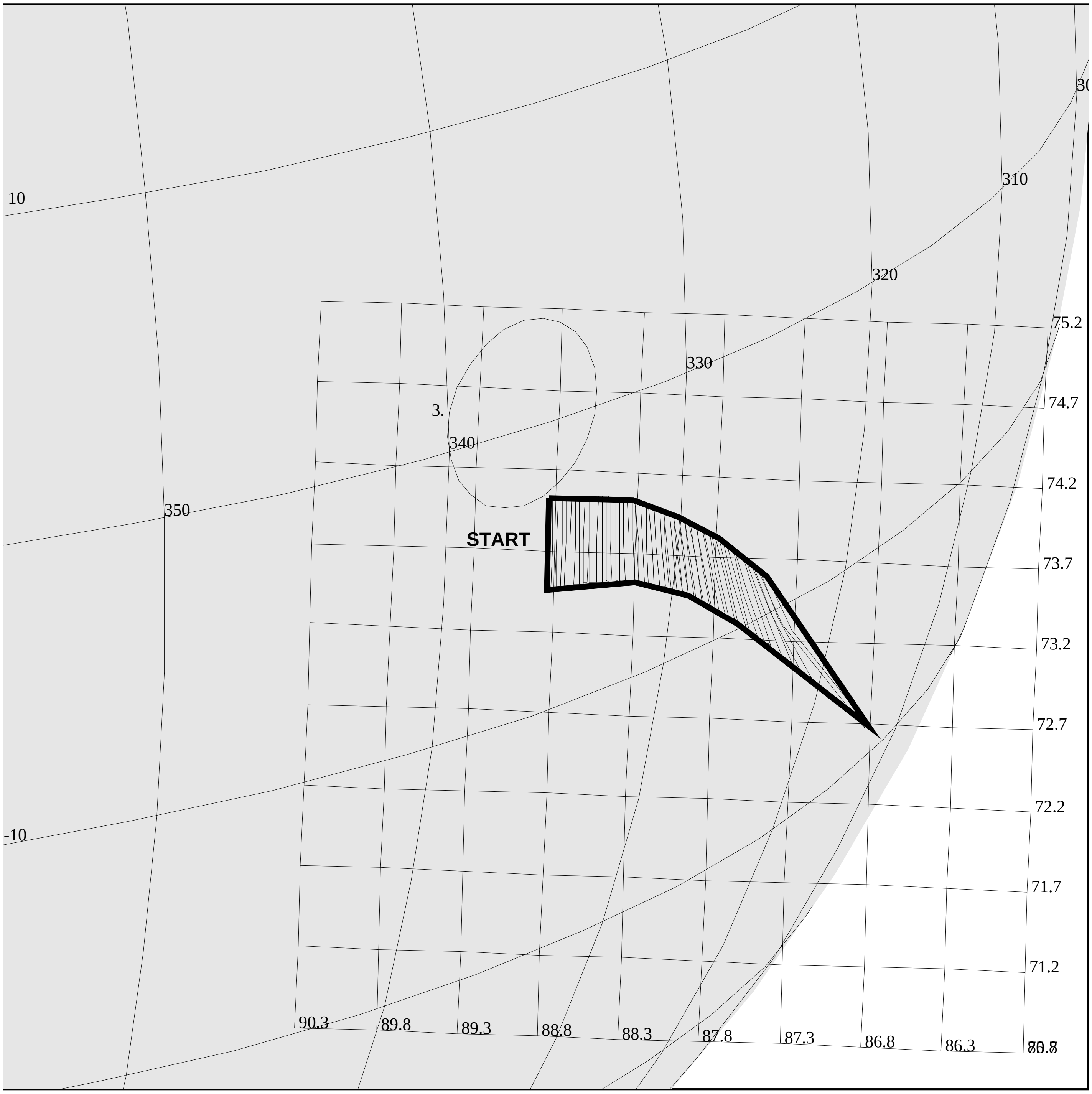
Design Detail

One continuous slew across the bright area of latitude 25.5 to 27.5 degrees and longitude 294.5 to 305 degrees. The slew rate is 0.03 mrad/sec.

Spatial resolution: <11 km/NIMSel>   Phase: <74 deg>
Incident angle: <27-30 deg>   Emission angle: <63-74deg>
NIMS: Mode:LM   Gain: 3
Chopper:Reference   Grating Start Postion: 0
Grating offset: 4   # Wavelengths: 408 recorded and 408 playback
Record Format: MPW

Long Map (LM), Gain 3, Grating Start 0, MPW, G7GLM442, G7GLM360

Galileo Activity Plan Form   03/17/97 17:37:37   rev 6/95



165EY:TT= 0 TMC= 1 C= 10.00 XC= 0.00 BS= 0/0885 TC= 1(0.5 337.0)
A= 182 pD= 2102 SR=17.450 RA50=212.96 DEC50=-38.40 cone= 88.83 clock= 73.78
117EY:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/0885
1:#s= 1 Cs= -20.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 2102 rD= 2

G7GNKITTU_01

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7GNKITTU_01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:GTE 97-095/07:10:03.666 -CDS 27:00:0

OBSERVATION:G7GNKITTU_01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2102 S= 3.000

DESCRIP:DARK RAYED CRATER

Dark Rayed crater KITTU	ACTIVITY ID:	G7GNKITTU_01-
	START TIME:	97-095/06:40:44.333

Activity ID: Orbit G7 Target G Inst N OAPEL KITTU_ SeqNo 01 -

Title	Dark Rayed crater KITTU			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 04/05/97 Week 14

Start	GTE-CDS	00000029:00:0	97-095/06:40:44.333	GTE-000/00:29:19.333
End	GTE-CDS	00000015:00:0	97-095/06:54:53.666	GTE-000/00:15:10.000
Duration		00000014:00:0	000/00:14:09.333	000/00:14:09.333

Top Label G7GNKITTU_01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	158	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Study modification of material in impact crater Kittu, mineralogy of impactor, modification of area adjacent to moderate albedo units.

Data Returned

Design Detail

One Continuos slew across the crater Kittu at latitude=-0.5 deg and longitude=335 deg.

Slew rate is 0.03 mrad/sec.	Spatial resolution: <5 km/nimsel>
Phase: <80-97 deg>	Incident angle: < 37-44 deg>
Emission angel: <39-61 deg>	NIMS Mode: LM
Gain: 3	Chopper:Reference
Grating Start Position: 0	Grating offset:4
# wavelengths: 204 recorded and 204 playback	Record Format: MPW

Long Map (LM), Gain 3, Grating Start 0, MPW, G7GLM442, G7GLM360

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AWG Feature Track Window No. 3	ACTIVITY ID: G7JNAWGWIN03 START TIME: 97-095/09:53:51.667

Activity ID: Orbit G7 Target J Inst N OAPEL AWGWIN SeqNo 03

Title	AWG Feature Track Window No. 3			Instrument	NIMS
Requestor	NIMS-AWG/J. CULWELL	Team	RSSG	Working Group	AWG

Time System EPOCH Load ID G7A Calendar Date 04/05/97 Week 14

Start	JEE+CDS	00001354:90:0	97-095/09:53:51.667	JEE+000/22:50:03.267
End	JEE+CDS	00001921:74:0	97-095/19:26:58.400	JEE+001/08:23:10.000
Duration		00000566:75:0	000/09:33:06.733	000/09:33:06.733

Top Label
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

This window is designed to protect AWG observations if there is target time adjustments before the final sequence integration.

Design Detail

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95

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NIMS Software Load				ACTIVITY ID:	G7NNNIMSLD15-
				START TIME:	97-095/14:09:40.332

Activity ID: Orbit G7 Target N Inst N OAPEL NIMSLD SeqNo 15 -

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

Time System	CDS	Load ID		Calendar Date	04/05/97	Week	14

Start	GEE+CDS	00000415:00:0	97-095/14:09:40.332	GEE+000/06:59:36.666
End	GEE+CDS	00000425:00:0	97-095/14:19:46.999	GEE+000/07:09:43.333
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	G7NNNIMSLD15-
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.

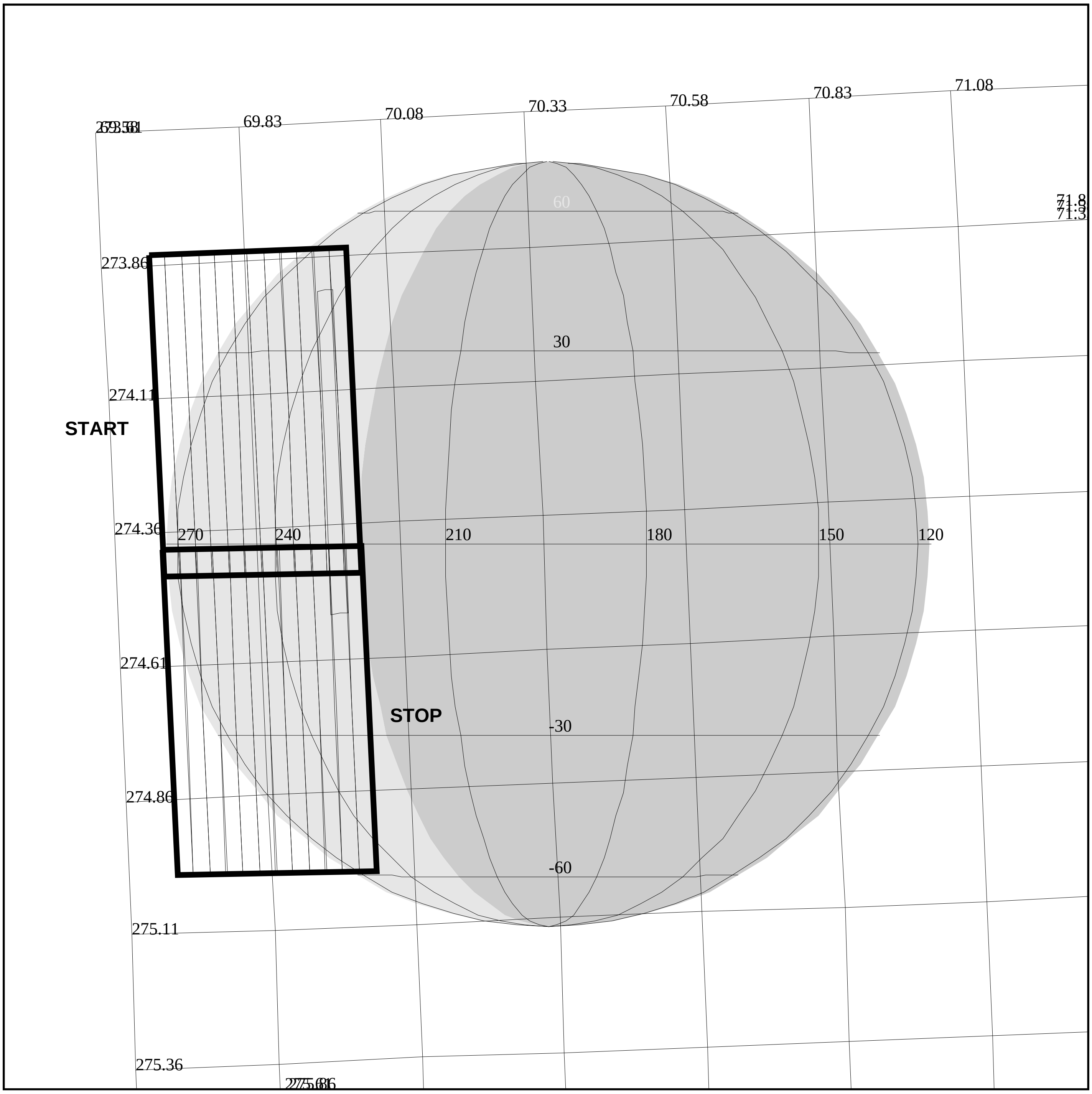
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitiate the instrument.

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   03/17/97 17:37:38   rev 6/95



165FC:TT= 0 TMC= 1 C= -12.20 XC= -4.50 BS= 0/4059 TC= 3
A= 728 pD= 1288 SR=17.450 RA50= 62.86 DEC50= 23.67 cone= 69.65 clock=274.16
117FC:#SB= 1 OR= 0.030 RR= 2.000 BM=F RC= 1 BS= 0/4059
1:#s= 2 Cs= 6.28 XCs= 0.00 Cr= -6.30 XCr= 9.00 sD= 632 rD= 24

G7GNGLOBAL02

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7GNGLOBAL02

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:GEE 97-095/07:10:03.666 +CDS 430:00:00

OBSERVATION:G7GNGLOBAL02

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

BODY PLOT TIME:END-TIME D= 1288 S= 0.700

DESCRIP:Ganymede Global Map 02

GANYMEDE GLOBAL SURFACE MAP	ACTIVITY ID:	G7GNGLOBAL02-
	START TIME:	97-095/14:20:34.332

Activity ID: Orbit G7 Target G Inst N OAPEL GLOBAL SeqNo 02 -

Title	GANYMEDE GLOBAL SURFACE MAP			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/05/97	Week	14

Start	GEE+CDS	00000425:71:0	97-095/14:20:34.332	GEE+000/07:10:30.666
End	GEE+CDS	00000438:00:0	97-095/14:32:55.666	GEE+000/07:22:52.000
Duration		00000012:20:0	000/00:12:21.334	000/00:12:21.334

Top Label	G7GNGLOBAL02-
Bottom Label	NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	166	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain high spectral resolution map of the satellite surface. This observation investigates the surface mineralogy and distribution of compositional units in a global context. The global map can be use to compare Ganymede to the other satellites to look for similarity and differences. The longitude coverage is 225 to 270 degrees.

Data Returned

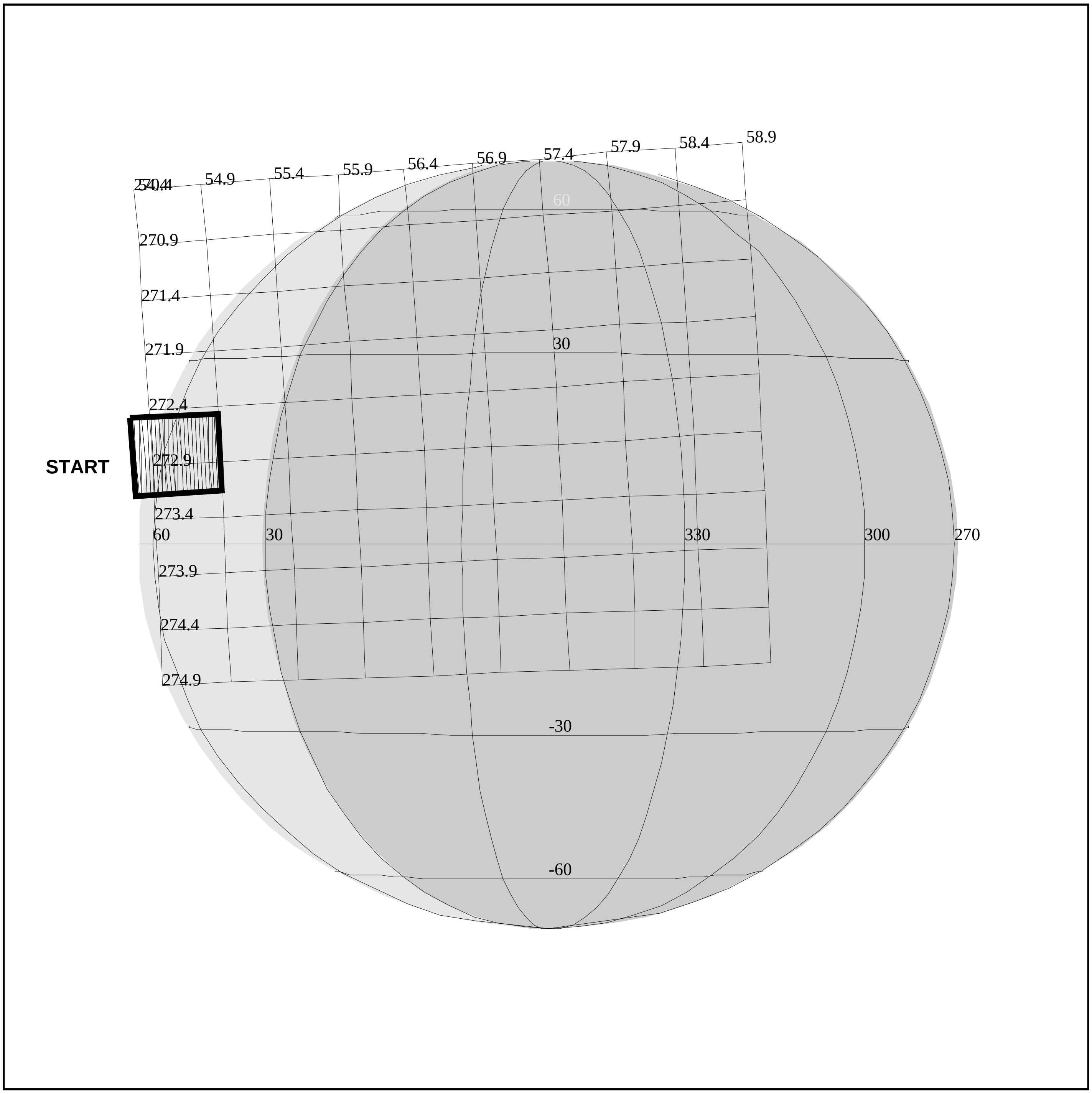
Design Detail

This the third of 5 global observations to cover all longitudes. Continuous slew mosaic over lit surface in the longitude range ~225 to 270 degrees. Scan platform slew rate is 0.03 mrad/sec, to achieve Nyquist sampling rate. This observation consists of two swaths, scanning from west to east and north to south.

Spatial resolution: <110> km/NIMSel	Phase: <120> degress
Incident angle: <35 to 84> deg.	Emission angle: <40 to 90> deg.
NIMS MODE: LM (Long Map)	Gain State: 3
Chopper: Reference	Grating Start position:0
Grating Offset: 4	# Wavelengths: 204 record and 204 playback
Record Format: MPW.	

Long Map (LM), Gain 3, Grating Start 0, MPW, G7GLM442, G7GLM360

Galileo Activity Plan Form   03/17/97 17:37:38   rev 6/95



165EZ:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/8447 TC= 1(14 65)
A= 728 pD= 0 SR=17.450 RA50= 79.65 DEC50= 26.00 cone= 54.29 clock=272.83
117EZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8447
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA13001

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA13001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTD 97-095/18:51:46.266 -CDS 130:00:0

OBSERVATION:G7JNFEA13001

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_130_DEG_PHASE_01

Jupiter Feature Track 130 deg phase pt 1 ACTIVITY ID: G7JNFEA13001-
START TIME: 97-095/16:35:16.266

Activity ID: Orbit G7 Target J Inst N OAPEL FEA130 SeqNo 01 -

Title	Jupiter Feature Track 130 deg phase pt 1	Instrument	NIMS		
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/05/97	Week	14

Start	JTD-CDS	00000135:00:0	97-095/16:35:16.266	JTD-000/02:16:30.000
End	JTD-CDS	00000128:00:0	97-095/16:42:20.933	JTD-000/02:09:25.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G7JNFEA13001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the feature tracks for this North Tropical Zone feature campaign at 14 degrees North, 65 degrees West. This is the first observation obtained on a rotation with phase angle approximately 135 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with North Tropical Zone feature near the bright limb, assuming feature coordinates 14 degrees north latitude and 65 degrees west longitude (System III).

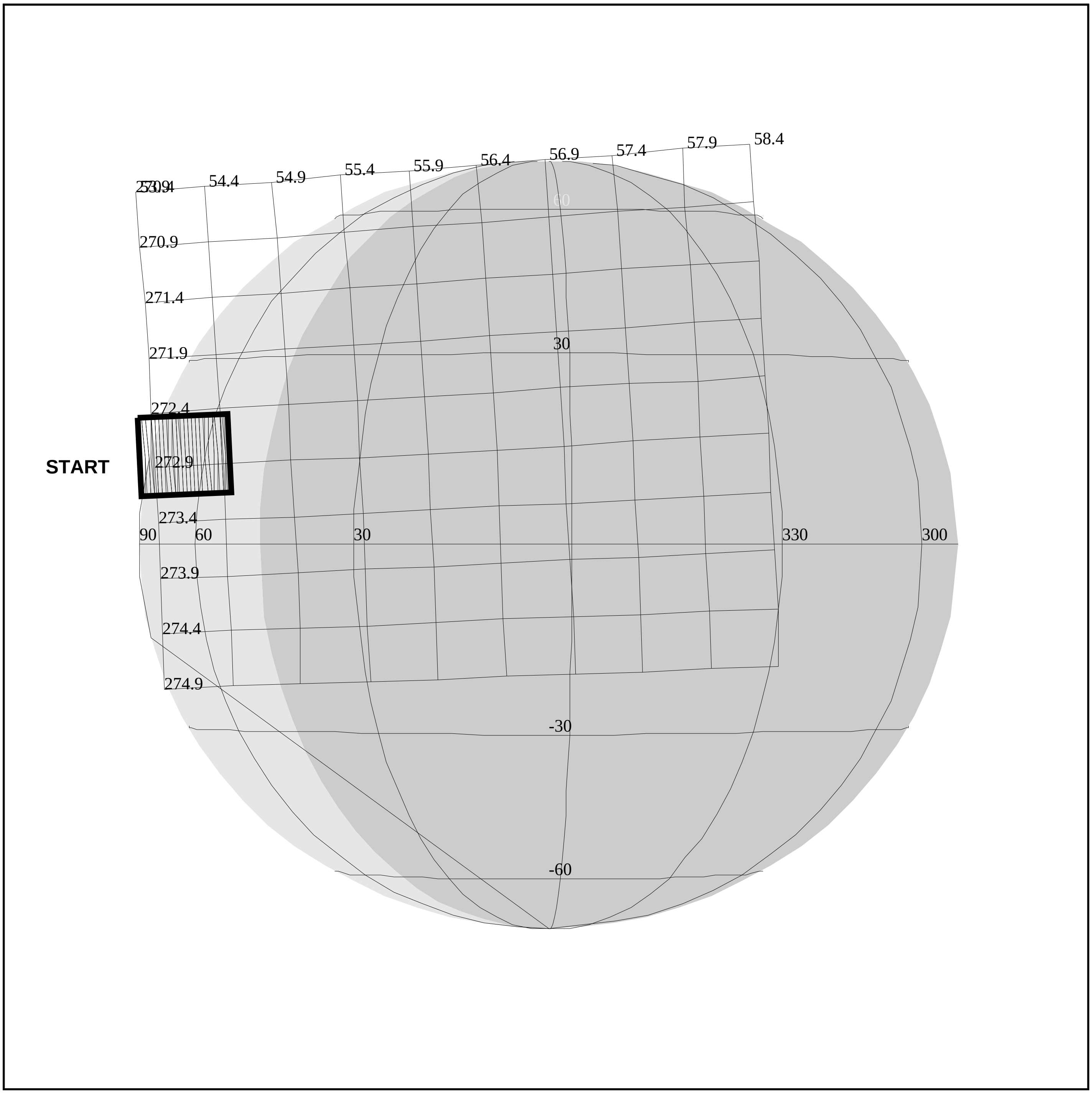
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on Brown Barge feature near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 1.33 million KM, NIMS IFOV (NIMSEL) = 665 KM; 1*1 mosaic covers about 13300*13300 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 15 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTD.
NOTE 2/17/97: Colors cut back to 4 to meet downlink budget.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68B, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FA:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/2997 TC= 1(14 65)
A= 182 pD= 0 SR=17.450 RA50= 80.18 DEC50= 26.03 cone= 53.82 clock=272.79
117FA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2997
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA13002

TARGET G3.1 lisac: 4/15/1997 10:52:30

FILE:P.G7JNFEA13002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTD 97-095/18:51:46.266 -CDS 105:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA13002 **DESCRIP:JUP_FEA_TRK_130_DEG_PHASE_02**

Jupiter Feature Track 130 deg phase pt 2 ACTIVITY ID: G7JNFEA13002-
START TIME: 97-095/17:01:33.600

Activity ID: Orbit G7 Target J Inst N OAPEL FEA130 SeqNo 02 -

Title	Jupiter Feature Track 130 deg phase pt 2		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/05/97 Week 14

Start	JTD-CDS 00000109:00:0	97-095/17:01:33.600	JTD-000/01:50:12.666
End	JTD-CDS 00000103:00:0	97-095/17:07:37.600	JTD-000/01:44:08.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G7JNFEA13002-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the feature tracks for the North Tropical Zone feature campaign. This is the second observation obtained on a rotation with phase angle approximately 135 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with feature near minimum airmass, assuming feature coordinates 14 degrees north latitude and 65 degrees west longitude (System III).
Original Times: Start CDS = 1521:24 End CDS = 1527:24 Duration = 6:00

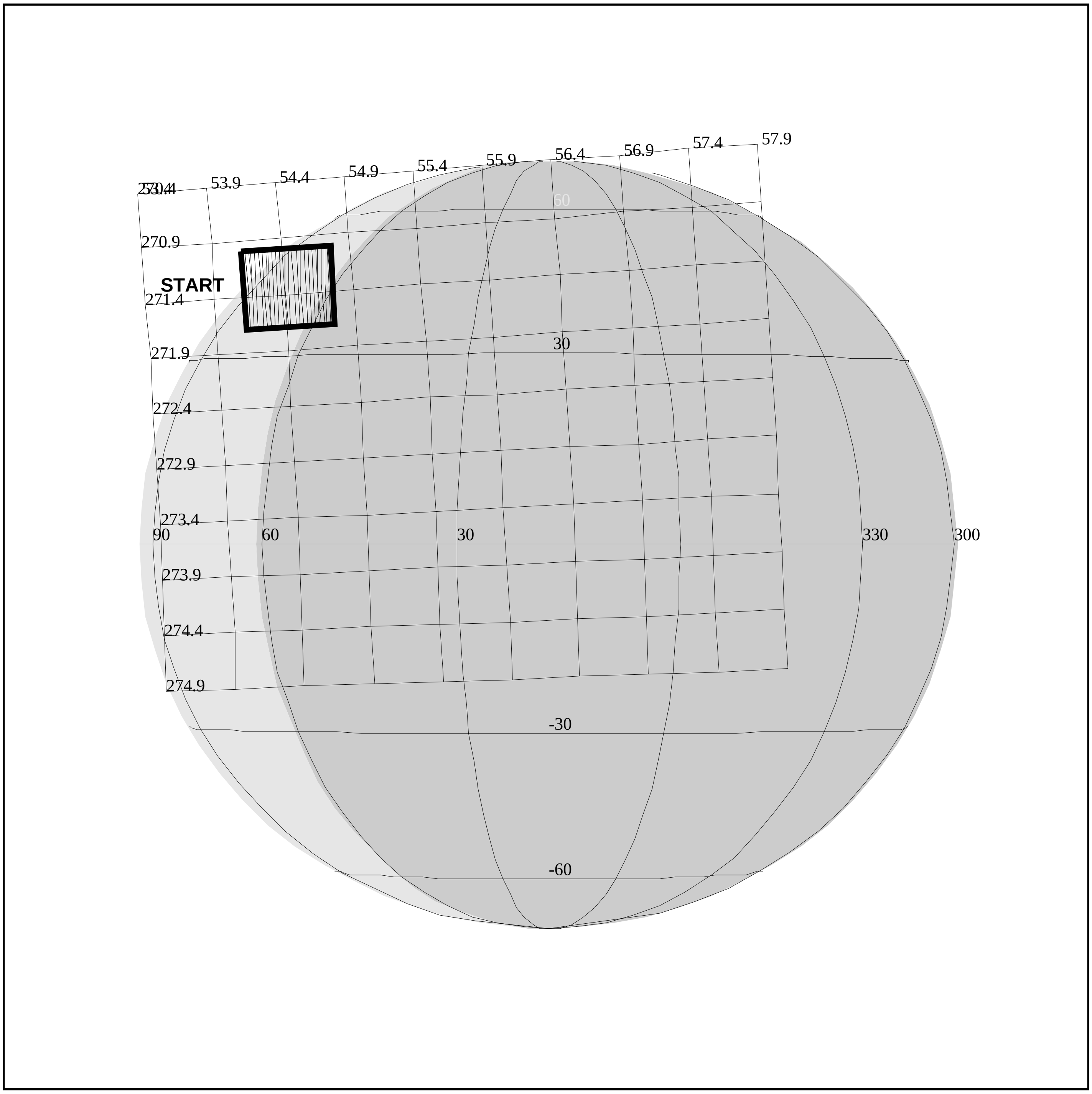
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 1.33 million KM, NIMS IFOV (NIMSEL) = 665 KM; 1*1 mosaic covers about 13300*13300 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 15 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTD.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68B, G7JFT15A

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FB:TT= 0 TMC= 1 C= -9.00 XC= 0.00 BS= 0/7547 TC= 1(43 65)
A= 728 pD= 0 SR=17.450 RA50= 79.85 DEC50= 27.24 cone= 54.12 clock=271.30
117FB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7547
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFB13001

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFB13001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTD 97-095/18:51:46.266 -CDS 80:00:0

OBSERVATION:G7JNPFB13001

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_130_DEG_PHASE_03

Jupiter Feature Track 130 deg phase	ACTIVITY ID: START TIME:	G7JNPFB13001- 97-095/17:25:49.600	

Activity ID: Orbit G7 Target J Inst N OAPEL PFB130 SeqNo 01 -

Title	Jupiter Feature Track 130 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/05/97 Week 14

Start	JTD-CDS	00000085:00:0	97-095/17:25:49.600	JTD-000/01:25:56.666
End	JTD-CDS	00000078:00:0	97-095/17:32:54.266	JTD-000/01:18:52.000
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G7JNPFB13001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of seven OAPELs constituting the 43 degrees North Little Red Spot feature campaign (Feature B). This is the only observation obtained on a rotation with phase angle approximately 135 degrees. Feature B imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with feature near the evening terminator, assuming feature coordinates 20 degrees north latitude and 65 degrees west longitude (System III). Original Times: Start CDS = 1555:80 End CDS = 1561:80 Duration = 6:00

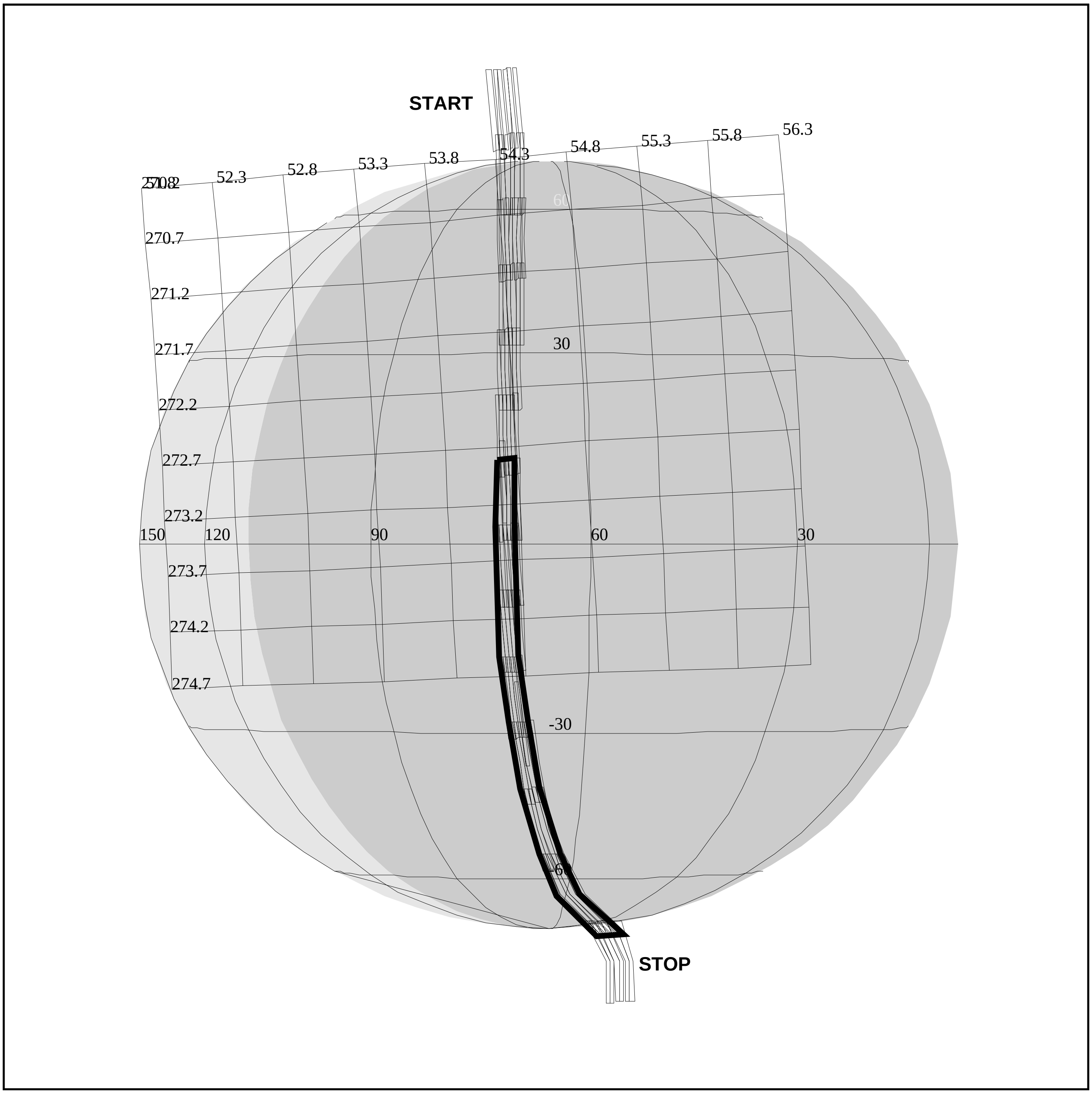
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Temperate Zone feature C near 65 degrees West longitude, 43 degrees North latitude. S/C distance about 1.33 milllion KM, NIMS IFOV (NIMSEL) = 665 KM; 1*1 mosaic covers 13300*13300 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 15 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JTD.
NOTE 2/25/97: Observation re-targetted toward the limb to obtain 81 degrees longitude (new predicted location of LRS).

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68B, G7JFT15A

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FD:TT= 0 TMC= 1 C= -6.00 XC= -6.80 BS= 0/2289 TC= 1(85 71)
A= 728 pD= 0 SR=17.450 RA50= 79.68 DEC50= 28.49 cone= 54.29 clock=269.76
117FD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2289
1:#s= 14 Cs= 2.85 XCs= 0.00 Cr= -3.10 XCr= 8.00 sD= 290 rD= 36

G7JNTHRMNS01

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNTHRMNS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTD 97-095/18:51:46.266 +CDS 01:00:0

OBSERVATION:G7JNTHRMNS01

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_THERMAL_N/S_STRIPE

Jupiter Thermal North South Stripe ACTIVITY ID: G7JNTHRMNS01-
START TIME: 97-095/18:48:44.266

Activity ID: Orbit G7 Target J Inst N OAPEL THRMNS SeqNo 01 -

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

Time System CDS Load ID Calendar Date 04/05/97 Week 14

Start	JTD-CDS	00000003:00:0	97-095/18:48:44.266	JTD-000/00:03:02.000
End	JTD+CDS	00000028:00:0	97-095/19:20:04.932	JTD+000/00:28:18.666
Duration		00000031:00:0	000/00:31:20.666	000/00:31:20.666

Top Label G7JNTHRMNS01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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 135 degree phase angle opportunity near 17Rj, using NIMS wavelength table J5M80B spanning 4.279-5.220 microns.

Data Returned

Design Detail

Long Map, Nyquist sampled observation of central meridian from pole to pole at 65 degrees west longitude. About 14 tiers, each tier acquiring 9 spectra, spanning 2.0 mradians in the east-west direction covering 1.5 degrees of Jovian longitude. Each tier lasts 95.33 seconds including 17.333 sec for repositioning to the next tier. Total observations time is 15*95.333+9*8.6667=1508 seconds=00:25:08 resulting in recording 0.05066 tracks to return 1.519 Mbtg. 4 rims reserved for targeting.

Note: 1/23/97: Epoch change of +4 hours results in decreased spatial resolution. S/C distance is now 20 Rj (vs 17 in 1995). Only 12 tiers needed to span planet pole to pole.

NOTE 2/25/97: Playback reduced to 300 seconds to meet downlink budget.

NOTE 2/25/97: Observation re-targetted to 71 degrees West longitude at 6.5 degrees North latitude to encompass PPR Hotspot feature.

Long Map (LM), Gain 4, Grating Start 0, LPU, G7J5M253B, G7J5M80B
Long Map (LM), Gain 4, Grating Start 0, LPU, G7J5M253B, G7J5253B

Galileo Activity Plan Forme 03/17/97 17:37:38 rev 6/95

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AWG Feature Track Window #4	ACTIVITY ID:	G7JNAWGWIN04
	START TIME:	97-095/19:28:48.400

Activity ID: Orbit G7 Target J Inst N OAPEL AWGWIN SeqNo 04

Title	AWG Feature Track Window #4			Instrument	NIMS
Requestor	NIMS-AWG/J. CULWELL	Team	RSSG	Working Group	AWG

Time System EPOCH Load ID G7A Calendar Date 04/05/97 Week 14

Start	JEE+CDS	00001923:57:0	97-095/19:28:48.400	JEE+001/08:25:00.000
End	JEE+CDS	00003140:25:0	97-096/15:58:58.400	JEE+002/04:55:10.000
Duration		00001216:59:0	000/20:30:10.000	000/20:30:10.000

Top Label
Bottom Label

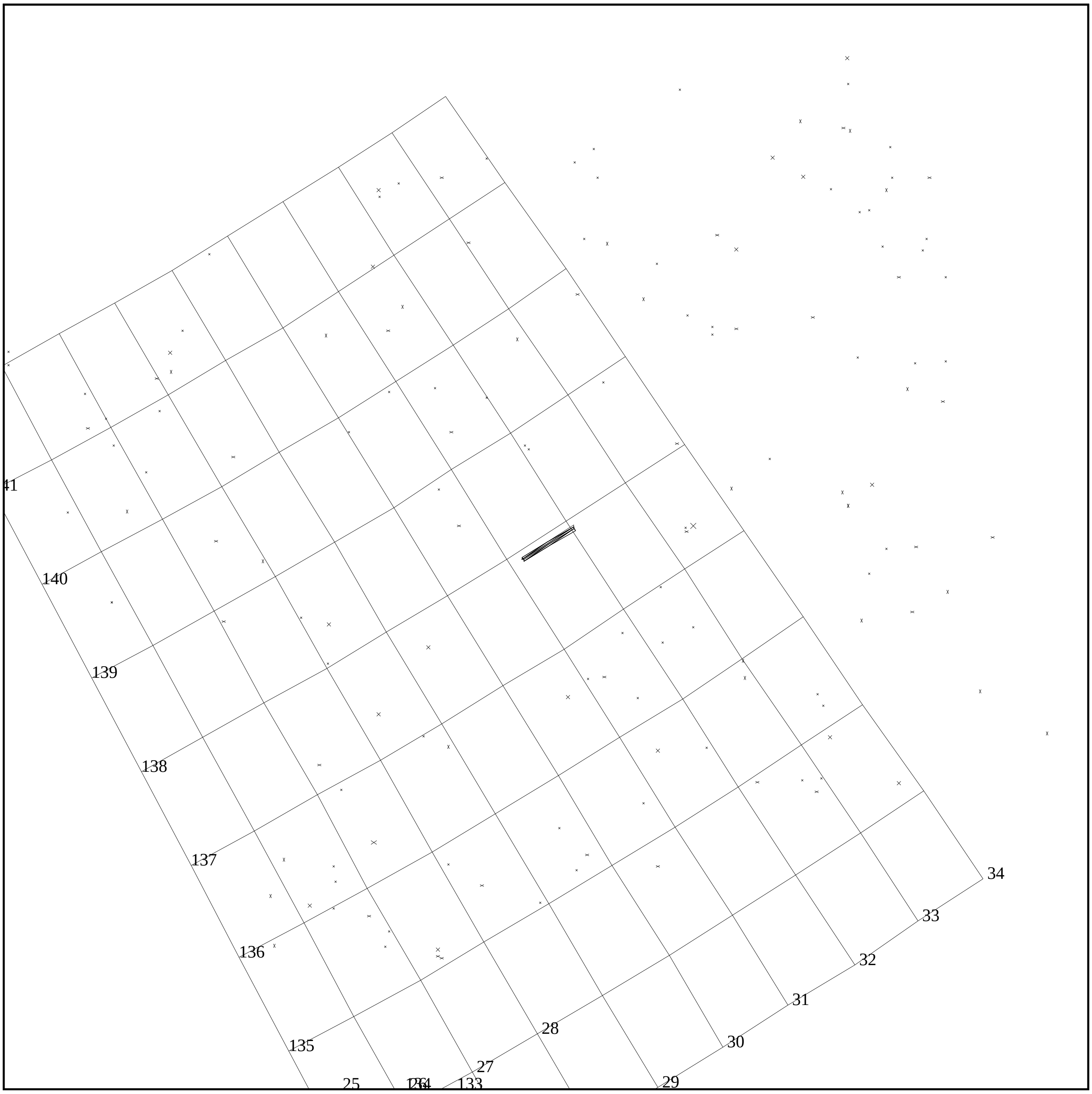
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This window is designed to protect AWG observations if there is target time adjustmens before the final sequence integration.

Design Detail

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3077 TC=15(-56.63 307.93)
A= 728 pD= 0 SR=17.450 RA50=307.93 DEC50=-56.63 cone=137.91 clock= 31.60

G7HNDARK__04

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 1**

START:JTB 97-093/22:40:38.400 +CDS 2957:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:G7HNDARK__04 **DESCRIP:NIMS Dark Sky 04**

Dark Observation		ACTIVITY ID:	G7HNDARK__04-
		START TIME:	97-096/00:24:25.733

Activity ID: Orbit G7 Target H Inst N OAPEL DARK__ SeqNo 04 -

Title	Dark Observation			Instrument	NIMS
Requestor	NIMS-SWG/J.HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/06/97	Week 14

Start	JTB+CDS	00002951:00:0	97-096/00:24:25.733	JTB+002/01:43:47.333
End	JTB+CDS	00002959:00:0	97-096/00:32:31.066	JTB+002/01:51:52.666
Duration		00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label	G7HNDARK__04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	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 G7 orbit for purposes of calibration.

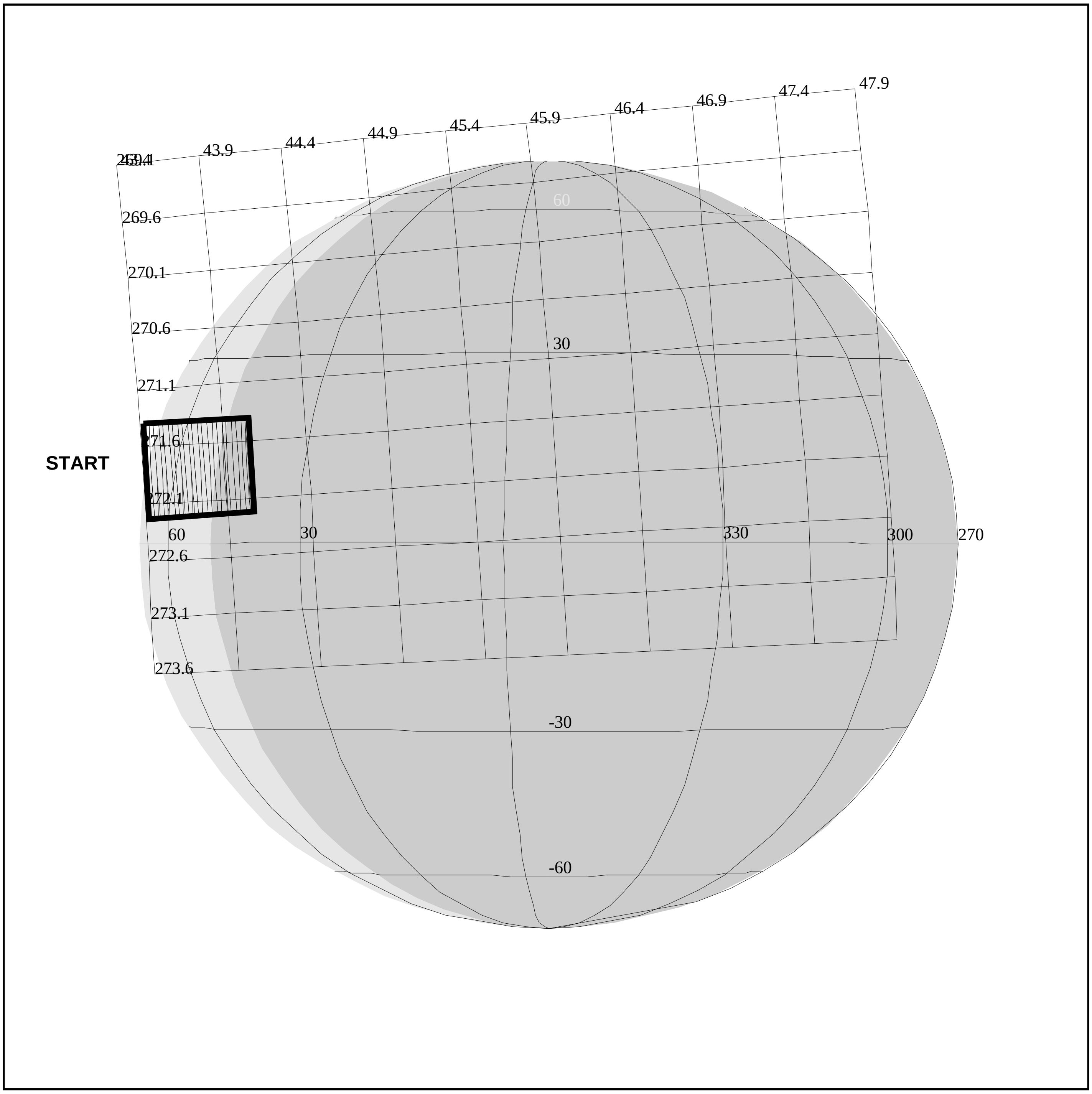
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 rim.
Observation to be done in short-map mode, gain = 2,
record mode = LPU, number of wavelengts = 51.

Long Map (LM), Gain 3, Grating Start 0, LPU, G7DRK34, G7DRK32

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FF:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/0741 TC= 1(14 65)
A= 728 pD= 0 SR=17.450 RA50= 91.79 DEC50= 26.37 cone= 43.48 clock=271.81
117FF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0741
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA14201

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA14201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 3109:00:0

OBSERVATION:G7JNFEA14201

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_142_DEG_PHASE_01

Jupiter Feature Track 142 deg phase	ACTIVITY ID:	G7JNFEA14201-
	START TIME:	97-096/02:59:07.733

Activity ID: Orbit G7 Target J Inst N OAPEL FEA142 SeqNo 01 -

Title	Jupiter Feature Track 142 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/06/97	Week 14

Start	JTB+CDS	00003104:00:0	97-096/02:59:07.733	JTB+002/04:18:29.333
End	JTB+CDS	00003111:00:0	97-096/03:06:12.400	JTB+002/04:25:34.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	G7JNFEA14201-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	128	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the feature tracks for the North Tropical Zone feature campaign. This is the only observation obtained on a rotation with phase angle approximately 146 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with North Tropical Zone feature near the bright limb, assuming feature coordinates 14 degrees north latitude and 65 degrees west longitude (System III).

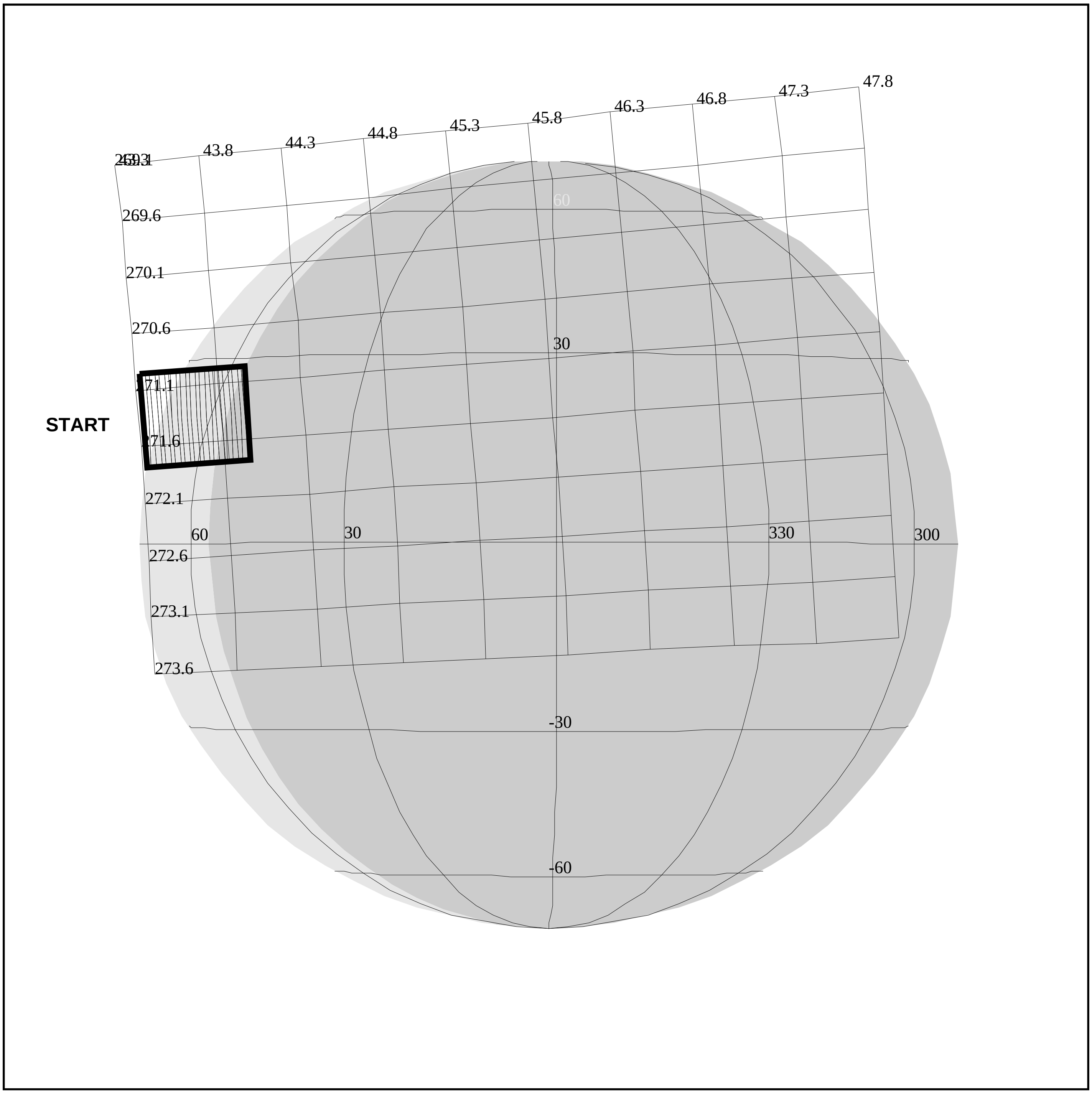
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Tropical Zone feature near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 1.61 million KM, NIMS IFOV (NIMSEL) = 805 KM; 1*1 mosaic covers 16100*16100 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTB.
NOTE 2/25/97: Feature shifted to the limb to encompass both the NIMS 65 degree West longitude feature and the SSI 81 degree West longitude feature.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:38 rev 6/95



165FG:TT= 0 TMC= 1 C= -5.40 XC= 0.00 BS= 0/2925 TC= 1(20 65)
A= 728 pD= 0 SR=17.450 RA50= 91.96 DEC50= 26.58 cone= 43.31 clock=271.34
117FG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2925
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFC14201

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFC14201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

F_R_O_Z_E_N___T_M_C

PERIAPSIS:

THINNING:NIM 2

START:JTB 97-093/22:40:38.400 +CDS 3121:00:0

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

OBSERVATION:G7JNPFC14201

DESCRIP:JUP_FEA_TRK_142_DEG_PHASE_01

Jupiter Ftr Trk C 142 Deg Phase	ACTIVITY ID: G7JNPFC14201- START TIME: 97-096/03:11:15.733

Activity ID: Orbit G7 Target J Inst N OAPEL PFC142 SeqNo 01 -

Title	Jupiter Ftr Trk C 142 Deg Phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/06/97	Week 14

Start	JTB+CDS	00003116:00:0	97-096/03:11:15.733	JTB+002/04:30:37.333
End	JTB+CDS	00003123:00:0	97-096/03:18:20.400	JTB+002/04:37:42.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	G7JNPFC14201-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 4 OAPELs constituting the North Temperate Zone partial feature (Feature C). This is the only observation obtained on a rotation with phase angle approximately 146 degrees. Feature C imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near minimum airmass, assuming feature coordinates 20 degrees North latitude and 65 degrees West longitude (System III).
Original Times: Start CDS = 2121:01 End CDS = 2127:01 Duration = 6:00

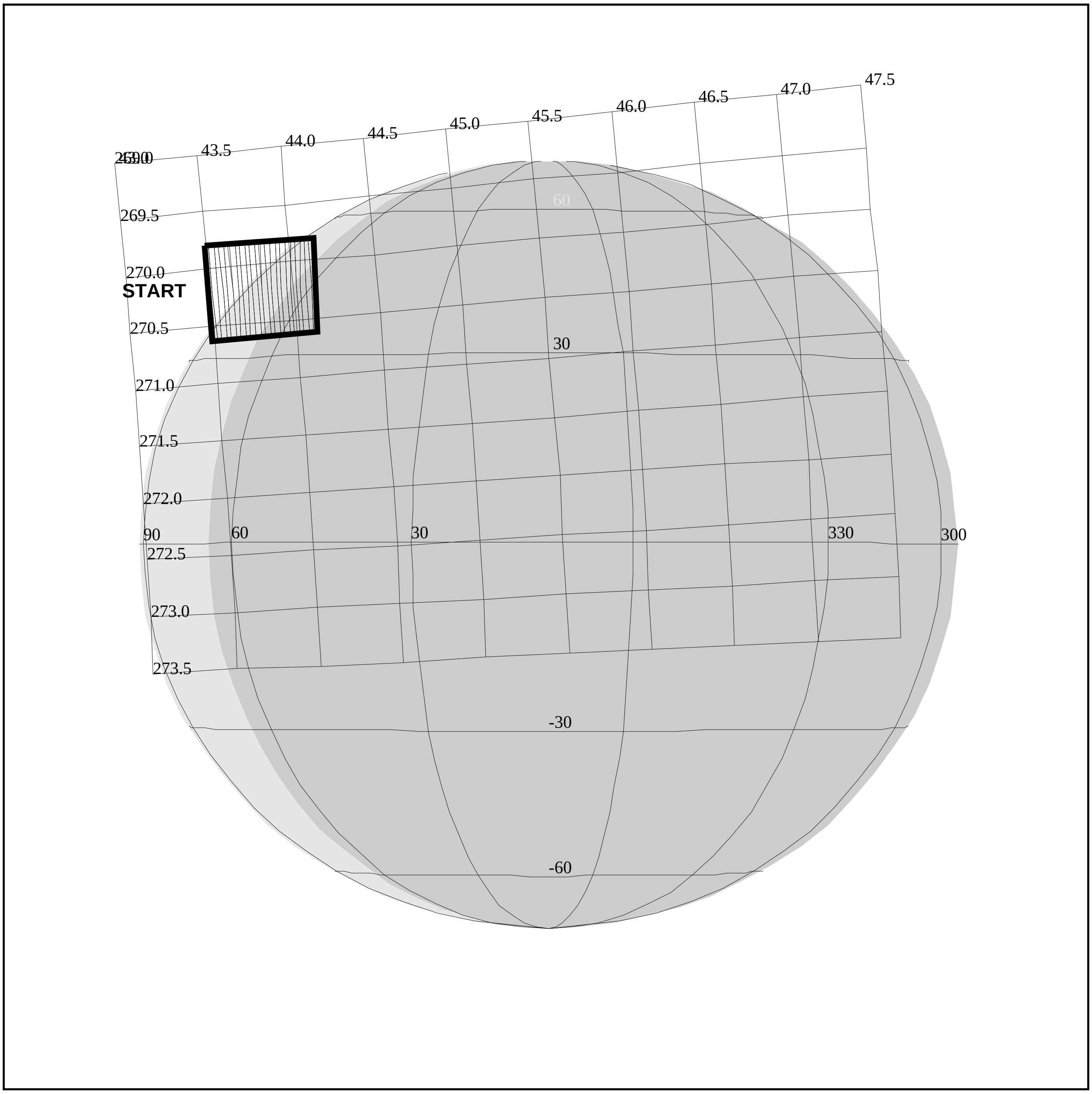
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Temperate Zone feature near 65 degrees West longitude, 20 degrees North latitude. S/C distance about 1.61 million KM, NIMS IFOV (NIMSEL) = 805 KM; 1*1 mosaic covers 16100*16100 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTB.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FH:TT= 0 TMC= 1 C= -9.00 XC= 0.00 BS= 0/6019 TC= 1(43 65)
A= 728 pD= 0 SR=17.450 RA50= 91.82 DEC50= 27.35 cone= 43.51 clock=270.25
117FH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6019
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFB14201

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFB14201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 3138:00:0

OBSERVATION:G7JNPFB14201

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_142_DEG_PHASE_03

Jupiter Ftr Trk B 142 Deg Phase		ACTIVITY ID:	G7JNPFB14201-
		START TIME:	97-096/03:28:27.066

Activity ID: Orbit G7 Target J Inst N OAPEL PFB142 SeqNo 01 -

Title	Jupiter Ftr Trk B 142 Deg Phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/06/97 Week 14

Start	JTB+CDS 00003133:00:0	97-096/03:28:27.066	JTB+002/04:47:48.666
End	JTB+CDS 00003140:00:0	97-096/03:35:31.733	JTB+002/04:54:53.333
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G7JNPFB14201-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 7 OAPELs constituting the partial feature track B of one of two Little Red Spots at 43 degrees North latitude. This is the first and only observation obtained on a rotation with phase angle approximately 146 degrees. Feature B imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with Brown Barge feature near the evening terminator, assuming feature coordinates 42 degrees north latitude and 65 degrees west longitude (System III).

Data Returned

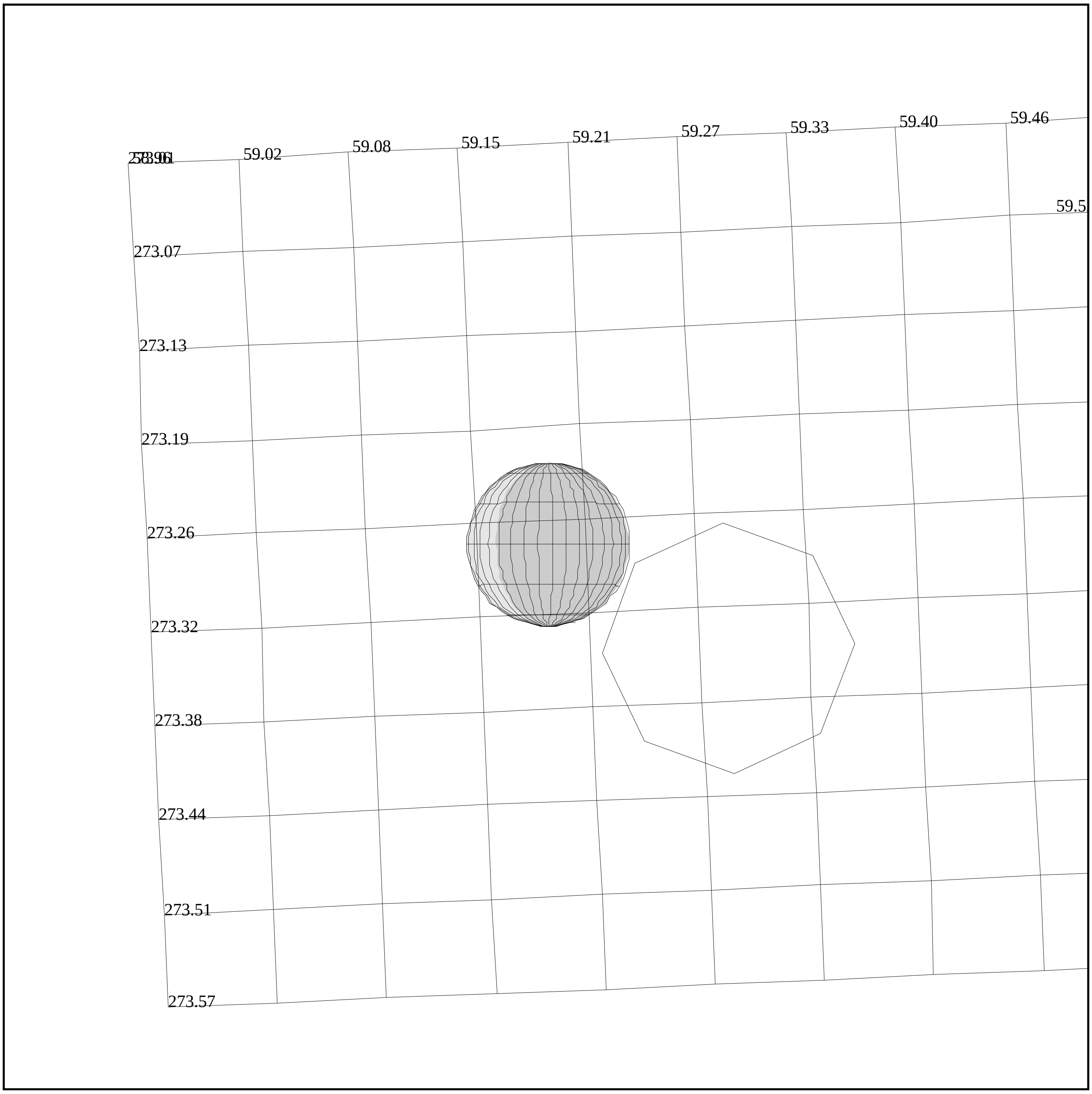
Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on feature near 65 degrees West longitude, 43 degrees North latitude. S/C distance about 1.61 million KM, NIMS IFOV (NIMSEL) = 805 KM; 1*1 mosaic covers 16100*16100 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JTB.

NOTE: 2/25/97: Observation re-targetted a little to observe LRS at 81 degree West longitude (new predicted position of LRS from recent IRTF observation).

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165HZ:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/6837 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 74.44 DEC50= 25.51 cone= 59.05 clock=273.35
117HZ:#SB= 1 OR= 0.320 RR=12.000 BM=F RC= 1 BS= 0/6837
1:#s= 1 Cs= 4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 52 rD= 2

G7NNHEALTH07

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7EPSTP13001

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING: :PPR 1**

START:EEE 97-094/05:58:27.066 +CDS 3204:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.150**

OBSERVATION:G7EPSTP13001 **DESCRIP:EUROPA_PHOTOMETRY_120_DEG**

NIMS Health Observation	ACTIVITY ID: G7NNHEALTH07- START TIME: 97-096/11:56:01.733

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 07 -

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

Time System CDS Load ID Calendar Date 04/06/97 Week 14

Start	JTB+CDS	00003635:00:0	97-096/11:56:01.733	JTB+002/13:15:23.333
End	JTB+CDS	00003640:00:0	97-096/12:01:05.066	JTB+002/13:20:26.666
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G7NNHEALTH07-
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

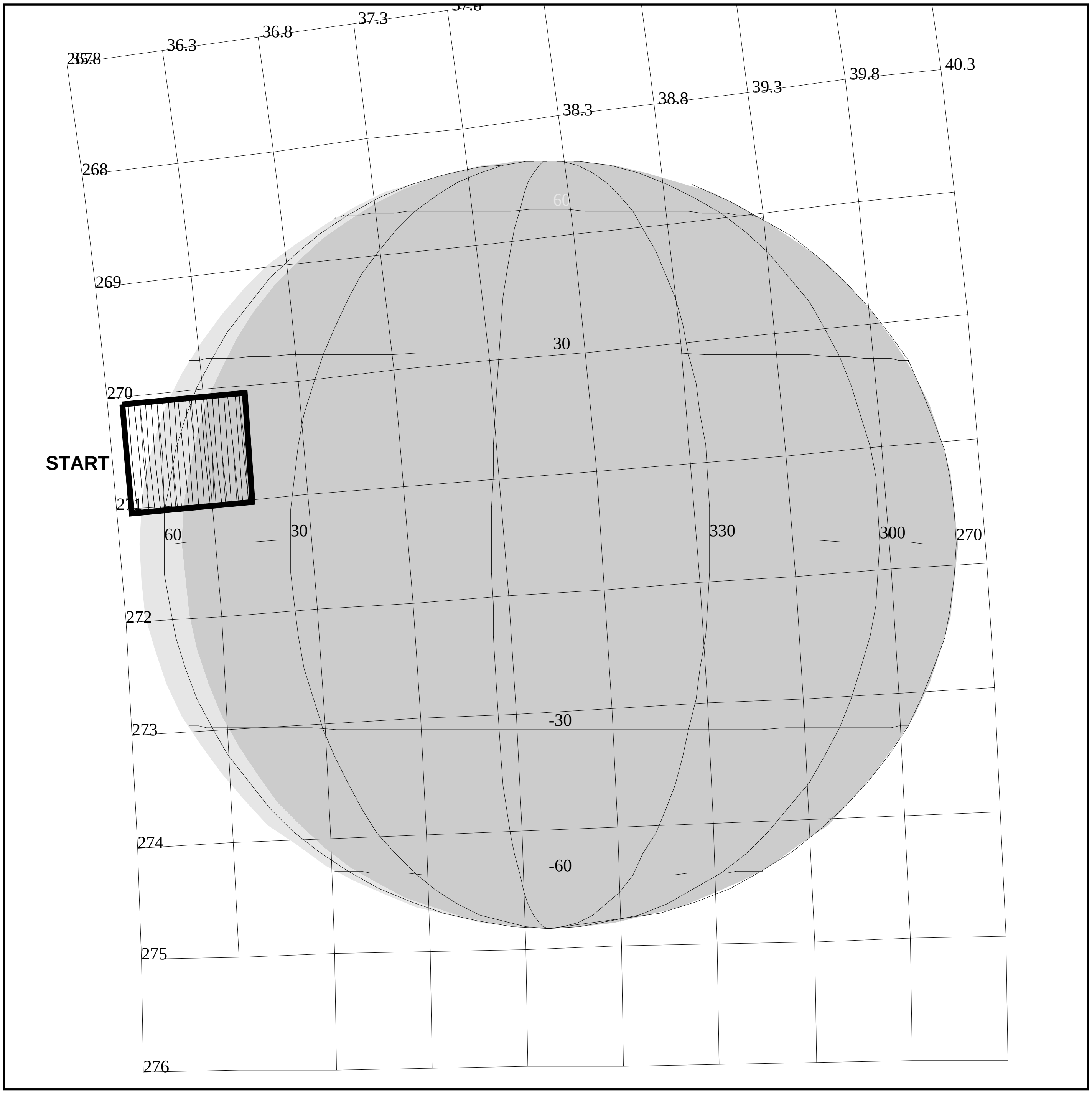
Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced frequently to monitor the health of the NIMS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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FI:TT= 0 TMC= 1 C= -3.20 XC= 0.00 BS= 0/9759 TC= 1(14 65)
A= 728 pD= 0 SR=17.450 RA50=100.22 DEC50= 26.02 cone= 35.89 clock=270.54
117FI:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9759
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFB15001

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFB15001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 3708:00:0

OBSERVATION:G7JNPFB15001

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_150_DEG_PHASE_01

Jupiter Feature Track 150 deg phase pt 1 ACTIVITY ID: G7JNPFB15001-
START TIME: 97-096/13:04:47.066

Activity ID: Orbit G7 Target J Inst N OAPEL PFB150 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	04/06/97 Week 14

Start	JTB+CDS	00003703:00:0	97-096/13:04:47.066	JTB+002/14:24:08.666
End	JTB+CDS	00003710:00:0	97-096/13:11:51.733	JTB+002/14:31:13.333
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G7JNPFB15001-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

(NOTE: See below for update - this text now refers to FEA15003).
One of 7 OAPELs constituting the feature tracks for this Little Red Spot campaign. This is the only observation obtained on a rotation with phase angle approximately 153 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with Little Red Spot feature near minimum airmass, assuming feature coordinates 42 degrees north latitude and 65degrees west longitude (System III).

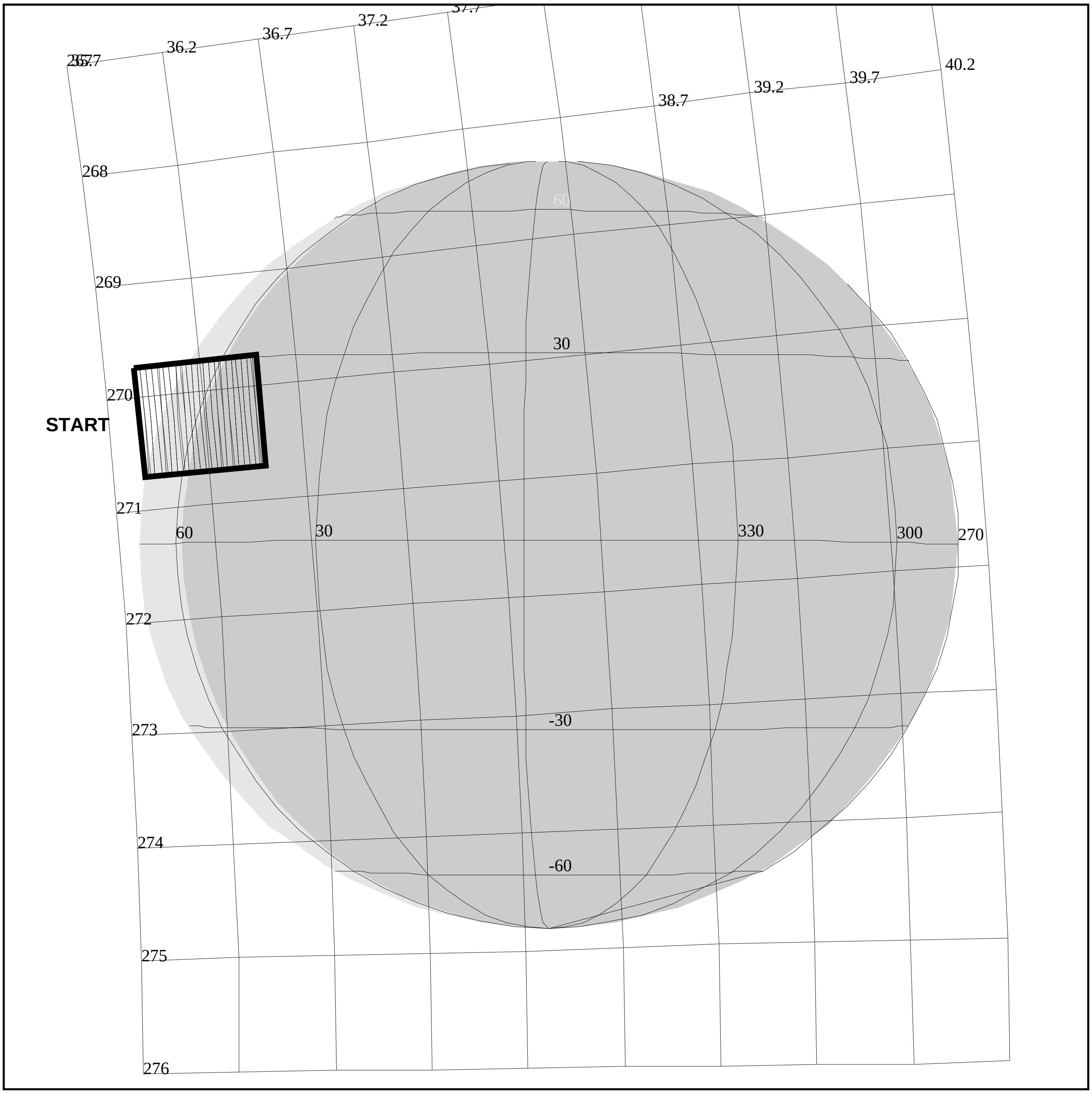
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on the LRS near 65 degrees west longitude, 42 degrees north latitude.
S/C distance about 1.79 million KM, NIMS IFOV (NIMSel) = 930 KM;
1*1 mosaic covers 18600*18600 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 4 colors, and using .00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JTB.
NOTE: Observation swapped with G7JNFEA15003. This one now observes 14 degrees North, 6 degrees West Feature. G7JNFEA15003 now observes LRS at it's new predicted location of 81 degrees West longitude.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FJ:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/1033 TC= 1(20 65)
A= 728 pD= 0 SR=17.450 RA50=100.25 DEC50= 26.21 cone= 35.90 clock=270.22
117FJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1033
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNPFC15001

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNPFC15001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 3715:00:0

OBSERVATION:G7JNPFC15001

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_150_DEG_PHASE_02

Jupiter Ftr Trk C 150 Deg Phase		ACTIVITY ID:	G7JNPFC15001-
		START TIME:	97-096/13:12:39.066

Activity ID: Orbit G7 Target J Inst N OAPEL PFC150 SeqNo 01 -

Title	Jupiter Ftr Trk C 150 Deg Phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/06/97	Week	14

Start	JTB+CDS	00003710:71:0	97-096/13:12:39.066	JTB+002/14:32:00.666
End	JTB+CDS	00003717:00:0	97-096/13:18:56.400	JTB+002/14:38:18.000
Duration		00000006:20:0	000/00:06:17.334	000/00:06:17.334

Top Label	G7JNPFC15001-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 4 OAPELs constituting the North Terperate Zone (feature C) partial feature campaign. This is the only observation obtained on a rotation with phase angle approximately 153 degrees. Feature C imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum air mass, assuming feature coordinates 20 degrees north latitude and 65 degrees west longitude (System III).

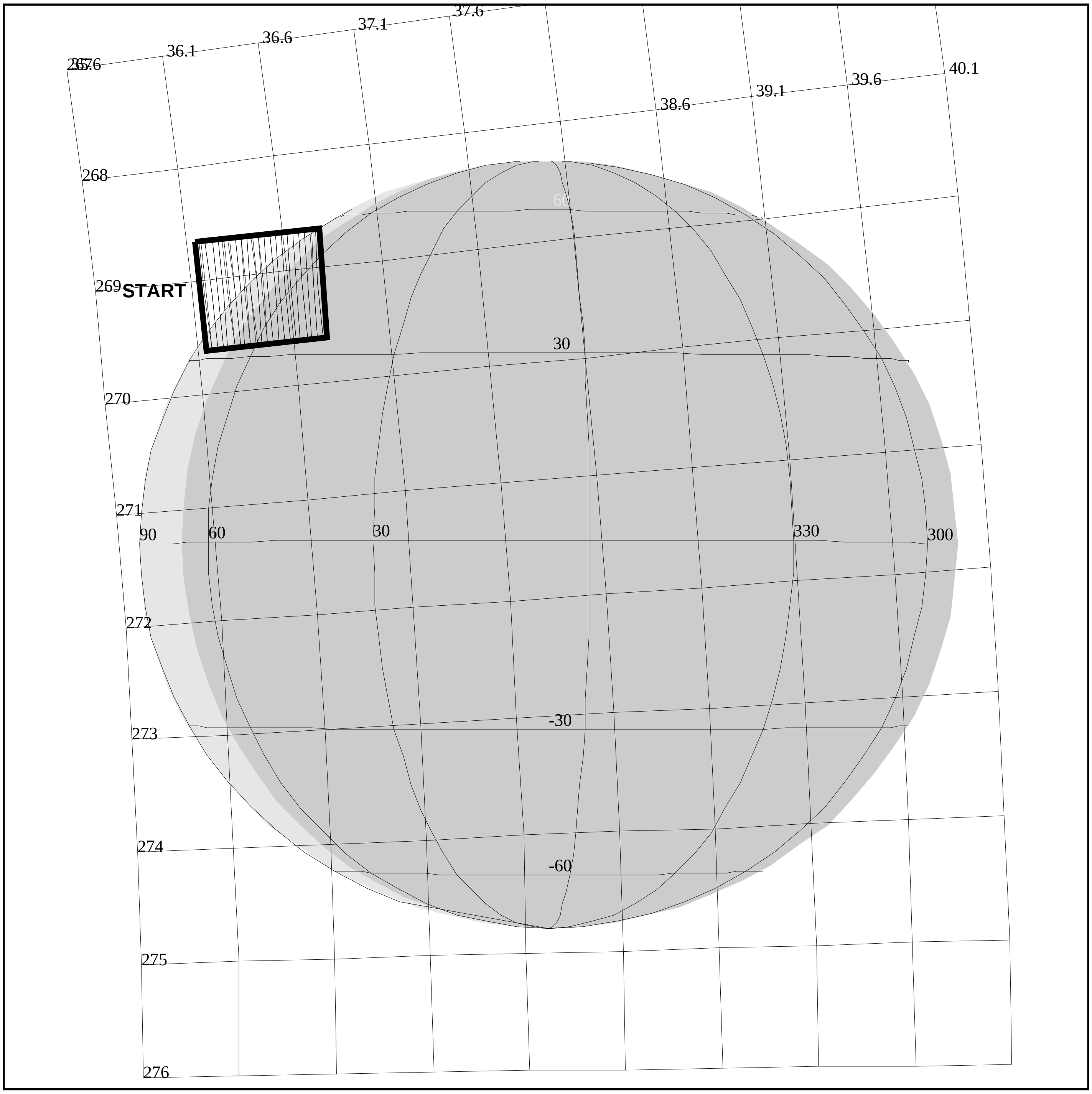
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on North Temperate Zone feature near 65 degrees west longitude, 20 degrees north latitude. S/C distance about 1.89 million KM, NIMS IFOV (NIMSel) = 945 KM; 1*1 mosaic covers 18900*18900 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting.   This observation referenced to EPOCH JTB.
NOTE 2/17/97: Colors reduced to 4 to meet downlink budget.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form   03/17/97 17:37:39   rev 6/95



165FK:TT= 0 TMC= 1 C= -7.00 XC= 0.00 BS= 0/3763 TC= 1(43 65)
A= 728 pD= 0 SR=17.450 RA50=100.15 DEC50= 26.87 cone= 36.12 clock=269.13
117FK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3763
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA15003

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA15003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 3730:00:0

OBSERVATION:G7JNFEA15003

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_150_DEG_PHASE_03

Jupiter Ftr Trk B 150 Deg Phase	ACTIVITY ID: G7JNFEA15003- START TIME: 97-096/13:27:01.733

Activity ID: Orbit G7 Target J Inst N OAPEL FEA150 SeqNo 03 -

Title	Jupiter Ftr Trk B 150 Deg Phase		Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	04/06/97	Week 14

Start	JTB+CDS	00003725:00:0	97-096/13:27:01.733	JTB+002/14:46:23.333
End	JTB+CDS	00003732:00:0	97-096/13:34:06.400	JTB+002/14:53:28.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label   G7JNFEA15003-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 8 OAPELs constituting the partial feature track B of one of the North Tropical Zone at 14 degrees North latitude. This is the only observation obtained on a rotation with phase angle approximately 153 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum airmass, assuming feature coordinates 43 degrees north latitude and 65 degrees west longitude (System III).

Data Returned

Design Detail

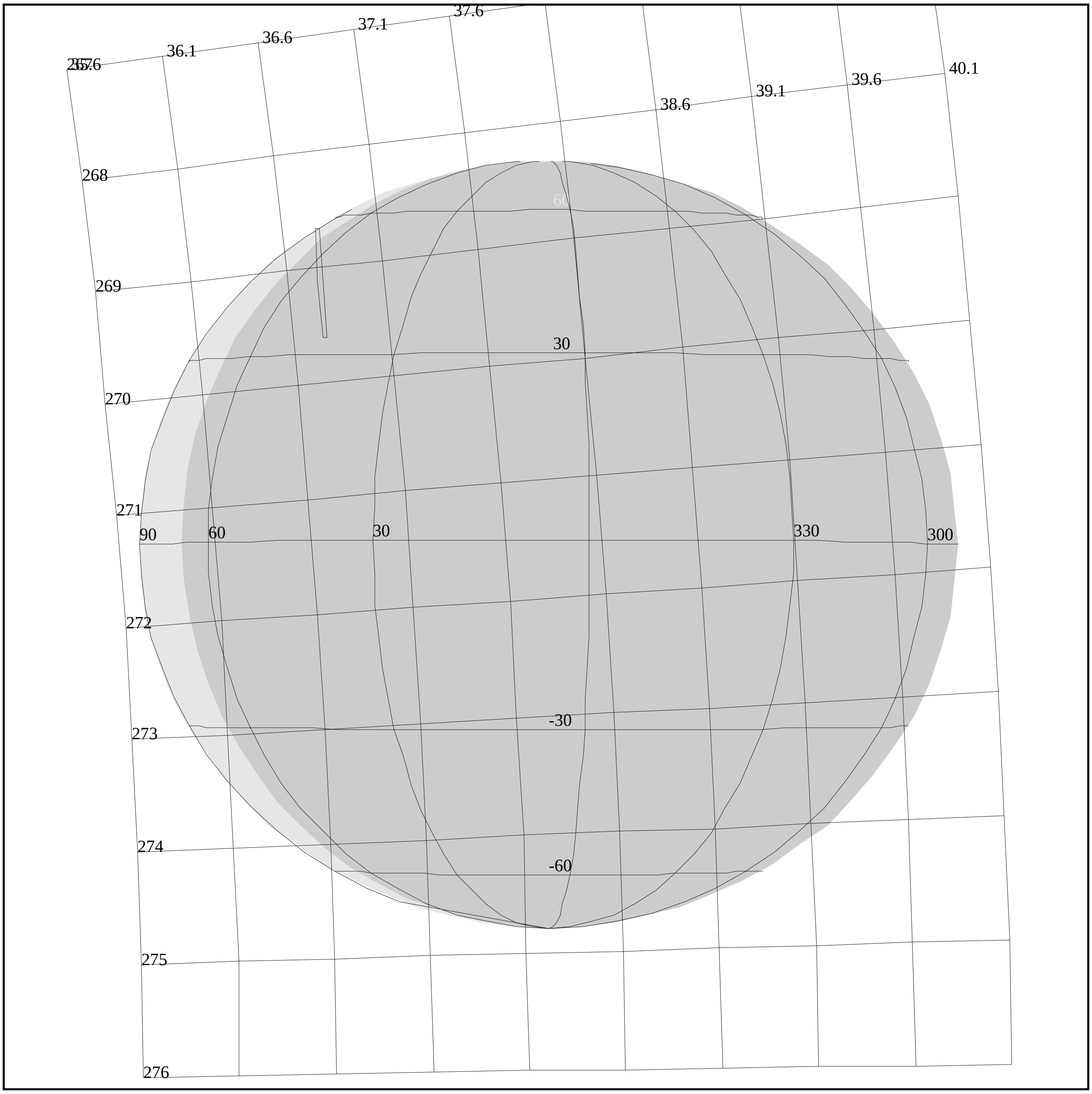
Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on feature near 65 degrees West longitude, 14 degrees North latitude. S/C distance about 1.89 million KM, NIMS IFOV (NIMSEL) = 945 KM; 1*1 mosaic covers 18900*18900 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JTB.

NOTE 2/17/97: Colors cut to 4 to meet downlink budget.

NOTE 2/25/97: Observation swapped with G7JNPFB15001. This one now observes the Little Red Spot at 43 degrees North latitude, 81 degrees West longitude (as recently predicted by the IRTF). OAPEL G7JNPFB15001 observes the North Tropical Zone feature at 14 degrees North, 65 degrees West.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04B

Galileo Activity Plan Form   03/17/97 17:37:39   rev 6/95



165FK:TT= 0 TMC= 1 C= -7.00 XC= 0.00 BS= 0/3763 TC= 1(43 65)
A= 728 pD= 0 SR=17.450 RA50=100.15 DEC50= 26.87 cone= 36.12 clock=269.13
117FK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3763
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7NNHEALTH08

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA15003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

PERIAPSIS:

START:JTB 97-093/22:40:38.400 +CDS 3730:00:0

OBSERVATION:G7JNFEA15003

F_R_O_Z_E_N___T_M_C

THINNING:NIM 2

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

DESCRIP:JUP_FEA_TRK_150_DEG_PHASE_03

NIMS Health Observation		ACTIVITY ID:	G7NNHEALTH08-
		START TIME:	97-096/15:14:12.400

Activity ID: Orbit G7 Target N Inst N OAPEL HEALTH SeqNo 08 -

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

Time System CDS Load ID Calendar Date 04/06/97 Week 14

Start	JEE+CDS	00003096:00:0	97-096/15:14:12.400	JEE+002/04:10:24.000
End	JEE+CDS	00003101:00:0	97-096/15:19:15.733	JEE+002/04:15:27.333
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G7NNHEALTH08-
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

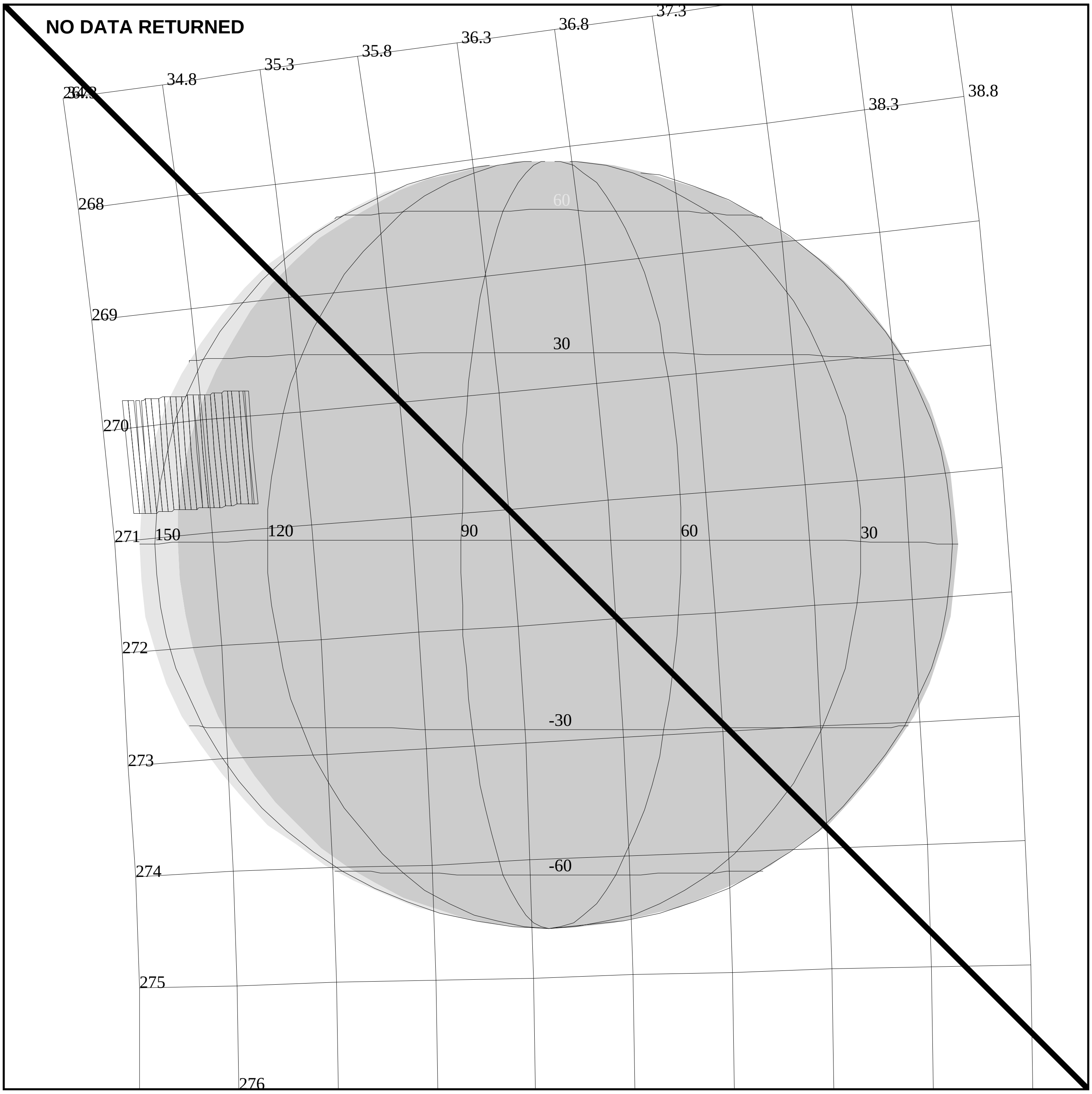
Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced frequently to monitor the health of the NIMS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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, R/T, G7RCVY3

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FL:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/5785 TC= 1(14 160)
A= 728 pD= 0 SR=17.450 RA50=101.88 DEC50= 25.90 cone= 34.41 clock=270.26
117FL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5785
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEZ15701

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEZ15701

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-094/11:03:48.400 +CDS 3116:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEZ15701 **DESCRIP:JUP_FEA_TRK_157_DEG_PHASE_01**

Jupiter Ftr Trk Z 157 Deg Phase pt 1	ACTIVITY ID:	G7JNFEZ15701-
	START TIME:	97-096/15:29:22.400

Activity ID: Orbit G7 Target J Inst N OAPEL FEZ157 SeqNo 01 -

Title	Jupiter Ftr Trk Z 157 Deg Phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	04/06/97	Week	14

Start	JEE+CDS	00003111:00:0	97-096/15:29:22.400	JEE+002/04:25:34.000
End	JEE+CDS	00003118:00:0	97-096/15:36:27.066	JEE+002/04:32:38.666
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G7JNFEZ15701-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 3 OAPELs constituting the limited feature track for Feature Z at 14 degrees North latitude. This is the first observations obtained on a rotation with phase angle approximately 157 degrees. Feature Z imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near the bright limb, assuming feature coordinates 14 degrees north latitude and 160 degrees west longitude (System III).

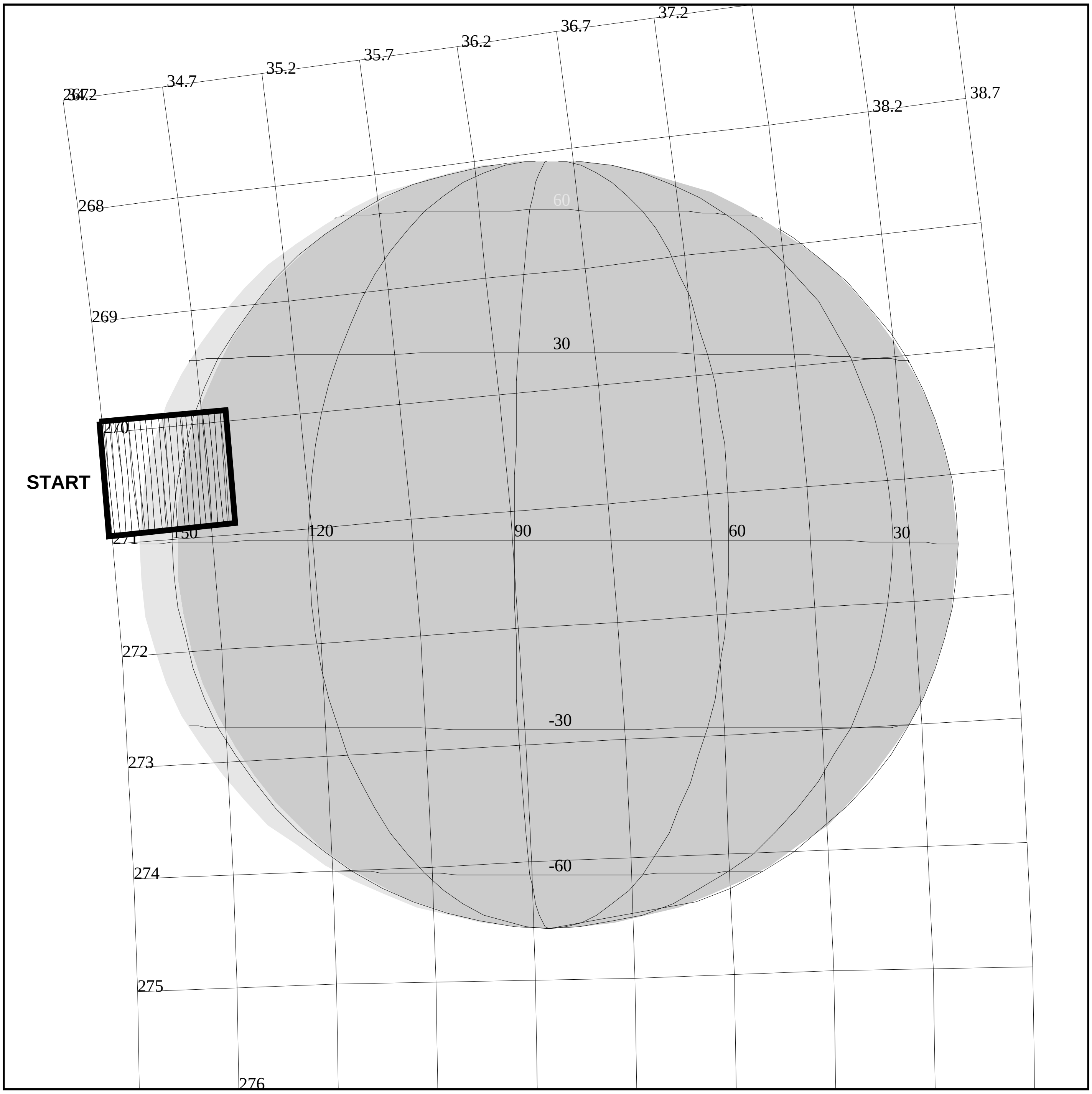
No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on 160 deg. west longitude, 14 degrees North latitude (observation is restricted to this longitude due to other S/C constraints, see below). S/C distance about 2.06 million KM, NIMS IFOV (NIMSEL) = 1030 KM; 1*1 mosaic covers 20600*20600 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting. This observation referenced to EPOCH JEE. This observation has been moved from its original time of JTB+cds4294 to 4300 because we can not extend the G7A end load boundary to cover the original time. The longitude is now fixed at 160 degrees west. The phase is now 153 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FM:TT= 0 TMC= 1 C= -5.40 XC= 0.00 BS= 0/7969 TC= 1(14 160)
A= 728 pD= 0 SR=17.450 RA50=102.21 DEC50= 25.87 cone= 34.15 clock=270.41
117FM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7969
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEZ15702

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEZ15702

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS

F_R_O_Z_E_N___T_M_C

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-094/11:03:48.400 +CDS 3128:00:0

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

OBSERVATION:G7JNFEZ15702

DESCRIP:JUP_FEA_TRK_157_DEG_PHASE_02

Jupiter Ftr Trk Z 157 Deg Phase pt 2	ACTIVITY ID: G7JNFEZ15702- START TIME: 97-096/15:41:30.400

Activity ID: Orbit G7 Target J Inst N OAPEL FEZ157 SeqNo 02 -

Title	Jupiter Ftr Trk Z 157 Deg Phase pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/06/97 Week 14

Start	JEE+CDS	00003123:00:0	97-096/15:41:30.400	JEE+002/04:37:42.000
End	JEE+CDS	00003130:00:0	97-096/15:48:35.066	JEE+002/04:44:46.666
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G7JNFEZ15702-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 3 OAPELs constituting the feature track for Feature Z at 14 degrees North latitude. This is the second observation obtained on a rotation with phase angle approximately 157 degrees. Feature Z imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with feature near minimum airmass, assuming feature coordinates 14 degrees north latitude and 160 degrees west longitude (System III).

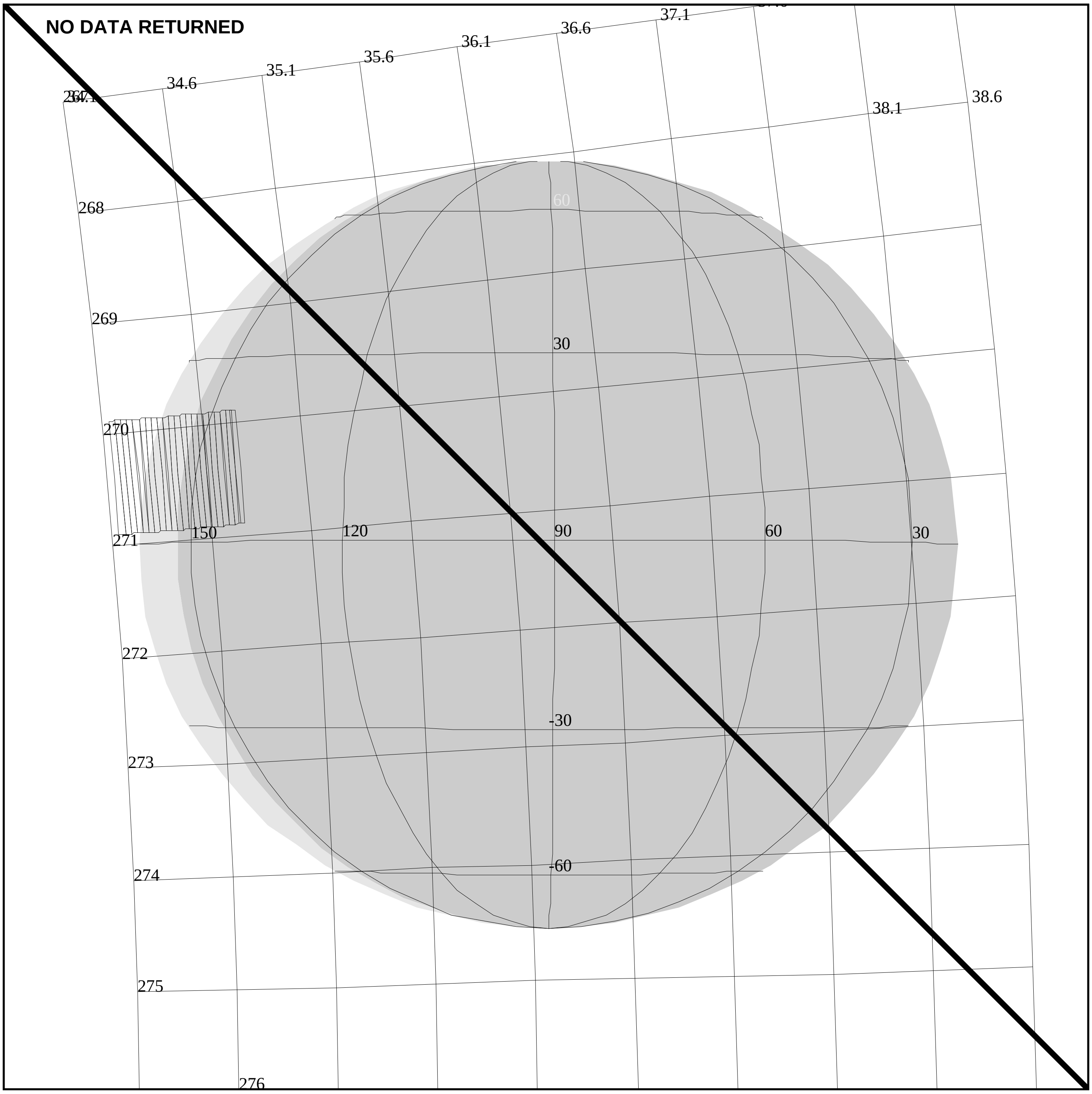
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on 160 degrees West longitude, 14 degrees North latitude (Obseervation is restricted to this longitude due to S/C constraints, see below).
S/C distance about 2.05 million KM, NIMS IFOV (NIMSEL) = 1025 KM;
1*1 mosaic covers 20500*20500 KM. About 100 seconds of scanning, accumulating 0.02554 mbtg in 25 colors, and using 0.00336 tracks.
Four rims reserved for targetting. This observation referenced to EPOCH JEE. This observation has been moved from its original time of JTB+CDS 4306 to 4312 because we can not extend the G7A end load boundary to cover the original time. The longitude isnow fixed at 160 degrees west.
The phase is around 153 degrees.
NOTE 2/17/97: Number of colors cut to meet downlink budget.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT19C

Galileo Activity Plan Form 03/17/97 17:37:39 rev 6/95



165FN:TT= 0 TMC= 1 C= -5.40 XC= 0.00 BS= 0/9607 TC= 1(14 160)
A= 728 pD= 0 SR=17.450 RA50=102.25 DEC50= 25.87 cone= 34.12 clock=270.39
117FN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9607
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G7JNFEA15703

TARGET G3.1 lisac: 5/ 6/1997 15: 3:44

FILE:P.G7JNFEA15703

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970408-tour.NS **F_R_O_Z_E_N___T_M_C**

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-094/11:03:48.400 +CDS 3137:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:G7JNFEA15703 **DESCRIP:JUP_FEA_TRK_157_DEG_PHASE_03**

Jupiter Ftr Trk Z 157 Deg Phase pt 3	ACTIVITY ID: G7JNFEZ15703- START TIME: 97-096/15:50:36.400

Activity ID: Orbit G7 Target J Inst N OAPEL FEZ157 SeqNo 03 -

Title	Jupiter Ftr Trk Z 157 Deg Phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 04/06/97 Week 14

Start	JEE+CDS	00003132:00:0	97-096/15:50:36.400	JEE+002/04:46:48.000
End	JEE+CDS	00003139:00:0	97-096/15:57:41.066	JEE+002/04:53:52.666
Duration		00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G7JNFEZ15703-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	98	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 3 OAPELs constituting the feature tracks for Feature Z at 14 degrees West latitude. This is the third and last observation obtained on a rotation with phase angle approximately 157 degrees. Feature Z imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with feature near the evening terminator, assuming feature coordinates 14 degrees north latitude and 160 degrees west longitude (System III).

No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered on 160 degrees West longitude, 14 degrees North latitud (observation is restricted to this longitude due to S/C constraints, see below). S/C distance about 2.05 million KM, NIMS IFOV (NIMSEL) = 1025 KM; 1*1 mosaic covers 20500*20500 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks. Four rim reserved for targetting. This observation referenced to EPOCH JEE. This observation has been moved from its original time of JTB+CDS 4315 to 4321 because we can not move the G7A end load boundary to cover the original time. The longitude is now fixed at 160 degrees west and the phase is about 153 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G7JFT68C, G7JFT04

Galileo Activity Plan Form 03/17/97 17:37:40 rev 6/95

NIMS Chopper OFF

ACTIVITY ID: G7NNCHOPOF01-
START TIME: 97-096/16:08:48.400

Activity ID: Orbit G7 Target N Inst N OAPEL CHOPOF SeqNo 01 -

Title	NIMS Chopper OFF			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	04/06/97	Week	14

Start	JEE+CDS	00003150:00:0	97-096/16:08:48.400	JEE+002/05:05:00.000
End	JEE+CDS	00003160:00:0	97-096/16:18:55.066	JEE+002/05:15:06.666
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label G7NNCHOPOF01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	92	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To turn NIMS chopper off and put NIMS in SAFE mode after the last observation in G7A load.

Design Detail

Use two 37IST commands to turn the NIMS instrument’s chopper off
37IST,1,0,0,OFF,0,0,0 Chopper 63 Hz
37IST,1,1,0,OFF,0,0,0 Chopper Off
NIMSTAB to reset wavelenth and 37IOP,0,0 (SAFE MODE)

Galileo Activity Plan Form 03/17/97 17:37:40 rev 6/95

POWER MODE CAL/DEC NIMS REC CAL ACTIVITY ID: G7NNRCTRLT01-
START TIME: 97-098/17:16:11.466

Activity ID: Orbit G7 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	POWER MODE CAL/DEC NIMS REC CAL			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 04/08/97 Week 15

Start	RTA-CDS	00000000:00:0	97-098/17:16:11.466	RTA-000/00:00:00.000
End	RTA+CDS	00000787:00:0	97-099/06:31:56.132	RTA+000/13:15:44.666
Duration		00000787:00:0	000/13:15:44.666	000/13:15:44.666

Top Label G7NNRCTRLT01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	447	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, G7RCT252

Galileo Activity Plan Form 03/17/97 17:37:40 rev 6/95 f

NIMS PCT Real Time Calibration — ACTIVITY ID: G7NNPCTRLT01- — START TIME: 97-103/20:49:39.200

Activity ID: Orbit G7 Target N Inst N OAPEL PCTRLT SeqNo 01 -

Title	NIMS PCT Real Time Calibration			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 04/13/97 Week 15

Start	PCT+CDS	00000000:00:0	97-103/20:49:39.200	PCT+000/00:00:00.000
End	PCT+CDS	00000434:00:0	97-104/04:08:28.533	PCT+000/07:18:49.333
Duration		00000434:00:0	000/07:18:49.333	000/07:18:49.333

Top Label G7NNPCTRLT01-
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 a NIMS photometric calibration using the PCT target.
The data will be used to calibrate the NIMS visible detectors.
The calibration data will be in Real-Time. This calibration will take place near the end of the G7 Encounter phase.
At this time the off sun angle is about 8.5 degrees.

Data Returned

Design Detail

The Dark cone, clock angles must be slected using Pointer.
1) Turn off PCT heaters 6 hours before calbiration.
2) Set NIMS to Long Map Mode, Gain State 4, ETB = PCT252,
3) Slew to Dark (cone = 110.00, clock = 90.00), Real-Time, 1 Rim
4) Slew to PCT (cone = 54.88, clock = 244.07), Real-Time, 10 Rims
5) Slew to Safe (cone = 153.00, clock = 0.00).

Long Map (LM), Gain 4, Grating Start 0, R/T, G7PCT252.

Galileo Activity Plan Form 03/17/97 17:37:40 rev 6/95

NIMS OPCAL		ACTIVITY ID:	G7NNOPCAL_01-
		START TIME:	97-121/00:54:21.733

Activity ID: Orbit G7 Target N Inst N OAPEL OPCAL_ SeqNo 01 -

Title	NIMS OPCAL			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 05/01/97 Week 18

Start	JEE+CDS	00037850:00:0	97-121/00:54:21.733	JEE+026/13:50:33.333
End	JEE+CDS	00037872:00:0	97-121/01:16:36.400	JEE+026/14:12:48.000
Duration		00000022:00:0	000/00:22:14.667	000/00:22:14.667

Top Label G7NNOPCAL_01-
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

Data Returned

Design Detail

Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL120

Galileo Activity Plan Form 03/17/97 17:37:40 rev 6/95