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.
"Garbled Data"       == Data from this observation "GARBLED"
"UnGarbled Data"     == Data from this observation "UNGARBLED"
                        (This is a special case for the G1 orbit)
```

More information regarding NIMS data return, and especially the G1 data 'garbling' problem, can be found in Chapter 7 of this guide.

NIMS chopper turn on	ACTIVITY ID: G1NNCHOPON01- START TIME: 96-176/03:10:00.000

Activity ID: Orbit G1 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS chopper turn on			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 31224	Team	NIMS	Working Group	SWG

Time System	UTC	Load ID	G1A	Calendar Date	06/24/96	Week	26

Start	GEE-CDS 00004469:71:0	96-176/03:10:00.000	GEE-003/03:19:26.933
End	GEE-CDS 00004459:81:0	96-176/03:20:00.000	GEE-003/03:09:26.933
Duration	9:81:0	000/00:10:00.000	000/00:10:00.000

Top Label G1NNCHOPON01-
Bottom Label NIMS initialization

Plot Key	NIMS	Type	SCI		
CDS Bytes	52	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

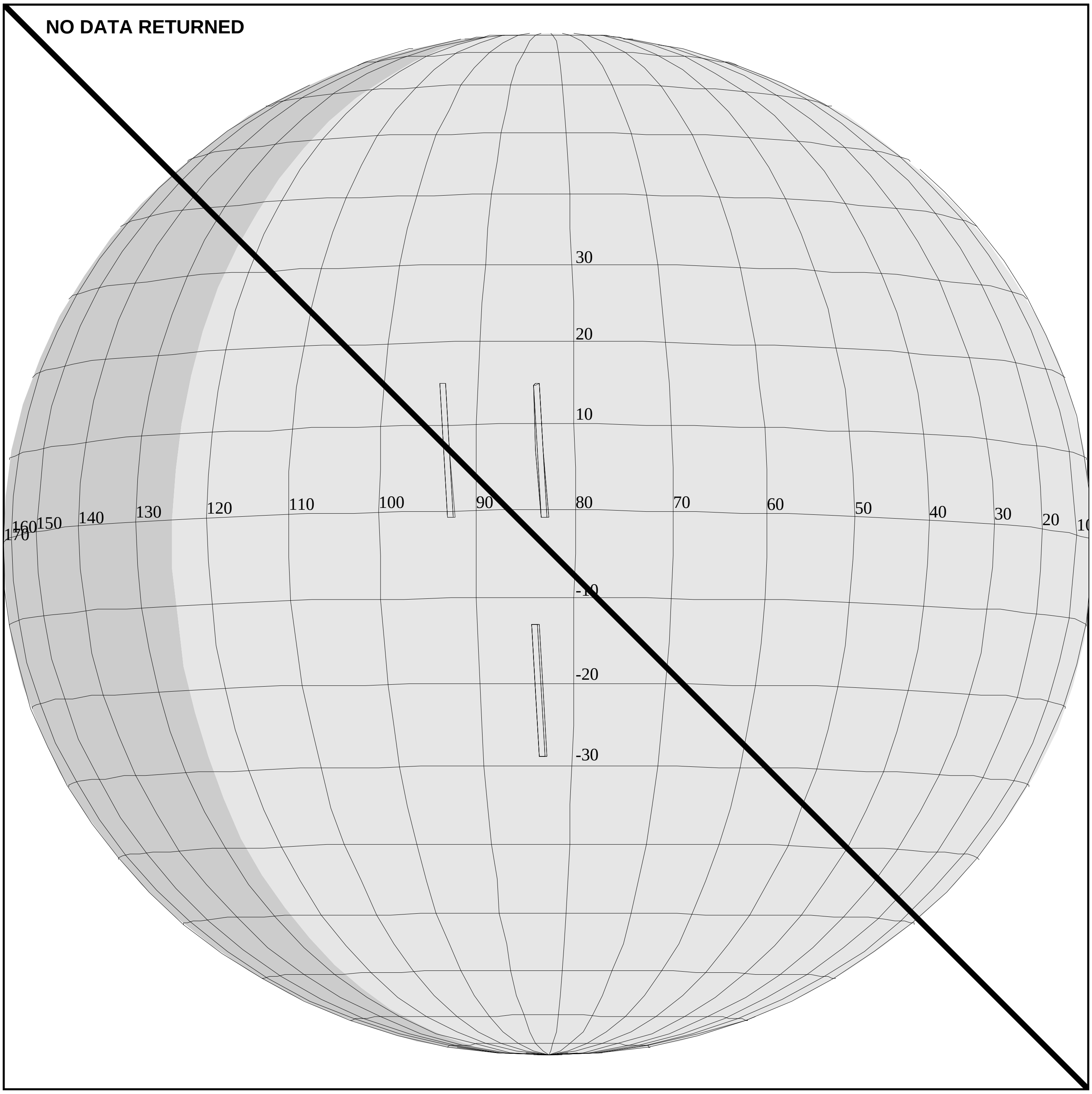
Observation Objective

To turn the NIMS instrument chopper on and change its mode to REFERENCE.

Design Detail

Use two NIMS 37IST commands (one rim apart) the first turn chopper on and the second to reference:
37IST,1,0,0,OFF,0,0,0
37IST,1,2,0,OFF,0,0,0
Also, issue a 37MB command to enable all mirror positions:
37MB,0,0,0,0,0,0 (00000,00000)

Galileo Activity Plan Form   05/09/96 18:13:51   rev 6/95



165DA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1109 TC= 1(7 93)
A= 728 pD= 0 SR=17.450 RA50=231.87 DEC50=-17.13 cone=132.10 clock= 93.43
118DA:#SB= 3 Cs= 0.00 XCs= 0.00 TPP= 108 SR= 0.010 RR=10.000 BM=F RC= 1 BS= 0/1109
1:#s= 1 #p= 1 Cr= -6.90 XCr= 0.00
2:#s= 1 #p= 1 Cr= -7.10 XCr= -0.50
3:#s= 1 #p= 1 Cr= 1.25 XCr= -18.00

G1JNJJBARS01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNJJBARS01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 -CDS 2460:00:0

OBSERVATION:G1JNJJBARS01

THINNING:NIM 1

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

DESCRIP:Longmap jailbar sampling JJBARS

JJBARS		ACTIVITY ID:	G1JNJJBARS01-
		START TIME:	96-178/06:59:57.600

Activity ID: Orbit G1 Target J Inst N OAPEL JJBARS SeqNo 01 -

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

Time System CDS Load ID G1A Calendar Date 06/26/96 Week 26

Start	JEE-CDS 2464:00:0	96-178/06:59:57.600	JEE-001/17:31:22.666
End	JEE-CDS 2458:00:0	96-178/07:06:01.600	JEE-001/17:25:18.666
Duration	6:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G1JNJJBARS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	201	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Jail-bar full spectral sampling of 3 locations on Jupiter. Observation uses wavelength table JFE408A (i.e., all 408 wavelengths; table also used in C9JNGRSFUL01).

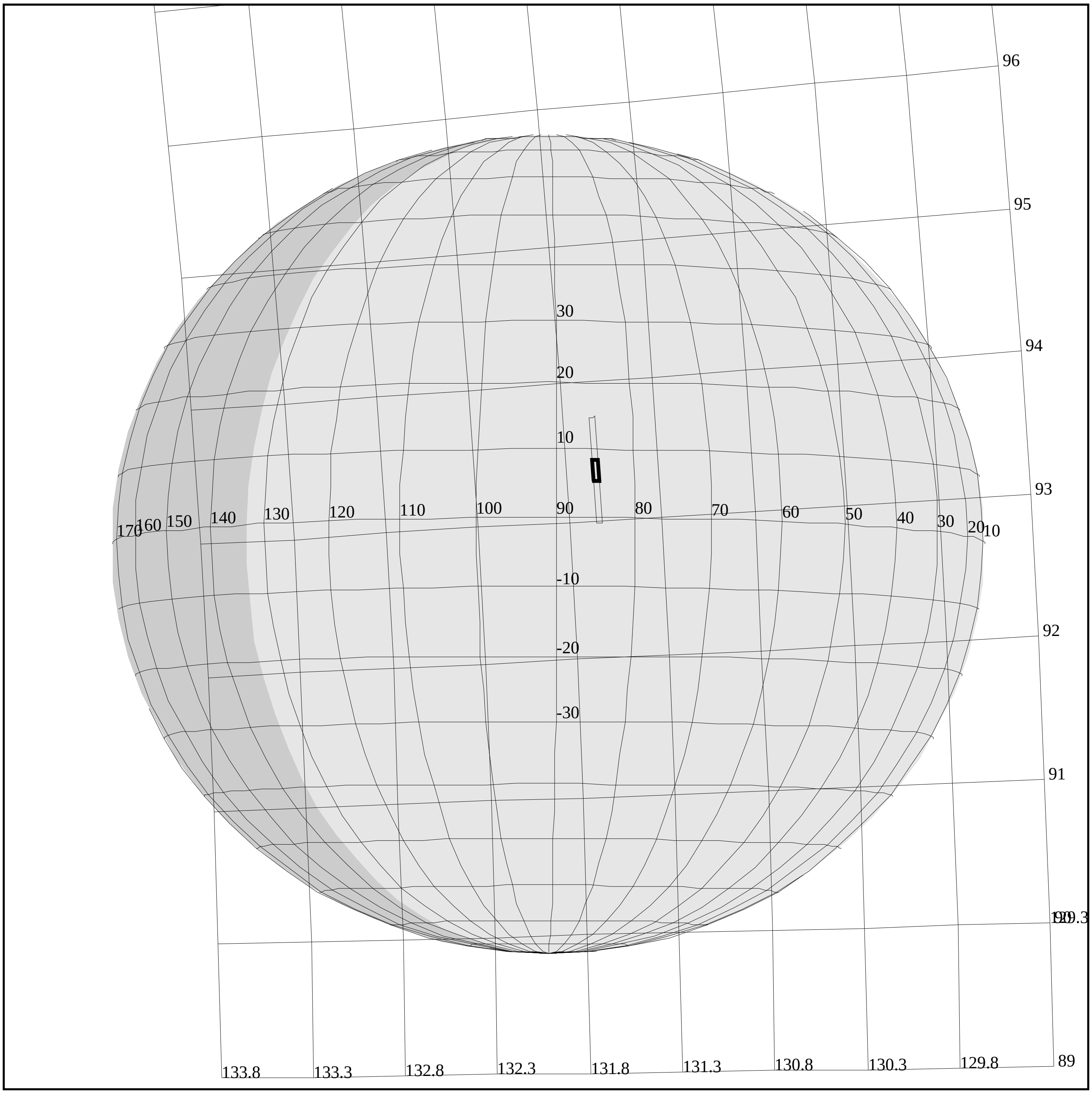
No Data Returned

Design Detail

Longmap jailbar sampling of 3 regions on Jupiter. Two regions sampled along the central meridian, at 6 degrees north latitude (PES latitude) and 23 degrees south latitude (i.e., GRS). One extra region placed 10 degrees West of central meridian centered at 6 degrees north latitude. At each jailbar, 3 spectra are recorded (26 secs for all 3 spectra). Each reposition slew to next jailbar position takes 8 seconds. Total record time for all 3 positions: 94 seconds. At 28.8 Kbps, 0.012 tracks used, accumulating 0.45 MBTG in 408 colors. Spacecraft range about 1.8 million Km. NIMS IFOV 900 KM. Phase angle about 45 degrees. 4 rims reserved for targetting. G1 tape model requires an 8 minute tape slew after CSMOS ends.

Jailbar 1: 93 lon, 0 to 14 lat
Jailbar 2: 83 lon, 0 to 14 lat
Jailbar 3: 84 lon, -28 to -14 lat
Cone: 132 degrees.
Long Map (LM), Gain 2, Grating Start 0, MPW, G1JFE408A, G1JFE408A

Galileo Activity Plan Form 05/09/96 18:13:51 rev 6/95



165DL:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3657 TC= 1(7 85)
A= 728 pD= 0 SR=17.450 RA50=231.40 DEC50=-17.03 cone=131.64 clock= 93.37
118DL:#SB= 1 Cs= 0.00 XCs= 0.00 TPP= 546 SR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/3657
1:#s= 1 #p= 1 Cr= 0.00 XCr= 0.00

G1JNRTJBAR01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNRTJBAR01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 -CDS 2446:00:0

OBSERVATION:G1JNRTJBAR01

THINNING:NIM 2

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

DESCRIP:Real Time Jupiter Jailbars #1

Real Time Jupiter Jailbars #1	ACTIVITY ID:	G1JNRTJBAR01-
	START TIME:	96-178/07:14:06.933

Activity ID: Orbit G1 Target J Inst N OAPEL RTJBAR SeqNo 01 -

Title	Real Time Jupiter Jailbars #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	G1A	Calendar Date	06/26/96	Week	26

Start	JEE-CDS 2450:00:0	96-178/07:14:06.933	JEE-001/17:17:13.333
End	JEE-CDS 2443:00:0	96-178/07:21:11.600	JEE-001/17:10:08.666
Duration	7:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	G1JNRTJBAR01-
Bottom Label	

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

Observation Objective

Hotspot latitude real time jailbar sampling.
Four longmap, full 408-wavelengths spectra acquired at lat 7, lon 85.
Mirror blocking is used to return 4 mirror positions only.

Data Returned

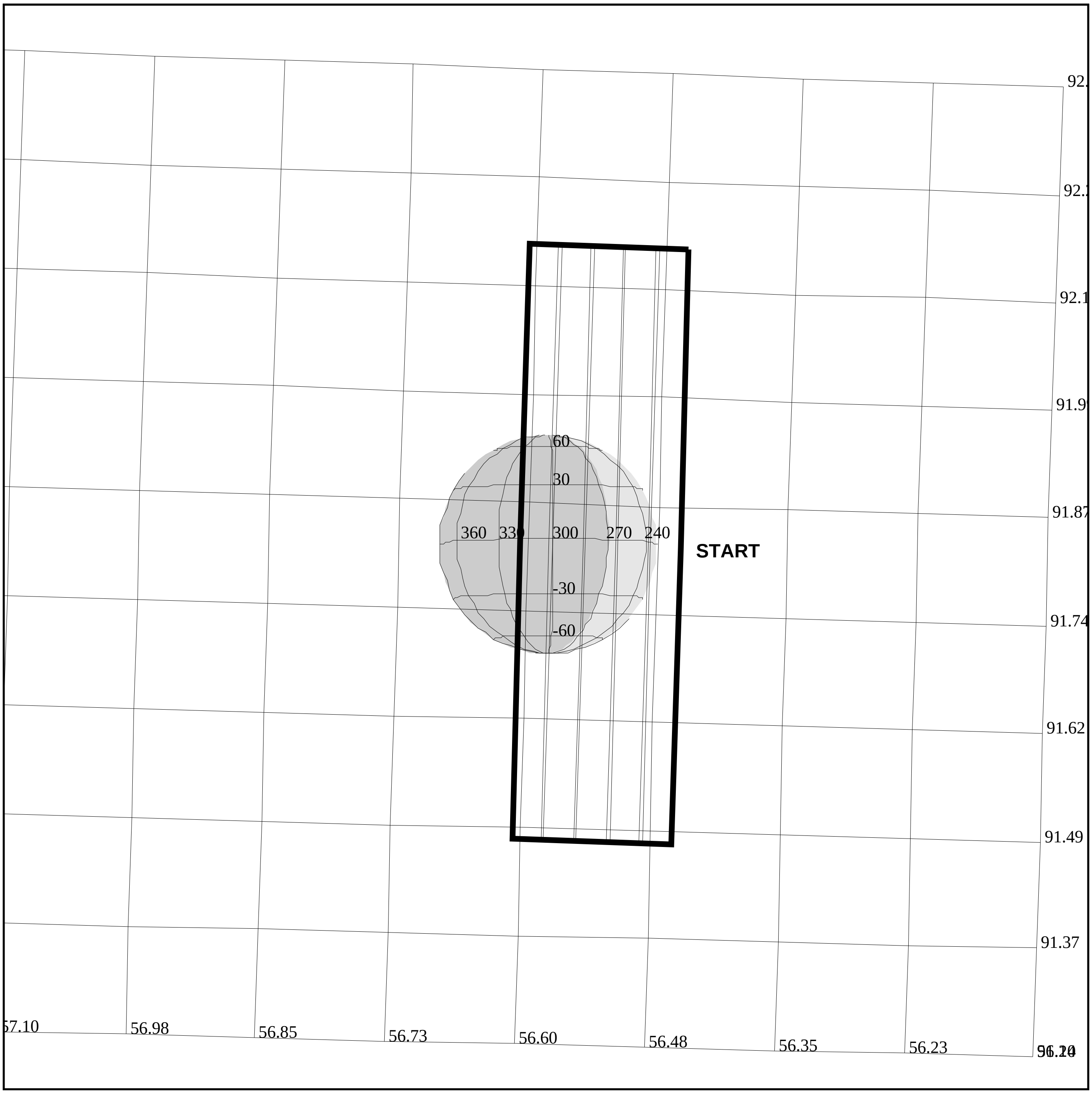
Design Detail

One 4-nimsel longmap observation at the 6 degree north hotspot latitude (centered on the central meridian). Four spectra are acquired at this location. Each spectrum takes just 8.666 seconds to acquire, with data put in buffer. Spacecraft distance approximately 1.7 million KM, yielding 850 Km/nimsel. 4 Rims reserved for targetting. 4 mirror positions.
  Jailbar 1: 85 lon, 7 lat

Cone: 132 degrees.

Long Map (LM), Gain 2, Grating Start 0, R/T, G1JFE408A

Galileo Activity Plan Form   05/09/96 18:13:52   rev 6/95



165FA:TT= 0 TMC= 1 C= -2.10 XC= 0.00 BS= 0/1533 TC= 3
A= 364 pD= 0 SR=17.450 RA50=160.99 DEC50= 11.52 cone= 56.46 clock= 91.82
117FA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1533
1:#s= 1 Cs= 2.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 246 rD= 2

G1CNGLOBAL01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:CEE 96-179/13:12:52.933 -CDS 1457:00:0

OBSERVATION:G1CNGLOBAL01

THINNING:NIM 2

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

DESCRIP:Callisto Global Observation

Callisto Global Composition Map	ACTIVITY ID: G1CNGLOBAL01- START TIME: 96-178/12:37:40.267

Activity ID: Orbit G1 Target C Inst N OAPEL GLOBAL SeqNo 01 -

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

Time System CDS Load ID G1A Calendar Date 06/26/96 Week 26

Start	CEE-CDS 1459:00:0	96-178/12:37:40.267	CEE-001/00:35:12.666
End	CEE-CDS 1453:00:0	96-178/12:43:44.267	CEE-001/00:29:08.666
Duration	6:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G1CNGLOBAL01-
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

To obtain a global composition map of Callisto at the highest spectral resolution possible. To investigate surface mineralogy and composition. This will be NIMS first look at Callisto and the data will be used to aid in the selection of wavelength playback in subsequent orbits.

Data Returned

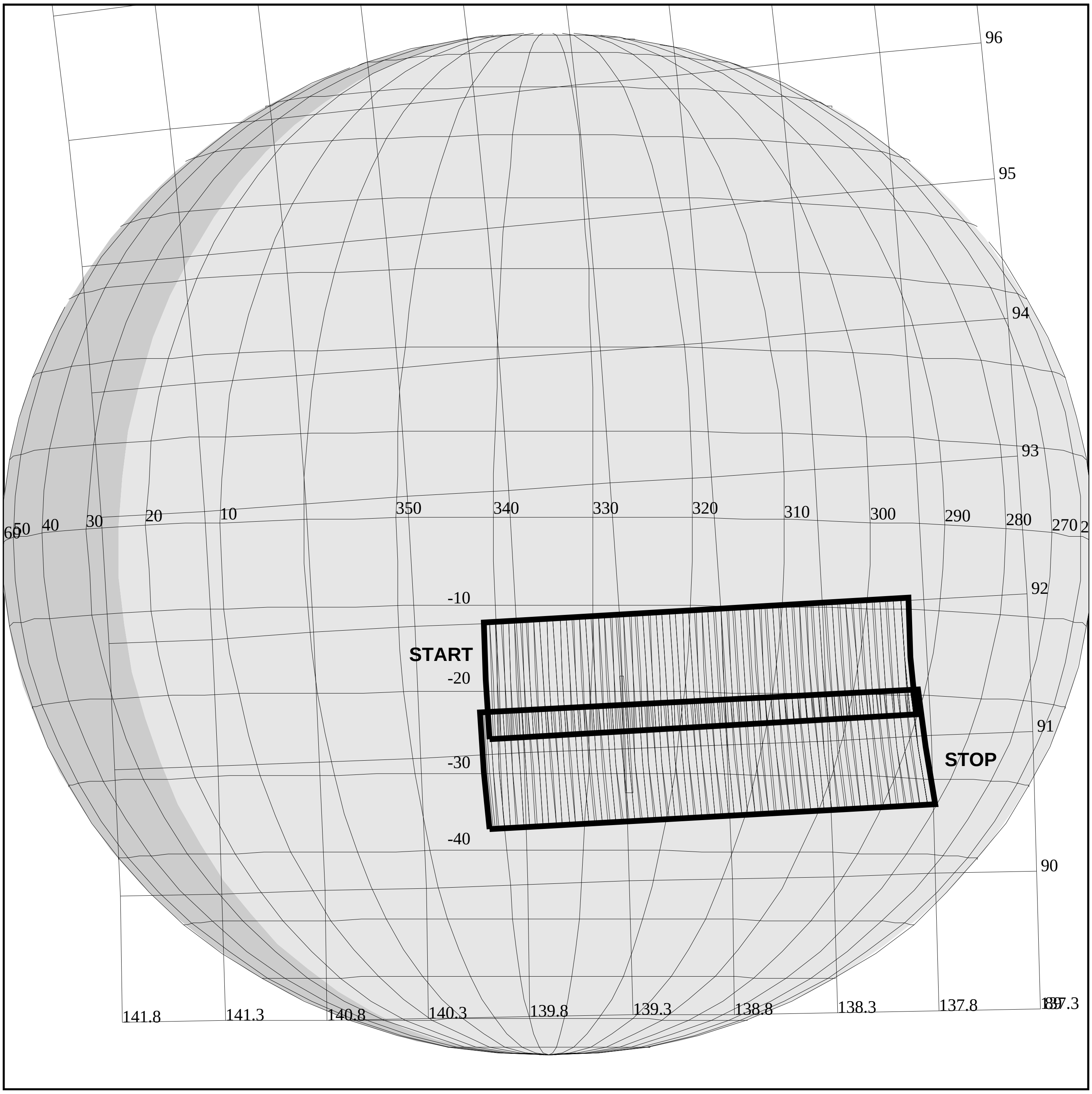
Design Detail

Continuous slew mosaic at Nyquist frequency over all visible longitude and latitudes to be executed at Callisto closest approach. Observation contains one swath.
Instrument mode: LM (Long Map)
Instrument gain: 4
Phase angle: 75.94
Spatial resolution: 955 km/NIMSel
Spectral resolution: 204 wavelengths
Coverage in NIMSels: Global
Record: LPU

Cone: 56 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, G1CLM245, G1CLM228

Galileo Activity Plan Form 05/09/96 18:13:52 rev 6/95



165DE:TT= 0 TMC= 1 C= 18.00 XC= 4.00 BS= 0/8459 TC= 1(-23 318)
A= 364 pD= 0 SR=17.430 RA50=239.41 DEC50=-20.62 cone=139.93 clock= 91.57
117DE:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/8459
1:#s= 2 Cs= -36.00 XCs= 0.00 Cr= 36.00 XCr= -8.00 sD= 960 rD= 30

G1JNGRS04102

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS04102

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: **THINNING:NIM**

START:JTE 96-180/00:31:20.266 -CDS 2035:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:G1JNGRS04102 **DESCRIP:GRS PHASE 41 #2**

GRS 41 Phase #2	ACTIVITY ID: G1JNGRS04102- START TIME: 96-178/14:11:42.266

Activity ID: Orbit G1 Target J Inst N OAPEL GRS041 SeqNo 02 -

Title	GRS 41 Phase #2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/26/96 Week 26

Start	JTE-CDS 2037:00:0	96-178/14:11:42.266	JTE-001/10:19:38.000
End	JTE-CDS 2024:00:0	96-178/14:24:50.933	JTE-001/10:06:29.333
Duration	13:00:0	000/00:13:08.667	000/00:13:08.667

Top Label G1JNGRS04102-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	193	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

41 degree phase observation of Great Red Spot (GRS) near minimum airmass. First of 2 observations acquired on this rotation, GRS assumed located at 321 degrees west longitude (System III), 23 degrees south latitude, 68 colors recorded using wavelength table JFT68C.

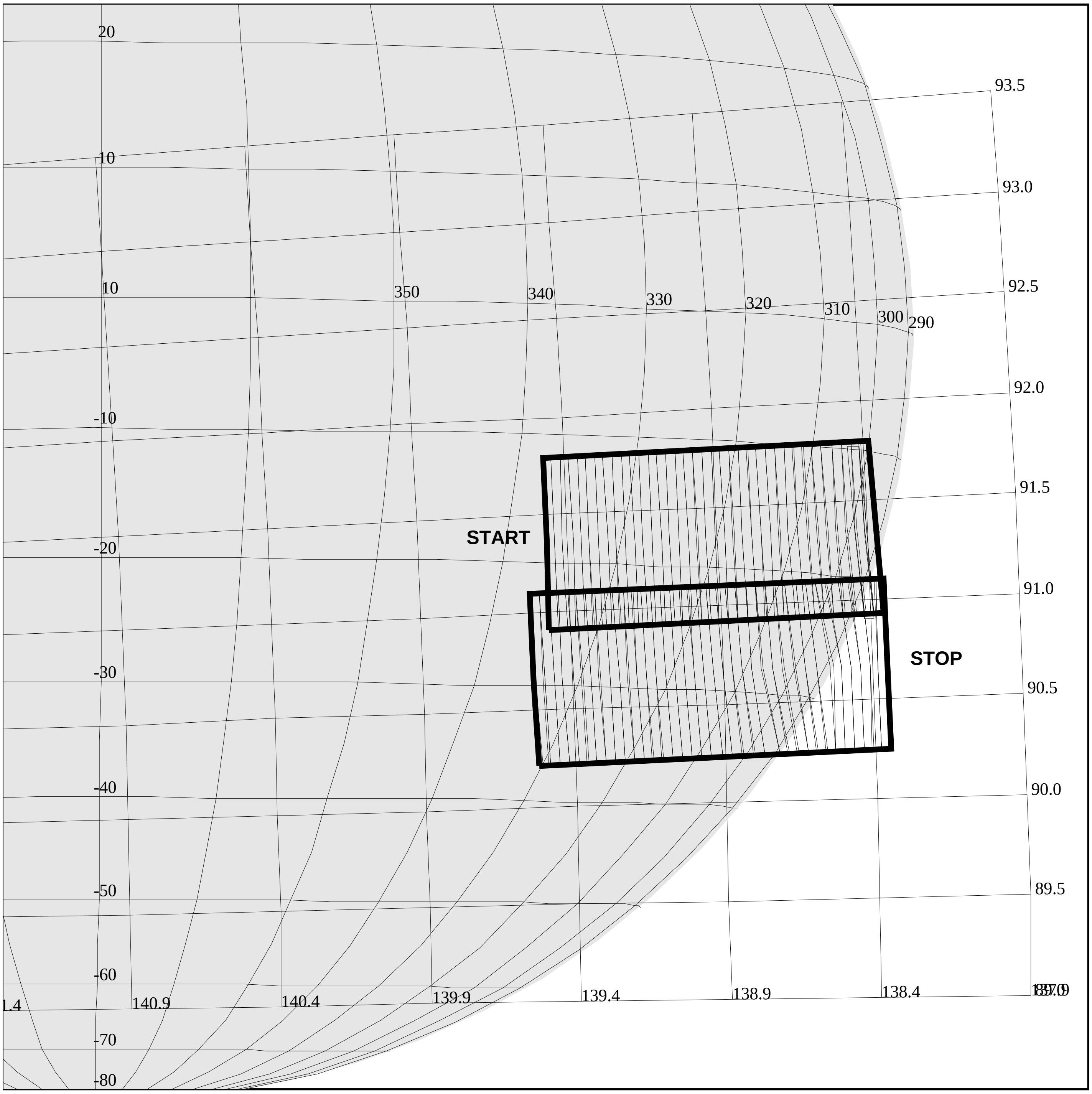
Data Returned

Design Detail

2*3 (~18 mrads N/S by ~30 mrads E/W) shortmap of Great Red Spot. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. 4 minutes reserved for targetting. Record duration: 717 seconds, accumulating 0.6441 MBTG in 68 colors and using 0.0241 tracks.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68C, G1JFT23A

Galileo Activity Plan Form   05/09/96 18:13:52   rev 6/95



165DG:TT= 0 TMC= 1 C= 9.50 XC= 4.00 BS= 0/9561 TC= 1(-23 318)
A= 364 pD= 0 SR=17.430 RA50=238.85 DEC50=-20.65 cone=139.43 clock= 91.31
117DG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9561
1:#s= 2 Cs= -18.00 XCs= 0.00 Cr= 19.00 XCr= -8.00 sD= 516 rD= 30

G1JNGRS04103

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS04103

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTE 96-180/00:31:20.266 -CDS 1974:00:0 **BODY PLOT TIME:START-TIME D= 0 S= 1.500**

OBSERVATION:G1JNGRS04103 **DESCRIP:GRS PHASE 41 #3**

GRS 41 Phase #3	ACTIVITY ID: G1JNGRS04103- START TIME: 96-178/15:13:22.933

Activity ID: Orbit G1 Target J Inst N OAPEL GRS041 SeqNo 03 -

Title	GRS 41 Phase #3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/26/96 Week 26

Start	JTE-CDS 1976:00:0	96-178/15:13:22.933	JTE-001/09:17:57.333
End	JTE-CDS 1968:05:0	96-178/15:21:24.933	JTE-001/09:09:55.333
Duration	7:86:0	000/00:08:02.000	000/00:08:02.000

Top Label G1JNGRS04103-
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

41 degree phase observation of Great Red Spot (GRS) near evening terminator. Second of 2 observations acquired on this rotation, GRS assumed located at 321 degrees west longitude (System III), 23 degrees south latitude, 68 colors recorded using wavelength table JFT68C.

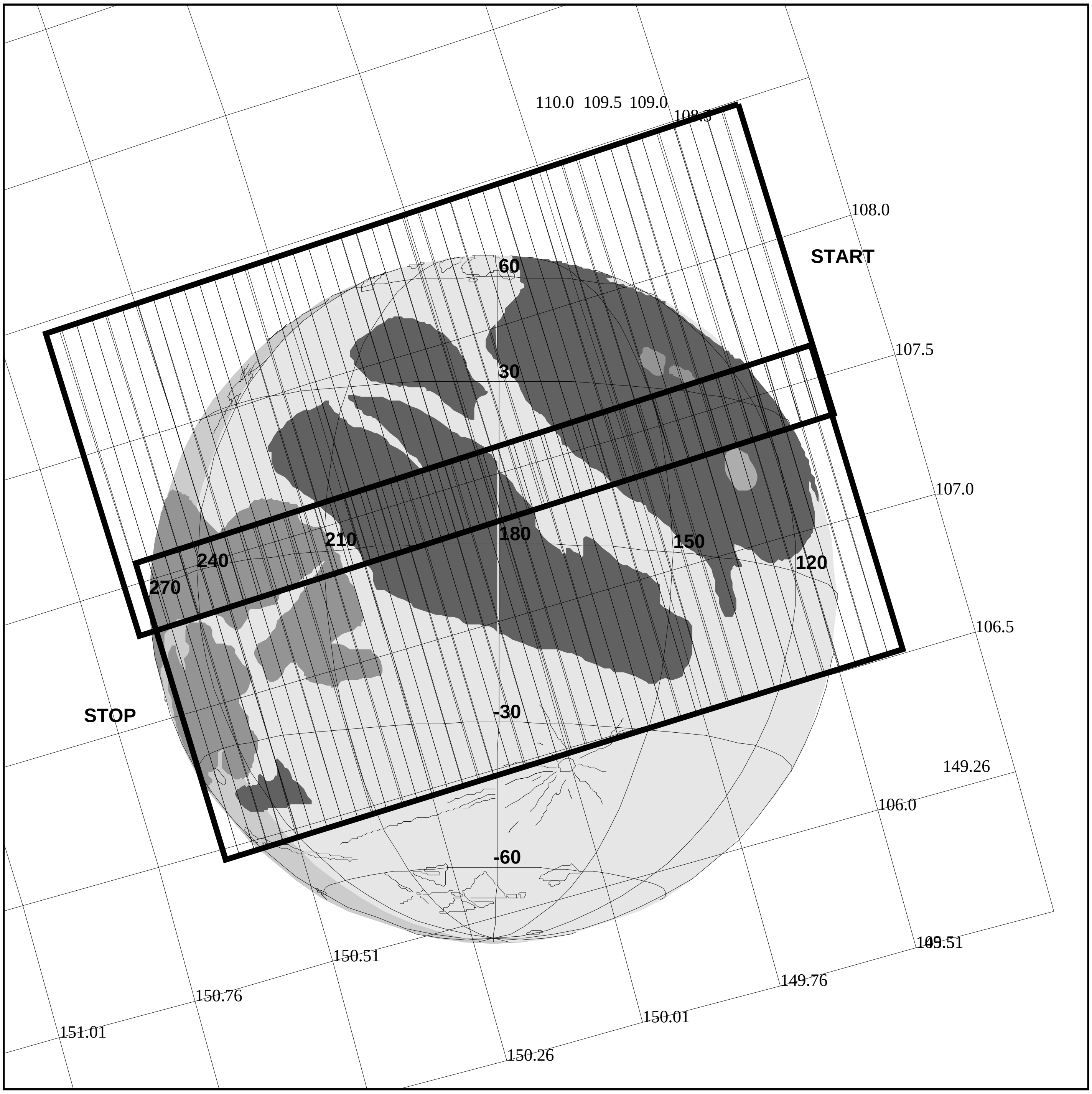
Data Returned

Design Detail

2*2 (~18 mrads N/S by ~20 mrads E/W) shortmap of Great Red Spot. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. 2 minutes reserved for targetting. Record duration: 426 seconds, accumulating 0.3827 MBTG in 68 colors and using 0.0143 tracks.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68C, G1JFT23A

Galileo Activity Plan Form 05/09/96 18:13:52 rev 6/95



165DI:TT= 0 TMC= 1 C= -11.50 XC= 7.35 BS= 0/6719 TC= 3
A= 546 pD= 0 SR=17.450 RA50=252.00 DEC50=-14.83 cone=149.40 clock=107.89
117DI:#SB= 1 OR= 0.030 RR= 7.000 BM=F RC= 1 BS= 0/6719
1:#s= 2 Cs= 22.60 XCs= 0.00 Cr= -22.70 XCr= -7.50 sD= 2266 rD= 22

G1GNGLOBAL01

DESIGN G1.0 clee : 5/22/1996 11:22: 8

FILE:P.G1GNGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.G1GNGLOBAL01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:GEE 96-179/06:29:26.933 -CDS 535:00:0

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

OBSERVATION:G1GNGLOBAL01

DESCRIP:Global_observation_of_Ganymede

GANYMEDE GLOBAL SURFACE MAP		ACTIVITY ID:	G1GNGLOBAL01-
		START TIME:	96-178/21:23:26.933

Activity ID: Orbit G1 Target G Inst N OAPEL GLOBAL SeqNo 01 -

Title	GANYMEDE GLOBAL SURFACE MAP			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/26/96 Week 26

Start	GEE-CDS 540:00:0	96-178/21:23:26.933	GEE-000/09:06:00.000
End	GEE-CDS 510:00:0	96-178/21:53:45.600	GEE-000/08:35:41.333
Duration	29:89:0	000/00:30:18.667	000/00:30:18.667

Top Label G1GNGLOBAL01-
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

To obtain high spectral resolution map of the whole satellite disk. This observation investigates the surface mineralogy and determines the distribution of compositional units in a global context. The global map can be used to compare Ganymede’s similarity to or difference from the other satellites.

Data Returned

Design Detail

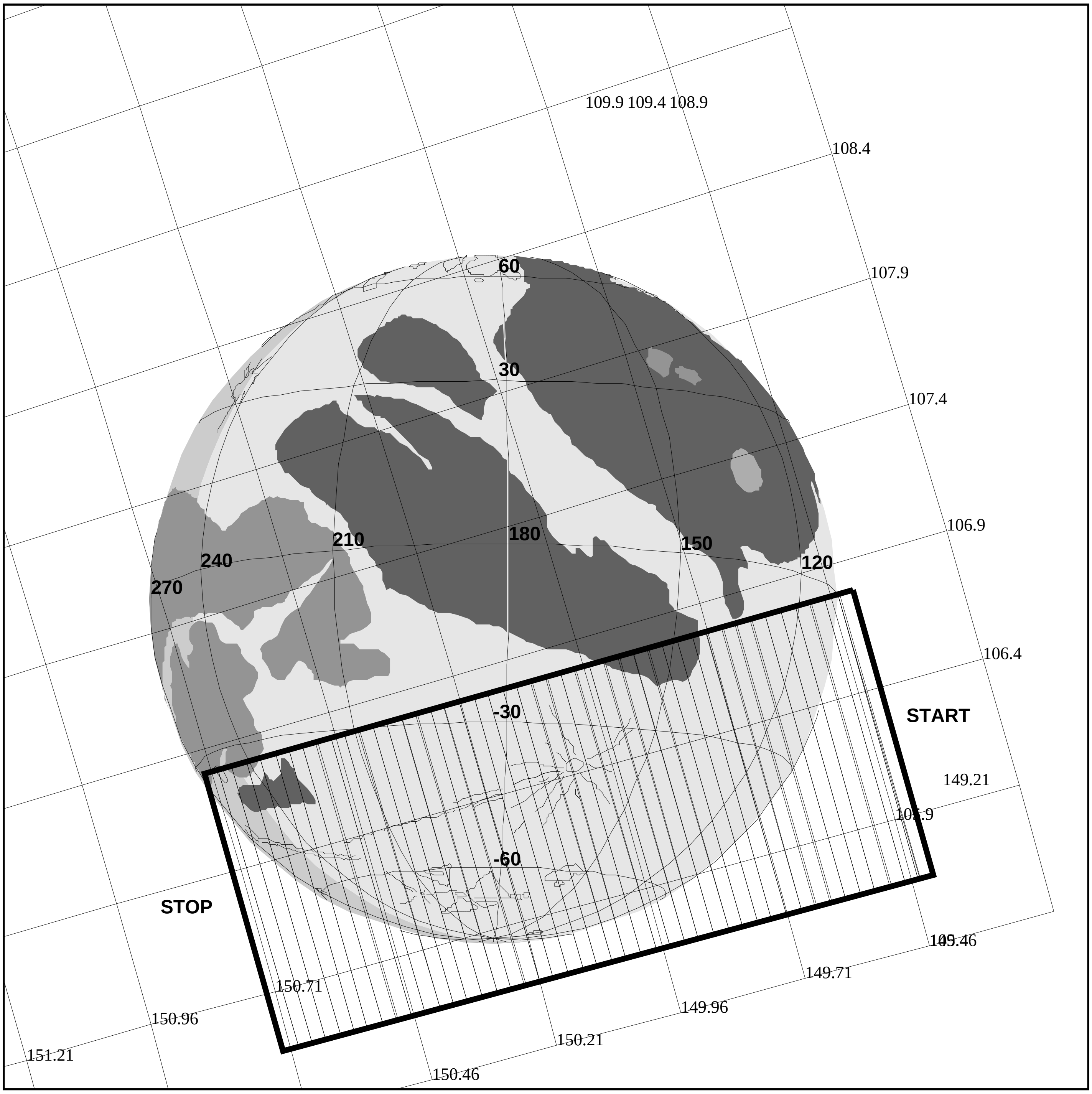
This is first of 5 global observations to cover all longitudes.
Continuous slew mosaic (CSMOS) over all lit surface. Scan platform slew rate is 0.03 mrad/sec, to achieve Nyquist sampling rate.
This observation consists of three swaths.

Spatial resolution: <114> km/NIMSel;	Phase:<30> degrees
Incidence angle:<80> degrees;	Emission angle:<70> degrees
NIMS mode: LM (Long Map);	gain:3
chopper: Reference;	grating start position: 0
grating offset: 4;	# wavelengths: 228 recorded

Record format: LPU
A track change is forced during the observation to track 3 from 2.
Cone: 150 degrees.
This observation is in two parts. This is the first part.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1GLM245D, G1GLM228

Galileo Activity Plan Form 05/09/96 18:13:52 rev 6/95



165KA:TT= 0 TMC= 1 C= -11.50 XC= -8.00 BS=86/5091 TC= 3
A= 182 pD= 0 SR=17.450 RA50=251.67 DEC50=-15.64 cone=149.43 clock=106.19
117KA:#SB= 1 OR= 0.030 RR= 7.000 BM=F RC= 1 BS=86/5091
1:#s= 1 Cs= 23.00 XCs= 0.00 Cr= -23.10 XCr= -7.50 sD= 2306 rD= 22

G1GNGLOBAL02

DESIGN G1.0 clee : 5/22/1996 11:23:16

FILE:P.G1GNGLOBAL02

TARGET BODY : GANYMEDE

MINI:m.G1GNGLOBAL02

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GEE 96-179/06:29:26.933 -CDS 489:00:0

OBSERVATION:G1GNGLOBAL02

THINNING:NIM 2

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

DESCRIP:Global_observation_of_Ganymede

GANYMEDE GLOBAL SURFACE MAP ACTIVITY ID: G1GNGLOBAL02-
START TIME: 96-178/22:12:59.600

Activity ID: Orbit G1 Target G Inst N OAPEL GLOBAL SeqNo 02 -

Title	GANYMEDE GLOBAL SURFACE MAP			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/26/96	Week	26

Start	GEE-CDS 491:00:0	96-178/22:12:59.600	GEE-000/08:16:27.333
End	GEE-CDS 475:35:0	96-178/22:28:46.933	GEE-000/08:00:40.000
Duration	15:56:0	000/00:15:47.333	000/00:15:47.333

Top Label	G1GNGLOBAL02-
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

To obtain high spectral resolution map of the whole satellite disk. This observation investigates the surface mineralogy and determines the distribution of compositional units in a global context. The global map can be used to compare Ganymede’s similarity to or difference from the other satellites.

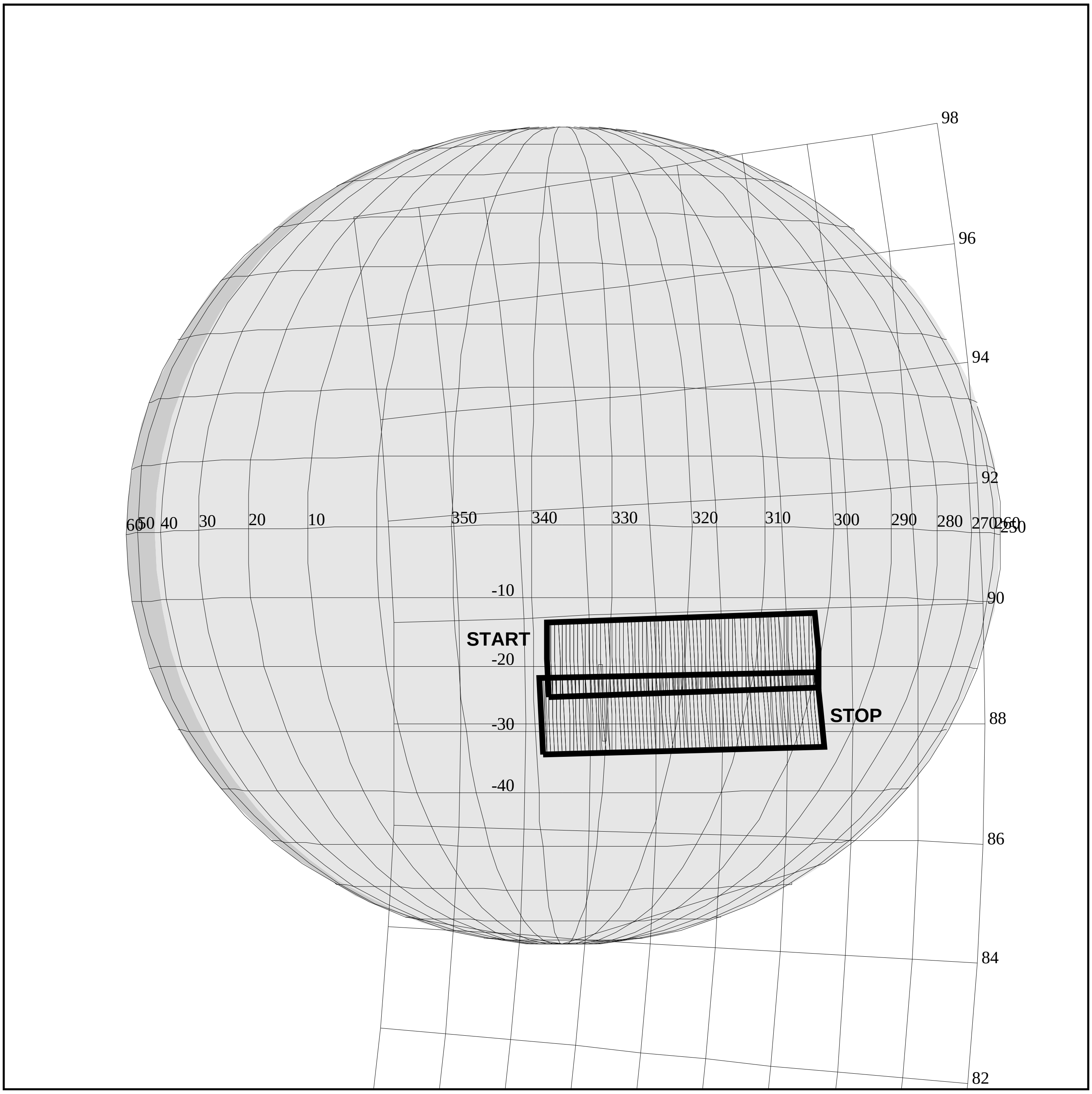
Data Returned

Design Detail

This is first of 5 global observations to cover all longitudes.
Continuous slew mosaic (CSMOS) over all lit surface. Scan platform slew rate is 0.03 mrad/sec, to achieve Nyquist sampling rate.
This observation consists of three swaths.
Spatial resolution: <114> km/NIMSel; Phase:<30> degrees
Incidence angle:<80> degrees; Emission angle:<70> degrees
NIMS mode: LM (Long Map); gain:3
chopper: Reference; grating start position: 0
grating offset: 4; # wavelengths: 228 recorded
Record format: LPU
A track change is forced during the observation to track 3 from 2.
Cone: 150 degrees.
This observation is in two parts. This is the second part.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1GLM245D, G1GLM228

Galileo Activity Plan Form 05/09/96 18:13:52 rev 6/95



165FV:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0935 TC= 1(-19 338)
A= 182 pD= 0 SR=17.430 RA50=256.35 DEC50=-24.80 cone=156.04 clock= 89.21
117FV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0935
1:#s= 2 Cs= -35.00 XCs= 0.00 Cr= 36.00 XCr= -8.00 sD= 972 rD= 36

G1JNGRS02501

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS02501

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTE 96-180/00:31:20.266 -CDS 1417:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:G1JNGRS02501 **DESCRIP:GRS PHASE 25 #1**

GRS 25 Phase #1

ACTIVITY ID: G1JNGRS02501-
START TIME: 96-179/00:37:34.933

Activity ID: Orbit G1 Target J Inst N OAPEL GRS025 SeqNo 01 -

Title	GRS 25 Phase #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/27/96 Week 26

Start	JEE-CDS 1418:00:0	96-179/00:37:34.933	JEE-000/23:53:45.333
End	JEE-CDS 1406:00:0	96-179/00:49:42.933	JEE-000/23:41:37.333
Duration	12:00:0	000/00:12:08.000	000/00:12:08.000

Top Label G1JNGRS02501-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

25 degree phase observation of Great Red Spot (GRS) near central meridian. This is the only observation acquired on this rotation. GRS assumed located at 321 degrees west longitude (System III), 23 degrees south latitude, 4 colors recorded using wavelength table JFT04A.

Data Returned

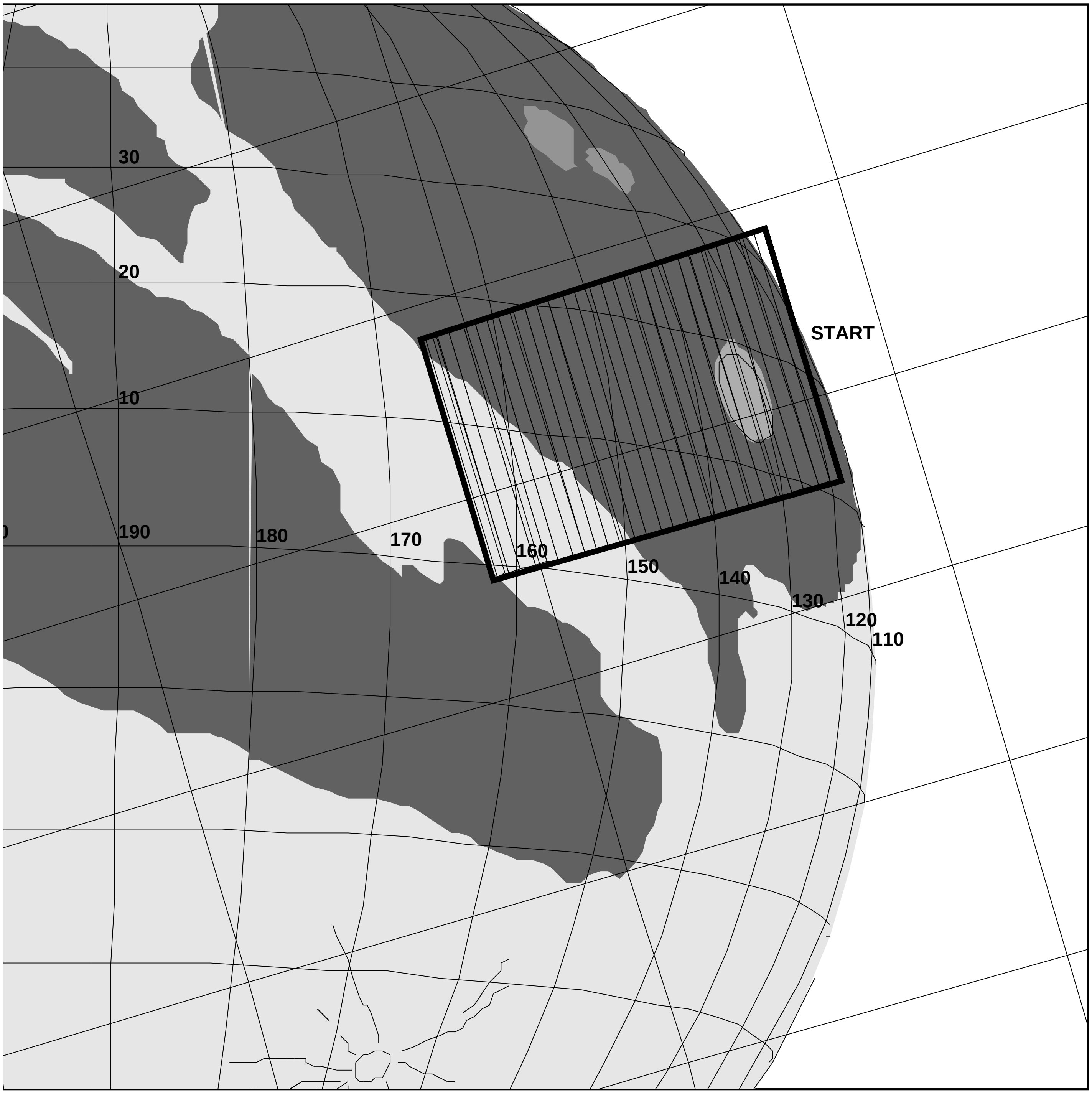
Design Detail

2*3 (~18 mrads N/S by ~30 mrads E/W) shortmap of Great Red Spot. Use minimum time from prior Jupiter observation for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration 723 seconds, accumulating 0.1847 MBTG in 4 colors and using 0.0243 tracks.

Cone: 156 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68A, G1JFT19C

Galileo Activity Plan Form 05/09/96 18:13:52 rev 6/95



165DK:TT= 0 TMC= 1 C= -2.50 XC= 1.00 BS= 0/8963 TC= 1(15.5 133)
A= 728 pD= 1456 SR=17.450 RA50=251.95 DEC50=-15.18 cone=149.50 clock=107.23
117DK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8963
1:#s= 1 Cs= 13.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1456 rD= 2

G1GNMEMPIS01

DESIGN G1.0 clee : 5/23/1996 7:31:17

FILE:P.G1GNMEMPIS01

TARGET BODY : GANYMEDE

MINI:m.G1GNMEMPIS01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 193:00:0

OBSERVATION:G1GNMEMPIS01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1456 S= 0.800

DESCRIP:Memphis Facula&dark furrow regio

Memphis Facula Furrows/Palimpsest	ACTIVITY ID: G1GNMEMPIS01-
	START TIME: 96-179/03:10:15.600

Activity ID: Orbit G1 Target G Inst N OAPEL MEMPIS SeqNo 01 -

Title	Memphis Facula Furrows/Palimpsest	Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224 Team NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/27/96 Week 26

Start	GTE-CDS 197:00:0	96-179/03:10:15.600	GTE-000/03:19:11.333
End	GTE-CDS 183:00:0	96-179/03:24:24.933	GTE-000/03:05:02.000
Duration	14:00:0	000/00:14:09.333	000/00:14:09.333

Top Label G1GNMEMPIS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	214	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To study Memphis Facula and its surroundings. Memphis is located in the leading hemisphere. It is a palimpsest and its surrounding area has dark terrain and furrow structure. The NIMS spectral information can help understand the formation of palimpsests and the mode of emplacement of the furrowed terrains. It can also help the identification of non-water ice materials and the mineralogy of dark material. This observation overlaps with SSI coverage.

Data Returned

Design Detail

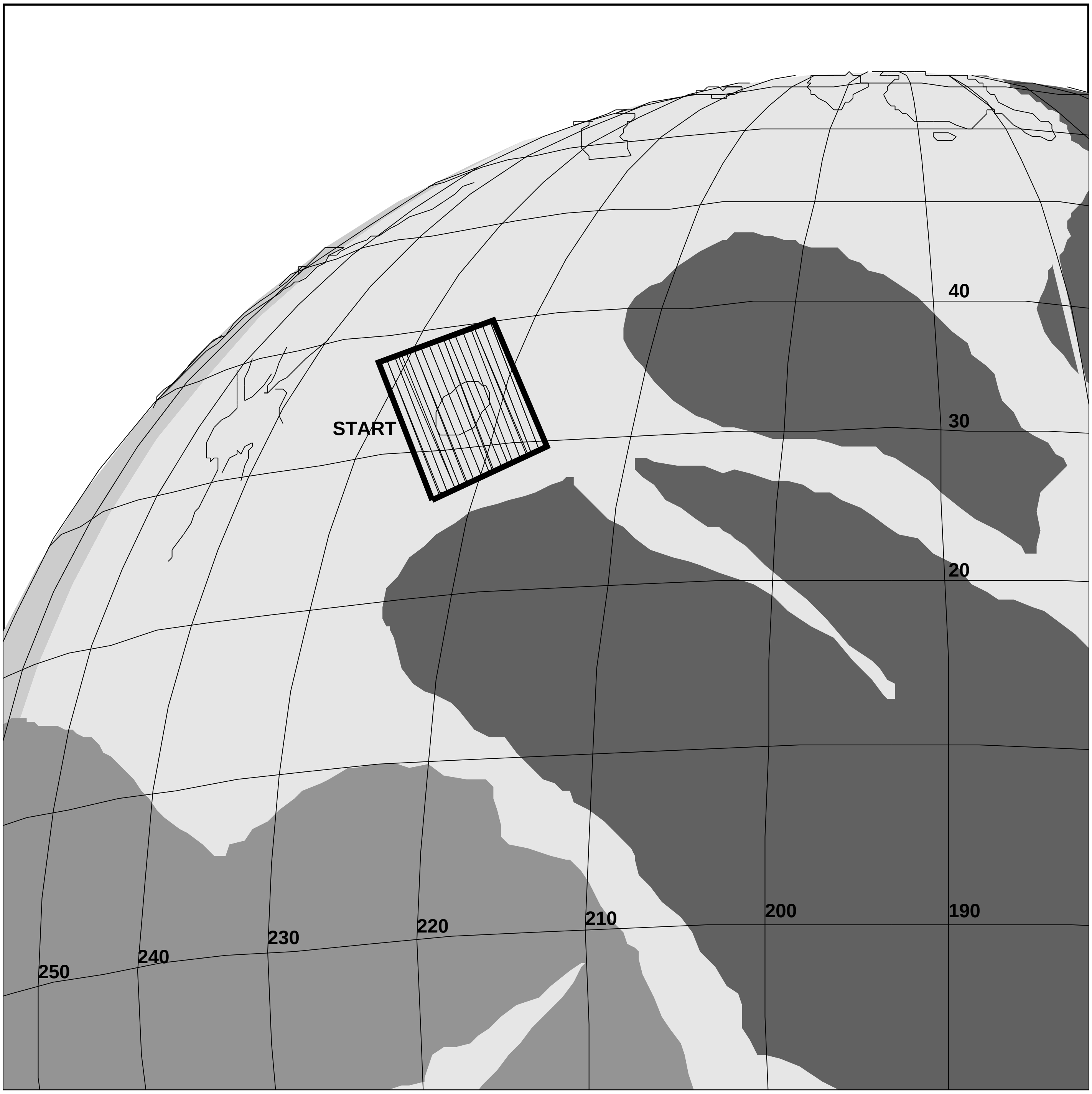
One continuous slew across Memphis Facula at slew rate of 0.03 mrad/sec. Longitude covers from 120 to 160 degrees, with Memphis located at latitude ~18 and longitude of ~133.

Spatial resolution: <42> km/NIMSel;	Phase:<30> degrees
Incidence angle: <30>;	Emission angle: <55>
NIMS Mode: LM (Long Map);	Gain:3
Chopper: Reference;	Grating Start position: 0
Grating offset: 4	# wavelengths: 228 recorded
Record format: LPU	

Cone: 150 degrees.

Long Map (LM), Gain 3, Grating Start 0, LPU, G1GLM245F, G1GLM228

Galileo Activity Plan Form 05/09/96 18:13:52 rev 6/95



165DN:TT= 0 TMC= 1 C= 4.00 XC= 0.00 BS= 0/8437 TC= 1(33 223)
A= 546 pD= 888 SR=17.450 RA50=258.09 DEC50=-15.48 cone=154.99 clock=112.03
117DN:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/8437
1:#s= 1 Cs= -8.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 888 rD= 2

G1GNAMON__01

DESIGN G1.0 clee : 5/22/1996 11:31:15

FILE:P.G1GNAMON__01

TARGET BODY : GANYMEDE

MINI:m.G1GNAMON__01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 86:00:0

OBSERVATION:G1GNAMON__01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 888 S= 1.000

DESCRIP:Bright_ray_crater/endmember_trai

AMON Bright rayed crater/groove terrain	ACTIVITY ID:	G1GNAMON__01-
	START TIME:	96-179/04:59:27.600

Activity ID: Orbit G1 Target G Inst N OAPEL AMON__ SeqNo 01 -

Title	AMON Bright rayed crater/groove terrain			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/27/96	Week	26

Start	GTE-CDS 89:00:0	96-179/04:59:27.600	GTE-000/01:29:59.333
End	GTE-CDS 80:00:0	96-179/05:08:33.600	GTE-000/01:20:53.333
Duration	9:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	G1GNAMON__01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	207	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To study bright ray crater, Amon, grooved terrain, variability among mineralogies of grooved terrains. Also to study bright endmember on trailing hemisphere, identification of ice excavation in impacts.

Data Returned

Design Detail

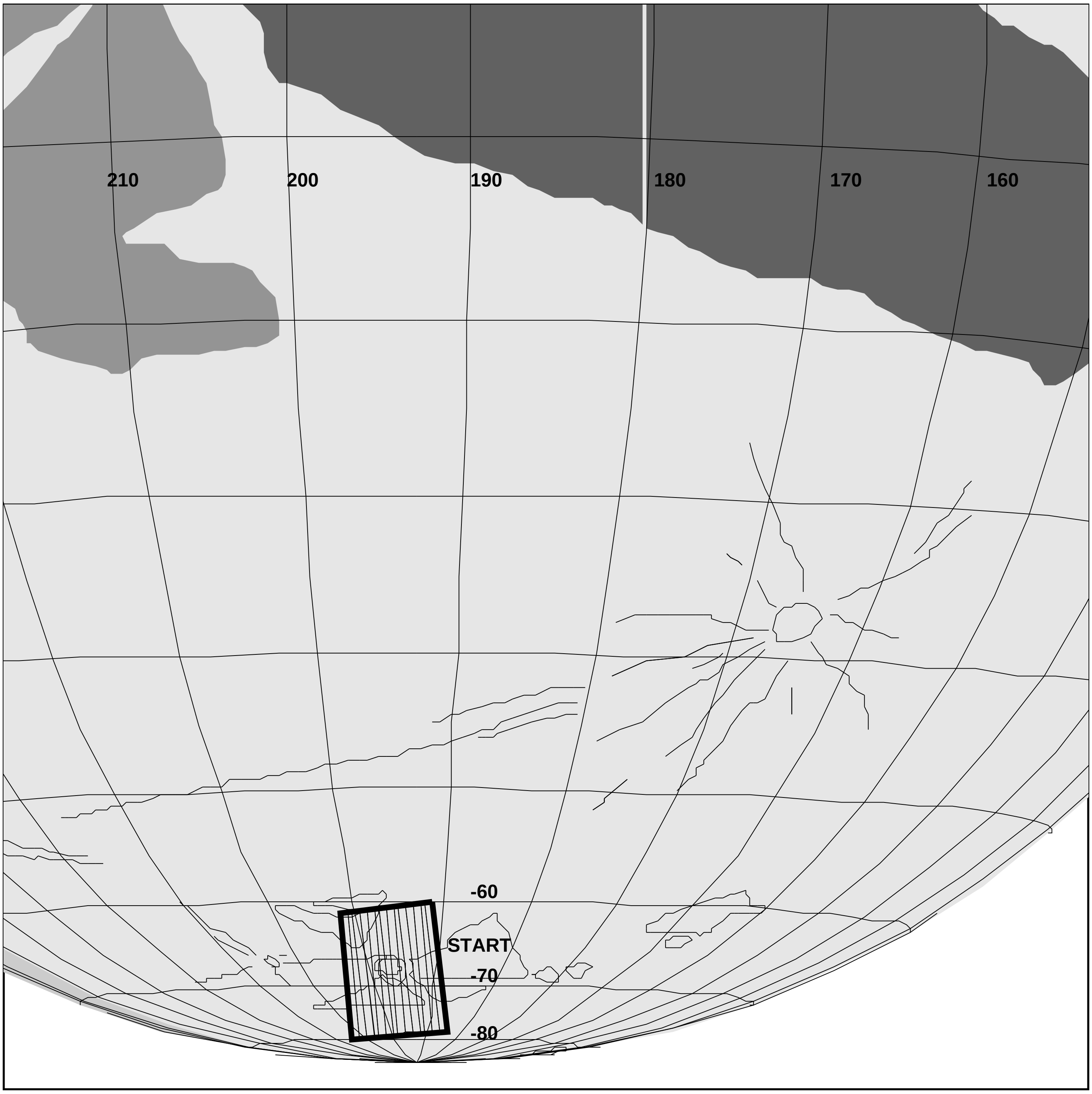
One continuous slew across the crater and the groove terrain. Amon is located in one end of the swath and the rest of the swath over the groove terrain. Slew rate is 0.03 mrad/sec for Nyquist sampling rate. Amon is located at lat. ~32 and lon. ~222 deg.

Spatial resolution: <20> km/NIMSel;	Phase angle: <26> degrees
Incidence angle: <63> degrees;	Emission angle: <54> degrees
NIMS: Mode: LM (Long Mode);	Gain: 2
Chopper: Reference;	Grating start position: 0
Grating offset: 4	# wavelengths: 228 recorded
Recorded format: LPU	

Cone: 155 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1GLM245E, G1GLM228

Galileo Activity Plan Form 05/09/96 18:13:53 rev 6/95



165DO:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/0075 TC= 1(-68 196.5)
A= 546 pD= 706 SR=17.450 RA50=255.93 DEC50=-21.97 cone=155.21 clock= 95.83
117DO:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/0075
1:#s= 1 Cs= 7.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 706 rD= 2

G1GNPTAH__01

DESIGN G1.0 clee : 5/23/1996 7:40:30

FILE:P.G1GNPTAH__01

TARGET BODY : GANYMEDE

MINI:m.G1GNPTAH__01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 77:00:0

OBSERVATION:G1GNPTAH__01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 706 S= 1.000

DESCRIP:Ray_craters/brigt_s_pole

RAYED CRATER PTAH	ACTIVITY ID: G1GNPTAH__01-
	START TIME: 96-179/05:08:33.600

Activity ID: Orbit G1 Target G Inst N OAPEL PTAH__ SeqNo 01 -

Title	RAYED CRATER PTAH			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/27/96 Week 26

Start	GTE-CDS 80:00:0	96-179/05:08:33.600	GTE-000/01:20:53.333
End	GTE-CDS 72:00:0	96-179/05:16:38.933	GTE-000/01:12:48.000
Duration	8:00:0	000/00:08:05.333	000/00:08:05.333

Top Label G1GNPTAH__01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	207	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To study rayed craters PTAH (near south pole): definition of exogenic/endogenic modification during impacts. The bright areas may trap more volatiles than water.

Data Returned

Design Detail

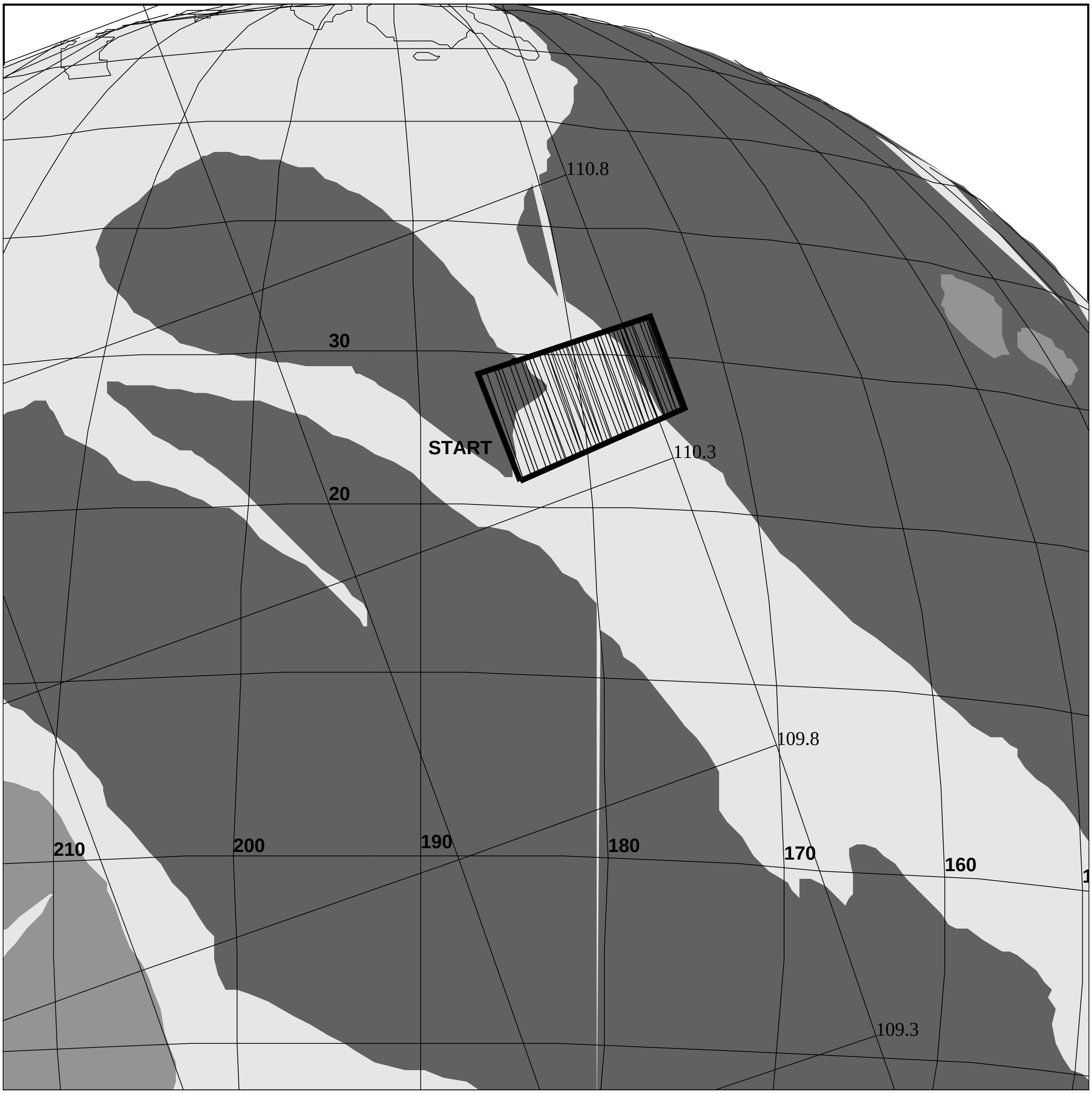
One continuous slew across the two craters. The slew rate is 0.03 mrad/sec. The swath centers the crater, near the lat ~68 and lon ~200 deg.

Spatial resolution: <17> km/NIMSel;	Phase angle: <25> degrees
Incidence angle: <72> degrees;	Emission angle: <66> degrees
NIMS Mode: LM (Long Map);	Gain: 3
Chopper: Reference;	Grating start position: 0
Grating offset: 4	# wavelengths: 228 recorded
Record format: LPU	

Cone: 155 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1GLM245C, G1GLM228

Galileo Activity Plan Form 05/09/96 18:13:53 rev 6/95



165DP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1713 TC= 1(25 185)
A= 546 pD= 2002 SR=17.450 RA50=256.67 DEC50=-15.81 cone=153.90 clock=109.98
117DP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1713
1:#s= 1 Cs= -19.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 2002 rD= 2

G1GNNIPPUR01

DESIGN G1.0 clee : 5/23/1996 7:36:32

FILE:P.G1GNNIPPUR01

TARGET BODY : GANYMEDE

MINI:m.G1GNNIPPUR01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 68:00:0

OBSERVATION:G1GNNIPPUR01

THINNING:NIM

BODY PLOT TIME:TARGET-TIME D= 2002 S= 1.000

DESCRIP:Nippur Sulcus groove&furrow

NIPPUR SULCUS (furrows/dark/groove) ACTIVITY ID: G1GNNIPPUR01-
START TIME: 96-179/05:16:38.933

Activity ID: Orbit G1 Target G Inst N OAPEL NIPPUR SeqNo 01 -

Title	NIPPUR SULCUS (furrows/dark/groove)			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/27/96 Week 26

Start	GTE-CDS 72:00:0	96-179/05:16:38.933	GTE-000/01:12:48.000
End	GTE-CDS 57:00:0	96-179/05:31:48.933	GTE-000/00:57:38.000
Duration	15:00:0	000/00:15:10.000	000/00:15:10.000

Top Label G1GNNIPPUR01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	183	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To study the variable mineralogy among the grooved and furrowed terrains. Also to search for irradiation generated products (such as SO2 and H2S) in this trailing hemisphere.

Data Returned

Design Detail

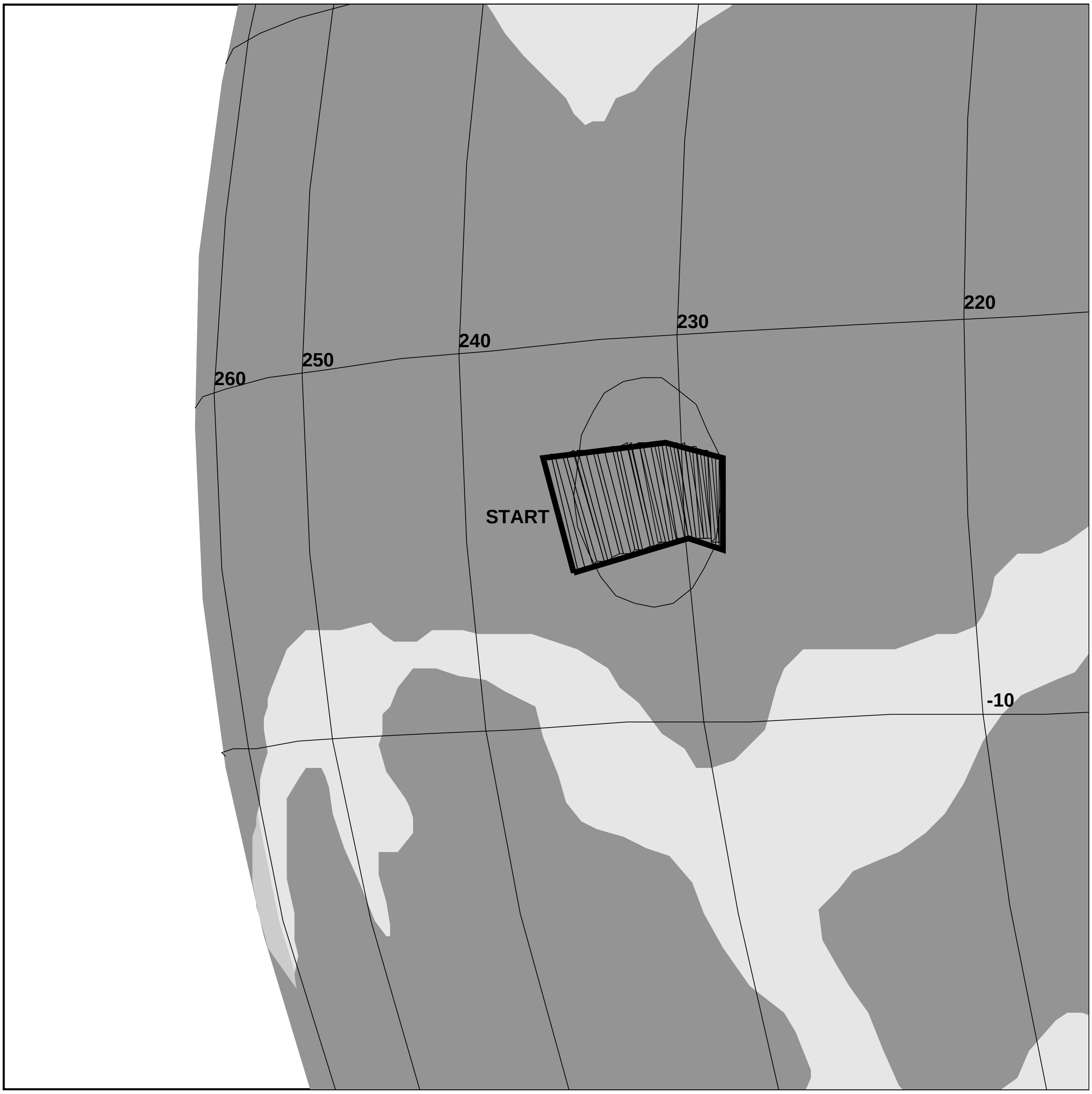
One continuous swath across part of the Nippur Suclus area, latitude ~25 degrees and longitude ~180 degrees. Slew rate is 0.03 mrad/sec to achieve Nyquist sampling rate.

Spatial resolution: <12> km/NIMSel;	Phase angle: <26> degrees
Incidence angle: <32> degrees;	Emission angle: <40> degrees
NIMS Mode: LM (Long Map);	Gain: 3
Chopper: Reference;	Grating start position: 0
Grating offset: 4	# wavelengths: 228 recorded
Record format: LPU	

Cone: 154 degrees.

Long Map (LM), Gain 3, Grating Start 0, LPU, G1GLM245B, G1GLM228

Galileo Activity Plan Form 05/09/96 18:13:53 rev 6/95



165DS:TT= 0 TMC= 1 C= 7.50 XC= 0.00 BS= 0/7901 TC= 1(-4 231.5)
A= 342 pD= 1606 SR=17.440 RA50=271.25 DEC50=-22.87 cone=169.23 clock=103.39
117DS:#SB= 1 OR= 0.030 RR=17.450 BM=F RC= 1 BS= 0/7901
1:#s= 1 Cs= -16.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1606 rD= 12

G1GNMIRRAY01

DESIGN G1.0 clee : 5/23/1996 7:33:33

FILE:P.G1GNMIRRAY01

TARGET BODY : GANYMEDE

MINI:m.G1GNMIRRAY01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:GTE 96-179/06:29:26.933 -CDS 34:00:0

OBSERVATION:G1GNMIRRAY01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1606 S= 2.000

DESCRIP:Dark_ray_crater

Mir a dark rayed crater	ACTIVITY ID:	G1GNMIRRAY01-
	START TIME:	96-179/05:52:02.267

Activity ID: Orbit G1 Target G Inst N OAPEL MIRRAY SeqNo 01 -

Title	Mir a dark rayed crater			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/27/96 Week 26

Start	GTE-CDS 37:00:0	96-179/05:52:02.267	GTE-000/00:37:24.666
End	GTE-CDS 25:00:0	96-179/06:04:10.267	GTE-000/00:25:16.666
Duration	12:00:0	000/00:12:08.000	000/00:12:08.000

Top Label G1GNMIRRAY01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	183	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To study dark rayed crater for mineralogy of impactors, exogenic modification of surface during impact.

Data Returned

Design Detail

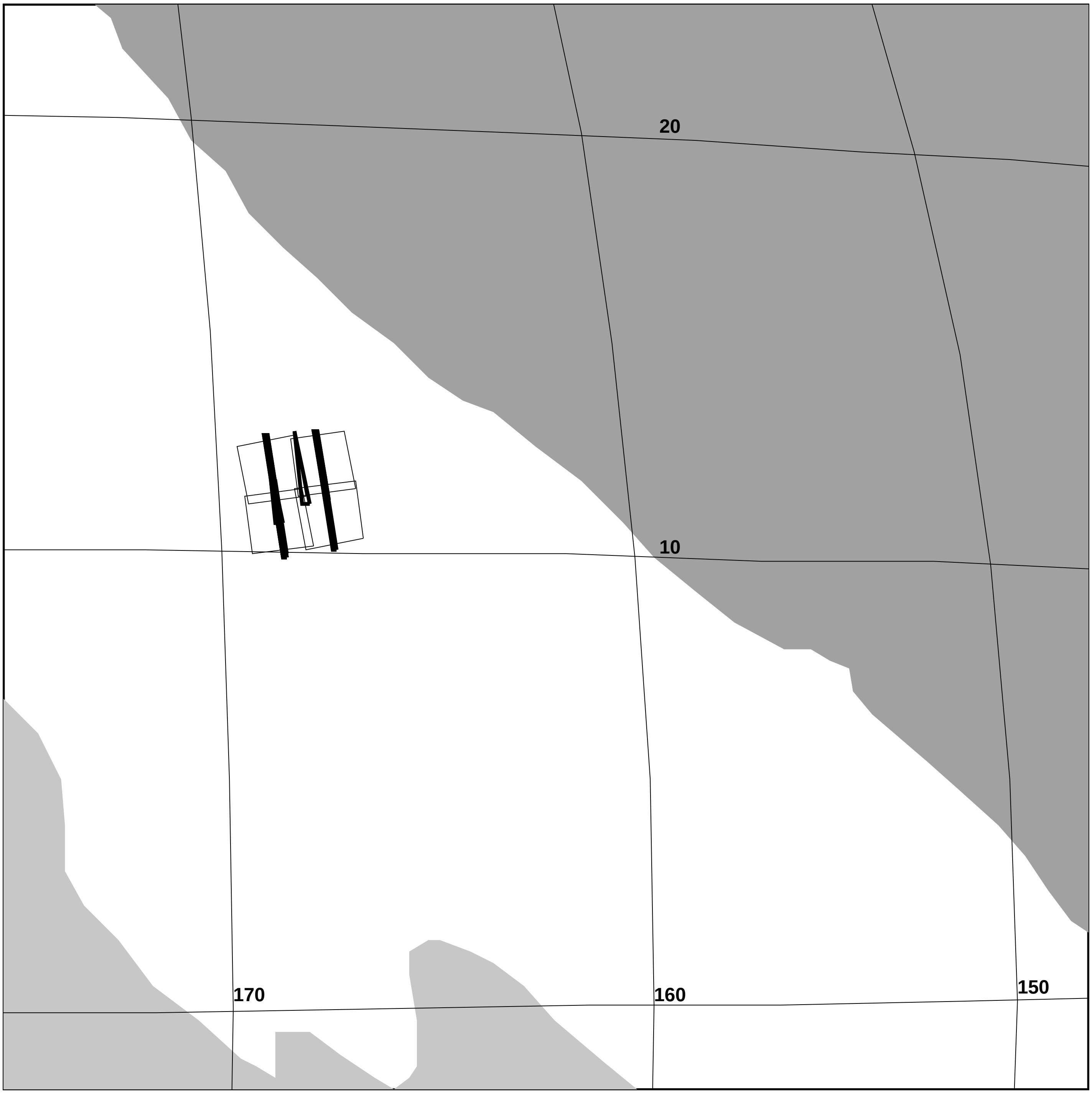
One continuous swath across the crater, with Mir centered, lat ~-5 and lon ~235 deg. Slew rate is 0.03 mrad/sec to achieve Nyquist sampling rate.

Spatial resolution: <6> km/NIMSel; Phase angle: <8> degrees
Incidence angle: <64> degrees; Emission angle: <55> degrees
NIMS Mode: LM (Long Map); Gain: 3
Chopper: Reference; Grating start position: 0
Grating offset: 4 # wavelengths: 228 recorded and returned
Record format: LPU
Command after this observation to XM to ride along with SSI observations

Cone: 173 degrees.

Long Map (LM), Gain 3, Grating Start 0, LPU, G1GLM245A, G1GLM228

Galileo Activity Plan Form 05/09/96 18:13:53 rev 6/95



165IM:TT= 0 TMC= 1 C= -3.50 XC= -3.50 BS=39/0267 TC= 1(11.34 168.1)
A= 714 pD= 104 SR=17.450 RA50=264.91 DEC50=-23.19 cone=196.42 clock= 97.00
118IM:#SB= 1 Cs= -7.00 XCs= 0.00 TPP= 26 SR= 3.000 RR= 7.000 BM=T RC= 1 BS=42/0267
1:#s= 2 #p= 2 Cr= 0.00 XCr= -7.00

G1GNURUSUL01

DESIGN G1.0 clee : 5/23/1996 7:43:53

FILE:P.G1GSURUSUL01

TARGET BODY : GANYMEDE

Ride-Along with SSI 2x2

MINI:m.G1GSURUSUL01

S/C EPH:/DATA/NAVIO/T-960110-ALL.NS

PERIAPSIS:

THINNING:NIM 1

START:GTE 96-179/06:29:26.933 -CDS 21:00:0

BODY PLOT TIME:TARGET-TIME D= 104 S= 2.000

OBSERVATION:G1GSURUSUL01

DESCRIP:2x2_mosaic_of_Uruk_Sulcus

NIMS ride with SSI on Uru Sulcus		ACTIVITY ID:	G1GNURUSUL01*
		START TIME:	96-179/06:04:10.267

Activity ID: Orbit G1 Target G Inst N OAPEL URUSUL SeqNo 01 *

Title	NIMS ride with SSI on Uru Sulcus			Instrument	NIMS
Requestor	NIMS-SWG/K. BAINES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/27/96	Week	26

Start	GTE-CDS 25:00:0	96-179/06:04:10.267	GTE-000/00:25:16.666
End	GTE-CDS 20:00:0	96-179/06:09:13.600	GTE-000/00:20:13.333
Duration	5:00:0	000/00:05:03.333	000/00:05:03.333

Top Label   G1GNURUSUL01*
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	52	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To do joint science study of Uru Sulcus with SSI. This will be part of the early image return, so it is important.

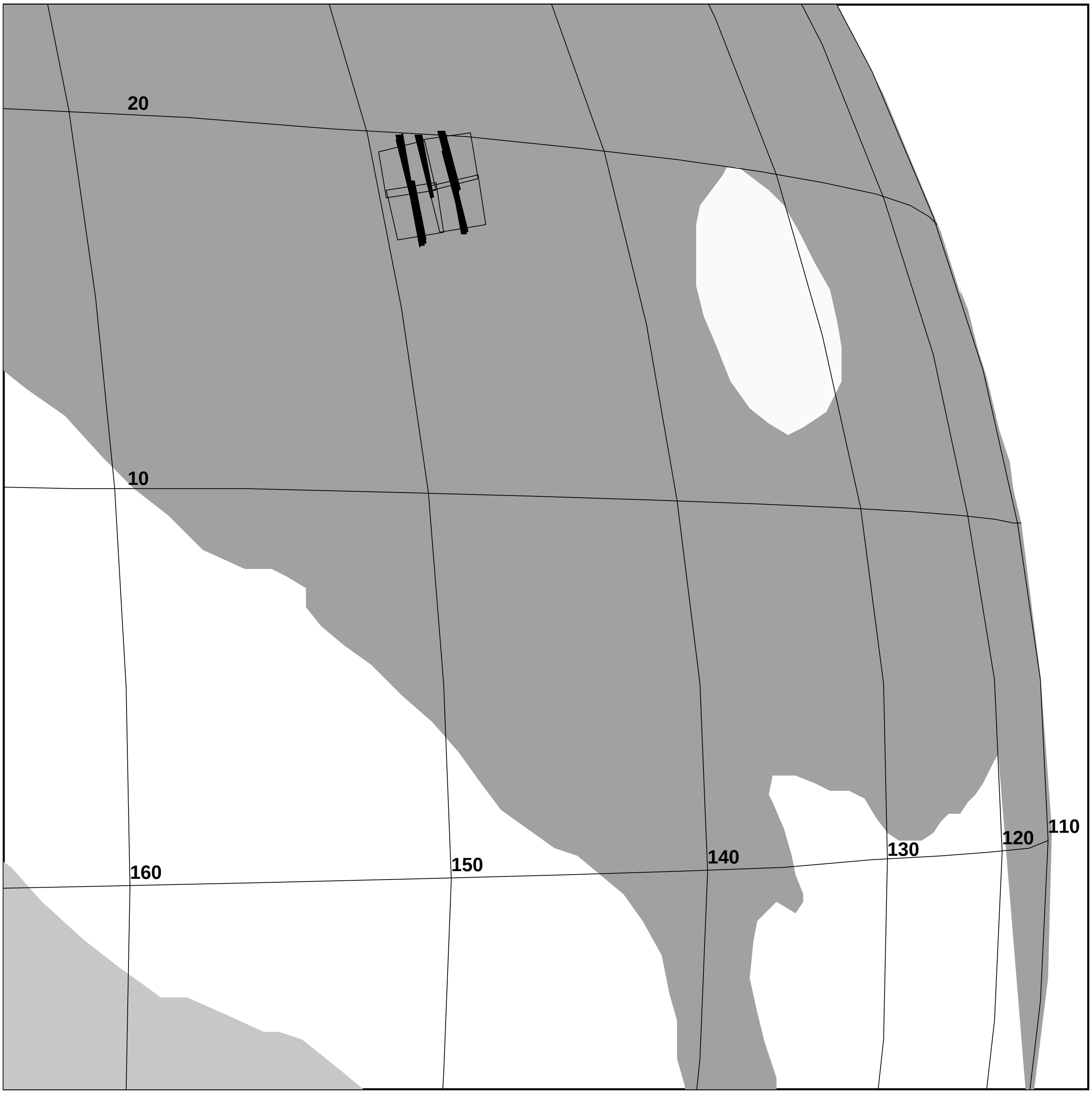
Data Returned

Design Detail

Ride-along with SSI.
NIMS in SM, Gain = 3
Record and playback: 102 wavelengths.

Short Map (SM), Gain 3, Grating Start 0, IM4, G1GSM119, G1GSM102

Galileo Activity Plan Form   05/09/96 18:13:53   rev 6/95



165IN:TT= 0 TMC= 1 C= 3.50 XC= 3.50 BS=13/0449 TC= 1(18.5 147.9)
A= 42 pD= 104 SR=17.450 RA50=260.13 DEC50=-20.78 cone=201.28 clock=101.21
118IN:#SB= 1 Cs= 7.00 XCs= 0.00 TPP= 26 SR= 3.000 RR= 5.000 BM=T RC= 1 BS=16/0449
1:#s= 2 #p= 2 Cr= 0.00 XCr= 7.00

G1GNGREGIO01

DESIGN G1.0 clee : 5/23/1996 7:42: 0

FILE:P.G1GSGREGIO01

TARGET BODY : GANYMEDE

Ride-Along with SSI 2x2

MINI:m.G1GSGREGIO01

S/C EPH:/DATA/NAVIO/T-960110-ALL.NS

PERIAPSIS:

THINNING:NIM 1

START:GTE 96-179/06:29:26.933 -CDS 20:00:0

BODY PLOT TIME:TARGET-TIME D= 104 S= 1.750

OBSERVATION:G1GSGREGIO01

DESCRIP:2x2_mosaic_of_Galileo_Regio

NIMS ride with SSI on Galileo Regio	ACTIVITY ID: G1GNGREGIO01* START TIME: 96-179/06:09:13.600

Activity ID: Orbit G1 Target G Inst N OAPEL GREGIO SeqNo 01 *

Title	NIMS ride with SSI on Galileo Regio			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/27/96	Week	26

Start	GTE-CDS 20:00:0	96-179/06:09:13.600	GTE-000/00:20:13.333
End	GTE-CDS 19:00:0	96-179/06:10:14.267	GTE-000/00:19:12.666
Duration	1:00:0	000/00:01:00.667	000/00:01:00.667

Top Label G1GNGREGIO01*
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	21	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To study Galileo Regio jointly with SSI

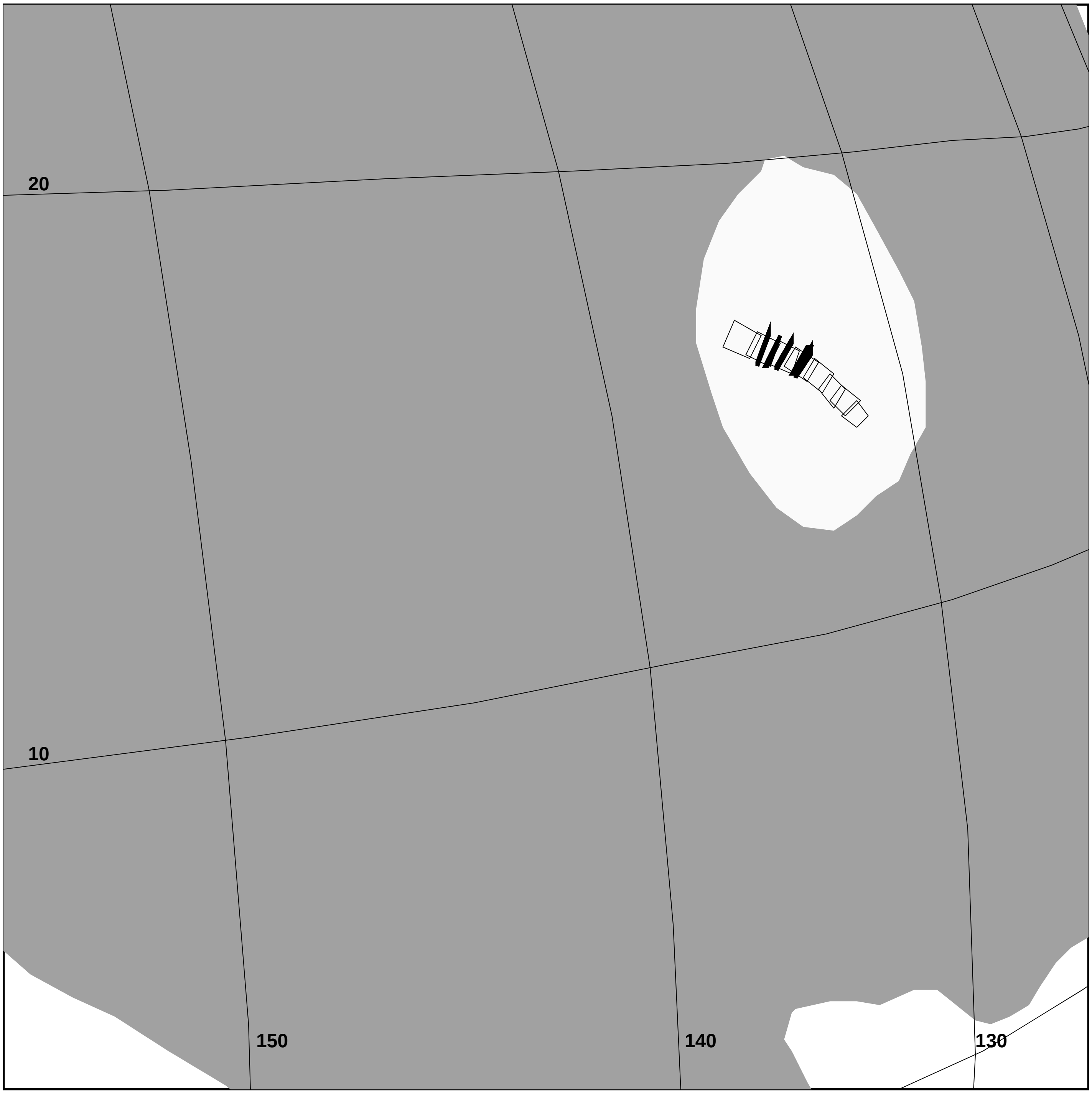
Data Returned

Design Detail

Ride-along with SSI observation.
SM mode (all 102 wavelengths).
Chopper reference,
Gain = 3
Playback selection will have to be from the start of SSI frames
to the end of SSI frames.

Short Map (SM), Gain 3, Grating Start 0, IM4, G1GSM119, G1GSM102

Galileo Activity Plan Form 05/09/96 18:13:53 rev 6/95



165IX:TT= 0 TMC= 1 C= 15.00 XC= 3.00 BS=68/2269 TC= 1(15.6 135.1)
A= 318 pD= 364 SR=17.450 RA50=265.99 DEC50=-31.43 cone=196.12 clock= 67.06
118IX:#SB= 4 Cs= 6.50 XCs= -2.50 TPP= 46 SR= 3.000 RR= 3.000 BM=F RC= 1 BS=71/2269
1:#s= 2 #p= 1 Cr= 0.00 XCr= 0.00
2:#s= 3 #p= 1 Cr= 6.50 XCr= -1.00
3:#s= 2 #p= 1 Cr= 6.50 XCr= -3.00
4:#s= 2 #p= 1 Cr= 6.00 XCr= -5.40

G1GNMEMPHI01

DESIGN G1.0 clee : 5/23/1996 7:43:17

FILE:P.G1GSMEMPHI01

TARGET BODY : GANYMEDE

Ride-Along with SSI

MINI:m.G1GSMEMPHI01

S/C EPH:/DATA/NAVIO/T-960110-ALL.NS

PERIAPSIS:

THINNING:NIM 1

START:GTE 96-179/06:29:26.933 -CDS 10:00:0

BODY PLOT TIME:TARGET-TIME D= 364 S= 1.750

OBSERVATION:G1GSMEMPHI01

DESCRIP:1x8_Memphis_Facula

NIMS ride with SSI on Memphis   ACTIVITY ID: G1GNMEMPHI01*
START TIME: 96-179/06:19:20.267

Activity ID: Orbit G1 Target G Inst N OAPEL MEMPHI SeqNo 01 *

Title	NIMS ride with SSI on Memphis			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System CDS   Load ID G1A   Calendar Date 06/27/96 Week 26

Start	GTE-CDS 10:00:0	96-179/06:19:20.267	GTE-000/00:10:06.666
End	GTE-CDS 7:00:0	96-179/06:22:22.267	GTE-000/00:07:04.666
Duration	3:00:0	000/00:03:02.000	000/00:03:02.000

Top Label G1GNMEMPHI01*
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	21	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To study Memphis crater jointly with SSI.

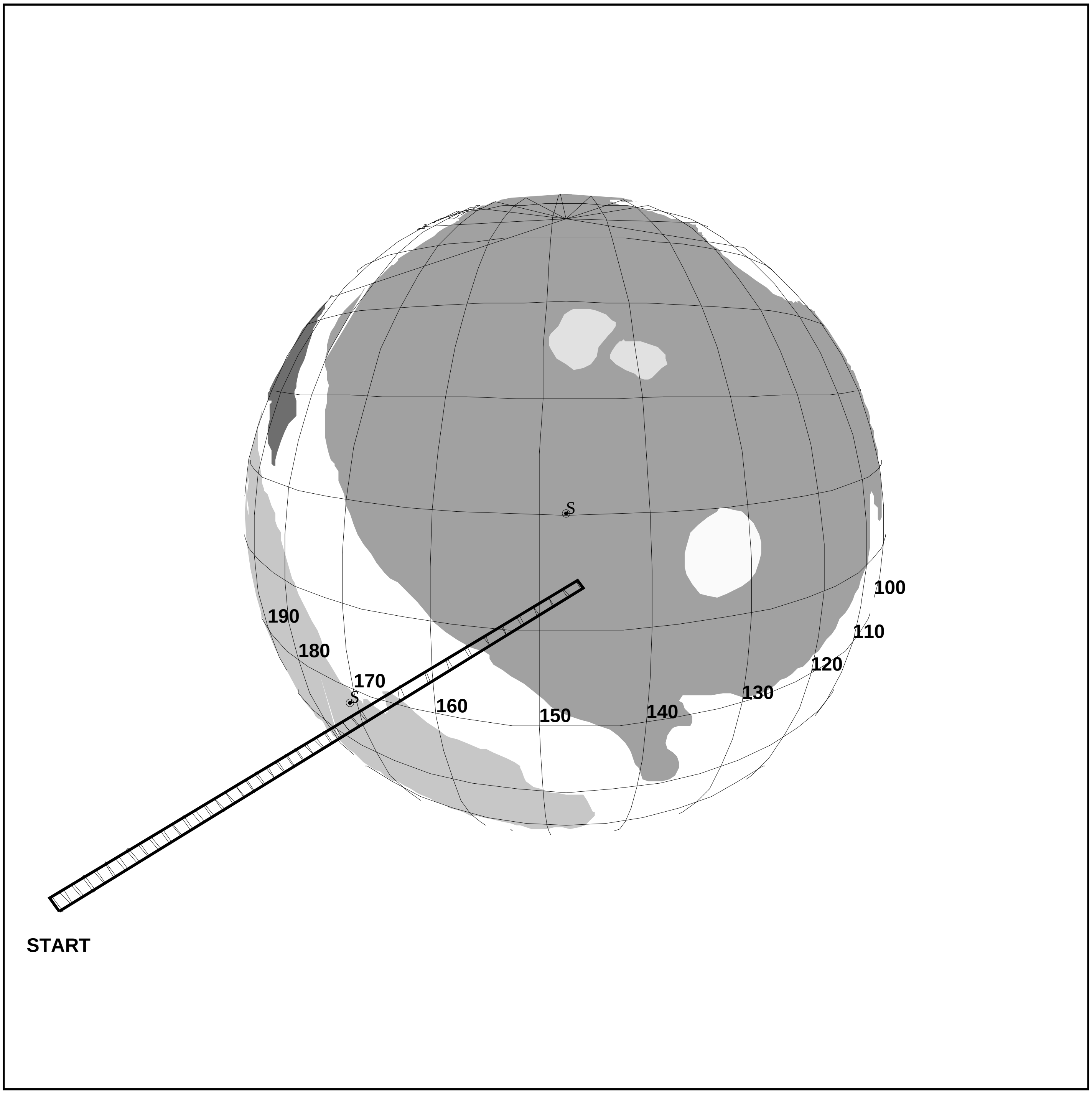
Data Returned

Design Detail

Ride-along with SSI observation.
SM mode (all 102 wavelengths)
Chopper Reference,
Gain = 3
Playback selection will have to be from the start of the SSI frames
to the end of the SSI frames.

Short Map (SM), Gain 3, Grating Start 0, HIS, G1GSM119, G1GSM102

Galileo Activity Plan Form   05/09/96 18:13:53   rev 6/95



165CY:TT= 0 TMC= 1 C=-1033.91 XC= -7.21 BS= 0/3179 TC= 9
A= 350 pD= 0 SR=17.430 RA50= 29.12 DEC50=-32.10 cone= 90.51 clock=310.00

G1GNLIMBSC02

DESIGN G1.0 clee : 5/23/1996 7:29:28

FILE:P.G1GUBRTLMB02

TARGET BODY : GANYMEDE | **Ride-Along with UVS**

MINI:m.G1GUBRTLMB02

S/C EPH:/DATA/NAVIO/T-960110-ALL.NS

PERIAPSIS: | **THINNING:NIM 13**

START:GTE 96-179/06:29:26.933 -CDS 05:00:0 | **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:G1GUBRTLMB02 | **DESCRIP:G1 OH Bright Limb Drift**

Limb Scan for atmosphere	ACTIVITY ID: G1GNLIMBSC02* START TIME: 96-179/06:22:22.267

Activity ID: Orbit G1 Target G Inst N OAPEL LIMBSC SeqNo 02 *

Title	Limb Scan for atmosphere			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/27/96	Week	26

Start	GTE-CDS 7:00:0	96-179/06:22:22.267	GTE-000/00:07:04.666
End	GTE-CDS 2:00:0	96-179/06:27:25.600	GTE-000/00:02:01.333
Duration	5:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G1GNLIMBSC02*
Bottom Label ride

Plot Key	NIMS	Type	SCI		
CDS Bytes	52	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To search for atmosphere that might be on Ganymede.
Joint observation with UVS.

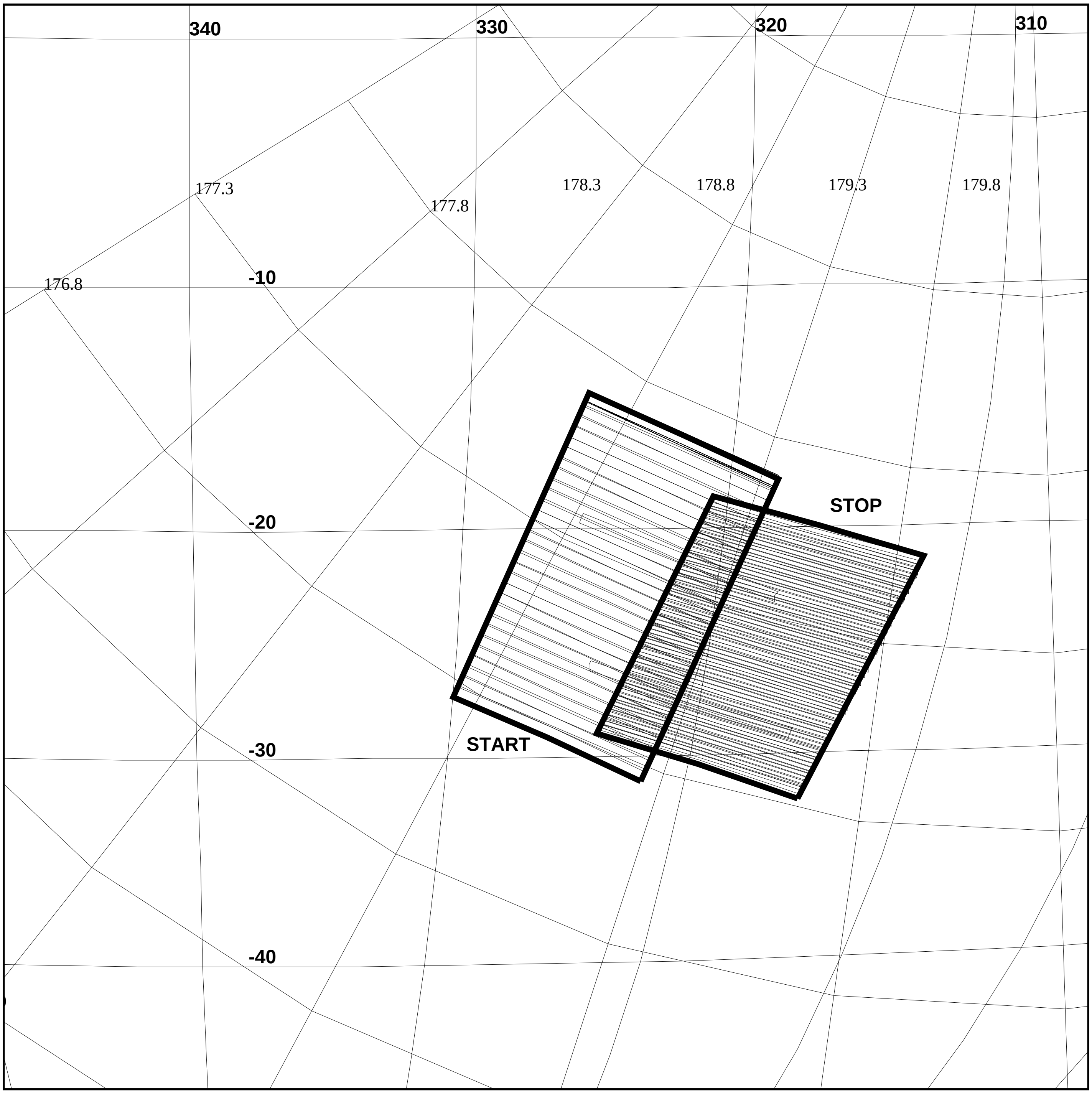
Data Returned

Design Detail

Target to the satellite and offset to sky and drift onto satellite.
Joint observation with UVS.
Return wavelengths: Grating position 1 and detectors 3, 4, and 5.
NIMS Mode: XS (Fixed Spectrometer); Gain: 4
Chopper: Reference; Grating start position: 1
Grating offset: 4 # wavelengths: 17 recorded
Record format: MPW

Fixed Spectrometer (XS), Gain 4, Grating Start 1, MPW, G1GXS17, G1GXS17

Galileo Activity Plan Form 05/09/96 18:13:53 rev 6/95



165DW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6505 TC= 1(-29 326)
A= 728 pD= 2100 SR=17.430 RA50=284.66 DEC50=-27.78 cone=176.76 clock=333.96
117DW:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/6505
1:#s= 2 Cs= 16.00 XCs= 0.00 Cr= -14.00 XCr= 7.00 sD= 1020 rD= 60

G1JNGRS00501

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS00501

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:JTE 96-180/00:31:20.266 -CDS 782:00:0

BODY PLOT TIME:START-TIME D= 2100 S= 2.800

OBSERVATION:G1JNGRS00501

DESCRIP:GRS PHASE 5 #1

GRS 5 Phase #1	ACTIVITY ID: G1JNGRS00501- START TIME: 96-179/11:16:36.266

Activity ID: Orbit G1 Target J Inst N OAPEL GRS005 SeqNo 01 -

Title	GRS 5 Phase #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	G1A	Calendar Date	06/27/96	Week	26

Start	JTE-CDS 786:00:0	96-179/11:16:36.266	JTE-000/13:14:44.000
End	JTE-CDS 770:16:0	96-179/11:32:36.266	JTE-000/12:58:44.000
Duration	15:75:0	000/00:16:00.000	000/00:16:00.000

Top Label G1JNGRS0501-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

5 degree phase observation of Great Red Spot (GRS) near central meridian. This is the only observation acquired on this rotation, GRS assumed located at 321 degrees west longitude (System III), 23 degrees south latitude. 4 colors recorded using wavelength table JFT04A.

Data Returned

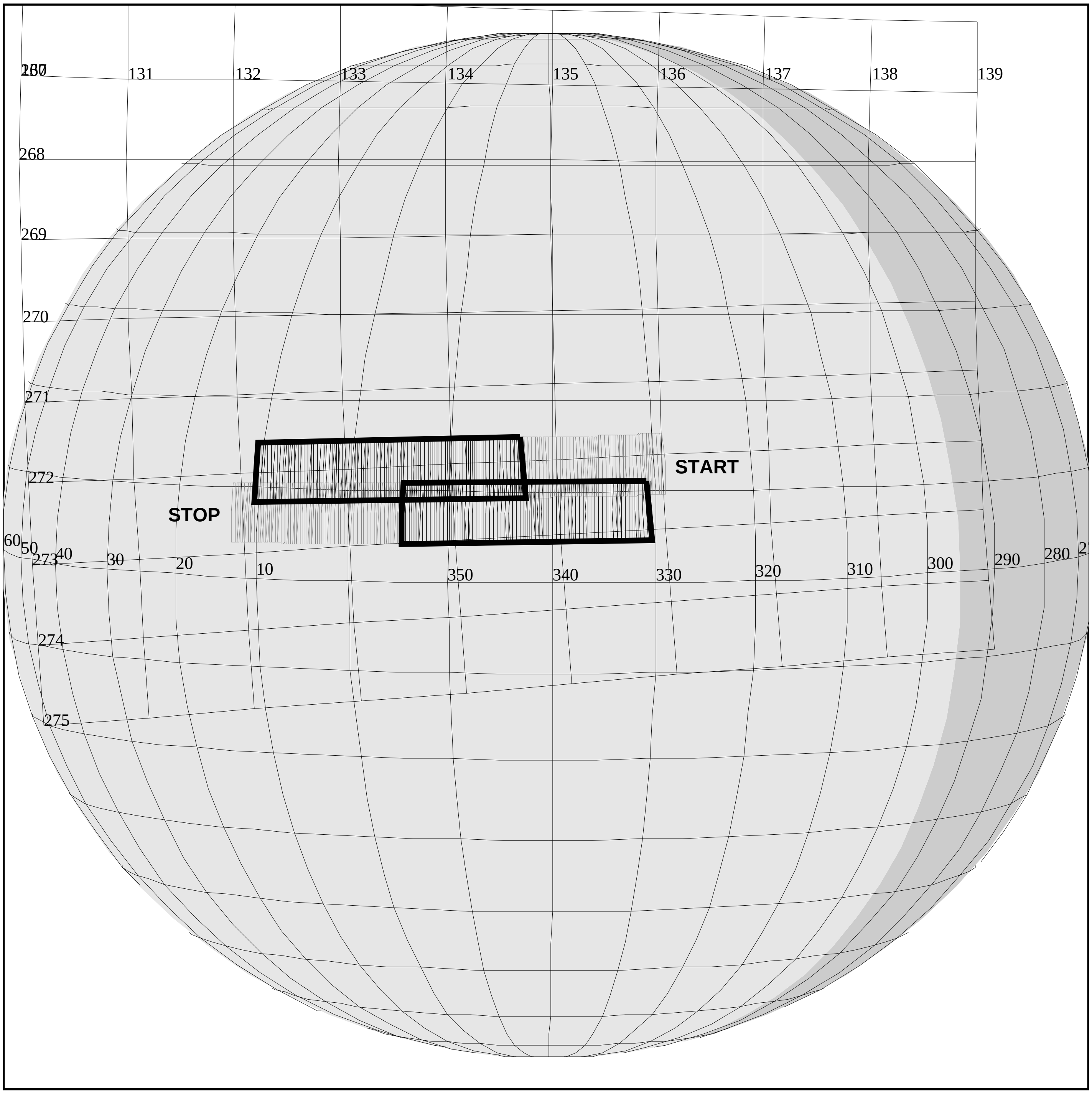
Design Detail

2*3 (~18 mrads N/S by ~30 mrads E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. 4 minutes reserved for targetting. Record duration: 720 seconds, accumulating 0.1839 MBTG in 4 colors and using 0.0242 tracks.
Note: Observation acquired near cone pole.

Cone: 177 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68A, G1JFT19C

Galileo Activity Plan Form 05/09/96 18:13:54 rev 6/95



165DB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7171 TC= 1(13 329)
A= 728 pD= 0 SR=17.450 RA50=329.08 DEC50=-16.21 cone=136.01 clock=272.13
117DB:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/7171
1:#s= 2 Cs= -83.80 XCs= 0.00 Cr= 65.00 XCr= 8.00 sD= 6318 rD= 42

G1JNHOTMAP01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNHOTMAP01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 -CDS 119:00:0

OBSERVATION:G1JNHOTMAP01

THINNING:NIM 2

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

DESCRIP:Mapping of hotspot/PES region

HOTMAP	ACTIVITY ID:	G1JNHOTMAP01-
	START TIME:	96-179/22:26:58.266

Activity ID: Orbit G1 Target J Inst N OAPEL HOTMAP SeqNo 01 -

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

Time System	CDS	Load ID	G1A	Calendar Date	06/27/96	Week	26

Start	JEE-CDS 123:00:0	96-179/22:26:58.266	JEE-000/02:04:22.000
End	JEE-CDS 42:00:0	96-179/23:48:52.266	JEE-000/00:42:28.000
Duration	81:00:0	000/01:21:54.000	000/01:21:54.000

Top Label	G1JNHOTMAP01-
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

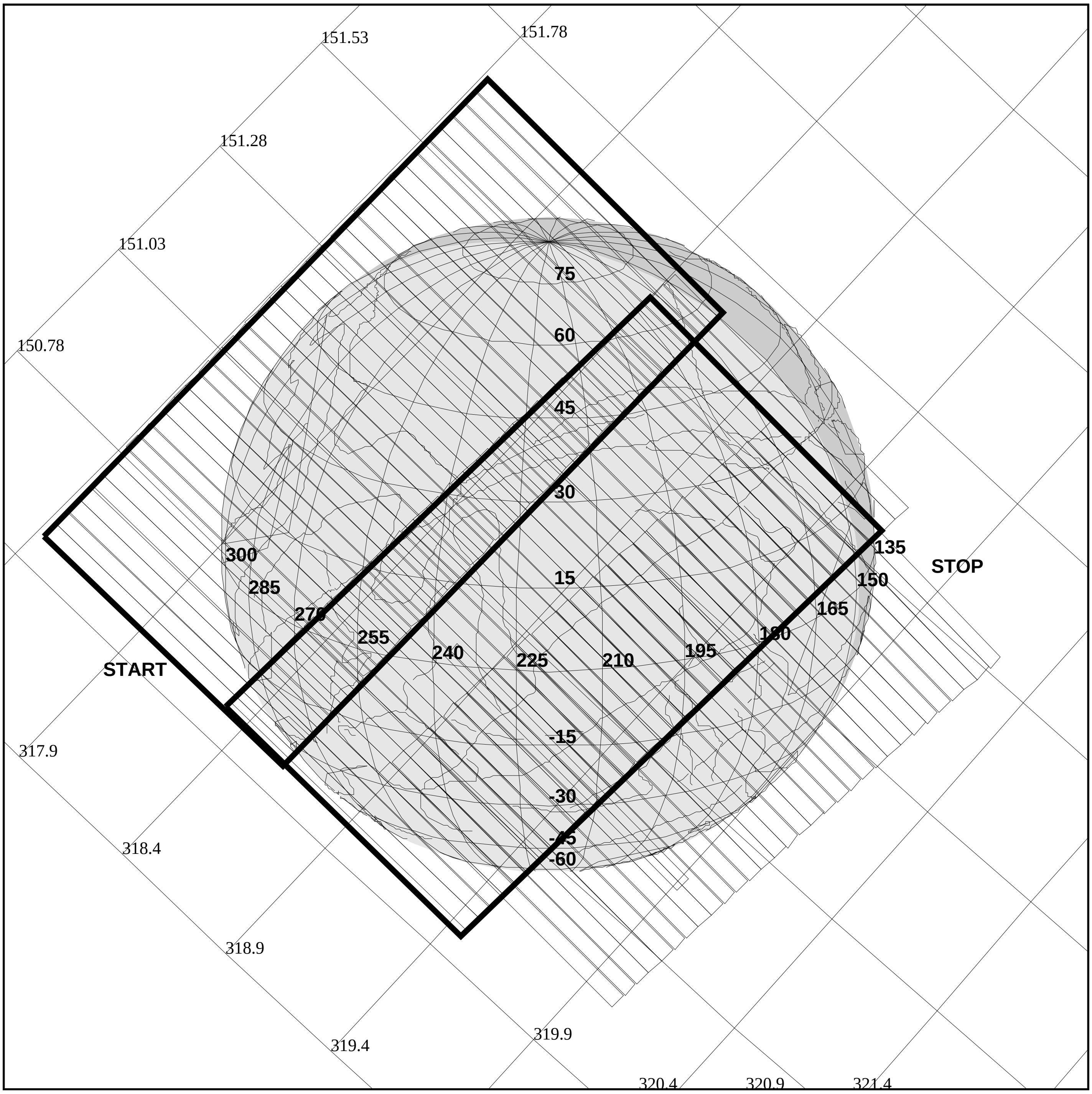
Longmap mapping of hotspot/PES region at high spatial resolution. Observation uses special wavelength table JHT204A (i.e., 80 wavelengths of thermal from 4.2 to 5.2 um plus 124 wavelengths sampling reflected sunlight).

Data UnGarbled, Data Returned

Design Detail

Longmap, Nyquist sampled mapping of hotspot/PES region. Two tiers acquired, centered on the central meridian near 8.5 degrees North latitude. Southern tier is centered at 7 degrees north latitude. Northern tier overlaps southern tier by 20% (2 mrads). Each tier extends 105 mrads, i.e., 210 NIMS footprints, or 360 NIMS samples at Nyquist sampling*. Each tier takes 420*8.666 = 3640 secs = 1:00:40. Reposition slew takes 30 secs. Total time: 2:01:50, during which 0.245 tracks are used, accumulating 23.347 MBTG in 204 colors. Spacecraft distance ~0.74 million Km. NIMS IFOV 370 Km. Each tier covers 77700*7400 Km. Map covers 77700*13320 Km. Mean phase angle about 55 degrees. 3.50 rims reserved for targetting.
*NOTE changes made on April 18, 1996 to save tape: Recording of top tier is now shortened to ~140 footprints. Total time is now 00:54:36, during which 0.1103 tracks are used, accumulating 9.356 MBTG in 238 colors.   Cone: 130 to 135 degrees.
Long Map (LM), Gain 2, Grating Start 0, LPU, G1JHT238A, G1JHT238A

Galileo Activity Plan Form   05/09/96 18:13:54   rev 6/95



165EC:TT= 0 TMC= 1 C= -10.20 XC= -6.20 BS= 0/3369 TC= 3
A= 728 pD= 5424 SR=17.450 RA50=311.66 DEC50=-42.50 cone=150.55 clock=318.03
117EC:#SB= 2 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3369
1:#s= 2 Cs= 18.80 XCs= 0.00 Cr= -18.50 XCr= 7.70 sD= 1886 rD= 28
2:#s= 1 Cs= 16.00 XCs= 0.00 Cr= -17.30 XCr= 4.60 sD= 1606 rD= 18

G1ENNHILAT01

DESIGN G1.0 brad : 6/12/1996 7:46:26

FILE:P.G1ENNHILAT01

TARGET BODY : EUROPA

MINI:m.G1ENNHILAT01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:EEE 96-180/01:21:53.600 -CDS 80:00:0

OBSERVATION:G1ENNHILAT01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 5424 S= 0.600

DESCRIP:G1 Europa High No. Latitude

EUROPA NORTH HIGH LATITUDE COVERAGE		ACTIVITY ID:	G1ENNHILAT01-
		START TIME:	96-179/23:56:57.600

Activity ID: Orbit G1 Target E Inst N OAPEL NHILAT SeqNo 01 -

Title	EUROPA NORTH HIGH LATITUDE COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS   Load ID G1A   Calendar Date 06/28/96 Week 26

Start	EEE-CDS 84:00:0	96-179/23:56:57.600	EEE-000/01:24:56.000
End	EEE+CDS 49:23:0	96-180/00:32:05.600	EEE+000/00:49:48.000
Duration	34:68:0	000/00:35:08.000	000/00:35:08.000

Top Label   G1ENNHILAT01-
Bottom Label EUROPA NO HI

Plot Key	NIMS	Type	SCI		
CDS Bytes	227	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS coverage of Northern high latitude region, poorly covered by Voyager. Done at 77 km/nimsel resolution. This north polar global observation is the first of only two orbits for northern latitude Europa coverage. It allows medium resolution mapping for target definition for E11. This observation has been planned to cover areas observed by SSI in G1.

Data UnGarbled, Data Returned

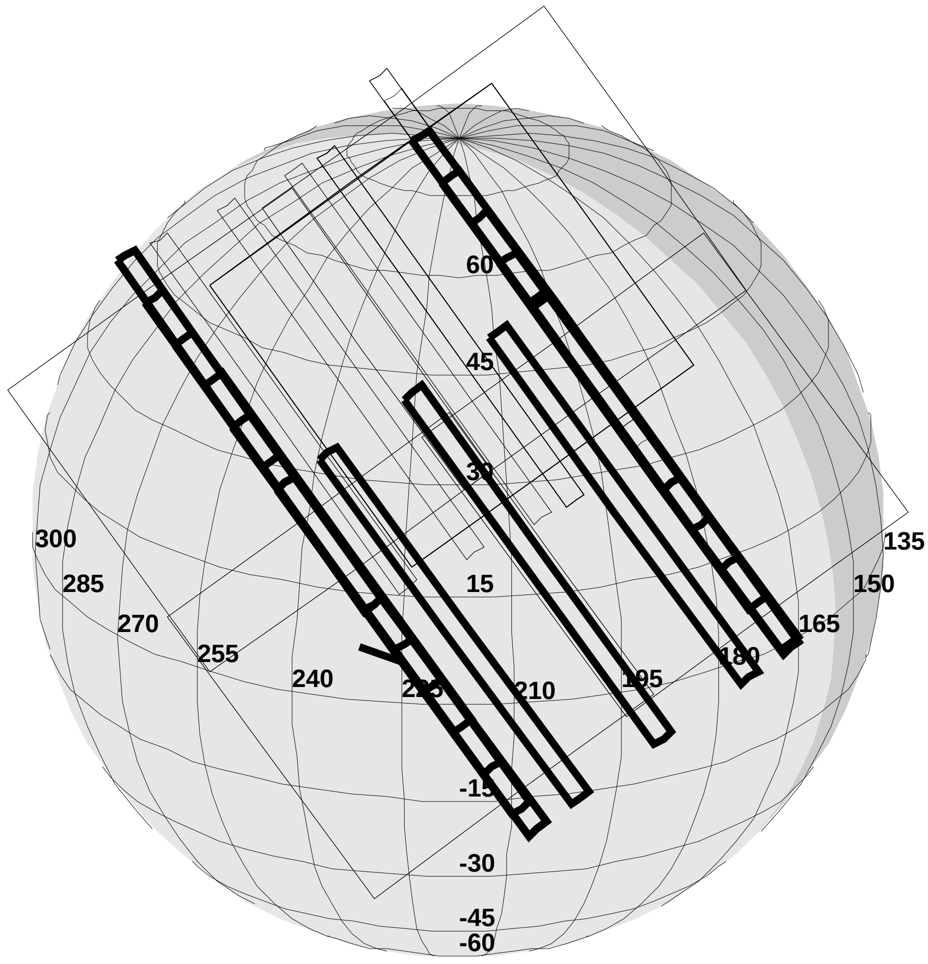
Design Detail

DISTANCE: 154827 KM	MODE: LONG MAP	LONG.COV. 170-300 DEG
PHASE: 28.44 DEG	SLEW RATE: 30 MR/S	LAT.COV. 90 TO -45 DEG
CONE: 151.45 DEG	% OVERLAP: 10	COVERAGE 95%
WAVELENGTHS: 228	RECORDED NUM. OF STRIPS: 3	SUB S/C LONG 236.1 DEG
WAVELENGTHS P/B: 228	RESOLUTION: 77 KM/NIMSEL	NIMS F.O.V./STRIP: 73
SUB S/C LAT 20.43 DEG	BOOMS: NOT IN F.O.V.	DMS MODE: 7.68
ASD: 0.4840 DEG	AREA COV. IN PIX: 861	GAIN STATE:3,2,3
INCIDENT RANGE: 24-114	EMISSION RANGE: 25-90 DEG	

First Swath in Gain State 3
Second Swath in Gain State 2
Third Swath in Gain State 3 (Not Returned)

Long Map (LM), Gain 3,2,3, Grating Start 0, LPU, G1ELM245, G1ELM228

Galileo Activity Plan Form   05/09/96 18:13:54 rev 6/95



165IR:TT= 0 TMC= 1 C= 4.70 XC= -4.75 BS= 0/1751 TC= 3
A= 182 pD= 260 SR=17.450 RA50=321.79 DEC50=-40.45 cone=144.12 clock=309.61
118IR:#SB= 1 Cs= 0.00 XCs= 6.50 TPP= 26 SR= 3.000 RR= 6.000 BM=T RC= 1 BS= 3/1751
1:#s= 2 #p= 2 Cr= -7.30 XCr= 0.00
116IR:OR= 5.000 Cs= 5.25 XCs= 0.75 sD= 16 BS=42/1751 TF=N

G1ENGLOBAL01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1ESGLOBAL01

TARGET BODY : EUROPA

Ride-Along with SSI

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 96-180/01:21:53.600 +CDS 21:00:0

BODY PLOT TIME:TARGET-TIME D= 260 S= 0.600

OBSERVATION:G1ESGLOBAL01

DESCRIP:Eruopa_2x2_global_1x1_color

Europa coordinated science NIMS/SSI		ACTIVITY ID:	G1ENGLOBAL01*
		START TIME:	96-180/01:42:06.933

Activity ID: Orbit G1 Target E Inst N OAPEL GLOBAL SeqNo 01 *

Title	Europa coordinated science NIMS/SSI			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/28/96 Week 26

Start	EEE+CDS	20:00:0	96-180/01:42:06.933	EEE+000/00:20:13.333
End	EEE+CDS	33:00:0	96-180/01:55:15.600	EEE+000/00:33:22.000
Duration		13:00:0	000/00:13:08.667	000/00:13:08.667

Top Label G1ENGLOBAL01*
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	55	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation intends to obtain NIMS data (Fixed Map, 17 wavelengths) as SSI mosaics of Europa North pole (clear, violet, green and 1 micron SSI filters), northern hemisphere and preview of a linea region of Europa (longitude = 255 to 280 degrees, latitude = 30 to -5 degrees) that will be covered in greater detail in the sixth orbit (E6). The observation will provide 17 wavelengths of NIMS spectra with each of the 37 SSI frames, producing an excellent data set for Europa compositional analysis.

Data UnGarbled, Data Returned

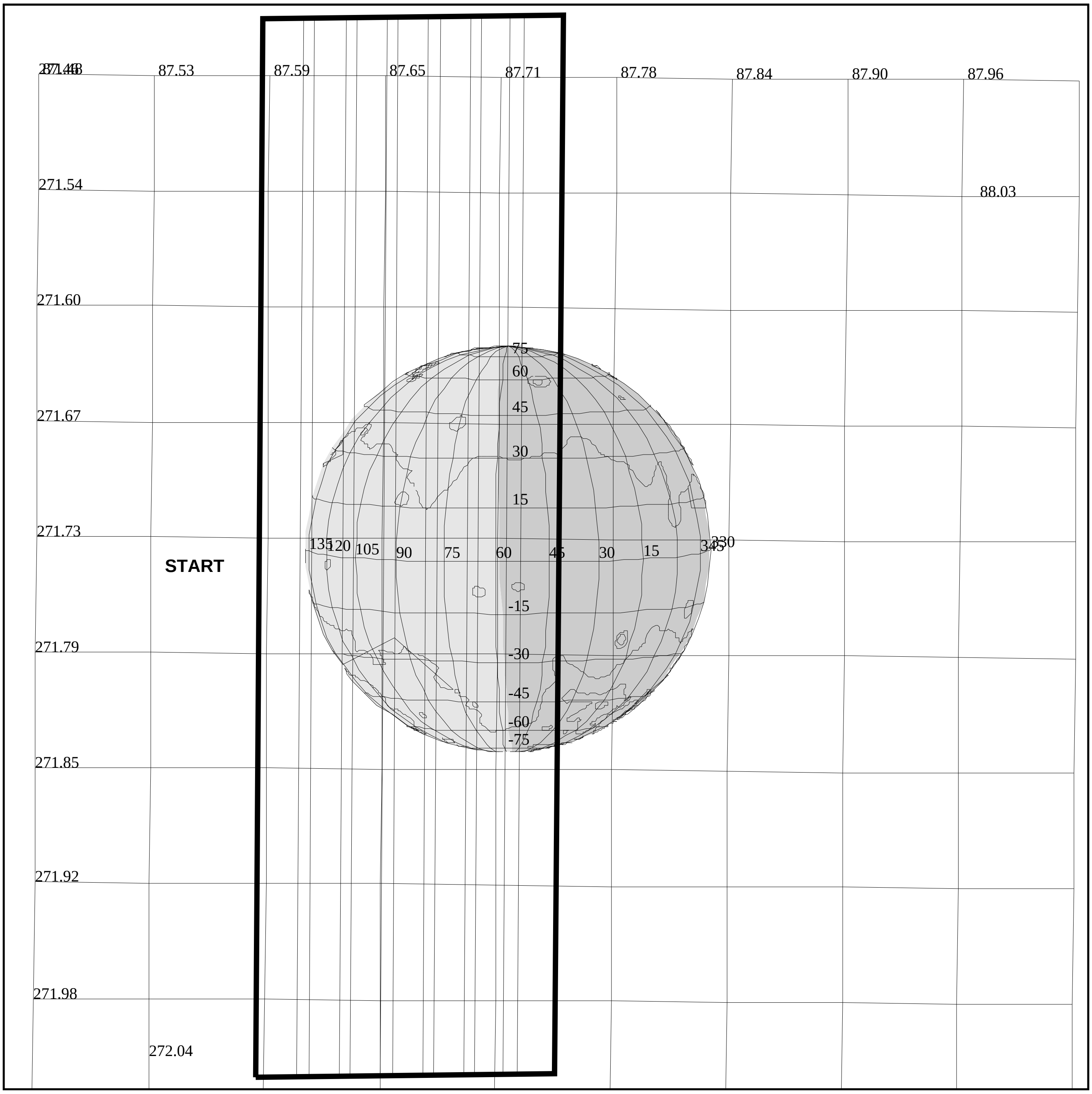
Design Detail

NIMS mode: XM,	Number of wavelengths recorded: 17
Gain state: 2	Number of wavelengths P/B: 17
NIMS resolution: 77 Km/nimsel,	Telemetry format: HCA
Phase angle: 36 degrees,	latitude range: 90 to -10 degrees

Longitude range: 160 to 280 degrees
Add NIMSTAB 37IOP to change to XM at 180/01:24:52.600
DESELECT at 180/01:35:02.666

Fixed Map (XM), Gain 2, Grating Start 0, HCA, G1EXM17, G1EXM17

Galileo Activity Plan Form 05/09/96 18:13:54 rev 6/95



165EA:TT= 0 TMC= 1 C= -2.30 XC= 0.00 BS= 0/7585 TC= 9
A= 364 pD= 0 SR=17.430 RA50= 13.87 DEC50= 3.42 cone= 87.59 clock=271.74
117EA:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7585
1:#s= 1 Cs= 1.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 180 rD= 2

G1INCHEMIS01

DESIGN G1.0 brad : 6/12/1996 7:50:53

FILE:P.G1INCHEMIS01

TARGET BODY : IO

MINI:m.G1INCHEMIS01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-180/18:27:09.533 -CDS 906:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

OBSERVATION:G1INCHEMIS01

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: G1INCHEMIS01-
	START TIME: 96-180/03:09:04.200

Activity ID: Orbit G1 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 G1A Calendar Date 06/28/96 Week 26

Start	IEE-CDS 908:00:0	96-180/03:09:04.200	IEE-000/15:18:05.333
End	IEE-CDS 903:88:0	96-180/03:13:08.867	IEE-000/15:14:00.666
Duration	4:03:0	000/00:04:04.667	000/00:04:04.667

Top Label G1INCHEMIS01-
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

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 UnGarbled, Data Returned

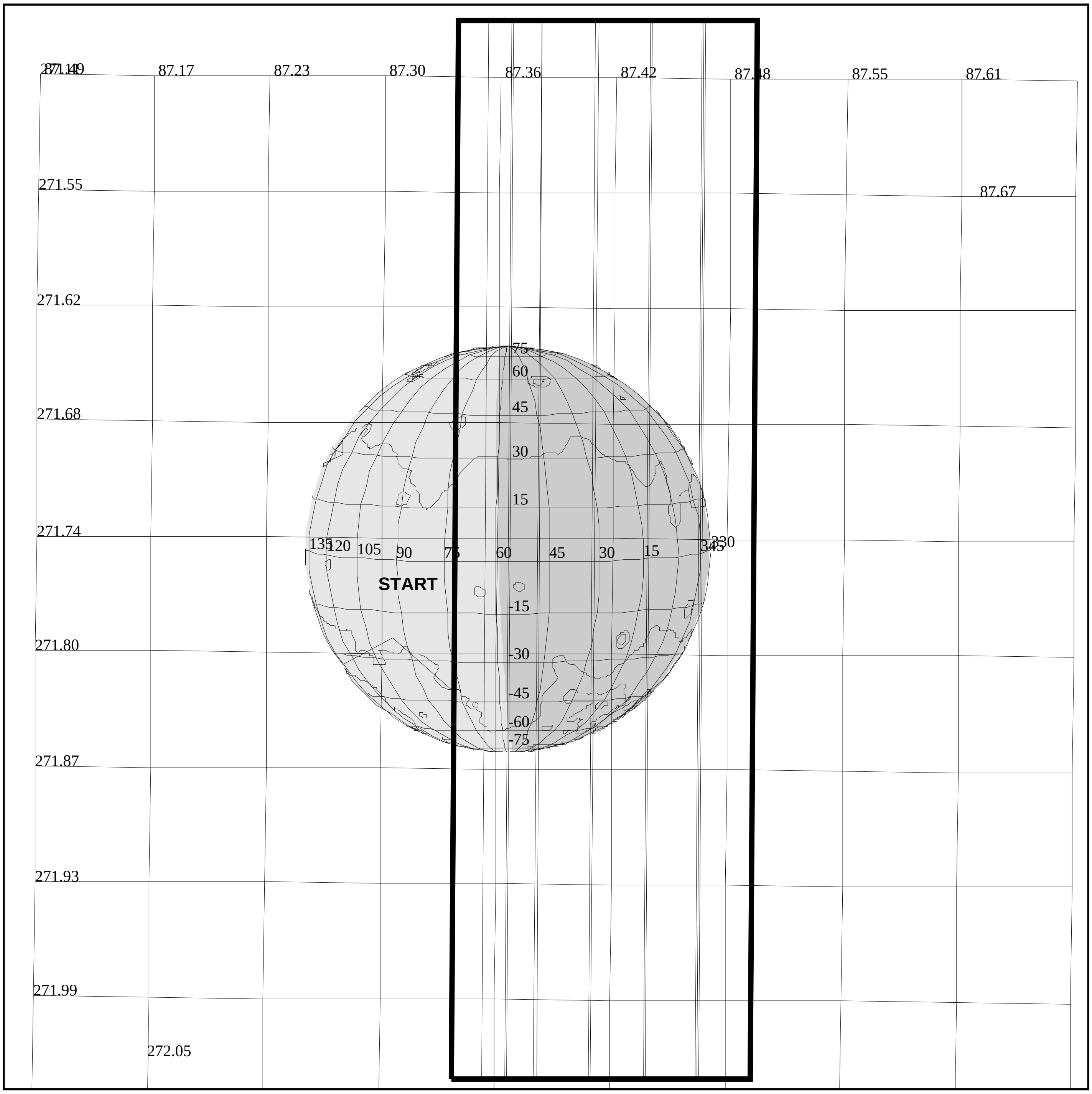
Design Detail

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

Cone: 87 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM228

Galileo Activity Plan Form 05/09/96 18:13:54 rev 6/95



165EB:TT= 0 TMC= 1 C= -0.25 XC= 0.00 BS= 0/8313 TC= 9
A= 108 pD= 0 SR=17.430 RA50= 14.09 DEC50= 3.51 cone= 87.35 clock=271.75
117EB:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/8313
1:#s= 1 Cs= 2.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 20 rD= 2

G1INTHRMAL01

DESIGN G1.0 brad : 6/12/1996 8:26:56

FILE:P.G1INTHRMAL01

TARGET BODY : IO

MINI:m.G1INTHRMAL01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 902:00:0

OBSERVATION:G1INTHRMAL01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO’S NIGHTSIDE	**ACTIVITY ID: G1INTHRMAL01-** **START TIME: 96-180/03:14:07.533**

Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 01 -

Title	MONITORING OF IO’S NIGHTSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/28/96	Week	26

Start	IEE-CDS 903:00:0	96-180/03:14:07.533	IEE-000/15:13:02.000
End	IEE-CDS 900:55:0	96-180/03:16:32.867	IEE-000/15:10:36.666
Duration	2:36:0	000/00:02:25.334	000/00:02:25.334

Top Label   G1INTHERMAL01-
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

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 UnGarbled, Data Returned

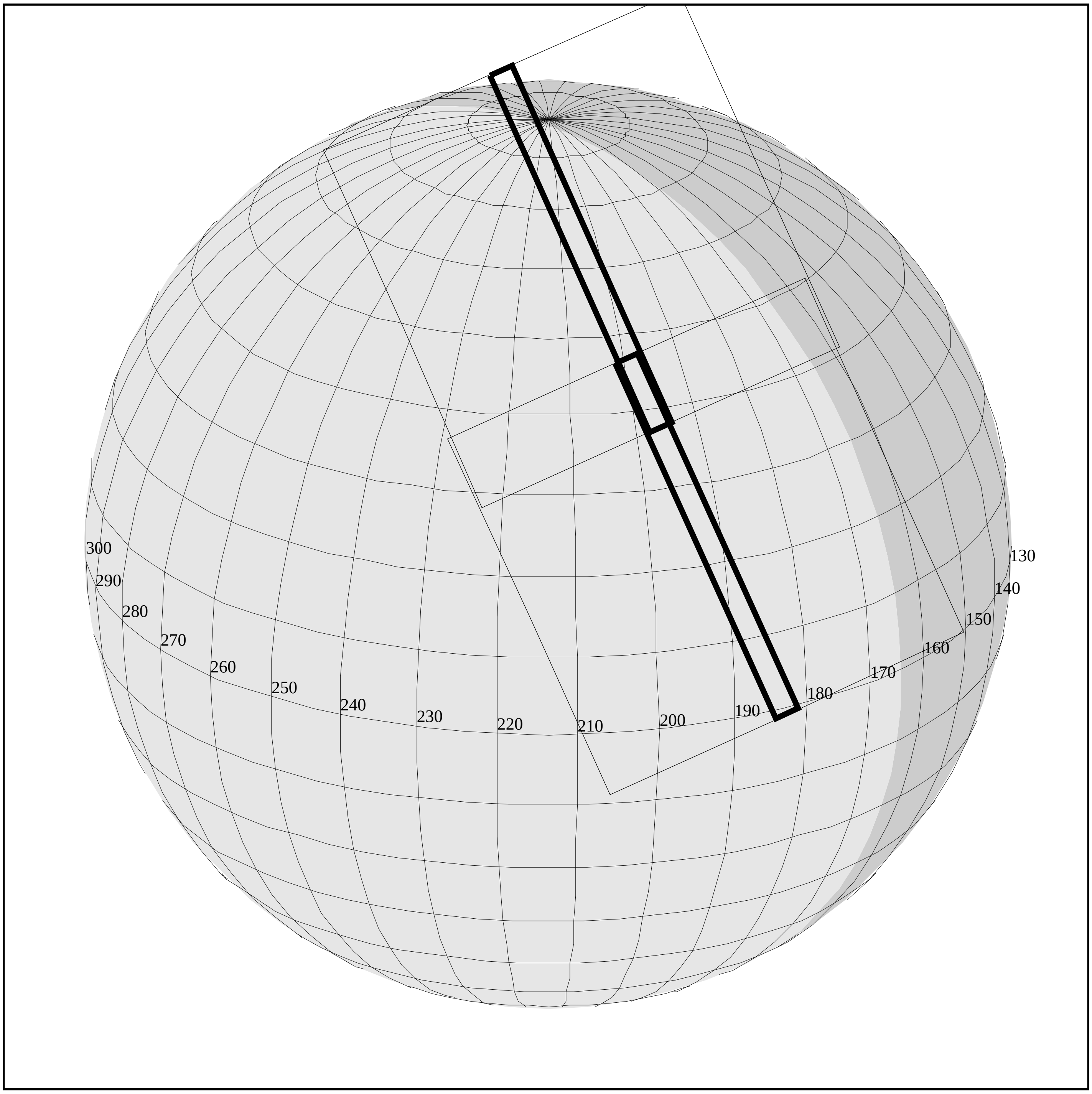
Design Detail

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: Fixed Map,
Number of Wavelengths: 10,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Cone: 87 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form   05/09/96 18:13:54   rev 6/95



165IW:TT= 0 TMC= 1 C= 3.10 XC= -5.35 BS= 0/3955 TC= 3
A= 728 pD= 182 SR=17.450 RA50=335.11 DEC50=-35.91 cone=134.16 clock=301.08
118IW:#SB= 1 Cs= -0.25 XCs= 6.40 TPP= 26 SR= 3.000 RR= 8.000 BM=F RC= 1 BS= 3/3955
1:#s= 2 #p= 1 Cr= 0.00 XCr= 0.00

G1ENEUTERM01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1ESEUTERM01

TARGET BODY : EUROPA **Ride-Along with SSI**

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: **THINNING:NONE**

START:EEE 96-180/01:21:53.600 +CDS 143:00:0 **BODY PLOT TIME:CENTER-TIME D= 182 S= 0.850**

OBSERVATION:G1ESEUTERM01 **DESCRIP:1x2_Europa_terminator_clr_filter**

Europa coordinated science NIMS/SSI		ACTIVITY ID:	G1ENEUTERM01*
		START TIME:	96-180/03:42:26.266

Activity ID: Orbit G1 Target E Inst N OAPEL EUTERM SeqNo 01 *

Title	Europa coordinated science NIMS/SSI		Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/28/96	Week	26

Start	EEE+CDS	139:00:0	96-180/03:42:26.266	EEE+000/02:20:32.666
End	EEE+CDS	145:00:0	96-180/03:48:30.266	EEE+000/02:26:36.666
Duration		6:00:0	000/00:13:08.667	000/00:06:04.000

Top Label	G1ENEUTERM01*
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	181	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation intends to obtain NIMS data (Fixed Map, 10 wavelengths) as SSI mosaics of Europa along the terminator.

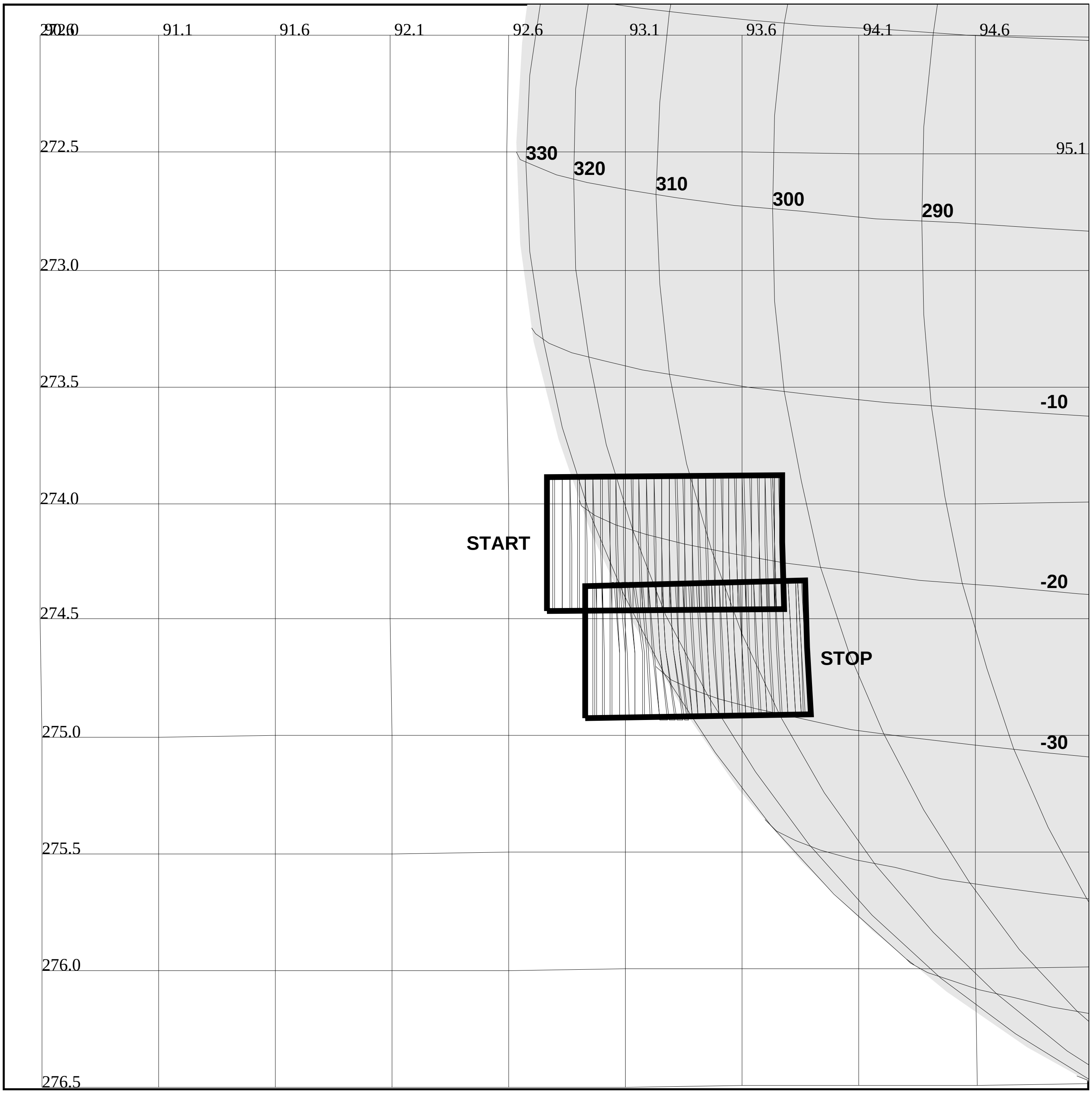
Data UnGarbled, Data Returned

Design Detail

NIMS mode: XM,	Number of wavelengths recorded: 17
Gain state: 2	Number of wavelengths P/B: 10
NIMS resolution:	Telemetry format: IM4

Fixed Map (XM), Gain 2, Grating Start 21, IM4, G1EXM10, G1EXM10

Galileo Activity Plan Form   05/09/96 18:13:54   rev 6/95



165ED:TT= 0 TMC= 1 C= 0.00 XC= 3.00 BS= 0/9445 TC= 2(92.8 274)
A= 728 pD= 0 SR=17.430 RA50= 10.17 DEC50= -0.99 cone= 92.80 clock=274.17
117ED:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9445
1:#s= 2 Cs= 15.50 XCs= 0.00 Cr= -15.50 XCr= 8.00 sD= 462 rD= 30

G1JNGRS09101

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS09101

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 388:00:0

OBSERVATION:G1JNGRS09101

THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 0 S= 2.100

DESCRIP:GRS PHASE 91 #1

GRS 91 Phase #1		ACTIVITY ID:	G1JNGRS09101-
		START TIME:	96-180/06:59:36.266

Activity ID: Orbit G1 Target J Inst N OAPEL GRS091 SeqNo 01 -

Title	GRS 91 Phase #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/28/96 Week 26

Start	JEE+CDS 384:00:0	96-180/06:59:36.266	JEE+000/06:28:16.000
End	JEE+CDS 394:89:0	96-180/07:10:42.266	JEE+000/06:39:22.000
Duration	10:89:0	000/00:11:06.000	000/00:11:06.000

Top Label G1JNGRS09101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

91 degrees phase observation of GRS near bright limb. First of 2 observations (besides GRSSUB, GRS5UM and GRS3UM observations) acquired on this rotation. 4 colors obtained using table JFT04A.

Data UnGarbled, Data Returned

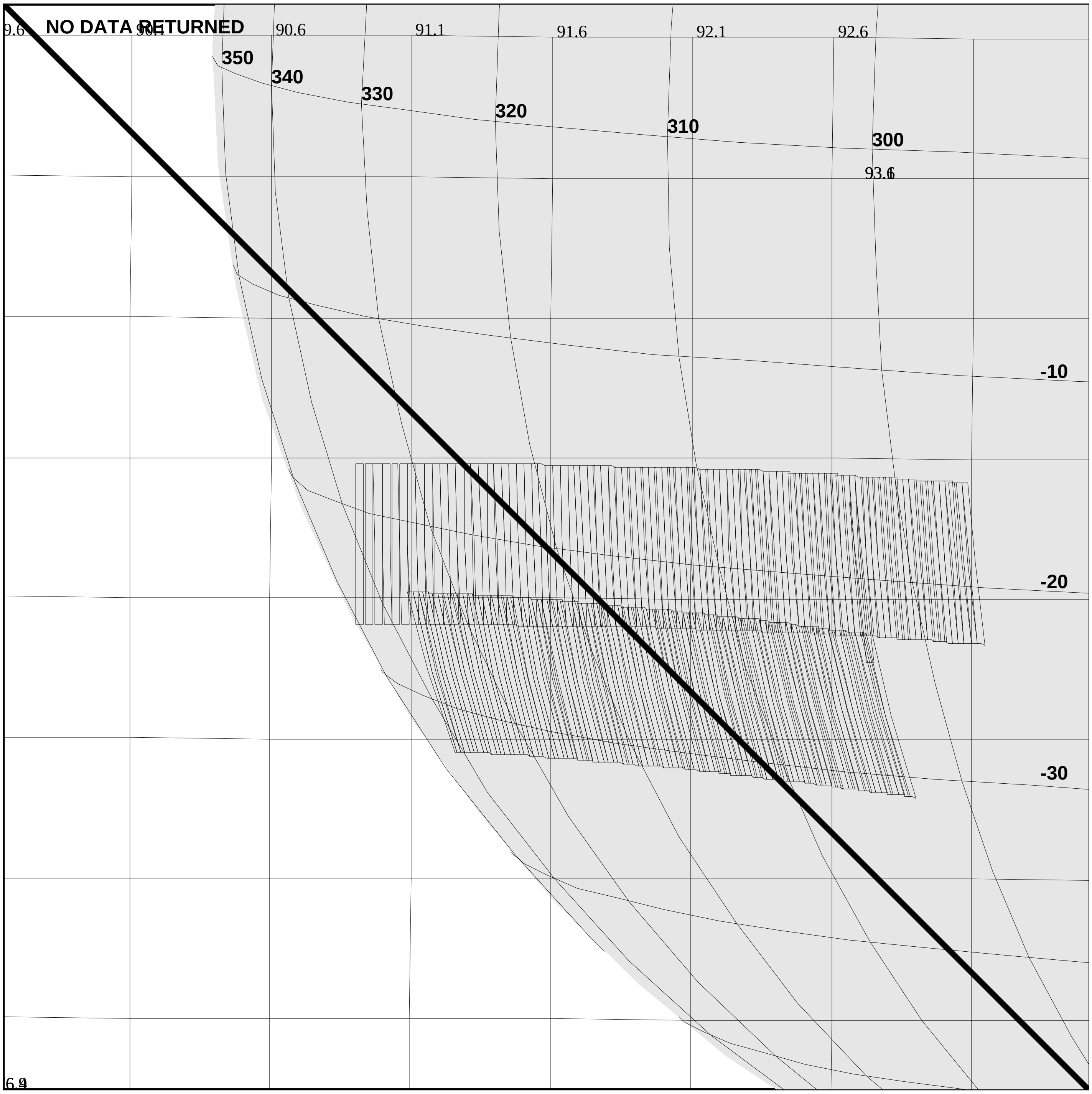
Design Detail

Approximately 2*2 (~18 mrads N/S by ~20 mrads E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 424.666 seconds, accumulating 0.1085 MBTG in 4 colors using 0.01423 tracks.

Cone: 93 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68A, G1JFT68A

Galileo Activity Plan Form 05/09/96 18:13:54 rev 6/95



165EF:TT=   0 TMC= 1 C=   0.00 XC=   0.00 BS= 0/5633 TC= 1(-22   340   )
A= 364 pD= 9504 SR=17.430 RA50= 11.87 DEC50= -0.24 cone= 90.94 clock=274.21
117EF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5633
1:#s= 2 Cs=   47.00 XCs=   0.00 Cr= -45.00 XCr=   8.00 sD= 4740 rD=   24

G1JNGRSSUB01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRSSUB01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: **THINNING:NIM   2**

START:JEE 96-180/00:31:20.266   +CDS 422:00:0 **BODY PLOT TIME:START-TIME D= 9504 S= 2.500**

OBSERVATION:G1JNGRSSUB01 **DESCRIP:GRS CFSUB NIMS LM**

GRS CFSUB	ACTIVITY ID: G1JNGRSSUB01- START TIME: 96-180/07:36:00.266

Activity ID: Orbit G1 Target J Inst N OAPEL GRSSUB SeqNo 01 -

Title	GRS CFSUB			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/28/96 Week 26

Start	JEE+CDS 420:00:0	96-180/07:36:00.266	JEE+000/07:04:40.000
End	JEE+CDS 474:37:0	96-180/08:31:00.932	JEE+000/07:59:40.666
Duration	54:37:0	000/00:55:00.666	000/00:55:00.666

Top Label G1JNGRSSUB01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	238	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Spectral map of the GRS in and out of several CH_4 and H_2 absorption features. 80 wavelengths obtained using table JSB80A.

Data Garbled, No Data Returned

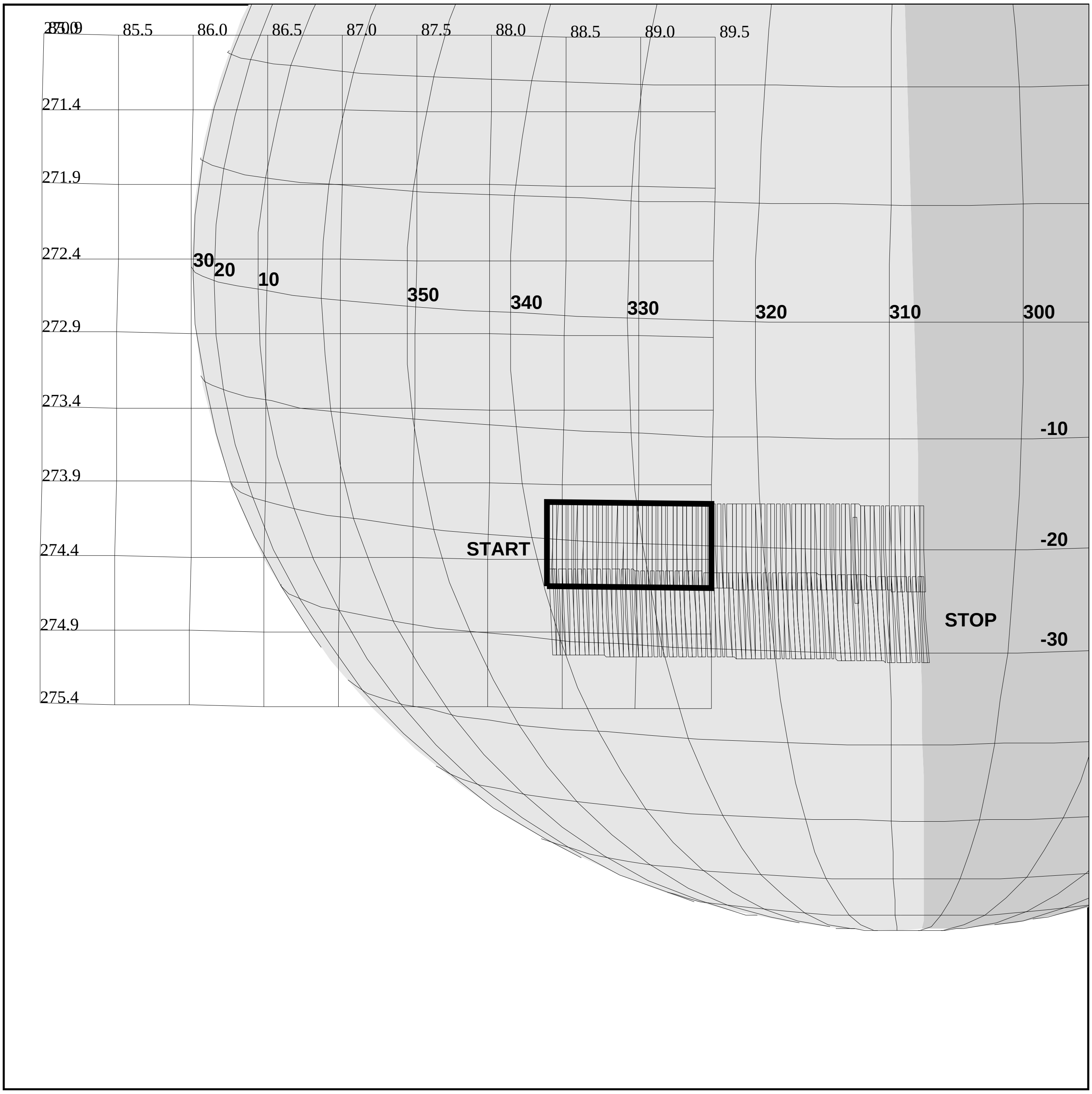
Design Detail

2*3 (~18 mrads N/S by ~30 mrads E/W) longmap of Great Red Spot.
2 minutes reserved for targetting. Nyquist sampling E/W.
2 mrad overlap between the two tiers. GRS assumed located at
321 degrees longitude (System III), 23 degrees S. latitude.
Record duration: 3182 seconds, accumulating 3.2045 MBTG in 80 colors
using 0.1069 tracks.

Cone: 91 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1JSB80A, G1JSB80A

Galileo Activity Plan Form 05/09/96 18:13:55 rev 6/95



165EE:TT= 0 TMC= 1 C= -25.50 XC= -4.00 BS= 0/8191 TC= 1(-23 320)
A= 728 pD= 0 SR=17.430 RA50= 14.17 DEC50= 0.75 cone= 88.44 clock=274.29
117EE:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/8191
1:#s= 2 Cs= 42.00 XCs= 0.00 Cr= -44.00 XCr= 8.00 sD= 1062 rD= 24

G1JNGRS09102

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS09102

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-180/00:31:20.266 +CDS 491:00:0 **BODY PLOT TIME:START-TIME D= 0 S= 1.300**

OBSERVATION:G1JNGRS09102 **DESCRIP:GRS PHASE 91 #2**

GRS 91 Phase #2	ACTIVITY ID: G1JNGRS09102- START TIME: 96-180/08:43:44.932

Activity ID: Orbit G1 Target J Inst N OAPEL GRS091 SeqNo 02 -

Title	GRS 91 Phase #2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/28/96 Week 26

Start	JEE+CDS 487:00:0	96-180/08:43:44.932	JEE+000/08:12:24.666
End	JEE+CDS 502:76:0	96-180/08:59:45.599	JEE+000/08:28:25.333
Duration	15:76:0	000/00:16:00.667	000/00:16:00.667

Top Label G1JNGRS09102-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

91 degrees phase observation of GRS near evening terminator. Second of 2 observations (besides GRSSUB, GRS5UM and GRS3UM observations) acquired on this rotation. 4 colors obtained using table JFT04A.

Data UnGarbled, Data Returned

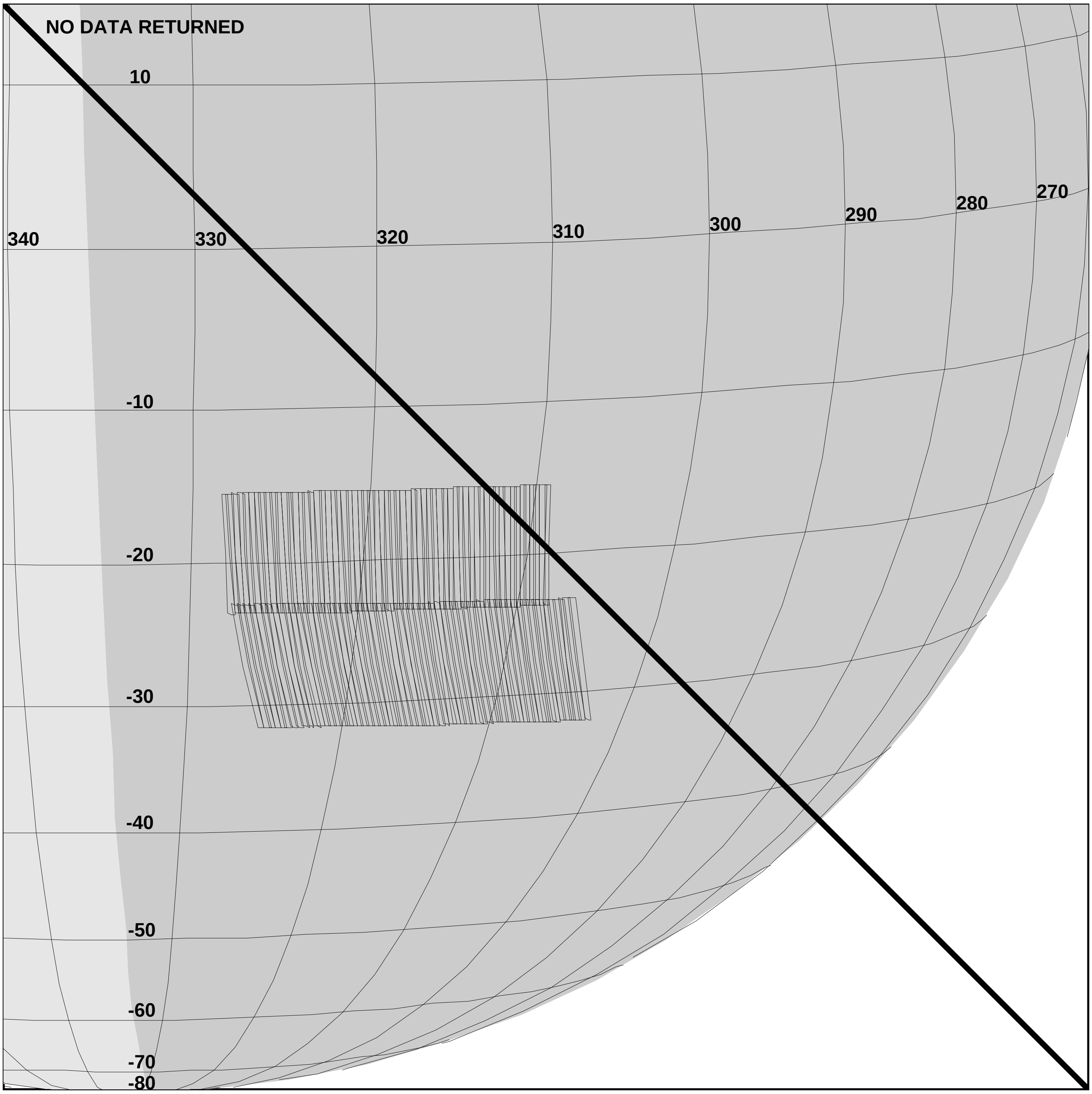
Design Detail

Approximately 2*3 (~18 mrads N/S by ~30 mrads E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 950 seconds, accumulating 0.2427 MBTG in 4 colors using 0.0318 tracks.

Cone: 89 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT68A, G1JFT68A

Galileo Activity Plan Form 05/09/96 18:13:55 rev 6/95



165EH:TT= 0 TMC= 1 C= 13.00 XC= -5.00 BS= 0/6380 TC= 1(-23 318)
A= 364 pD= 0 SR=17.430 RA50= 12.69 DEC50= 0.23 cone= 90.01 clock=274.13
117EH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6380
1:#s= 2 Cs= -32.00 XCs= 0.00 Cr= 26.00 XCr= 8.00 sD= 3210 rD= 24

G1JNGRS5UM01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS5UM01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: | **THINNING:NIM 2**

START:JEE 96-180/00:31:20.266 +CDS 536:00:0 | **BODY PLOT TIME:START-TIME D= 0 S= 1.800**

OBSERVATION:G1JNGRS5UM01 | **DESCRIP:GRS 5-MICRON MAP #1 NIMS LM**

GRS 5-micron map #1	ACTIVITY ID: G1JNGRS5UM01-
	START TIME: 96-180/09:31:16.266

Activity ID: Orbit G1 Target J Inst N OAPEL GRS5UM SeqNo 01 -

Title	GRS 5-micron map #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/28/96 Week 26

Start	JEE+CDS 534:00:0	96-180/09:31:16.266	JEE+000/08:59:56.000
End	JEE+CDS 571:54:0	96-180/10:09:16.932	JEE+000/09:37:56.666
Duration	37:54:0	000/00:38:00.666	000/00:38:00.666

Top Label G1JNGRS5UM01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

5 Micron nighttime spectral map of trace species within GRS, near central meridian. First of 2 nightside 5-micron observations. 80 contiguous wavelengths acquired utilizing table J5M80B.

Data Garbled, No Data Returned

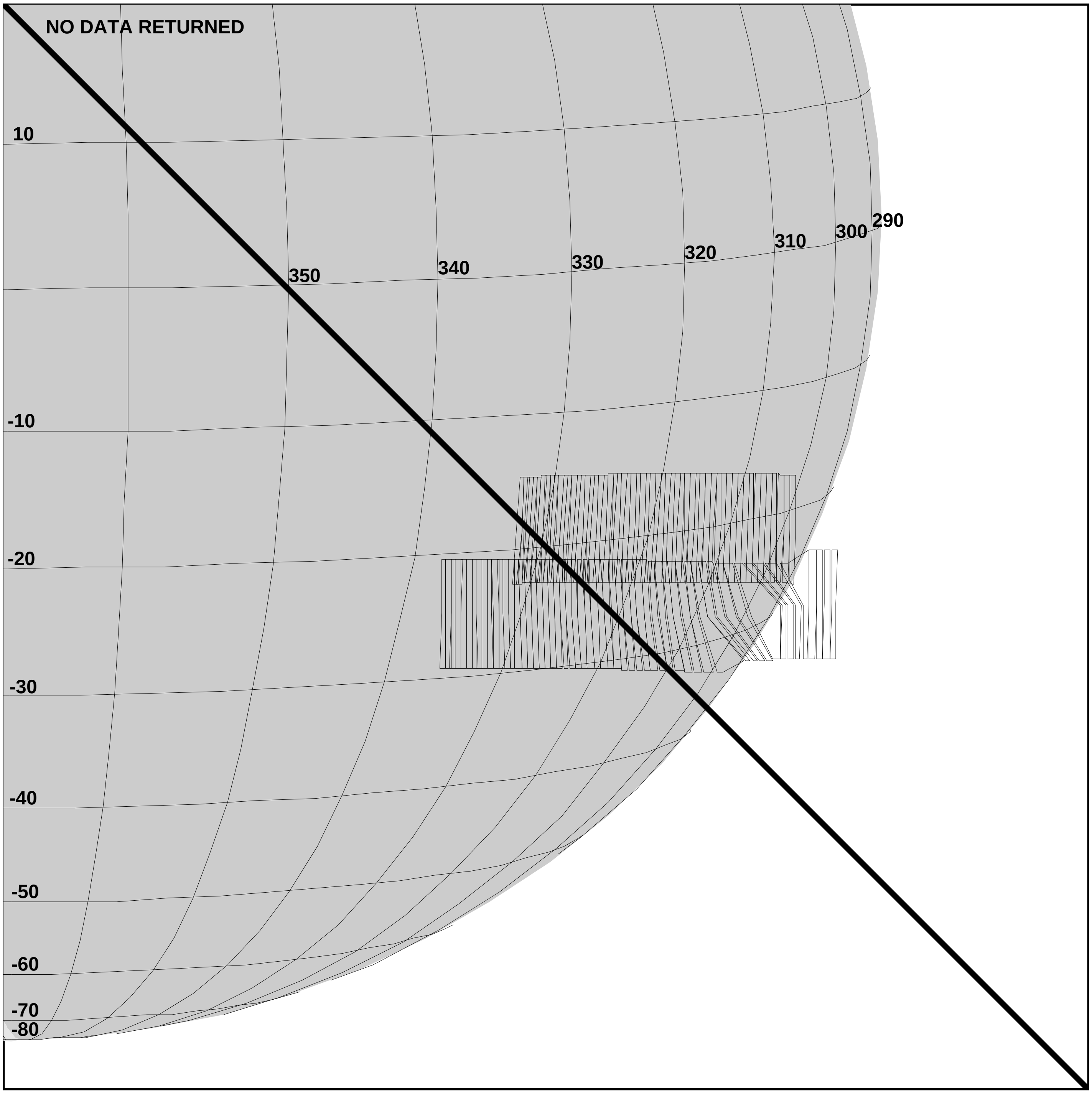
Design Detail

2*3 (~18 mrads N/S by ~30 mrads E/W) longmap of Great Red Spot. 2 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 2164 seconds, accumulating 2.1793 MBTG in 80 colors using 0.0727 tracks.

Cone: 89 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, G1J5M80B, G1J5M80B

Galileo Activity Plan Form 05/09/96 18:13:55 rev 6/95



165EI:TT= 0 TMC= 1 C= -15.00 XC= -4.00 BS= 0/4570 TC= 1(-23 318)
A= 182 pD= 5826 SR=17.430 RA50= 15.04 DEC50= 1.48 cone= 87.34 clock=273.99
117EI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4570
1:#s= 2 Cs= 28.70 XCs= 0.00 Cr= -32.00 XCr= 8.00 sD= 2898 rD= 30

G1JNGRS3UM01

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS3UM01

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 581:00:0

OBSERVATION:G1JNGRS3UM01

THINNING:NIM 2

BODY PLOT TIME:CENTER-TIME D= 5826 S= 1.600

DESCRIP:GRS 3-MICRON MAP#1 NIMS LM

GRS 3-micron map	ACTIVITY ID: G1JNGRS3UM01- START TIME: 96-180/10:17:46.932

Activity ID: Orbit G1 Target J Inst N OAPEL GRS3UM SeqNo 01 -

Title	GRS 3-micron map			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS   Load ID G1A   Calendar Date 06/28/96 Week 26

Start	JEE+CDS 580:00:0	96-180/10:17:46.932	JEE+000/09:46:26.666
End	JEE+CDS 613:00:0	96-180/10:51:08.932	JEE+000/10:19:48.666
Duration	33:00:0	000/00:33:22.000	000/00:33:22.000

Top Label G1JNGRS3UM01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	192	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

3 and 5 micron nightime spectral map of trace species within GRS, at about 40 degrees relative longitude. 160 contiguous wavelengths acquired utilizing table J35160.

Data Garbled, No Data Returned

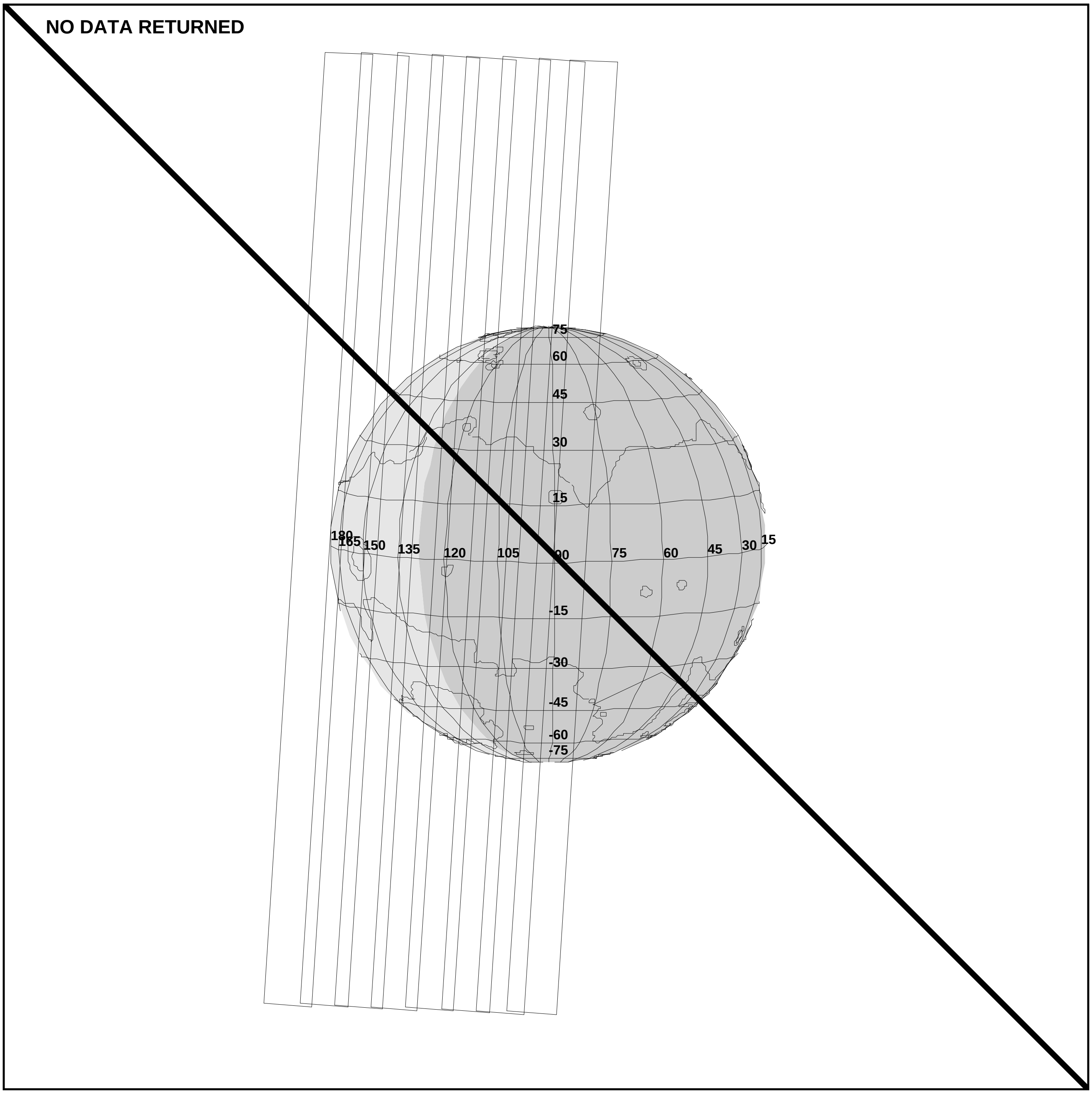
Design Detail

2*3 (~18 mrads N/S by ~30 mrads E/W) longmap of Great Red Spot. 30 seconds reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 2164 seconds, accumulating 4.3586 MBTG in 160 colors using 0.0727 tracks.

Cone: 88 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, G1J35160, G1J35160

Galileo Activity Plan Form   05/09/96 18:13:55   rev 6/95



165EL:TT= 0 TMC= 1 C= -2.60 XC= 0.00 BS= 0/5490 TC= 9
A= 384 pD= 3600 SR=17.430 RA50= 46.29 DEC50= 14.72 cone= 53.76 clock=274.05
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5490
1:#s= 1 Cs= 1.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 204 rD= 12

G1INCHEMIS02

DESIGN G1.0 brad : 6/12/1996 8:12:17

FILE:P.G1INCHEMIS02

TARGET BODY : IO

MINI:m.G1INCHEMIS02

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-180/18:27:09.533 -CDS 423:00:0

BODY PLOT TIME:TARGET-TIME D= 3600 S= 0.400

OBSERVATION:G1INCHEMIS02

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE   ACTIVITY ID: G1INCHEMIS02-
START TIME: 96-180/11:16:25.533

Activity ID: Orbit G1 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 G1A Calendar Date 06/28/96 Week 26

Start	IEE-CDS 426:00:0	96-180/11:16:25.533	IEE-000/07:10:44.000
End	IEE-CDS 421:63:0	96-180/11:20:46.867	IEE-000/07:06:22.666
Duration	4:28:0	000/00:04:21.334	000/00:04:21.334

Top Label G1INCHEMIS02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	171	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 Garbled, No Data Returned

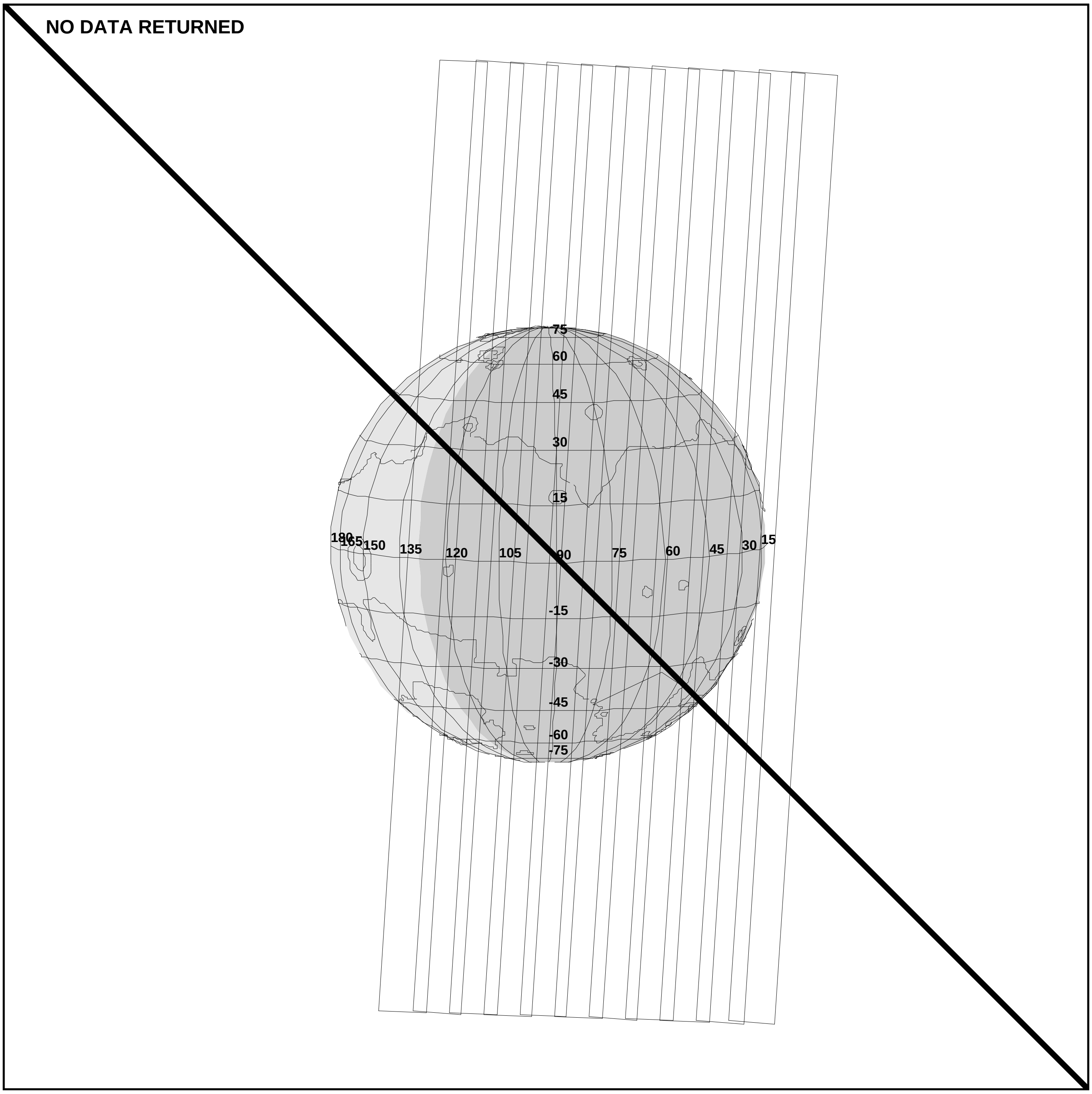
Design Detail

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.

Cone: 53 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102

Galileo Activity Plan Form   05/09/96 18:13:55 rev 6/95



165EK:TT= 0 TMC= 1 C= -1.40 XC= 0.00 BS= 0/6218 TC= 9
A= 364 pD= 0 SR=17.430 RA50= 46.41 DEC50= 14.74 cone= 53.65 clock=274.08
117EK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6218
1:#s= 1 Cs= 2.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 288 rD= 2

G1INTHRMAL02

DESIGN G1.0 brad : 6/12/1996 8:27:32

FILE:P.G1INTHRMAL02

TARGET BODY : IO

MINI:m.G1INTHRMAL02

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 419:00:0

OBSERVATION:G1INTHRMAL02

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO’S NIGHTSIDE — ACTIVITY ID: G1INTHRMAL02- START TIME: 96-180/11:21:28.867

Activity ID: Orbit G1 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 G1A Calendar Date 06/28/96 Week 26

Start	IEE-CDS 421:00:0	96-180/11:21:28.867	IEE-000/07:05:40.666
End	IEE-CDS 416:38:0	96-180/11:26:06.867	IEE-000/07:01:02.666
Duration	4:53:0	000/00:04:38.000	000/00:04:38.000

Top Label G1INTHERMAL02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	174	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 Garbled, No Data Returned

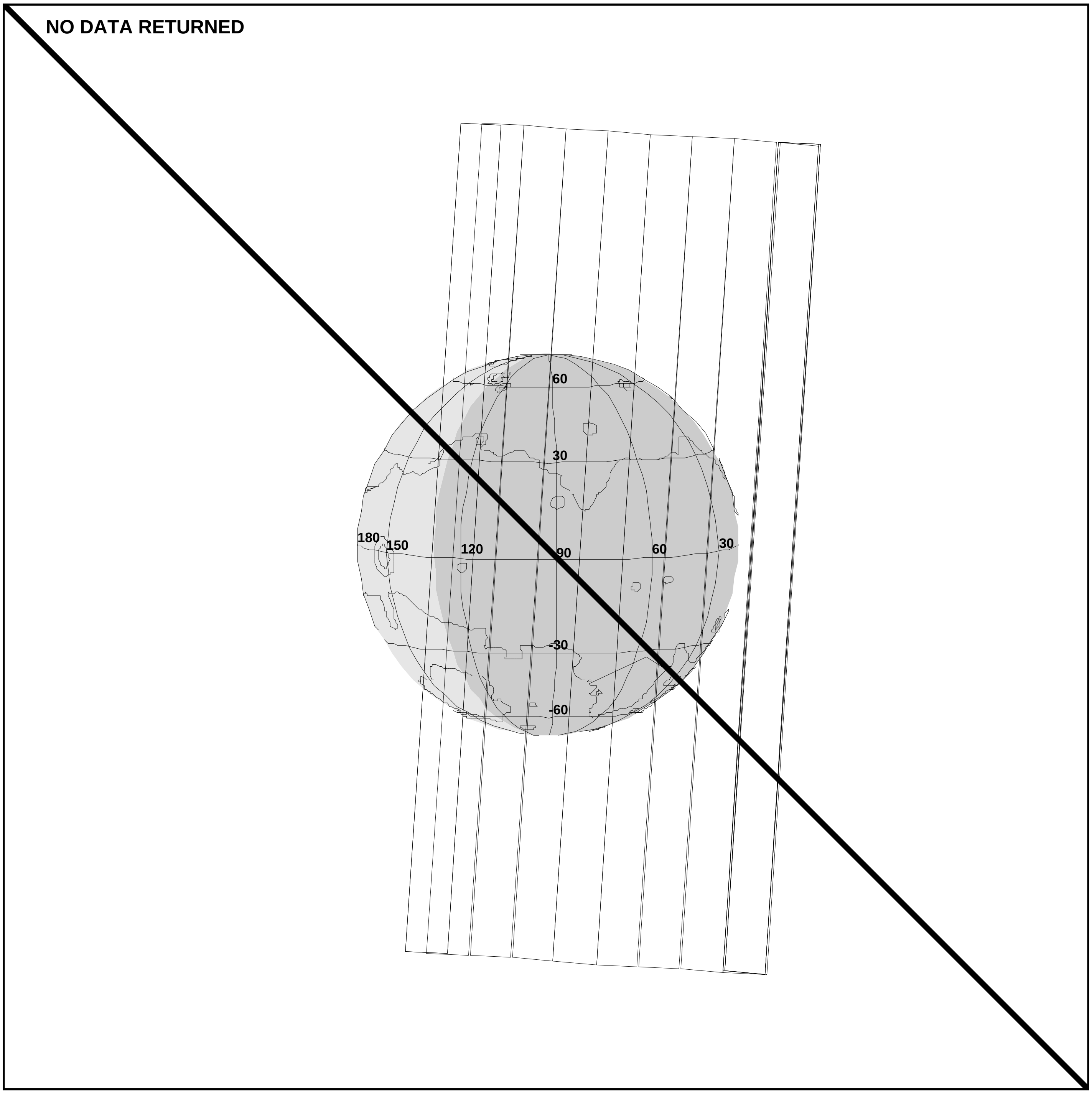
Design Detail

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.

Cone: 53 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, G1ILMDK245, G1ILMDK102

Galileo Activity Plan Form 05/09/96 18:13:55 rev 6/95



165EM:TT= 0 TMC= 1 C= -1.15 XC= 0.00 BS= 0/7128 TC= 3
A= 364 pD= 0 SR=17.430 RA50= 46.62 DEC50= 14.79 cone= 53.45 clock=274.11
117EM:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7128
1:#s= 1 Cs= 3.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 26 rD= 2

G1INVOLCAN05

DESIGN G1.0 brad : 6/12/1996 8:39:39

FILE:P.G1INVOLCAN05

TARGET BODY : IO

MINI:m.G1INVOLCAN05

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 414:00:0

OBSERVATION:G1INVOLCAN05

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.350

DESCRIP:monitor volcanic regions

MONITORING OF SELECTED VOLCANIC REGIONS **ACTIVITY ID: G1INVOLCAN05-**
START TIME: 96-180/11:26:32.200

Activity ID: Orbit G1 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	G1A	Calendar Date	06/28/96	Week	26

Start	IEE-CDS 416:00:0	96-180/11:26:32.200	IEE-000/07:00:37.333
End	IEE-CDS 411:69:0	96-180/11:30:49.533	IEE-000/06:56:20.000
Duration	4:22:0	000/00:04:17.333	000/00:04:17.333

Top Label G1INVOLCAN05-
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

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

Data Garbled, No Data Returned

Design Detail

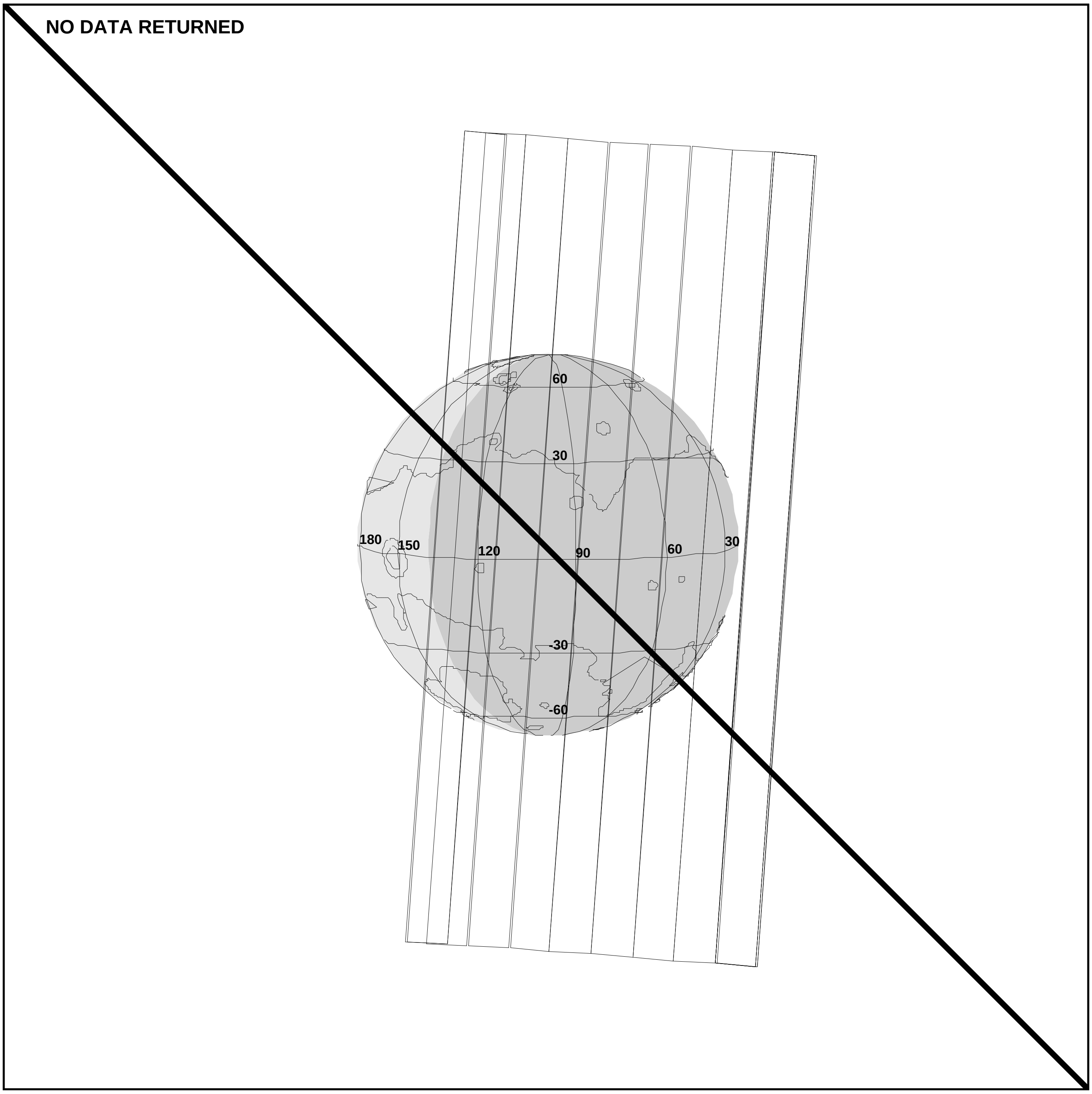
Fixed Map, 10 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~5 observations per orbit.
Tracks: 0.005 per observation.

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

Cone: 53 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form 05/09/96 18:13:55 rev 6/95



165EN:TT= 0 TMC= 1 C= -1.15 XC= 0.00 BS= 0/7320 TC= 3
A= 364 pD= 0 SR=17.430 RA50= 48.88 DEC50= 15.33 cone= 51.21 clock=274.43
117EN:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7320
1:#s= 1 Cs= 3.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 26 rD= 2

G1INVOLCAN04

DESIGN G1.0 brad : 6/12/1996 8:39:15

FILE:P.G1INVOLCAN04

TARGET BODY : IO

MINI:m.G1INVOLCAN04

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 358:00:0

OBSERVATION:G1INVOLCAN04

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.350

DESCRIP:monitor volcanic regions

MONITORING OF SELECTED VOLCANIC REGIONS	ACTIVITY ID: G1INVOLCAN04- START TIME: 96-180/12:23:09.533

Activity ID: Orbit G1 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 G1A Calendar Date 06/28/96 Week 26

Start	IEE-CDS 360:00:0	96-180/12:23:09.533	IEE-000/06:04:00.000
End	IEE-CDS 355:69:0	96-180/12:27:26.867	IEE-000/05:59:42.666
Duration	4:22:0	000/00:04:17.334	000/00:04:17.334

Top Label G1INVOLCAN04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	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 Garbled, No Data Returned

Design Detail

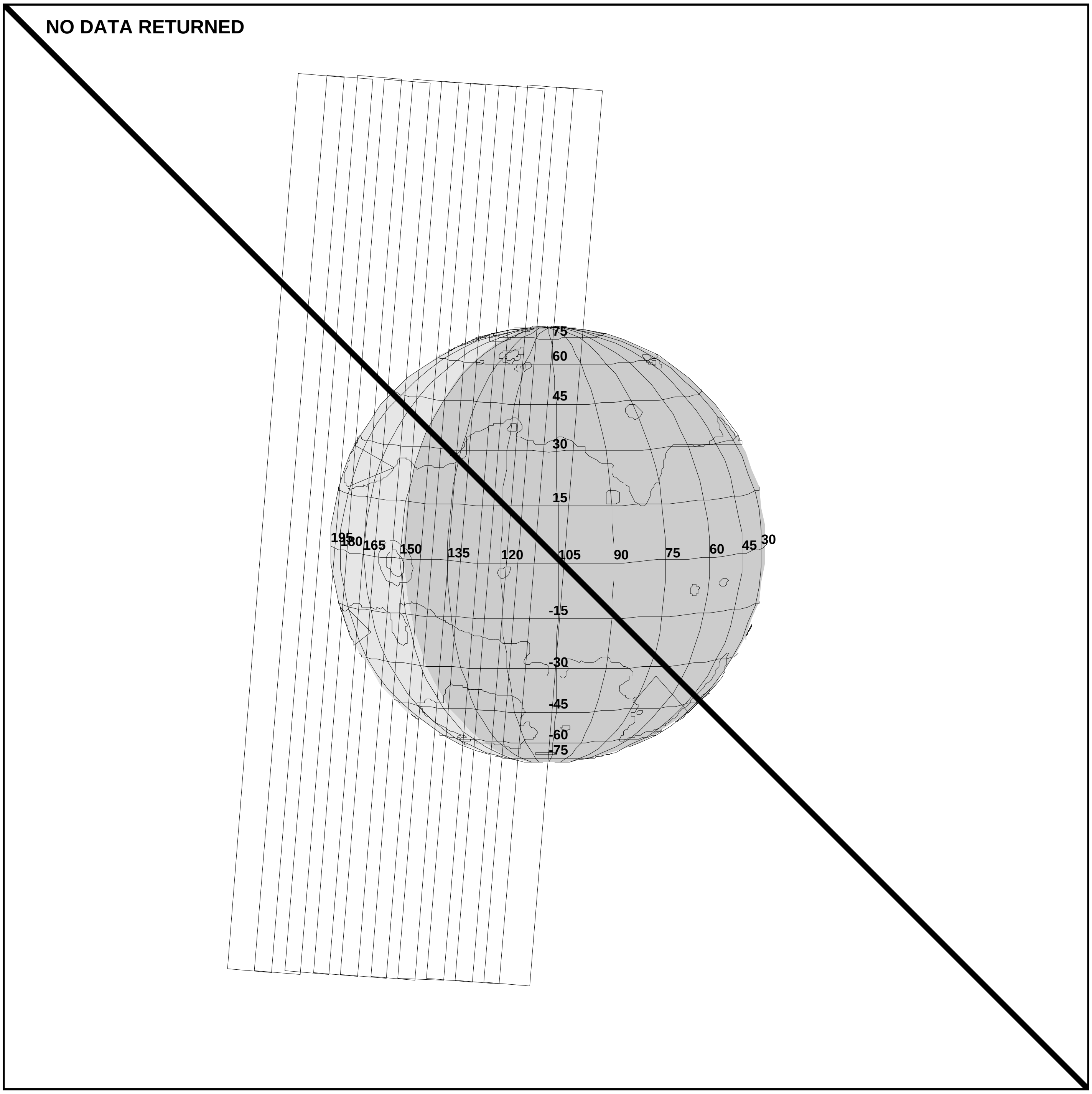
Fixed Map, 10 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~5 observations per orbit.
Tracks: 0.005 per observation.

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

Cone: 51 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form 05/09/96 18:13:55 rev 6/95



165EO:TT= 0 TMC= 1 C= -3.10 XC= 0.00 BS= 0/2244 TC= 9
A= 728 pD= 0 SR=17.430 RA50= 51.51 DEC50= 15.90 cone= 48.63 clock=274.84
117EO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2244
1:#s= 1 Cs= 2.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 268 rD= 12

G1INCHEMIS03

DESIGN G1.0 brad : 6/12/1996 8:12:52

FILE:P.G1INCHEMIS03

TARGET BODY : IO

MINI:m.G1INCHEMIS03

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 276:00:0

OBSERVATION:G1INCHEMIS03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE **ACTIVITY ID: G1INCHEMIS03-**
START TIME: 96-180/13:45:03.533

Activity ID: Orbit G1 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 G1A Calendar Date 06/28/96 Week 26

Start	IEE-CDS 279:00:0	96-180/13:45:03.533	IEE-000/04:42:06.000
End	IEE-CDS 273:48:0	96-180/13:50:35.533	IEE-000/04:36:34.000
Duration	5:43:0	000/00:05:32.000	000/00:05:32.000

Top Label G1INCHEMIS03-
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

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 Garbled, No Data Returned

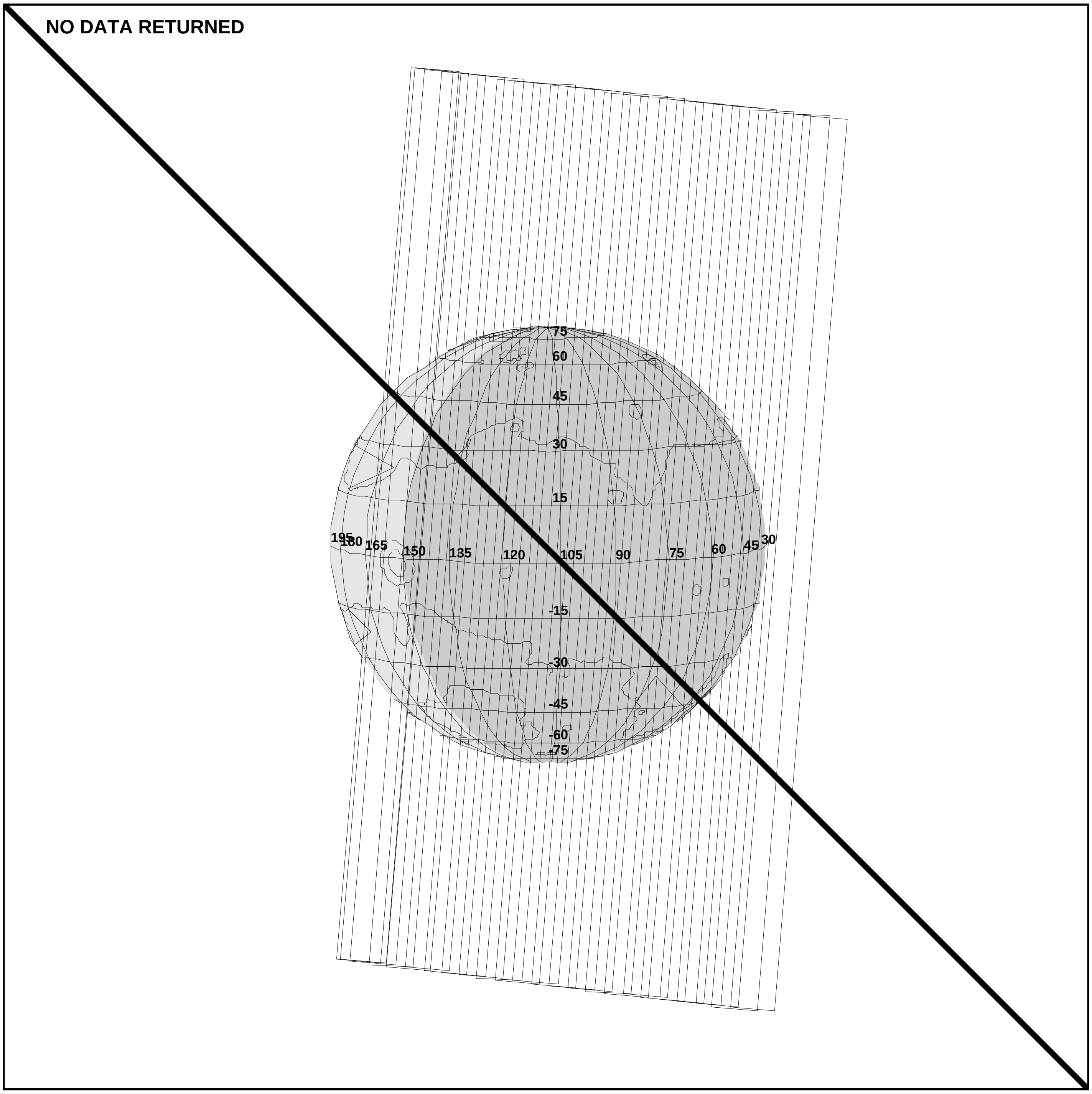
Design Detail

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.

Cone: 48 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102

Galileo Activity Plan Form 05/09/96 18:13:56 rev 6/95



165EP:TT= 0 TMC= 1 C= 2.80 XC= 0.00 BS= 0/3336 TC= 9
A= 364 pD= 0 SR=17.430 RA50= 51.32 DEC50= 15.81 cone= 48.83 clock=274.87
117EP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3336
1:#s= 1 Cs= -5.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 614 rD= 12

G1INTHRMAL03

DESIGN G1.0 brad : 6/12/1996 8:27:53

FILE:P.G1INTHRMAL03

TARGET BODY : IO

MINI:m.G1INTHRMAL03

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 270:00:0

OBSERVATION:G1INTHRMAL03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: G1INTHRMAL03- START TIME: 96-180/13:52:08.200

Activity ID: Orbit G1 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	G1A	Calendar Date	06/28/96	Week	26

Start	IEE-CDS 272:00:0	96-180/13:52:08.200	IEE-000/04:35:01.333
End	IEE-CDS 265:55:0	96-180/13:58:36.200	IEE-000/04:28:33.333
Duration	6:36:0	000/00:06:28.000	000/00:06:28.000

Top Label	G1INTHERMAL03-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	174	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 Garbled, No Data Returned

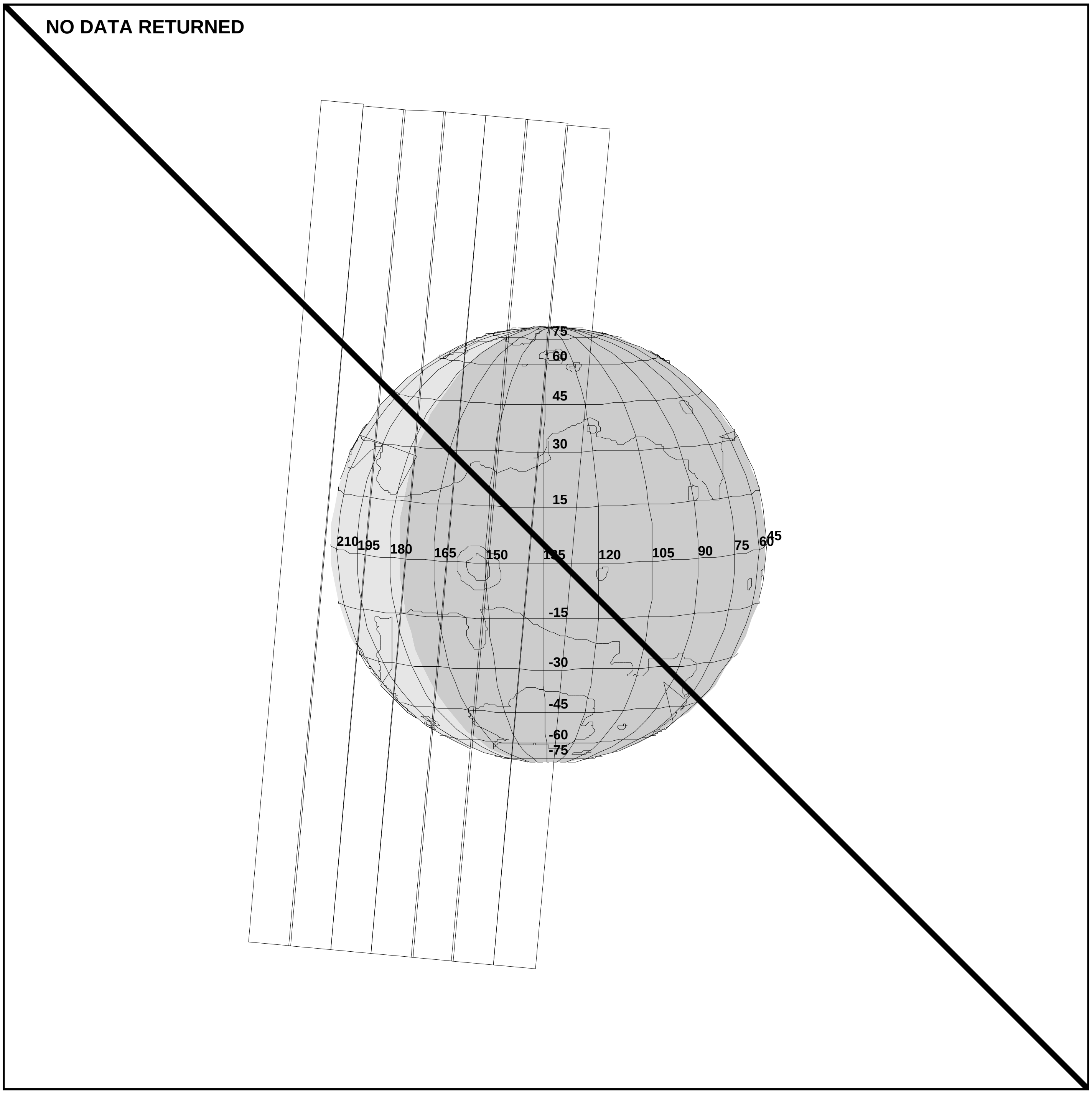
Design Detail

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.

Cone: 48 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, G1ILMDK245, G1ILMDK102

Galileo Activity Plan Form 05/09/96 18:13:56 rev 6/95



165EQ:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/7552 TC= 9
A= 728 pD= 0 SR=17.430 RA50= 53.19 DEC50= 16.16 cone= 47.02 clock=275.23
117EQ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7552
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 374 rD= 12

G1INCHEMIS04

DESIGN G1.0 brad : 6/12/1996 8:13:22

FILE:P.G1INCHEMIS04

TARGET BODY : IO

MINI:m.G1INCHEMIS04

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 82:00:0

OBSERVATION:G1INCHEMIS04

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE | **ACTIVITY ID: G1INCHEMIS04-**
START TIME: 96-180/17:00:12.200

Activity ID: Orbit G1 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	G1A	Calendar Date	06/28/96	Week	26

Start	IEE-CDS 86:00:0	96-180/17:00:12.200	IEE-000/01:26:57.333
End	IEE-CDS 74:58:0	96-180/17:11:41.533	IEE-000/01:15:28.000
Duration	11:33:0	000/00:11:29.333	000/00:11:29.333

Top Label	G1INCHEMIS04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	171	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 Garbled, No Data Returned

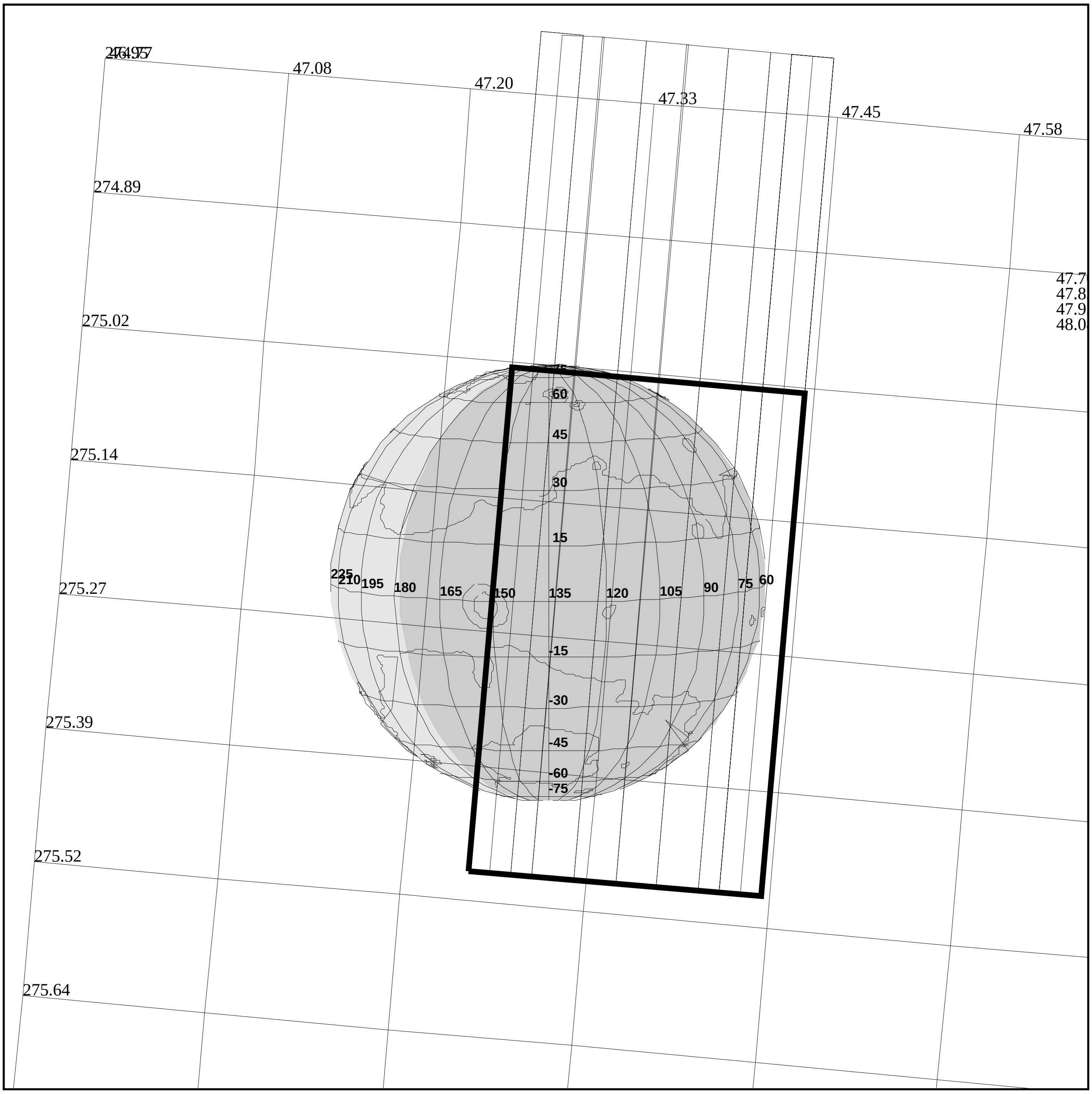
Design Detail

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

Cone: 47 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM228

Galileo Activity Plan Form 05/09/96 18:13:56 rev 6/95



165DH:TT= 0 TMC= 1 C= -0.40 XC= -1.50 BS= 0/9736 TC= 9
A= 728 pD= 0 SR=17.430 RA50= 52.92 DEC50= 16.17 cone= 47.26 clock=275.10
117DH:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/9736
1:#s= 1 Cs= 3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

G1INIOMON_05

DESIGN G1.0 brad : 6/12/1996 8:24:20

FILE:P.G1INIOMON_05

TARGET BODY : IO

MINI:m.G1INIOMON_05

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 70:00:0

OBSERVATION:G1INIOMON_05

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

Io Monitoring in Real Time	ACTIVITY ID: G1INIOMON_05- START TIME: 96-180/17:12:20.200

Activity ID: Orbit G1 Target I Inst N OAPEL IOMON_ SeqNo 05 -

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

Time System	CDS	Load ID	G1A	Calendar Date	06/28/96	Week	26

Start	IEE-CDS 74:00:0	96-180/17:12:20.200	IEE-000/01:14:49.333
End	IEE-CDS 69:79:0	96-180/17:16:30.867	IEE-000/01:10:38.666
Duration	4:12:0	000/00:04:10.667	000/00:04:10.667

Top Label	G1INIOMON_05-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Real Time observation of Io’s nightside to map hot spots and look for thermal changes on the surface.

Data UnGarbled, Data Returned

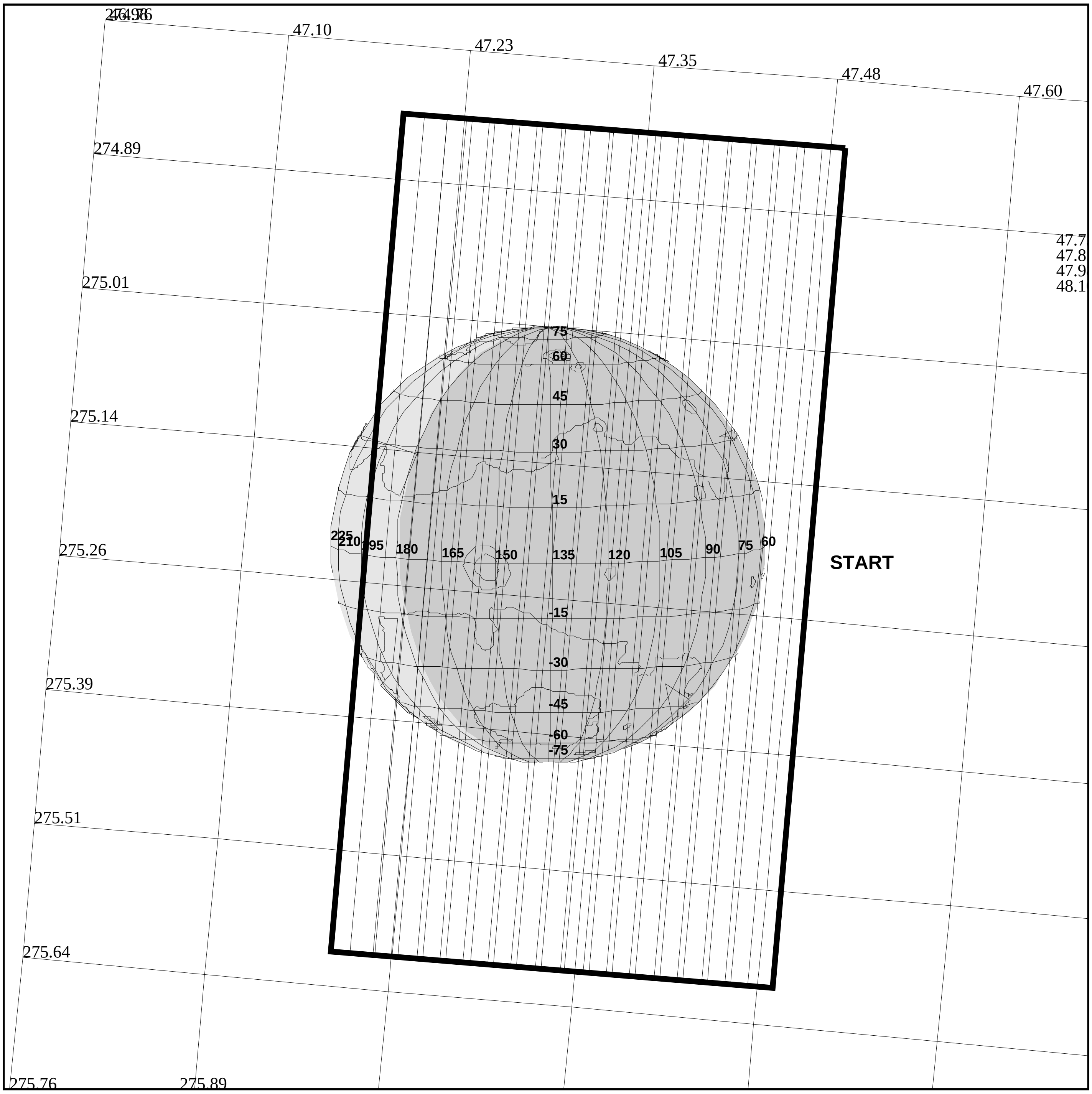
Design Detail

Observation duration: 12 minor frames. These 12 minor frames must be the first 12 of a rim. NIMS mirror scans cut from 20 to 12.
Fixed map, 8 wavelengths. MBTG = 0.017 R/T = 3.5% MUB
Total 23 fields of view, use Nyquist rate, global mosaic.
Design the observation to bias toward the bottom of the scan, i.e., cover the satellite with the bottom mirrors accounting for pointing uncertainty. Plot all 20 mirror positions.

Cone: 47 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, R/T, G1IXM8RT

Galileo Activity Plan Form   05/09/96 18:13:56   rev 6/95



165ER:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/0282 TC= 9
A= 364 pD= 0 SR=17.430 RA50= 52.73 DEC50= 16.02 cone= 47.48 clock=275.21
117ER:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0282
1:#s= 1 Cs= -4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 478 rD= 2

G1INNSPEC_01

DESIGN G1.0 brad : 6/12/1996 8:25:16

FILE:P.G1INNSPEC_01

TARGET BODY : IO

MINI:m.G1INNSPEC_01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 -CDS 67:00:0

OBSERVATION:G1INNSPEC_01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:NIGHTSIDE SPECTRA AT HIGH RES

NIGHTSIDE SPECTRA AT HIGH RESOLUTION ACTIVITY ID: G1INNSPEC_01-
START TIME: 96-180/17:17:23.533

Activity ID: Orbit G1 Target I Inst N OAPEL NSPEC_ SeqNo 01 -

Title	NIGHTSIDE SPECTRA AT HIGH RESOLUTION		Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/28/96	Week	26

Start	IEE-CDS 69:00:0	96-180/17:17:23.533	IEE-000/01:09:46.000
End	IEE-CDS 64:40:0	96-180/17:22:00.200	IEE-000/01:05:09.333
Duration	4:51:0	000/00:04:36.667	000/00:04:36.667

Top Label G1INNSPEC_01-
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

Nightside spectra at high specral resolution (Long Map, 408 wavelengths) and relatively high spatial resolution (315 km/nimsel) to look for both known and yet unknown spectral features. This observation needs to be done only once during the mission, but it is important that it is done early so that data can be used to refine wavelength choice in subsequent observations.

Data UnGarbled, Data Returned

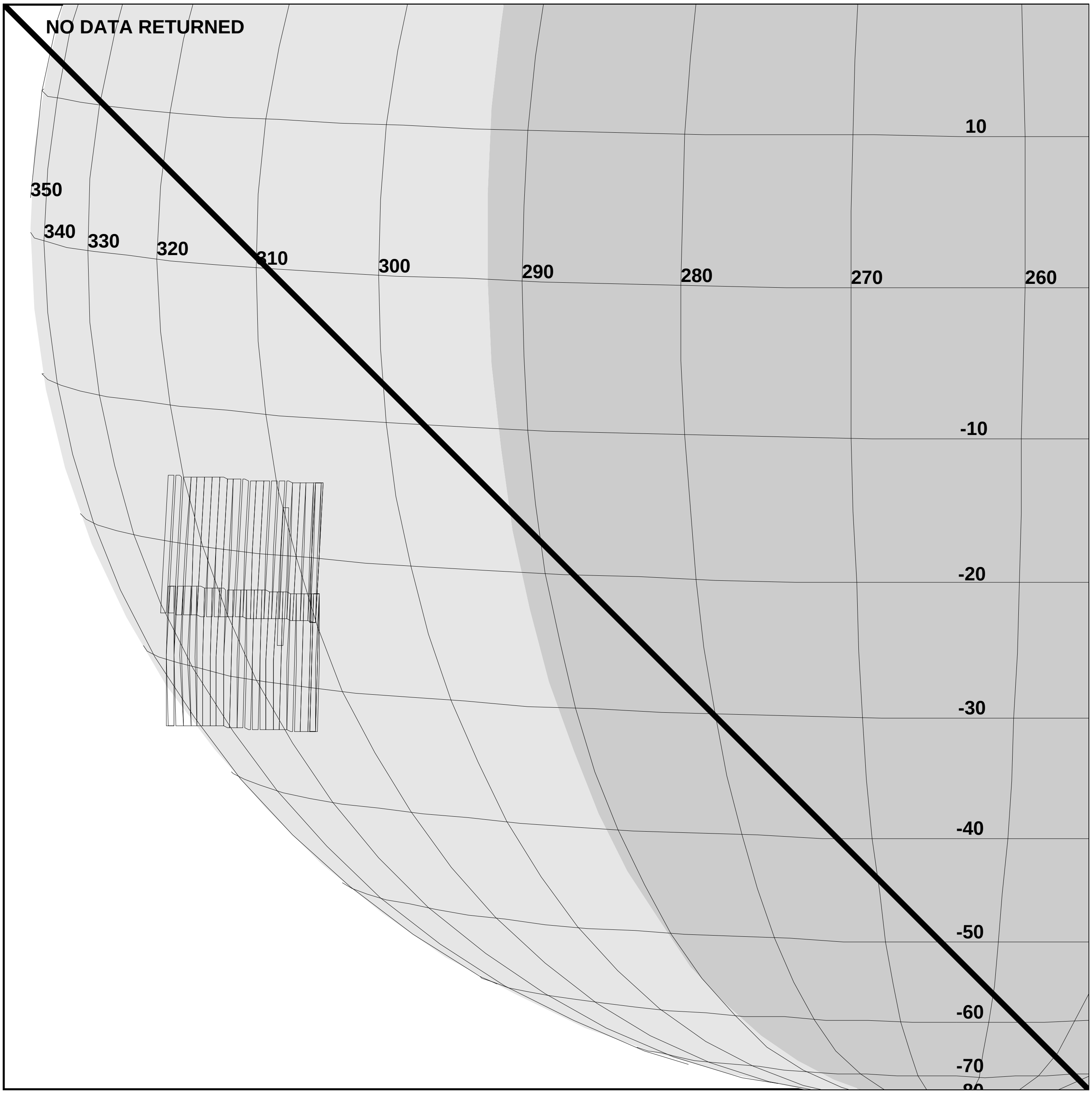
Design Detail

Nearly full disk mosaic including limb, Long Map, 408 wavelengths.
G1 is the only orbit at the beginning of the tour where a significant portion of Io’s disk at C/A is in the nightside.
Tracks used: 0.007,
Resolution: 315 km/nimsel,
Phase angle: 132 d.,
Cone angle: 47 d.

The G1 tape model requires an extra 10 Rims 39 mf tape slew after the CSMOS ends.

Long Map (LM), Gain 4, Grating Start 0, MPW, G1ILM442, G1ILM408

Galileo Activity Plan Form 05/09/96 18:13:56 rev 6/95



165EW:TT= 0 TMC= 1 C= -5.00 XC= -3.00 BS= 0/0656 TC= 1(-23 318)
A= 728 pD= 0 SR=17.430 RA50= 41.92 DEC50= 13.46 cone= 58.18 clock=273.65
117EW:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0656
1:#s= 2 Cs= 10.40 XCs= 0.00 Cr= -10.70 XCr= 8.00 sD= 330 rD= 36

G1JNGRS12301

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS12301

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-180/00:31:20.266 +CDS 1054:00:0 **BODY PLOT TIME:END-TIME D= 0 S= 1.700**

OBSERVATION:G1JNGRS12301 **DESCRIP:GRS PHASE 91 #1**

GRS 123 Phase #1		ACTIVITY ID:	G1JNGRS12301-
		START TIME:	96-180/18:13:00.266

Activity ID: Orbit G1 Target J Inst N OAPEL GRS123 SeqNo 01 -

Title	GRS 123 Phase #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/28/96 Week 26

Start	JEE+CDS 1050:00:0	96-180/18:13:00.266	JEE+000/17:41:40.000
End	JEE+CDS 1057:86:0	96-180/18:21:02.266	JEE+000/17:49:42.000
Duration	7:86:0	000/00:08:02.000	000/00:08:02.000

Top Label G1JNGRS12301-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	187	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

123 degrees phase observation of GRS near bright limb. Only observation obtained during this rotation. 15 wavelengths acquired using wavelength table JFT15A.

Data Garbled, No Data Returned

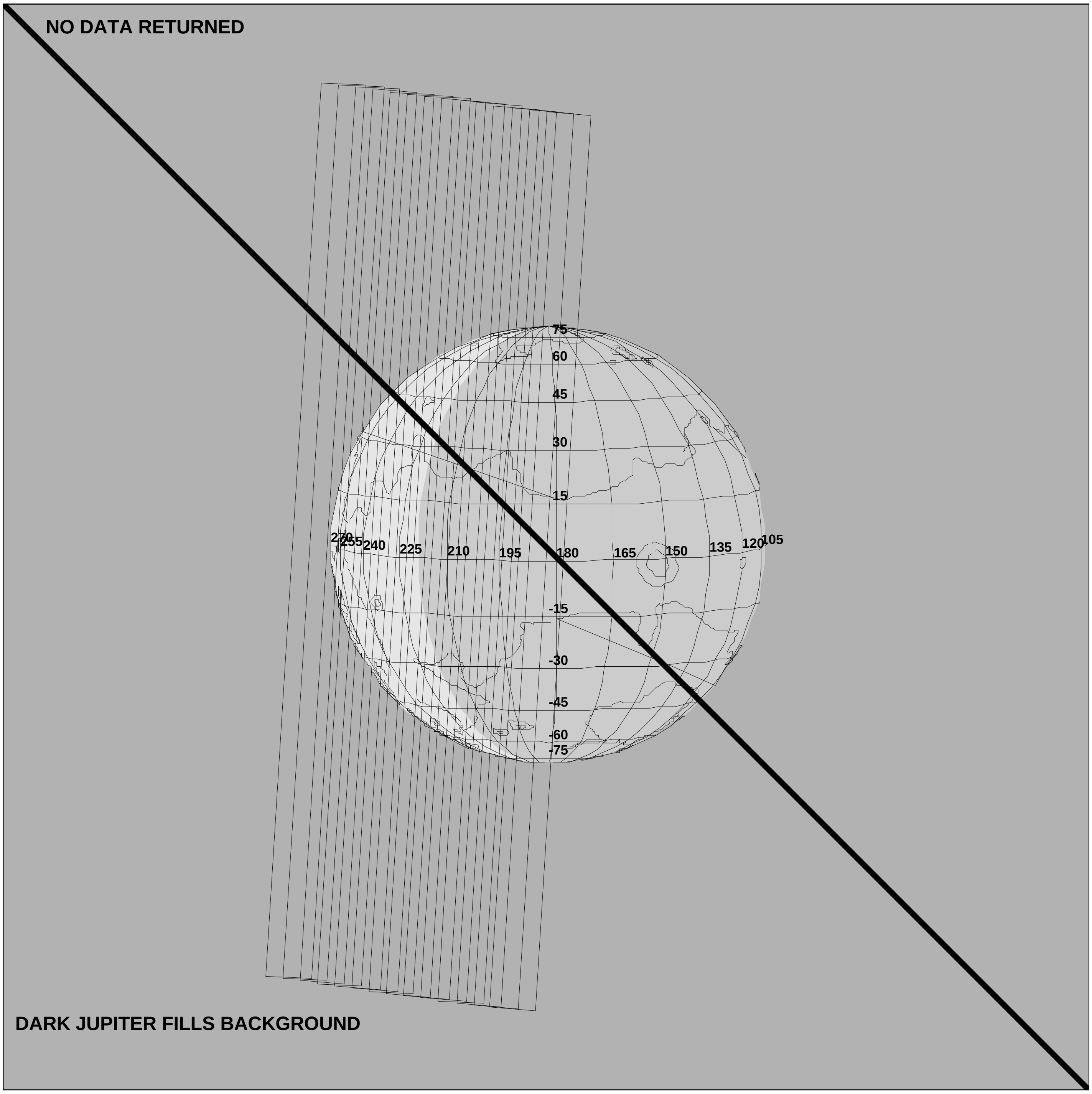
Design Detail

2*1 (~18 mrads E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlp between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 244 seconds, accumulating 0.1774 MBTG in 15 colors using 0.0082 tracks.

Cone: 58 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A

Galileo Activity Plan Form 05/09/96 18:13:56 rev 6/95



165ES:TT= 0 TMC= 1 C= -2.70 XC= 0.00 BS= 0/1424 TC= 9
A= 394 pD= 0 SR=17.430 RA50= 46.59 DEC50= 15.08 cone= 53.37 clock=273.75
117ES:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1424
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 374 rD= 12

G1INCHEMIS05

DESIGN G1.0 brad : 6/12/1996 8:13:57

FILE:P.G1INCHEMIS05

TARGET BODY : IO

MINI:m.G1INCHEMIS05

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 214:00:0

OBSERVATION:G1INCHEMIS05

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: G1INCHEMIS05-
	START TIME: 96-180/22:00:30.199

Activity ID: Orbit G1 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	G1A	Calendar Date	06/28/96	Week	26

Start	IEE+CDS 211:00:0	96-180/22:00:30.199	IEE+000/03:33:20.666
End	IEE+CDS 216:19:0	96-180/22:05:46.199	IEE+000/03:38:36.666
Duration	5:19:0	000/00:05:16.000	000/00:05:16.000

Top Label   G1INCHEMIS05-
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

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).

Processor Halted, No Data Returned

Design Detail

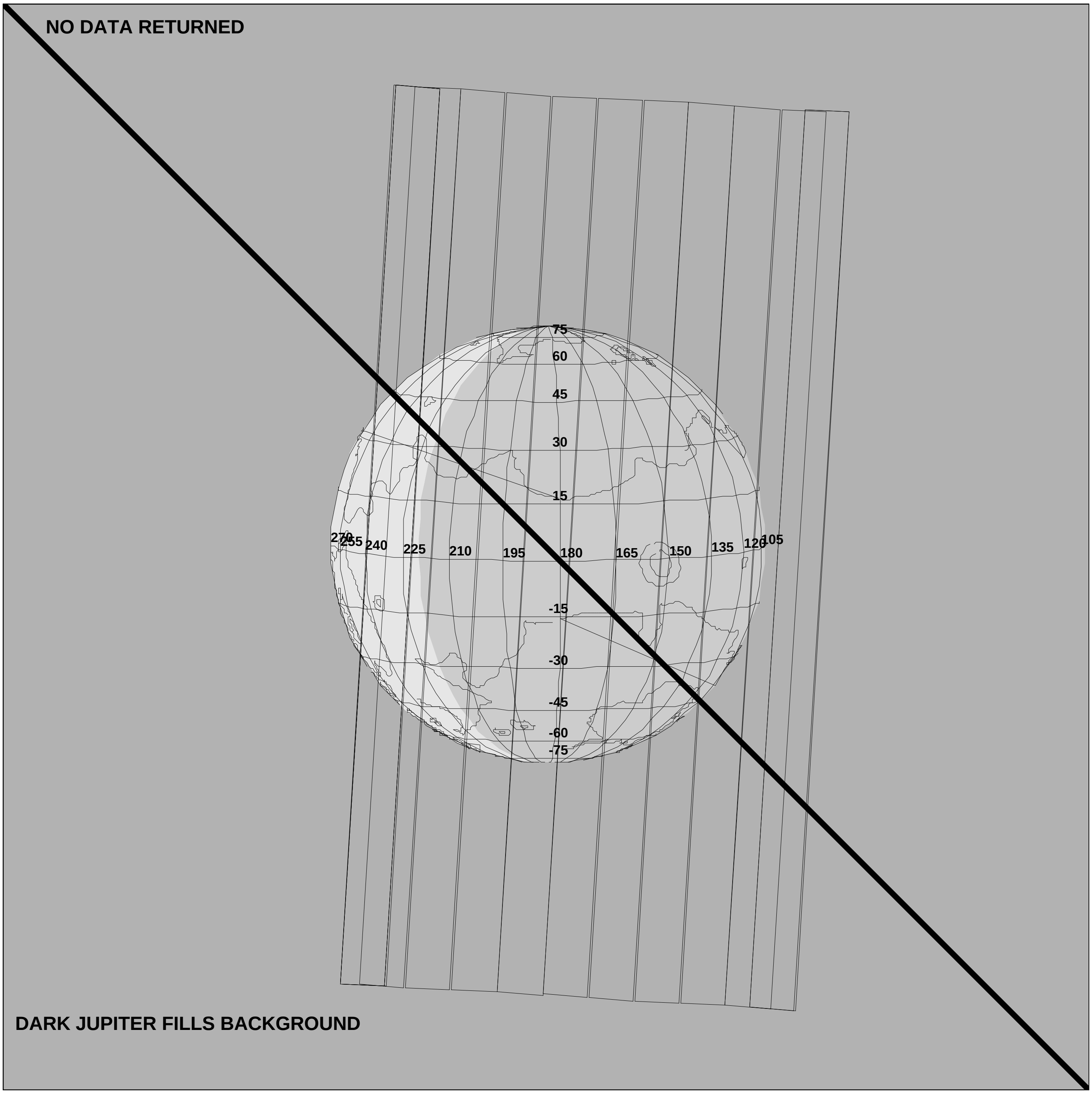
Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Cone: 53 degrees.

Dark Jupiter visible behind Io.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102

Galileo Activity Plan Form   05/09/96 18:13:56   rev 6/95



165ET:TT= 0 TMC= 1 C= 2.80 XC= 0.00 BS= 0/2334 TC= 9
A= 364 pD= 0 SR=17.430 RA50= 46.15 DEC50= 14.96 cone= 53.81 clock=273.72
117ET:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/2334
1:#s= 1 Cs= -4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 28 rD= 2

G1INTHRMAL04

DESIGN G1.0 brad : 6/12/1996 8:28:37

FILE:P.G1INTHRMAL04

TARGET BODY : IO

MINI:m.G1INTHRMAL04

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 219:00:0

OBSERVATION:G1INTHRMAL04

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO’S NIGHTSIDE	ACTIVITY ID: G1INTHRMAL04- START TIME: 96-180/22:06:34.199

Activity ID: Orbit G1 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	G1A	Calendar Date	06/28/96	Week	26

Start	IEE+CDS 217:00:0	96-180/22:06:34.199	IEE+000/03:39:24.666
End	IEE+CDS 222:05:0	96-180/22:11:40.866	IEE+000/03:44:31.333
Duration	5:05:0	000/00:05:06.667	000/00:05:06.667

Top Label	G1INTHERMAL04-
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

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.

Processor Halted, No Data Returned

Design Detail

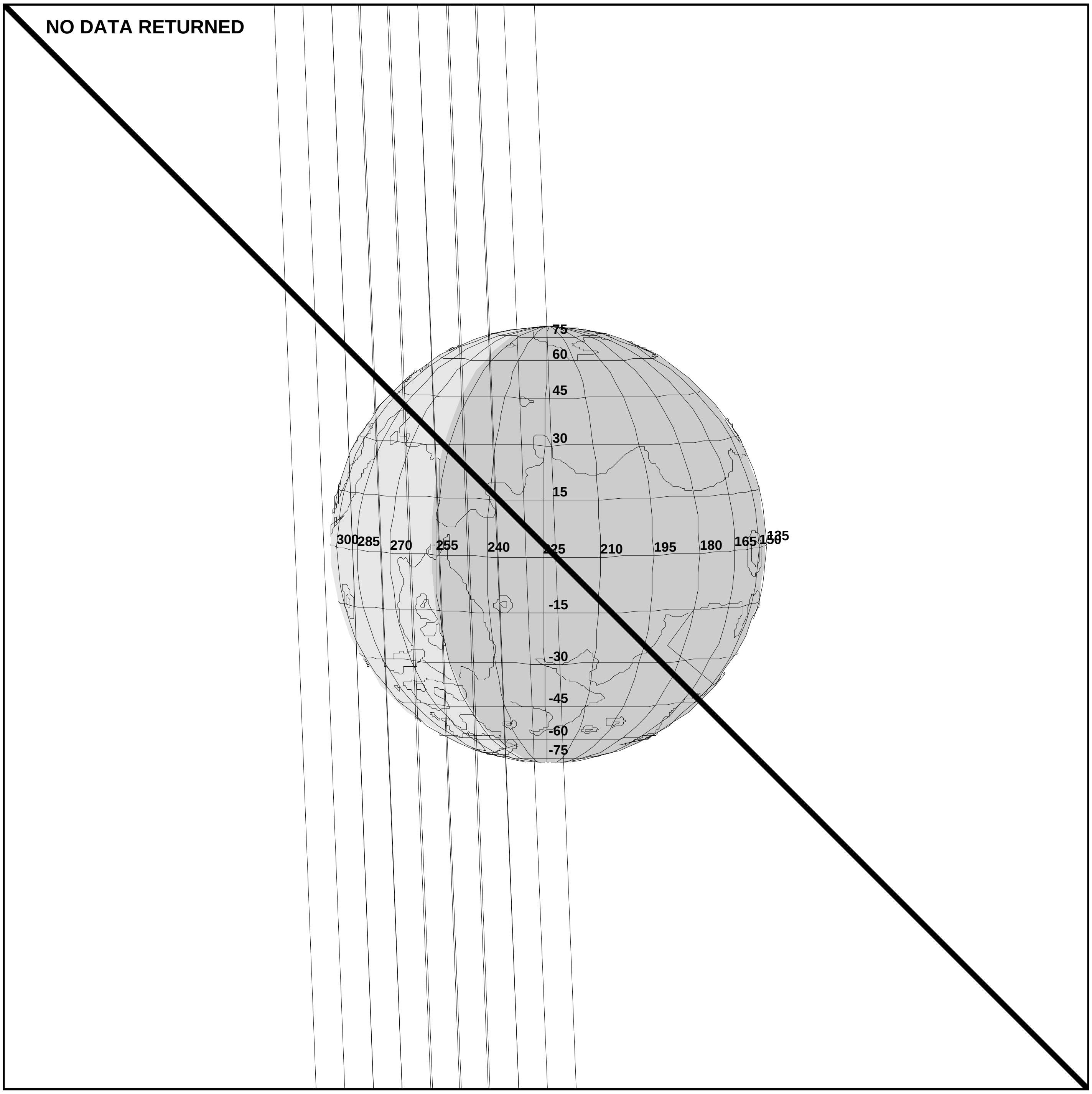
Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.
Instrument mode: Fixed Map,
Number of Wavelengths: 10,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Cone: 53 degrees.

Dark Jupiter visible behind Io.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form   05/09/96 18:13:56   rev 6/95



165EU:TT= 0 TMC= 1 C= -2.10 XC= 0.00 BS= 0/8926 TC= 9
A= 382 pD= 0 SR=17.430 RA50= 42.04 DEC50= 15.03 cone= 90.65 clock=278.49
117EU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8926
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 216 rD= 12

G1INCHEMIS06

DESIGN G1.0 brad : 6/12/1996 8:20: 3

FILE:P.G1INCHEMIS06

TARGET BODY : IO

MINI:m.G1INCHEMIS06

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 475:00:0

OBSERVATION:G1INCHEMIS06

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID:	G1INCHEMIS06-
		START TIME:	96-181/02:24:24.199

Activity ID: Orbit G1 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	G1A	Calendar Date	06/29/96	Week	26

Start	IEE+CDS 472:00:0	96-181/02:24:24.199	IEE+000/07:57:14.666
End	IEE+CDS 476:28:0	96-181/02:28:45.533	IEE+000/08:01:36.000
Duration	4:28:0	000/00:04:21.334	000/00:04:21.334

Top Label	G1INCHEMIS06-
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

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).

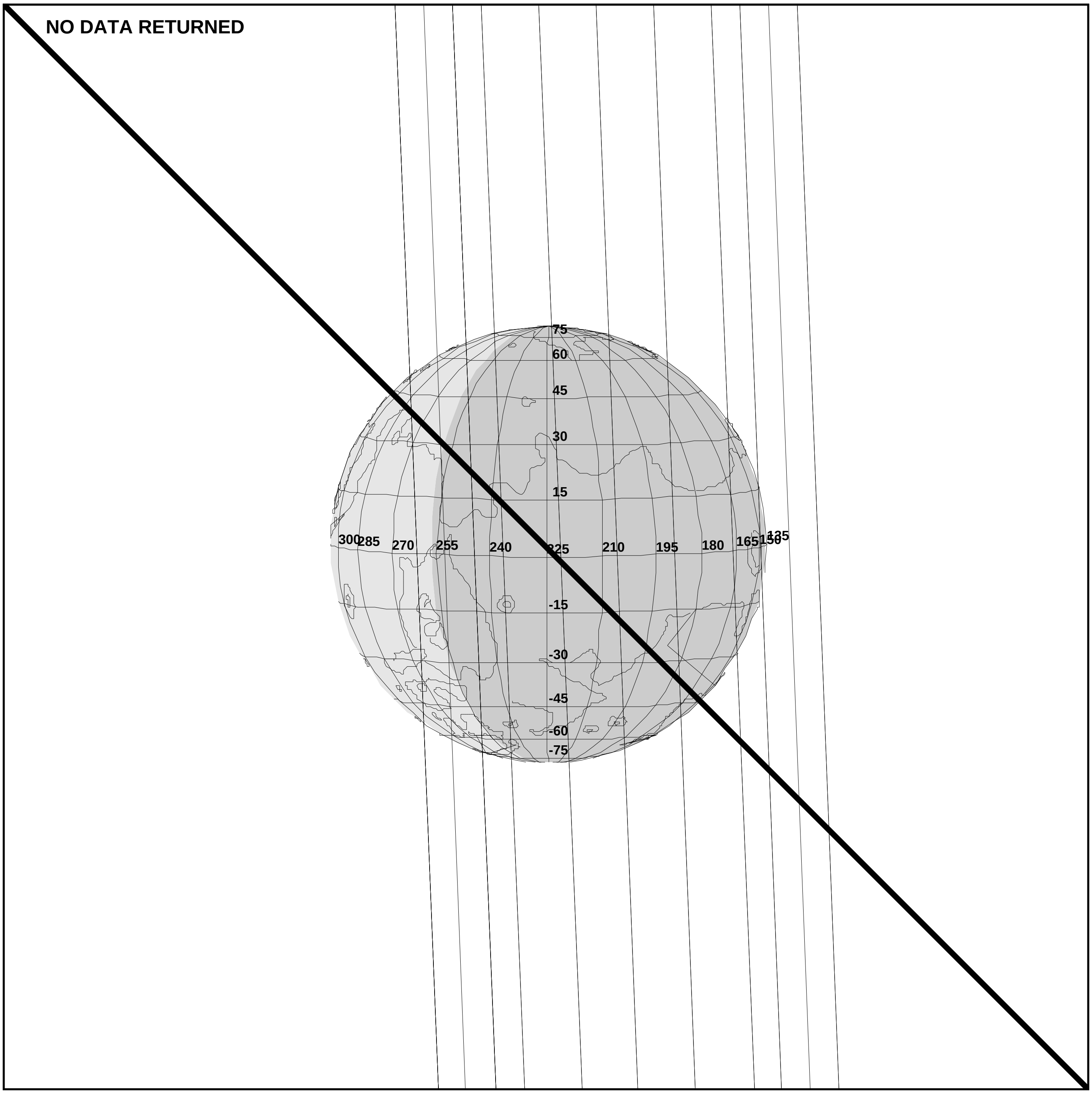
Processor Halted, No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Cone: 90 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102



165EV:TT= 0 TMC= 1 C= 2.10 XC= 0.00 BS= 0/9836 TC= 9
A= 364 pD= 0 SR=17.430 RA50= 41.78 DEC50= 14.99 cone= 90.91 clock=278.46
117EV:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/9836
1:#s= 1 Cs= -3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

G1INTHRMAL05

DESIGN G1.0 brad : 6/12/1996 8:35:57

FILE:P.G1INTHRMAL05

TARGET BODY : IO

MINI:m.G1INTHRMAL05

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 96-180/18:27:09.533 +CDS 480:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

OBSERVATION:G1INTHRMAL05

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO’S NIGHTSIDE ACTIVITY ID: G1INTHRMAL05-
START TIME: 96-181/02:29:27.533

Activity ID: Orbit G1 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 G1A Calendar Date 06/29/96 Week 26

Start	IEE+CDS 477:00:0	96-181/02:29:27.533	IEE+000/08:02:18.000
End	IEE+CDS 482:72:0	96-181/02:35:18.866	IEE+000/08:08:09.333
Duration	5:72:0	000/00:05:51.333	000/00:05:51.333

Top Label G1INTHERMAL05-
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

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.

Processor Halted, No Data Returned

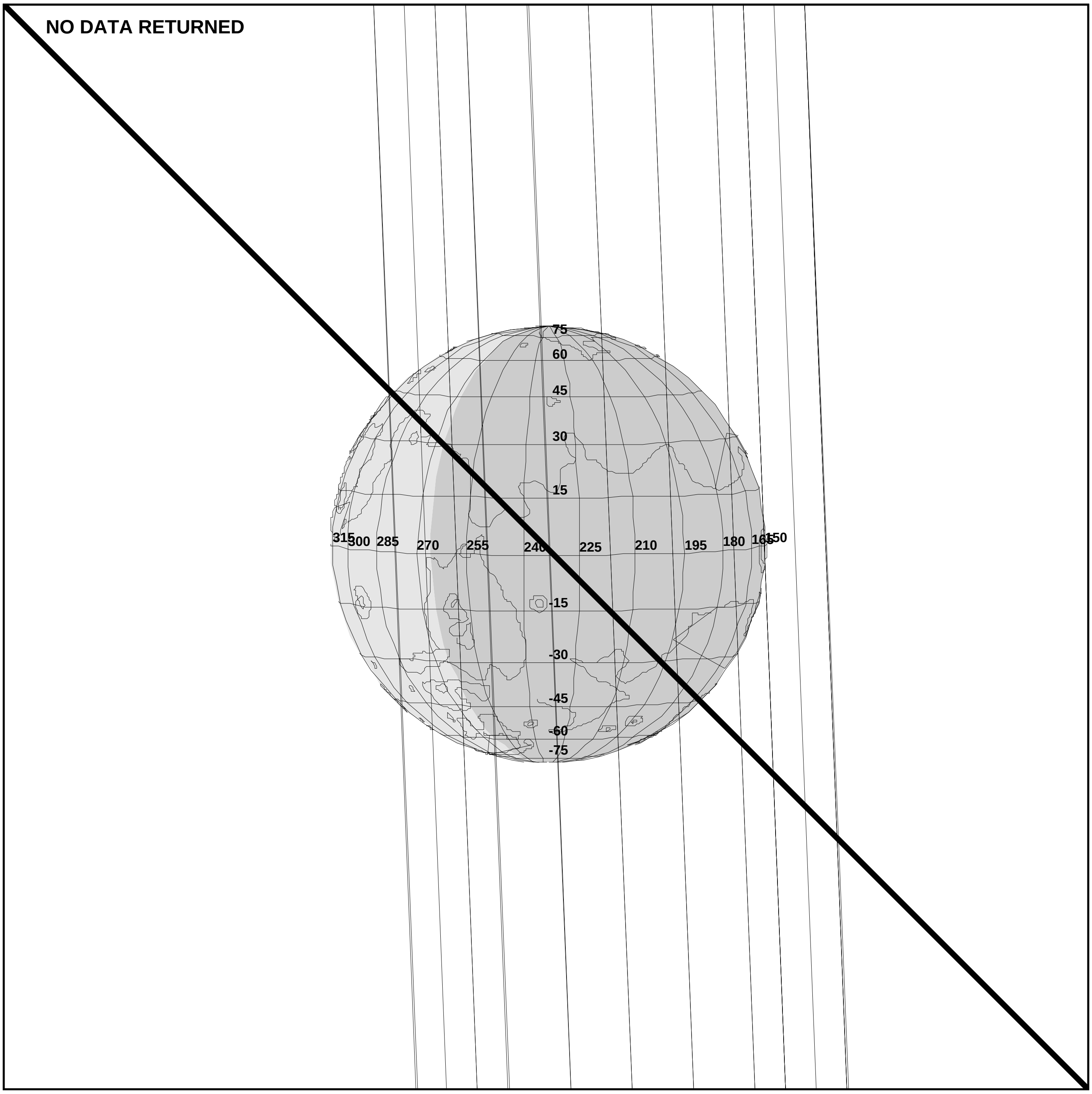
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are 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: Fixed Map,
Number of Wavelengths: 10,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Cone 90 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form 05/09/96 18:13:57 rev 6/95



165FU:TT= 0 TMC= 1 C= -1.00 XC= 0.00 BS= 0/1120 TC= 9
A= 728 pD= 0 SR=17.430 RA50= 41.96 DEC50= 15.33 cone= 90.65 clock=278.17
117FU:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/1120
1:#s= 1 Cs= 3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

G1INRCECLI01

DESIGN G1.0 brad : 6/12/1996 8:25:46

FILE:P.G1INRCECLI01

TARGET BODY : IO

MINI:m.G1INRCECLI01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 542:00:0

OBSERVATION:G1INRCECLI01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

Io Eclipse Recorded observation		ACTIVITY ID:	G1INRCECLI01-
		START TIME:	96-181/03:31:08.199

Activity ID: Orbit G1 Target I Inst N OAPEL RCECLI SeqNo 01 -

Title	Io Eclipse Recorded observation			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/29/96 Week 26

Start	IEE+CDS 538:00:0	96-181/03:31:08.199	IEE+000/09:03:58.666
End	IEE+CDS 543:00:0	96-181/03:36:11.533	IEE+000/09:09:02.000
Duration	5:00:0	000/00:05:03.334	000/00:05:03.334

Top Label G1INRCECLI01
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Observation of Io in eclipse in collaboration with SSI to map hot spots on the surface.

Processor Halted, No Data Returned

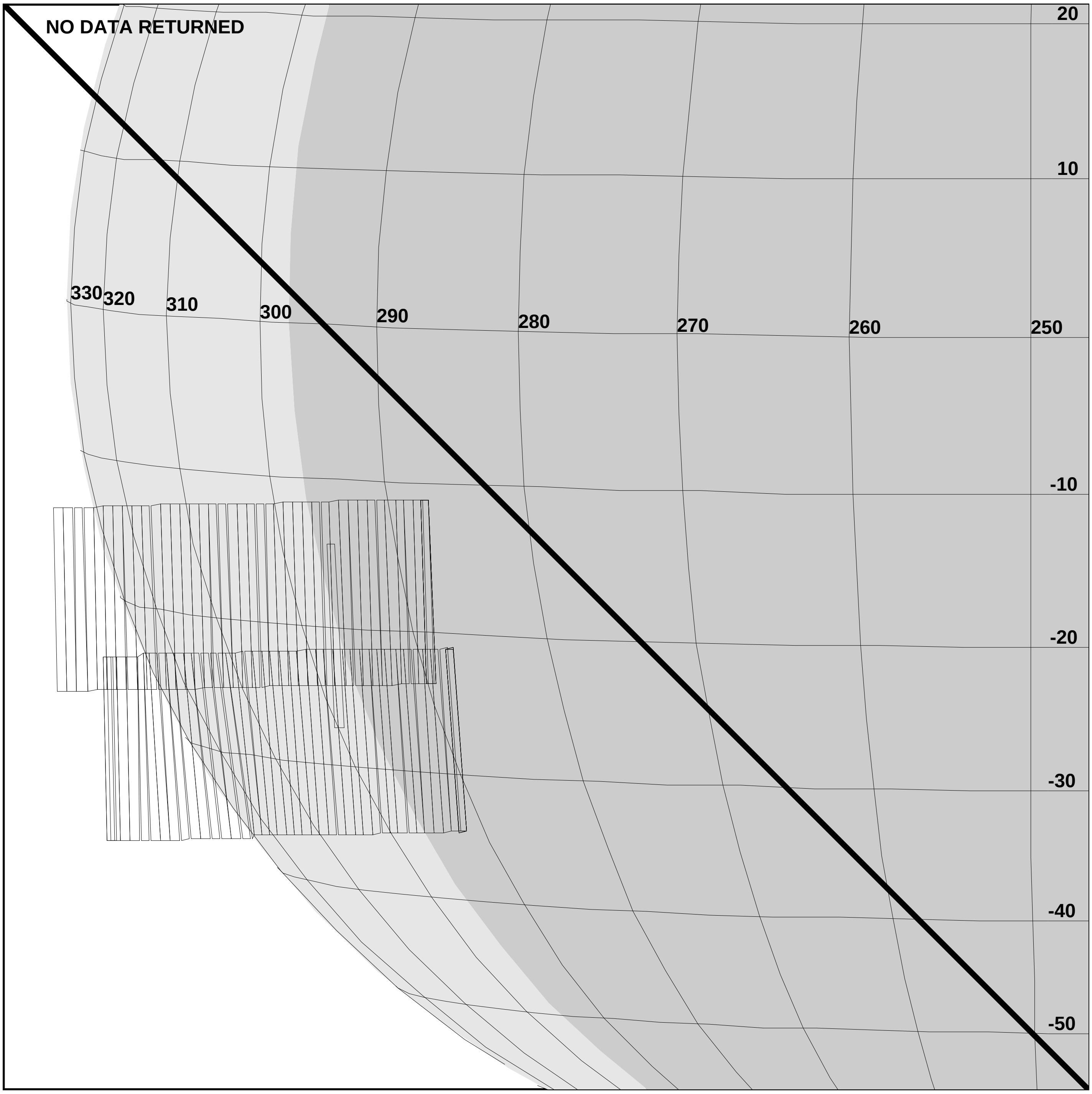
Design Detail

Just before SSI observation. Fixed map, 10 wavelengths.

Cone: 90 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form 05/09/96 18:13:57 rev 6/95



165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9310 TC= 2(71.72 277.8)
A= 364 pD= 0 SR=17.430 RA50= 61.24 DEC50= 19.96 cone= 71.72 clock=277.80
117EX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9310
1:#s= 2 Cs= 20.00 XCs= 0.00 Cr= -19.00 XCr= 8.00 sD= 642 rD= 42

G1JNGRS14101

DESIGN G1.0 clee : 5/23/1996 9:37:17

FILE:P.G1JNGRS14101

CENTRAL BODY:JUPITER III

MINI:m.G1JNGRS14101

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 1651:00:0

OBSERVATION:G1JNGRS14101

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

DESCRIP:GRS PHASE 141 #1

GRS 141 Phase #1	ACTIVITY ID: G1JNGRS14101- START TIME: 96-181/04:18:39.599

Activity ID: Orbit G1 Target J Inst N OAPEL GRS141 SeqNo 01 -

Title	GRS 141 Phase #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS   Load ID G1A   Calendar Date 06/29/96   Week 26

Start	JEE+CDS 1649:00:0	96-181/04:18:39.599	JEE+001/03:47:19.333
End	JEE+CDS 1658:82:0	96-181/04:28:40.266	JEE+001/03:57:20.000
Duration	9:82:0	000/00:10:00.667	000/00:10:00.667

Top Label G1JNGRS14101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	187	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

141 degrees phase observation of GRS. Near morning limb. First of 2 observations acquired on this rotation. 15 wavelengths acquired using wavelength table JFT15A.

Processor Halted, No Data Returned

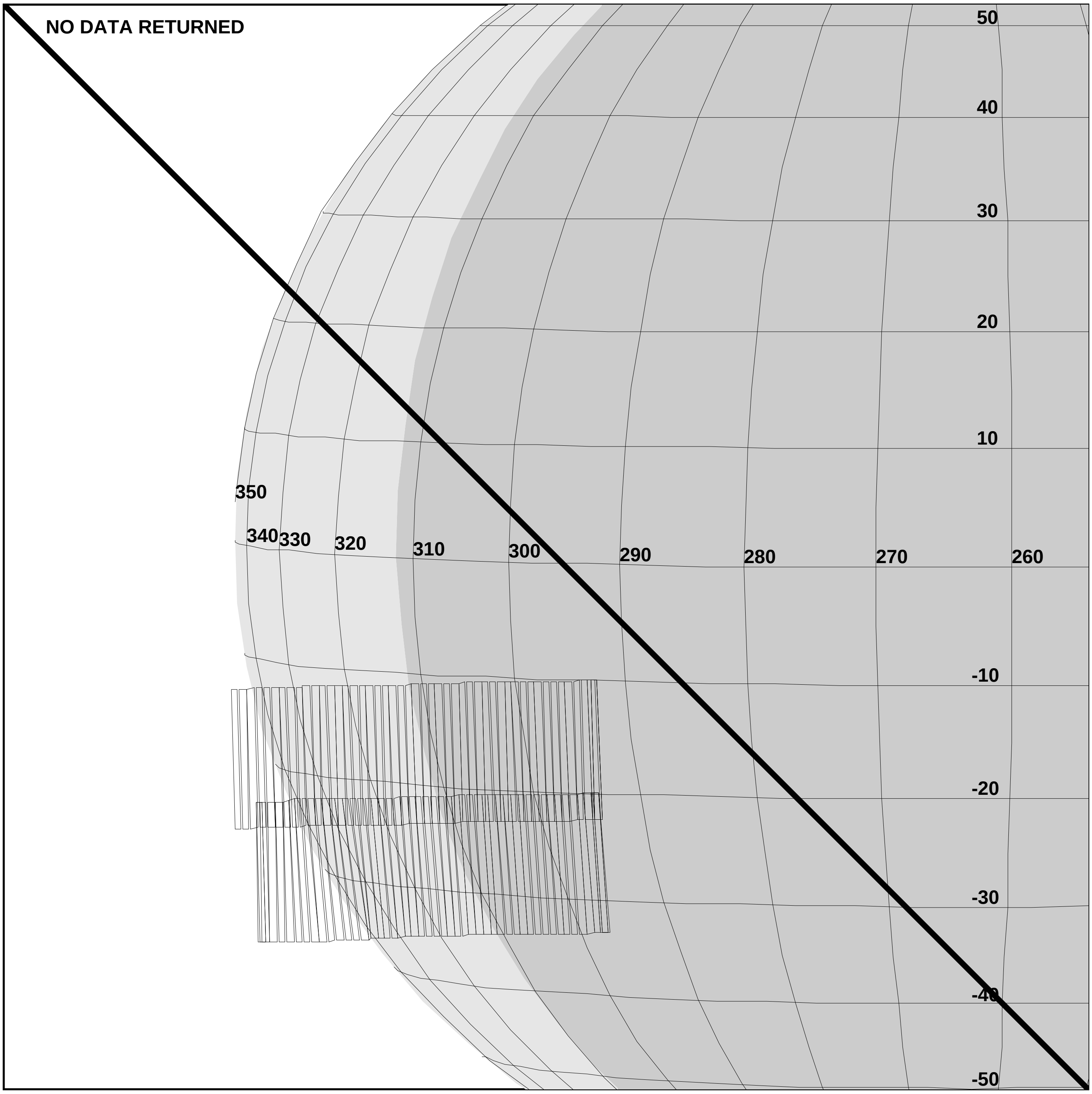
Design Detail

Approximately 2*2 (~18 mrads N/S by ~20 mrads E/W) shortmap of Great Red Spot. 2 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 364 seconds, accumulating 0.265 MBTG in 15 colors using 0.0122 tracks.

Cone: 72 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A

Galileo Activity Plan Form   05/09/96 18:13:57   rev 6/95



165EY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3678 TC= 2(71.15 277.7)
A= 364 pD= 0 SR=17.430 RA50= 61.82 DEC50= 20.15 cone= 71.15 clock=277.70
117EY:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/3678
1:#s= 2 Cs= 26.00 XCs= 0.00 Cr= -26.00 XCr= 8.00 sD= 690 rD= 36

G1JNGRS14102

DESIGN G1.0 clee : 5/23/1996 9:42:53

FILE:P.G1JNGRS14102

CENTRAL BODY:JUPITER III

MINI:m.G1JNGRS14102

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 1675:00:0

OBSERVATION:G1JNGRS14102

THINNING:NIM 2

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

DESCRIP:GRS PHASE 141 #2

GRS 141 Phase #2 — ACTIVITY ID: G1JNGRS14102- — START TIME: 96-181/04:42:55.599

Activity ID: Orbit G1 Target J Inst N OAPEL GRS141 SeqNo 02 -

Title	GRS 141 Phase #2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/29/96 Week 26

Start	JEE+CDS 1673:00:0	96-181/04:42:55.599	JEE+001/04:11:35.333
End	JEE+CDS 1682:82:0	96-181/04:52:56.266	JEE+001/04:21:36.000
Duration	9:82:0	000/00:10:00.667	000/00:10:00.667

Top Label G1JNGRS14102-
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

141 degrees phase observation of GRS near terminator. Second of two GRS observations acquired on this rotation. 15 wavelengths acquired using wavelength table JFT15A.

Processor Halted, No Data Returned

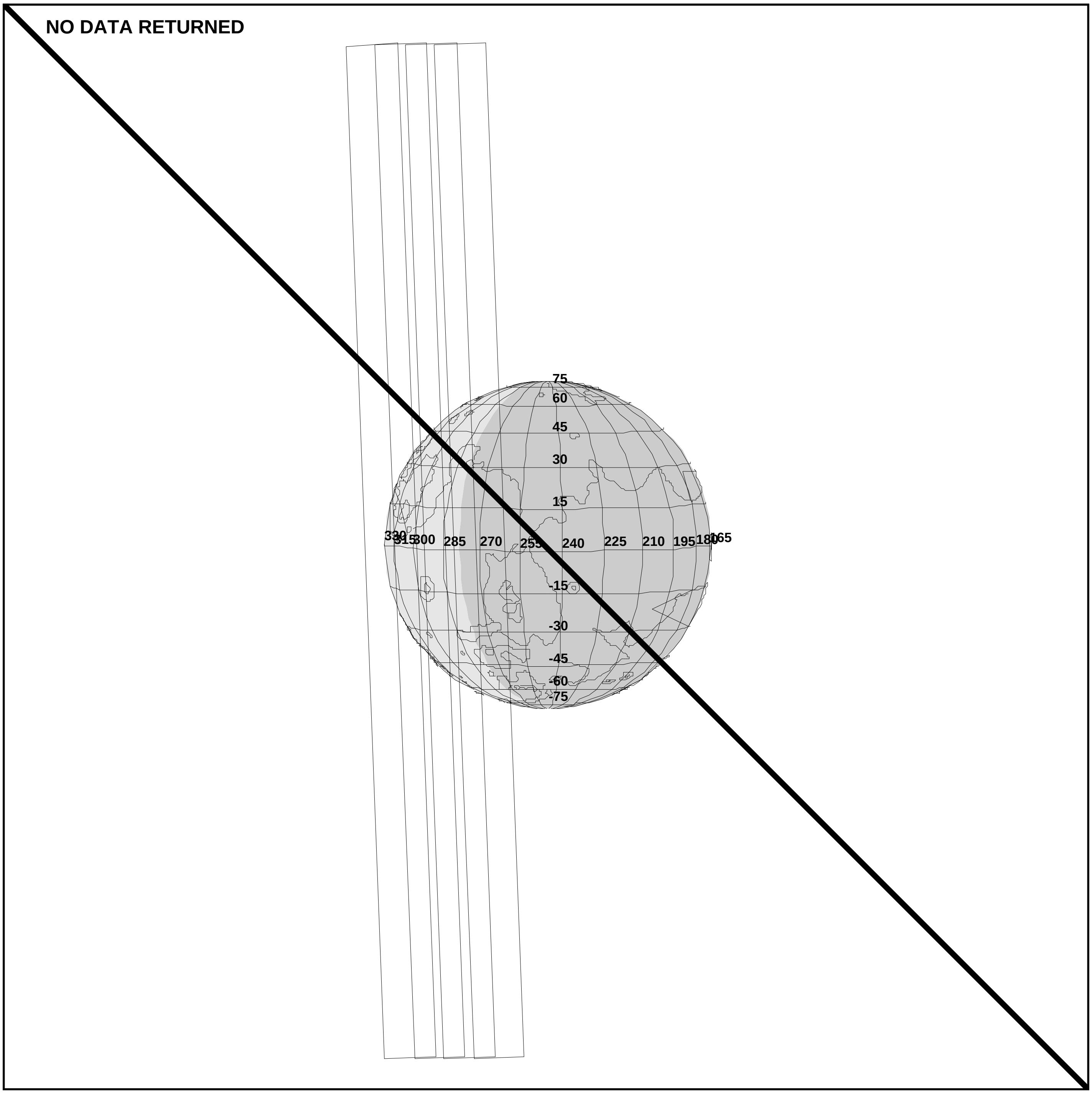
Design Detail

Approximately 2*2 (~18 mrads N/S by ~30 mrads E/W) shortmap of Great Red Spot. 2 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 364 seconds, accumulating 0.265 MBTG in 15 colors using 0.0122 tracks.

Cone: 72 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A

Galileo Activity Plan Form 05/09/96 18:13:57 rev 6/95



165FM:TT= 0 TMC= 1 C= -1.70 XC= 0.00 BS= 0/6954 TC= 9
A= 424 pD= 0 SR=17.430 RA50= 42.66 DEC50= 15.94 cone= 89.83 clock=277.78
117FM:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6954
1:#s= 1 Cs= 0.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 98 rD= 2

G1INCHEMIS08

DESIGN G1.0 brad : 6/12/1996 8:21:17

FILE:P.G1INCHEMIS08

TARGET BODY : IO

MINI:m.G1INCHEMIS08

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 629:00:0

OBSERVATION:G1INCHEMIS08

THINNING:NIM 1

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

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO’S DAYSIDE	ACTIVITY ID: G1INCHEMIS08-
	START TIME: 96-181/05:00:06.866

Activity ID: Orbit G1 Target I Inst N OAPEL CHEMIS SeqNo 08 -

Title	MONITORING OF IO’S DAYSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/29/96 Week 26

Start	IEE+CDS 626:00:0	96-181/05:00:06.866	IEE+000/10:32:57.333
End	IEE+CDS 630:03:0	96-181/05:04:11.533	IEE+000/10:37:02.000
Duration	4:03:0	000/00:04:04.667	000/00:04:04.667

Top Label G1INCHEMIS08-
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

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).

Processor Halted, No Data Returned

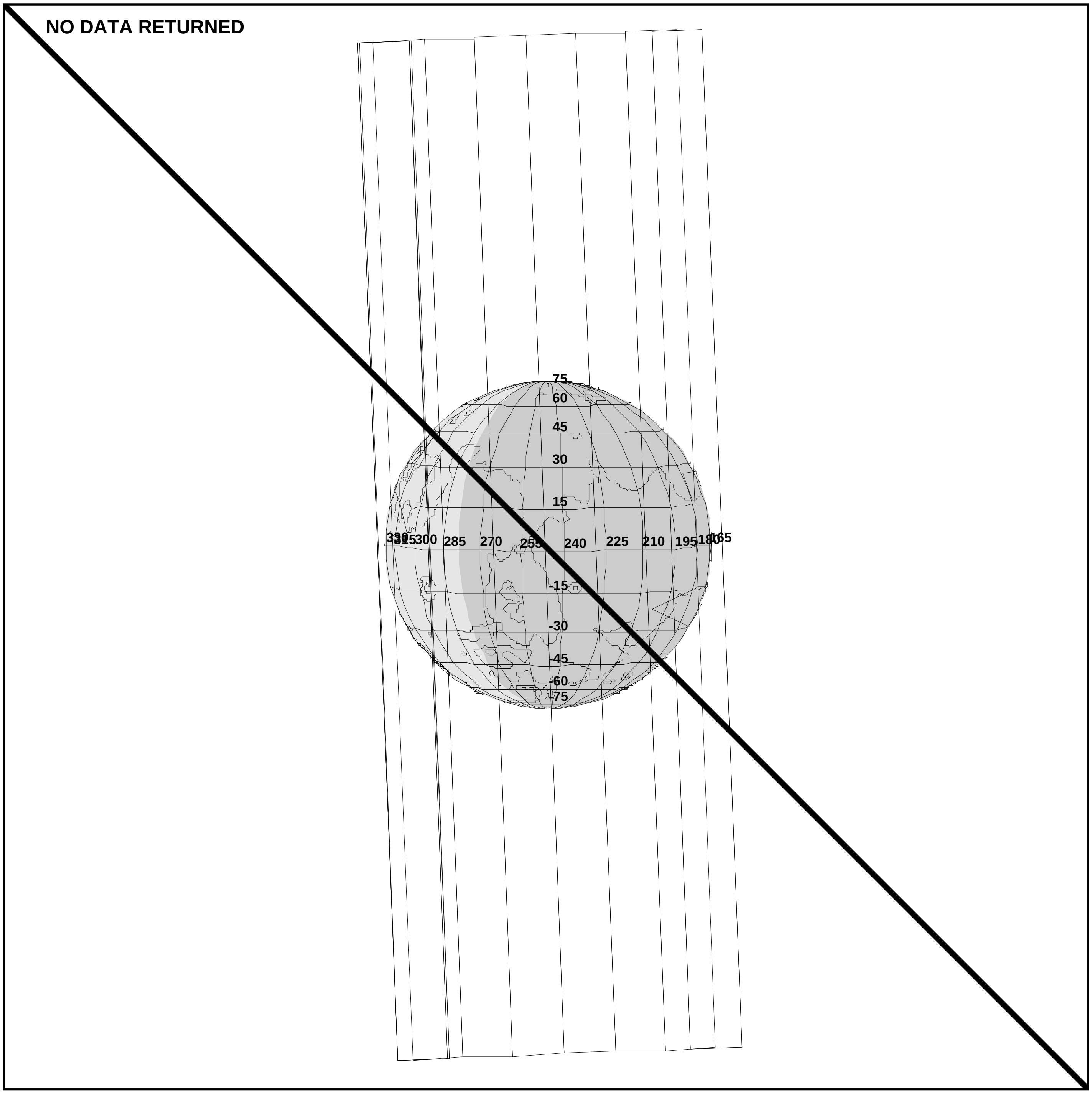
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
Long map, 228 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Cone: 89 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM228

Galileo Activity Plan Form 05/09/96 18:13:57 rev 6/95



165FN:TT= 0 TMC= 1 C= 1.45 XC= 0.00 BS= 0/7682 TC= 9
A= 242 pD= 0 SR=17.430 RA50= 42.53 DEC50= 15.92 cone= 89.96 clock=277.76
117FN:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7682
1:#s= 1 Cs= -2.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 22 rD= 12

G1INTHRMAL07

DESIGN G1.0 brad : 6/12/1996 8:36:52

FILE:P.G1INTHRMAL07

TARGET BODY : IO

MINI:m.G1INTHRMAL07

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 633:00:0

OBSERVATION:G1INTHRMAL07

THINNING:NIM 2

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

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO’S NIGHTSIDE	ACTIVITY ID: G1INTHRMAL07- START TIME: 96-181/05:05:10.199

Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 07 -

Title	MONITORING OF IO’S NIGHTSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/29/96 Week 26

Start	IEE+CDS 631:00:0	96-181/05:05:10.199	IEE+000/10:38:00.666
End	IEE+CDS 633:36:0	96-181/05:07:35.533	IEE+000/10:40:26.000
Duration	2:36:0	000/00:02:25.334	000/00:02:25.334

Top Label G1INTHERMAL07-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	174	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.

Processor Halted, No Data Returned

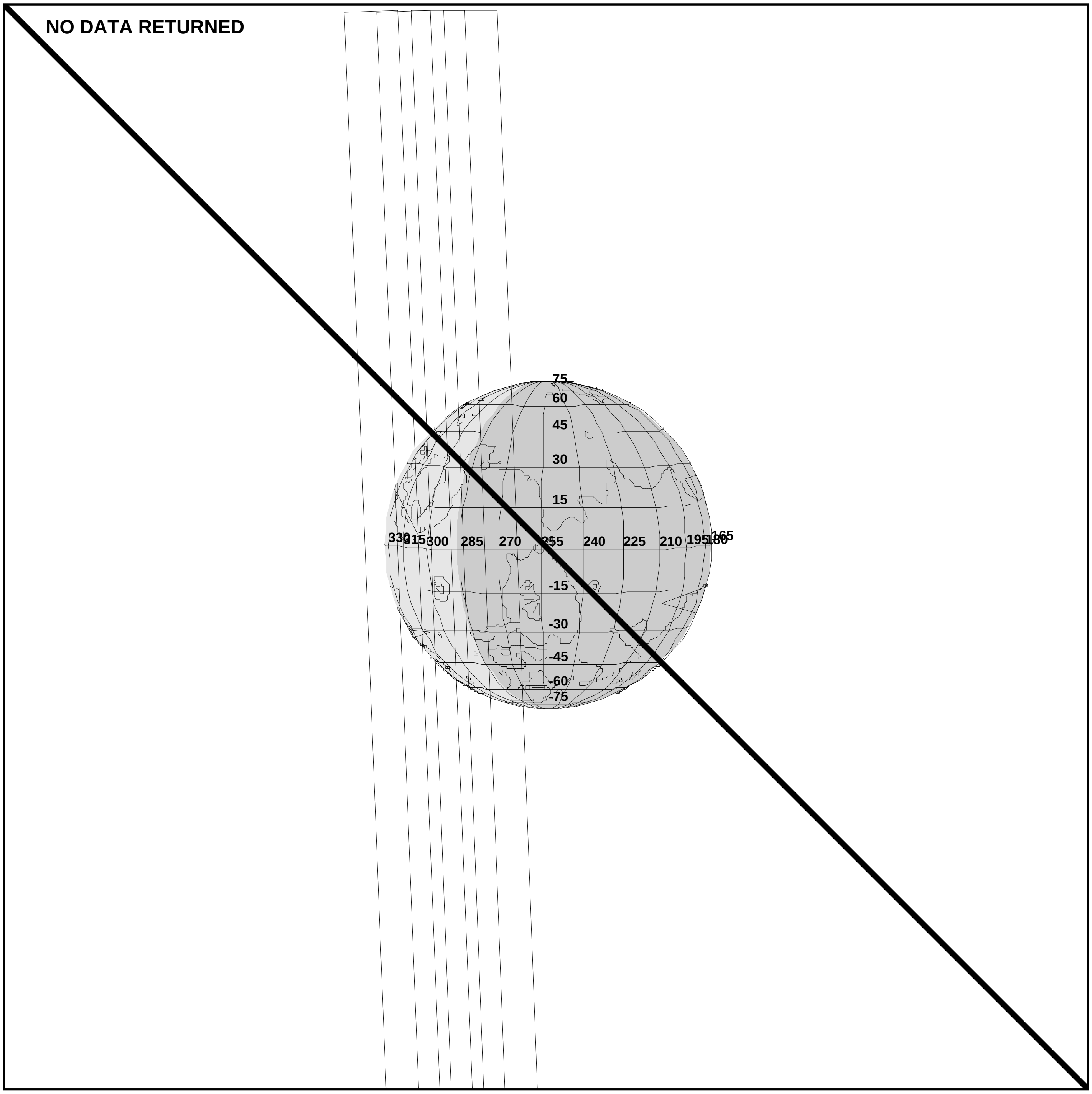
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are 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: Fixed Map,
Number of Wavelengths: 10,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Cone: 89 degrees.

Fixed Map (XM), Gain 4, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form 05/09/96 18:13:57 rev 6/95



165FO:TT= 0 TMC= 1 C= -1.60 XC= 0.00 BS= 0/7692 TC= 9
A= 424 pD= 0 SR=17.430 RA50= 43.51 DEC50= 16.43 cone= 88.92 clock=277.52
117FO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7692
1:#s= 1 Cs= 0.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 98 rD= 2

G1INCHEMIS09

DESIGN G1.0 brad : 6/12/1996 8:23:28

FILE:P.G1INCHEMIS09

TARGET BODY : IO

MINI:m.G1INCHEMIS09

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 688:00:0

OBSERVATION:G1INCHEMIS09

THINNING:NIM 1

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

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE — **ACTIVITY ID:** G1INCHEMIS09-
START TIME: 96-181/05:59:46.199

Activity ID: Orbit G1 Target I Inst N OAPEL CHEMIS SeqNo 09 -

Title	MONITORING OF IO'S DAYSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/29/96 Week 26

Start	IEE+CDS 685:00:0	96-181/05:59:46.199	IEE+000/11:32:36.666
End	IEE+CDS 689:03:0	96-181/06:03:50.866	IEE+000/11:36:41.333
Duration	4:03:0	000/00:04:04.667	000/00:04:04.667

Top Label G1INCHEMIS09-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	171	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).

Processor Halted, No Data Returned

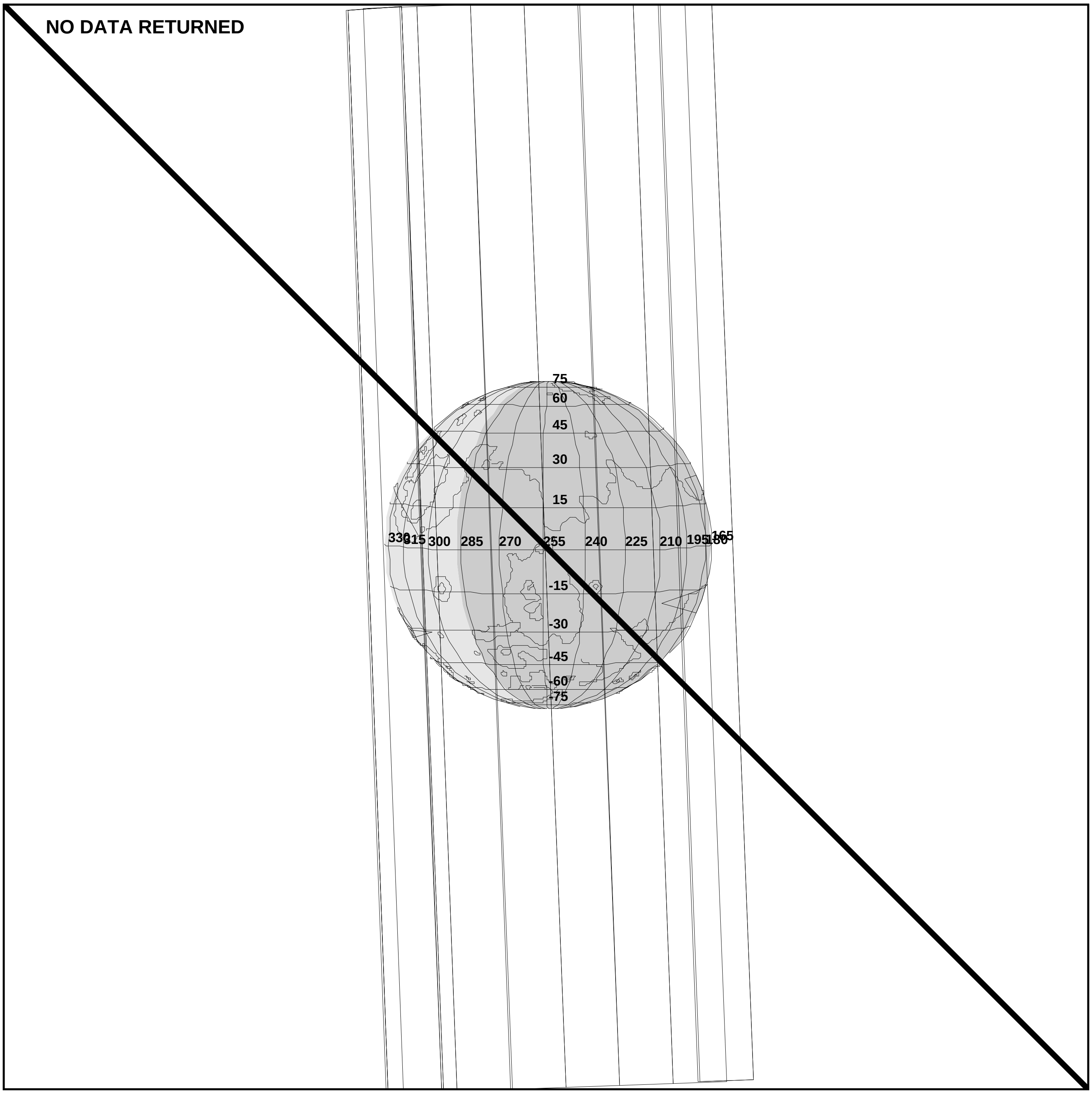
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
Long map, 228 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Cone: 88 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM228

Galileo Activity Plan Form 05/09/96 18:13:57 rev 6/95



165FP:TT= 0 TMC= 1 C= 1.45 XC= 0.00 BS= 0/8420 TC= 9
A= 242 pD= 0 SR=17.430 RA50= 43.40 DEC50= 16.42 cone= 89.02 clock=277.50
117FP:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/8420
1:#s= 1 Cs= -2.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 22 rD= 12

G1INTHRMAL08

DESIGN G1.0 brad : 6/12/1996 8:37:16

FILE:P.G1INTHRMAL08

TARGET BODY : IO

MINI:m.G1INTHRMAL08

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 692:00:0

OBSERVATION:G1INTHRMAL08

THINNING:NIM 2

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

DESCRIP:MONITORING OF IOs NIGHTSIDE

MONITORING OF IO’S NIGHTSIDE	ACTIVITY ID: G1INTHRMAL08- START TIME: 96-181/06:04:49.533

Activity ID: Orbit G1 Target I Inst N OAPEL THRMAL SeqNo 08 -

Title	MONITORING OF IO’S NIGHTSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1A	Calendar Date	06/29/96	Week	26

Start	IEE+CDS 690:00:0	96-181/06:04:49.533	IEE+000/11:37:40.000
End	IEE+CDS 692:36:0	96-181/06:07:14.866	IEE+000/11:40:05.333
Duration	2:36:0	000/00:02:25.333	000/00:02:25.333

Top Label G1INTHERMAL08-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	174	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.

Processor Halted, No Data Returned

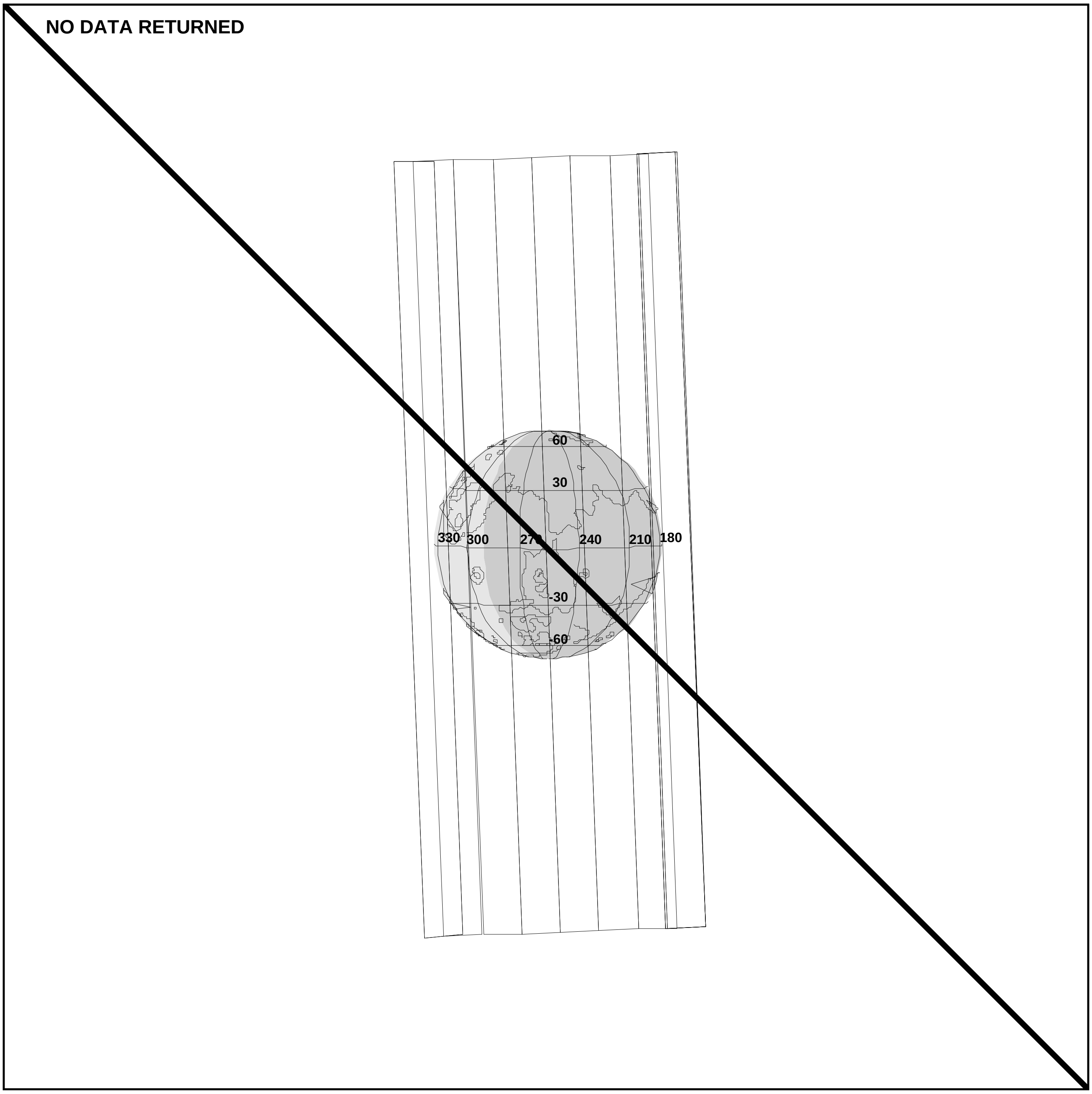
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are 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: Fixed Map,
Number of Wavelengths: 10,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Cone: 88 degrees.

Fixed Map (XM), Gain 4, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form 05/09/96 18:13:57 rev 6/95



165EZ:TT= 0 TMC= 1 C= -1.55 XC= 0.00 BS= 0/1696 TC= 3
A= 364 pD= 0 SR=17.430 RA50= 43.89 DEC50= 16.63 cone= 88.51 clock=277.43
117EZ:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/1696
1:#s= 1 Cs= 3.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

G1INVOLCAN03

DESIGN G1.0 brad : 6/12/1996 8:38:47

FILE:P.G1INVOLCAN03

TARGET BODY : IO

MINI:m.G1INVOLCAN03

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 96-180/18:27:09.533 +CDS 710:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.210

OBSERVATION:G1INVOLCAN03

DESCRIP:monitor volcanic regions

MONITORING OF SELECTED VOLCANIC REGIONS	ACTIVITY ID:	G1INVOLCAN03-
	START TIME:	96-181/06:23:01.533

Activity ID: Orbit G1 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	G1A	Calendar Date	06/29/96	Week	26

Start	IEE+CDS 708:00:0	96-181/06:23:01.533	IEE+000/11:55:52.000
End	IEE+CDS 711:49:0	96-181/06:26:36.199	IEE+000/11:59:26.666
Duration	3:49:0	000/00:03:34.666	000/00:03:34.666

Top Label	G1INVOLCAN03-
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

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

Processor Halted, No Data Returned

Design Detail

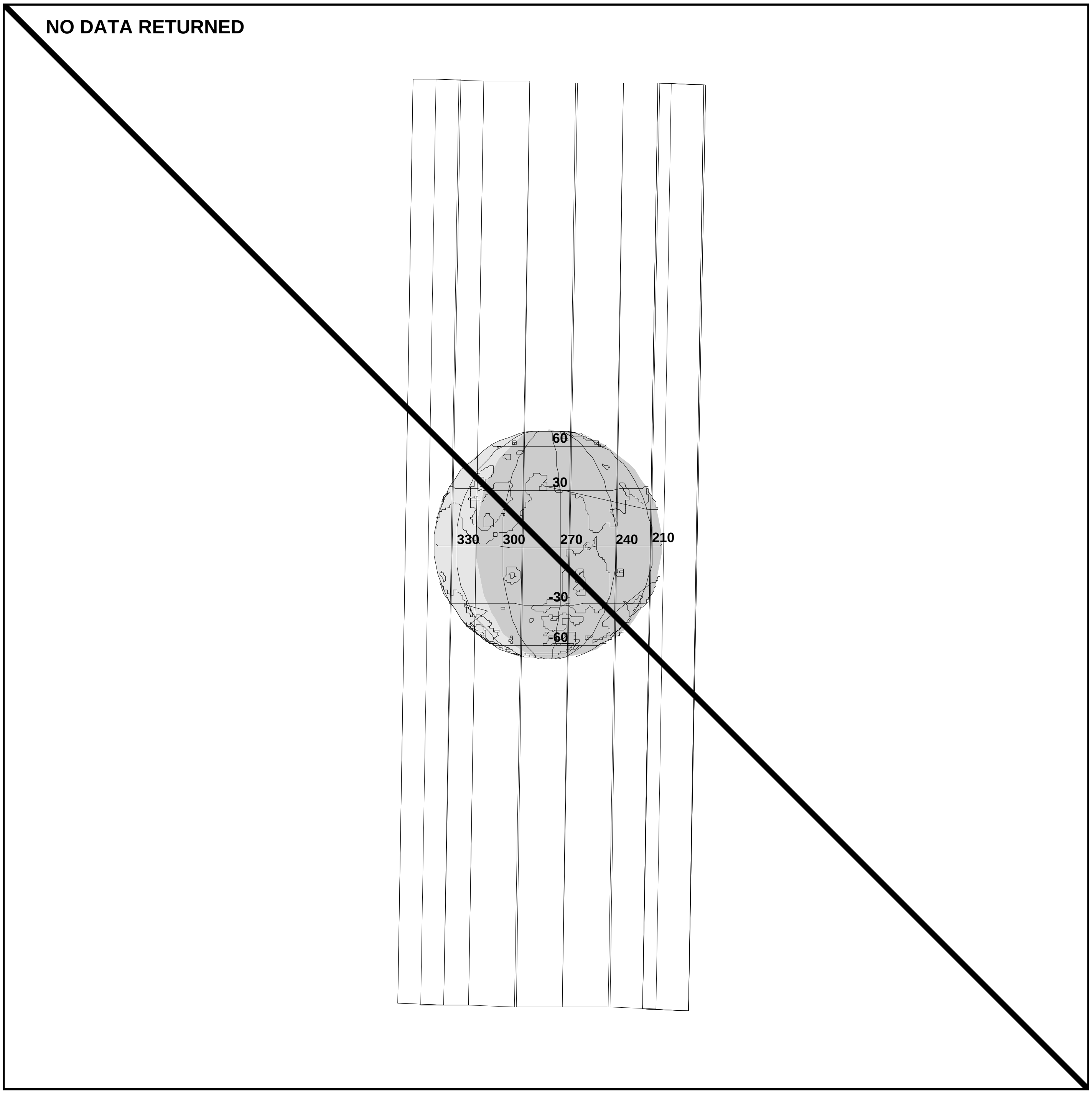
Fixed Map, 10 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~5 observations per orbit.
Tracks: 0.005 per observation.

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

Cone: 88 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form   05/09/96 18:13:58   rev 6/95



165FB:TT= 0 TMC= 1 C= -1.30 XC= 0.00 BS= 0/4092 TC= 3
A= 364 pD= 0 SR=17.430 RA50= 48.26 DEC50= 18.44 cone= 55.80 clock=271.09
117FB:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/4092
1:#s= 1 Cs= 2.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 20 rD= 2

G1INVOLCAN02

DESIGN G1.0 brad : 6/12/1996 8:38:14

FILE:P.G1INVOLCAN02

TARGET BODY : IO

MINI:m.G1INVOLCAN02

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 888:00:0

OBSERVATION:G1INVOLCAN02

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.210

DESCRIP:monitor volcanic regions

MONITORING OF SELECTED VOLCANIC REGIONS **ACTIVITY ID: G1INVOLCAN02-**
START TIME: 96-181/09:23:00.199

Activity ID: Orbit G1 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	G1A	Calendar Date	06/29/96	Week	26

Start	IEE+CDS 886:00:0	96-181/09:23:00.199	IEE+000/14:55:50.666
End	IEE+CDS 890:48:0	96-181/09:27:34.866	IEE+000/15:00:25.333
Duration	4:48:0	000/00:04:34.667	000/00:04:34.667

Top Label G1INVOLCAN02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	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.

Processor Halted, No Data Returned

Design Detail

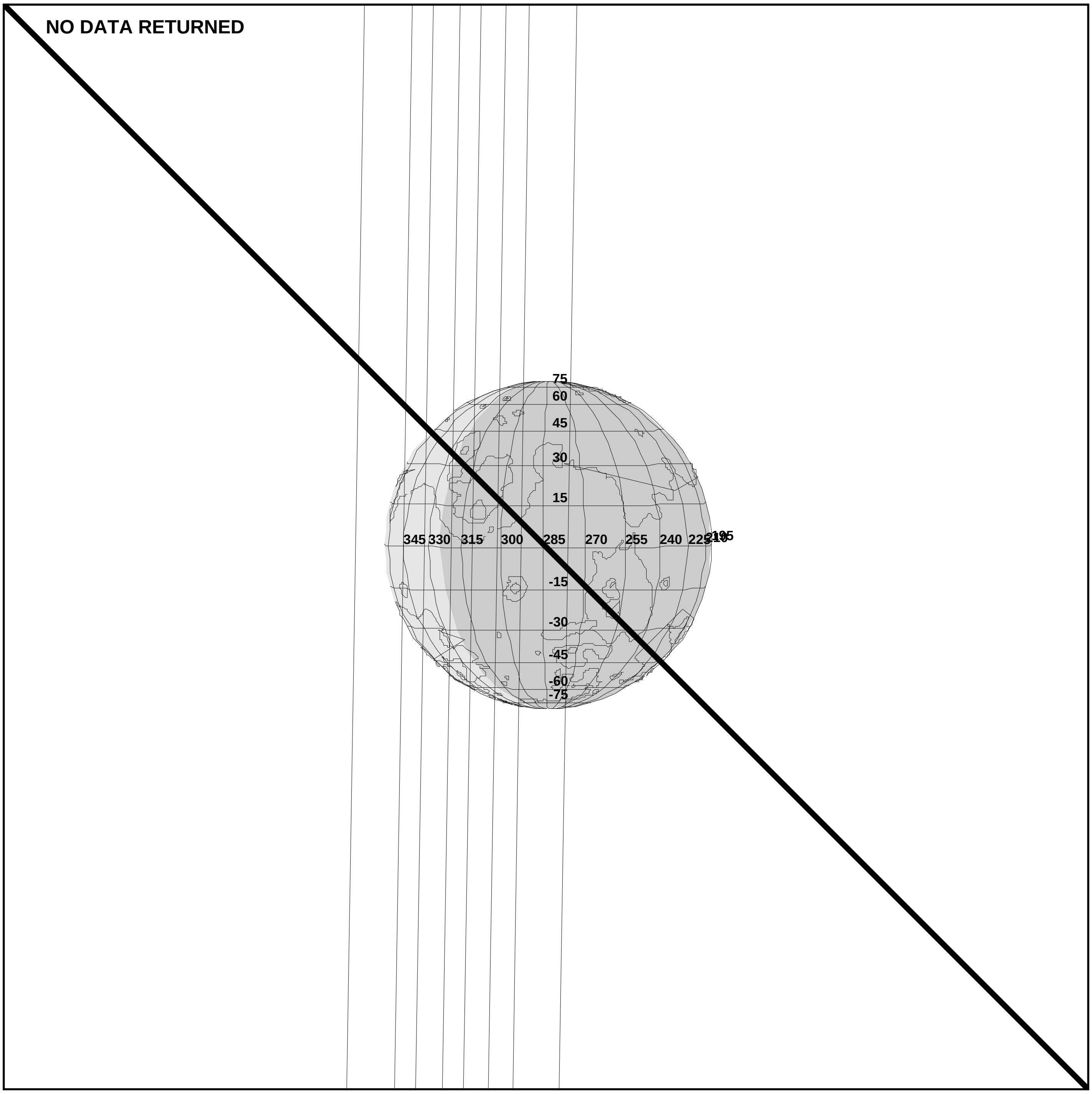
Fixed Map, 10 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~5 observations per orbit.
Tracks: 0.005 per observation.

Locations of features:

Kanehekili	(-10 d. lat, +40 d. long)
Pelee	(-20 d. lat, -255 d. long)
Loki	(+12 d. lat, 310 d. long)

Cone: 55 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10



165FC:TT= 0 TMC= 1 C= -1.30 XC= 0.00 BS= 0/5558 TC= 9
A= 424 pD= 0 SR=17.430 RA50= 50.24 DEC50= 19.12 cone= 53.81 clock=270.95
117FC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5558
1:#s= 1 Cs= 0.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 98 rD= 2

G1INCHEMIS07

DESIGN G1.0 brad : 6/12/1996 8:20:46

FILE:P.G1INCHEMIS07

TARGET BODY : IO

MINI:m.G1INCHEMIS07

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 951:00:0

OBSERVATION:G1INCHEMIS07

THINNING:NIM 1

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

DESCRIP:MONITORING OF IOs DAYSIDE

MONITORING OF IO'S DAYSIDE

ACTIVITY ID: G1INCHEMIS07-
START TIME: 96-181/10:25:41.533

Activity ID: Orbit G1 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 G1A Calendar Date 06/29/96 Week 26

Start	IEE+CDS 948:00:0	96-181/10:25:41.533	IEE+000/15:58:32.000
End	IEE+CDS 951:84:0	96-181/10:29:39.533	IEE+000/16:02:30.000
Duration	3:84:0	000/00:03:58.000	000/00:03:58.000

Top Label G1INCHEMIS07-
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

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).

Processor Halted, No Data Returned

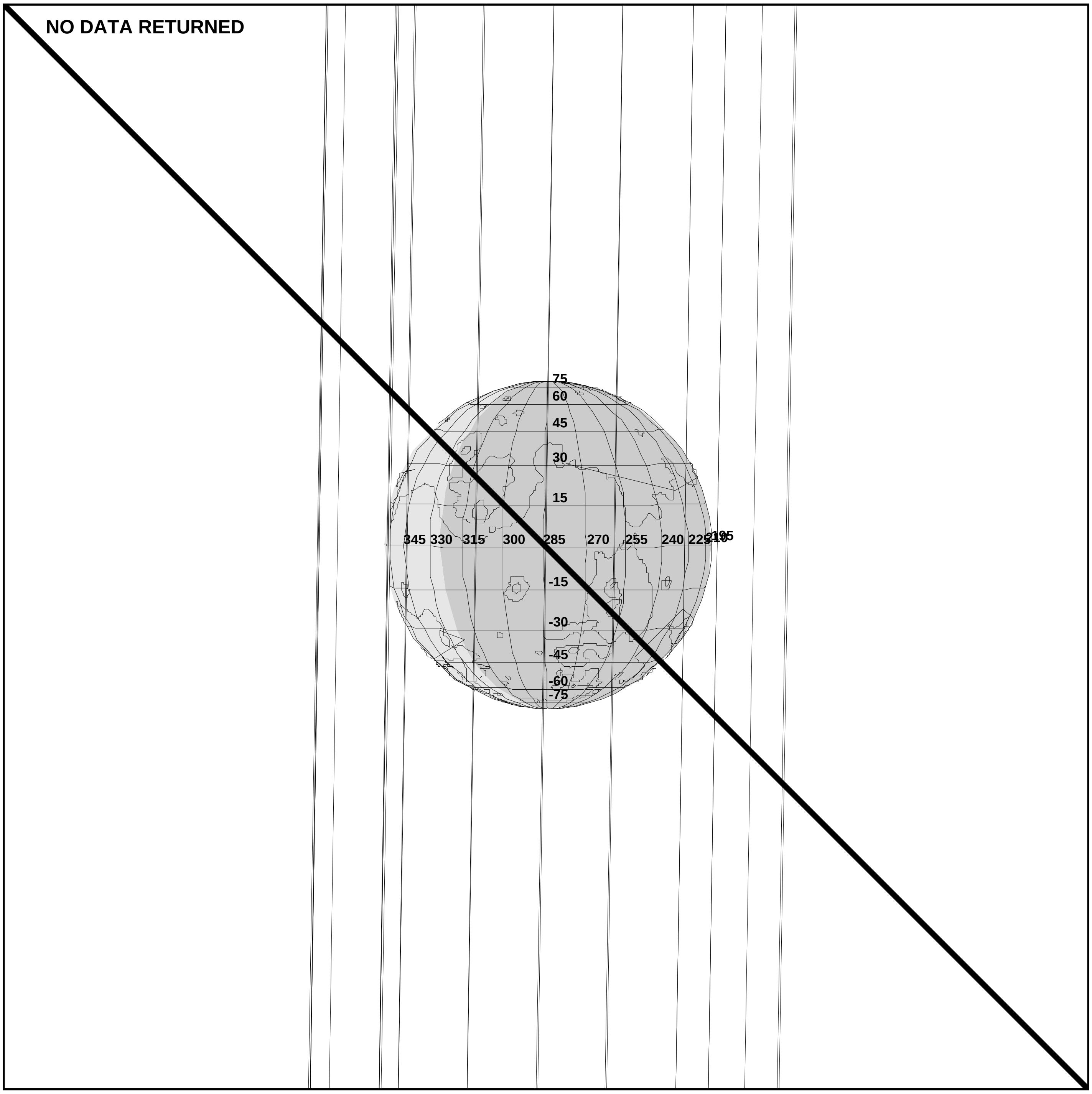
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
Long map, 102 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Cone: 53 degrees.

Long Map (LM), Gain 2, Grating Start 0, LPU, G1ILM245, G1ILM102

Galileo Activity Plan Form 05/09/96 18:13:58 rev 6/95



165FQ:TT= 0 TMC= 1 C= 1.45 XC= 0.00 BS= 0/6286 TC= 9
A= 242 pD= 0 SR=17.430 RA50= 50.21 DEC50= 19.11 cone= 53.84 clock=270.94
117FQ:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6286
1:#s= 1 Cs= -2.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 22 rD= 12

G1INTHRMAL06

DESIGN G1.0 brad : 6/12/1996 8:36:26

FILE:P.G1INTHRMAL06

TARGET BODY : IO

MINI:m.G1INTHRMAL06

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-180/18:27:09.533 +CDS 955:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:G1INTHRMAL06 **DESCRIP:MONITORING OF IOs NIGHTSIDE**

MONITORING OF IO'S NIGHTSIDE — **ACTIVITY ID:** G1INTHRMAL06- **START TIME:** 96-181/10:30:44.866

Activity ID: Orbit G1 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	G1A	Calendar Date	06/29/96	Week	26

Start	IEE+CDS 953:00:0	96-181/10:30:44.866	IEE+000/16:03:35.333
End	IEE+CDS 957:11:0	96-181/10:34:54.866	IEE+000/16:07:45.333
Duration	4:11:0	000/00:04:10.000	000/00:04:10.000

Top Label	G1INTHERMAL06-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	174	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.

Processor Halted, No Data Returned

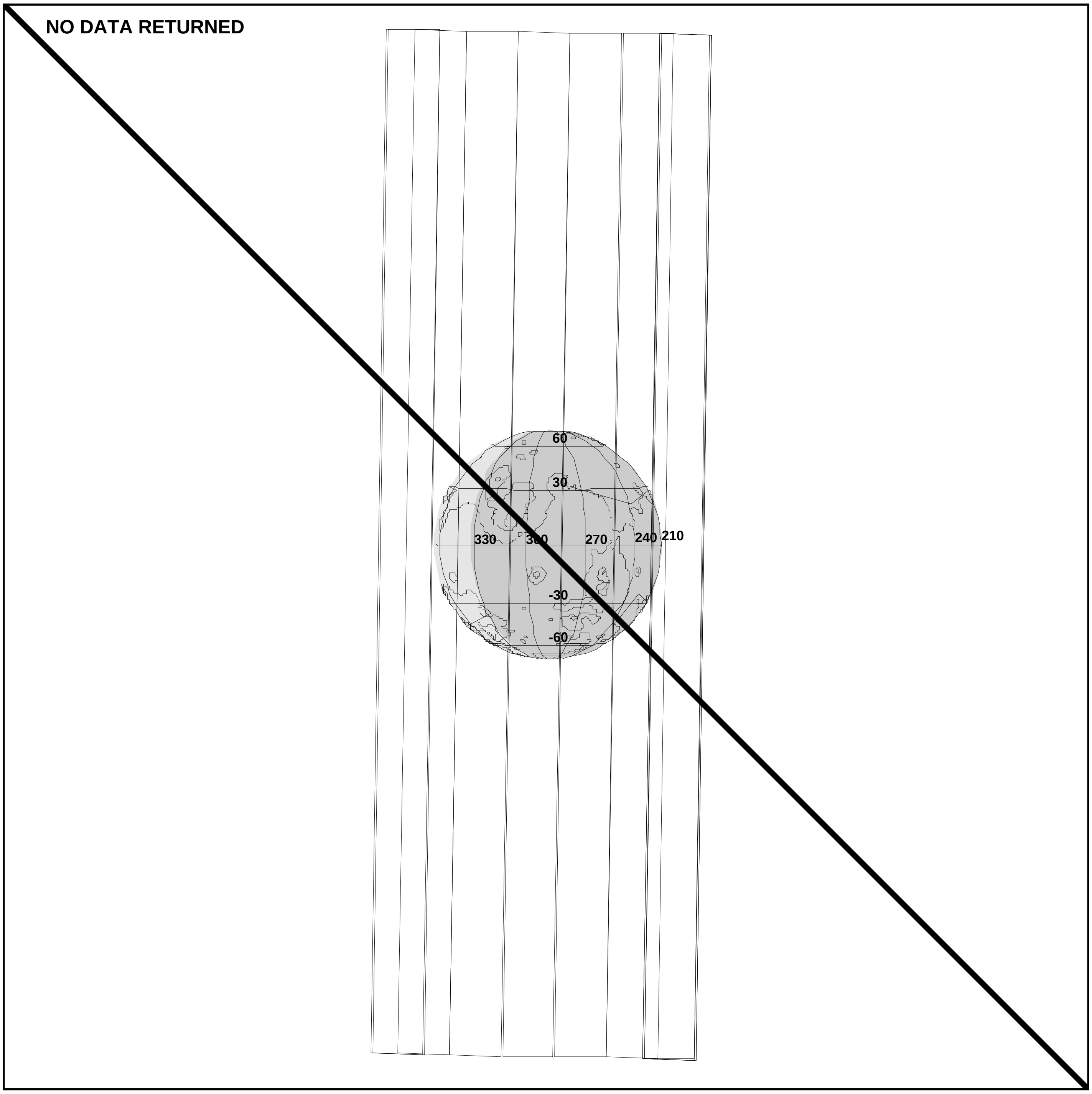
Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are 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: Fixed Map,
Number of Wavelengths: 10,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Cone: 53 degrees.

Fixed Map (XM), Gain 4, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form   05/09/96 18:13:58   rev 6/95



165FE:TT= 0 TMC= 1 C= -1.40 XC= 0.00 BS= 0/5568 TC= 3
A= 364 pD= 0 SR=17.430 RA50= 52.10 DEC50= 19.71 cone= 51.95 clock=270.84
117FE:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/5568
1:#s= 1 Cs= 2.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 20 rD= 2

G1INVOLCAN01

DESIGN G1.0 brad : 6/12/1996 8:37:51

FILE:P.G1INVOLCAN01

TARGET BODY : IO

MINI:m.G1INVOLCAN01

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 1006:00:0

OBSERVATION:G1INVOLCAN01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.210

DESCRIP:monitor volcanic regions

```
MONITORING OF SELECTED VOLCANIC REGIONS  ACTIVITY ID:   G1INVOLCAN01-
                                          START TIME:   96-181/11:22:18.866

Activity ID: Orbit G1  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  G1A     Calendar Date  06/29/96  Week  26

Start        IEE+CDS 1004:00:0     96-181/11:22:18.866   IEE+000/16:55:09.333
End          IEE+CDS 1007:00:0     96-181/11:25:20.866   IEE+000/16:58:11.333
Duration                3:00:0        000/00:03:02.000       000/00:03:02.000

Top Label    G1INVOLCAN01-
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

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

Processor Halted, No Data Returned

Design Detail

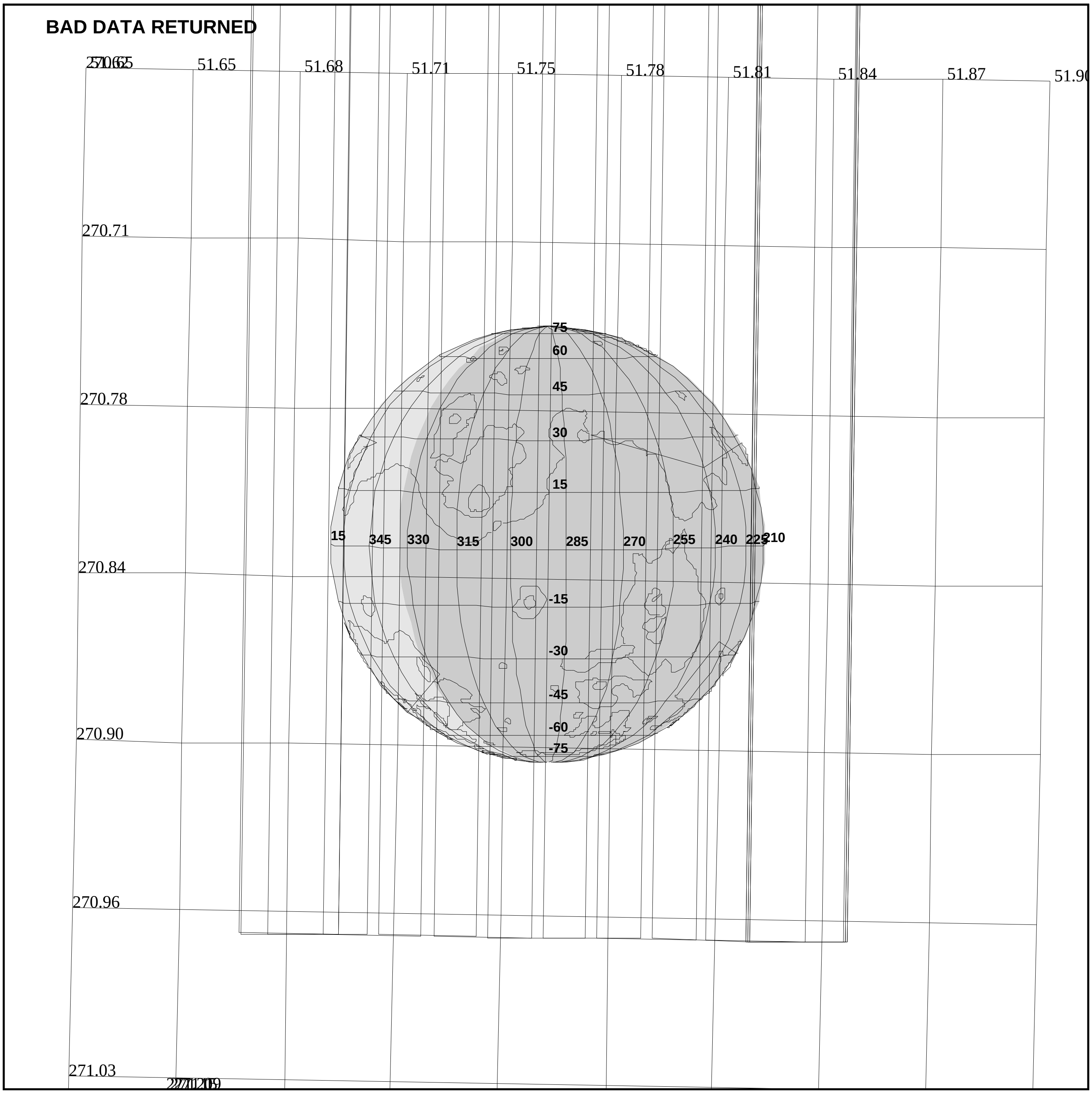
Fixed Map, 10 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~5 observations per orbit.
Tracks: 0.005 per observation.

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

Cone: 52 degrees.

Fixed Map (XM), Gain 2, Grating Start 21, LPU, G1IXM10, G1IXM10

Galileo Activity Plan Form   05/09/96 18:13:58   rev 6/95



165DX:TT= 0 TMC= 1 C= -1.30 XC= -3.00 BS= 0/7024 TC= 9
A= 728 pD= 0 SR=17.430 RA50= 52.33 DEC50= 19.96 cone= 51.68 clock=270.61
117DX:#SB= 1 OR= 0.400 RR=12.000 BM=F RC= 1 BS= 0/7024
1:#s= 1 Cs= 2.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 30 rD= 2

G1INIOMON_07

DESIGN G1.0 brad : 6/13/1996 9:55: 2

FILE:P.G1INIOMON_07

TARGET BODY : IO

MINI:m.G1INIOMON_07

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:IEE 96-180/18:27:09.533 +CDS 1014:00:0

OBSERVATION:G1INIOMON_07

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400

DESCRIP:MONITORING OF IOs NIGHTSIDE

Io Monitoring in Real Time		ACTIVITY ID:	G1INIOMON_07-
		START TIME:	96-181/11:28:22.866

Activity ID: Orbit G1 Target I Inst N OAPEL IOMON_ SeqNo 07 -

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

Time System	CDS	Load ID	G1A	Calendar Date	06/29/96	Week	26

Start	IEE+CDS 1010:00:0	96-181/11:28:22.866	IEE+000/17:01:13.333
End	IEE+CDS 1014:12:0	96-181/11:32:33.533	IEE+000/17:05:24.000
Duration	4:12:0	000/00:04:10.667	000/00:04:10.667

Top Label	G1INIOMON_07-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Real Time observation of Io’s nightside to map hot spots and look for thermal changes on the surface.

Processor Halted, Data Returned

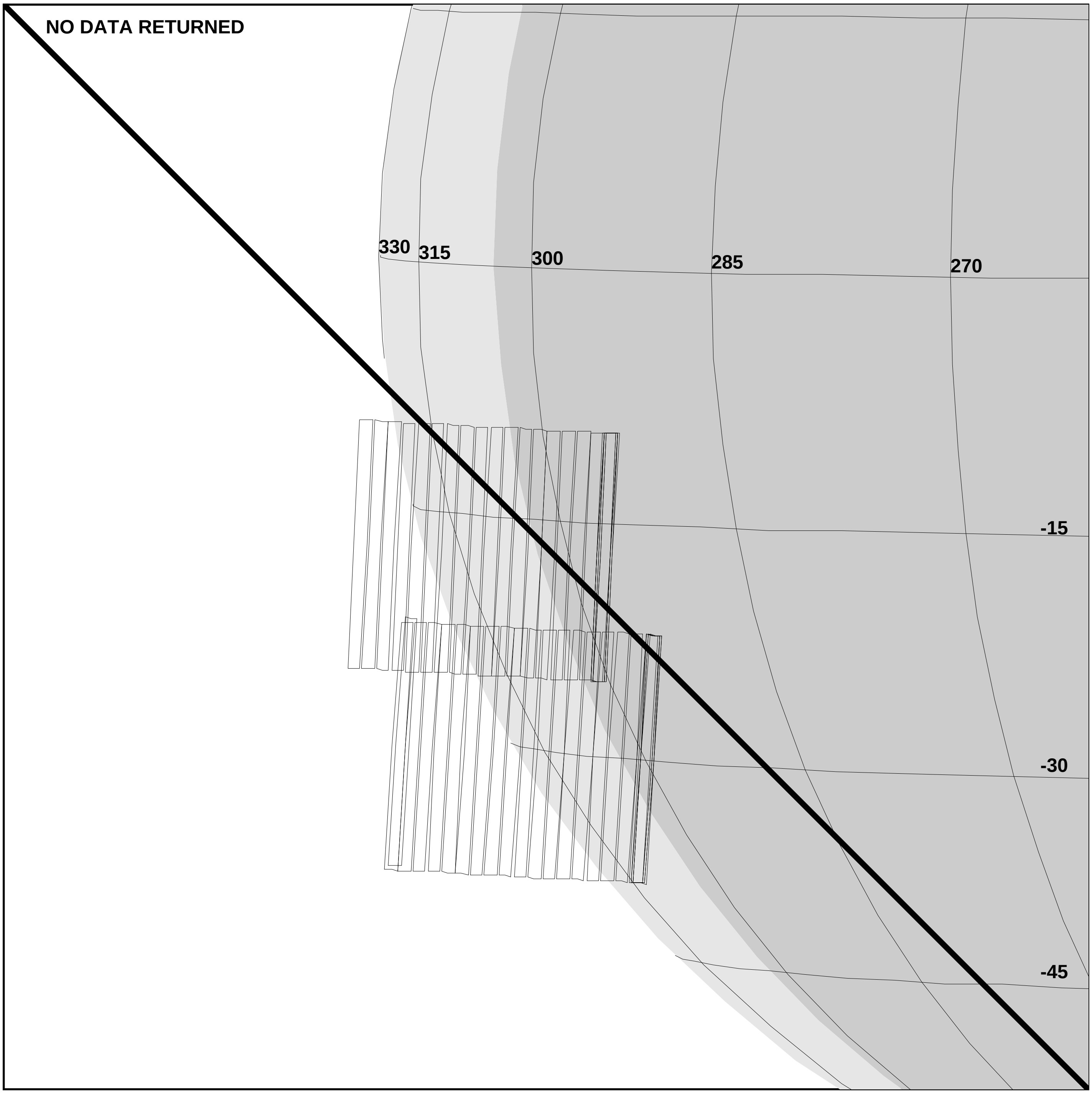
Design Detail

Global mosaic, observation duration: 12 minor frames.
These 12 minor frames must be the first 12 of a rim.
NIMS mirror scans cut from 20 to 8.
Fixed map, 8 wavelengths. MBTG = 0.017, R/T = 3.5% MUB
Offset target center by 2 mrad in cone, either direction.
8 mirror positions, will get 23 fields of view, use double Nyquist.
Design the observation to bias toward the bottom of the scan, i.e., cover the satellite with the bottom mirrors accounting for pointing uncertainty. Plot all 20 mirror positions.

Cone: 51 degrees.

Fixed Map (XM), Gain 2, Grating Start 0, R/T, G1IXM8RT

Galileo Activity Plan Form   05/09/96 18:13:58   rev 6/95



165FF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8510 TC= 2(31.1 272.6)
A= 728 pD= 0 SR=17.430 RA50= 74.27 DEC50= 23.00 cone= 31.10 clock=272.60
117FF:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/8510
1:#s= 2 Cs= 9.50 XCs= 0.00 Cr= -8.00 XCr= 8.00 sD= 318 rD= 36

G1JNGRS15401

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS15401

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

START:JEE 96-180/00:31:20.266 +CDS 2251:00:0

OBSERVATION:G1JNGRS15401

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

DESCRIP:GRS PHASE 154 #1

GRS 154 Phase #1	ACTIVITY ID: G1JNGRS15401- START TIME: 96-181/14:23:18.266

Activity ID: Orbit G1 Target J Inst N OAPEL GRS154 SeqNo 01 -

Title	GRS 154 Phase #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	G1A	Calendar Date	06/29/96	Week	26

Start	JEE+CDS 2247:00:0	96-181/14:23:18.266	JEE+001/13:51:58.000
End	JEE+CDS 2254:84:0	96-181/14:31:18.932	JEE+001/13:59:58.666
Duration	7:84:0	000/00:08:00.666	000/00:08:00.666

Top Label	G1JNGRS15401-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	187	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

154 degrees phase observation of GRS near bright limb. First of two observations acquired during this rotation. 15 wavelengths acquired utilizing wavelength table JFT15A.

Processor Halted, No Data Returned

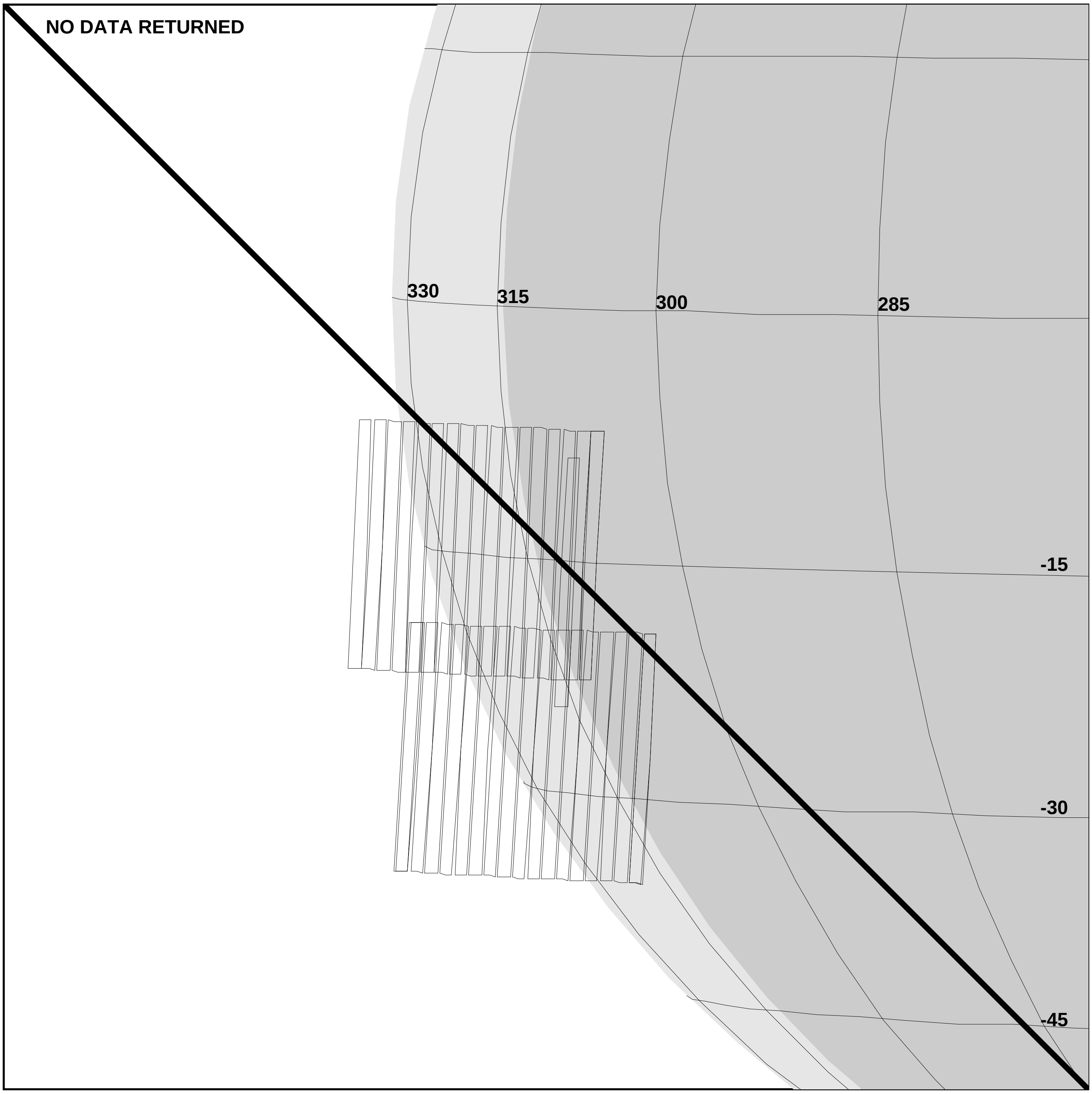
Design Detail

Approximately 2*1 (~18 mrads N/S by ~10 mrads E/W) shortmap of Great Red Spot. 4 minutes reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 224 seconds, accumulating 0.1628 MBTG in 15 colors using 0.0075 tracks.

Cone: 32 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A

Galileo Activity Plan Form 05/09/96 18:13:58 rev 6/95



165FG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1604 TC= 2(30.78 272.4)
A= 182 pD= 0 SR=17.430 RA50= 74.60 DEC50= 23.14 cone= 30.78 clock=272.40
117FG:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/1604
1:#s= 2 Cs= 9.00 XCs= 0.00 Cr= -7.00 XCr= 8.00 sD= 246 rD= 36

G1JNGRS15402

TARGET G1.0 brad : 4/30/1996 16: 4:13

FILE:P.G1JNGRS15402

CENTRAL BODY:JUPITER

MINI:m.target.enc

S/C EPH:/DATA/NAVIO/T-960420-G1A.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-180/00:31:20.266 +CDS 2268:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

OBSERVATION:G1JNGRS15402

DESCRIP:GRS PHASE 154 #2

GRS 154 Phase #2	ACTIVITY ID: G1JNGRS15402- START TIME: 96-181/14:43:31.599

Activity ID: Orbit G1 Target J Inst N OAPEL GRS154 SeqNo 02 -

Title	GRS 154 Phase #2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G1A Calendar Date 06/29/96 Week 26

Start	JEE+CDS 2267:00:0	96-181/14:43:31.599	JEE+001/14:12:11.333
End	JEE+CDS 2271:87:0	96-181/14:48:32.266	JEE+001/14:17:12.000
Duration	4:87:0	000/00:05:00.667	000/00:05:00.667

Top Label G1JNGRS15402-
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

154 degrees phase observation of GRS near terminator. Second of two observations acquired on this rotation. 15 wavelengths acquired utilizing wavelength table JFT15A.

Processor Halted, No Data Returned

Design Detail

Approximately 2*1 (~18 mrads N/S by ~10 mrads E/W) shortmap of Great Red Spot. 1 minute reserved for targetting. Nyquist sampling E/W. 2 mrad overlap between the two tiers. GRS assumed located at 321 degrees longitude (System III), 23 degrees S. latitude. Record duration: 182 seconds, accumulating 0.1323 MBTG in 15 colors using 0.0061 tracks.

Cone: 32 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, G1JFT15A, G1JFT15A

Galileo Activity Plan Form 05/09/96 18:13:58 rev 6/95

NIMS PCT Calibration	ACTIVITY ID: G1NNPCTCAL01- START TIME: 96-181/15:14:52.266

Activity ID: Orbit G1 Target N Inst N OAPEL PCTCAL SeqNo 01 -

Title	NIMS PCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/29/96 Week 26

Start	JEE+CDS 2298:00:0	96-181/15:14:52.266	JEE+001/14:43:32.000
End	JEE+CDS 2397:02:6	96-181/16:54:59.599	JEE+001/16:23:39.333
Duration	99:02:0	000/01:40:07.333	000/01:40:07.333

Top Label G1NNPCTCAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	465	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is a NIMS photometric calibration using the PCT target. The data will be used to calibrate the NIMS visible detectors. The calibration data will be recorded. This calibration will take place near the end of the G1 Encounter phase. At this time the spacecraft sun angle is about 2 degrees. A NIMS Optical Calibration is also performed. This is the first NIMS PCT calibration since the Ida Encounter.

Processor Halted, No Data Returned

Design Detail

The Dark cone,clock angles must be selected using Pointer.
1) Turn off PCT Heaters 6 hours before the calibration.
2) Set NIMS to Long Map Mode, Gain state 4, OPCAL On, ETB=PCT252
3) Slew to Dark (cone=xxx.xx, clock=xxx.xx), Record 3 Rims in LPU.
   (The first Rim contains the OPCAL data).
4) Slew to PCT (cone= 54.88, clock=244.07), Record 3 Rims in LPU.
5) Slew to Dark (cone=xxx.xx, clock=xxx.xx), Record 3 Rims in LPU.
6) Slew to Safe (cone=153.00, clock= 0.00)

Long Map (LM), Gain 4, Grating Start 0, LPU, G1PCT252, G1PCT252

Galileo Activity Plan Form 05/09/96 18:13:59 rev 6/95

Turn NIMS chopper off	ACTIVITY ID: G1NNCHOPOF01- START TIME: 96-181/19:17:32.266

Activity ID: Orbit G1 Target N Inst N OAPEL CHOPOF SeqNo 01 -

Title	Turn NIMS chopper off			Instrument	NIMS
Requestor	NIMS-SWG/K. BAINES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1A Calendar Date 06/29/96 Week 26

Start	JEE+CDS 2538:00:0	96-181/19:17:32.266	JEE+001/18:46:12.000
End	JEE+CDS 2548:00:0	96-181/19:27:38.932	JEE+001/18:56:18.666
Duration	10:00:0	000/00:10:06.666	000/00:10:06.666

Top Label G1NNCHOPOF01
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

To preserve the NIMS chopper life.

Design Detail

Use a NIMSTAB PA to reset wavelength table with parameters 04,C4,02,00,00
and to issue a 37IOP,0,0 to put NIMS in SAFE mode.
Then:
Use two NIMS 37IST commands to turn chopper off:
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)
37IST,0,1,1,0,OFF,0,0,0 (Change Chopper 63Hz to Off)

Galileo Activity Plan Form 05/09/96 18:13:59 rev 6/95

NIMS SHLD FLSH OFF/PCT HTRS ON	ACTIVITY ID:	G1NNSHDOFF01-
	START TIME:	96-184/11:21:46.600

Activity ID: Orbit G1 Target N Inst N OAPEL SHDOFF SeqNo 01 -

Title	NIMS SHLD FLSH OFF/PCT HTRS ON			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1B Calendar Date 07/02/96 Week 27

Start	RTA-CDS 2200:00:0	96-184/11:21:46.600	RTA-001/13:04:26.666
End	RTA-CDS 10:00:0	96-186/00:16:06.600	RTA-000/00:10:06.666
Duration	2190:00:0	001/12:54:20.000	001/12:54:20.000

Top Label G1NNSHDOFF01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To turn off NIMS shield flash heater 48 hours before the RCT calibration.

Design Detail

Need comment PA in OAPEL to be expanded in the OAP process.

Galileo Activity Plan Form 05/09/96 18:13:59 rev 6/95

POWER MODE CAL/DEC NIMS RT CAL	ACTIVITY ID: G1NNRCTRLT01- START TIME: 96-186/00:16:06.600

Activity ID: Orbit G1 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	POWER MODE CAL/DEC NIMS RT CAL			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1B	Calendar Date	07/04/96	Week	27

Start	RTA-CDS	10:00:0	96-186/00:16:06.600	RTA-000/00:10:06.666
End	RTA+CDS	760:00:0	96-186/13:14:39.932	RTA+000/12:48:26.666
Duration		770:00:0	000/12:58:33.332	000/12:58:33.332

Top Label G1NNRCTRLT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	499	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target. The data will be used to calibrate the NIMS thermal detectors. The calibration data will be returned using Real Time telemetry. This calibration will take place after the OTM.

Processor Halted, Bad 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=xxx.xx), return 1 grating cycle (12 mf) in R/T.
6) Slew to RCT (cone= 0.00), return 2 grating cycles (24 mf) in R/T
7) Slew to Dark (cone=xxx.xx), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone=153.00)
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, G1RCT252, G1RCT252

Galileo Activity Plan Form   05/09/96 18:13:59   rev 6/95

OPCAL RT

ACTIVITY ID: G1NNOPCAL_01-
START TIME: 96-201/05:12:00.000

Activity ID: Orbit G1 Target N Inst N OAPEL OPCAL_ SeqNo 01 -

Title	OPCAL RT			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1B Calendar Date 07/20/96 Week 28

Start		96-201/05:12:00.000
End		96-201/05:22:00.000
Duration	4:88:0	000/00:10:00.000

Top Label G1OPCAL 01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	217	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To perform an Optical Calibration of the NIMS instrument

Also used to verify the funcioning of the NIMS RAM code
after a NIMS software reload.

Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 1 and 2 only.
NIMS is selected in Real Time for 5 Rims.
Five Long Map grating cycles are returned.

The first and third Rims contain OPCAL data, the rest are dark sky.

Long Map (LM), Gain 4, Grating Start 0, R/T, G1OPCAL48

Galileo Activity Plan Form 06/17/96 12:41:01 rev 6/95

OPCAL RT　　ACTIVITY ID: G1NNOPCAL_02-
START TIME: 96-208/03:47:00.000

Activity ID: Orbit G1 Target N Inst N OAPEL OPCAL_ SeqNo 02 -

Title	OPCAL RT			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1B Calendar Date 07/27/96 Week 29

Start		96-208/03:47:00.000
End		96-208/03:54:00.000
Duration	4:88:0	000/00:07:00.000

Top Label G1OPCAL 02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	217	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To perform an Optical Calibration of the NIMS instrument

Also used to verify the funcioning of the NIMS RAM code
after a NIMS software reload.

Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 1 and 2 only.
NIMS is selected in Real Time for 3 Rims.
Three Long Map grating cycles are returned.

The first and third Rims contain OPCAL data, the rest is dark sky.

Long Map (LM), Gain 4, Grating Start 0, R/T, G1OPCAL48

Galileo Activity Plan Form　　06/17/96 12:41:01 rev 6/95

Turn NIMS chopper off	ACTIVITY ID: G1NNCHOPOF02- START TIME: 96-208/04:37:00.000

Activity ID: Orbit G1 Target N Inst N OAPEL CHOPOF SeqNo 02 -

Title	Turn NIMS chopper off			Instrument	NIMS
Requestor	NIMS-SWG/K. BAINES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G1B Calendar Date 07/27/96 Week 29

Start	96-208/04:37:00.000
End	96-208/05:10:00.000
Duration	000/00:33:00.000

Top Label G1NNCHOPOF02
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

To preserve the NIMS chopper life.

Design Detail

Use a NIMSTAB PA to reset wavelength table with parameters 04,C4,02,00,00
and to issue a 37IOP,0,0 to put NIMS in SAFE mode.
Then:
Use two NIMS 37IST commands to turn chopper off:
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)
37IST,0,1,1,0,OFF,0,0,0 (Change Chopper 63Hz to Off)

Galileo Activity Plan Form 05/09/96 18:13:59 rev 6/95

NIMS SHLD FLSH OFF/PCT HTRS ON	ACTIVITY ID: G1NNSHDOFF02- START TIME: 96-217/04:55:42.134

Activity ID: Orbit G1 Target N Inst N OAPEL SHDOFF SeqNo 02 -

Title	NIMS SHLD FLSH OFF/PCT HTRS ON			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1C	Calendar Date	08/04/96	Week	31

Start	RTB-CDS 2200:00:0	96-217/04:55:42.134	RTB-001/13:04:26.666
End	RTB-CDS 10:00:0	96-218/17:50:02.134	RTB-000/00:10:06.666
Duration	2190:00:0	001/12:54:20.000	001/12:54:20.000

Top Label	G1NNSHDOFF02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To turn off NIMS shield flash heater 48 hours before the RCT calibration.

Design Detail

Need comment PA in OAPEL to be expanded in the OAP process.

Galileo Activity Plan Form   05/09/96 18:13:59   rev 6/95

POWER MODE CAL/DEC NIMS RT CAL　　　ACTIVITY ID: G1NNRCTRLT02-
START TIME: 96-218/17:50:02.134

Activity ID: Orbit G1 Target N Inst N OAPEL RCTRLT SeqNo 02 -

Title	POWER MODE CAL/DEC NIMS RT CAL			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G1C	Calendar Date	08/05/96	Week	32

Start	RTB-CDS	10:00:0	96-218/17:50:02.134	RTB-000/00:10:06.666
End	RTB+CDS	760:00:0	96-219/06:48:35.466	RTB+000/12:48:26.666
Duration		770:00:0	000/12:58:33.332	000/12:58:33.332

Top Label　G1NNRCTRLT02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	499	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real Time telemetry.
This calibration will take place after Apojove.

Data Returned

Design Detail

This is a Library Sequence.
The Dark cone angle must be selected using Pointer.
1) Turn on PCT 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=xxx.xx), return 1 grating cycle (12 mf) in R/T.
6) Slew to RCT (cone= 0.00), return 2 grating cycles (24 mf) in R/T
7) Slew to Dark (cone=xxx.xx), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone=153.00)
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, G1RCT252, G1RCT252

Galileo Activity Plan Form　　05/09/96 18:13:59　rev 6/95

NIMS PCT Real Time Calibration		ACTIVITY ID:	G1NNPCTRLT01-
		START TIME:	96-222/07:59:00.000

Activity ID: Orbit G1 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	G1B	Calendar Date	08/09/96	Week	31

Start	96-222/07:59:00.000
End	96-224/15:52:00.000
Duration	002/07:53:00.000

Top Label	G1NNPCTRLT01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	275	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	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 returned via RealTime.
This calibration will take place during the cruise of the G1 Encounter
when the sun-angle is about x degrees.

Data Returned

Design Detail

1) Turn off Shield Heaters 48 hours before the calibration.
2) Turn off PCT heaters 6 hours before calibration.
3) Scan Platform is at Safe/Unstow (cone=153.00, clock=0.00)
4) Chopper on, Gain State 4,
5) Set NIMS to Long Map Mode, ETB=PCT252,
   Mirror Blocking (1B,1B) (11011,11011)
6) Select 1 Rim of Dark in Real Time (Return 1 LM grating cycle)
7) Slew to PCT (cone = 54.88, clock = 244.07)
8) Select 10 Rims of PCT in Real Time (Return 10 LM grating cycles)
9) Slew to Safe (cone = 153.00, clock = 0.00)
10) NIMS to Safe Mode, Reset Mirror Blocking (00,00) (00000,00000)
11) Chopper Off

Long Map (LM), Gain 4, Grating Start 0, RT, G1PCT252,

Galileo Activity Plan Form   11/15/96 10:45:25   rev 6/95