Chapter 5 - Detailed Observation Designs

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Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

NIMS Chopper ON	ACTIVITY ID: G8NNCHOPON01- START TIME: 97-126/04:55:06.200

Activity ID: Orbit G8 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS Chopper ON			Instrument	NIMS
Requestor	NIMS-SWG/P. HERRERA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 05/06/97 Week 19

Start	CEE-CDS 00000431:00:0	97-126/04:55:06.200	CEE-000/07:15:47.333
End	CEE-CDS 00000424:00:0	97-126/05:02:10.867	CEE-000/07:08:42.666
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G8NNCHOPON01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

Configure the NIMS instrument for orbit G8 data taking, i.e. turn the NIMS choper on to Reference.

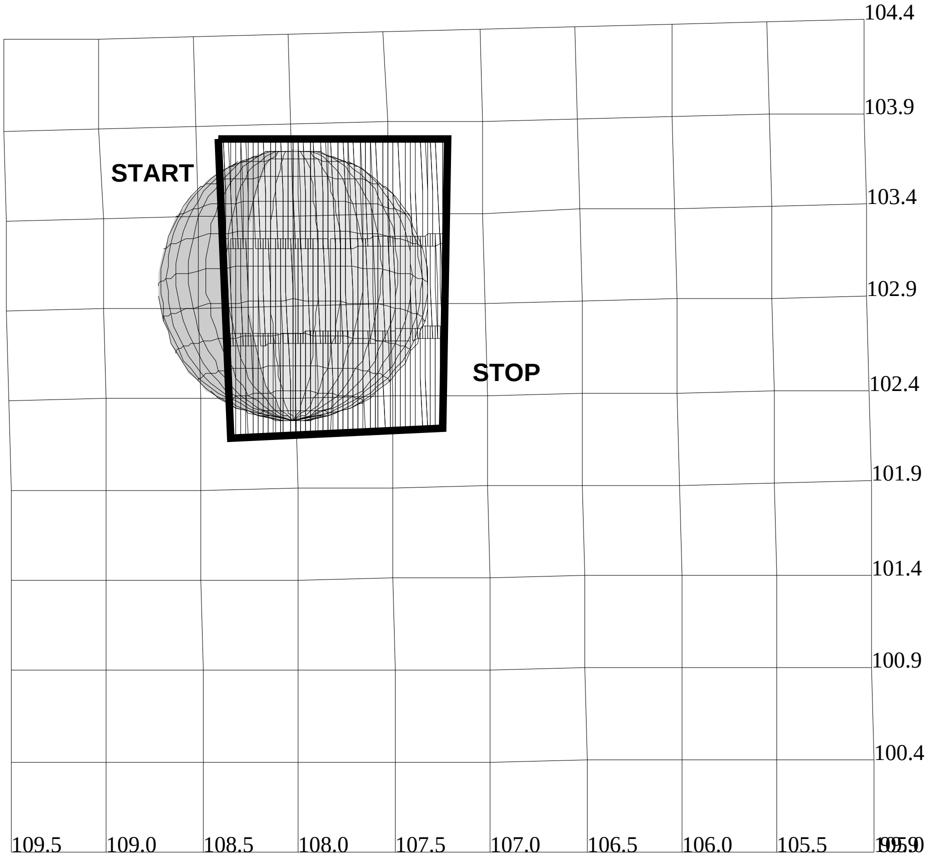
Design Detail

Use NIMSINIT with the following commands:

37IST,1,0,0,OFF,0,0,0 Chopper 63 Hz

37IST,1,2,0,OFF,0,0,0 Chopper Reference

Galileo Activity Plan Form 05/09/97 16:17:50 rev 6/95



165DA:TT= 0 TMC= 1 C= 6.50 XC= 8.50 BS= 0/9982 TC= 3
A= 182 pD= 6348 SR=17.450 RA50=237.54 DEC50=-12.74 cone=108.33 clock=103.52
117DA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9982
1:#s= 3 Cs= -20.90 XCs= 0.00 Cr= 20.90 XCr= -9.00 sD= 2102 rD= 20

G8CNGLOBAL01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target

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

PERIAPSIS:

START:CEE 97-126/12:10:53.533 -CDS 413:00:0

OBSERVATION:G8CNGLOBAL01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 6348 S= 0.200

DESCRIP:Callisto Global Coverage

CALLISTO GLOBAL COVERAGE | **ACTIVITY ID:** G8CNGLOBAL01-
START TIME: 97-126/05:05:12.867

Activity ID: Orbit G8 Target C Inst N OAPEL GLOBAL SeqNo 01 -

Title	CALLISTO GLOBAL COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/06/97	Week 19

Start	CEE-CDS 00000421:00:0	97-126/05:05:12.867	CEE-000/07:05:40.666
End	CEE-CDS 00000378:00:0	97-126/05:48:41.533	CEE-000/06:22:12.000
Duration	00000043:00:0	000/00:43:28.666	000/00:43:28.666

Top Label	G8CNGLOBAL01-
Bottom Label	

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

Observation Objective

The objective is to obtain the best combined spatial and spectral resolution of Callisto's surface, to investigate the mineralogy and to determine the distribution of compositional units.

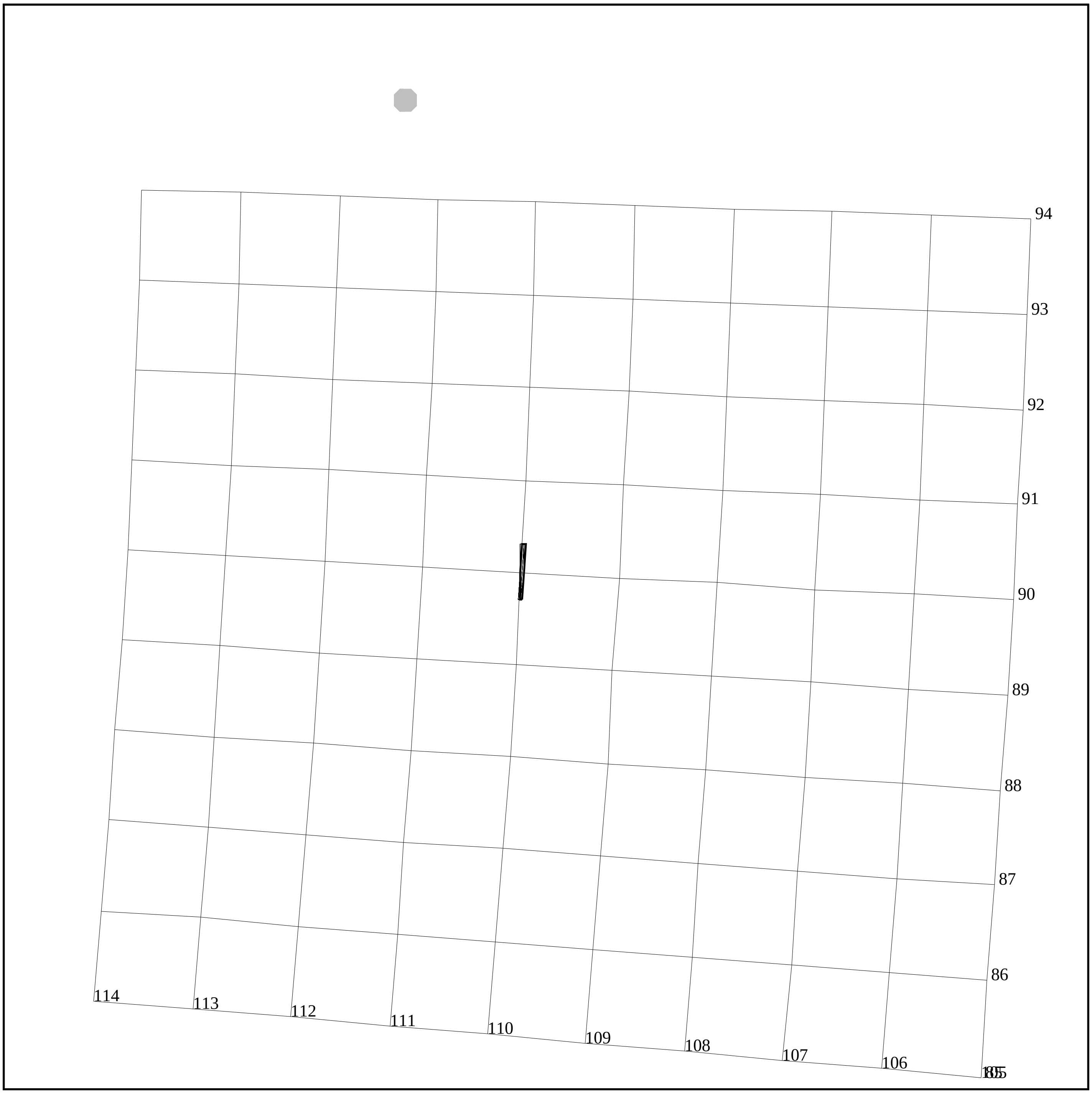
Data Returned

Design Detail

Instrument Mode: Short Map
Spatial Resolution: 43.78 km/nimsel
Instrument Gain State: 2
Spectral Resolution: 51 wavelengths
Phase Angle: 61.55
Coverage in Nimsels:
Tracks: 0.051
Continuous slew, full disk mosaic 3 hours and 45 minutes prior to Callisto closest approach. Cover all lit longitudes and latitudes.
Observation contains 8 swaths.

Long Map (LM), Gain 4, Grating Start 0, LPU, G8CLM244B, G8CLM216B

Galileo Activity Plan Form   05/09/97 16:17:50   rev 6/95



165DB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3298 TC= 2(110 90)
A= 728 pD= 0 SR=17.450 RA50=236.49 DEC50=-25.59 cone=110.00 clock= 90.00

G8HNDARK__01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8HNDARK__01

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 1**

START:CEE 97-126/12:10:53.533 -CDS 175:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400**

OBSERVATION:G8HNDARK__01 **DESCRIP:DARK OBSERVATION**

Dark Observation	ACTIVITY ID: G8HNDARK__01- START TIME: 97-126/09:08:53.533

Activity ID: Orbit G8 Target H Inst N OAPEL DARK__ SeqNo 01 -

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

Time System CDS Load ID Calendar Date 05/06/97 Week 19

Start	CEE-CDS 00000180:00:0	97-126/09:08:53.533	CEE-000/03:02:00.000
End	CEE-CDS 00000170:00:0	97-126/09:19:00.200	CEE-000/02:51:53.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G8NNHNDARK01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

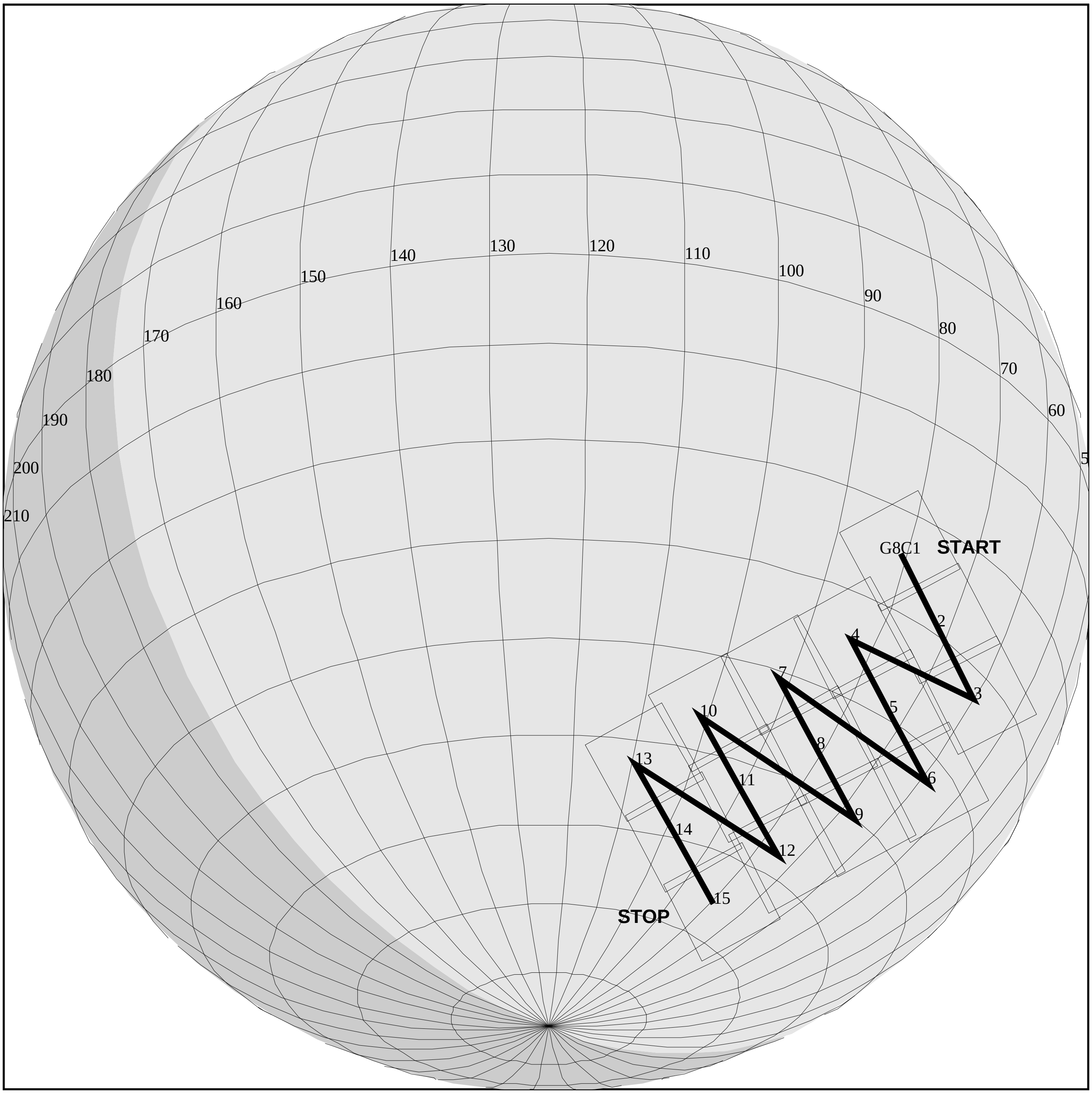
Data Returned

Design Detail

Target to Dark sky.

Long Map (LM), Gain 4, Grating Start 0, MPW, G8DRK34, G8DRK32

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95




```
165IA:TT=   0 TMC= 1 C=  -14.90 XC=   14.00 BS=68/1862 TC= 1(-47.0        78.0        )
   A= 546 pD=   650 SR=17.450 RA50=266.94 DEC50=  5.27 cone=130.22 clock=134.28
118IA:#SB= 5 Cs=    0.00 XCs=   -7.47 TPP=   46 SR= 3.500 RR= 3.500 BM=F RC=  1 BS=71/1862
     1:#s=  3 #p=  1 Cr=    7.47 XCr=   11.50
     2:#s=  3 #p=  1 Cr=    7.47 XCr=   10.02
     3:#s=  3 #p=  1 Cr=    7.47 XCr=   15.20
     4:#s=  3 #p=  1 Cr=    7.47 XCr=   15.20
     5:#s=  3 #p=  1 Cr=    7.47 XCr=   14.00
```

G8CNVGRGAP01

DESIGN G3.1 herb : 5/ 2/1997 14:53:40

FILE:P.G8CSVGRGAP01

TARGET BODY :   CALLISTO

MINI:m.G8CSVGRGAP01

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

PERIAPSIS:

START:CEE 97-126/12:10:53.533   -CDS 73:00:0

OBSERVATION:G8CSVGRGAP01

THINNING:

BODY PLOT TIME:TARGET-TIME D= 650 S= 1.000

DESCRIP:VOYAGER GAP FILL

CALLISTO VOYAGER GAP FILL RIDE-ALONG	ACTIVITY ID:	G8CNVGRGAP 01-
	START TIME:	97-126/10:54:02.867

Activity ID: Orbit G8 Target C Inst N OAPEL VGRGAP SeqNo 01 -

Title	CALLISTO VOYAGER GAP FILL RIDE-ALONG	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA Team NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 05/06/97 Week 19

Start	CEE-CDS 00000076:00:0	97-126/10:54:02.867	CEE-000/01:16:50.666
End	CEE-CDS 00000068:00:0	97-126/11:02:08.200	CEE-000/01:08:45.333
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label G8CNVGRGAP01-
Bottom Label

Plot Key	SSI	Type	SCI		
CDS Bytes	380	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Ride-Along with SSI. Alias: G8CSVGRGAP01

Fill gap in Voyager medium-resolution coverage in the leading southern hemisphere, a region between about 60 and 100 degrees longitude and between 20 and 60 degrees south latitude. Cover some of area recorded on C3 orbit but de-selected from playback due to downlink MBTG constraints. Complete global survey of large ring structures, which are concentrated in the leading hemisphere.

Data Returned

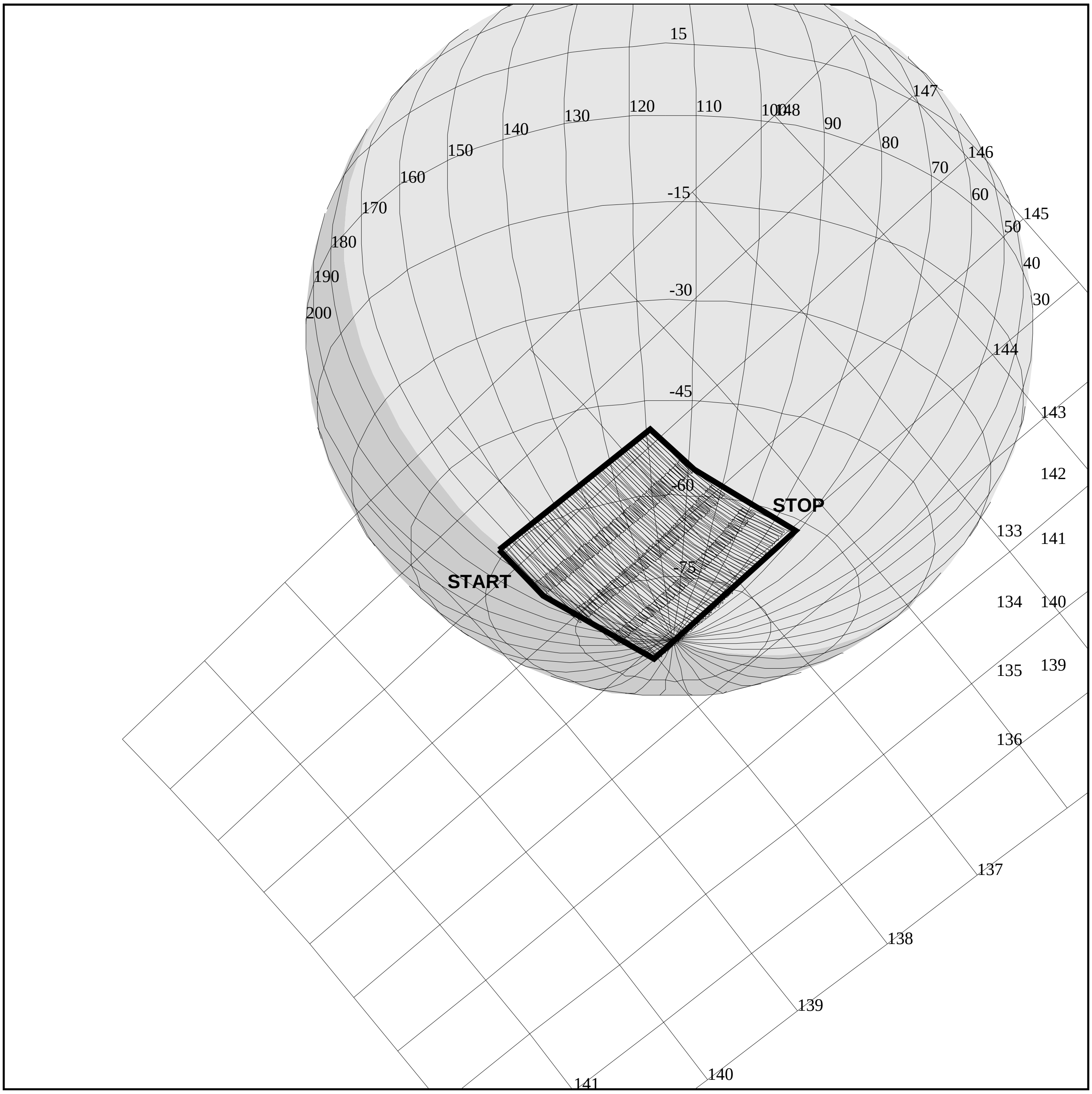
Design Detail

Ride-Along with SSI. Alias: G8CSVGRGAP01

Instrument Mode: Long Map
Instrument Gain State: 4
Spectral Resolution: 32 wavelengths

15-frame HIS start-stop mosaic, CLR filter, recorded 0.1131 tracks. Last frame 72% recorded. Mosaic centered at latitude -30 degrees, longitude 75 degrees. Phase angle 48 degrees, resolution 944 m/SSI-pixel.

Long Map (LM), Gain 4, Grating Start 0, HIS, G8DRK34, G8DRK32



165DC:TT= 0 TMC= 1 C= 42.00 XC= -12.00 BS= 0/5684 TC= 3
A= 728 pD= 5596 SR=17.450 RA50=278.35 DEC50= 7.97 cone=138.41 clock=145.92
117DC:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS=14/5684
1:#s= 4 Cs= -27.50 XCs= 0.00 Cr= 30.00 XCr= -5.00 sD= 1384 rD= 20

G8CNSPOLE_01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8CNSPOLE_01

TARGET BODY : CALLISTO

MINI:m.target

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

PERIAPSIS:

START:CEE 97-126/12:10:53.533 -CDS 52:00:0

OBSERVATION:G8CNSPOLE_01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 5596 S= 0.700

DESCRIP:Callisto South Pole Observation

CALLISTO SOUTH POLE OBSERVATION	ACTIVITY ID:	G8CNSPOLE_01-
	START TIME:	97-126/11:13:15.533

Activity ID: Orbit G8 Target C Inst N OAPEL SPOLE SeqNo 01 -

Title	CALLISTO SOUTH POLE OBSERVATION			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/06/97	Week	19

Start	CEE-CDS	00000057:00:0	97-126/11:13:15.533	CEE-000/00:57:38.000
End	CEE-CDS	00000016:00:0	97-126/11:54:42.867	CEE-000/00:16:10.666
Duration		00000041:00:0	000/00:41:27.334	000/00:41:27.334

Top Label	G8CNSPOLE 01-
Bottom Label	

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

Observation Objective

To obtain combined moderate spectral and spatial resolution data of Callisto's South Pole Region. Determine composition and mineralogy of surface.

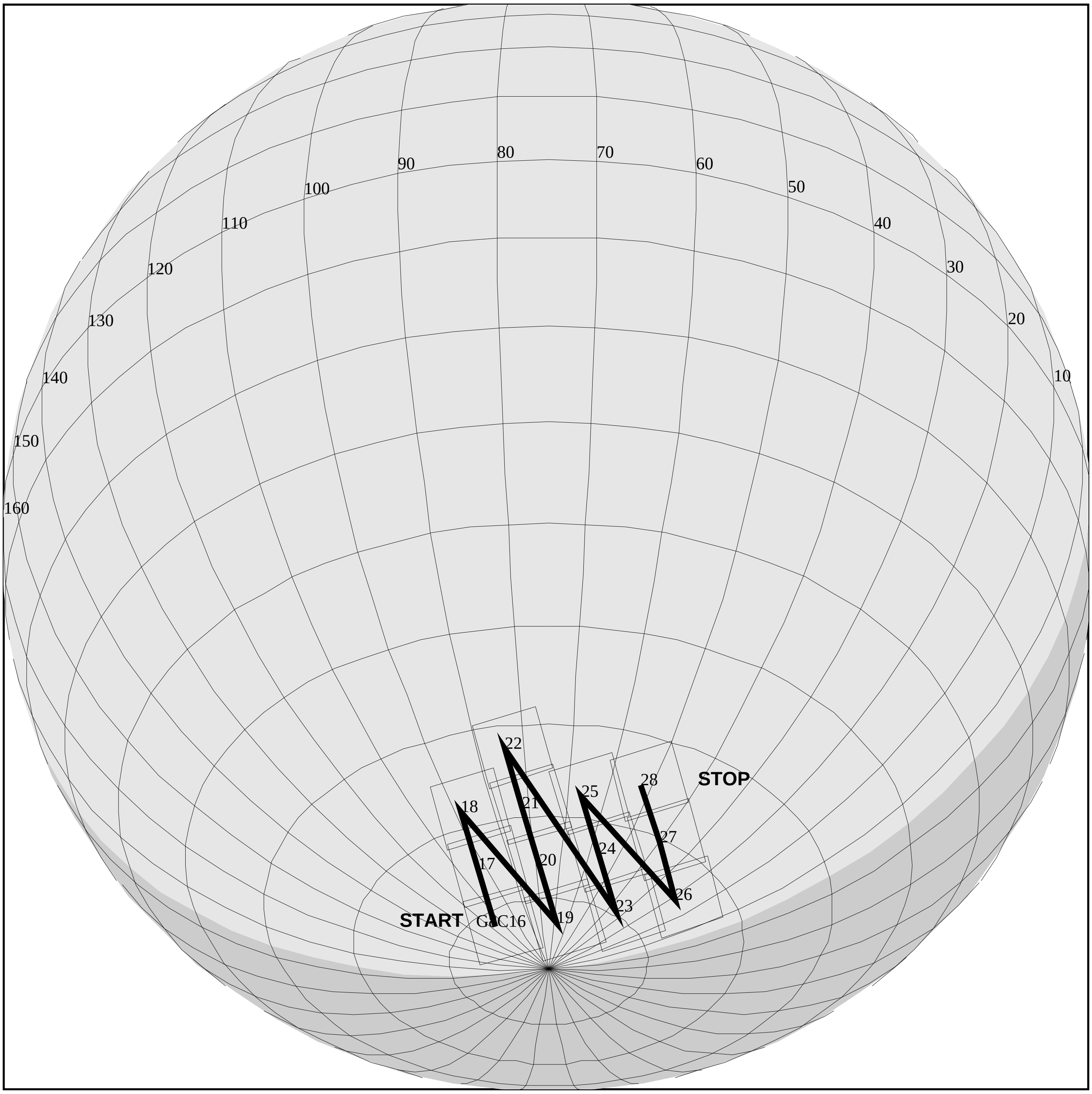
Data Returned

Design Detail

Instrument Mode: Short Map
Spatial Resolution: 19.37 km/nimsel
Instrument Gain State: 2
Spectral Resolution: 51 wavelengths
Phase Angle: 42.86
Coverage in nimsels:
Tracks: 0.033
Continuous slew mosaic over south pole region;
observation contains 5 scans, Nyquist scan rate, 20% overlap.

Full Map (FM), Gain 4, Grating Start 0, LPU, G8CFM102B, G8CFM96B

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95



165IB:TT= 0 TMC= 1 C= 6.30 XC= 10.95 BS= 0/4602 TC= 1(-74.0 65.0)
A= 228 pD= 694 SR=17.450 RA50=308.60 DEC50= 21.51 cone=141.35 clock=196.61
118IB:#SB= 4 Cs= -7.47 XCs= 0.00 TPP= 46 SR= 3.500 RR= 4.000 BM=F RC= 1 BS=71/4602
1:#s= 3 #p= 1 Cr= 0.00 XCr= 0.00
2:#s= 4 #p= 1 Cr= 16.70 XCr= -7.47
3:#s= 3 #p= 1 Cr= 23.60 XCr= -7.47
4:#s= 3 #p= 1 Cr= 16.00 XCr= -7.47

G8CNSPOLAR01

DESIGN G3.1 herb : 5/ 2/1997 14:53:18

FILE:P.G8CSSPOLAR01

TARGET BODY : CALLISTO

MINI:m.G8CSSPOLAR01

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

PERIAPSIS:

START:CEE 97-126/12:10:53.533 -CDS 03:00:0

OBSERVATION:G8CSSPOLAR01

THINNING:

BODY PLOT TIME:TARGET-TIME D= 694 S= 1.000

DESCRIP:SOUTH POLAR

CALLISTO SOUTH POLAR OBSERVATION		ACTIVITY ID:	G8CNSPOLAR01-
		START TIME:	97-126/12:05:50.200

Activity ID: Orbit G8 Target C Inst N OAPEL SPOLAR SeqNo 01 -

Title	CALLISTO SOUTH POLAR OBSERVATION			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/06/97 Week 19

Start	CEE-CDS 00000005:00:0	97-126/12:05:50.200	CEE-000/00:05:03.333
End	CEE+CDS 00000001:00:0	97-126/12:11:54.199	CEE+000/00:01:00.666
Duration	00000006:00:0	000/00:06:03.999	000/00:06:03.999

Top Label	G8CNSPOLAR01-
Bottom Label	

Plot Key	SSI	Type	SCI		
CDS Bytes	303	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Ride-Along with SSI. Alias: G8CSSPOLAR01

Obtain medium-resolution single-color coverage of the south polar region seen poorly by Voyager and elsewhere in the Galileo tour.

Data Returned

Design Detail

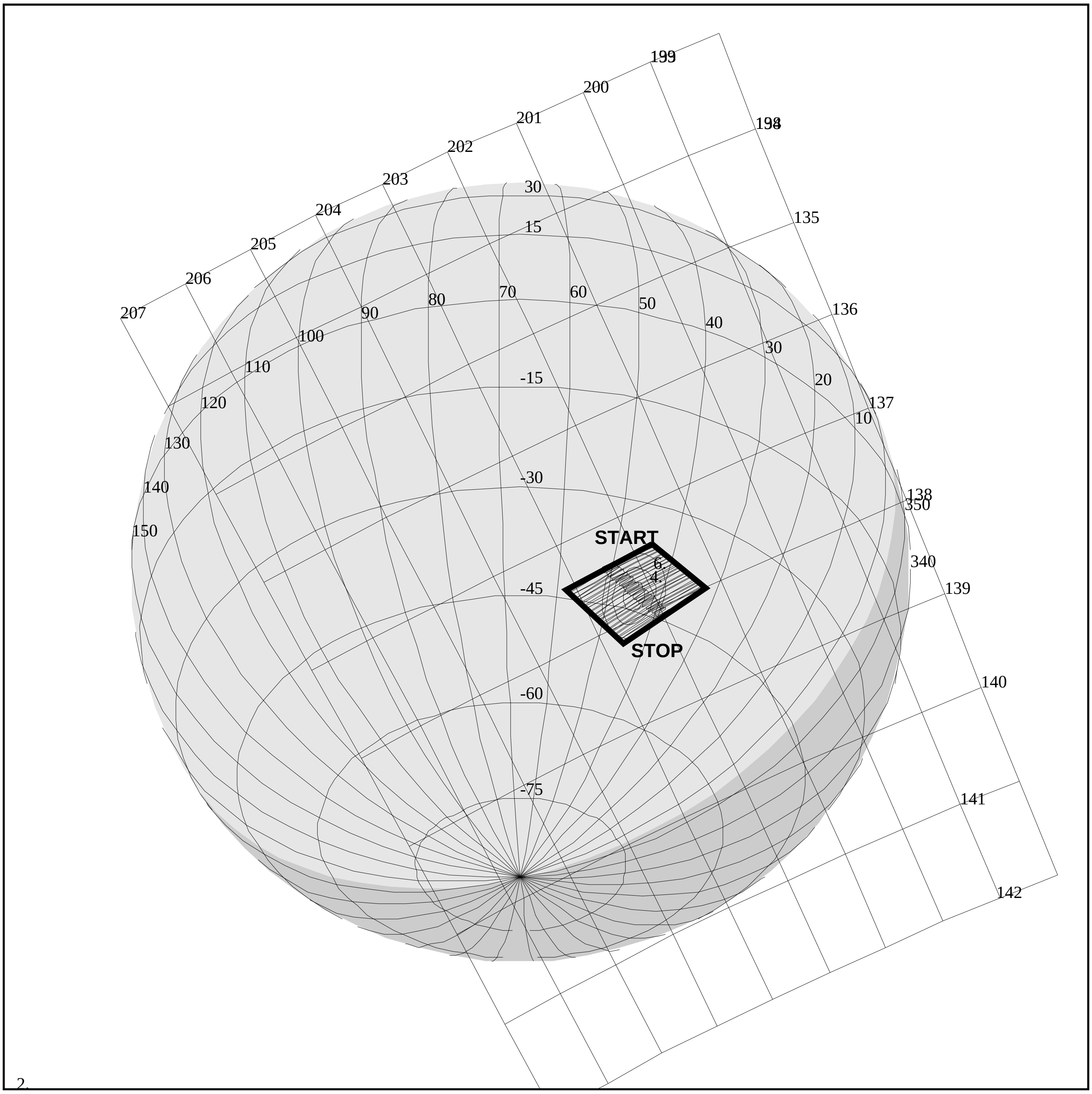
Ride-Along with SSI. Alias: G8CSSPOLAR01

Instrument Mode: Short Map
Instrument Gain State: 4
Spectral Resolution: 96 wavelengths

13-frame HIS start-stop mosaic, CLR filter, recorded 0.0997 tracks.
Mosaic centered at latitude -80 degrees, longitude 90 degrees.
Phase angle 42 degrees, resolution 678 m/SSI-pixel.

Full Map (FM), Gain 4, Grating Start 0, HIS, G8CFM102B, G8CFM96B

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95



165DD:TT=   0 TMC= 1 C=   5.50 XC= -18.00 BS= 0/6058 TC= 3
A= 728 pD= 1940 SR=17.450 RA50=312.33 DEC50= 25.60 cone=137.40 clock=202.12
117DD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6058
1:#s= 2 Cs=   9.50 XCs=   0.00 Cr= -11.50 XCr=   12.00 sD=   954 rD=   32

G8CNBURI__01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8CNBURI__01

TARGET BODY :   CALLISTO

MINI:m.target

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

PERIAPSIS:

START:CEE 97-126/12:10:53.533   +CDS 05:00:0

OBSERVATION:G8CNBURI__01

THINNING:NIM   2

BODY PLOT TIME:TARGET-TIME D= 1940 S= 0.750

DESCRIP:BURI CRATER COVERAGE

BURI CRATER COVERAGE	ACTIVITY ID: G8CNBURI__01- START TIME: 97-126/12:10:53.533

Activity ID: Orbit G8 Target C Inst N OAPEL BURI SeqNo 01 -

Title	BURI CRATER COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 05/06/97 Week 19

Start	CEE+CDS 00000000:00:0	97-126/12:10:53.533	CEE+000/00:00:00.000
End	CEE+CDS 00000016:00:0	97-126/12:27:04.199	CEE+000/00:16:10.666
Duration	00000016:00:0	000/00:16:10.666	000/00:16:10.666

Top Label G8CNBURI 01-
Bottom Label

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

Observation Objective

To thoroughly investigate the Buri Crater Region, determine minor constituents at the highest spectral and spatial resolution possible.

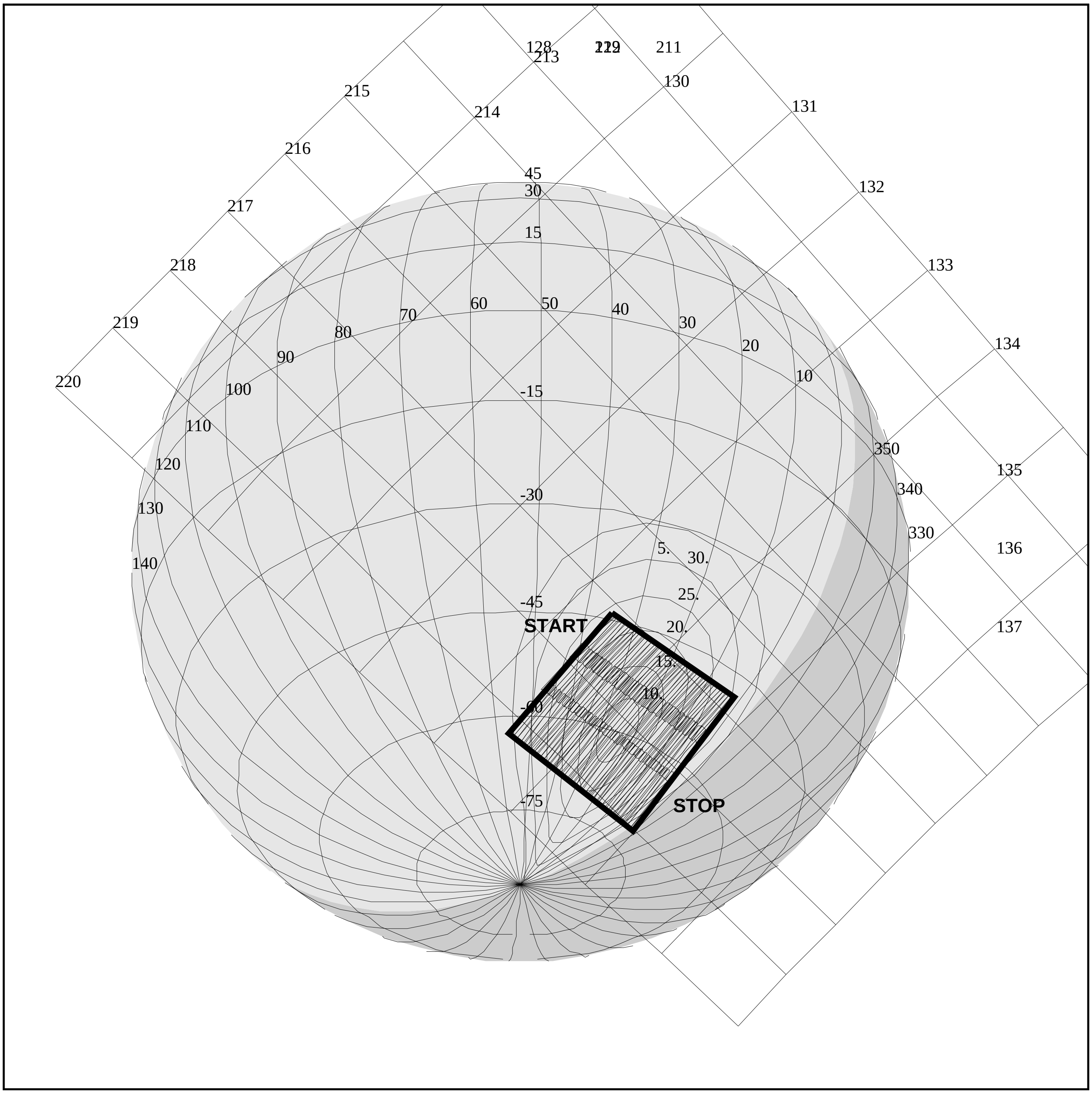
Data Returned

Design Detail

Instrument Mode: Long Map
Spatial Resolution: 16.58 km/nimsel
Instrument Gain State: 2
Spectral Resolution: 204 wavelengths
Phase Angle: 43.32
Coverage in Nimsels: 135 km x 331 km
Tracks: 0.016

Long Map (LM), Gain 4, Grating Start 0, LPU, G8CLM244B, G8CLM216B

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95



165DE:TT=   0 TMC= 1 C=   16.00 XC=   -1.00 BS= 0/8788 TC= 3
A= 728 pD= 3352 SR=17.450 RA50=324.99 DEC50= 27.89 cone=133.38 clock=217.53
117DE:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/8788
1:#s= 3 Cs=   22.00 XCs=   0.00 Cr= -25.00 XCr=   11.00 sD= 1104 rD=   22

G8CNADLIND01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8CNADLIND01

TARGET BODY :   CALLISTO

MINI:m.target

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

PERIAPSIS:

START:CEE 97-126/12:10:53.533   +CDS 20:00:0

OBSERVATION:G8CNADLIND01

THINNING:NIM   2

BODY PLOT TIME:TARGET-TIME D= 3352 S= 0.750

DESCRIP:ADLINDA AREA COVERAGE

ADLINDA AREA COVERAGE — ACTIVITY ID: G8CNADLIND01- START TIME: 97-126/12:27:04.199

Activity ID: Orbit G8 Target C Inst N OAPEL ADLIND SeqNo 01 -

Title	ADLINDA AREA COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 05/06/97 Week 19

Start	CEE+CDS 00000016:00:0	97-126/12:27:04.199	CEE+000/00:16:10.666
End	CEE+CDS 00000042:00:0	97-126/12:53:21.533	CEE+000/00:42:28.000
Duration	00000026:00:0	000/00:26:17.334	000/00:26:17.334

Top Label G8CNADLIND01-
Bottom Label

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

Observation Objective

To investigate the compositional differences of this region, determine the structure and minor constituents of Adlinda.
To obtain high resolution, spatial and spectral data to improve upon the VGR coverage.

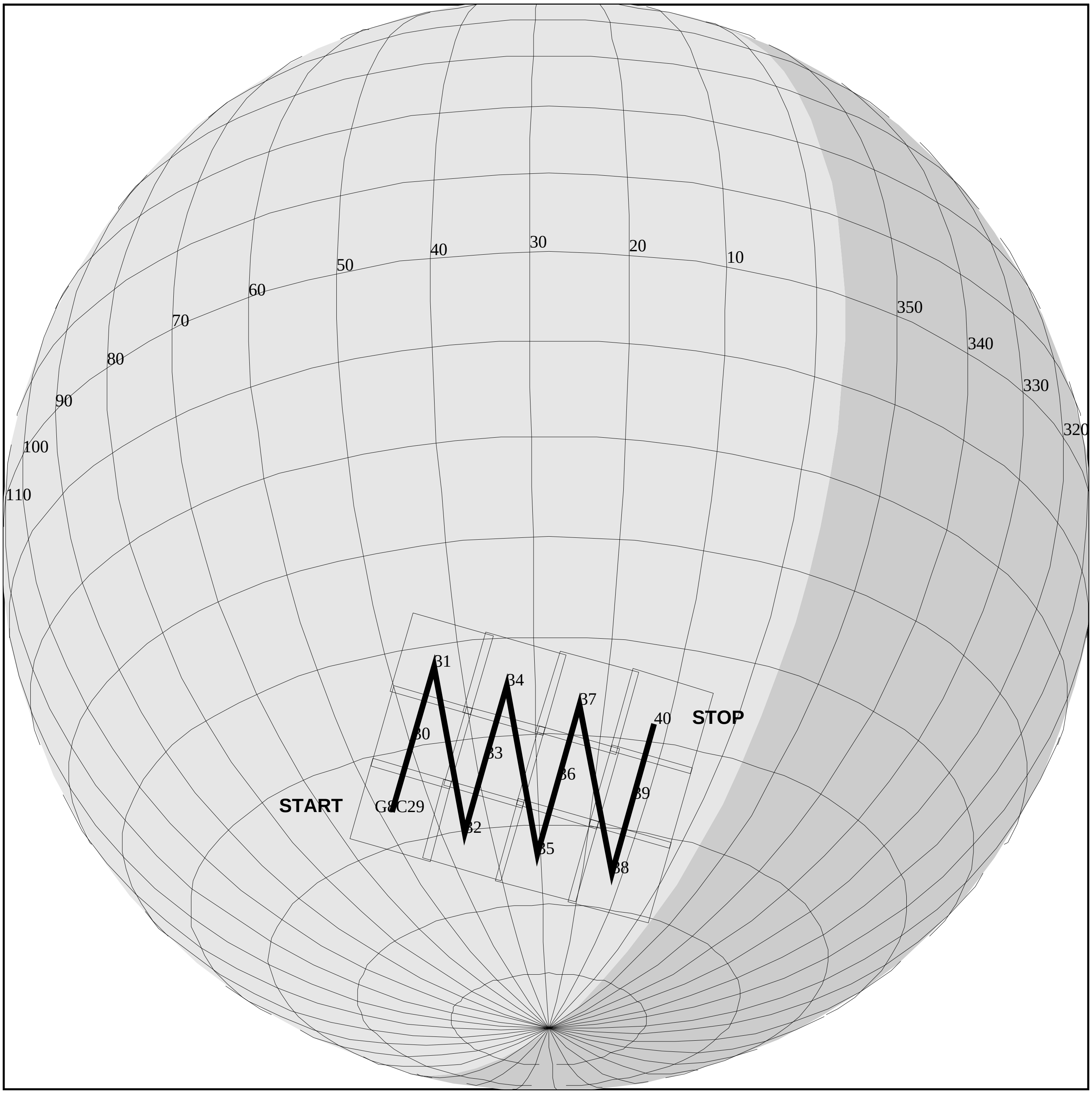
Data Returned

Design Detail

Instrument Mode: FM
Spatial Resolution: 17.9 km
Instrument Gain State: 2
Spectral Resolution: 102 wavelengths
Phase Angle:51.77
Coverage in Nimsels:

Long Map (LM), Gain 4, Grating Start 0, LPU, G8CLM244B, G8CLM216B

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95



165IC:TT= 0 TMC= 1 C= -12.50 XC= 7.47 BS= 0/5704 TC= 1(-54.0 29.0)
A= 182 pD= 512 SR=17.450 RA50=352.91 DEC50= 30.19 cone=118.54 clock=241.79
118IC:#SB= 1 Cs= 0.00 XCs= -7.47 TPP= 46 SR= 3.500 RR= 4.000 BM=F RC= 1 BS= 3/5704
1:#s= 3 #p= 4 Cr= 7.47 XCr= 14.94

G8CNADLNDA01

DESIGN G3.1 herb : 5/ 2/1997 14:52:27

FILE:P.G8CSADLNDA01

TARGET BODY : CALLISTO

MINI:m.G8CSADLNDA01

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

PERIAPSIS:

START:CEE 97-126/12:10:53.533 +CDS 58:00:0

OBSERVATION:G8CSADLNDA01

THINNING:

BODY PLOT TIME:TARGET-TIME D= 512 S= 1.000

DESCRIP:ADLINDA

ADLINDA SSI RIDE-ALONG | **ACTIVITY ID:** G8CNADLNDA01-
START TIME: 97-126/13:07:30.866

Activity ID: Orbit G8 Target C Inst N OAPEL ADLNDA SeqNo 01 -

Title	ADLINDA SSI RIDE-ALONG			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/06/97	Week	19

Start	CEE+CDS 00000056:00:0	97-126/13:07:30.866	CEE+000/00:56:37.333
End	CEE+CDS 00000061:00:0	97-126/13:12:34.199	CEE+000/01:01:40.666
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label	G8CNADLNDA01-
Bottom Label	

Plot Key	SSI	Type	SCI		
CDS Bytes	279	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Ride-Along with SSI. Alias: G8CSADLNDA01

Obtain medium-resolution single-color coverage of the Adlinda region.

Data Returned

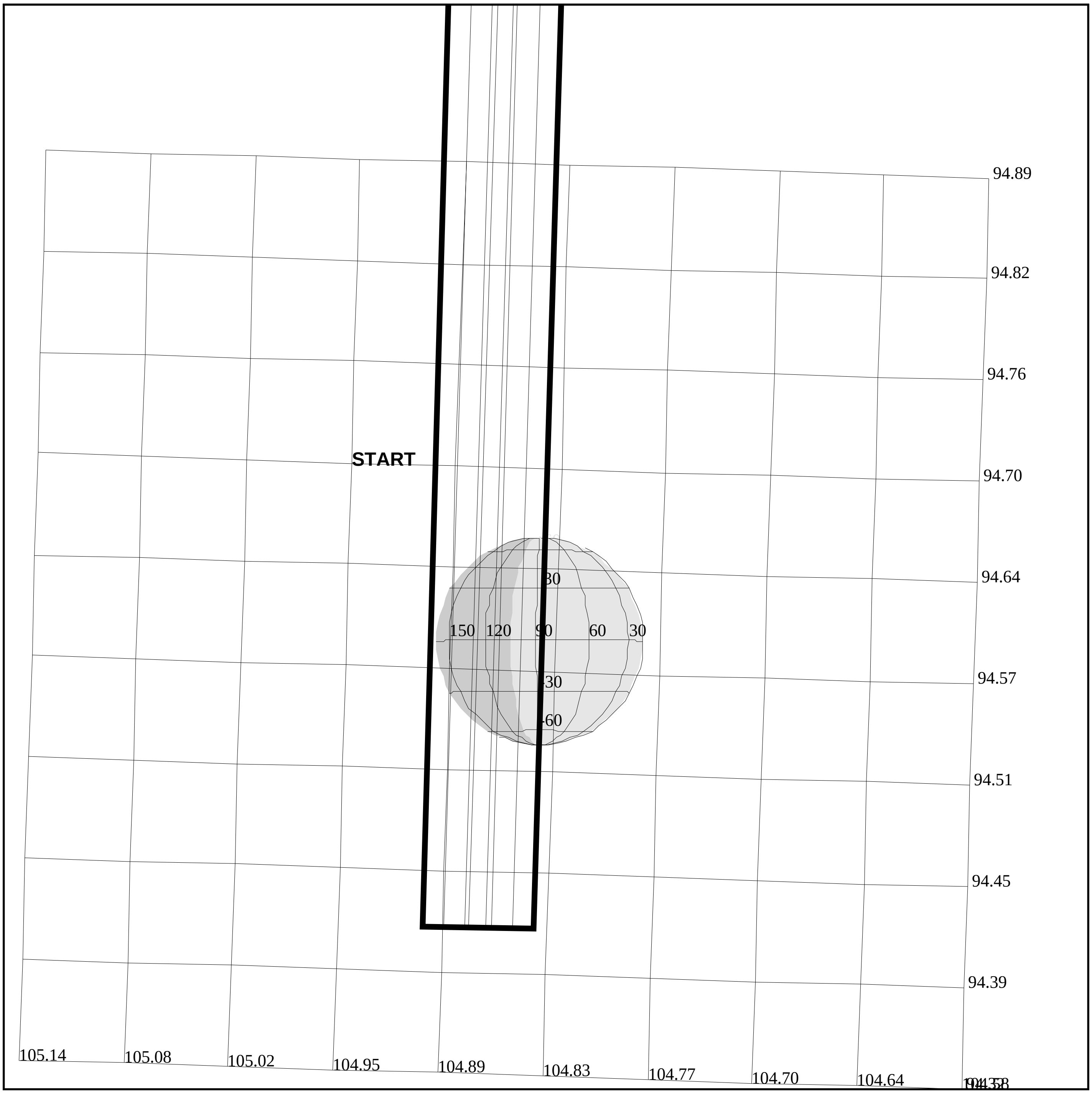
Design Detail

Ride-Along with SSI. Alias: G8CSADLNDA01

Instrument Mode: LM
Instrument Gain State: 4
Spectral Resolution: 216 wavelengths

3x4 HIS start-stop mosaic, CLR filter, recorded 0.0923 tracks.
Mosaic centered at latitude -51 degrees, longitude 25 degrees.
Phase angle 64 degrees, resolution 889 m/SSI-pixel.

Long Map (LM), Gain 4, Grating Start 0, HIS, G8CLM244B, G8CLM216B



165DG:TT= 0 TMC= 1 C= 1.00 XC= 2.00 BS= 0/5754 TC= 3
A= 546 pD= 0 SR=17.450 RA50=232.02 DEC50=-20.17 cone=104.90 clock= 94.71
117DG:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5754
1:#s= 1 Cs= -0.65 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 104 rD= 2

G8INTHRMAL01

DESIGN G3.1 jdods: 5/ 9/1997 12:11:11

FILE:P.G8INTHRMAL01

TARGET BODY : IO

MINI:m.G8INTHRMAL01

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 -CDS 814:00:0

OBSERVATION:G8INTHRMAL01

THINNING:NIM 1

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

DESCRIP:Monitoring of Io’s Nightside

MONITORING OF IO'S NIGHTSIDE **ACTIVITY ID: G8INTHRMAL01-**
START TIME: 97-126/17:43:32.800

Activity ID: Orbit G8 Target I Inst N OAPEL THRMAL SeqNo 01 -

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

Time System CDS Load ID Calendar Date 05/06/97 Week 19

Start	IEE-CDS 00000818:00:0	97-126/17:43:32.800	IEE-000/13:47:05.333
End	IEE-CDS 00000813:00:0	97-126/17:48:36.133	IEE-000/13:42:02.000
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G8INTHRMAL01-
Bottom Label

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

Observation Objective

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

Data Returned

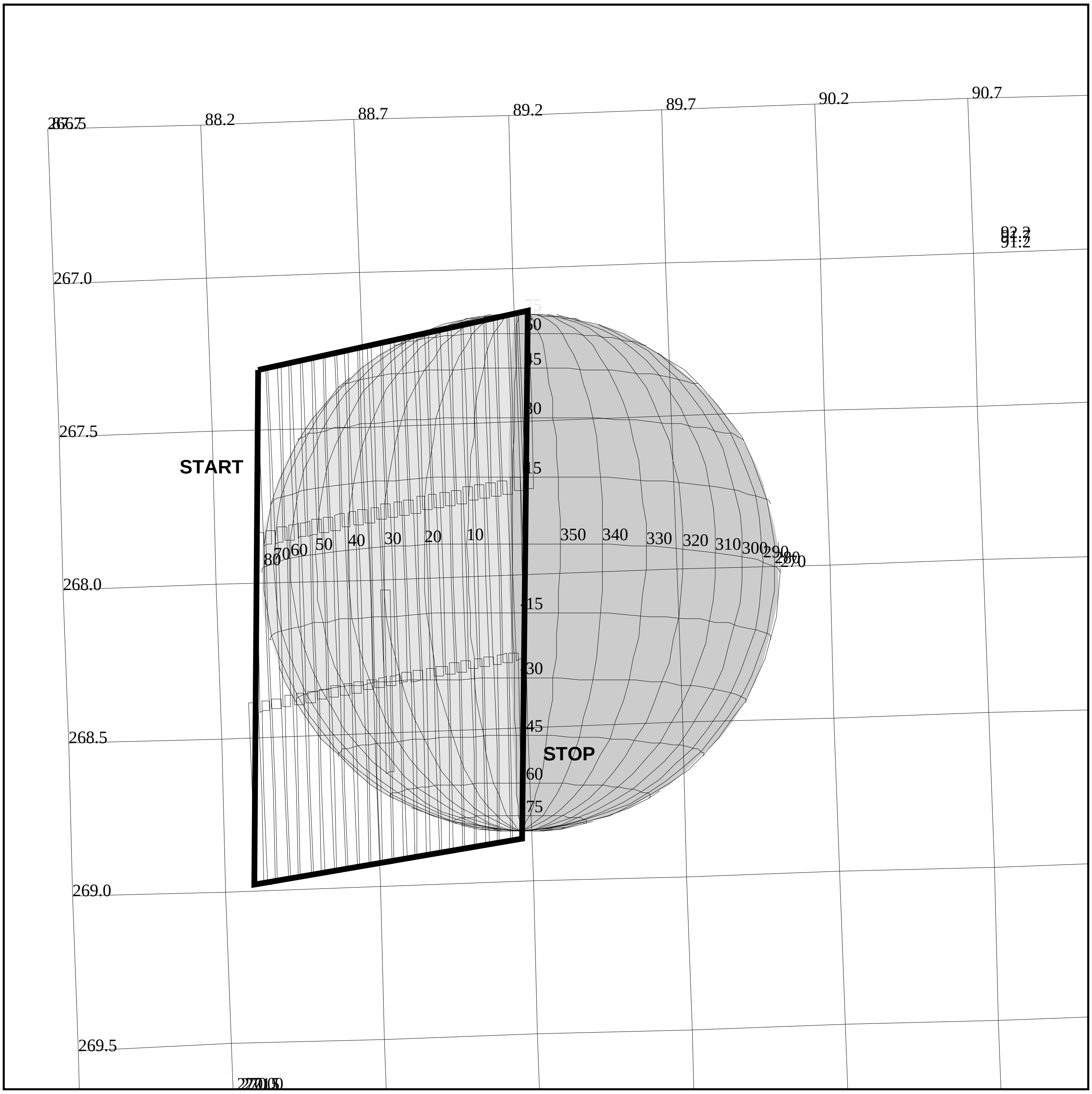
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244C, G8ILMDK228C

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95



165DF:TT= 0 TMC= 1 C= -14.50 XC= -7.00 BS= 0/7392 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 36.30 DEC50= 23.46 cone= 88.32 clock=267.63
117DF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7392
1:#s= 3 Cs= 12.00 XCs= 0.00 Cr= -15.50 XCr= 12.00 sD= 1208 rD= 30

G8CNGLOBAL02

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8CNGLOBAL02

TARGET BODY : CALLISTO

MINI:m.target

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

PERIAPSIS:

THINNING:NIM 2

START:CEE 97-126/12:10:53.533 +CDS 342:00:0

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

OBSERVATION:G8CNGLOBAL02

DESCRIP:Callisto Global Coverage

CALLISTO GLOBAL COVERAGE	ACTIVITY ID: G8CNGLOBAL02- START TIME: 97-126/17:51:38.199

Activity ID: Orbit G8 Target C Inst N OAPEL GLOBAL SeqNo 02 -

Title	CALLISTO GLOBAL COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 05/06/97 Week 19

Start	CEE+CDS 00000337:00:0	97-126/17:51:38.199	CEE+000/05:40:44.666
End	CEE+CDS 00000375:00:0	97-126/18:30:03.533	CEE+000/06:19:10.000
Duration	00000038:00:0	000/00:38:25.334	000/00:38:25.334

Top Label G8CNGLOBAL02-
Bottom Label

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

Observation Objective

The objective is to obtain the best combined spatial and spectral resolution of Callisto's surface, to investigate the mineralogy and to determine the distribution of compositional units.

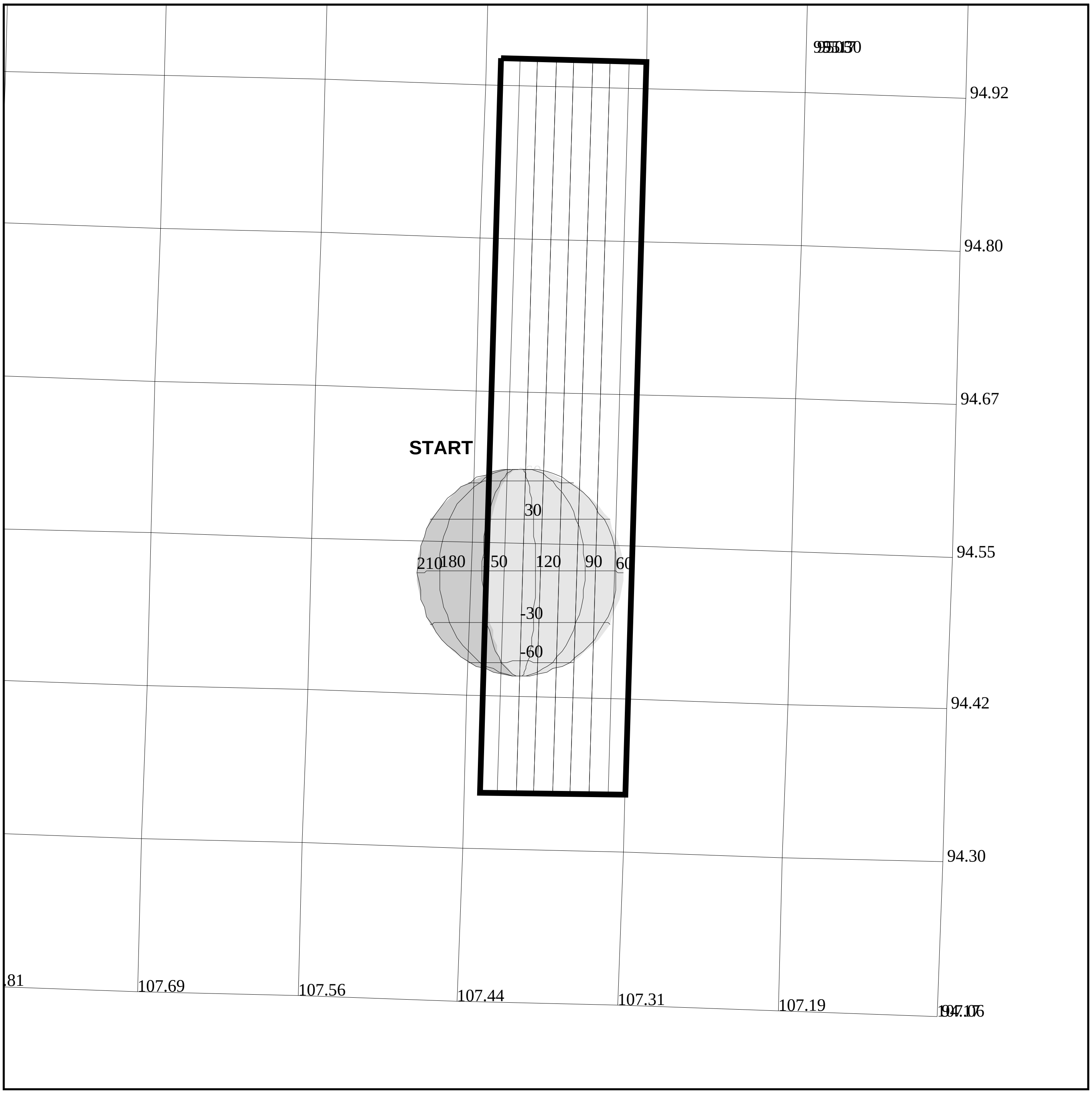
Data Returned

Design Detail

Instrument Mode: Short Map
Spatial Resolution: 43.81 km/nimsel
Instrument Gain State: 2
Spectral Resolution: 51 wavelengths
Phase Angle: 84.52
Coverage in Nimsels:
Continuous slew, full disk mosaic 3 hours after Callisto closest approach. Cover all lit longitudes and latitudes. Observation contains 8 swaths. Nyquist scan rate 20% overlap.

Long Map (LM), Gain 4, Grating Start 0, LPU, G8CLM244B, G8CLM216B

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95



165DH:TT= 0 TMC= 1 C= 0.35 XC= 2.00 BS= 0/9808 TC= 3
A= 162 pD= 0 SR=17.450 RA50=234.64 DEC50=-20.78 cone=107.42 clock= 94.64
117DH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9808
1:#s= 1 Cs= -1.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 174 rD= 2

G8INCHEMIS01

DESIGN G3.1 jdods: 5/ 9/1997 12:15:17

FILE:P.G8INCHEMIS01

TARGET BODY : IO

MINI:m.G8INCHEMIS01

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 -CDS 517:00:0

OBSERVATION:G8INCHEMIS01

THINNING:NIM 1

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

DESCRIP:Monitoring of Io's Dayside

MONITORING OF IO'S DAYSIDE	ACTIVITY ID:	G8INCHEMIS01-
	START TIME:	97-126/22:44:51.467

Activity ID: Orbit G8 Target I Inst N OAPEL CHEMIS SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	05/06/97	Week	19

Start	IEE-CDS 00000520:00:0	97-126/22:44:51.467	IEE-000/08:45:46.666
End	IEE-CDS 00000516:00:0	97-126/22:48:54.133	IEE-000/08:41:44.000
Duration	00000004:00:0	000/00:04:02.666	000/00:04:02.666

Top Label	G8INCHEMIS01-
Bottom Label	

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

Observation Objective

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

Data Returned

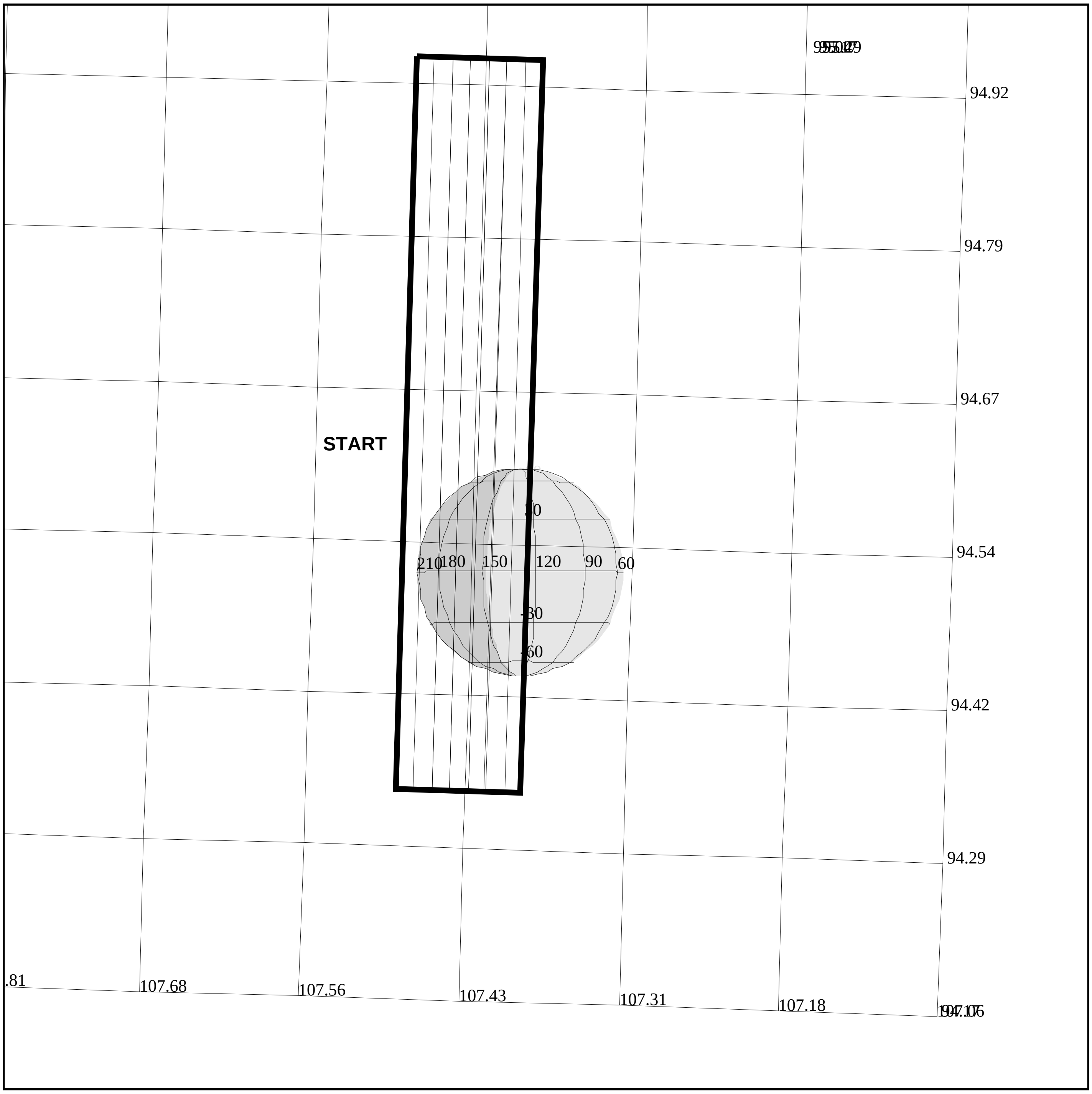
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, G8ILM244B, G8ILM216B

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95



165DI:TT= 0 TMC= 1 C= 1.50 XC= 2.00 BS= 0/0172 TC= 3
A= 182 pD= 0 SR=17.450 RA50=234.70 DEC50=-20.79 cone=107.48 clock= 94.64
117DI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0172
1:#s= 1 Cs= -1.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 144 rD= 2

G8INTHRMAL02

DESIGN G3.1 jdods: 5/ 9/1997 12:10:31

FILE:P.G8INTHRMAL02

TARGET BODY : IO

MINI:m.G8INTHRMAL02

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 -CDS 515:00:0

OBSERVATION:G8INTHRMAL02

THINNING:NIM 1

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

DESCRIP:Monitoring of Io's Nightside

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: G8INTHRMAL02- START TIME: 97-126/22:48:54.133

Activity ID: Orbit G8 Target I Inst N OAPEL THRMAL SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	05/06/97	Week	19

Start	IEE-CDS 00000516:00:0	97-126/22:48:54.133	IEE-000/08:41:44.000
End	IEE-CDS 00000514:00:0	97-126/22:50:55.467	IEE-000/08:39:42.666
Duration	00000002:00:0	000/00:02:01.334	000/00:02:01.334

Top Label G8INTHRMAL02-
Bottom Label

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

Observation Objective

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

Data Returned

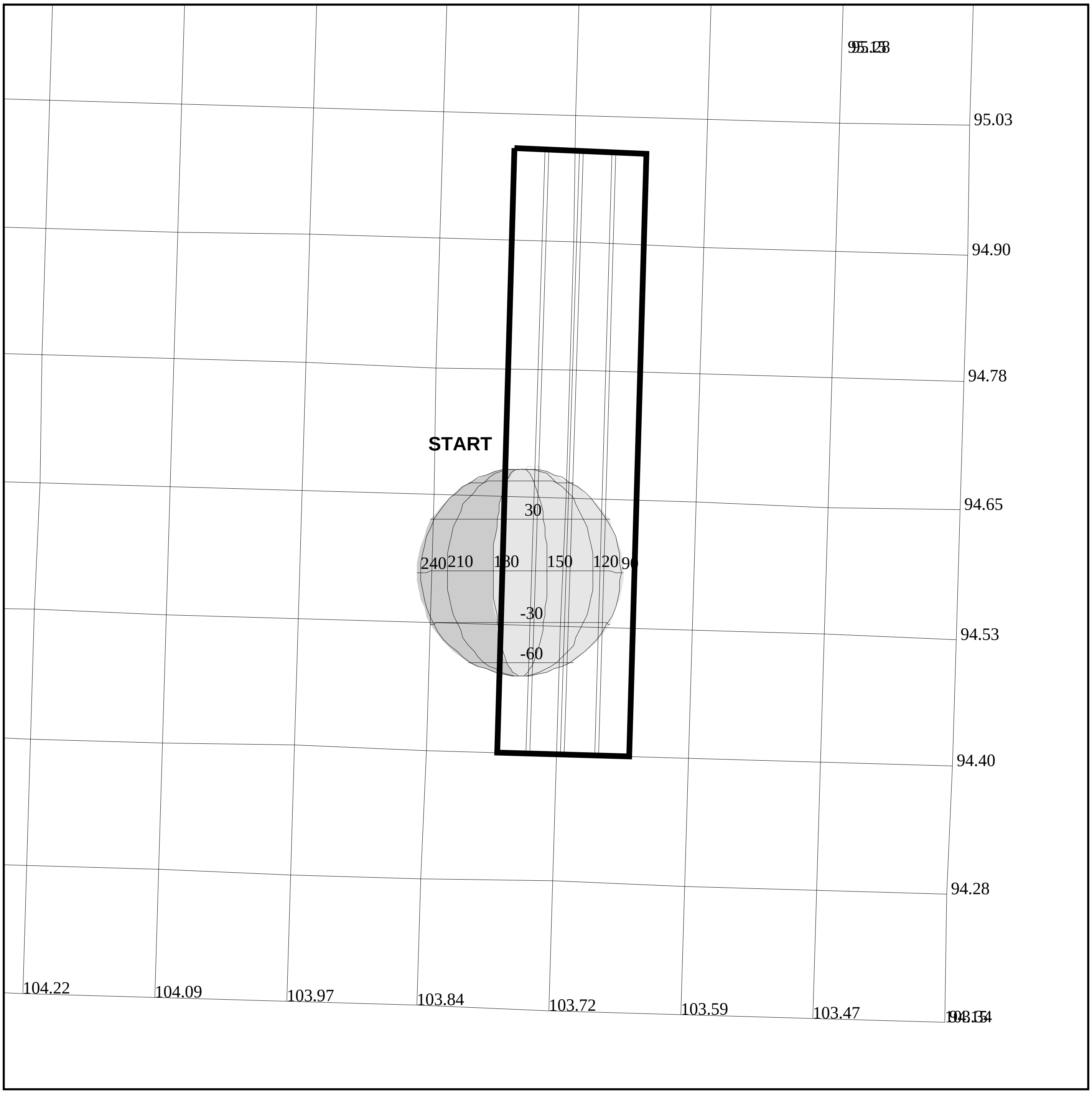
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244C, G8ILMDK228C

Galileo Activity Plan Form   05/09/97 16:17:51   rev 6/95



165DJ:TT= 0 TMC= 1 C= 0.20 XC= 2.00 BS= 0/1850 TC= 3
A= 546 pD= 0 SR=17.450 RA50=230.85 DEC50=-19.92 cone=103.77 clock= 94.70
117DJ:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/1850
1:#s= 1 Cs= -2.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 180 rD= 2

G8INCHEMIS02

DESIGN G3.1 jdods: 5/ 9/1997 12:14:48

FILE:P.G8INCHEMIS02

TARGET BODY : IO

MINI:m.G8INCHEMIS02

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 -CDS 286:00:0

OBSERVATION:G8INCHEMIS02

THINNING:NIM 2

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

DESCRIP:Monitoring of Io’s Dayside

MONITORING OF IO'S DAYSIDE **ACTIVITY ID: G8INCHEMIS02-**
START TIME: 97-127/02:37:24.800

Activity ID: Orbit G8 Target I Inst N OAPEL CHEMIS SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	05/07/97 Week 19

Start	IEE-CDS 00000290:00:0	97-127/02:37:24.800	IEE-000/04:53:13.333
End	IEE-CDS 00000284:00:0	97-127/02:43:28.800	IEE-000/04:47:09.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8INCHEMIS02-
Bottom Label

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

Observation Objective

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

Data Returned

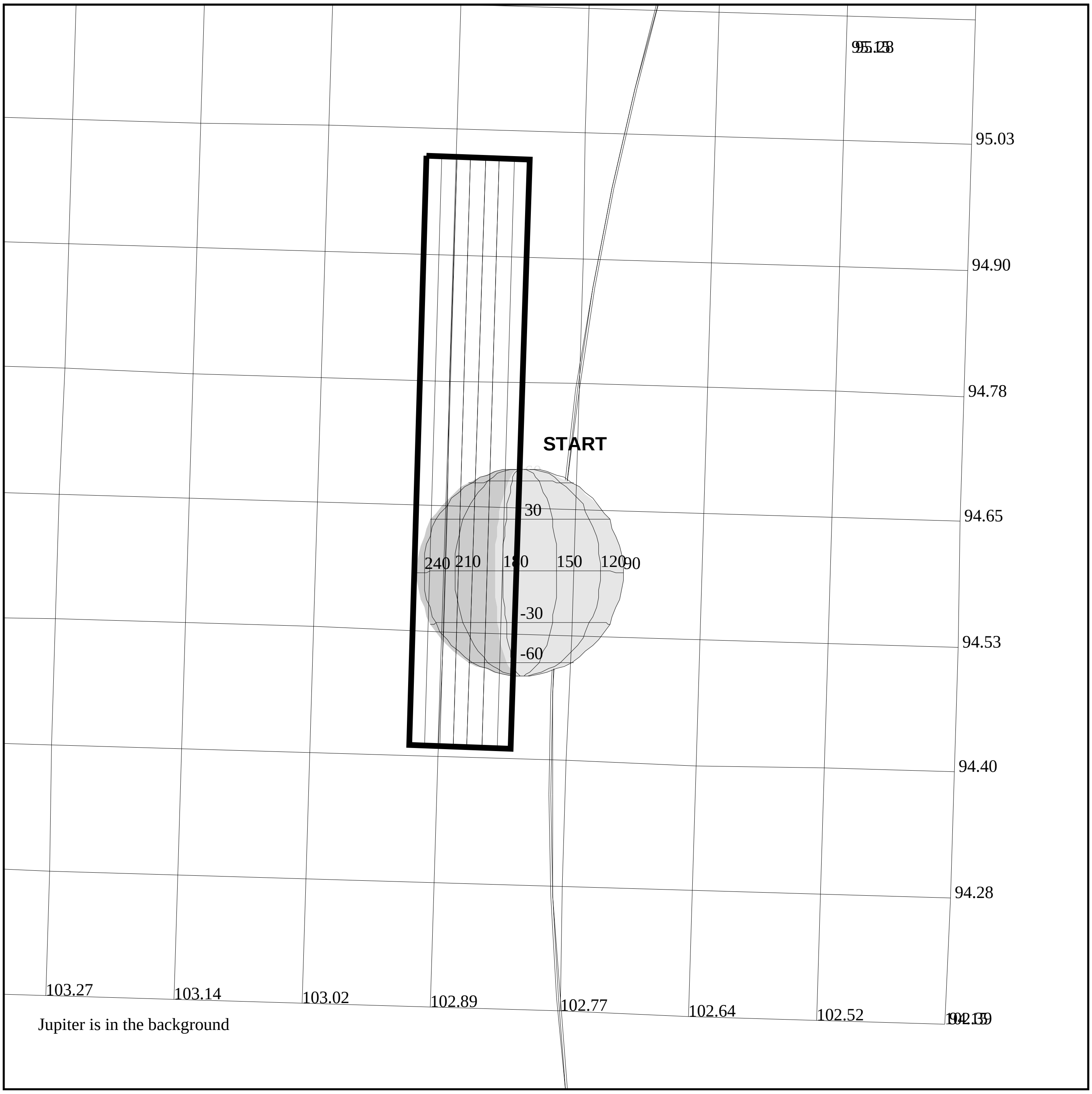
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, G8ILM244B, G8ILM216B

Galileo Activity Plan Form 05/09/97 16:17:51 rev 6/95



165DL:TT= 0 TMC= 1 C= 0.20 XC= 2.00 BS= 0/8038 TC= 3
A= 364 pD= 0 SR=17.450 RA50=229.89 DEC50=-19.69 cone=102.83 clock= 94.71
117DL:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/8038
1:#s= 1 Cs= 1.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 154 rD= 2

G8INTHRMAL03

DESIGN G3.1 jdods: 5/ 9/1997 12: 9:45

FILE:P.G8INTHRMAL03

TARGET BODY : IO

MINI:m.G8INTHRMAL03

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 -CDS 252:00:0

OBSERVATION:G8INTHRMAL03

THINNING:NIM 1

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

DESCRIP:Monitoring of Io's Nightside

MONITORING OF IO'S NIGHTSIDE		ACTIVITY ID:	G8INTHRMAL03-
		START TIME:	97-127/03:09:46.133

Activity ID: Orbit G8 Target I Inst N OAPEL THRMAL SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	05/07/97	Week 19

Start	IEE-CDS 00000258:00:0	97-127/03:09:46.133	IEE-000/04:20:52.000
End	IEE-CDS 00000251:12:0	97-127/03:16:42.800	IEE-000/04:13:55.333
Duration	00000006:79:0	000/00:06:56.667	000/00:06:56.667

Top Label	G8INTHRMAL03-
Bottom Label	

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

Observation Objective

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

Data Returned

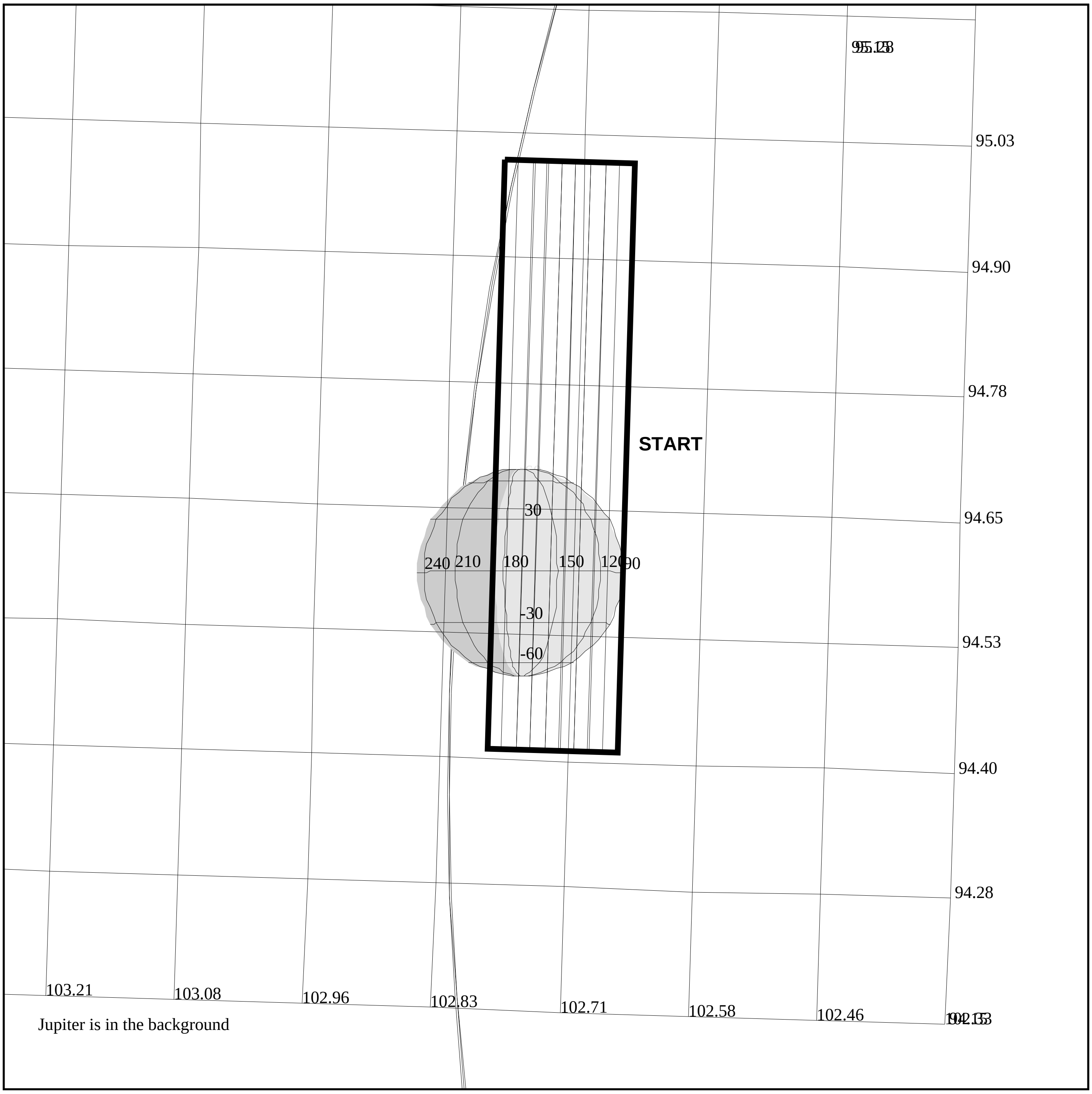
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244C, G8ILMDK228C

Galileo Activity Plan Form 05/09/97 16:17:52 rev 6/95



165DM:TT= 0 TMC= 1 C= -1.60 XC= 2.00 BS= 0/8402 TC= 3
A= 182 pD= 0 SR=17.450 RA50=229.72 DEC50=-19.66 cone=102.67 clock= 94.71
117DM:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/8402
1:#s= 1 Cs= 1.28 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 196 rD= 2

G8INCHEMIS03

DESIGN G3.1 jdods: 5/ 9/1997 12:14:17

FILE:P.G8INCHEMIS03

TARGET BODY : IO

MINI:m.G8INCHEMIS03

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

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-127/07:30:38.133 -CDS 250:00:0

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

OBSERVATION:G8INCHEMIS03

DESCRIP:Monitoring of Io’s Dayside

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: G8INCHEMIS03- START TIME: 97-127/03:16:42.800

Activity ID: Orbit G8 Target I Inst N OAPEL CHEMIS SeqNo 03 -

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

Time System CDS Load ID Calendar Date 05/07/97 Week 19

Start	IEE-CDS 00000251:12:0	97-127/03:16:42.800	IEE-000/04:13:55.333
End	IEE-CDS 00000248:00:0	97-127/03:19:52.800	IEE-000/04:10:45.333
Duration	00000003:12:0	000/00:03:10.000	000/00:03:10.000

Top Label G8INCHEMIS03-
Bottom Label

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

Observation Objective

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

Data Returned

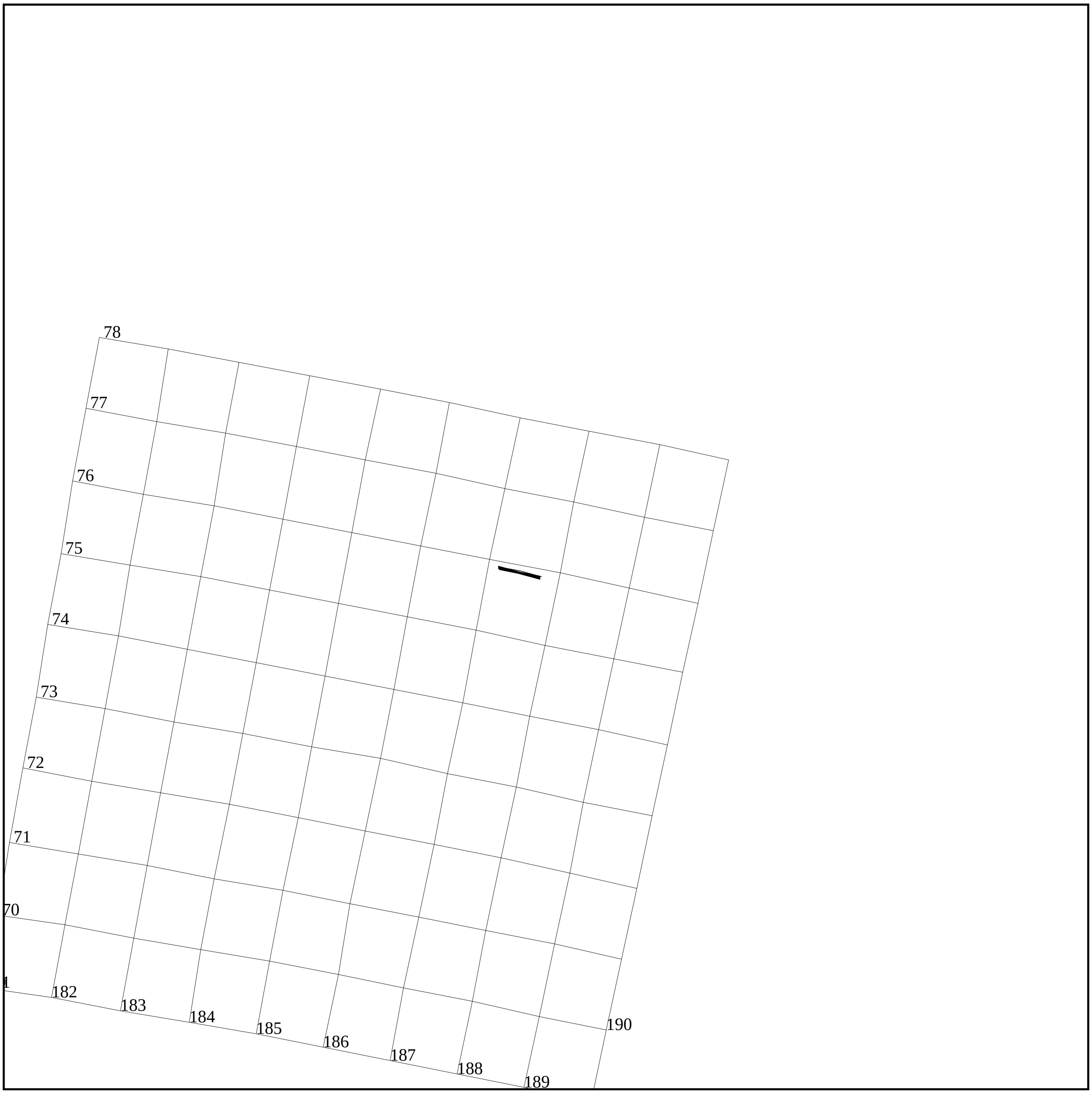
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, G8ILM244B, G8ILM216B

Galileo Activity Plan Form 05/09/97 16:17:52 rev 6/95



165DK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3498 TC=15(76 232)
A= 364 pD= 0 SR=17.450 RA50=232.00 DEC50= 76.00 cone= 75.91 clock=187.45

G8HNDARK__02

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 -CDS 1895:00:0

OBSERVATION:G8HNDARK__02

THINNING:NIM 1

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

DESCRIP:DARK OBSERVATION

NIMS Dark Observation	ACTIVITY ID: G8HNDARK__02- START TIME: 97-127/03:40:06.067

Activity ID: Orbit G8 Target H Inst N OAPEL DARK__ SeqNo 02 -

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

Time System CDS Load ID Calendar Date 05/07/97 Week 19

Start	JEE-CDS 00001901:00:0	97-127/03:40:06.067	JEE-001/08:02:07.333
End	JEE-CDS 00001890:00:0	97-127/03:51:13.400	JEE-001/07:51:00.000
Duration	00000011:00:0	000/00:11:07.333	000/00:11:07.333

Top Label G8NNHNDARK 02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

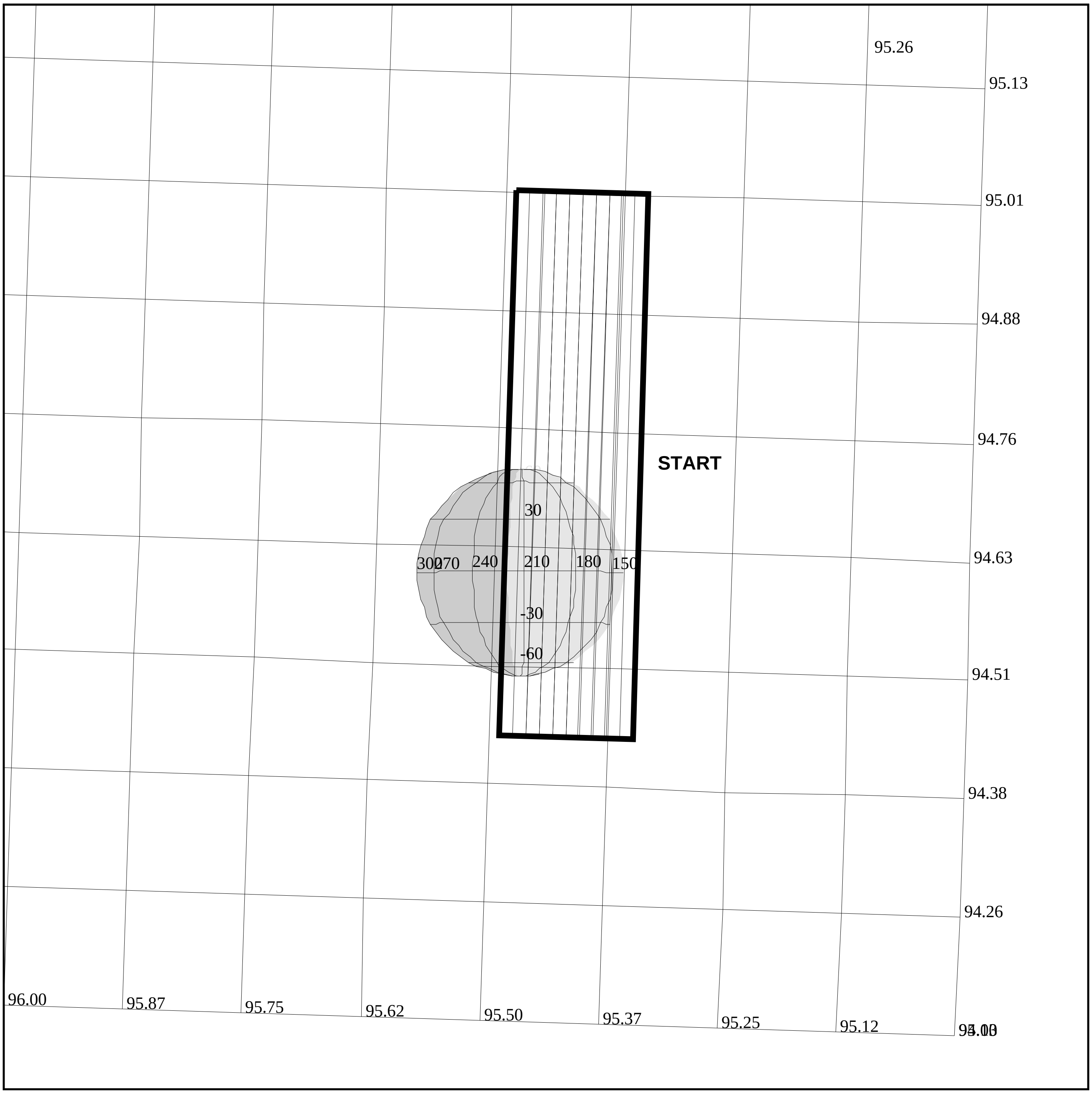
Data Returned

Design Detail

Target to Dark Sky.

Long Map (LM), Gain 2, Grating Start 0, LPU, G8DRK34, G8DRK32

Galileo Activity Plan Form 05/09/97 16:17:52 rev 6/95



165DN:TT= 0 TMC= 1 C= -2.00 XC= 2.00 BS= 0/1718 TC= 3
A= 546 pD= 0 SR=17.450 RA50=222.27 DEC50=-17.75 cone= 95.36 clock= 94.72
117DN:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/1718
1:#s= 1 Cs= 1.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 230 rD= 2

G8INCHEMIS07

DESIGN G3.1 jdods: 5/ 9/1997 12:11:51

FILE:P.G8INCHEMIS07

TARGET BODY : IO

MINI:m.G8INCHEMIS07

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 -CDS 12:00:0

OBSERVATION:G8INCHEMIS07

THINNING:NIM 1

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

DESCRIP:Monitoring of Io’s Dayside

MONITORING OF IO’S DAYSIDE	ACTIVITY ID: G8INCHEMIS07- START TIME: 97-127/07:14:27.467

Activity ID: Orbit G8 Target I Inst N OAPEL CHEMIS SeqNo 07 -

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

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	IEE-CDS 00000016:00:0	97-127/07:14:27.467	IEE-000/00:16:10.666
End	IEE-CDS 00000010:50:0	97-127/07:19:58.133	IEE-000/00:10:40.000
Duration	00000005:41:0	000/00:05:30.666	000/00:05:30.666

Top Label G8INCHEMIS07-
Bottom Label

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

Observation Objective

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

Data Returned

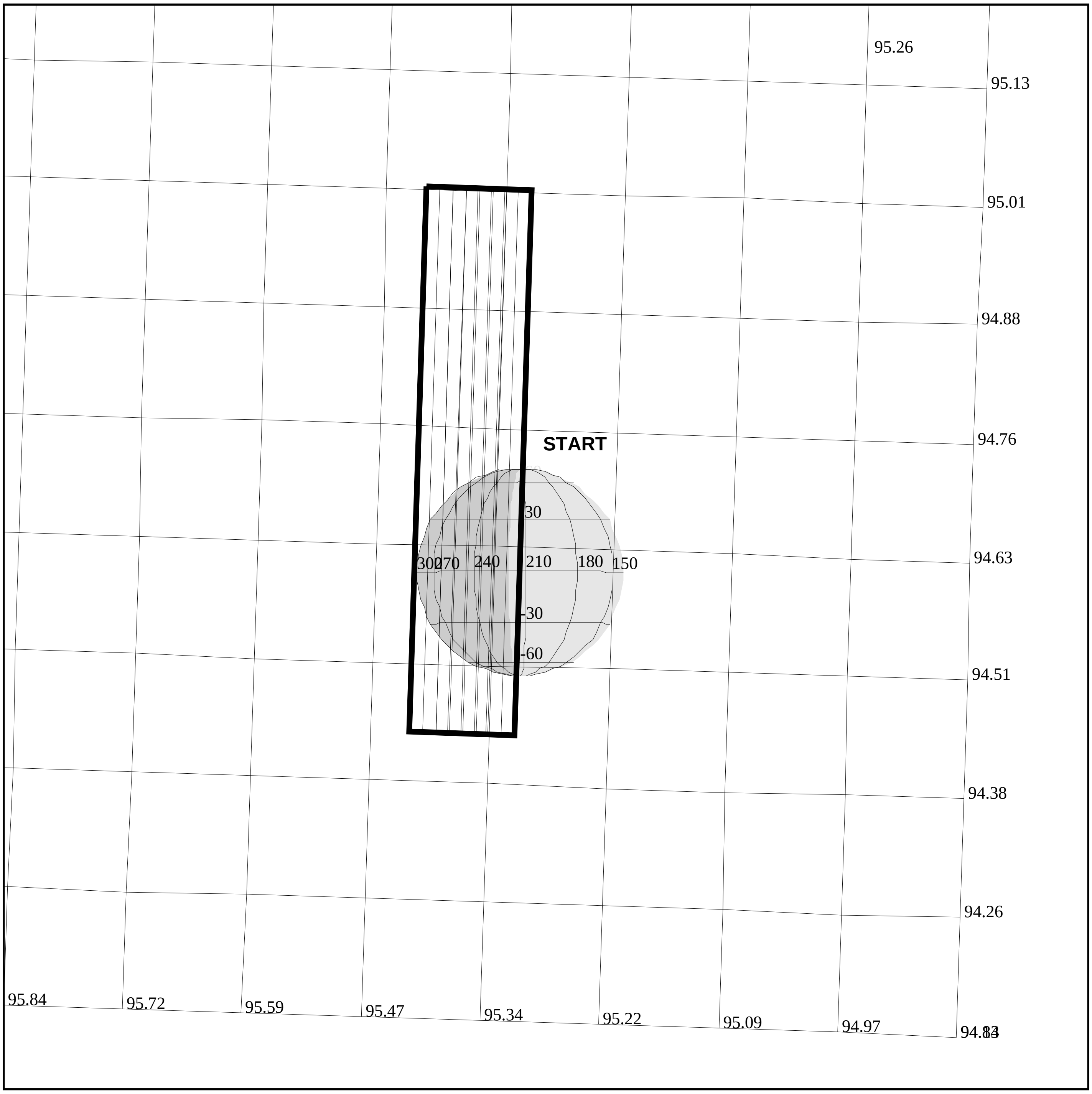
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, G8ILM244B, G8ILM216B

Galileo Activity Plan Form   05/09/97 16:17:52   rev 6/95



165DO:TT= 0 TMC= 1 C= 0.15 XC= 2.00 BS= 0/2810 TC= 3
A= 728 pD= 0 SR=17.450 RA50=222.23 DEC50=-17.74 cone= 95.32 clock= 94.72
117DO:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/2810
1:#s= 1 Cs= 1.15 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 178 rD= 2

G8INTHRMAL07

DESIGN G3.1 jdods: 5/ 9/1997 12: 7:32

FILE:P.G8INTHRMAL07

TARGET BODY : IO

MINI:m.G8INTHRMAL07

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 -CDS 06:00:0

OBSERVATION:G8INTHRMAL07

THINNING:NIM 1

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

DESCRIP:Monitoring of Io’s Nightside

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: G8INTHRMAL07- START TIME: 97-127/07:20:31.867

Activity ID: Orbit G8 Target I Inst N OAPEL THRMAL SeqNo 07 -

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

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	IEE-CDS	00000010:00:0	97-127/07:20:31.867	IEE-000/00:10:06.666
End	IEE-CDS	00000005:00:0	97-127/07:25:35.200	IEE-000/00:05:03.333
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G8INTHRMAL07-
Bottom Label

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

Observation Objective

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

Data Returned

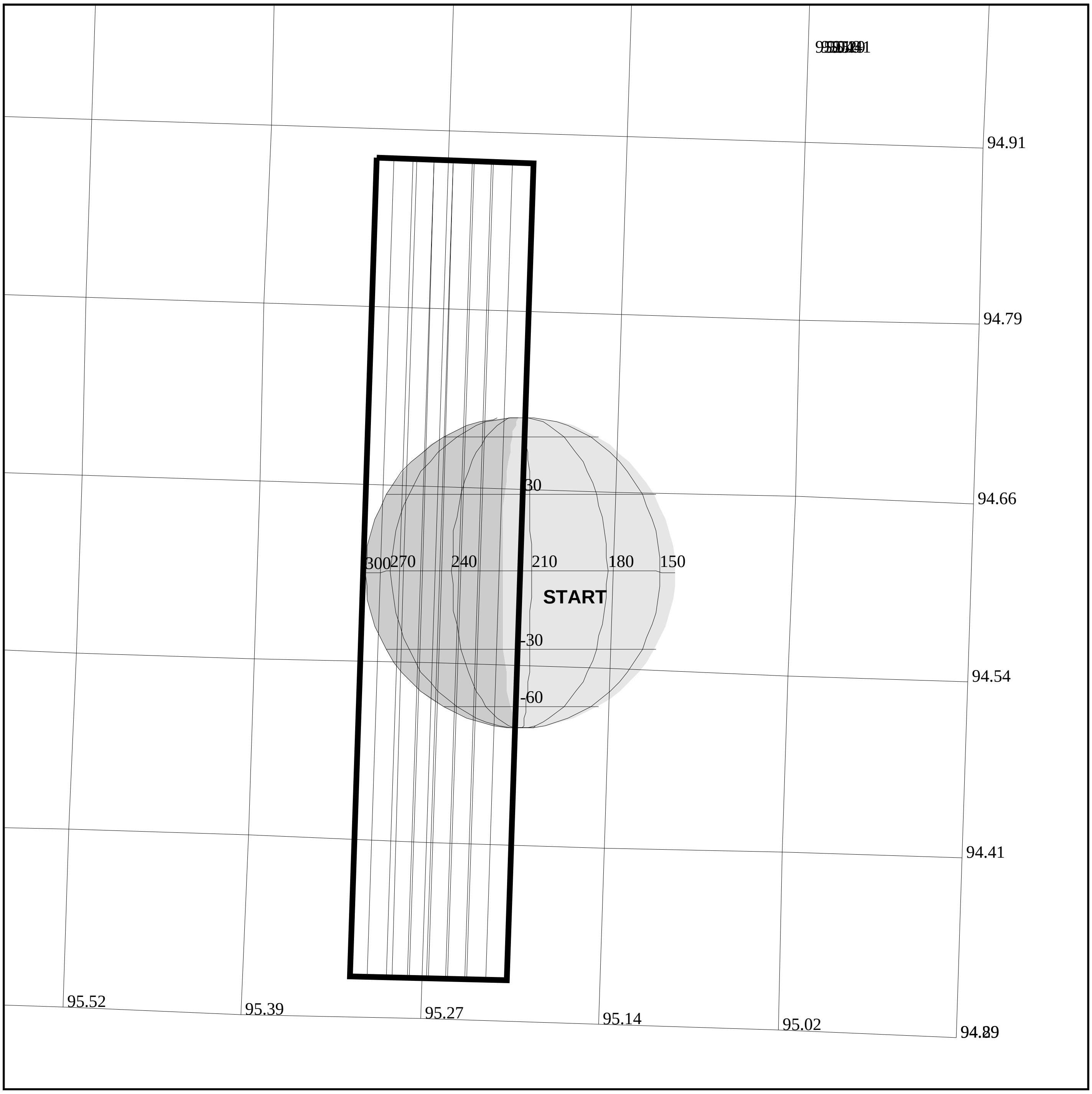
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244C, G8ILMDK228C

Galileo Activity Plan Form 05/09/97 16:17:52 rev 6/95



165DP:TT= 0 TMC= 1 C= 0.15 XC= 0.00 BS= 0/3538 TC= 3
A= 364 pD= 0 SR=17.450 RA50=222.09 DEC50=-17.82 cone= 95.22 clock= 94.60
117DP:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/3538
1:#s= 1 Cs= 1.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 170 rD= 2

G8INVOLCAN01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8INVOLCAN01

TARGET BODY : IO

MINI:m.target

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 -CDS 02:00:0

OBSERVATION:G8INVOLCAN01

THINNING:NIM 1

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

DESCRIP:Monitoring of Selected Volcanic

MONITORING OF SELECTED VOLCANIC REGIONS		ACTIVITY ID:	G8INVOLCAN01-
		START TIME:	97-127/07:25:34.800

Activity ID: Orbit G8 Target I Inst N OAPEL VOLCAN SeqNo 01 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	IEE-CDS	00000005:00:0	97-127/07:25:34.800	IEE-000/00:05:03.333
End	IEE-CDS	00000001:00:0	97-127/07:29:37.467	IEE-000/00:01:00.666
Duration		00000004:00:0	000/00:04:02.667	000/00:04:02.667

Top Label	G8INVOLCAN01-
Bottom Label	

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

Observation Objective

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

Data Returned

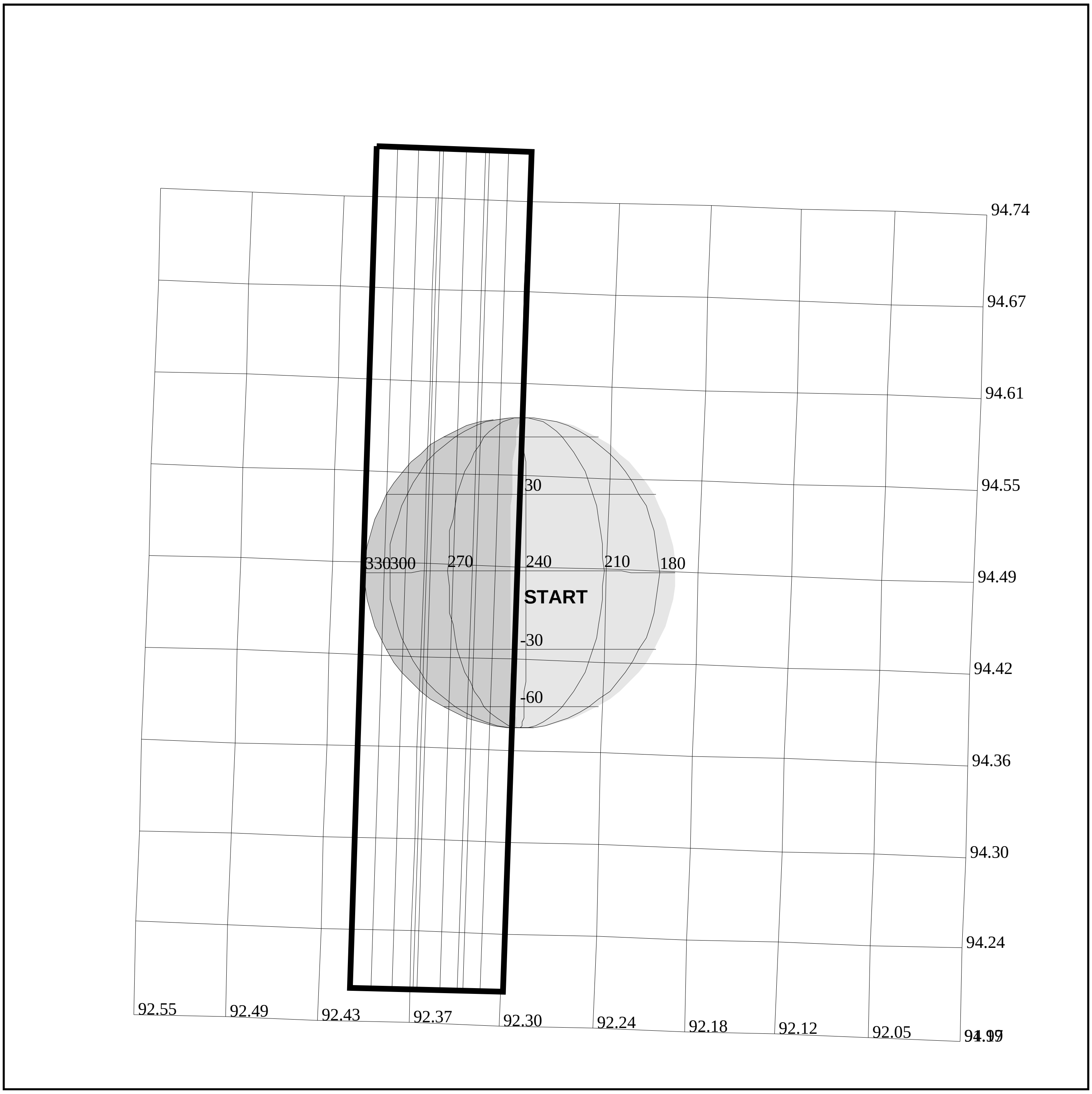
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244B, G8ILMDK228B

Galileo Activity Plan Form   05/09/97 16:17:52   rev 6/95



165DQ:TT= 0 TMC= 1 C= 0.15 XC= 0.00 BS= 0/6116 TC= 3
A= 728 pD= 0 SR=17.450 RA50=219.13 DEC50=-17.11 cone= 92.31 clock= 94.48
117DQ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6116
1:#s= 1 Cs= 1.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 154 rD= 2

G8INVOLCAN02

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8INVOLCAN02

TARGET BODY : IO

MINI:m.target

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 +CDS 177:00:0

OBSERVATION:G8INVOLCAN02

THINNING:NIM 1

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

DESCRIP:Monitoring of Selected Volcanic

```
MONITORING OF SELECTED VOLCANIC REGIONS  ACTIVITY ID:   G8INVOLCAN02-
                                          START TIME:   97-127/10:24:32.799

Activity ID: Orbit G8  Target I  Inst N  OAPEL VOLCAN  SeqNo 02 -

Title        MONITORING OF SELECTED VOLCANIC REGIONS Instrument      NIMS
Requestor    NIMS-SWG/R.                 Team   NIMS  Working Group    SWG

Time System  CDS       Load ID         Calendar Date  05/07/97  Week  19

Start        IEE+CDS 00000172:00:0 97-127/10:24:32.799   IEE+000/02:53:54.666
End          IEE+CDS 00000178:00:0 97-127/10:30:36.799   IEE+000/02:59:58.666
Duration            00000006:00:0     000/00:06:04.000        000/00:06:04.000

Top Label    G8INVOLCAN02-
Bottom Label

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

Observation Objective

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

Data Returned

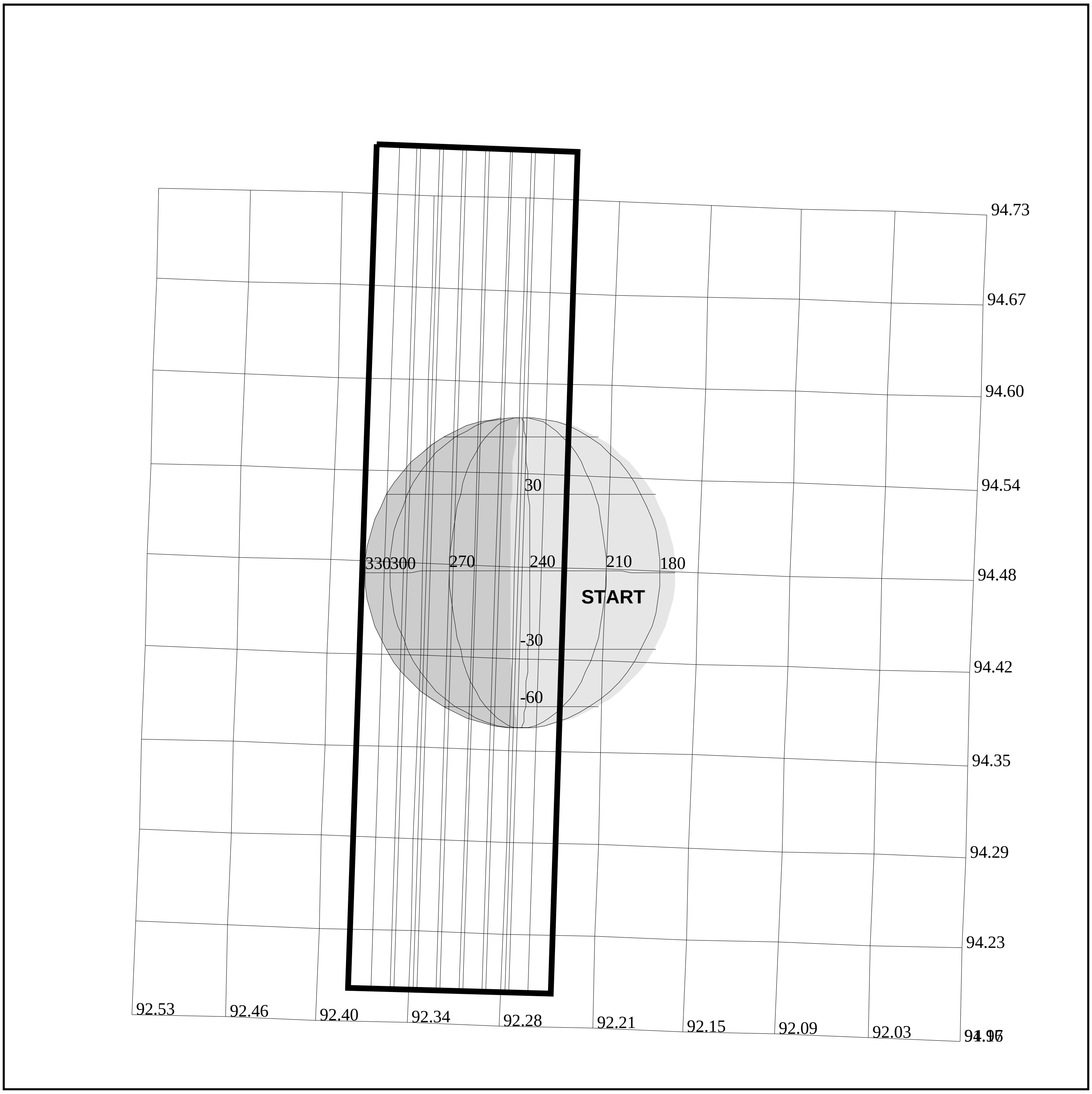
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244B, G8ILMDK228B

Galileo Activity Plan Form   05/09/97 16:17:52   rev 6/95



165DR:TT= 0 TMC= 1 C= -0.40 XC= 0.00 BS= 0/7208 TC= 3
A= 728 pD= 0 SR=17.450 RA50=219.07 DEC50=-17.10 cone= 92.25 clock= 94.48
117DR:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7208
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 204 rD= 2

G8INVOLCAN03

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8INVOLCAN03

TARGET BODY : IO

MINI:m.target

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 +CDS 183:00:0

OBSERVATION:G8INVOLCAN03

THINNING:NIM 1

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

DESCRIP:Monitoring of Selected Volcanic

MONITORING OF SELECTED VOLCANIC REGIONS **ACTIVITY ID: G8INVOLCAN03-**
START TIME: 97-127/10:30:36.799

Activity ID: Orbit G8 Target I Inst N OAPEL VOLCAN SeqNo 03 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	IEE+CDS 00000178:00:0	97-127/10:30:36.799	IEE+000/02:59:58.666
End	IEE+CDS 00000186:00:0	97-127/10:38:42.133	IEE+000/03:08:04.000
Duration	00000008:00:0	000/00:08:05.334	000/00:08:05.334

Top Label G8INVOLCAN03-
Bottom Label

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

Observation Objective

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

Data Returned

Design Detail

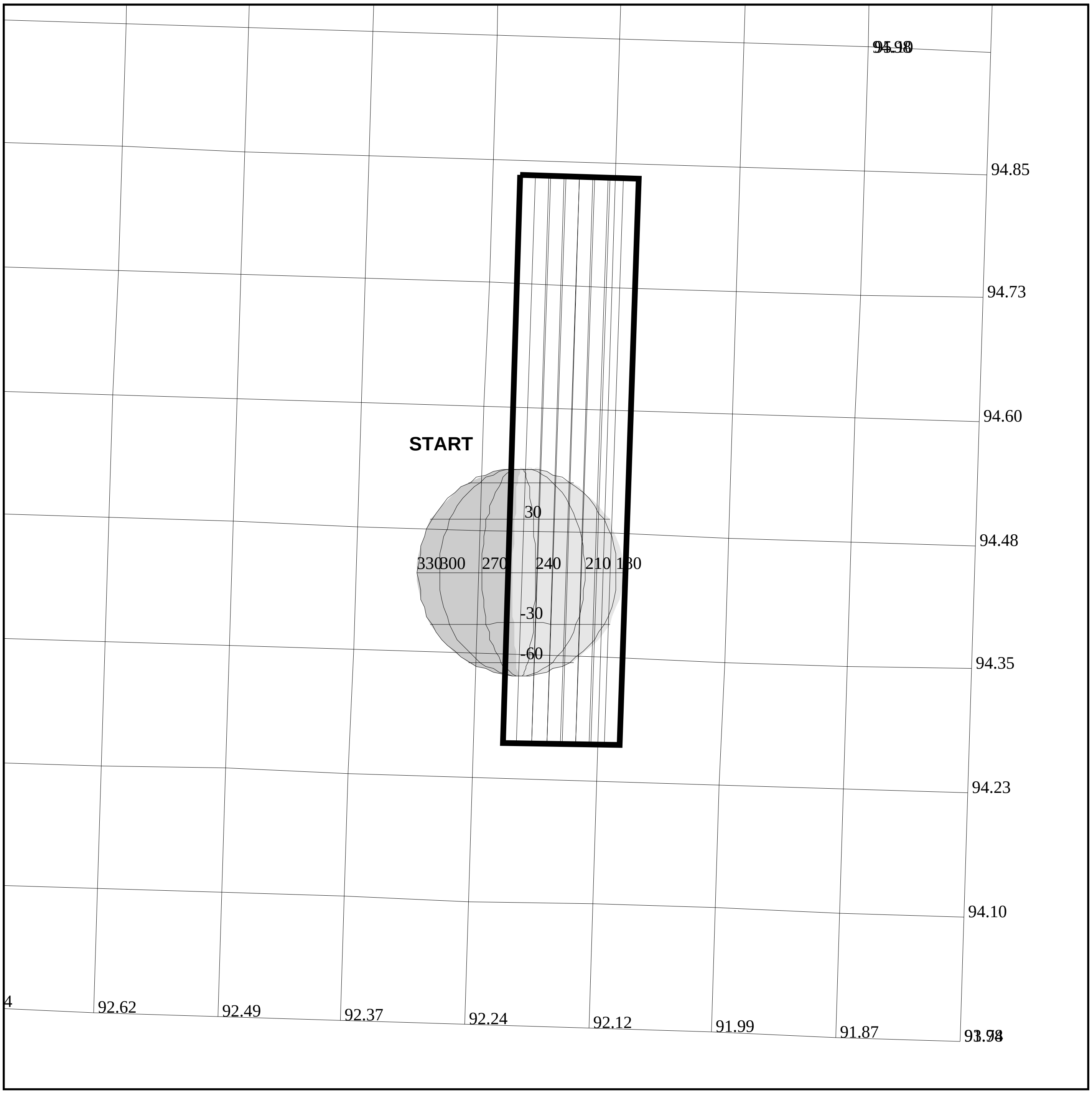
Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit
Tracks: 0.005 per observation.

Locations of features:

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244B, G8ILMDK216B

Galileo Activity Plan Form 05/09/97 16:17:52 rev 6/95



165DS:TT= 0 TMC= 1 C= 0.10 XC= 2.00 BS= 0/3214 TC= 3
A= 728 pD= 0 SR=17.450 RA50=219.05 DEC50=-17.01 cone= 92.21 clock= 94.55
117DS:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3214
1:#s= 1 Cs= -1.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 180 rD= 2

G8INCHEMIS04

DESIGN G3.1 jdods: 5/ 9/1997 12:13:33

FILE:P.G8INCHEMIS04

TARGET BODY : IO

MINI:m.G8INCHEMIS04

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 +CDS 216:01:0

OBSERVATION:G8INCHEMIS04

THINNING:NIM 1

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

DESCRIP:Monitoring of Io’s Dayside

MONITORING OF IO'S DAYSIDE ACTIVITY ID: G8INCHEMIS04-
START TIME: 97-127/11:04:59.466

Activity ID: Orbit G8 Target I Inst N OAPEL CHEMIS SeqNo 04 -

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

Time System CDS Load ID Calendar Date 05/07/97 Week 19

Start	IEE+CDS	00000212:00:0	97-127/11:04:59.466	IEE+000/03:34:21.333
End	IEE+CDS	00000217:00:0	97-127/11:10:02.799	IEE+000/03:39:24.666
Duration		00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G8INCHEMIS04-
Bottom Label

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

Observation Objective

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

Data Returned

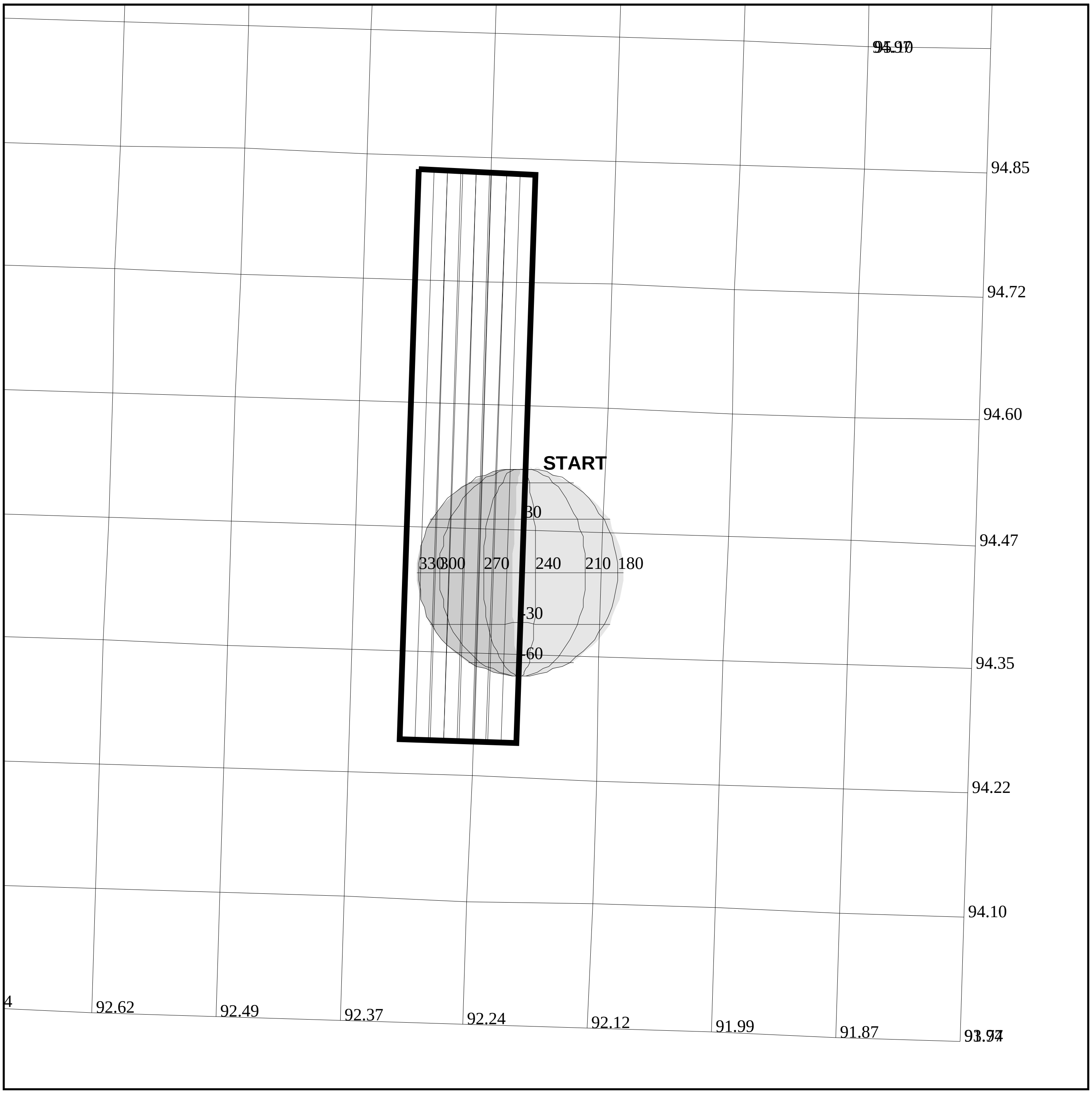
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, G8ILM244B, G8ILM216B

Galileo Activity Plan Form 05/09/97 16:17:52 rev 6/95



165DT:TT= 0 TMC= 1 C= 0.10 XC= 2.00 BS= 0/4306 TC= 3
A= 728 pD= 0 SR=17.450 RA50=219.05 DEC50=-17.02 cone= 92.21 clock= 94.55
117DT:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4306
1:#s= 1 Cs= 1.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 174 rD= 2

G8INTHRMAL04

DESIGN G3.1 jdods: 5/ 9/1997 12: 8:58

FILE:P.G8INTHRMAL04

TARGET BODY : IO

MINI:m.G8INTHRMAL04

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 +CDS 222:00:0

OBSERVATION:G8INTHRMAL04

THINNING:NIM 1

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

DESCRIP:Monitoring of Io’s Nightside

MONITORING OF IO’S NIGHTSIDE	ACTIVITY ID: G8INTHRMAL04- START TIME: 97-127/11:10:02.799

Activity ID: Orbit G8 Target I Inst N OAPEL THRMAL SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	IEE+CDS 00000217:00:0	97-127/11:10:02.799	IEE+000/03:39:24.666
End	IEE+CDS 00000224:00:0	97-127/11:17:07.466	IEE+000/03:46:29.333
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	G8INTHRMAL04-
Bottom Label	

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

Observation Objective

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

Data Returned

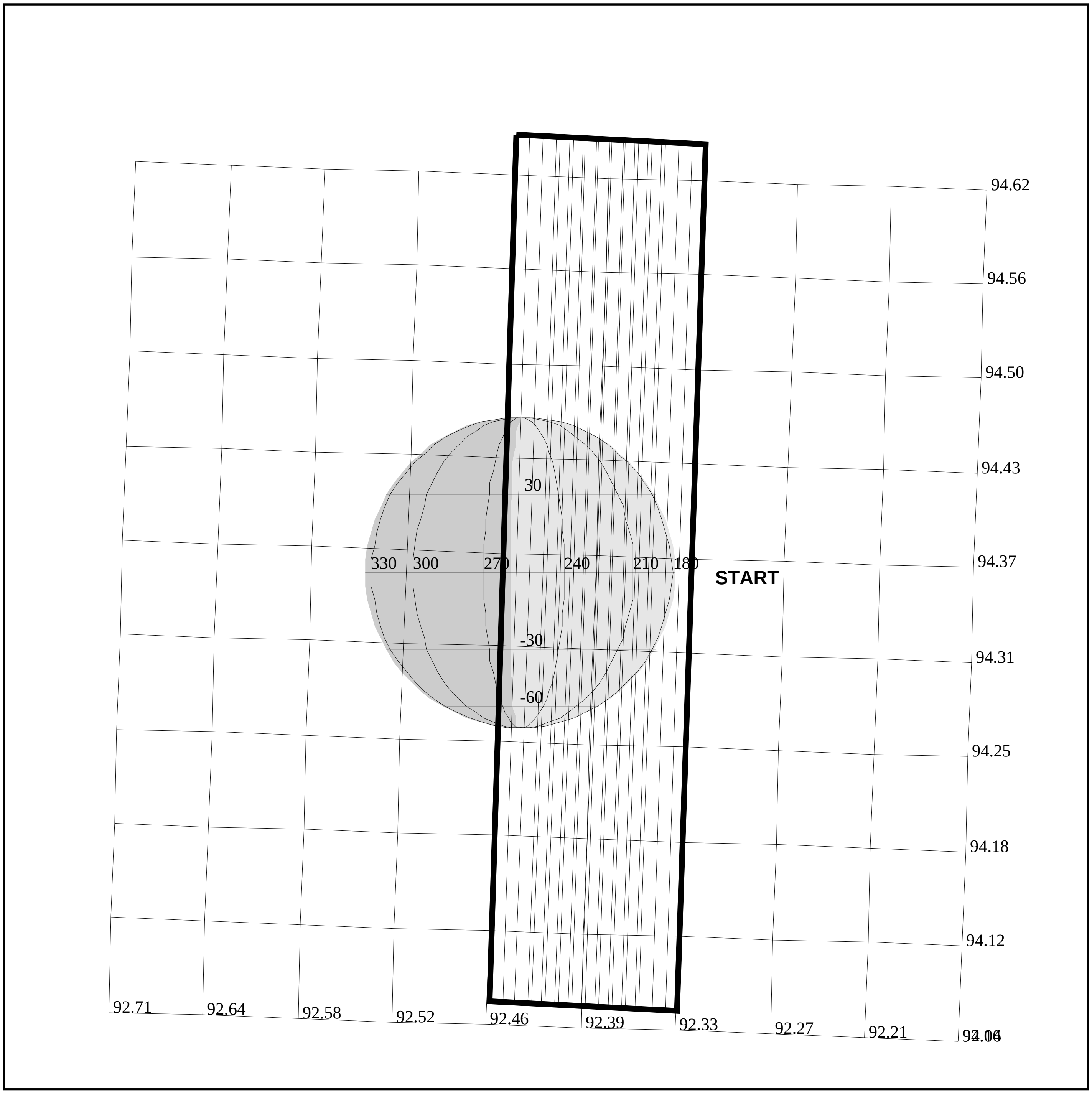
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244C, G8ILMDK216C

Galileo Activity Plan Form   05/09/97 16:17:52   rev 6/95



165DU:TT= 0 TMC= 1 C= -1.80 XC= 0.00 BS= 0/4134 TC= 3
A= 182 pD= 0 SR=17.450 RA50=219.13 DEC50=-17.24 cone= 92.34 clock= 94.36
117DU:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/4134
1:#s= 1 Cs= 2.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 304 rD= 2

G8INVOLCAN04

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8INVOLCAN04

TARGET BODY : IO

MINI:m.target

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

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-127/07:30:38.133 +CDS 276:00:0

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

OBSERVATION:G8INVOLCAN04

DESCRIP:Monitoring of Selected Volcanic

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: G8INVOLCAN04-
START TIME: 97-127/12:04:38.799

Activity ID: Orbit G8 Target I Inst N OAPEL VOLCAN SeqNo 04 -

Title	MONITORING OF SELECTED VOLCANIC REGIONS			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/07/97 Week 19

Start	IEE+CDS 00000271:00:0	97-127/12:04:38.799	IEE+000/04:34:00.666
End	IEE+CDS 00000280:00:0	97-127/12:13:44.799	IEE+000/04:43:06.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label G8INVOLCAN04-
Bottom Label

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

Observation Objective

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

Data Returned

Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILM244B, G8ILM216B

Galileo Activity Plan Form 05/09/97 16:17:53 rev 6/95

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NIMS Real-Time Software Reload   ACTIVITY ID: G8NNNIMSLD01-
                                         START TIME: 97-127/12:55:12.133

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 01 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/J. Hui	Team	NIMS	Working Group	SWG

Time System CDS   Load ID   Calendar Date 05/07/97 Week 19

Start	GTE-CDS 00000179:00:0	97-127/12:55:12.133	GTE-000/03:00:59.333
End	GTE-CDS 00000169:00:0	97-127/13:05:18.800	GTE-000/02:50:52.666
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   G8NNNIMSLD01-
Bottom Label

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

Observation Objective

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

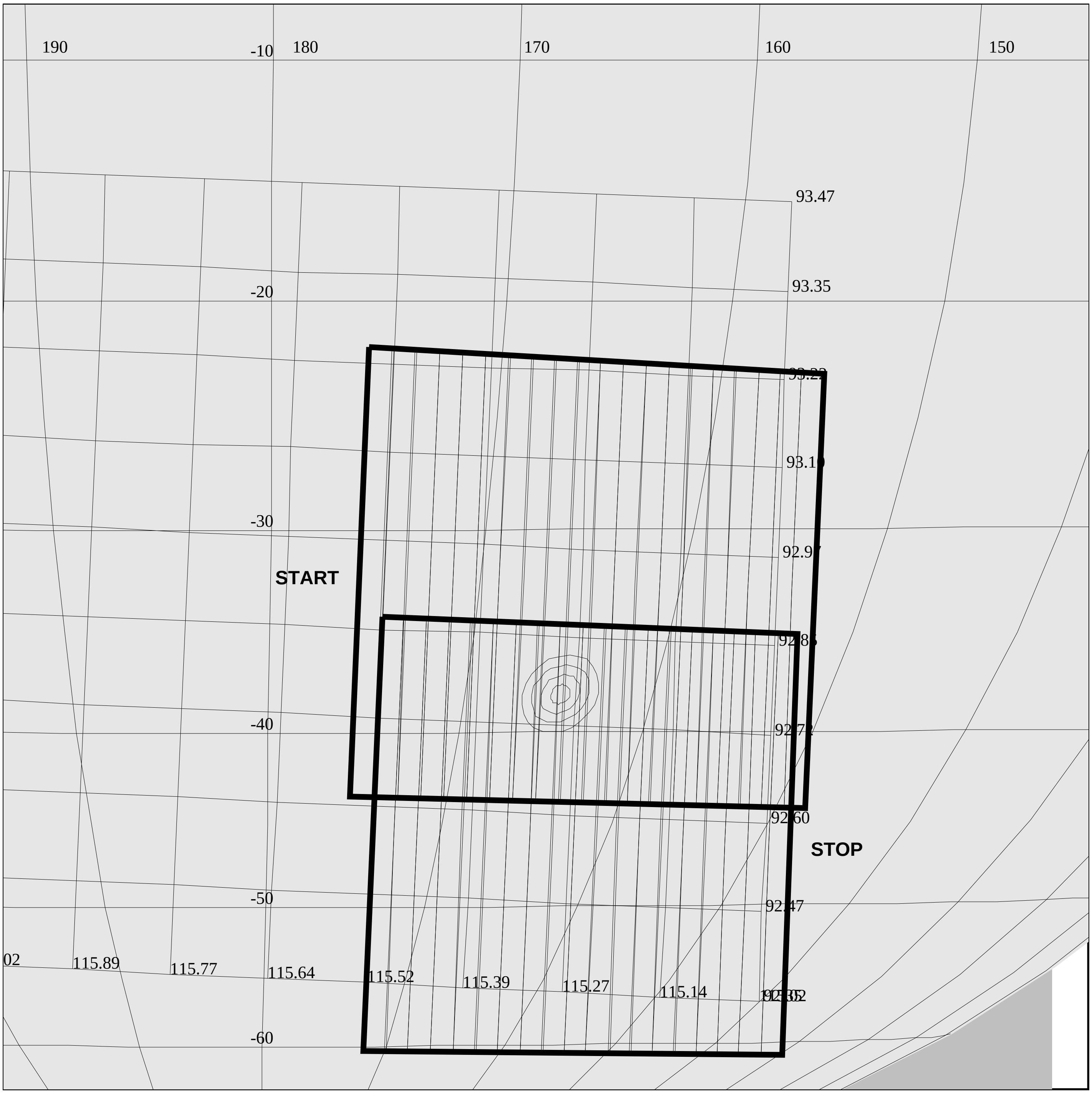
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form   05/09/97 16:17:53   rev 6/95



165DW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/4872 TC= 1(-32 175.5)
A= 182 pD= 2026 SR=17.450 RA50=242.97 DEC50=-23.79 cone=115.54 clock= 92.93
117DW:#SB= 1 OR= 0.030 RR= 9.000 BM=F RC= 1 BS= 0/4872
1:#s= 2 Cs= -10.00 XCs= 0.00 Cr= 9.75 XCr= -6.00 sD= 1004 rD= 18

G8GNOSIRIS01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8GNOSIRIS01

TARGET BODY : GANYMEDE

MINI:m.target

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

PERIAPSIS:

START:GTE 97-127/15:56:11.466 -CDS 165:00:0

OBSERVATION:G8GNOSIRIS01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2026 S= 2.700

DESCRIP:Osiris Crater

```
Central Dome Crater OSIRIS Area          ACTIVITY ID:   G8GNOSIRIS01-
                                          START TIME:   97-127/13:06:19.466

Activity ID: Orbit G8  Target G  Inst N  OAPEL OSIRIS  SeqNo 01 -

Title         Central Dome Crater OSIRIS Area        Instrument      NIMS
Requestor     NIMS-SWG/JHUI              Team   NIMS  Working Group    SWG

Time System  CDS       Load ID         Calendar Date  05/07/97  Week  19

Start        GTE-CDS 00000168:00:0 97-127/13:06:19.466   GTE-000/02:49:52.000
End          GTE-CDS 00000153:00:0 97-127/13:21:29.466   GTE-000/02:34:42.000
Duration             00000015:00:0     000/00:15:10.000       000/00:15:10.000

Top Label    G8GNOSIRIS01-
Bottom Label NIMS/Ganymede

Plot Key     NIMS      Type            SCI
CDS Bytes        189   Report Options  BOTH         Scan Platform      Yes
CDS Source   PA        Spin State      DUAL         DMS                Yes
```

Observation Objective

Study the nature of large central dome craters and the evolution of ray craters by observing the crater Osiris. Furrow terrain study will also be done from the surrounding area of the crater.

Data Returned

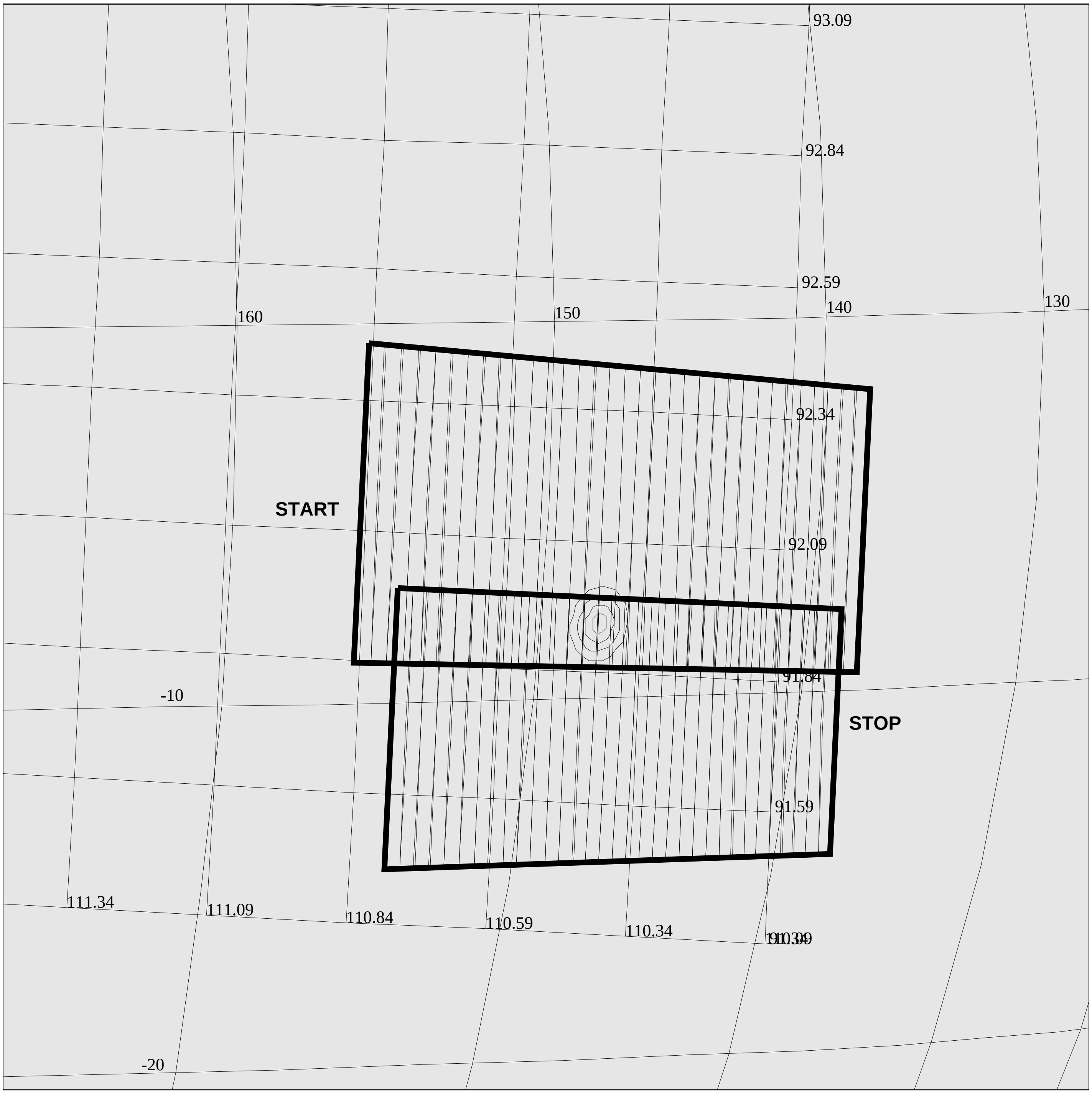
Design Detail

```
Long Map mode,       Start Grating position = 0,     Grating Offset=4
Chopper Reference,   Gain State = 2,                 Record=LPU,
#wavelengths recorded and returned =204,
wavelength table = GLM204.
Slew rate = 0.03 mrad/sec, Nyquist Sampling.  TMC is used.

Target center is Lat=-38 deg.,  Lon=165 deg.
Two strips covering Lat range -55 to -25 deg and
                    Lon range 150 to 180 deg.
```

Long Map (LM), Gain 3, Grating Start 0, LPU, G8GLM244J, G8GLM216J

Galileo Activity Plan Form   05/09/97 16:17:53   rev 6/95



165DY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0524 TC= 1(-4.7 156)
A= 182 pD= 3426 SR=17.450 RA50=237.77 DEC50=-23.76 cone=110.84 clock= 92.14
117DY:#SB= 1 OR= 0.030 RR= 6.000 BM=F RC= 1 BS= 0/0524
1:#s= 2 Cs= -17.00 XCs= 0.00 Cr= 15.90 XCr= -8.00 sD= 1704 rD= 18

G8GNURUK__01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8GNURUK__01

TARGET BODY : GANYMEDE

MINI:m.target

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

PERIAPSIS:

START:GTE 97-127/15:56:11.466 -CDS 79:00:0

OBSERVATION:G8GNURUK__01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 3426 S= 4.000

DESCRIP:Uruk Sulcus craters

Uruk Sulcus & Craters & Grooves Furrow	ACTIVITY ID: G8GNURUK__01- START TIME: 97-127/14:34:17.466

Activity ID: Orbit G8 Target G Inst N OAPEL URUK__ SeqNo 01 -

Title	Uruk Sulcus & Craters & Grooves Furrow			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	GTE-CDS 00000081:00:0	97-127/14:34:17.466	GTE-000/01:21:54.000
End	GTE-CDS 00000060:00:0	97-127/14:55:31.466	GTE-000/01:00:40.000
Duration	00000021:00:0	000/00:21:14.000	000/00:21:14.000

Top Label   G8GNURUK__01-
Bottom Label NIMS/Ganymede

Plot Key	NIMS	Type	SCI		
CDS Bytes	189	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Study the nature of terrain with Sulcus, Grooves, and Furrow.
There are also number of dark halo craters which we can use as
potential probes to study subsurface geology/mineralogy.

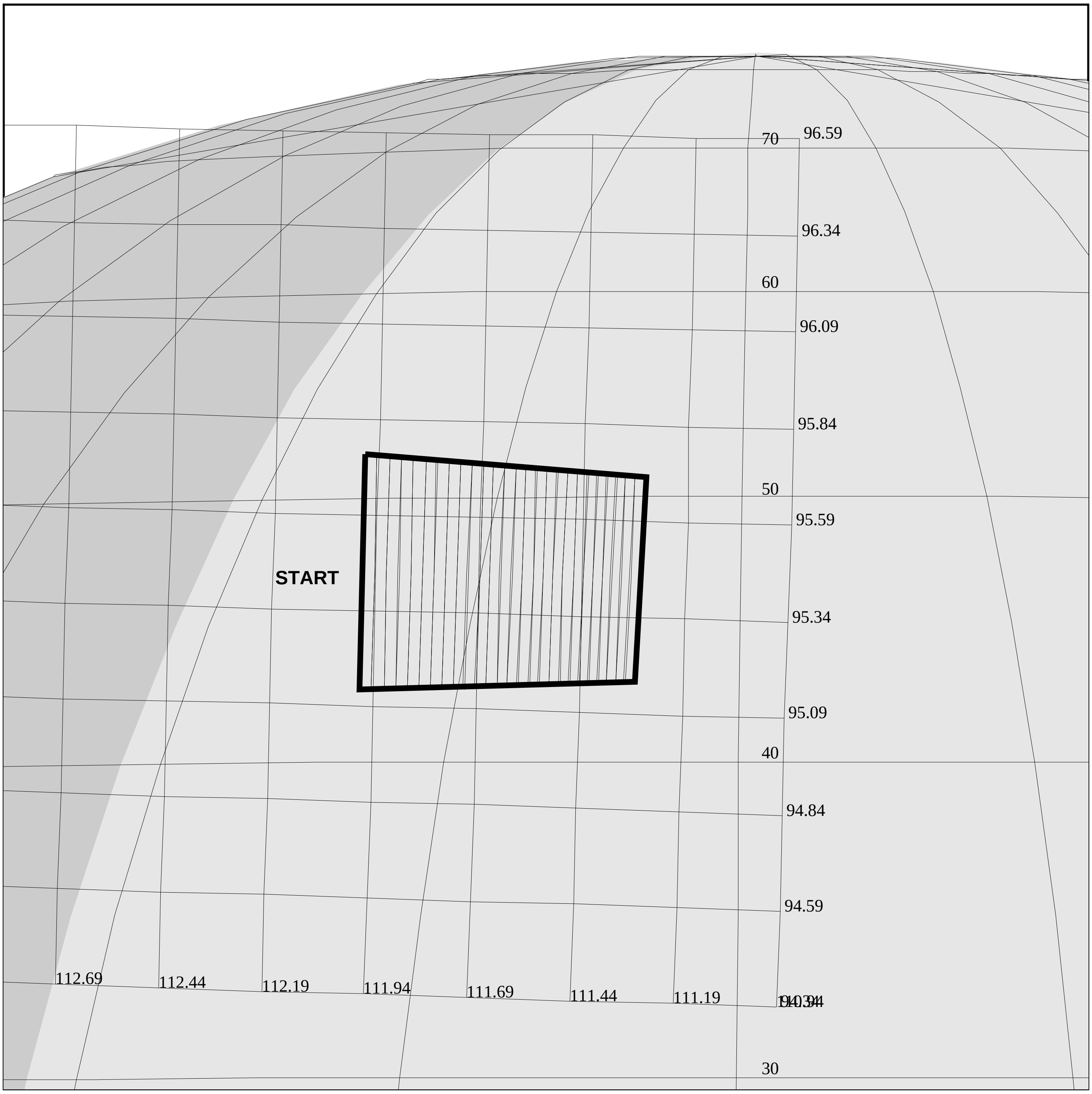
Data Returned

Design Detail

Long Map mode,   Start Grating position = 0,   Grating Offset=4
Chopper Reference,   Gain State = 2,   Record=LPU,
#wavelengths recorded and returned =204,
wavelength table = GLM204.
Slew rate = 0.03 mrad/sec, Nyquist Sampling. TMC is used.

Target center is Lat=-8 deg., Lon=148 deg.
Two strips covering Lat range   2 to -13 deg and
Lon range 138 to 158 deg.

Long Map (LM), Gain 3, Grating Start 0, LPU, G8GLM244J, G8GLM216J



165DZ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/4346 TC= 1(47.0 204.5)
A= 182 pD= 1354 SR=17.450 RA50=239.57 DEC50=-20.93 cone=111.97 clock= 95.44
117DZ:#SB= 1 OR= 0.030 RR= 6.000 BM=F RC= 1 BS= 0/4346
1:#s= 1 Cs= -13.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1354 rD= 2

G8GNTRANSI01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8GNTRANSI01

TARGET BODY : GANYMEDE

MINI:m.target

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

PERIAPSIS:

START:GTE 97-127/15:56:11.466 -CDS 58:00:0

OBSERVATION:G8GNTRANSI01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1354 S= 4.000

DESCRIP:Nippur Sulcus grooves&transition

Transition boundary Sulcus and Grooves ACTIVITY ID: G8GNTRANSI01-
START TIME: 97-127/14:55:31.466

Activity ID: Orbit G8 Target G Inst N OAPEL TRANSI SeqNo 01 -

Title	Transition boundary Sulcus and Grooves			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	GTE-CDS 00000060:00:0	97-127/14:55:31.466	GTE-000/01:00:40.000
End	GTE-CDS 00000050:00:0	97-127/15:05:38.133	GTE-000/00:50:33.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G8GGNTRANSI01-
Bottom Label NIMS/Ganymede

Plot Key	NIMS	Type	SCI		
CDS Bytes	204	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Study the mineralogy variations across distinct dark/light boundaries.

Data Returned

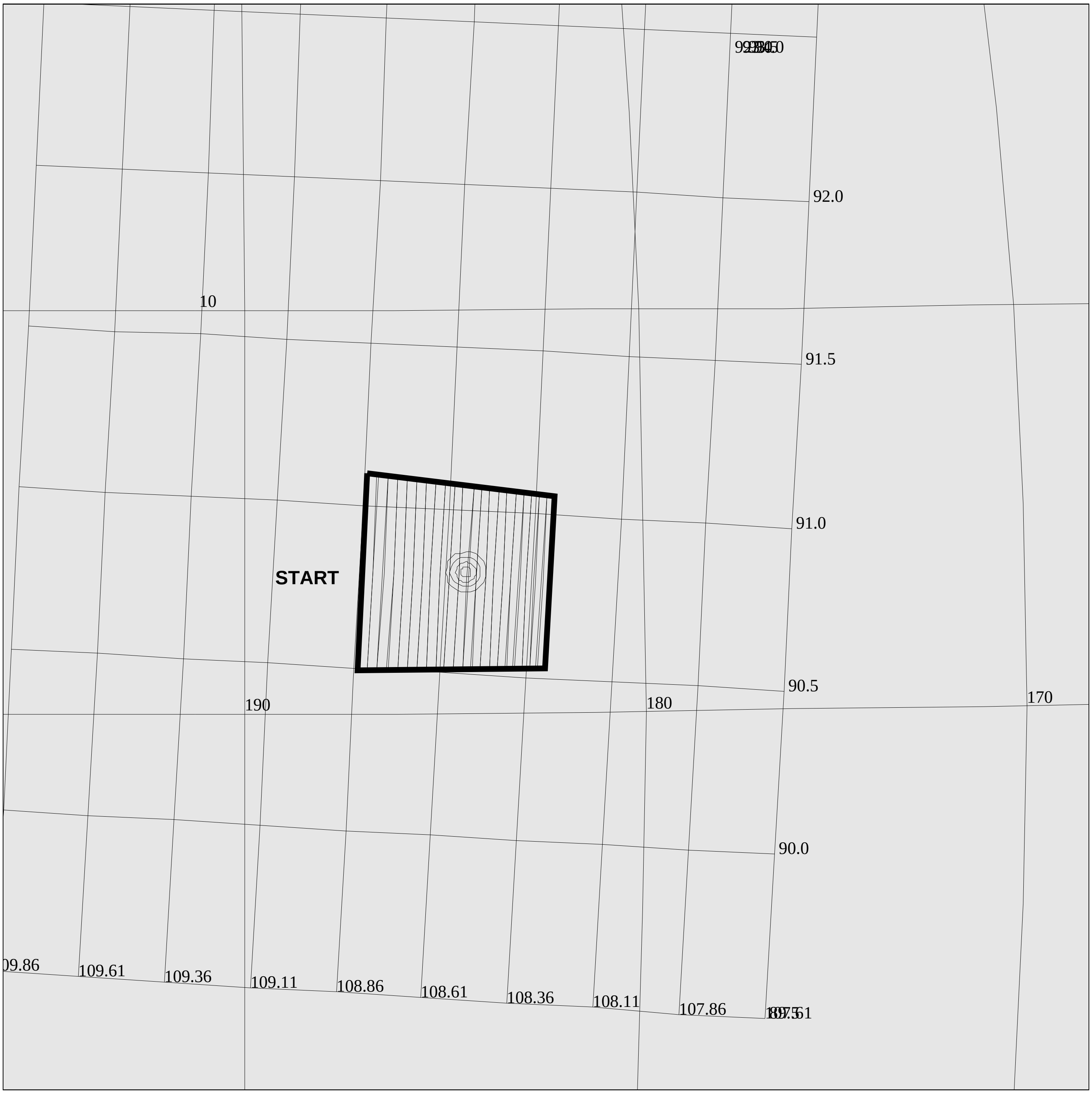
Design Detail

Long Map mode, Start Grating position = 0, Grating Offset=4
Chopper Reference, Gain State = 2, Record=LPU,
#wavelengths recorded and returned =204,
wavelength table = GLM204.
Slew rate = 0.03 mrad/sec, Nyquist Sampling. TMC is used.

One strips covering Lat range 43 to 51 deg and
Lon range 193 to 205 deg.

Long Map (LM), Gain 3, Grating Start 0, LPU, G8GLM244J, G8GLM216J

Galileo Activity Plan Form 05/09/97 16:17:53 rev 6/95



165EA:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6166 TC= 1(3.5 187)
A= 182 pD= 1054 SR=17.450 RA50=235.38 DEC50=-24.66 cone=108.85 clock= 90.77
117EA:#SB= 1 OR= 0.030 RR= 6.000 BM=F RC= 1 BS= 0/6166
1:#s= 1 Cs= -10.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1054 rD= 2

G8GNLIDARK01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8GNLIDARK01

TARGET BODY : GANYMEDE

MINI:m.target

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

PERIAPSIS:

THINNING:NIM 2

START:GTE 97-127/15:56:11.466 -CDS 48:00:0

BODY PLOT TIME:TARGET-TIME D= 1054 S= 4.000

OBSERVATION:G8GNLIDARK01

DESCRIP:Dark material

Lite Dark Material	ACTIVITY ID: G8GNLIDARK01- START TIME: 97-127/15:06:38.800

```
Activity ID: Orbit G8  Target G  Inst N  OAPEL LIDARK  SeqNo 01 -

Title         Lite Dark Material                      Instrument      NIMS
Requestor     NIMS-SWG/JHUI              Team   NIMS  Working Group   SWG

Time System   CDS       Load ID          Calendar Date  05/07/97  Week  19

Start         GTE-CDS 00000049:00:0 97-127/15:06:38.800   GTE-000/00:49:32.666
End           GTE-CDS 00000042:00:0 97-127/15:13:43.466   GTE-000/00:42:28.000
Duration              00000007:00:0     000/00:07:04.666       000/00:07:04.666

Top Label     G8GNLIDARK01-
Bottom Label NIMS/Ganymede

Plot Key      NIMS      Type            SCI
CDS Bytes         189   Report Options  BOTH         Scan Platform       Yes
CDS Source    PA        Spin State      DUAL         DMS                 Yes
```

Observation Objective

Study the nature of light dark material, i.e. determine if it is moderate albedo material, a mixture of endmembers or a different mineralogy.

Data Returned

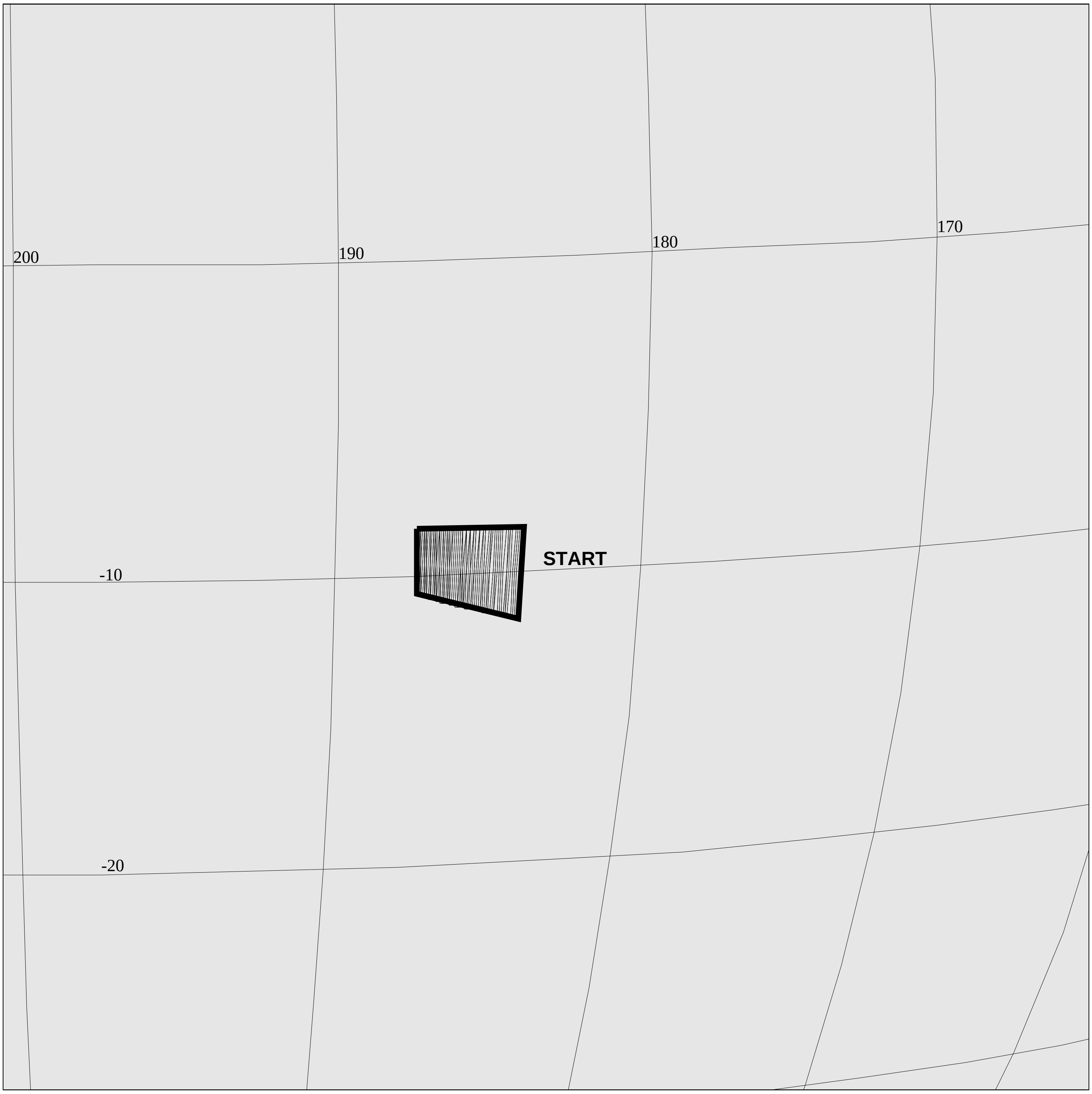
Design Detail

```
Long Map mode,       Start Grating position = 0,     Grating Offset=4
Chopper Reference,   Gain State = 2,                 Record=LPU,
#wavelengths recorded and returned =204,
wavelength table = GLM204.
Slew rate = 0.03 mrad/sec, Nyquist Sampling.  TMC is used.

Target center is lat=3.5 deg. lon=184.5 deg.
One strips covering Lat range   2 to   5 deg and
                    Lon range 181 to 187 deg.
```

Long Map (LM), Gain 3, Grating Start 0, LPU, G8GLM244J, G8GLM216J

Galileo Activity Plan Form 05/09/97 16:17:53 rev 6/95



165EB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9624 TC= 1(-10 184)
A= 364 pD= 1530 SR=17.450 RA50=225.28 DEC50=-28.51 cone=100.82 clock= 84.95
117EB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9624
1:#s= 1 Cs= 15.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1530 rD= 2

G8GNMELKAR01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8GNMELKAR01

TARGET BODY : GANYMEDE

MINI:m.target

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

PERIAPSIS:

START:GTE 97-127/15:56:11.466 -CDS 29:00:0

OBSERVATION:G8GNMELKAR01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 1530 S= 3.000

DESCRIP:Melkart Crater in Bright and Dar

Melkart Crater in Bright and Dark Terria ACTIVITY ID: G8GNMELKAR01-
START TIME: 97-127/15:23:50.133

Activity ID: Orbit G8 Target G Inst N OAPEL MELKAR SeqNo 01 -

Title	Melkart Crater in Bright and Dark Terria		Instrument		NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	GEE-CDS 00000032:00:0	97-127/15:23:50.133	GEE-000/00:32:21.333
End	GEE-CDS 00000020:02:0	97-127/15:35:56.800	GEE-000/00:20:14.666
Duration	00000011:89:0	000/00:12:06.667	000/00:12:06.667

Top Label G8GNMELKAR01-
Bottom Label

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

Observation Objective

To study the crater Melkart, i.e. its composition and to understand the nature of half light and half dark material over the crater. Joint science with SSI.

Data Returned

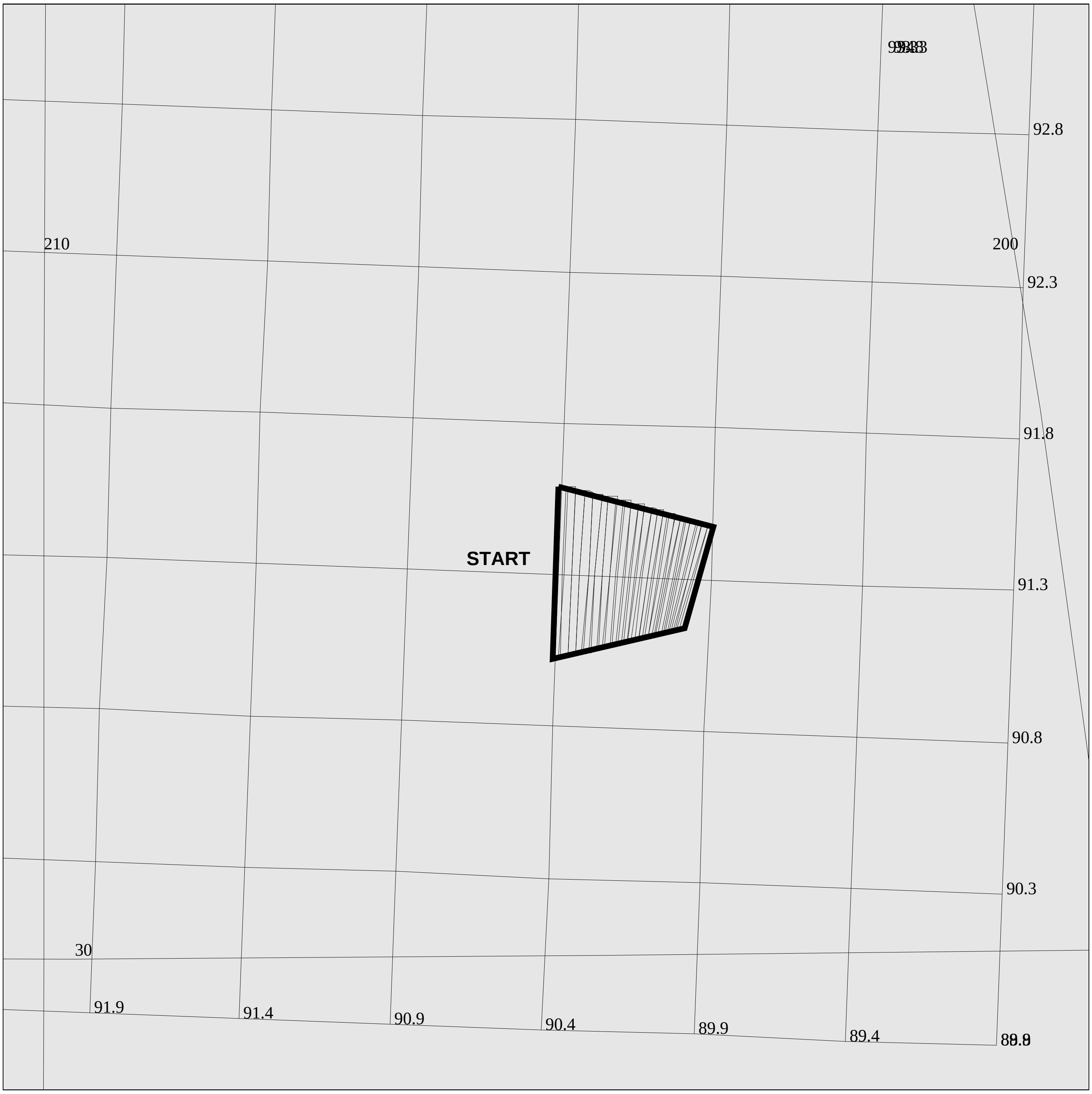
Design Detail

Target 2 RIMS to latitude minus 10 degrees and longitude 186 degrees and offset to one side and use a CSMOS duration of 8 RIMS 37 mf.

NIMS mode = Long Map,	grating offset = 0,	gain state = 3,
chopper reference,	resolution = 6 KM/NIMSEL,	phase = 85 degrees,
LPU recorde mode,	wavelength return = 204.	

Long Map (LM), Gain 3, Grating Start 0, LPU, G8GLM244J, G8GLM216J

Galileo Activity Plan Form 05/09/97 16:17:53 rev 6/95



165EC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2172 TC= 1(33.5 205)
A= 728 pD= 1204 SR=17.450 RA50=216.22 DEC50=-19.52 cone= 90.39 clock= 91.35
117EC:#SB= 1 OR= 0.030 RR= 6.000 BM=F RC= 1 BS= 0/2172
1:#s= 1 Cs= -12.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1204 rD= 2

G8GNDARTRL01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8GNDARTRL01

TARGET BODY : GANYMEDE

MINI:m.target

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

PERIAPSIS:

START:GTE 97-127/15:56:11.466 -CDS 15:00:0

OBSERVATION:G8GNDARTRL01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1204 S= 10.000

DESCRIP:Marius/Dark material/TrailSide

```
Dark material in Marius Regio Trail Hem  ACTIVITY ID:   G8GNDARTRL01-
                                          START TIME:   97-127/15:35:58.133

Activity ID: Orbit G8  Target G  Inst N  OAPEL DARTRL  SeqNo 01 -

Title        Dark material in Marius Regio Trail Hem Instrument      NIMS
Requestor    NIMS-SWG/JHUI              Team   NIMS  Working Group    SWG

Time System  CDS       Load ID          Calendar Date  05/07/97  Week  19

Start        GTE-CDS 00000020:00:0 97-127/15:35:58.133   GTE-000/00:20:13.333
End          GTE-CDS 00000008:00:0 97-127/15:48:06.133   GTE-000/00:08:05.333
Duration            00000012:00:0     000/00:12:08.000       000/00:12:08.000

Top Label    G8GNDARTRL01-
Bottom Label NIMS/Ganymede

Plot Key     NIMS      Type            SCI
CDS Bytes        186   Report Options  BOTH         Scan Platform      Yes
CDS Source   PA        Spin State      DUAL         DMS                Yes
```

Observation Objective

Study of mineralogy of darkest albedo unit, possibly has been modified by magnetospheric bombardment. Endmembers from this unit are required for unmixing of global maps. Highest spectra resolution to identify narrow mineralogic features or those associated with ices other than water.

Data Returned

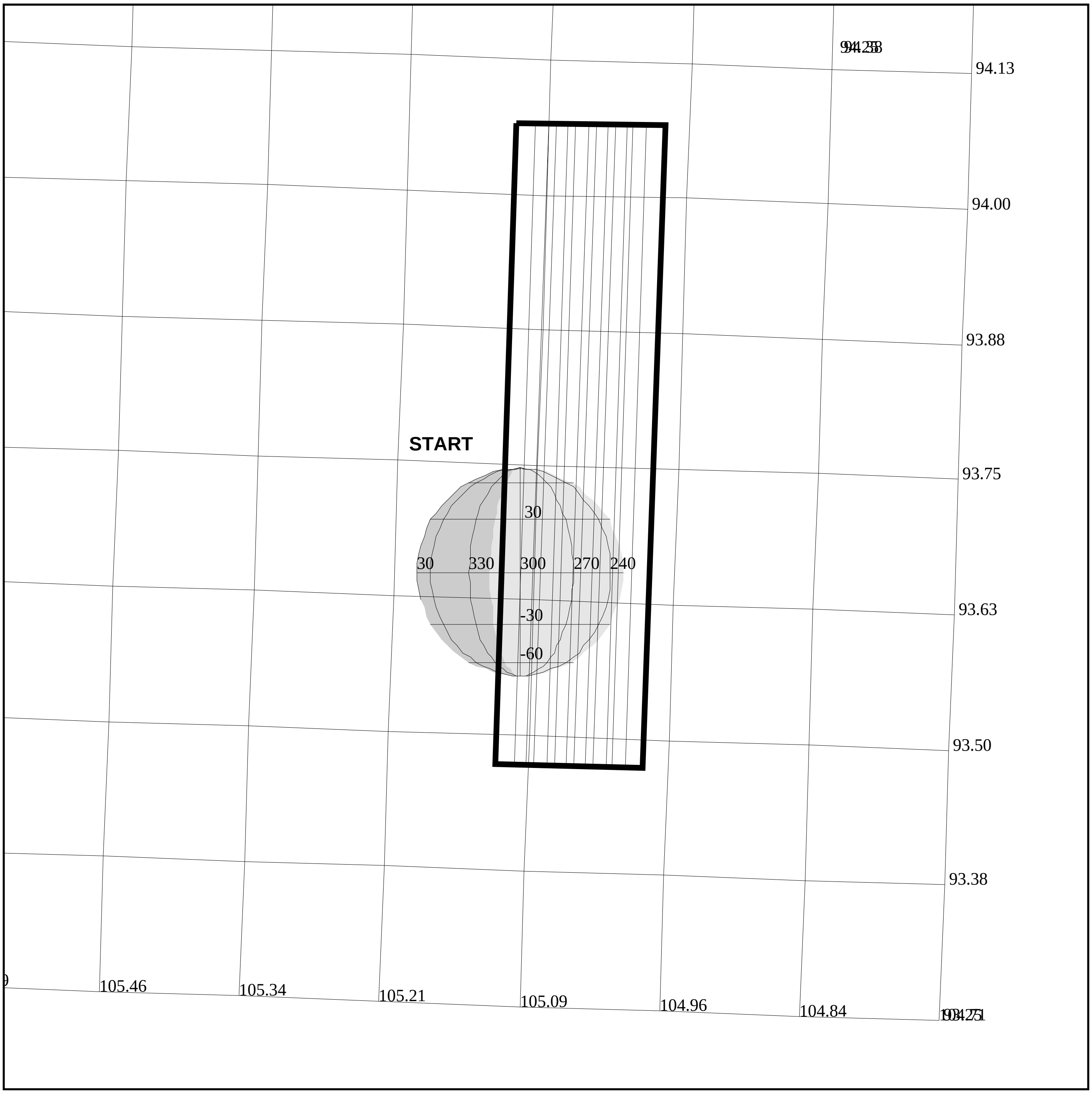
Design Detail

```
Long Map mode,       Start Grating position = 0,     Grating Offset=4
Chopper Reference,   Gain State = 2,                 Record=MPW,
#wavelengths recorded and returned =408,
wavelength table = GLM408.
Slew rate = 0.03 mrad/sec, Nyquist Sampling.  TMC is used.

One strips covering Lat       33.5 deg. and
                    Lon range 203.6 to 205 deg.
```

Long Map (LM), Gain 3, Grating Start 0, MPW, G8GLM442, G8GLM384

Galileo Activity Plan Form   05/09/97 16:17:53   rev 6/95



165ED:TT= 0 TMC= 1 C= 0.20 XC= 2.00 BS= 0/6024 TC= 3
A= 728 pD= 0 SR=17.450 RA50=232.03 DEC50=-21.10 cone=105.11 clock= 93.77
117ED:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/6024
1:#s= 1 Cs= -1.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 170 rD= 2

G8INCHEMIS05

DESIGN G3.1 jdods: 5/ 9/1997 12:13: 2

FILE:P.G8INCHEMIS05

TARGET BODY : IO

MINI:m.G8INCHEMIS05

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 +CDS 671:00:0

OBSERVATION:G8INCHEMIS05

THINNING:NIM 1

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

DESCRIP:Monitoring of Io's Dayside

MONITORING OF IO'S DAYSIDE ACTIVITY ID: G8INCHEMIS05-
START TIME: 97-127/18:44:02.133

Activity ID: Orbit G8 Target I Inst N OAPEL CHEMIS SeqNo 05 -

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

Time System CDS Load ID Calendar Date 05/07/97 Week 19

Start	IEE+CDS 00000666:00:0	97-127/18:44:02.133	IEE+000/11:13:24.000
End	IEE+CDS 00000672:00:0	97-127/18:50:06.133	IEE+000/11:19:28.000
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8INCHEMIS05-
Bottom Label

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

Observation Objective

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

Data Returned

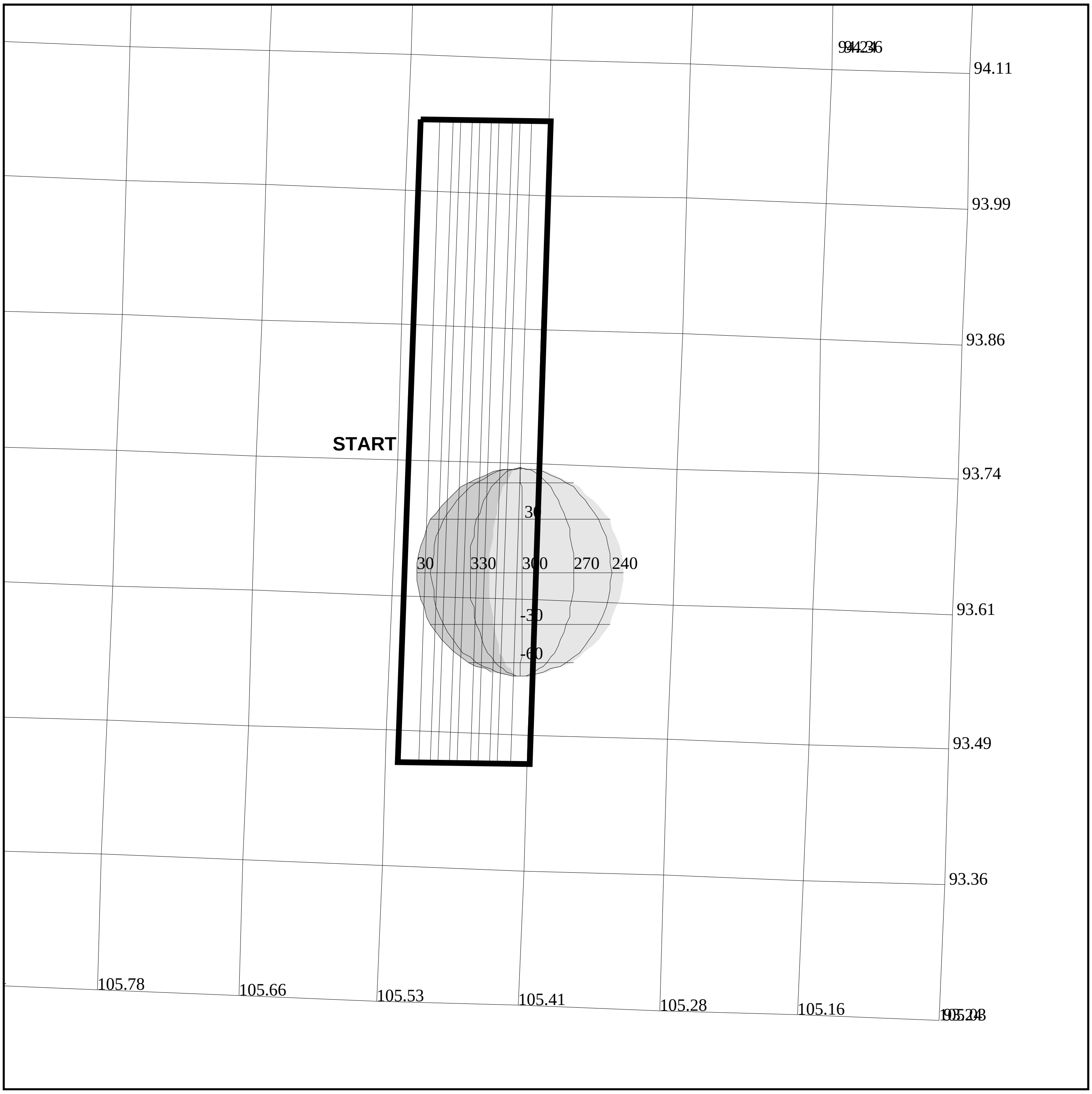
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, G8ILM244B, G8ILM216B

Galileo Activity Plan Form 05/09/97 16:17:54 rev 6/95



165EE:TT= 0 TMC= 1 C= 1.70 XC= 2.00 BS= 0/7116 TC= 3
A= 364 pD= 0 SR=17.450 RA50=232.45 DEC50=-21.20 cone=105.52 clock= 93.76
117EE:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7116
1:#s= 1 Cs= -1.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 154 rD= 2

G8INTHRMAL05

DESIGN G3.1 jdods: 5/ 9/1997 12: 8:21

FILE:P.G8INTHRMAL05

TARGET BODY : IO

MINI:m.G8INTHRMAL05

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 +CDS 677:00:0

OBSERVATION:G8INTHRMAL05

THINNING:NIM 1

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

DESCRIP:Monitoring of Io’s Nightside

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: G8INTHRMAL05- START TIME: 97-127/18:51:06.799

Activity ID: Orbit G8 Target I Inst N OAPEL THRMAL SeqNo 05 -

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

Time System	CDS	Load ID		Calendar Date	05/07/97	Week 19

Start	IEE+CDS 00000673:00:0	97-127/18:51:06.799	IEE+000/11:20:28.666
End	IEE+CDS 00000678:00:0	97-127/18:56:10.133	IEE+000/11:25:32.000
Duration	00000005:00:0	000/00:05:03.334	000/00:05:03.334

Top Label	G8INTHRMAL05-
Bottom Label	

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

Observation Objective

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

Data Returned

Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244C, G8ILMDK216C

Galileo Activity Plan Form 05/09/97 16:17:54 rev 6/95

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NIMS Health Observation	ACTIVITY ID:	G8NNHEALTH02-
	START TIME:	97-127/21:07:36.734

Activity ID: Orbit G8 Target N Inst N OAPEL HEALTH SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	JEE-CDS 00000865:00:0	97-127/21:07:36.734	JEE-000/14:34:36.666
End	JEE-CDS 00000860:00:0	97-127/21:12:40.067	JEE-000/14:29:33.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label   G8NNHEALTH02-
Bottom Label

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

Observation Objective

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

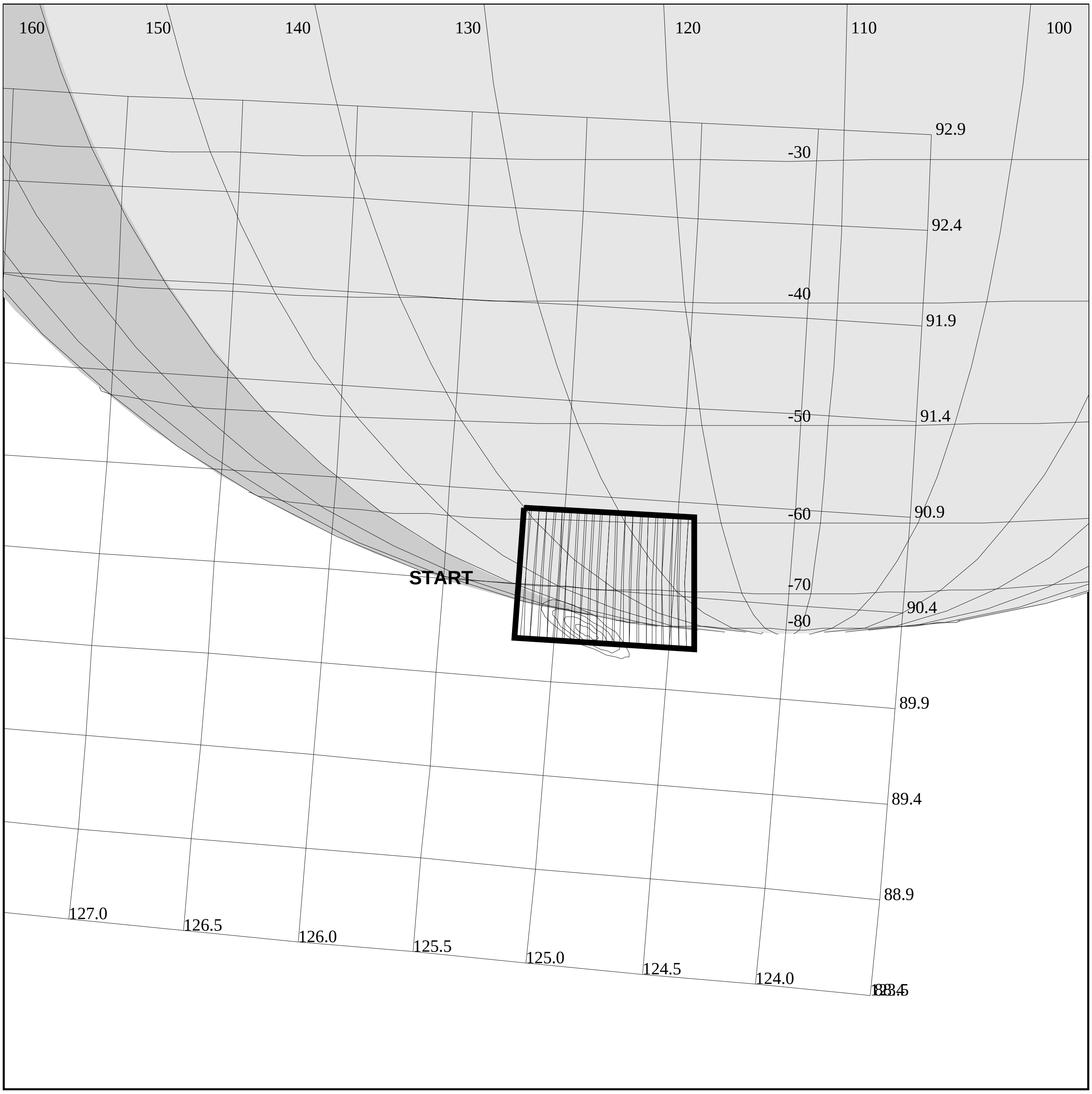
Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, RT.

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

Galileo Activity Plan Form   05/09/97 16:17:54   rev 6/95



165EH:TT= 0 TMC= 1 C= 5.90 XC= 0.00 BS= 0/4780 TC= 1(-68.0 140.0)
A= 728 pD= 0 SR=17.450 RA50=265.00 DEC50=-29.61 cone=125.21 clock= 90.50
117EH:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/4780
1:#s= 1 Cs= -11.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA04101

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA04101

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-128/11:42:13.400 -CDS 844:00:0

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

OBSERVATION:G8JNFEA04101

DESCRIP:Jup. Fea. Trk 41 deg. phase pt.1

Jupiter Feature Track 41 deg phase pt 1	ACTIVITY ID:	G8JNFEA04101-	
	START TIME:	97-127/21:23:47.400	

Activity ID: Orbit G8 Target J Inst N OAPEL FEA041 SeqNo 01 -

Title	Jupiter Feature Track 41 deg phase pt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	JEE-CDS 00000849:00:0	97-127/21:23:47.400	JEE-000/14:18:26.000
End	JEE-CDS 00000842:00:0	97-127/21:30:52.067	JEE-000/14:11:21.333
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	G8JNFEA04101-
Bottom Label	

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the first of three observations obtained on a rotation with phase angle approximately 41 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with South Polar Boundary feature near the terminator, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 0.88 million KM, NIMS IFOV (NIMSEL) = 440 KM; 1 X 1 mosaic covers 8800 X 8800 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT43A
Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT25A
Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form   05/09/97 16:17:54   rev 6/95

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NIMS Real-Time Software Reload	ACTIVITY ID: G8NNNIMSLD02- START TIME: 97-127/22:36:35.400

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 02 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	JEE-CDS 00000777:00:0	97-127/22:36:35.400	JEE-000/13:05:38.000
End	JEE-CDS 00000767:00:0	97-127/22:46:42.067	JEE-000/12:55:31.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	G8NNNIMSLD02-
Bottom Label	

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

Observation Objective

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

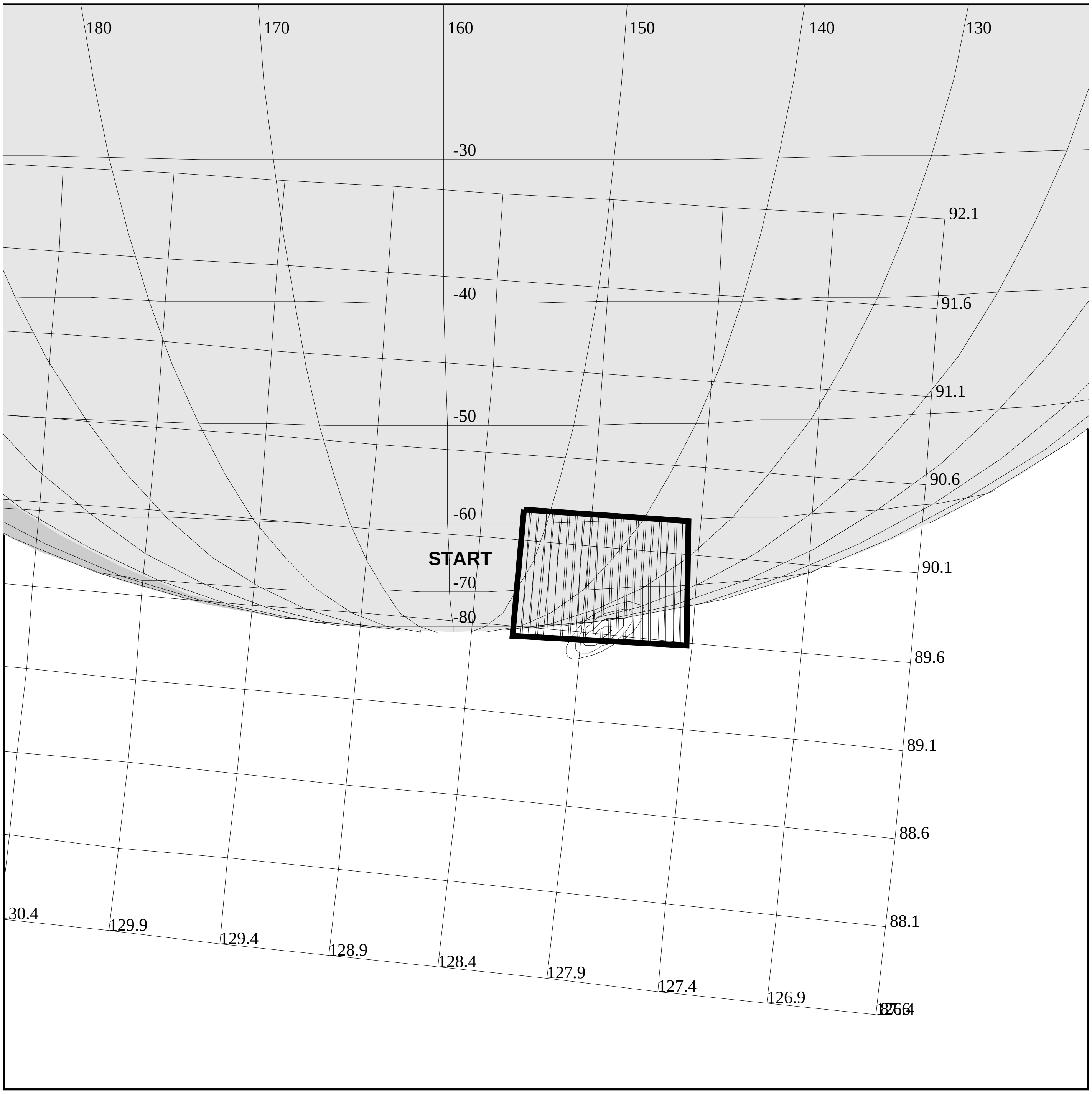
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS, instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form   05/09/97 16:17:54   rev 6/95



165EI:TT= 0 TMC= 1 C= 5.90 XC= 0.00 BS= 0/9886 TC= 1(-68.0 140.0)
A= 182 pD= 0 SR=17.450 RA50=268.52 DEC50=-29.85 cone=128.24 clock= 89.94
117EI:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/9886
1:#s= 1 Cs= -11.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA04102

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA04102

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 -CDS 761:00:0

OBSERVATION:G8JNFEA04102

THINNING:NIM 2

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

DESCRIP:Jup. Fea. Trk 41 deg. phase pt.2

Jupiter Feature Track 41 deg phase pt 2 ACTIVITY ID: G8JNFEA04102-
START TIME: 97-127/22:48:43.400

Activity ID: Orbit G8 Target J Inst N OAPEL FEA041 SeqNo 02 -

Title	Jupiter Feature Track 41 deg phase pt 2		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	JEE-CDS 00000765:00:0	97-127/22:48:43.400	JEE-000/12:53:30.000
End	JEE-CDS 00000759:00:0	97-127/22:54:47.400	JEE-000/12:47:26.000
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8JNFEA04102-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the second of three observations obtained on a rotation with phase angle approximately 41 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with South Polar Boundary feature near minimum airmass, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

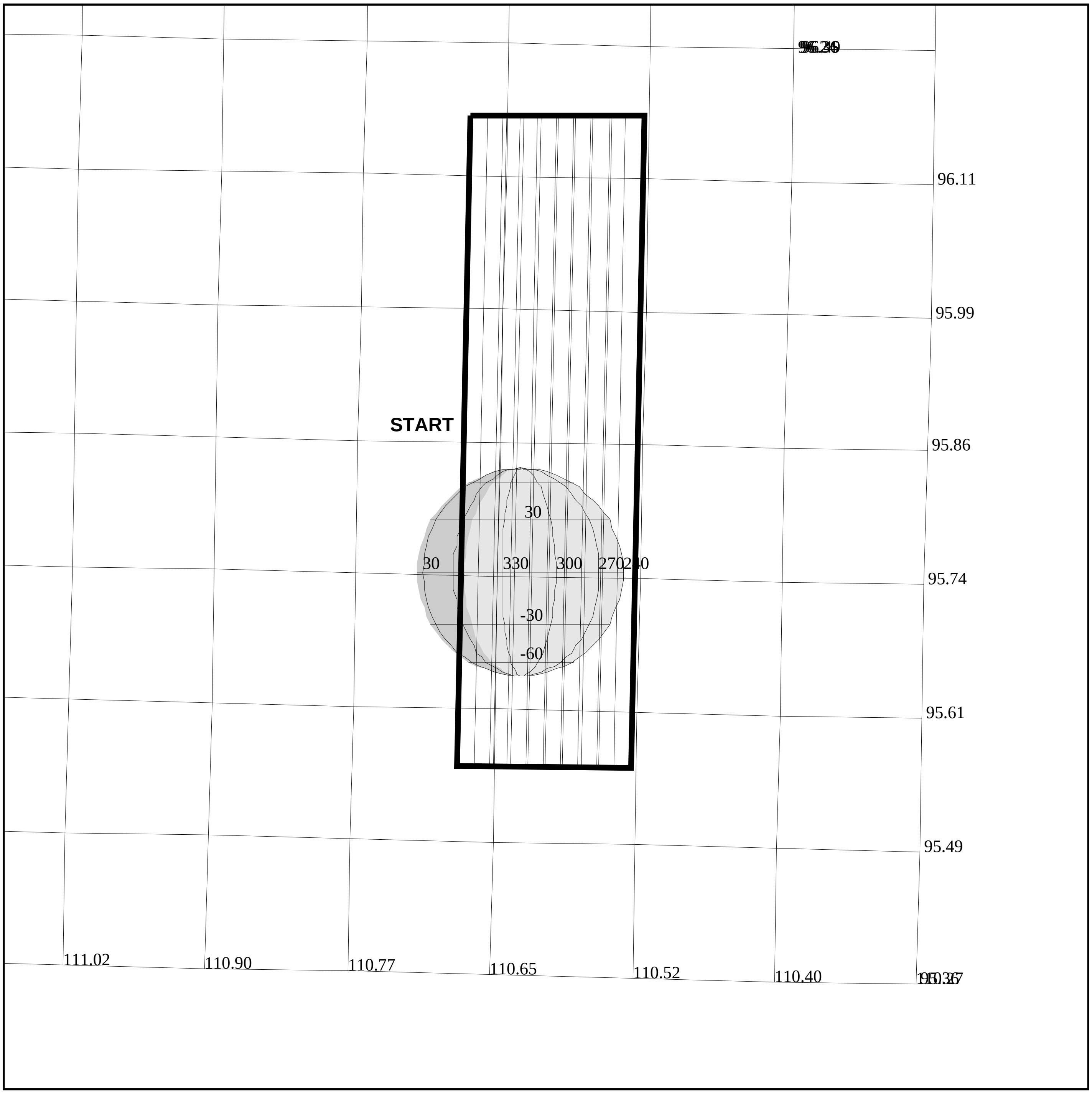
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 0.85 million KM, NIMS IFOV (NIMSEL) = 425 KM; 1 X 1 mosaic covers 8500 X 8500 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks. One rim reserved for targetting (to accomodate PPR).

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form 05/09/97 16:17:54 rev 6/95



165EF:TT= 0 TMC= 1 C= 0.80 XC= 2.00 BS= 0/1160 TC= 3
A= 546 pD= 0 SR=17.450 RA50=248.90 DEC50=-24.31 cone=110.67 clock= 95.87
117EF:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/1160
1:#s= 1 Cs= -0.73 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 224 rD= 2

G8INCHEMIS06

DESIGN G3.1 jdods: 5/ 9/1997 12:12:25

FILE:P.G8INCHEMIS06

TARGET BODY : IO

MINI:m.G8INCHEMIS06

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133 +CDS 919:00:0

OBSERVATION:G8INCHEMIS06

THINNING:NIM 1

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

DESCRIP:Monitoring of Io's Dayside

MONITORING OF IO'S DAYSIDE | **ACTIVITY ID:** G8INCHEMIS06- | **START TIME:** 97-127/22:55:48.133

Activity ID: Orbit G8 Target I Inst N OAPEL CHEMIS SeqNo 06 -

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

Time System	CDS	Load ID		Calendar Date	05/07/97	Week 19

Start	IEE+CDS 00000915:00:0	97-127/22:55:48.133	IEE+000/15:25:10.000
End	IEE+CDS 00000921:00:0	97-127/23:01:52.133	IEE+000/15:31:14.000
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8INCHEMIS06-
Bottom Label

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

Observation Objective

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

Data Returned

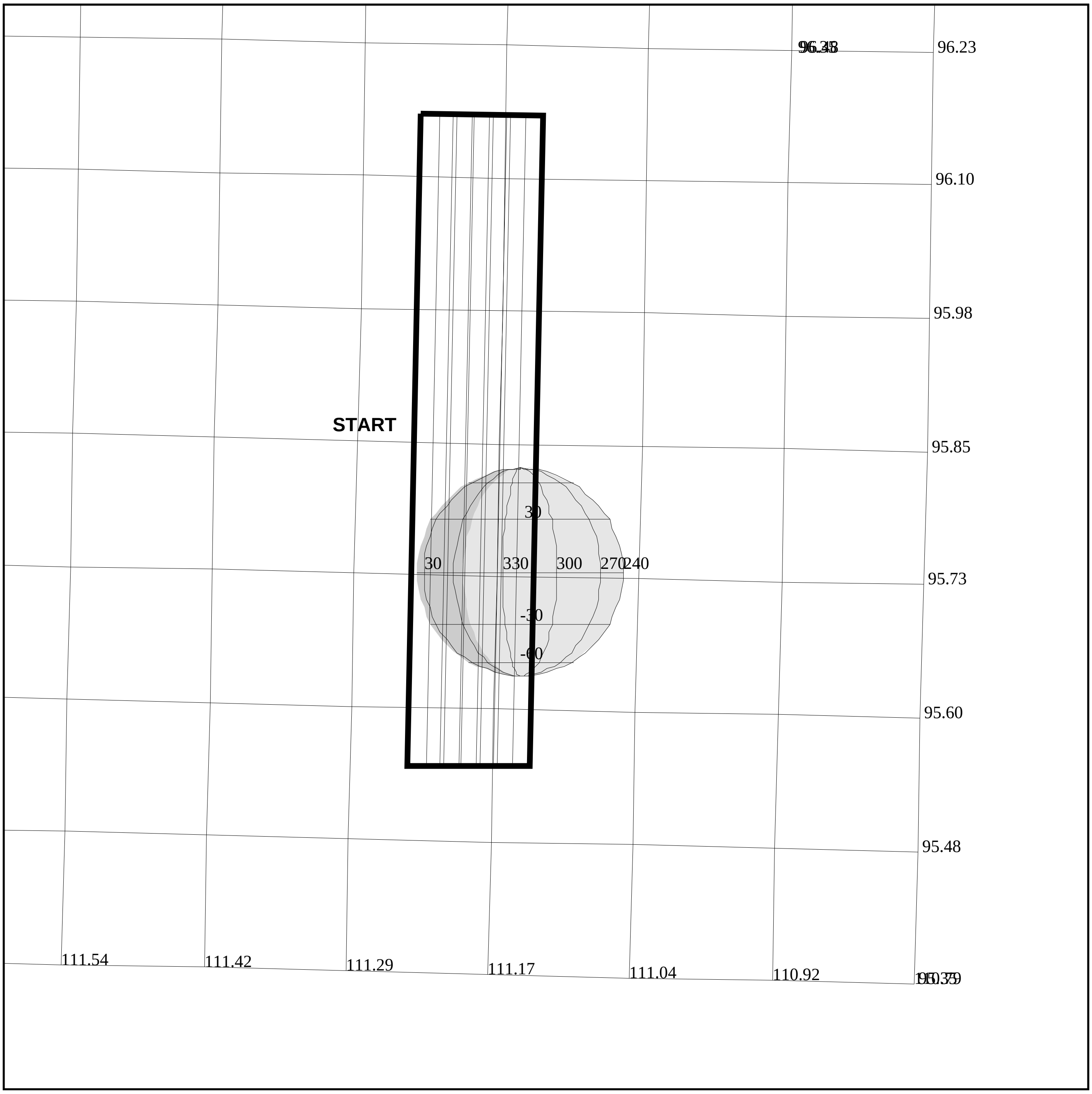
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, G8ILM244B, G8ILM216B

Galileo Activity Plan Form 05/09/97 16:17:54 rev 6/95



165EG:TT=   0 TMC= 1 C=   1.55 XC=   2.00 BS= 0/2434 TC= 3
   A= 728 pD=   0 SR=17.450 RA50=249.51 DEC50=-24.38 cone=111.23 clock= 95.85
117EG:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/2434
   1:#s= 1 Cs=   -0.50 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   154 rD=   2

G8INTHRMAL06

DESIGN G3.1 jdods: 5/ 9/1997 12: 6:49

FILE:P.G8INTHRMAL06

TARGET BODY :   IO

MINI:m.G8INTHRMAL06

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

PERIAPSIS:

START:IEE 97-127/07:30:38.133   +CDS 926:00:0

OBSERVATION:G8INTHRMAL06

THINNING:NIM   1

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

DESCRIP:Monitoring of Io's Nightside

MONITORING OF IO'S NIGHTSIDE

ACTIVITY ID: G8INTHRMAL06-
START TIME: 97-127/23:01:52.133

Activity ID: Orbit G8 Target I Inst N OAPEL THRMAL SeqNo 06 -

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

Time System CDS Load ID Calendar Date 05/07/97 Week 19

Start	IEE+CDS 00000921:00:0	97-127/23:01:52.133	IEE+000/15:31:14.000
End	IEE+CDS 00000928:00:0	97-127/23:08:56.799	IEE+000/15:38:18.666
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G8INTHRMAL06-
Bottom Label

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

Observation Objective

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

Data Returned

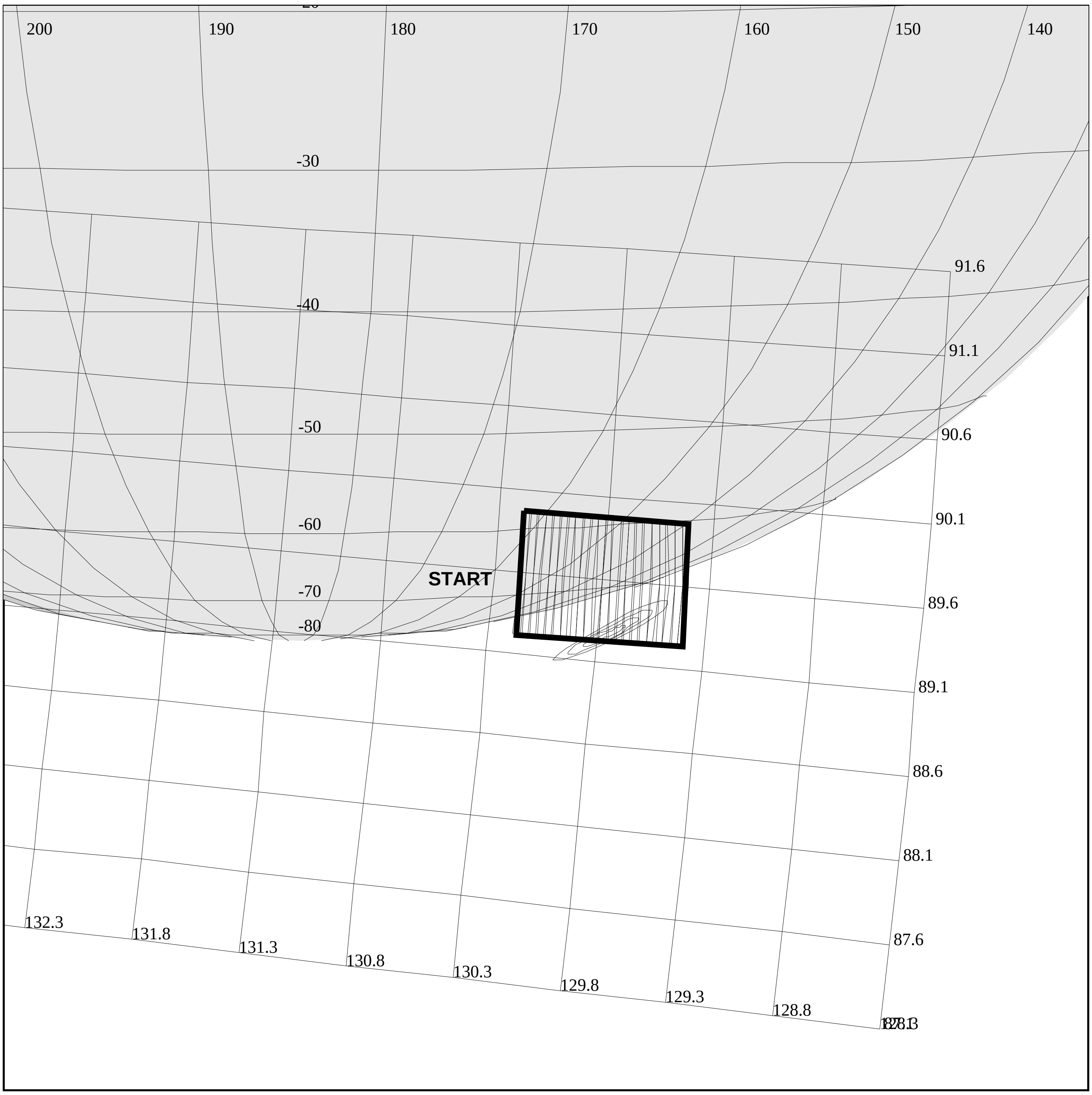
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, G8ILMDK244C, G8ILMDK216C

Galileo Activity Plan Form 05/09/97 16:17:54 rev 6/95



165EJ:TT= 0 TMC= 1 C= 5.90 XC= 0.00 BS= 0/8258 TC= 1(-68.0 140.0)
A= 728 pD= 0 SR=17.450 RA50=270.75 DEC50=-29.91 cone=130.16 clock= 89.62
117EJ:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/8258
1:#s= 1 Cs= -11.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA04103

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA04103

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 -CDS 715:00:0

OBSERVATION:G8JNFEA04103

THINNING:NIM 2

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

DESCRIP:Jup. Fea. Trk 41 deg. phase pt.3

Jupiter Feature Track 41 deg phase pt 3	ACTIVITY ID:	G8JNFEA04103-	
	START TIME:	97-127/23:35:14.067	

Activity ID: Orbit G8 Target J Inst N OAPEL FEA041 SeqNo 03 -

Title	Jupiter Feature Track 41 deg phase pt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 05/07/97	Week 19

Start	JEE-CDS 00000719:00:0	97-127/23:35:14.067	JEE-000/12:06:59.333
End	JEE-CDS 00000713:00:0	97-127/23:41:18.067	JEE-000/12:00:55.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	G8JNFEA04103-
Bottom Label	

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the third of three observations obtained on a rotation with phase angle approximately 41 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with South Polar Boundary feature near the bright limb, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

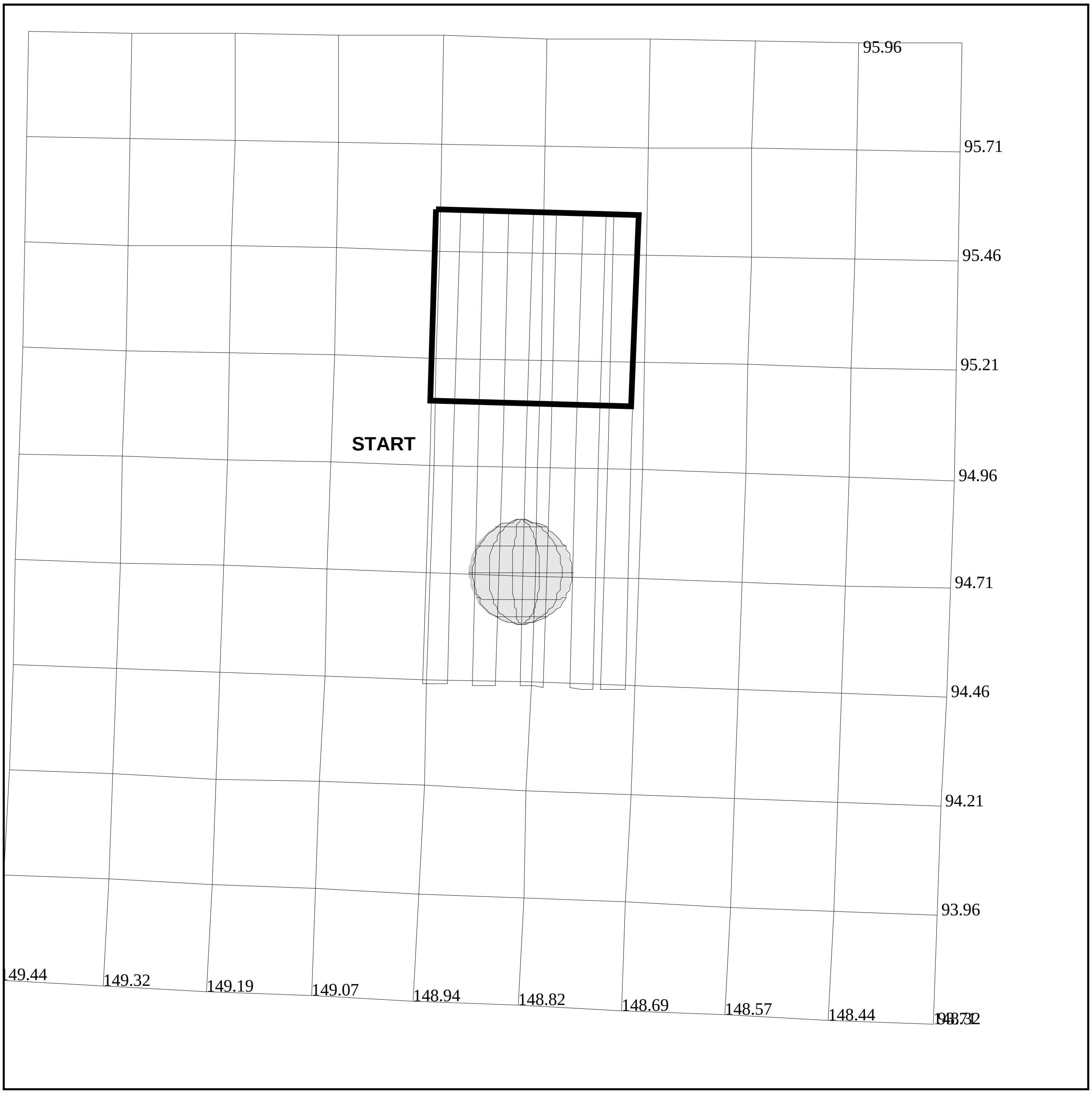
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 0.83 million KM, NIMS IFOV (NIMSEL) = 415 KM; 1 X 1 mosaic covers 8300 X 8300 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form 05/09/97 16:17:54 rev 6/95



165EK:TT=   0 TMC= 1 C=   2.00 XC=   2.60 BS= 0/9350 TC= 3
   A= 728 pD= 3094 SR=17.450 RA50=290.92 DEC50=-23.49 cone=148.95 clock= 95.01
117EK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9350
   1:#s= 22 Cs=   -4.00 XCs=   0.00 Cr=   4.00 XCr=   0.00 sD=   116 rD=   20

G8ENCLIPSE01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8ENCOOLCV01

TARGET BODY :   EUROPA

MINI:m.target

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

PERIAPSIS:

START:EEE 97-128/09:48:58.733   -CDS 597:00:0

OBSERVATION:G8ENCOOLCV01

THINNING:NIM   4

BODY PLOT TIME:TARGET-TIME D= 3094 S= 0.100

DESCRIP:Europa Eclipse

EUROPA ECLIPSE	ACTIVITY ID:	G8ENCLIPSE01-
	START TIME:	97-127/23:41:19.400

Activity ID: Orbit G8 Target E Inst N OAPEL CLIPSE SeqNo 01 -

Title	EUROPA ECLIPSE			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/07/97	Week	19

Start	EEE-CDS 00000600:89:0	97-127/23:41:19.400	EEE-000/10:07:39.333
End	EEE-CDS 00000596:00:0	97-127/23:46:21.400	EEE-000/10:02:37.333
Duration	00000004:89:0	000/00:05:02.000	000/00:05:02.000

Top Label   G8ENCLIPSE01-
Bottom Label

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

Observation Objective

This Europa eclipse observation will be used to define a warming curve in combination with the ENCOOLCV observation. This observation has been coordinated with PPR to obtain the cooler temperature. This data will aid green house solid state in Europa.

Update: PPR will not be on for this observation. The duration of this observation was shorten from 18 minutes to 1 minuite (to save on tape) and 5 minutes in real-time to determine a cooling curve for Europa. Total duration is 6 minutes for this observation.

This observation was incorrectly mirror blocked and Europa was not observed.

Data Returned

Design Detail

Inst. Mode = SM,   Grating Position = 1,
Wavelength P/B = 51, Gain State = 4,
Lat = Lon =,

Phase = 28, TLM = LPU, Resolution = 600 KM.
One scan bias towards the bottom of the strip for editing.

This observation was incorrectly mirror blocked and Europa was not observed.

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

Short Map (SM), Gain 2, Grating Start 1, R/T, G8ESMRT51

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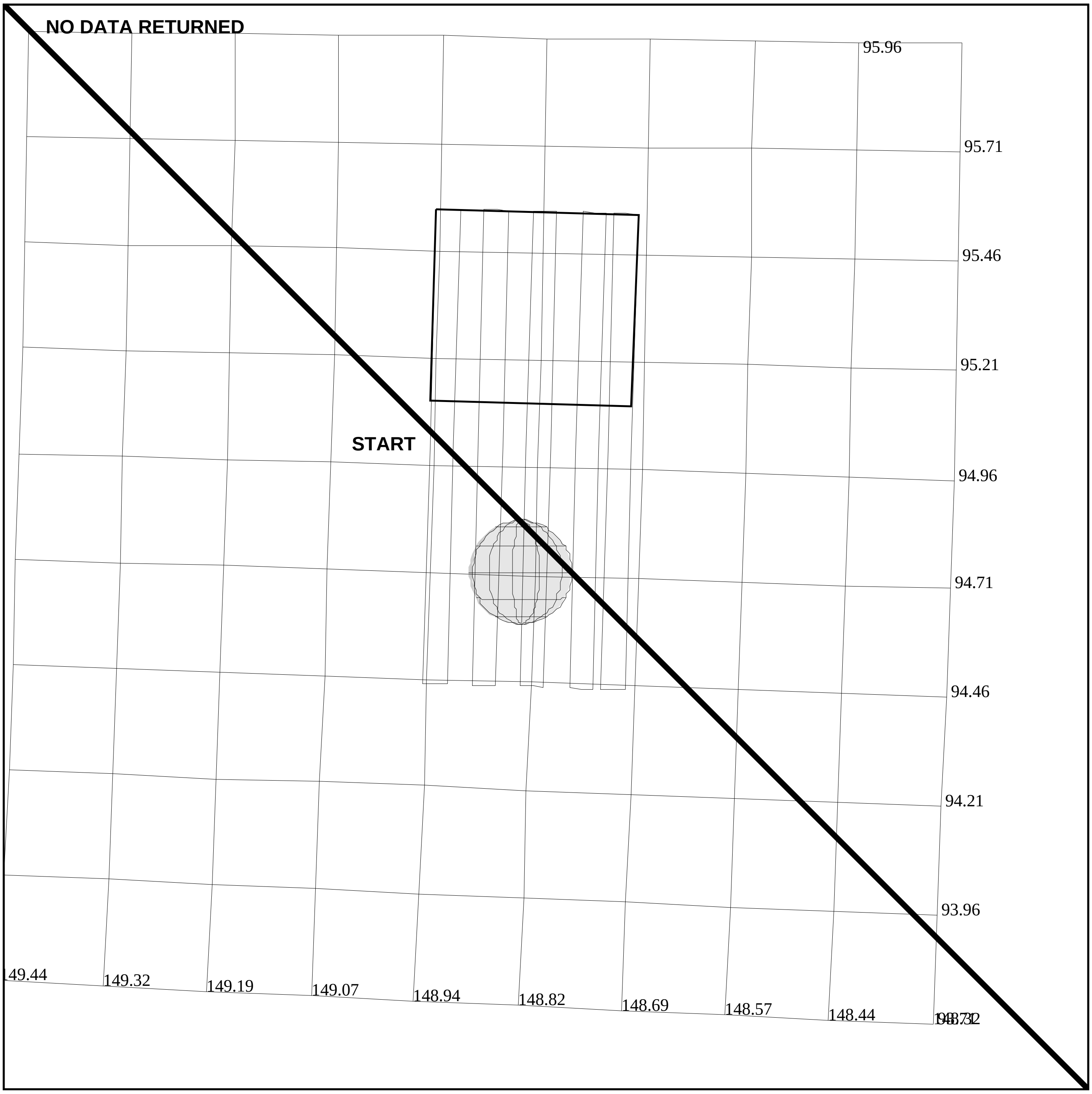

165EK:TT= 0 TMC= 1 C= 2.00 XC= 2.60 BS= 0/9350 TC= 3
A= 728 pD= 3094 SR=17.450 RA50=290.92 DEC50=-23.49 cone=148.95 clock= 95.01
117EK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9350
1:#s= 22 Cs= -4.00 XCs= 0.00 Cr= 4.00 XCr= 0.00 sD= 116 rD= 20

G8ENCOOLCV01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8ENCOOLCV01

TARGET BODY : EUROPA

MINI:m.target

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

PERIAPSIS:

START:EEE 97-128/09:48:58.733 -CDS 597:00:0

OBSERVATION:G8ENCOOLCV01

THINNING:NIM 4

BODY PLOT TIME:TARGET-TIME D= 3094 S= 0.100

DESCRIP:Europa Eclipse

Europa Cool Curve	ACTIVITY ID: G8ENCOOLCV01- START TIME: 97-127/23:46:21.400

Activity ID: Orbit G8 Target E Inst N OAPEL COOLCV SeqNo 01 -

Title	Europa Cool Curve			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date 05/07/97	Week 19

Start	EEE-CDS 00000596:00:0	97-127/23:46:21.400	EEE-000/10:02:37.333
End	EEE-CDS 00000590:00:0	97-127/23:52:25.400	EEE-000/09:56:33.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	G8ENCOOL 01-
Bottom Label	UMBRA

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

Observation Objective

This Europa eclipse observation will be used to define a warming curve in combination with the ENTRAIL observation. This observation has been coordinated with PPR to obtain the cooler temperature. This data will aid green house solid state in Europa.

Update: PPR will not be on for this observation. The duration of this observation was shorten from 18 minutes to 1 minuite (to save on tape) and 5 minutes in real-time to determine a cooling curve for Europa. Total duration is 6 minutes for this observation.

This observation was incorrectly mirror blocked and Europa was not observed.

No Data Returned

Design Detail

Inst. Mode = SM, Grating Position = 1,
Wavelength P/B = 51, Gain State = 4,
Lat = Lon =,

Phase = 28, TLM = LPU, Resolution = 600 KM.
One scan bias towards the bottom of the strip for editing.

This observation was incorrectly mirror blocked and Europa was not observed.

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

Short Map (SM), Gain 2, Grating Start 1, LPU, G8ESM51, G8ESM51

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NIMS Real-Time Software Reload	ACTIVITY ID: G8NNNIMSLD03-
	START TIME: 97-128/01:49:42.733

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	EEE-CDS 00000474:00:0	97-128/01:49:42.733	EEE-000/07:59:16.000
End	EEE-CDS 00000464:00:0	97-128/01:59:49.400	EEE-000/07:49:09.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	G8NNNIMSLD03-
Bottom Label	

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

Observation Objective

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

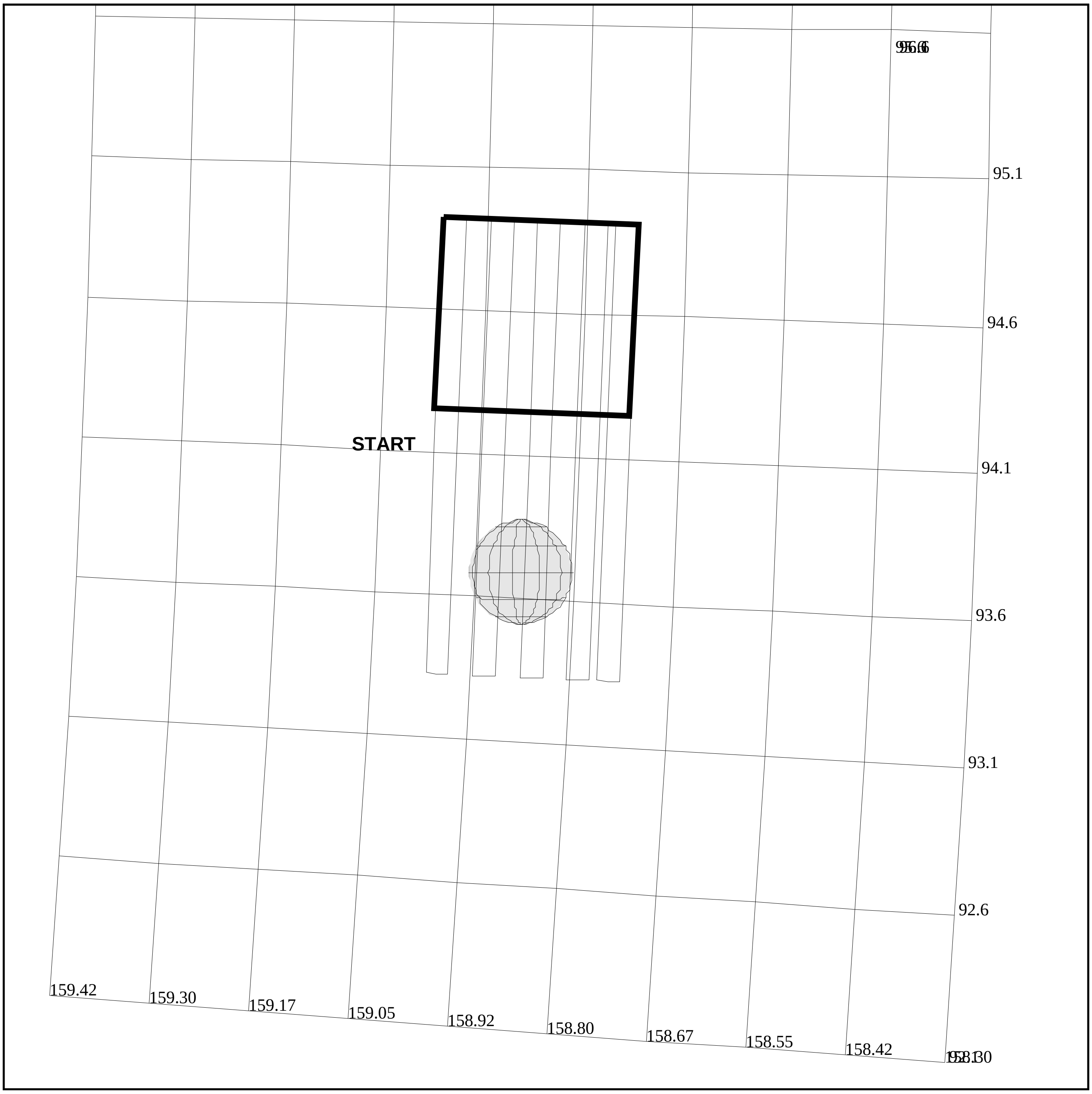
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form   05/09/97 16:17:55   rev 6/95



165EL:TT= 0 TMC= 1 C= 2.00 XC= 2.70 BS= 0/4466 TC= 3
A= 728 pD= 2972 SR=17.450 RA50=301.56 DEC50=-21.46 cone=158.98 clock= 94.16
117EL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4466
1:#s= 22 Cs= -4.00 XCs= 0.00 Cr= 4.00 XCr= 0.00 sD= 116 rD= 20

G8ENTRAIL_01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8ENWARMCV01

TARGET BODY : EUROPA

MINI:m.target

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

PERIAPSIS:

START:EEE 97-128/09:48:58.733 -CDS 459:00:0

OBSERVATION:G8ENWARMCV01

THINNING:NIM 4

BODY PLOT TIME:TARGET-TIME D= 2972 S= 0.100

DESCRIP:Europa Eclipse

EUROPA TRAILING HEMISPHERE	ACTIVITY ID: G8ENTRAIL 01-
	START TIME: 97-128/02:00:50.067

Activity ID: Orbit G8 Target E Inst N OAPEL TRAIL SeqNo 01 -

Title	EUROPA TRAILING HEMISPHERE			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 05/08/97 Week 19

Start	EEE-CDS 00000463:00:0	97-128/02:00:50.067	EEE-000/07:48:08.666
End	EEE-CDS 00000458:00:0	97-128/02:05:53.400	EEE-000/07:43:05.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G8ENTRAIL 01-
Bottom Label

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

Observation Objective

This long distant encounter of Europa Covers unique west longitude (0-90 degrees) of the Trailing Hemisphere not available in any other orbits of the GLL main tour. This is a cooperative observation with PPR.

Update: PPR will not be on this observation. The duration of this observation was shortened from 29 minutes to 1 minute, to save on tape, and 5 minutes in real-time to determine a warming curve for Europa. The total duration of this observation is 6

This observation was incorrectly mirror blocked and Europa was not observed.

Data Returned

Design Detail

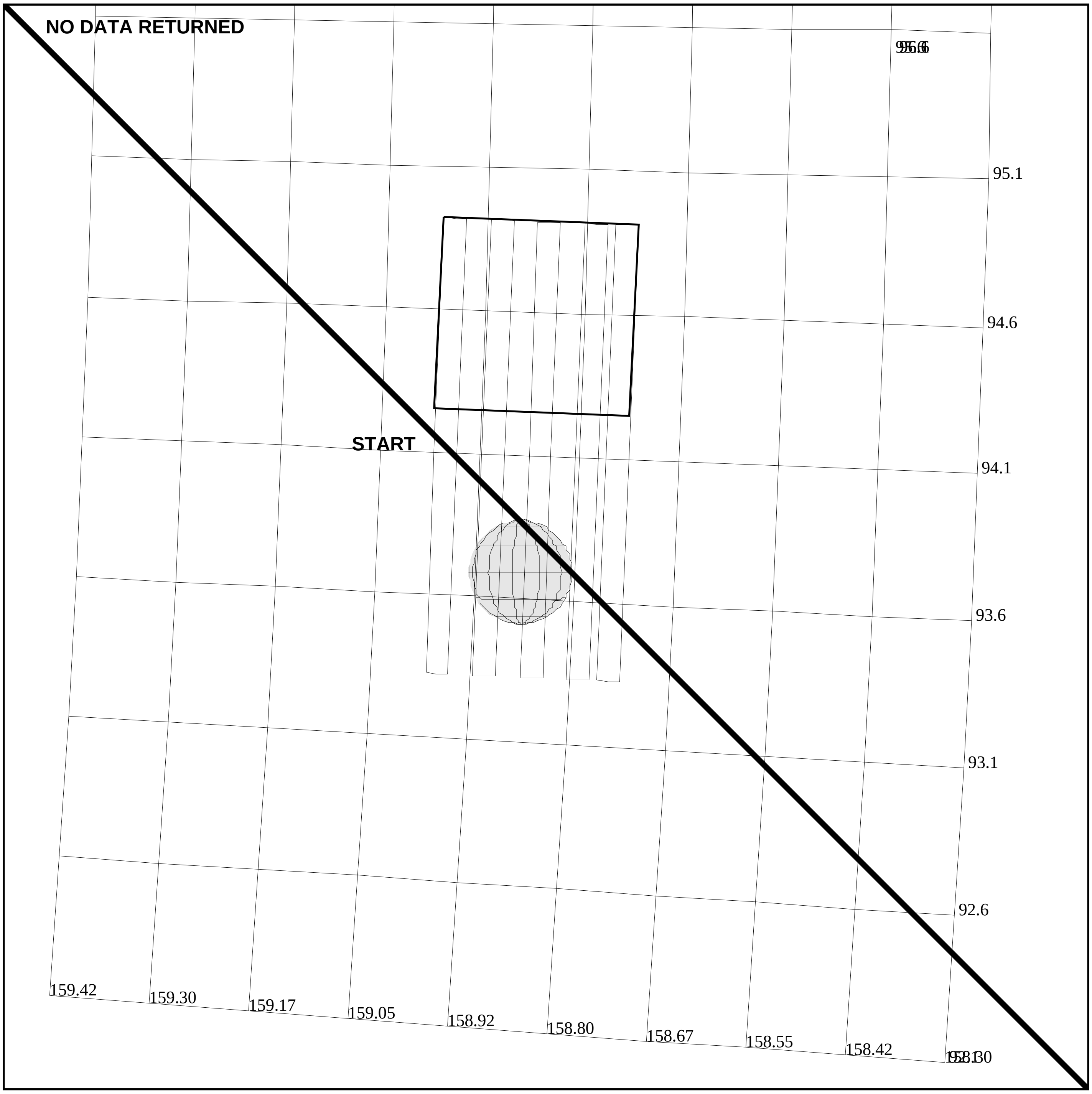
Inst. Mode = SM   Grating Position = 1   Gain State = 4
Wavelengths = 204   Phase = 28.53 deg   Resolution = approx. 600 KM
TLM = LPU
Sub S/C Lat = -0.29 deg
Sub S/C Long = 106.25 deg
Cone = 161.87 deg   Booms = Not in FOV
One scan bias towards lower end for editing.

This observation was incorrectly mirror blocked and Europa was not observed.

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

Short Map (SM), Gain 2, Grating Start 1, R/T, G8ESMRT51

Galileo Activity Plan Form   05/09/97 16:17:55   rev 6/95



165EL:TT= 0 TMC= 1 C= 2.00 XC= 2.70 BS= 0/4466 TC= 3
A= 728 pD= 2972 SR=17.450 RA50=301.56 DEC50=-21.46 cone=158.98 clock= 94.16
117EL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4466
1:#s= 22 Cs= -4.00 XCs= 0.00 Cr= 4.00 XCr= 0.00 sD= 116 rD= 20

G8ENWARMCV01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8ENWARMCV01

TARGET BODY : EUROPA

MINI:m.target

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

PERIAPSIS:

START:EEE 97-128/09:48:58.733 -CDS 459:00:0

OBSERVATION:G8ENWARMCV01

THINNING:NIM 4

BODY PLOT TIME:TARGET-TIME D= 2972 S= 0.100

DESCRIP:Europa Eclipse

Europa Warm Curve	ACTIVITY ID: G8ENWARMCV01- START TIME: 97-128/02:05:53.400

Activity ID: Orbit G8 Target E Inst N OAPEL WARMCV SeqNo 01 -

Title	Europa Warm Curve			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	EEE-CDS 00000458:00:0	97-128/02:05:53.400	EEE-000/07:43:05.333
End	EEE-CDS 00000452:00:0	97-128/02:11:57.400	EEE-000/07:37:01.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	G8ENWARMCV01-
Bottom Label	

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

Observation Objective

This long distant encounter of Europa Covers unique west longitude (0-90 degrees) of the Trailing Hemisphere not available in any other orbits of the GLL main tour. This is a cooperative observation with PPR.

Update: PPR will not be on this observation. The duration of this observation was shortened from 29 minutes to 1 minute, to save on tape, and 5 minutes in real-time to determine a warming curve for Europa. The total duration of this observation is 6

This observation was incorrectly mirror blocked and Europa was not observed.

Design Detail

Inst. Mode = SM	Grating Position = 1	Gain State = 4
Wavelengths = 204	Phase = 28.53 deg	Resolution = approx. 600 KM

TLM = LPU
Sub S/C Lat = -0.29 deg
Sub S/C Long = 106.25 deg
Cone = 161.87 deg   Booms = Not in FOV
One scan bias towards lower end for editing.

This observation was incorrectly mirror blocked and Europa was not observed.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8ESM51, G8ESM51

Galileo Activity Plan Form   05/09/97 16:17:55   rev 6/95

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NIMS Real-Time Software Reload	ACTIVITY ID: G8NNNIMSLD04- START TIME: 97-128/08:25:03.400

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 04 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE-CDS 00000195:00:0	97-128/08:25:03.400	JEE-000/03:17:10.000
End	JEE-CDS 00000185:00:0	97-128/08:35:10.067	JEE-000/03:07:03.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G8NNNIMSLD04-
Bottom Label

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

Observation Objective

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

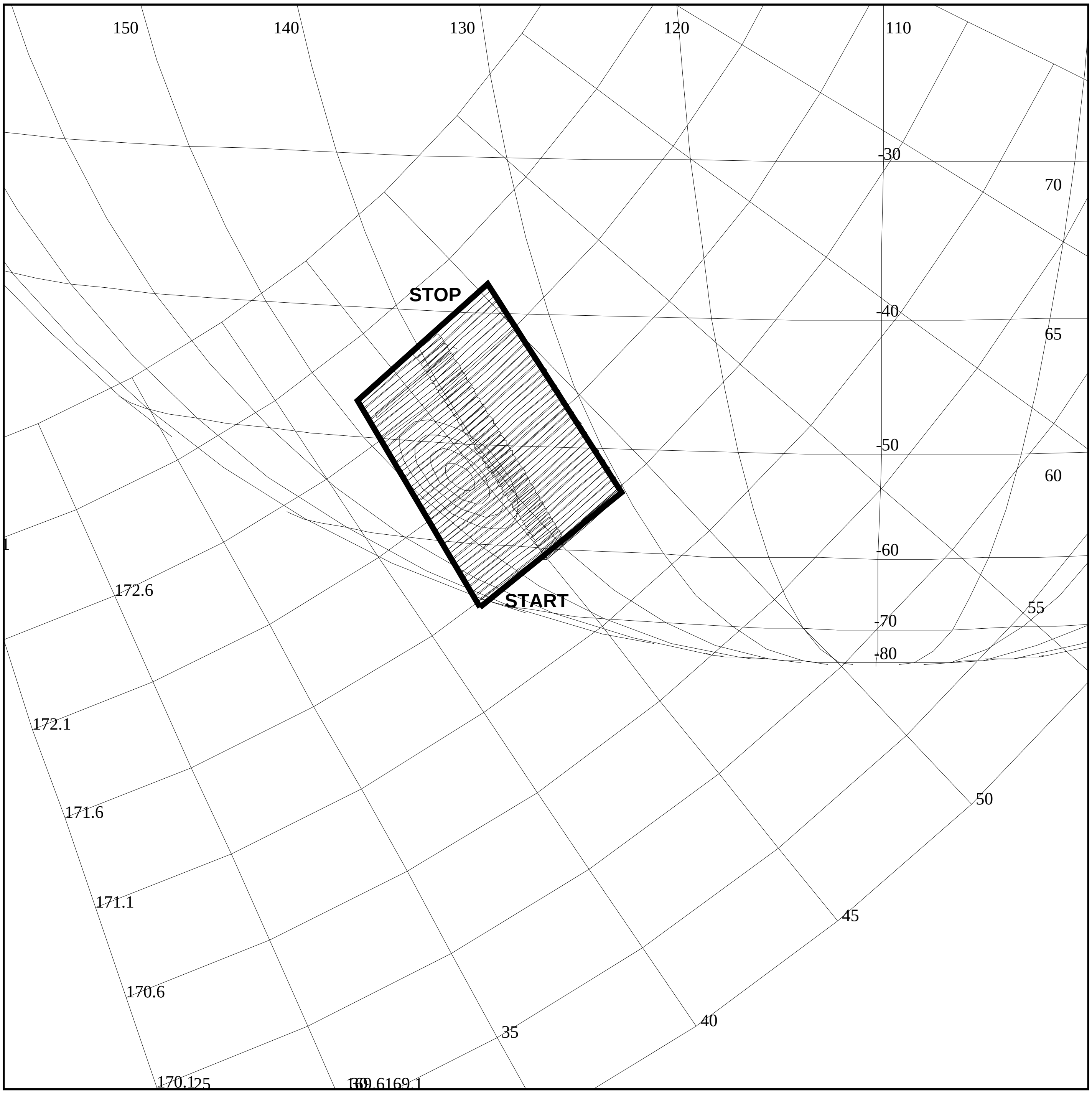
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form 05/09/97 16:17:55 rev 6/95



165EM:TT= 0 TMC= 1 C= -11.90 XC= -4.00 BS= 0/5628 TC= 1(-50.0 140.0)
A= 728 pD= 0 SR=17.450 RA50=319.74 DEC50=-22.38 cone=171.63 clock= 43.96
117EM:#SB= 1 OR= 0.110 RR= 6.000 BM=F RC= 1 BS= 0/5628
1:#s= 2 Cs= 23.80 XCs= 0.00 Cr= -21.50 XCr= 4.00 sD= 600 rD= 60

G8JNPFTB1001

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNPFTB1001

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 -CDS 180:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.200**

OBSERVATION:G8JNPFTB1001 **DESCRIP:Jup. Prt Ftr Trk B 10 deg. pt.1**

Jupiter Partial Ftr Trk B 10 deg prt 1	ACTIVITY ID:	G8JNPFTB1001-
	START TIME:	97-128/08:36:10.734

Activity ID: Orbit G8 Target J Inst N OAPEL PFTB10 SeqNo 01 -

Title	Jupiter Partial Ftr Trk B 10 deg prt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE-CDS 00000184:00:0	97-128/08:36:10.734	JEE-000/03:06:02.666
End	JEE-CDS 00000172:00:0	97-128/08:48:18.734	JEE-000/02:53:54.666
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label	G8JNPFTB1001-
Bottom Label	

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

Observation Objective

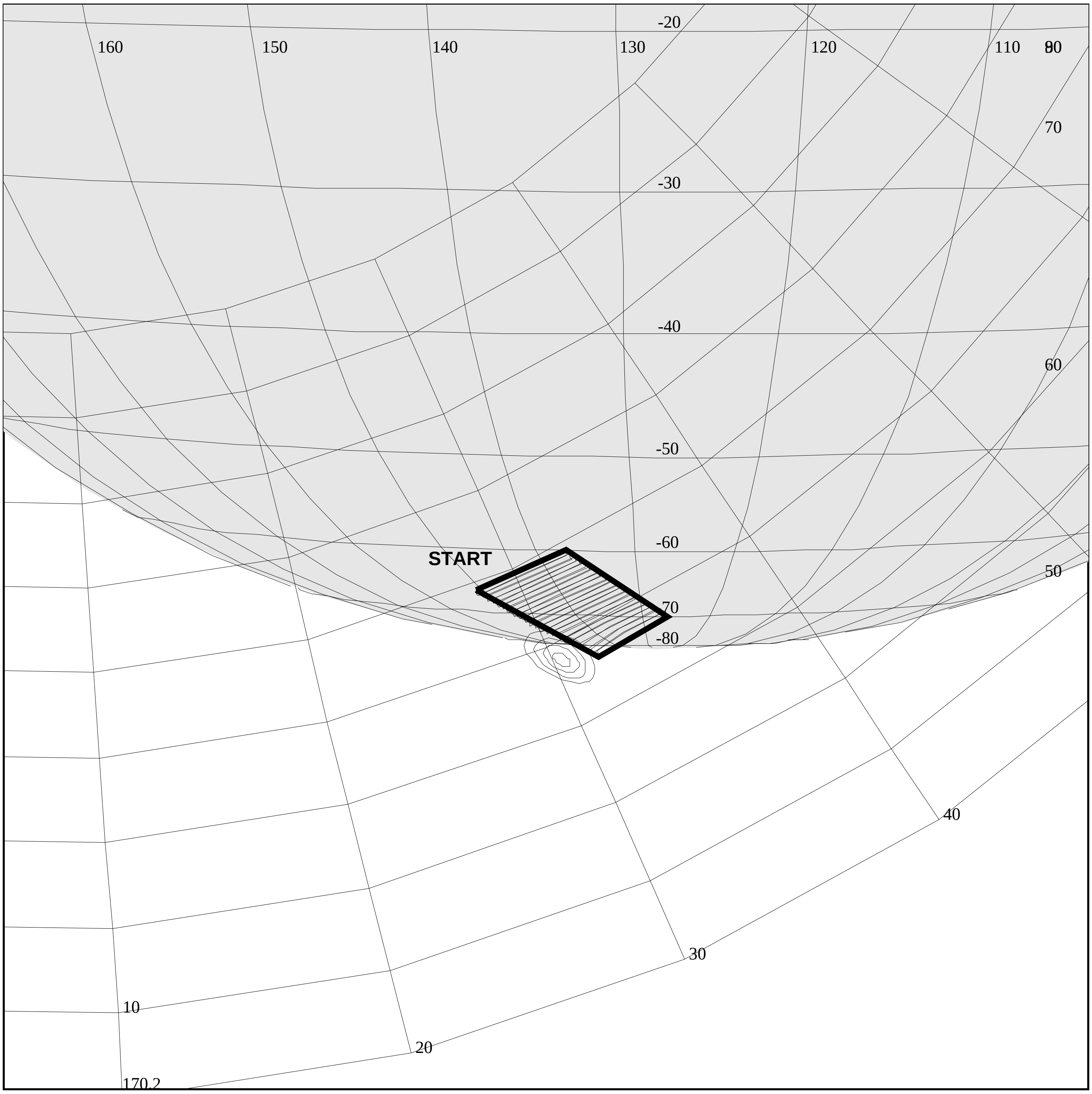
The first of seven OAPELs constituting the partial feature track B of an area at temperate latitude near 50 degrees south. This is the first observation obtained on a rotation with phase angle approximately 10 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature B near 30 degrees relative latitude and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on 50 degrees south latitude, 140 degrees west longitude.
Two tiers with twenty percent (2 mrad) overlap between tiers.
Spacecraft distance about 0.64 million KM, NIMS IFOV (NIMSEL) = 320 KM; 2 X 2 mosaic covers 12800 X 11520 KM. About 420 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.37728 MBTG in 19 colors, and using 0.01411 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT43A
Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT25A
Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C



165EO:TT=   0 TMC= 1 C=   5.00 XC=   -3.00 BS= 0/1816 TC= 1(-68.0   140.0   )
A= 728 pD=   0 SR=17.450 RA50=321.92 DEC50=-21.73 cone=172.65 clock= 30.28
117EO:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/1816
1:#s= 1 Cs=   -7.15 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD= 1080 rD=   2

G8JNFEASUB01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400   -CDS 146:00:0

OBSERVATION:G8JNFEASUB01

THINNING:NIM   2

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

DESCRIP:Jup. Feature Sub-spectra 01

Jupiter Campaign Feature sub-spectra	ACTIVITY ID:	G8JNFEASUB01-
	START TIME:	97-128/09:09:32.734

Activity ID: Orbit G8 Target J Inst N OAPEL FEASUB SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	05/08/97	Week 19

Start	JEE-CDS 00000151:00:0	97-128/09:09:32.734	JEE-000/02:32:40.666
End	JEE-CDS 00000139:85:0	97-128/09:20:44.067	JEE-000/02:21:29.333
Duration	00000011:06:0	000/00:11:11.333	000/00:11:11.333

Top Label G8JNFEASUB01-
Bottom Label

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

Observation Objective

High spectral resolution map of South Polar Boundary campaign feature, acquired in several CH4 and H2 absorption features. This single partial-spectra map obtained under good lighting conditions. During this phase angle of about 10 degrees, Jupiter imaged in 80 colors distributed among five spectral regions, using NIMS downlink wavelength table JSB80A.

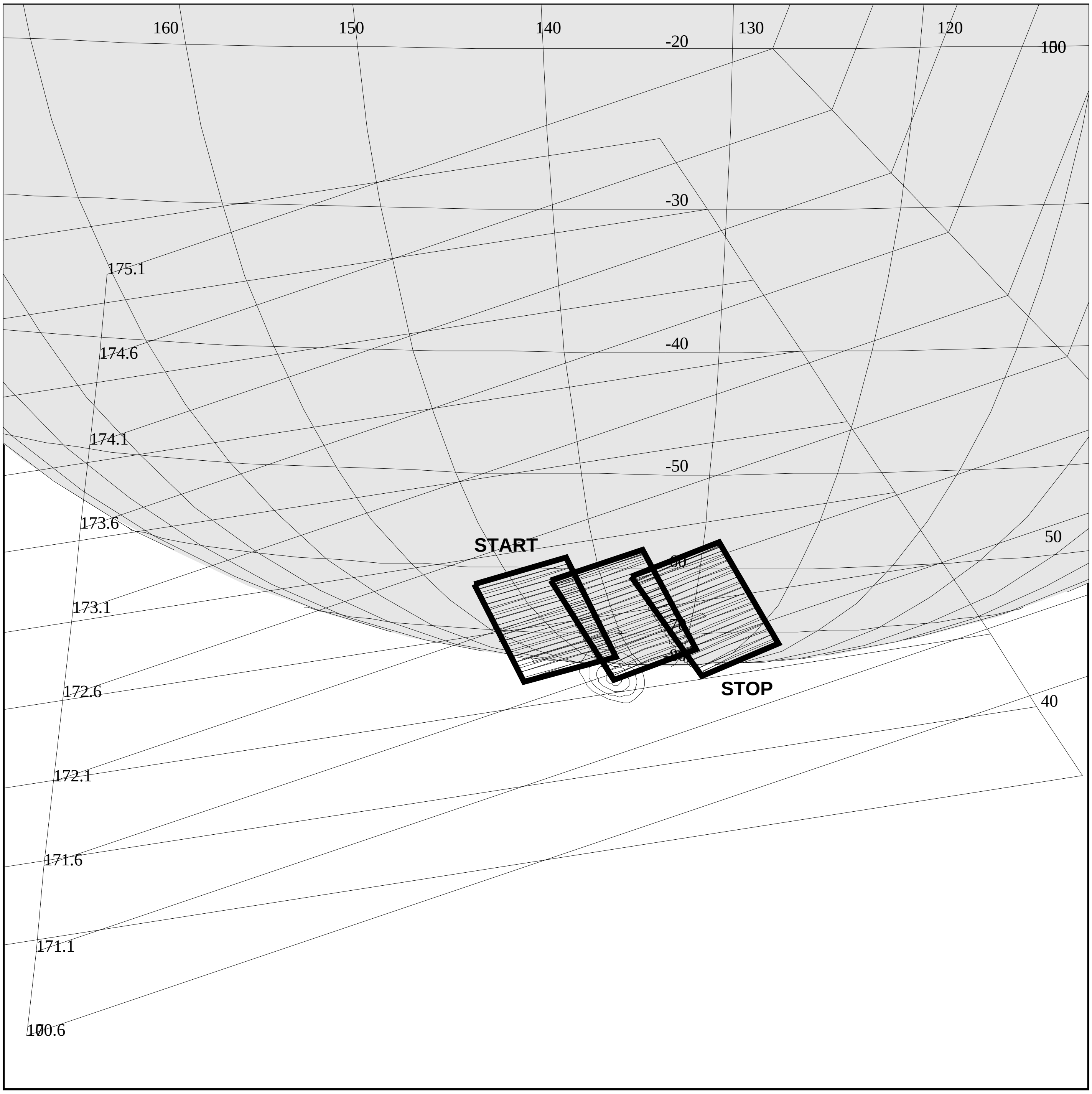
Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary campaign feature at 140 degrees west longitude, 68 degrees south planetographic latitude.
Spacecraft distance about 0.65 million KM. NIMS IFOV = 320 KM.
Map covers 6500 X 6500 KM. About 6 minutes of scanning accumulating 0.36255 MBTG and using 0.01209 tracks.
Four rims reserved for targetting.

Long Map (LM), Gain 2, Grating Start 0, LPU, G8JSB253A, G8JSB253A

Galileo Activity Plan Form   05/09/97 16:17:55   rev 6/95



165EP:TT= 0 TMC= 1 C= 8.00 XC= -8.00 BS= 0/3818 TC= 1(-68.0 140.0)
A= 364 pD= 0 SR=17.450 RA50=322.98 DEC50=-21.26 cone=173.12 clock= 22.25
117EP:#SB= 1 OR= 0.110 RR= 9.000 BM=F RC= 1 BS= 0/3818
1:#s= 3 Cs= -10.20 XCs= 0.00 Cr= 9.00 XCr= 6.00 sD= 260 rD= 60

G8JNFEAP1001

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEAP1001

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 -CDS 135:00:0

OBSERVATION:G8JNFEAP1001

THINNING:NIM 2

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

DESCRIP:Jup Fea & Prt Trk 10 deg pt 1

Jupiter Ftr and Prtl Trk 10 deg prt 1   ACTIVITY ID: G8JNFEAP1001-
START TIME: 97-128/09:20:44.067

Activity ID: Orbit G8 Target J Inst N OAPEL FEAP10 SeqNo 01 -

Title	Jupiter Ftr and Prtl Trk 10 deg prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS   Load ID   Calendar Date 05/08/97 Week 19

Start	JEE-CDS 00000139:85:0	97-128/09:20:44.067	JEE-000/02:21:29.333
End	JEE-CDS 00000128:00:0	97-128/09:32:48.067	JEE-000/02:09:25.333
Duration	00000011:85:0	000/00:12:04.000	000/00:12:04.000

Top Label   G8JNFEAP1001-
Bottom Label

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

Observation Objective

One of 16 OAPELS constituting the South Polar Boundary feature track. Also, the first of 6 OAPELS constituting the partial feature track covering additional territory to the east and west of the prime feature. For both features, this is the first observation at this phase angle. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature near the central meridian and minimum airmass.

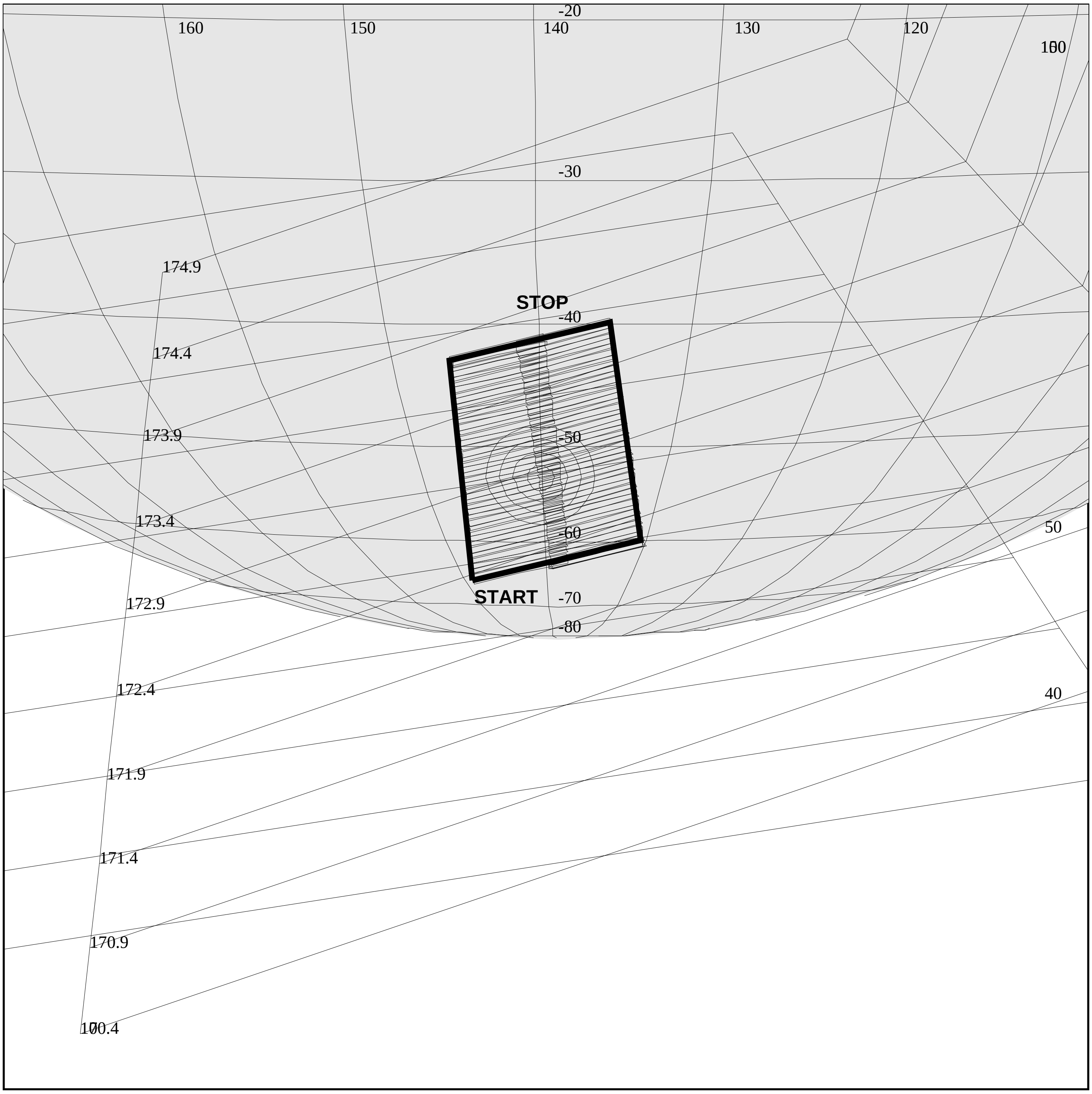
Data Returned

Design Detail

Short map, Nyquist-sampled observation of a 3 X 1 (30 X 10 mrad) scan of the Southern Polar Boundary centered at 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 0.65 million KM, NIMS IFOV (NIMSEL) = 325 KM;
3 X 1 mosaic covers 19500 X 6500 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks.
Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form   05/09/97 16:17:55   rev 6/95



165EQ:TT= 0 TMC= 1 C= -12.00 XC= -5.00 BS= 0/5638 TC= 1(-50.0 140.0)
A= 364 pD= 0 SR=17.450 RA50=323.38 DEC50=-21.31 cone=173.03 clock= 19.23
117EQ:#SB= 1 OR= 0.110 RR= 7.500 BM=F RC= 1 BS= 0/5638
1:#s= 2 Cs= 23.80 XCs= 0.00 Cr= -23.00 XCr= 4.00 sD= 600 rD= 60

G8JNPFTB1002

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNPFTB1002

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 -CDS 125:00:0

OBSERVATION:G8JNPFTB1002

THINNING:NIM 2

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

DESCRIP:Jup Prt Ftr Trk B 10 deg. pt.2

Jupiter Partial Ftr Trk B 10 deg prt 2   ACTIVITY ID: G8JNPFTB1002-
START TIME: 97-128/09:33:48.734

Activity ID: Orbit G8 Target J Inst N OAPEL PFTB10 SeqNo 02 -

Title	Jupiter Partial Ftr Trk B 10 deg prt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE-CDS 00000127:00:0	97-128/09:33:48.734	JEE-000/02:08:24.666
End	JEE-CDS 00000118:00:0	97-128/09:42:54.734	JEE-000/01:59:18.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label   G8JNPFTB1002-
Bottom Label

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

Observation Objective

The second of seven OAPELs constituting the partial feature track B of an area at temperate latitude near 50 degrees south. This is the second observation obtained on a rotation with phase angle approximately 10 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature B near the central meridian and minimum airmass, assuming feature coordinates 50 degrees south latitude and 140 degrees west longitude (System III).

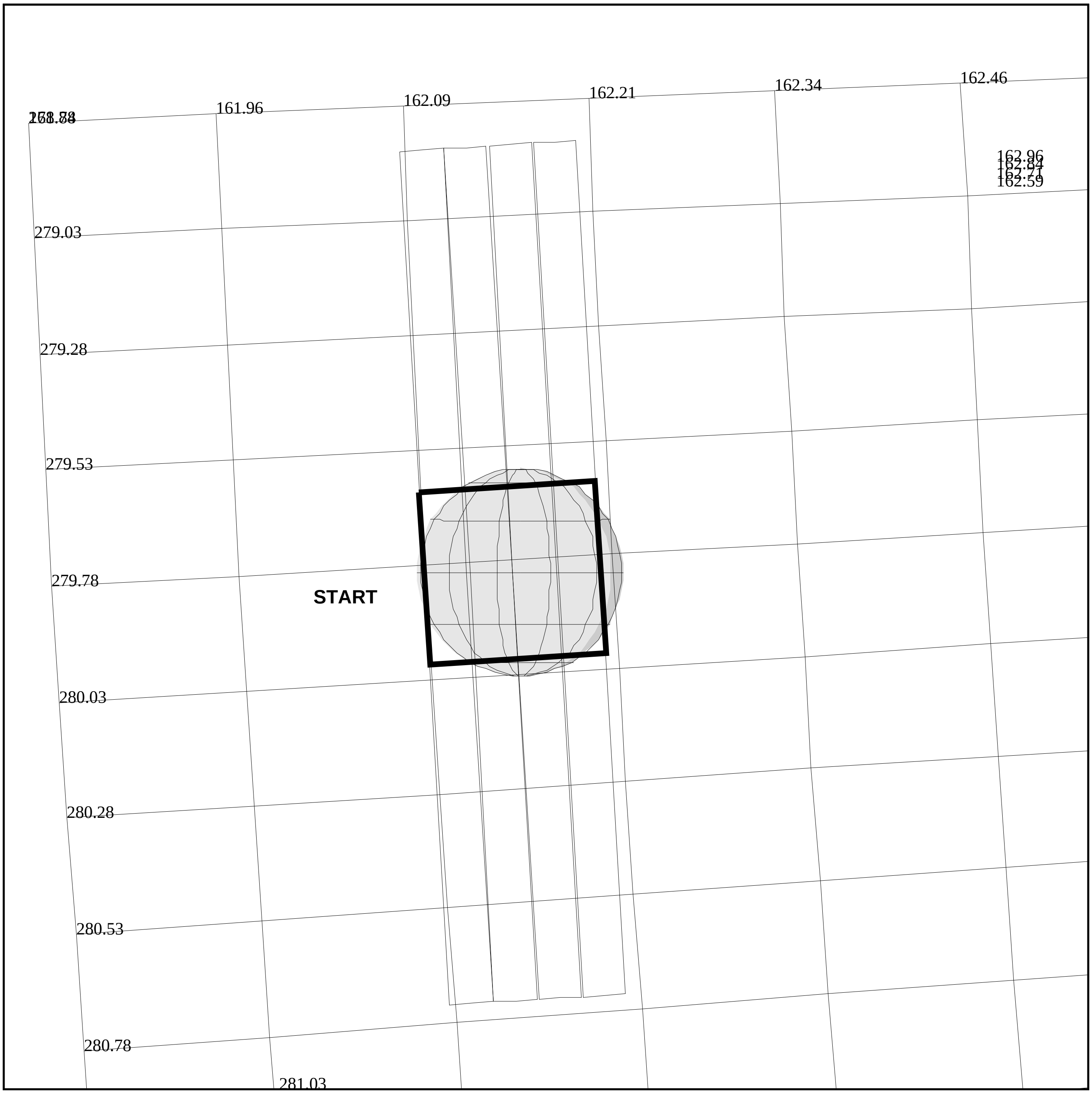
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on 50 degrees south latitude, 140 degrees west longitude.
There are two tiers with 2mrad overlap Spacecraft distance about 0.64 million KM, NIMS IFOV (NIMSEL) = 320 KM;
2 X 2 mosaic covers 12800 X 11520 KM. About 420 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.37728 MBTG in 19 colors, and using 0.01411 tracks.
Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form   05/09/97 16:17:55   rev 6/95



165SB:TT= 0 TMC= 1 C= -1.00 XC= 0.00 BS= 0/1462 TC= 3
A= 728 pD= 182 SR=17.450 RA50=339.70 DEC50= -8.60 cone=162.09 clock=279.81
117SB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1462
1:#s= 1 Cs= 1.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

G8ENEURORT01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8ENEURORT01

TARGET BODY : EUROPA

MINI:m.target

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

PERIAPSIS:

START:EEE 97-128/09:48:58.733 +CDS 19:00:0

OBSERVATION:G8ENEURORT01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 182 S= 0.200

DESCRIP:NIMS_EUROPA_REAL-TIME_OBS

NIMS Europa Real-Time Observation ACTIVITY ID: G8ENEURORT01-
START TIME: 97-128/10:04:08.733

Activity ID: Orbit G8 Target E Inst N OAPEL EURORT SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	05/08/97	Week 19

Start	EEE+CDS 00000015:00:0	97-128/10:04:08.733	EEE+000/00:15:10.000
End	EEE+CDS 00000020:00:0	97-128/10:09:12.066	EEE+000/00:20:13.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G8ENEURORT01-
Bottom Label

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

Observation Objective

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

Data Returned

Design Detail

NIMS mode LM, mirror block, 408 wavelengths.

Target centor of disk.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, RT408

Galileo Activity Plan Form 05/09/97 16:17:55 rev 6/95

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NIMS Real-Time Software Reload          ACTIVITY ID:   G8NNNIMSLD05-
                                         START TIME:   97-128/10:48:38.067

Activity ID: Orbit G8  Target N  Inst N  OAPEL NIMSLD  SeqNo 05 -

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

Time System  CDS       Load ID         Calendar Date  05/08/97  Week  19

Start        JEE-CDS 00000053:00:0 97-128/10:48:38.067   JEE-000/00:53:35.333
End          JEE-CDS 00000043:00:0 97-128/10:58:44.734   JEE-000/00:43:28.666
Duration            00000010:00:0     000/00:10:06.667       000/00:10:06.667

Top Label    G8NNNIMSLD05-
Bottom Label

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

Observation Objective

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

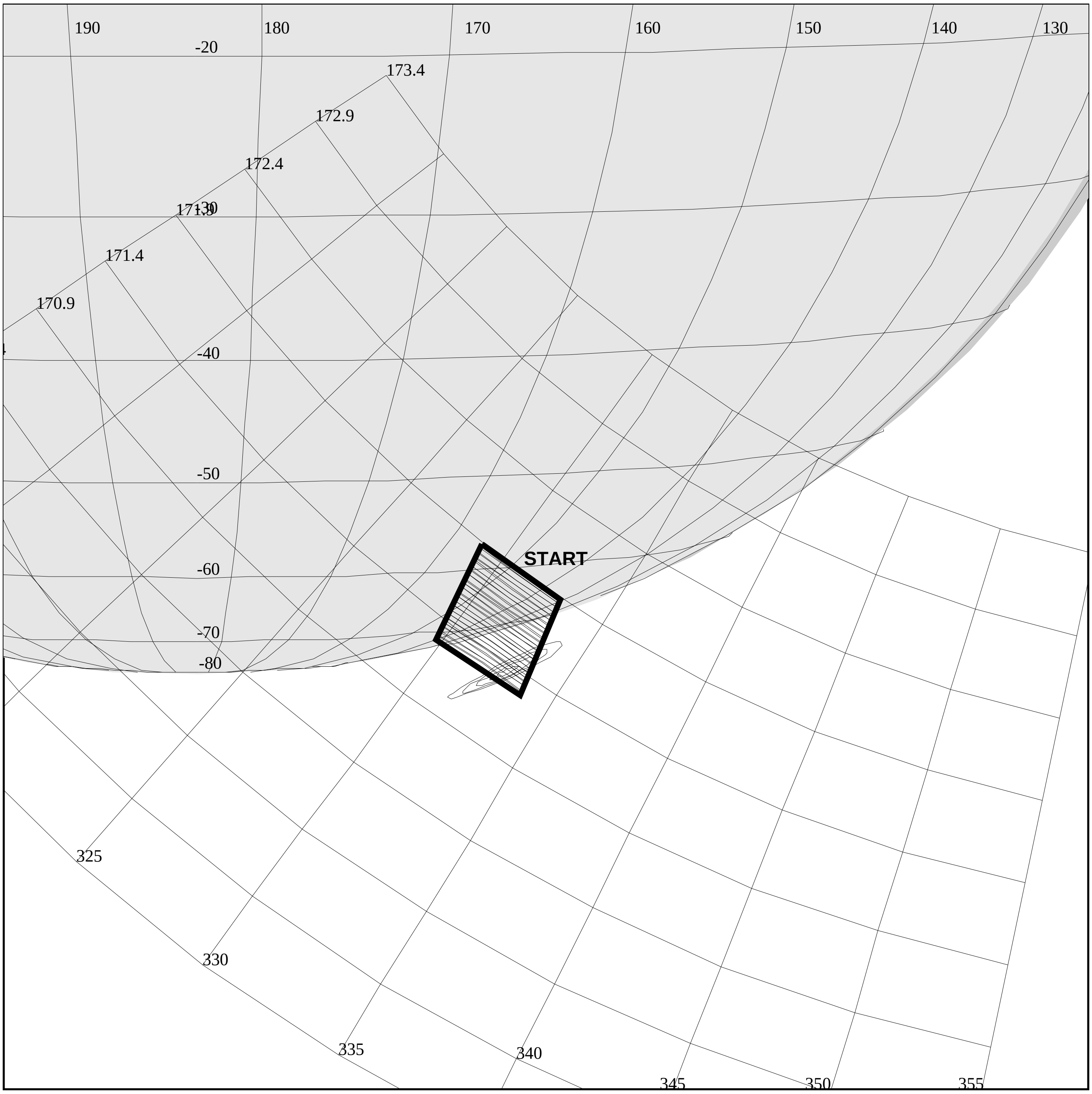
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form   05/09/97 16:17:55   rev 6/95



165ER:TT= 0 TMC= 1 C= 5.90 XC= 0.00 BS= 0/1472 TC= 1(-68.0 140.0)
A= 728 pD= 0 SR=17.450 RA50=329.52 DEC50=-18.86 cone=171.85 clock=330.95
117ER:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/1472
1:#s= 1 Cs= -11.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA01001

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA01001

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 -CDS 38:00:0

OBSERVATION:G8JNFEA01001

THINNING:NIM 2

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

DESCRIP:Jup Fea Trk 10 deg phase

Jupiter Feature Track 10 deg phase	ACTIVITY ID:	G8JNFEA01001-
	START TIME:	97-128/10:59:45.400

Activity ID: Orbit G8 Target J Inst N OAPEL FEA010 SeqNo 01 -

Title	Jupiter Feature Track 10 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE-CDS 00000042:00:0	97-128/10:59:45.400	JEE-000/00:42:28.000
End	JEE-CDS 00000036:00:0	97-128/11:05:49.400	JEE-000/00:36:24.000
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label   G8JNFEA01001-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the third of three observations obtained on a rotation with phase angle approximately 10 degrees (the other two observations are combined with partial feature track A observations in FEAP1001 and FEAP1002). Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with South Polar Boundary feature toward the limb, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

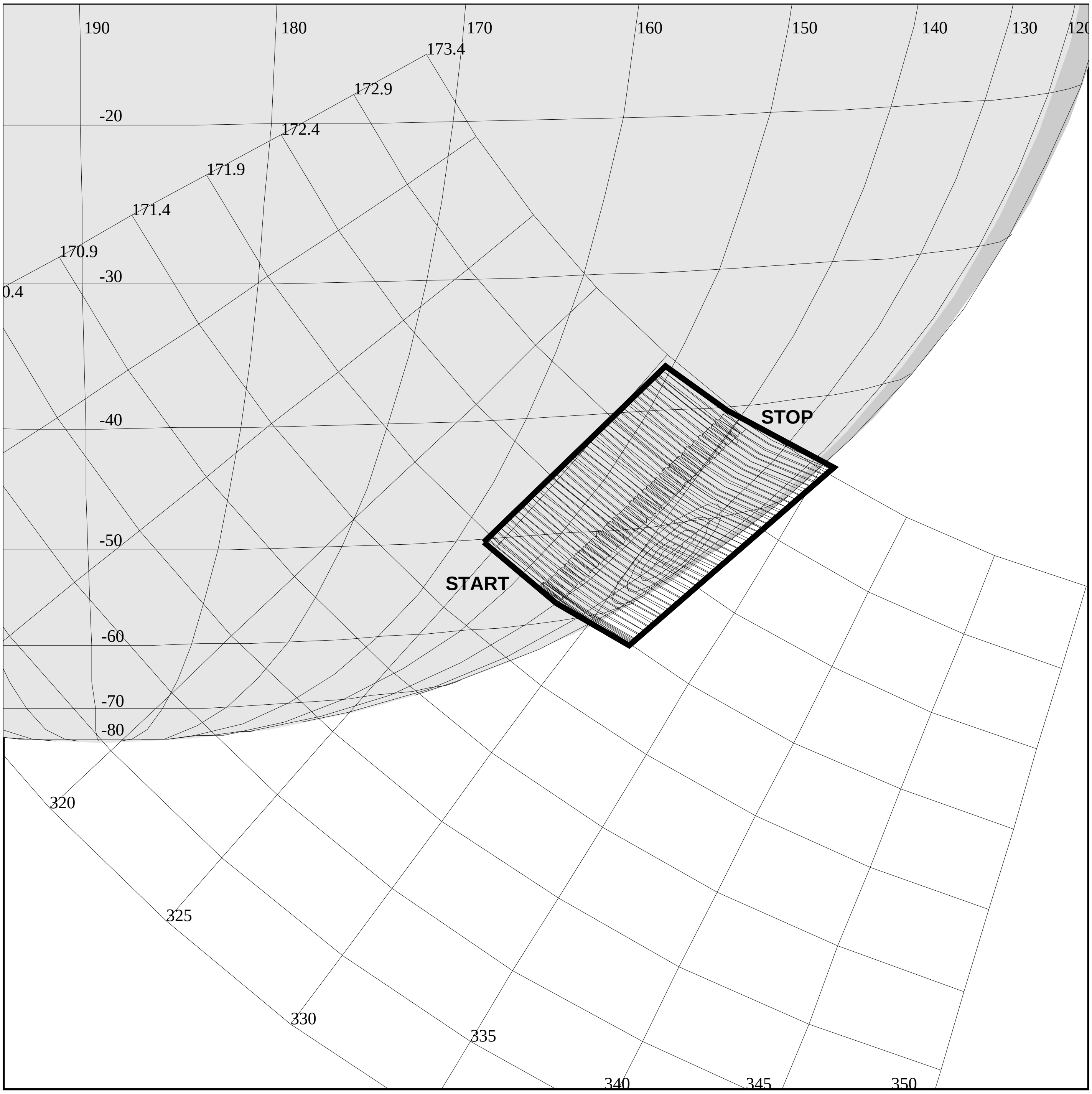
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude.
Spacecraft distance about 0.65 million KM, NIMS IFOV (NIMSEL) = 325 KM; 1 X 1 mosaic covers 6500 X 6500 KM. About 100 seconds of scanning, accumulating 0.08983 MBTG in 19 colors, and using 0.00336 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form   05/09/97 16:17:55   rev 6/95



165ES:TT= 0 TMC= 1 C= -11.90 XC= -7.00 BS= 0/3474 TC= 1(-50.0 140.0)
A= 364 pD= 0 SR=17.450 RA50=329.85 DEC50=-18.30 cone=171.86 clock=326.45
117ES:#SB= 1 OR= 0.110 RR= 7.000 BM=F RC= 1 BS= 0/3474
1:#s= 2 Cs= 23.80 XCs= 0.00 Cr= -26.00 XCr= 4.00 sD= 600 rD= 60

G8JNPFTB1003

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNPFTB1003

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 -CDS 27:00:0

OBSERVATION:G8JNPFTB1003

THINNING:NIM 2

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

DESCRIP:Jup Prt Ftr Trk B 10 deg. pt.3

Jupiter Partial Ftr Trk B 10 deg prt 3	ACTIVITY ID:	G8JNPFTB1003-	
	START TIME:	97-128/11:12:54.067	

Activity ID: Orbit G8 Target J Inst N OAPEL PFTB10 SeqNo 03 -

Title	Jupiter Partial Ftr Trk B 10 deg prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 05/08/97 Week 19

Start	JEE-CDS 00000029:00:0	97-128/11:12:54.067	JEE-000/00:29:19.333
End	JEE-CDS 00000020:00:0	97-128/11:22:00.067	JEE-000/00:20:13.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label G8JNPFTB1003-
Bottom Label

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

Observation Objective

The third of seven OAPELs constituting the partial feature track B of an area at temperate latitude near 50 degrees south. This is the third observation obtained on a rotation with phase angle approximately 10 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature B near the terminator/limb assuming feature coordinates 50 degrees south latitude and 140 degrees west longitude (System III).

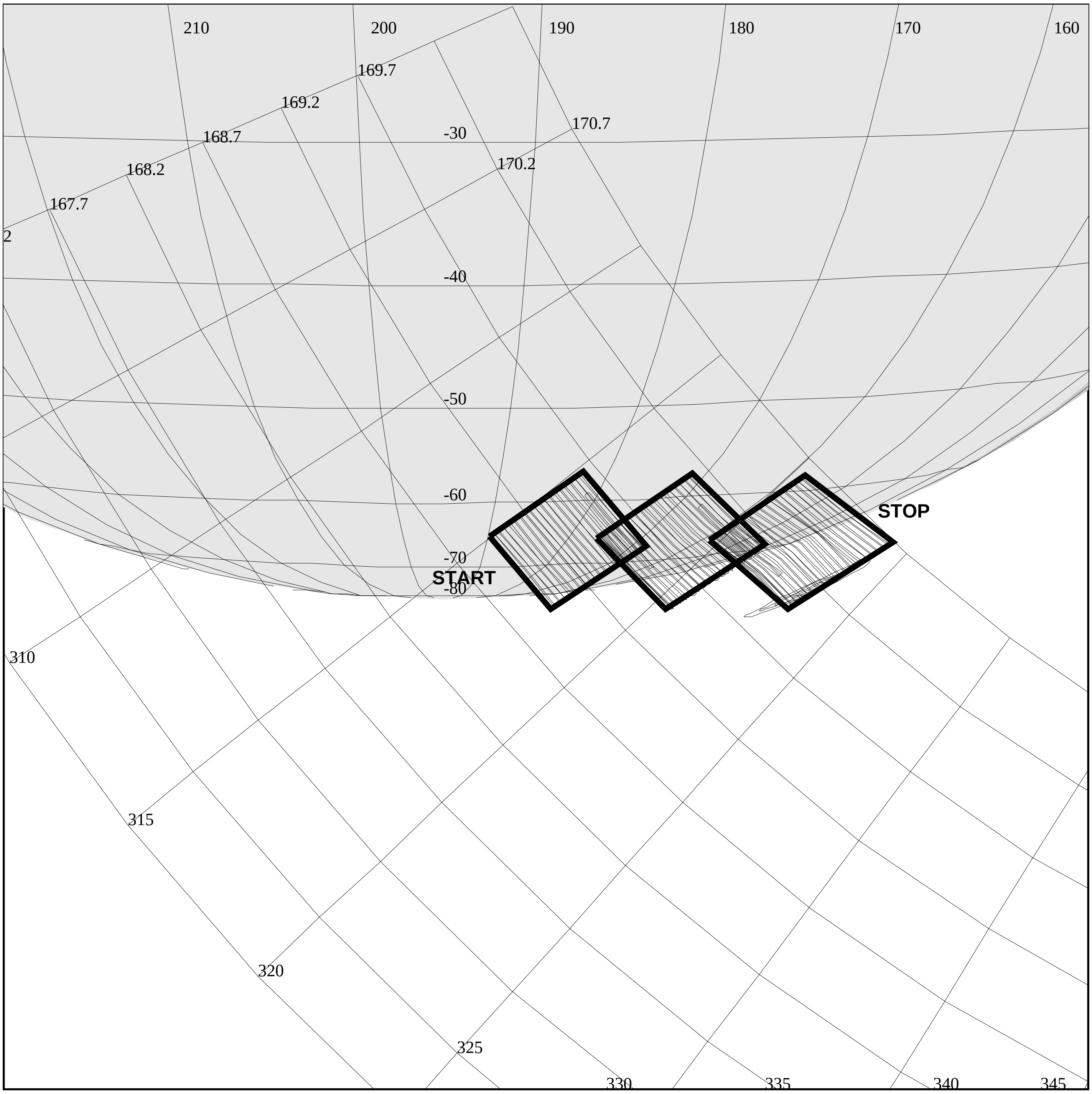
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on 50 degrees south latitude, 140 degrees west longitude. Spacecraft distance about 0.64 million KM, NIMS IFOV (NIMSEL) = 320 KM; 2 X 2 mosaic covers 12800 X 11520 KM. About 420 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.37728 MBTG in 19 colors, and using 0.01411 tracks. Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form 05/09/97 16:17:56 rev 6/95



165ET:TT= 0 TMC= 1 C= -23.00 XC= -15.00 BS= 0/5658 TC= 1(-68.0 140.0)
A= 364 pD= 0 SR=17.450 RA50=333.30 DEC50=-17.84 cone=168.98 clock=316.45
117ET:#SB= 1 OR= 0.110 RR= 8.700 BM=F RC= 1 BS= 0/5658
1:#s= 3 Cs= 10.20 XCs= 0.00 Cr= -3.00 XCr= 6.00 sD= 260 rD= 60

G8JNFEAP1002

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEAP1002

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 -CDS 15:00:0

OBSERVATION:G8JNFEAP1002

THINNING:NIM 2

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

DESCRIP:Jup Fea & Prt Trk 10 deg pt.2

Jupiter Ftr and Prtl Trk deg prt 2	ACTIVITY ID:	G8JNFEAP1002-
	START TIME:	97-128/11:25:02.067

Activity ID: Orbit G8 Target J Inst N OAPEL FEAP10 SeqNo 02 -

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

Time System CDS Load ID Calendar Date 05/08/97 Week 19

Start	JEE-CDS 00000017:00:0	97-128/11:25:02.067	JEE-000/00:17:11.333
End	JEE-CDS 00000010:00:0	97-128/11:32:06.734	JEE-000/00:10:06.666
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G8JNFEAP1002-
Bottom Label

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

Observation Objective

One of 16 OAPELS constituting the South Polar Boundary feature track. Also, the second of 6 OAPELS constituting the partial feature track covering additional territory to the east and west of the prime feature. For both features, this is the first observation at this phase angle. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature near the terminator/limb.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of a 3 X 1 (30 X 10 mrad) scan of the Southern Polar Boundary centered at 140 degrees west longitude, 68 degrees south planetographic latitude.
Spacecraft distance about 0.65 million KM, NIMS IFOV (NIMSEL) = 325 KM; 3 X 1 mosaic covers 19500 X 6500 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks.
Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

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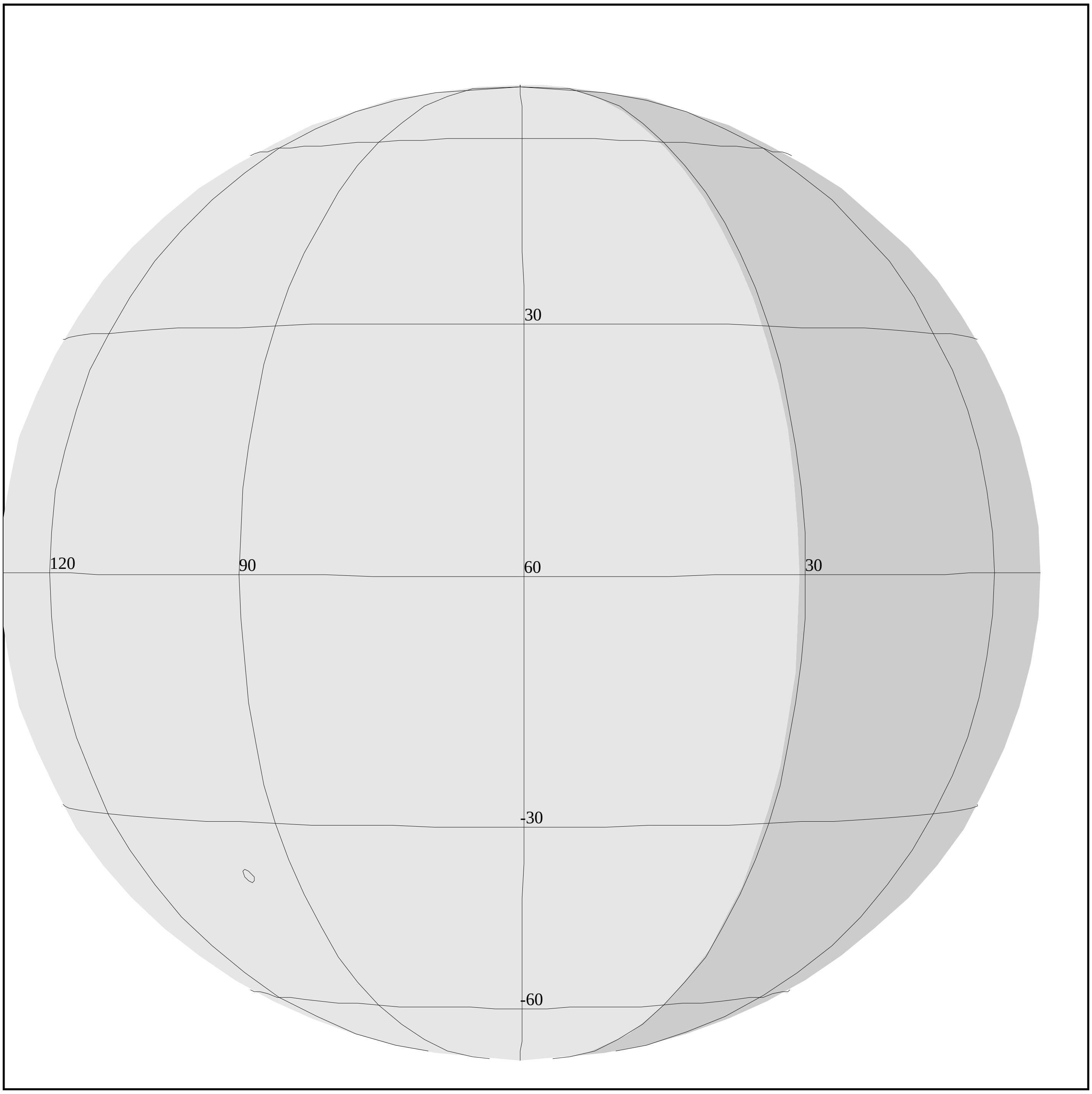

165HD:TT= 0 TMC= 1 C= -1.00 XC= 0.00 BS= 0/4464 TC= 1(-2 90)
A= 728 pD= 0 SR=17.450 RA50= 10.58 DEC50= 5.34 cone=128.31 clock=277.81
117HD:#SB= 3 OR= 0.260 RR=12.000 BM=F RC= 1 BS= 0/4464
1:#s= 14 Cs= 56.00 XCs= 0.00 Cr= -57.50 XCr= 1.00 sD= 638 rD= 30
2:#s= 1 Cs= 1.00 XCs= 0.00 Cr= -67.00 XCr= 30.00 sD= 60 rD= 36
3:#s= 8 Cs= 18.00 XCs= 0.00 Cr= -19.00 XCr= 1.00 sD= 216 rD= 20

G8NNHEALTH04

DESIGN G3.1 jdods: 4/11/1997 8:38:11

FILE:P.G8JPREG06201

CENTRAL BODY:JUPITER III

MINI:m.G8JPREG06201

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

PERIAPSIS:

THINNING: :PPR 2

START:JEE 97-128/11:42:13.400 +CDS 418:00:0

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

OBSERVATION:G8JPREG06201

DESCRIP:G8JPREG06201

NIMS Health Observation		ACTIVITY ID:	G8NNHEALTH04-
		START TIME:	97-128/19:46:32.733

Activity ID: Orbit G8 Target N Inst N OAPEL HEALTH SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE+CDS	00000479:00:0	97-128/19:46:32.733	JEE+000/08:04:19.333
End	JEE+CDS	00000483:00:0	97-128/19:50:35.400	JEE+000/08:08:22.000
Duration		00000004:00:0	000/00:04:02.667	000/00:04:02.667

Top Label	G8NNHEALTH04-
Bottom Label	

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

Observation Objective

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

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, RT.

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

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NIMS Real-Time Software Reload — ACTIVITY ID: G8NNNIMSLD06- — START TIME: 97-128/19:50:35.400

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 06 -

Title	NIMS Real-Time Software Reload	Instrument	NIMS
Requestor	NIMS-AWG/K. Baines Team NIMS	Working Group	AWG

Time System CDS   Load ID   Calendar Date 05/08/97 Week 19

Start	JEE+CDS 00000483:00:0	97-128/19:50:35.400	JEE+000/08:08:22.000
End	JEE+CDS 00000493:00:0	97-128/20:00:42.066	JEE+000/08:18:28.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label G8NNNIMSLD06-
Bottom Label

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

Observation Objective

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

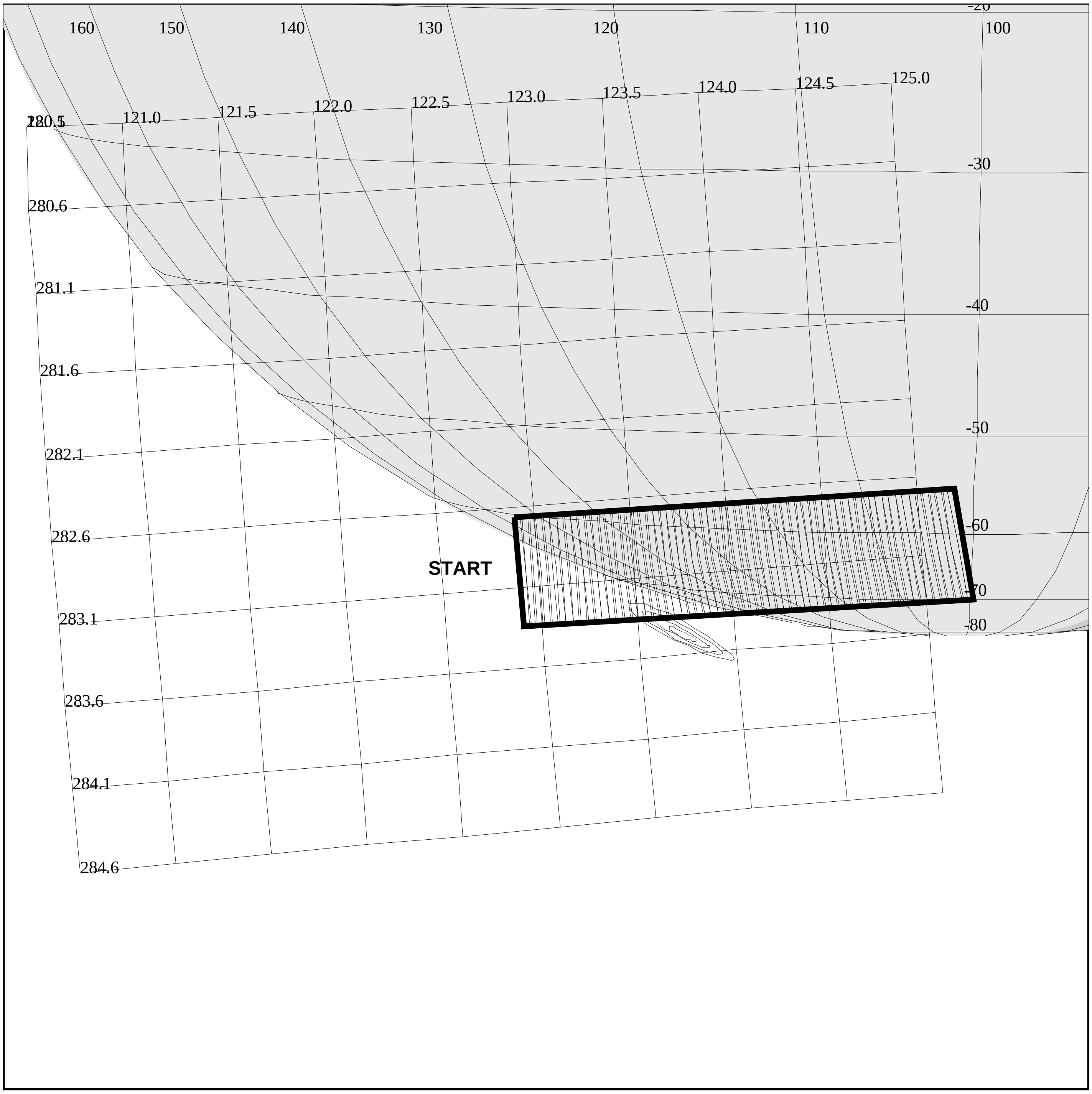
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form   05/09/97 16:17:56   rev 6/95



165EU:TT= 0 TMC= 1 C= -16.00 XC= -2.00 BS= 0/8296 TC= 1(-68.0 140.0)
A= 728 pD= 0 SR=17.450 RA50= 17.09 DEC50= 3.39 cone=122.96 clock=282.96
117EU:#SB= 1 OR= 0.110 RR= 3.000 BM=F RC= 1 BS= 0/8296
1:#s= 1 Cs= 35.80 XCs= 0.00 Cr= -12.50 XCr= 8.00 sD= 900 rD= 24

G8JNFEAP7101

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEAP7101

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 +CDS 494:00:0

OBSERVATION:G8JNFEAP7101

THINNING:NIM 2

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

DESCRIP:Jup Fea & Prt Trk 71 deg pt.1

Jupiter ftr and Prtl Trk 71 deg prt 1   ACTIVITY ID: G8JNFEAP7101-
START TIME: 97-128/20:00:42.066

Activity ID: Orbit G8 Target J Inst N OAPEL FEAP71 SeqNo 01 -

Title	Jupiter ftr and Prtl Trk 71 deg prt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 05/08/97	Week 19

Start	JEE+CDS 00000493:00:0	97-128/20:00:42.066	JEE+000/08:18:28.666
End	JEE+CDS 00000500:00:0	97-128/20:07:46.733	JEE+000/08:25:33.333
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label   G8JNFEAP7101-
Bottom Label

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

Observation Objective

One of 16 OAPELS constituting the South Polar Boundary feature track. Also, the third of 6 OAPELS constituting the partial feature track covering additional territory to the east and west of the prime feature. For both features, this is the first observation at this phase angle. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature near minimum airmass.

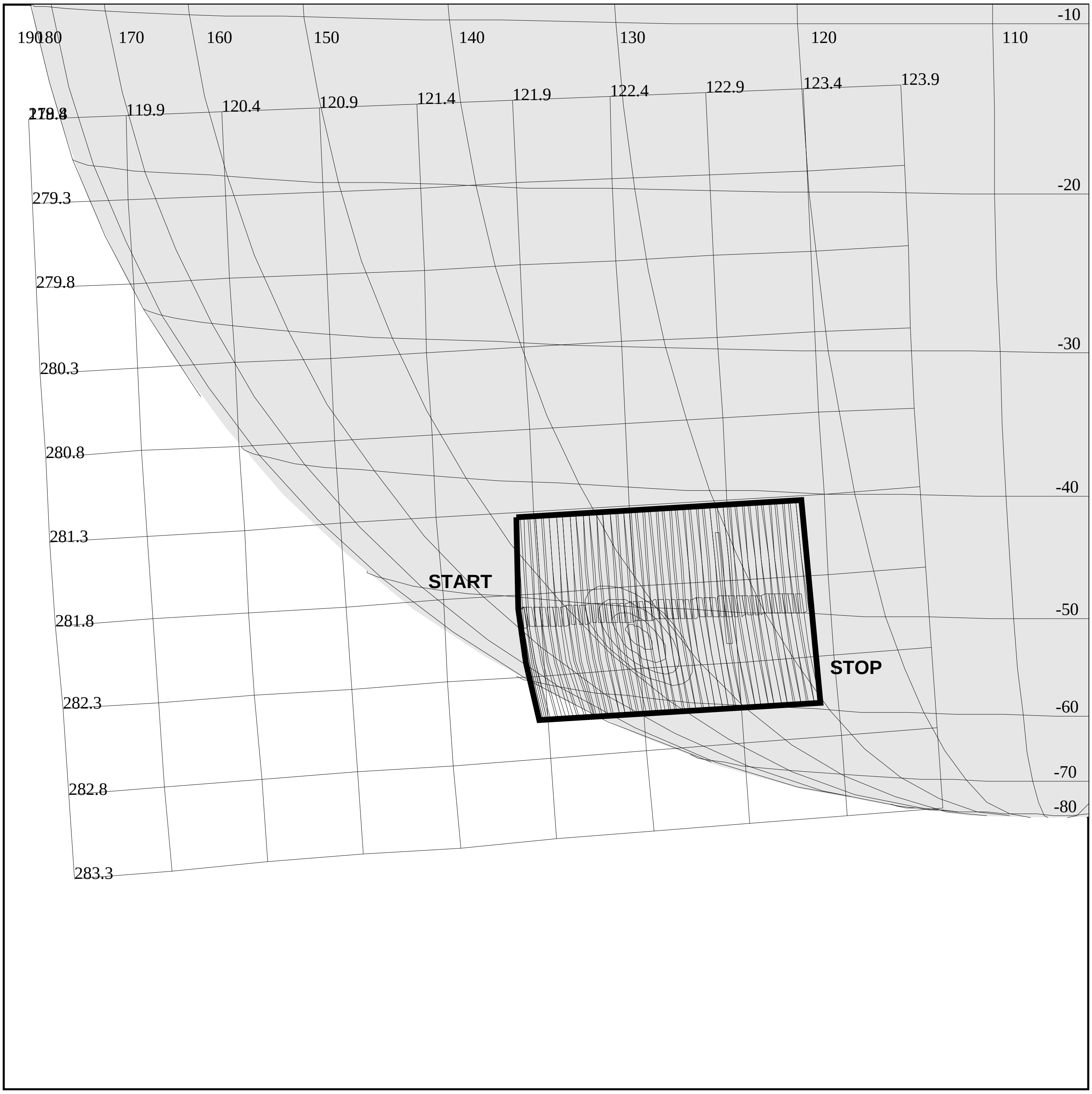
Data Returned

Design Detail

Short map, Nyquist-sampled observation of a 3 X 1 (30 X 10 mrad) scan of the Southern Polar Boundary centered at 140 degrees west longitude, 68 degrees south planetographic latitude.
Spacecraft distance about 0.74 million KM, NIMS IFOV (NIMSEL) = 370 KM; 3 X 1 mosaic covers 22200 X 7400 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form   05/09/97 16:17:56   rev 6/95



165EV:TT= 0 TMC= 1 C= -11.90 XC= -4.00 BS= 0/0298 TC= 1(-50.0 140.0)
A= 364 pD= 0 SR=17.450 RA50= 17.86 DEC50= 4.79 cone=121.77 clock=281.71
117EV:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/0298
1:#s= 2 Cs= 23.80 XCs= 0.00 Cr= -27.00 XCr= 8.00 sD= 600 rD= 60

G8JNPFTB7101

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNPFTB7101

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 505:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:G8JNPFTB7101 **DESCRIP:Jup Prt Ftr Trk B 71 deg pt.1**

Jupiter Partial Ftr Trk B 71 deg prt 1	ACTIVITY ID:	G8JNPFTB7101-	
	START TIME:	97-128/20:10:48.733	

Activity ID: Orbit G8 Target J Inst N OAPEL PFTB71 SeqNo 01 -

Title	Jupiter Partial Ftr Trk B 71 deg prt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE+CDS 00000503:00:0	97-128/20:10:48.733	JEE+000/08:28:35.333
End	JEE+CDS 00000520:00:0	97-128/20:28:00.066	JEE+000/08:45:46.666
Duration	00000017:00:0	000/00:17:11.333	000/00:17:11.333

Top Label	G8JNPFTB7101-
Bottom Label	

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

Observation Objective

The fourth of seven OAPELs constituting the partial feature track B of an area at temperate latitude near 50 degrees south. This is the first observation obtained on a rotation with phase angle approximately 71 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature B near minimum airmass, assuming feature coordinates 50 degrees south latitude and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on 50 degrees south latitude, 140 degrees west longitude. Spacecraft distance about 0.74 million KM, NIMS IFOV (NIMSEL) = 370 KM; 2 X 2 mosaic covers 14800 X 13320 KM including 20 percent overlap between tiers. About 420 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.37728 MBTG in 19 colors, and using 0.01411 tracks. Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT43A
Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT25A
Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form 05/09/97 16:17:56 rev 6/95

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NIMS Real-Time Software Reload   ACTIVITY ID: G8NNNIMSLD07-
START TIME: 97-128/20:53:16.733

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 07 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/08/97 Week 19

Start	JEE+CDS 00000545:00:0	97-128/20:53:16.733	JEE+000/09:11:03.333
End	JEE+CDS 00000555:00:0	97-128/21:03:23.400	JEE+000/09:21:10.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   G8NNNIMSLD07-
Bottom Label

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

Observation Objective

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

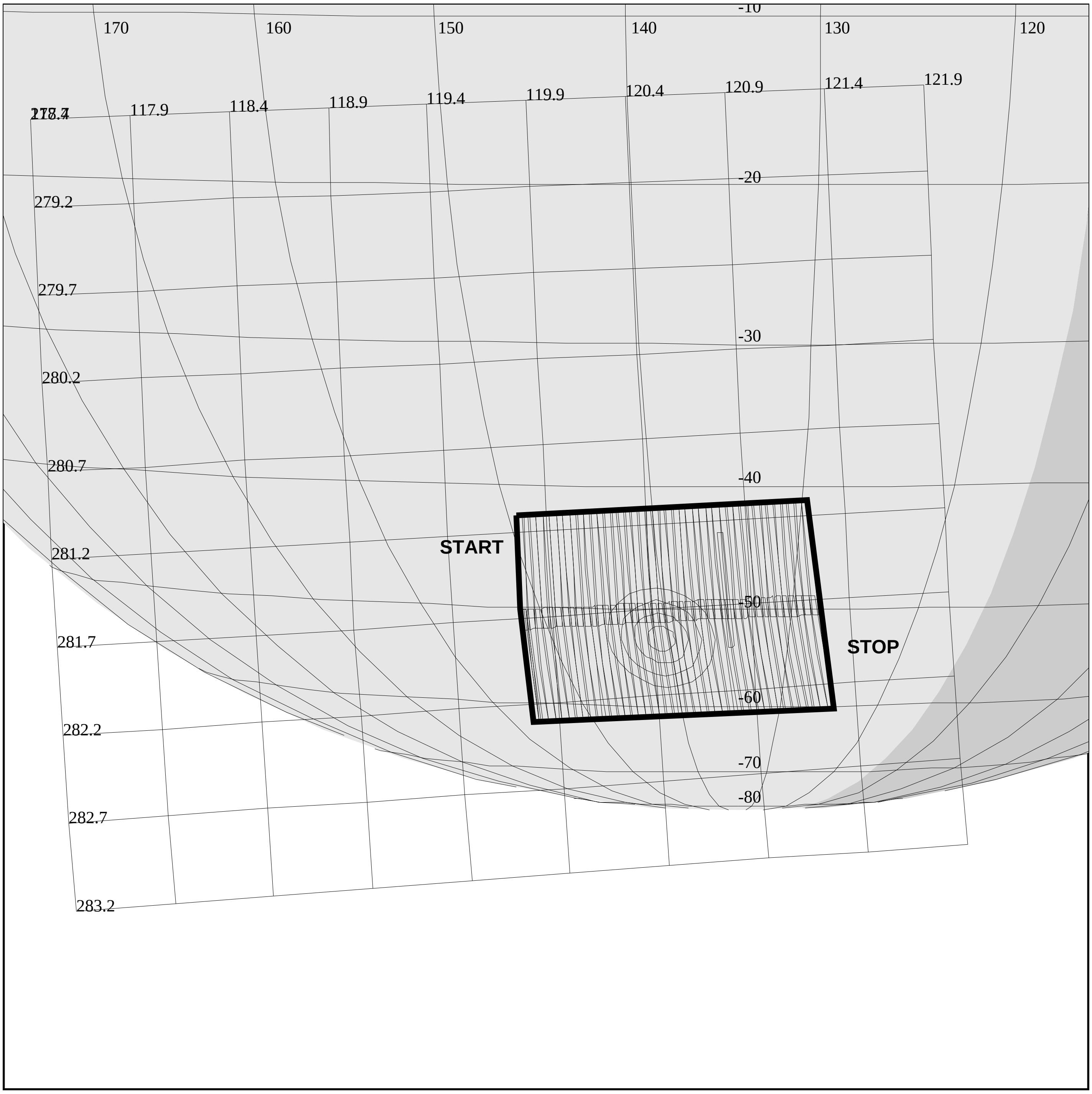
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS, instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form   05/09/97 16:17:56   rev 6/95



165EW:TT= 0 TMC= 1 C= -12.40 XC= -4.00 BS= 0/9580 TC= 1(-50.0 140.0)
A= 182 pD= 0 SR=17.450 RA50= 19.66 DEC50= 5.66 cone=119.78 clock=281.48
117EW:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/9580
1:#s= 2 Cs= 23.80 XCs= 0.00 Cr= -26.00 XCr= 8.00 sD= 600 rD= 60

G8JNPFTB7102

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNPFTB7102

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 556:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:G8JNPFTB7102 **DESCRIP:Jup Prt Ftr Trk B 71 deg pt.2**

Jupiter Partial Ftr Trk B 71 deg prt 2   ACTIVITY ID: G8JNPFTB7102-
START TIME: 97-128/21:03:23.400

Activity ID: Orbit G8 Target J Inst N OAPEL PFTB71 SeqNo 02 -

Title	Jupiter Partial Ftr Trk B 71 deg prt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/08/97	Week 19

Start	JEE+CDS 00000555:00:0	97-128/21:03:23.400	JEE+000/09:21:10.000
End	JEE+CDS 00000567:70:0	97-128/21:16:18.066	JEE+000/09:34:04.666
Duration	00000012:70:0	000/00:12:54.666	000/00:12:54.666

Top Label   G8JNPFTB7102-
Bottom Label

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

Observation Objective

The fifth of seven OAPELs constituting the partial feature track B of an area at temperate latitude near 50 degrees south. This is the second observation obtained on a rotation with phase angle approximately 71 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature B near the terminator, assuming feature coordinates 50 degrees south latitude and 140 degrees west longitude (System III).

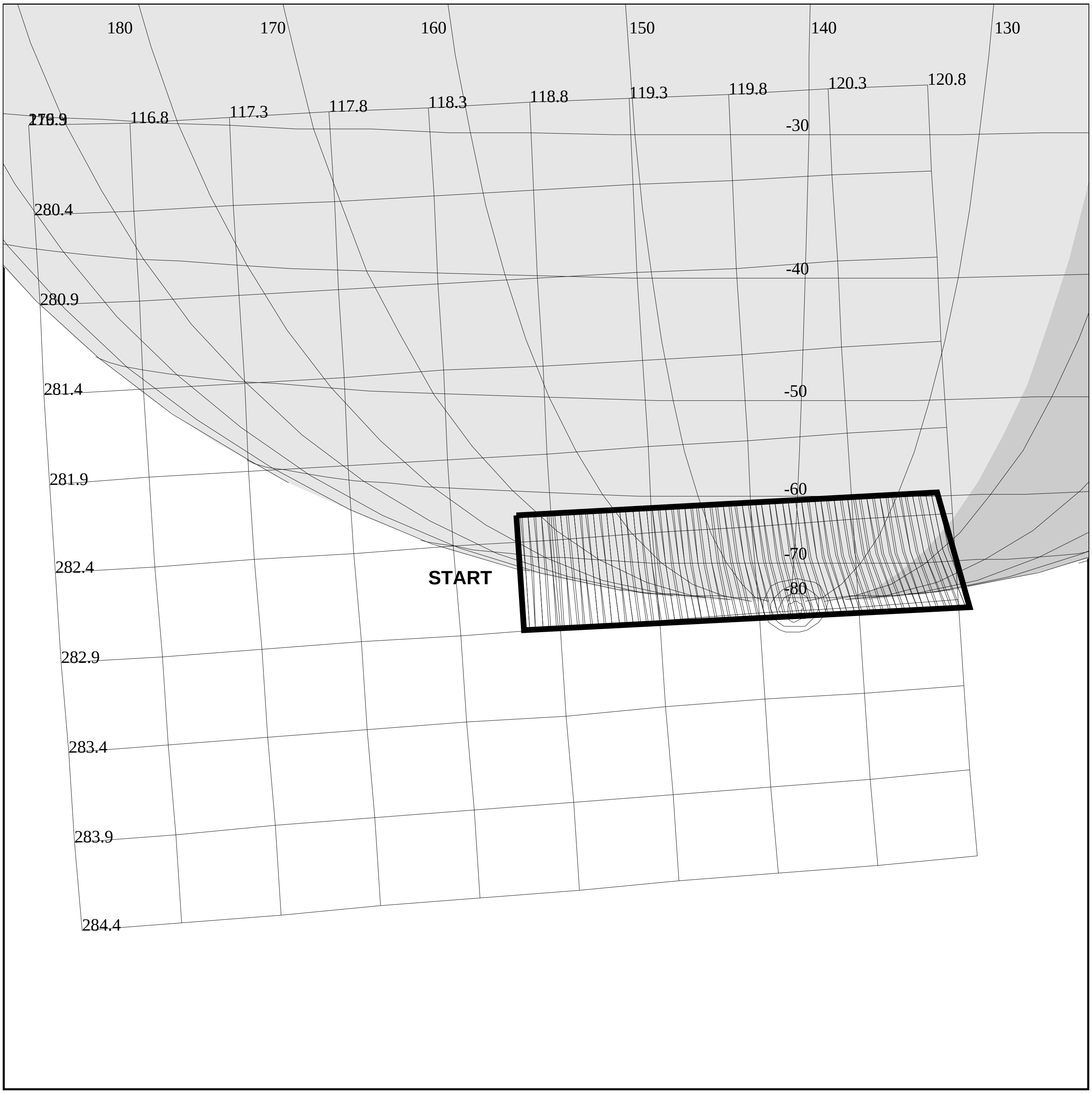
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on 50 degrees south latitude, 140 degrees west longitude. Spacecraft distance about 0.76 million KM, NIMS IFOV (NIMSEL) = 380 KM; 2 X 2 mosaic covers 15200 X 13680 KM including 20 percent overlap between tiers. About 420 seconds of scanning, including 20 seconds for a reposition slew accumulating 0.37728 MBTG in 19 colors, and using 0.01411 tracks. Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form   05/09/97 16:17:56   rev 6/95



165EX:TT= 0 TMC= 1 C= -24.00 XC= 0.00 BS= 0/1946 TC= 1(-68.0 140.0)
A= 182 pD= 0 SR=17.450 RA50= 21.11 DEC50= 5.18 cone=118.59 clock=282.55
117EX:#SB= 1 OR= 0.100 RR= 3.000 BM=F RC= 1 BS= 0/1946
1:#s= 1 Cs= 32.80 XCs= 0.00 Cr= -12.50 XCr= 8.00 sD= 900 rD= 24

G8JNFEAP7102

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEAP7102

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 +CDS 569:00:0

OBSERVATION:G8JNFEAP7102

THINNING:NIM 2

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

DESCRIP:Jup Ftr & Prt Trk 71 deg pt.2

Jupiter Ftr and Prtl Trk 71 deg part 2	ACTIVITY ID:	G8JNFEAP7102-	
	START TIME:	97-128/21:16:32.066	

Activity ID: Orbit G8 Target J Inst N OAPEL FEAP71 SeqNo 02 -

Title	Jupiter Ftr and Prtl Trk 71 deg part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 05/08/97 Week 19

Start	JEE+CDS 00000568:00:0	97-128/21:16:32.066	JEE+000/09:34:18.666
End	JEE+CDS 00000574:00:0	97-128/21:22:36.066	JEE+000/09:40:22.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8JNFEAP7102-
Bottom Label

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

Observation Objective

One of 16 OAPELS constituting the South Polar Boundary feature track. Also, the fourth of 6 OAPELS constituting the partial feature track covering additional territory to the east and west of the prime feature. For both features, this is the second observation at this phase angle. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with feature near the terminator.

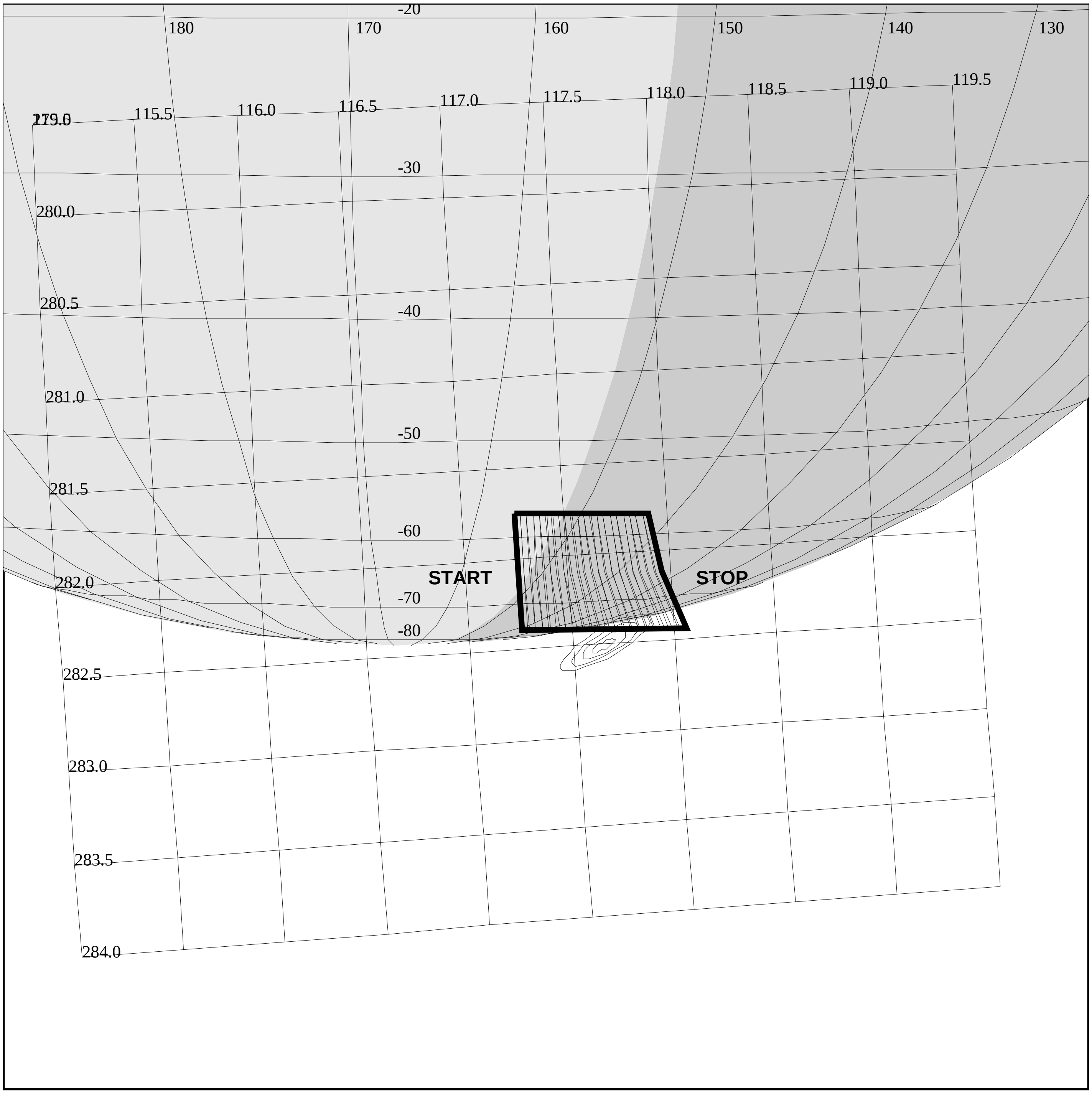
Data Returned

Design Detail

Short map, Nyquist-sampled observation of a 3 X 1 (30 X 10 mrad) scan of the Southern Polar Boundary centered at 140 degrees west longitude, 68 degrees south planetographer latitude.
Spacecraft distance about 0.76 million KM, NIMS IFOV (NIMSEL) = 380 KM; 3 X 1 mosaic covers 22800 X 7600 KM. About 300 seconds of scanning, accumulating 0.2695 MBTG in 19 colors, and using 0.01008 tracks.
Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form 05/09/97 16:17:56 rev 6/95



165EZ:TT= 0 TMC= 1 C= -6.00 XC= -2.00 BS= 6/0682 TC= 1(-68 140)
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117EZ:#SB= 1 OR= 0.020 RR= 2.500 BM=F RC= 1 BS= 6/0682
1:#s= 2 Cs= 7.15 XCs= 0.00 Cr= -14.00 XCr= 0.00 sD= 1080 rD= 360

G8JNFEA53M01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA53M01

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 +CDS 617:00:0

OBSERVATION:G8JNFEA53M01

THINNING:NIM 2

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

DESCRIP:Jup Camp. Feature 5 & 3 um Map

Jupiter Campaign Feature 5 and 3 um Map	ACTIVITY ID: G8JNFEA53M01- START TIME: 97-128/22:02:02.066

Activity ID: Orbit G8 Target J Inst N OAPEL FEA53M SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date 05/08/97	Week 19

Start	JEE+CDS 00000613:00:0	97-128/22:02:02.066	JEE+000/10:19:48.666
End	JEE+CDS 00000634:00:0	97-128/22:23:16.066	JEE+000/10:41:02.666
Duration	00000021:00:0	000/00:21:14.000	000/00:21:14.000

Top Label G8JNFEA53M01-
Bottom Label

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

Observation Objective

High spectral resolution 5-micron and 3-micron night-time maps of trace species within the South Polar campaign feature. The first scan is a 5-micron map, of complete spectral and spatial sampling over the 4.28 to 5.22 micron interval. The campaign feature, centered at 140 degrees west longitude (System III), 68 degrees south planetographic latitude, is observed near 25 degrees relative longitude during the phase angle approximately 71 degrees rotation. The feature is first scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B. The second scan is a 3-micron map using 80 wavelengths specified by wavelength table J3M80B, spanning the wavelength range 2.50 - 3.44 microns.

Data Returned

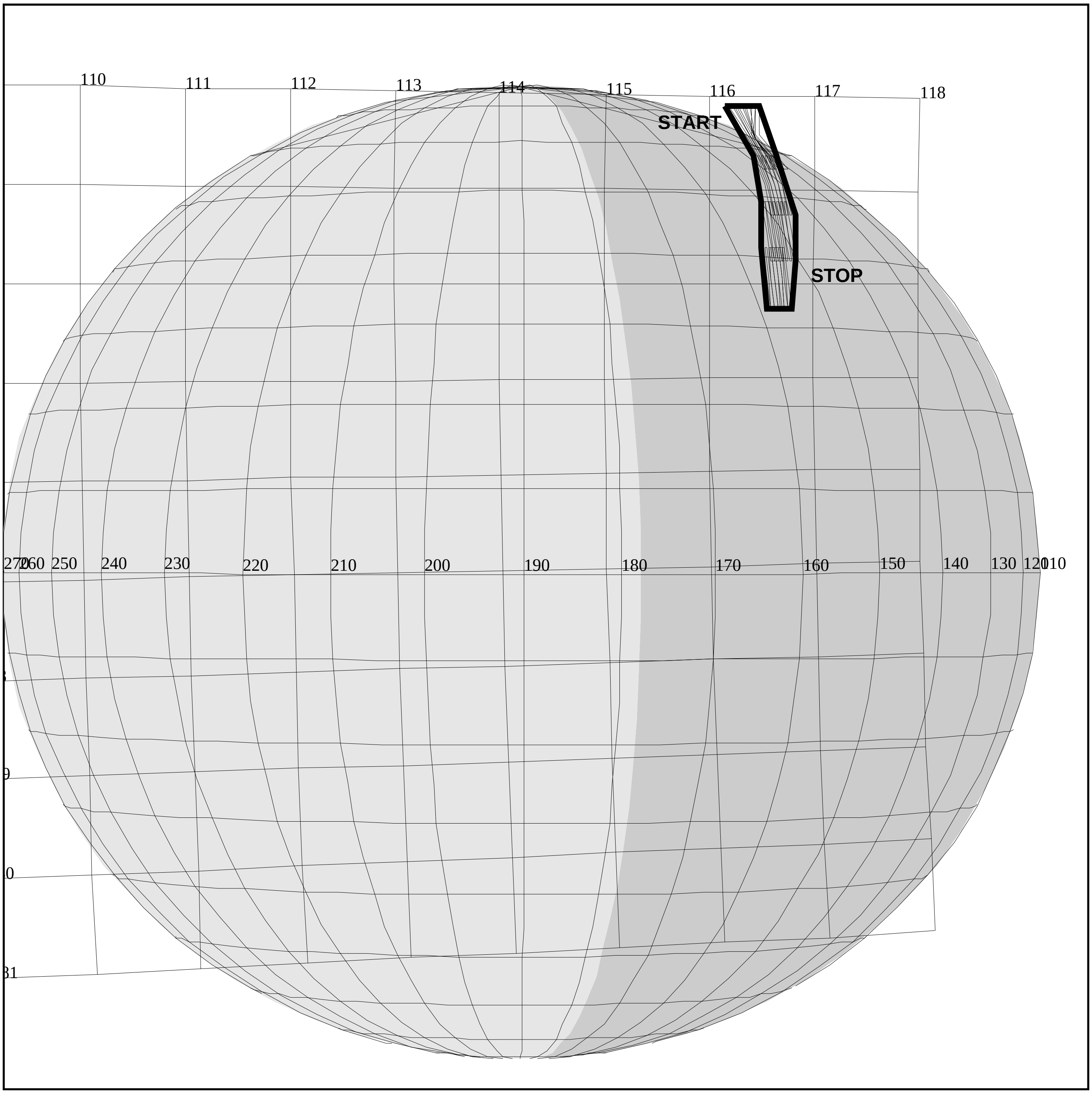
Design Detail

Two long map, Nyquist-sampled observations of 1*1 (10*10 mrad) area centered on the campaign feature. S/C distance about 0.79 million KM, map covers 7900 X 7900 KM. Each scan encompasses about 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks.
1 RIM reserved for targetting. 2 minutes reserved for reposition slew.
Total Oapel resources used: 0.72510 MBTG and 0.02418 tracks.
Wavelength table changed from J5M80B to J3M80B during the reposition slew between scans.
SCIREC #1 stops at end of first scan.
SCIREC #2 starts at beginning of subsequent scan.

Only first scan returned.
Second SCIREC was dropped.

Long Map (LM), Gain 4, Grating Start 0, LPU, G8J35157, G8J35157

Galileo Activity Plan Form 05/09/97 16:17:57 rev 6/95



165FA:TT=   0 TMC= 1 C=   35.00 XC= -74.00 BS= 0/4868 TC= 3
A= 182 pD= 6890 SR=17.450 RA50= 18.81 DEC50= 13.96 cone=117.39 clock=272.37
117FA:#SB= 1 OR= 0.030 RR= 2.500 BM=F RC= 1 BS= 0/4868
1:#s= 4 Cs=   3.30 XCs=   0.00 Cr=   -6.00 XCr=   8.00 sD=   338 rD=   26

G8JNTHRMNS02

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNTHRMNS02

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400   +CDS 640:00:0

OBSERVATION:G8JNTHRMNS02

THINNING:NIM   2

BODY PLOT TIME:CENTER-TIME D= 6890 S= 1.000

DESCRIP:Jup Thrml Nrth Sth Stripe pt.2

Jupiter Thermal North South Stripe prt 2 ACTIVITY ID: G8JNTHRMNS02-
START TIME: 97-128/22:24:16.733

Activity ID: Orbit G8 Target J Inst N OAPEL THRMNS SeqNo 02 -

Title	Jupiter Thermal North South Stripe prt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 05/08/97 Week 19

Start	JEE+CDS 00000635:00:0	97-128/22:24:16.733	JEE+000/10:42:03.333
End	JEE+CDS 00000649:00:0	97-128/22:38:26.066	JEE+000/10:56:12.666
Duration	00000014:00:0	000/00:14:09.333	000/00:14:09.333

Top Label G8JNTHRMNS02-
Bottom Label

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

Observation Objective

Jupiter North/South, pole to pole night-time stripe for pole to pole assessment of lower-troposphere properties such as phosphine abundance variation and 5-um variability of ammonia cloud opacity. Night time observation 20 degrees relative longitude from the central meridian at 75 degree phase angle near 11 Rj, using NIMS wavelength table J5M80B spanning 4.279 - 5.220 microns. Equatorial longitude approximately 170 degrees west. To save tape, recording delayed 1146 seconds from the start of scanning. Recorded latitude are then 5 degrees north to the south polar region (approximately 75 degrees south).

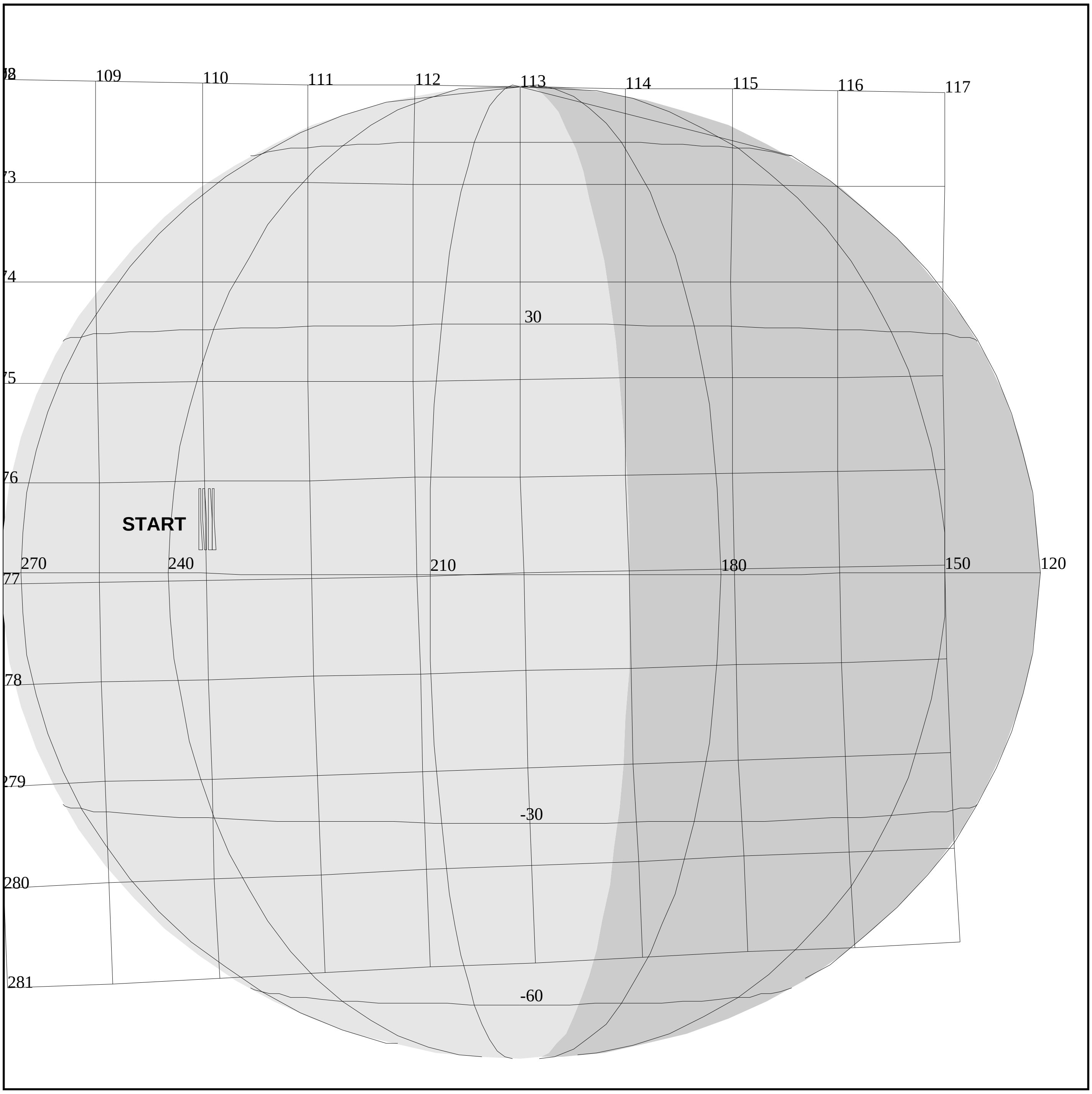
Data Returned

Design Detail

Long map, Nyquist sampled observation of pole-to-pole stripe.
About 19 tiers, each tier acquiring 13 spectra, spanning 3.25 mradians in the east-west direction covering 2.0 degrees of Jovian longitude, at 395 KM IFOV spatial resolution. Each tier lasts 130.0 seconds including 17.333 sec for repositioning to the next tier. Total observations time is 18*130 + 13*8.6667 = 2452.666 sec = 00:40:52.666 (more accruate Pointer designs indicate) 2418.00 seconds. To save 0.0385 tracks of tape, only the last 2418 - 1146 = 1272 seconds recorded.
This results in recording 0.042735 tracks to return 1.281 MBTG.
Record begins at JEE+CDS 655 end record at JEE+CDS 676.
One rim reserved for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, G8J35157, G8J35157

Galileo Activity Plan Form 05/09/97 16:17:57 rev 6/95



165FV:TT= 0 TMC= 1 C= -1.50 XC= 0.00 BS= 0/1784 TC= 1(6.5 235)
A= 504 pD= 182 SR=17.450 RA50= 27.34 DEC50= 13.47 cone=109.95 clock=276.38
117FV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1784
1:#s= 1 Cs= 1.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

G8JNRTHOTS01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNRTHOTS01

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 678:00:0 **BODY PLOT TIME:TARGET-TIME D= 182 S= 1.000**

OBSERVATION:G8JNRTHOTS01 **DESCRIP:NIMS_JUPITER_REAL-TIME_OBS**

NIMS Jupiter Real-Time Observation	ACTIVITY ID: G8JNRTHOTS01- START TIME: 97-128/23:04:43.400

Activity ID: Orbit G8 Target J Inst N OAPEL RTHOTS SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE+CDS 00000675:00:0	97-128/23:04:43.400	JEE+000/11:22:30.000
End	JEE+CDS 00000680:00:0	97-128/23:09:46.733	JEE+000/11:27:33.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label   G8JNRTHOTS01-
Bottom Label

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

Observation Objective

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

Data Returned

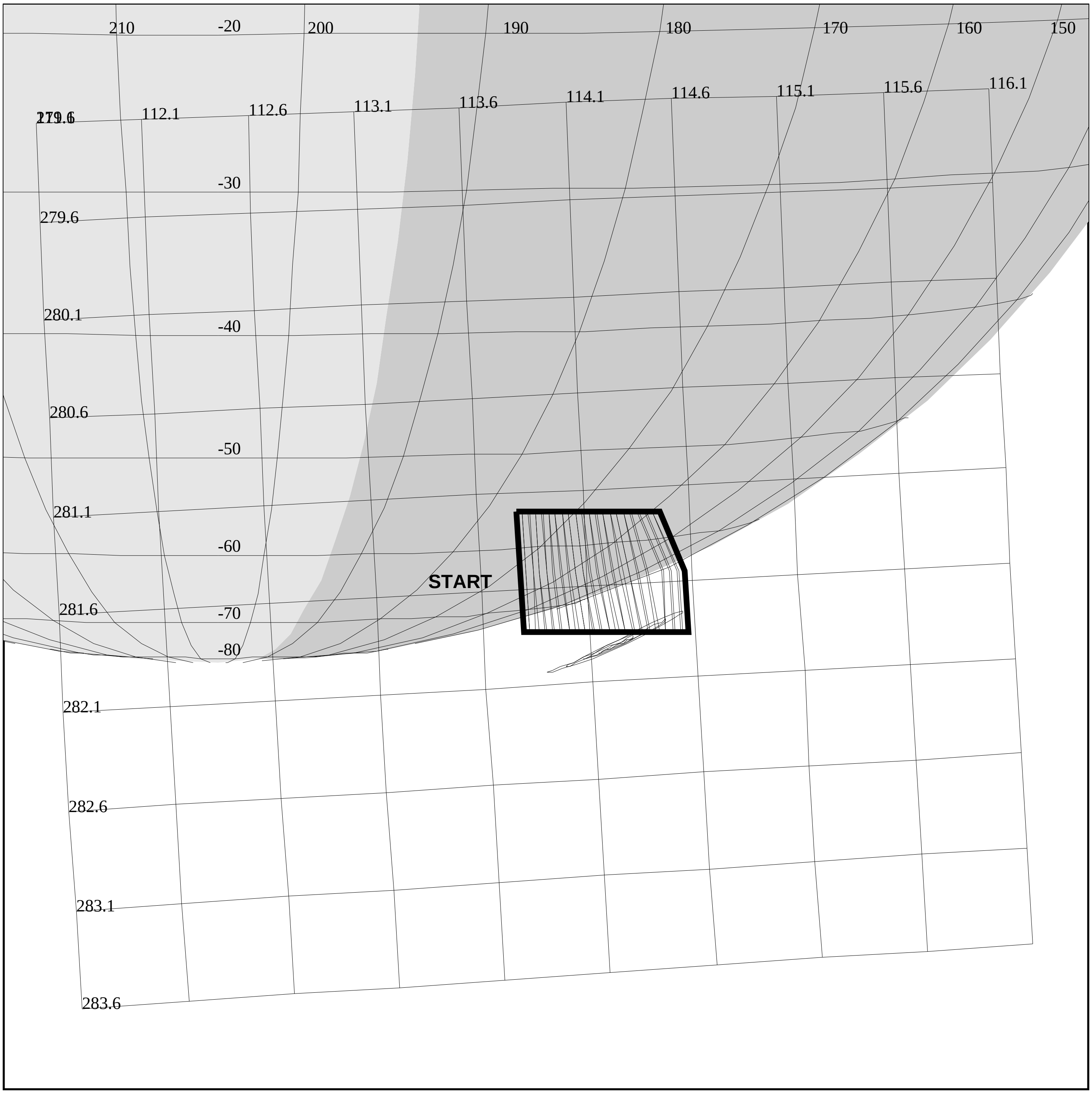
Design Detail

Long Map real-time 1-RIM spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 210 degrees West longitude,
                     6.5 degrees North latitude.
Acquired near the central meridian at approximately 80 degrees phase angle.
Spatial resolution: 380 km/pixel
CDS 02:70:0 used for targetting.

Gain State 4

Long Map (LM), Gain 4, Grating Start 0, R/T, RT408

Galileo Activity Plan Form   05/09/97 16:17:57   rev 6/95



165FB:TT= 0 TMC= 1 C= -6.00 XC= -2.00 BS= 0/3058 TC= 1(-68 140)
A= 728 pD= 0 SR=17.450 RA50= 25.34 DEC50= 7.62 cone=113.82 clock=281.56
117FB:#SB= 1 OR= 0.020 RR= 2.500 BM=F RC= 1 BS= 0/3058
1:#s= 1 Cs= 7.15 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1080 rD= 16

G8JNFEA5UM01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA5UM01

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 685:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:G8JNFEA5UM01 **DESCRIP:Jup Feature Trk 5 um Map 2**

Jupiter Feature Track 5 Micron Map 2 ACTIVITY ID: G8JNFEA5UM01-
START TIME: 97-128/23:10:20.066

Activity ID: Orbit G8 Target J Inst N OAPEL FEA5UM SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE+CDS 00000680:50:0	97-128/23:10:20.066	JEE+000/11:28:06.666
End	JEE+CDS 00000693:00:0	97-128/23:22:55.400	JEE+000/11:40:42.000
Duration	00000012:41:0	000/00:12:35.334	000/00:12:35.334

Top Label G8JNFEA5UM01-
Bottom Label

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

Observation Objective

High spectral resolution 5-micron night-time map of trace species within the South Polar Boundary campaign feature. This is the second 5-um map obtained during the 71 degree phase angle rotation, the other having been obtained during OAPEL G8JNFEA53M01-. The campaign feature, centered at 140 degrees west longitude (System III), 68 degrees south planetographic latitude, observed near 85 degrees emission angle during the phase angle approximately 71 degrees rotation.
The feature is scanned in the 80 wavelengths specified by NIMS wavelength table J5M80B: 4.28 - 5.22 microns.

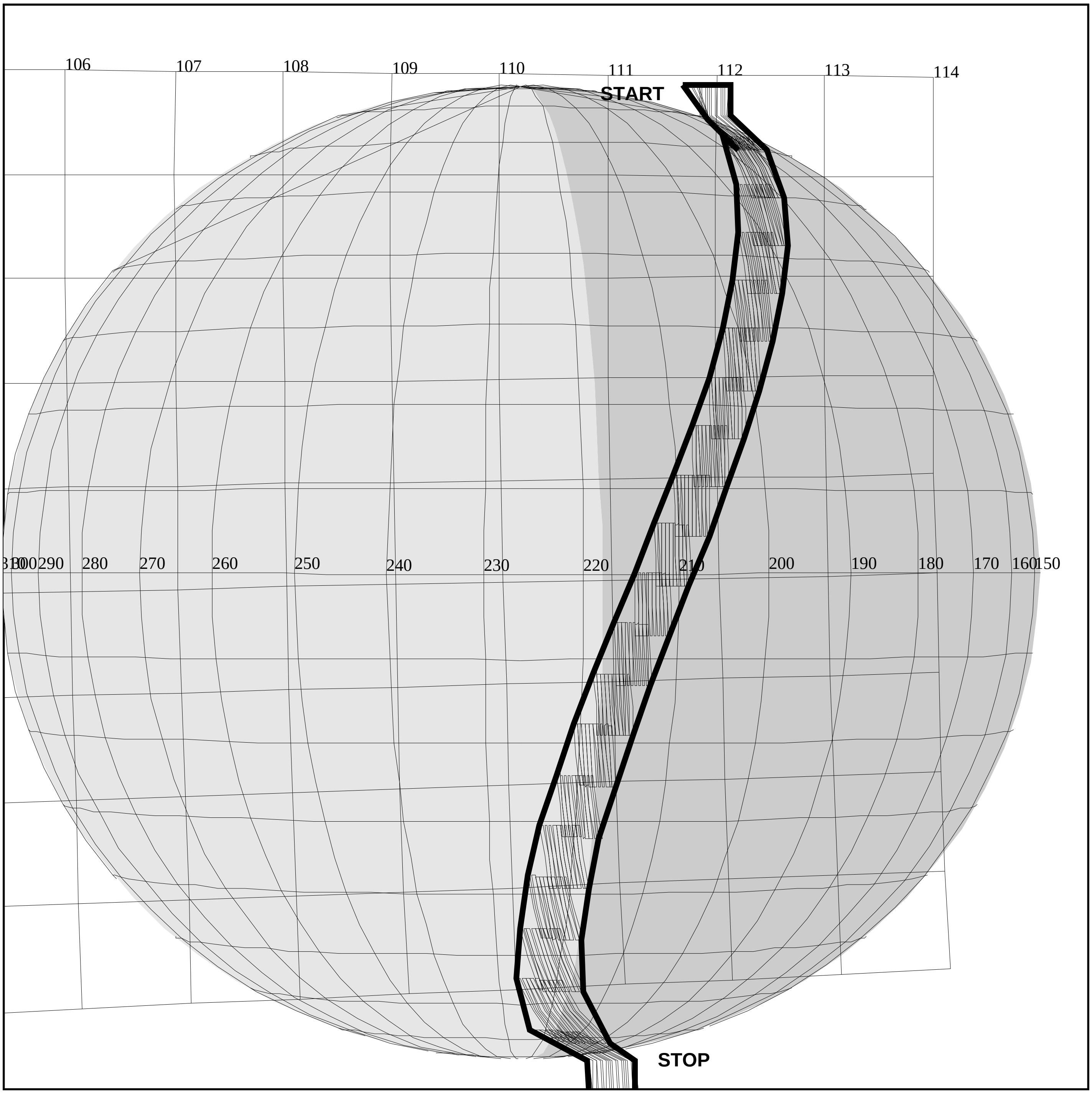
Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on the campaign feature. Spacecraft distance 0.83 million KM, map covers 8300 X 8300 KM at 415 INFOV resolution. About 6 minutes of scanning, accumulating 0.36255 MBTG and using 0.01209 tracks.
Four rims reserved for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, G8J35157, G8J35157

Galileo Activity Plan Form 05/09/97 16:17:57 rev 6/95



165FC:TT= 0 TMC= 1 C= 27.00 XC= -75.00 BS= 0/5060 TC= 3
A= 364 pD= 10374 SR=17.450 RA50= 22.54 DEC50= 15.63 cone=113.42 clock=272.33
117FC:#SB= 1 OR= 0.030 RR= 2.500 BM=F RC= 1 BS= 0/5060
1:#s= 20 Cs= 4.90 XCs= 0.00 Cr= -8.60 XCr= 8.00 sD= 494 rD= 26

G8JNTHRMNS03

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNTHRMNS03

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 +CDS 696:00:0

OBSERVATION:G8JNTHRMNS03

THINNING:NIM 2

BODY PLOT TIME:CENTER-TIME D=10374 S= 1.000

DESCRIP:Jup Thrml Nrth Sth Stripe pt.3

Jupiter Thermal North South Stripe prt 3 ACTIVITY ID: G8JNTHRMNS03-
START TIME: 97-128/23:23:56.066

Activity ID: Orbit G8 Target J Inst N OAPEL THRMNS SeqNo 03 -

Title	Jupiter Thermal North South Stripe prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/08/97	Week	19

Start	JEE+CDS 00000694:00:0	97-128/23:23:56.066	JEE+000/11:41:42.666
End	JEE+CDS 00000753:40:0	97-129/00:24:02.066	JEE+000/12:41:48.666
Duration	00000059:40:0	000/01:00:06.000	000/01:00:06.000

Top Label G8JNTHRMNS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	180	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Jupiter North/South, pole to pole night-time stripe for pole to pole assessment of lower-troposphere properties such as phosphine abundance variation and 5-um variability of ammonia cloud opacity. Night time observation 17 degrees relative longitude from the central meridian at 78 degree phase angle near 11 Rj, using NIMS wavelength table J5M80B spanning 4.279 - 5.220 microns.
Equatorial longitude approximately 210 degrees west.

Data Returned

Design Detail

Long map, Nyquist sampled observation of pole-to-pole stripe.
About 19 tiers, each tier acquiring 19 spectra, spanning 4.75 mradians in the east-west direction covering 3.0 degrees of Jovian longitude, at 395 KM IFOV spatial resolution. Each tier lasts 182 seconds including 17.333 sec for repositiong to the next tier. Total observation time is 18*182 + 19*8.6667 = 3440.667 sec = 00:57:20.67 resulting in recording 0.11559 tracks to return 3.4648 MBTG.
Two rims reserved for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, G8J35157, G8J35157

Galileo Activity Plan Form 05/09/97 16:17:57 rev 6/95

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Window for 3 Micrometer Hotspot Spec Map ACTIVITY ID:	G8JNWINDOW01-
START TIME:	97-129/00:24:36.066

Activity ID: Orbit G8 Target J Inst N OAPEL WINDOW SeqNo 01 -

Title	Window for 3 Micrometer Hotspot Spec Map	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID Calendar Date 05/09/97 Week 19

Start	JEE+CDS 00000754:00:0	97-129/00:24:36.066	JEE+000/12:42:22.666
End	JEE+CDS 00001119:00:0	97-129/06:33:39.400	JEE+000/18:51:26.000
Duration	00000365:00:0	000/06:09:03.334	000/06:09:03.334

Top Label G8JNWINDOW01-
Bottom Label

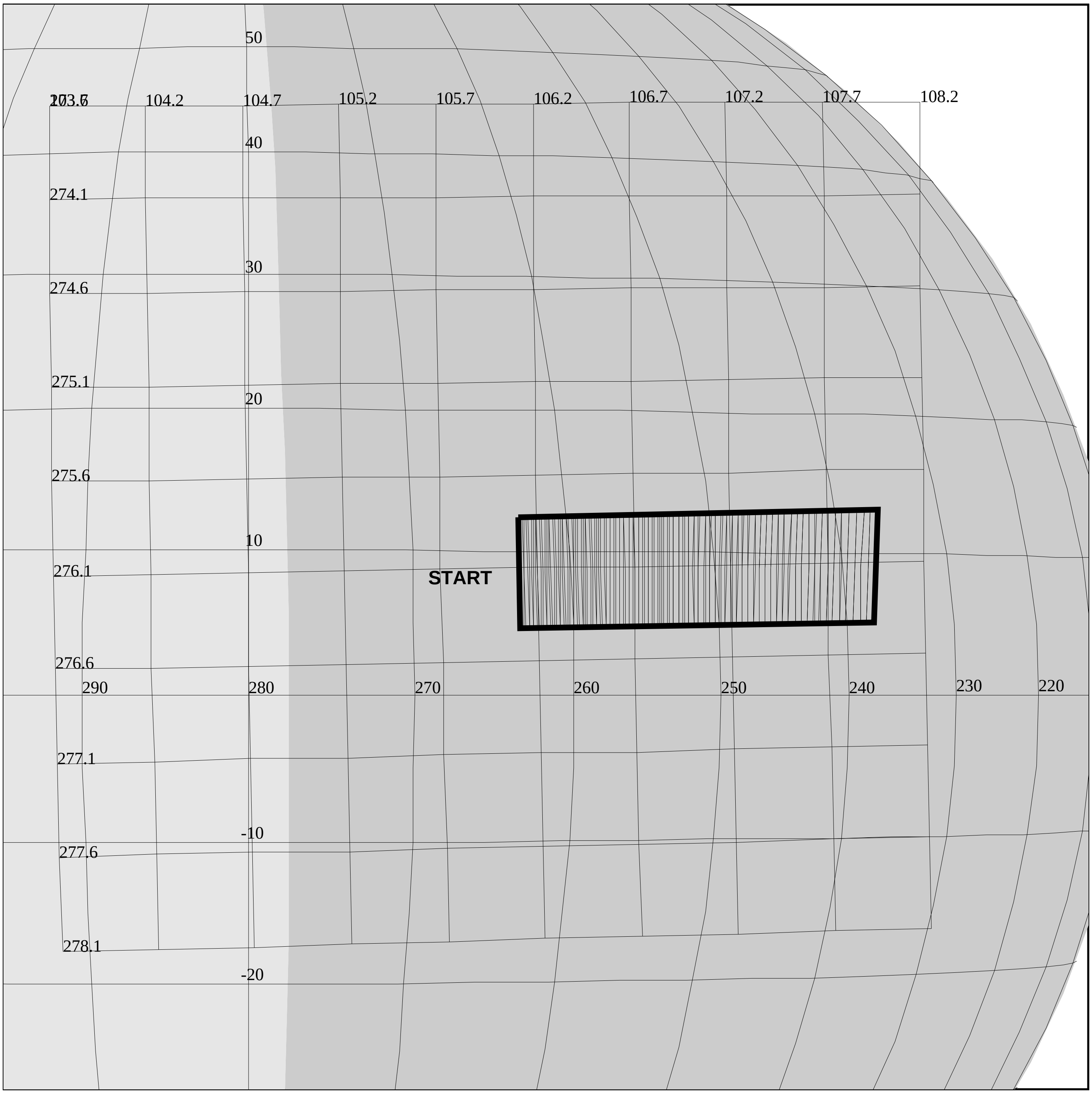
Plot Key	NIMS	Type	SCI		
CDS Bytes	180	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

Window in which OAPELs G8JNUM3MAP01 and G8JNTHRMNS04 can slide to achieve best target for Hotspot OAPEL G8JNUM3MA01.

Design Detail

Galileo Activity Plan Form 05/09/97 16:17:57 rev 6/95



165FE:TT= 0 TMC= 1 C= -28.00 XC= 0.00 BS= 0/7992 TC= 1(9.0 241.0)
A= 364 pD= 0 SR=17.450 RA50= 30.92 DEC50= 15.03 cone=106.14 clock=276.13
117FE:#SB= 1 OR= 0.020 RR= 5.000 BM=F RC= 1 BS= 0/7992
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G8JNUM3MAP01

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNUM3MAP01

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JHS 97-128/11:43:14.066 +CDS 821:00:0

OBSERVATION:G8JNUM3MAP01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.700

DESCRIP:3 Micron Hotspot Spectral Map

Three Micron Hotspot Spectral Map		ACTIVITY ID:	G8JNUM3MAP01-
		START TIME:	97-129/01:31:17.333

Activity ID: Orbit G8 Target J Inst N OAPEL UM3MAP SeqNo 01 -

Title	Three Micron Hotspot Spectral Map				Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/09/97	Week	19

Start	JHS+CDS 00000819:00:0	97-129/01:31:17.333	JHS+000/13:48:06.000
End	JHS+CDS 00000840:00:0	97-129/01:52:31.333	JHS+000/14:09:20.000
Duration	00000021:00:0	000/00:21:14.000	000/00:21:14.000

Top Label	G8JNUM3MAP01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	180	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral and spatial resolution nightside map of 3.3 X 1 area in hotspot region to assess water abundance utilizing three micron spectroscopy. Special NIMS wavelength table J3M40A, covering forty wavelengths in the three micron region used.

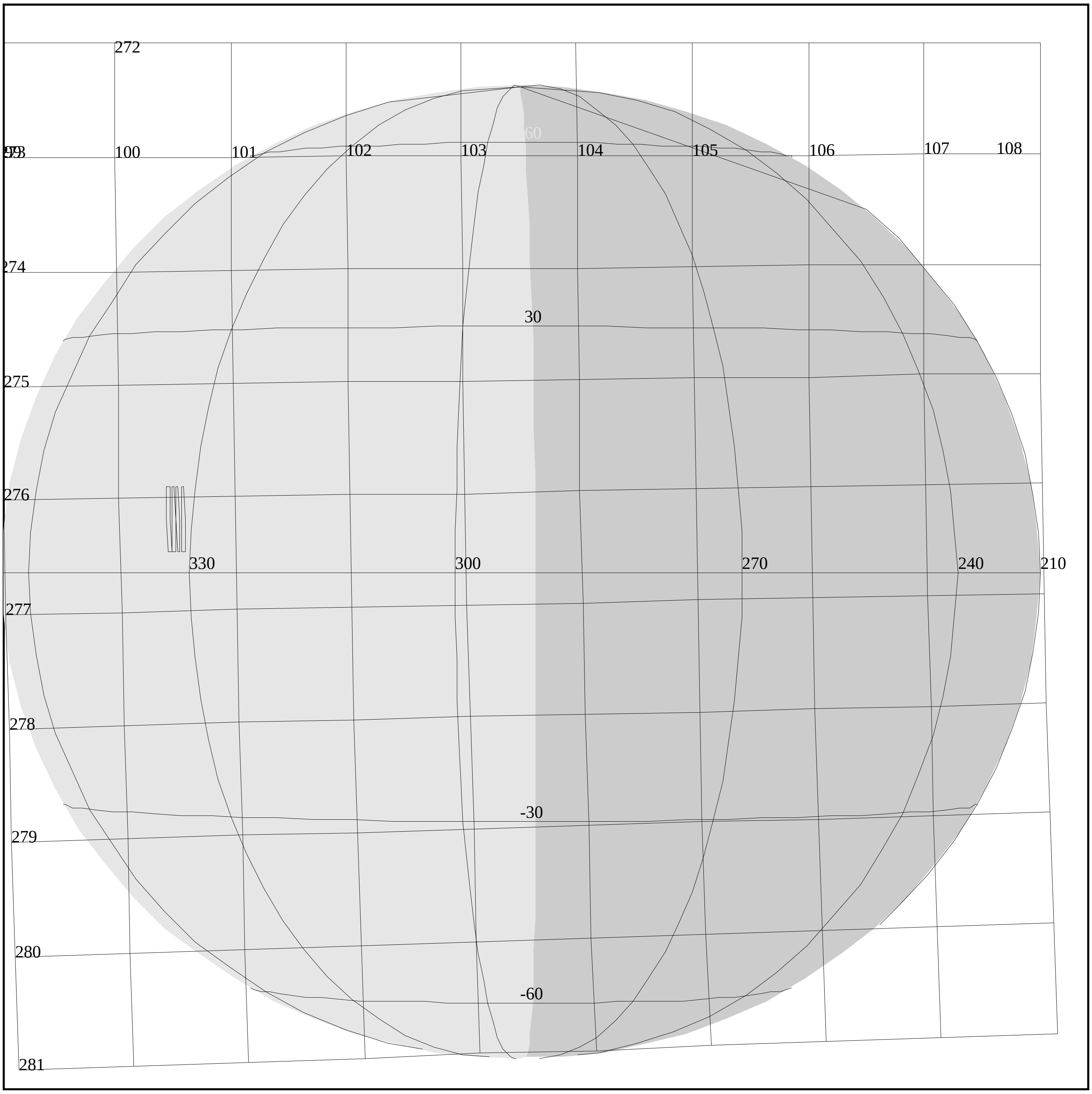
Data Returned

Design Detail

Long map, Nyquist-sampled observation of approximately 3.3 X 1 area (133 X 20 NIMSels sampled) in hotspot region centered at approximately twelve degrees relative longitude away from the central meridian on Jupiter’s nightside, at about 9 degrees north latitude. The area mapped intersects 5 micron THRMNS04 OAPEL area, to achieve spectral coverage at both 3 and 5 microns of this particularly hot region. Map accquired at approximately 395/KM resolution, covering 3.325 mradians in the East/West direction and 21 degrees of longitude. Total observaion time is 133*8.666 = 1152.667 sec or 19 RIMS resulting in 0.03872 tracks recorded to return 0.6288 MBTG. Two RIMS reserved for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, J3M253A, J3M40A

Galileo Activity Plan Form   05/09/97 16:17:57   rev 6/95



165FU:TT= 0 TMC= 1 C= -1.50 XC= 0.00 BS= 0/2178 TC= 1(6.5 332)
A= 504 pD= 182 SR=17.450 RA50= 36.56 DEC50= 16.89 cone=100.41 clock=276.19
117FU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2178
1:#s= 1 Cs= 1.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

G8JNRTHOTS02

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNRTHOTS02

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JHS 97-128/11:43:14.066 +CDS 844:00:0

OBSERVATION:G8JNRTHOTS02

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 182 S= 1.000

DESCRIP:NIMS_JUPITER_REAL-TIME_OBS

NIMS Jupiter Real-Time Observation	ACTIVITY ID: G8JNRTHOTS02- START TIME: 97-129/01:53:31.999

Activity ID: Orbit G8 Target J Inst N OAPEL RTHOTS SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	05/09/97	Week	19

Start	JHS+CDS 00000841:00:0	97-129/01:53:31.999	JHS+000/14:10:20.666
End	JHS+CDS 00000846:00:0	97-129/01:58:35.333	JHS+000/14:15:24.000
Duration	00000005:00:0	000/00:05:03.334	000/00:05:03.334

Top Label	G8JNRTHOTS02-
Bottom Label	

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

Observation Objective

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

Data Returned

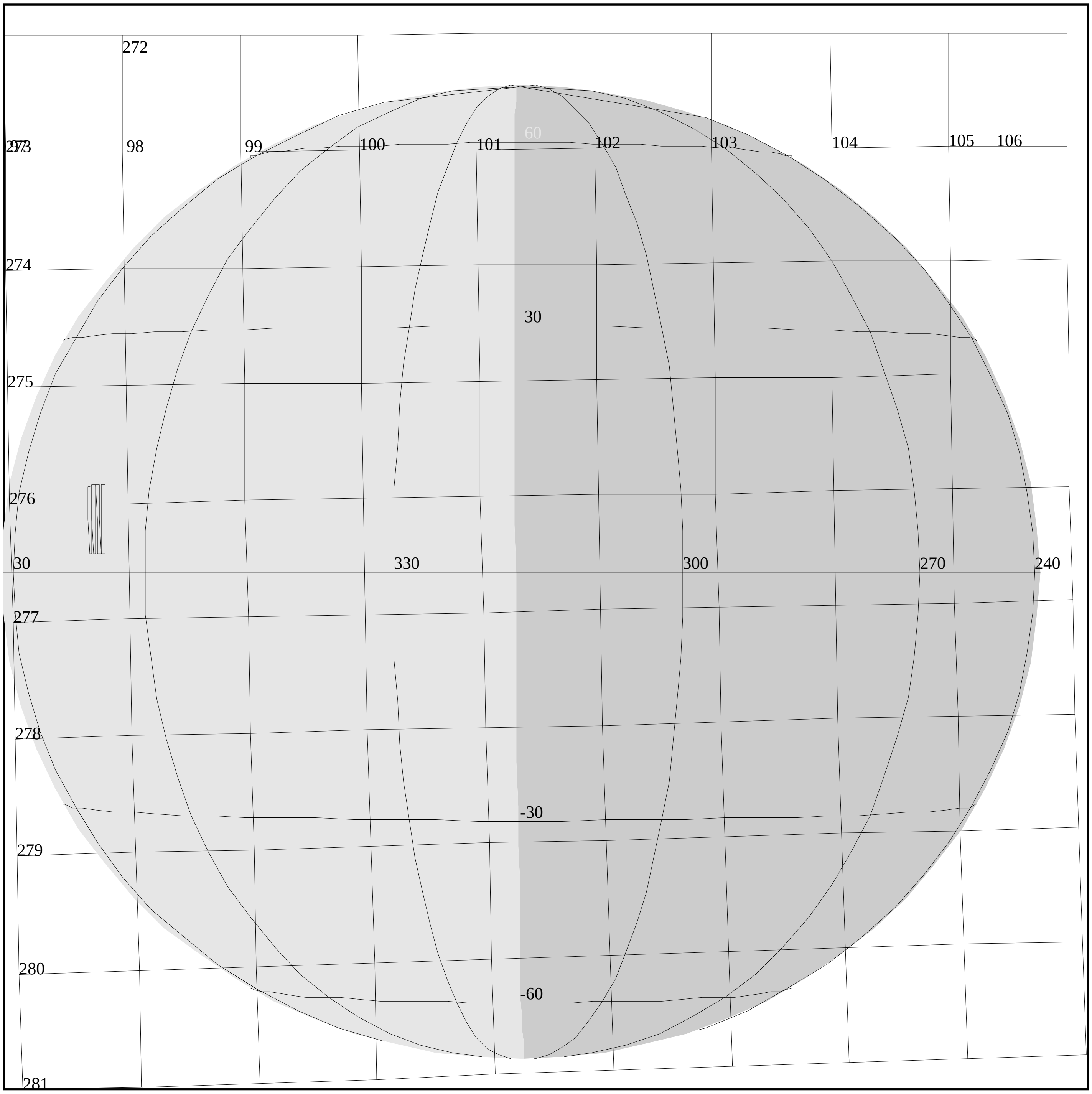
Design Detail

Long Map real-time 1-RIM spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 303 degrees West longitude,
                     6.5 degrees North latitude.
Acquired near the central meridian at approximately 89 degrees phase angle. Spatial resolution: 420 km/pixel.
CDS 02:70:0 used for targetting.

Gain State 4

Long Map (LM), Gain 4, Grating Start 0, R/T, RT408

Galileo Activity Plan Form   05/09/97 16:17:57   rev 6/95



165FY:TT= 0 TMC= 1 C= -1.50 XC= 0.00 BS= 0/9822 TC= 1(6.5 8)
A= 182 pD= 182 SR=17.450 RA50= 39.28 DEC50= 17.79 cone= 97.66 clock=276.14
117FY:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9822
1:#s= 1 Cs= 1.75 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

G8JNRTHOTS03

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNRTHOTS03

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

THINNING:NIM 2

START:JHS 97-128/11:43:14.066 +CDS 886:00:0

BODY PLOT TIME:TARGET-TIME D= 182 S= 1.000

OBSERVATION:G8JNRTHOTS03

DESCRIP:NIMS_JUPITER_REAL-TIME_OBS

NIMS Jupiter Real-Time		ACTIVITY ID:	G8JNRTHOTS03-
		START TIME:	97-129/02:32:57.999

Activity ID: Orbit G8 Target J Inst N OAPEL RTHOTS SeqNo 03 -

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

Time System CDS Load ID Calendar Date 05/09/97 Week 19

Start	JHS+CDS 00000880:00:0	97-129/02:32:57.999	JHS+000/14:49:46.666
End	JHS+CDS 00000891:00:0	97-129/02:44:05.333	JHS+000/15:00:54.000
Duration	00000011:00:0	000/00:11:07.334	000/00:11:07.334

Top Label G8JNRTHOTS03-
Bottom Label

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

Observation Objective

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

Data Returned

Design Detail

Long Map real-time 1-RIM spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 345 degrees West longitude,
6.5 degrees North latitude.
Acquired near the central meridian at approximately 93 degrees phase angle.
Spatial resolution: 435 km/pixel.
CDS 02:70:0 used for targetting.

Long Map (LM), Gain 4, Grating Start 0, R/T, RT408

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NIMS Real-Time Software Reload   ACTIVITY ID: G8NNNIMSLD08-
START TIME: 97-129/06:23:32.733

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 08 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/09/97	Week	19

Start	JEE+CDS 00001109:00:0	97-129/06:23:32.733	JEE+000/18:41:19.333
End	JEE+CDS 00001119:00:0	97-129/06:33:39.400	JEE+000/18:51:26.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G8NNNIMSLD09-
Bottom Label

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

Observation Objective

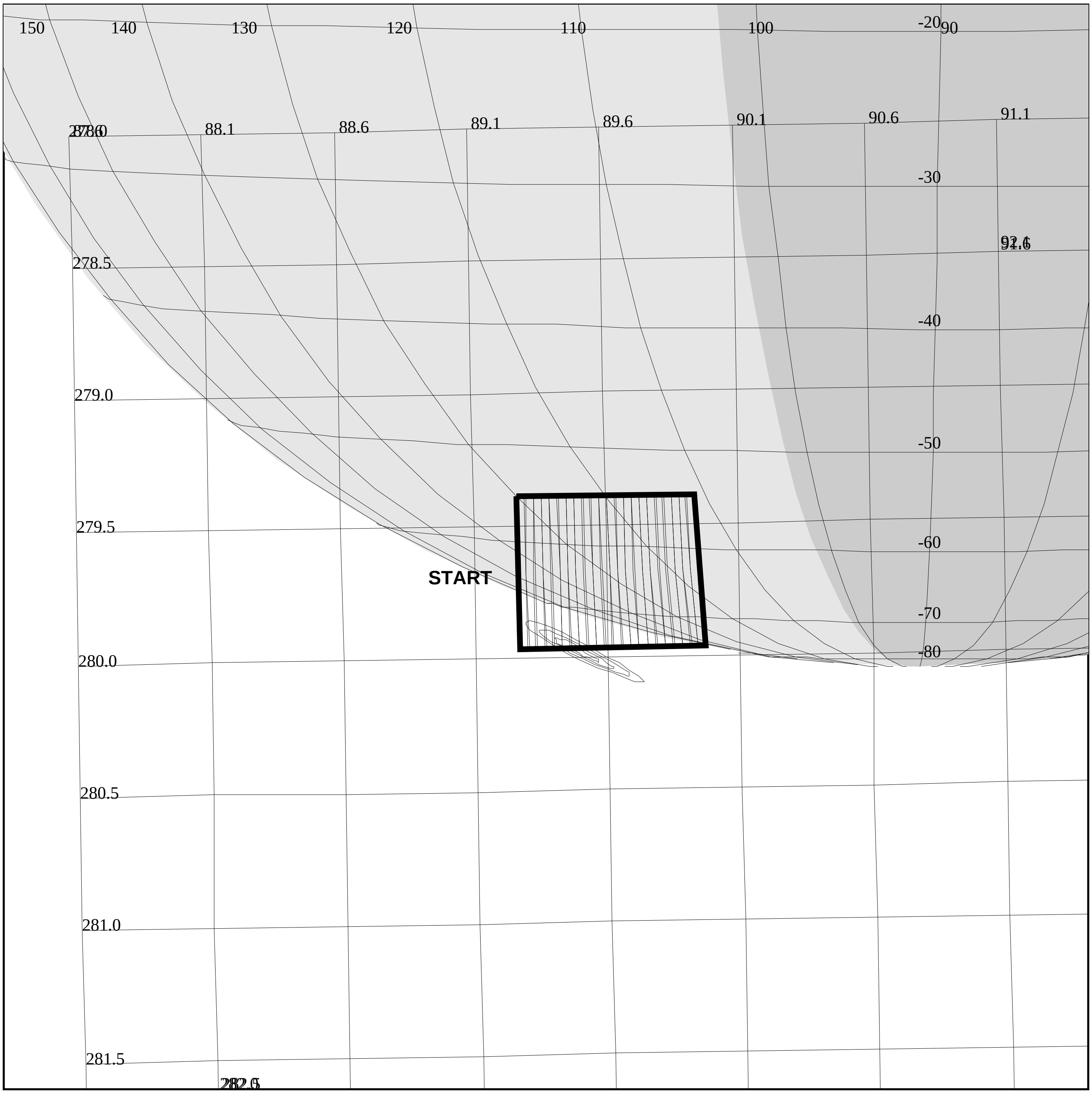
Reload NIMS software to prevent loss of science observations.
There loads are placed strategically to protect high priority science.

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

Design Detail

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

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



165FF:TT= 0 TMC= 1 C= -5.40 XC= -2.00 BS= 0/2956 TC= 1(-68.0 140.0)
A= 364 pD= 0 SR=17.450 RA50= 48.78 DEC50= 16.77 cone= 89.24 clock=279.67
117FF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2956
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA10401

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA10401

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 1124:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:G8JNFEA10401 **DESCRIP:Jup Ftr Trk 104 deg phase pt.1**

Jupiter Feature Track 104 deg phase pt 1	ACTIVITY ID: G8JNFEA10401-
	START TIME: 97-129/06:34:40.066

Activity ID: Orbit G8 Target J Inst N OAPEL FEA104 SeqNo 01 -

Title	Jupiter Feature Track 104 deg phase pt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/09/97	Week	19

Start	JEE+CDS 00001120:00:0	97-129/06:34:40.066	JEE+000/18:52:26.666
End	JEE+CDS 00001126:00:0	97-129/06:40:44.066	JEE+000/18:58:30.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8JNFEA10401-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the first of two observations obtained on a rotation with phase angle approximately 104 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with South Polar Boundary feature near minimum airmass, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 1.03 million KM, NIMS IFOV (NIMSEL) = 515 KM; 1 X 1 mosaic covers 10300 X 10300 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks. Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form 05/09/97 16:17:58 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: G8NNNIMSLD09-
START TIME: 97-129/07:06:00.733

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 09 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 05/09/97	Week 19

Start	JEE+CDS 00001151:00:0	97-129/07:06:00.733	JEE+000/19:23:47.333
End	JEE+CDS 00001161:00:0	97-129/07:16:07.400	JEE+000/19:33:54.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label G8NNNIMSLD09-
Bottom Label

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

Observation Objective

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

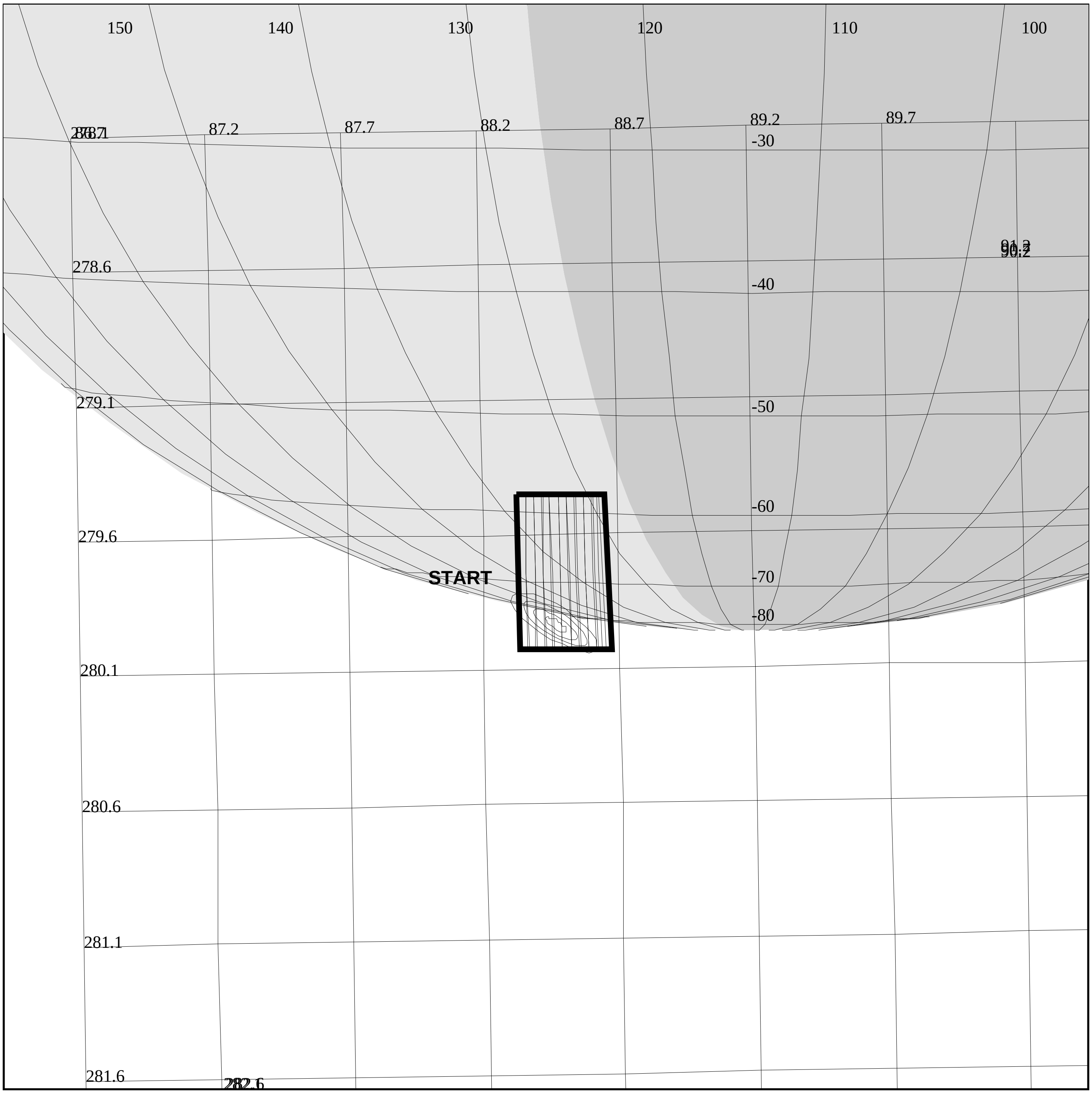
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS, instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form 05/09/97 16:17:58 rev 6/95



165FH:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/0236 TC= 1(-68.0 140.0)
A= 364 pD= 0 SR=17.450 RA50= 49.70 DEC50= 16.96 cone= 88.34 clock=279.71
117FH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0236
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 146 rD= 2

G8JNFEA10402

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA10402

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 +CDS 1164:00:0

OBSERVATION:G8JNFEA10402

THINNING:NIM 2

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

DESCRIP:Jup Ftr Trk 104 deg phase pt.2

Jupiter Feature Track 104 deg phase pt 2 ACTIVITY ID: G8JNFEA10402-
START TIME: 97-129/07:17:08.066

Activity ID: Orbit G8 Target J Inst N OAPEL FEA104 SeqNo 02 -

Title	Jupiter Feature Track 104 deg phase pt 2		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/09/97	Week 19

Start	JEE+CDS 00001162:00:0	97-129/07:17:08.066	JEE+000/19:34:54.666
End	JEE+CDS 00001166:00:0	97-129/07:21:10.733	JEE+000/19:38:57.333
Duration	00000004:00:0	000/00:04:02.667	000/00:04:02.667

Top Label G8JNFEA10402-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the second of two observations obtained on a rotation with phase angle approximately 104 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with South Polar Boundary feature near the terminator, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 1.04 million KM, NIMS IFOV (NIMSEL) = 520 KM; 1 X 1 mosaic covers 10400 X 10400 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

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NIMS Real-Time Software Reload   ACTIVITY ID: G8NNNIMSLD10-
START TIME: 97-129/16:34:15.400

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 10 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. Baines	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/09/97	Week	19

Start	JEE+CDS 00001713:00:0	97-129/16:34:15.400	JEE+001/04:52:02.000
End	JEE+CDS 00001723:00:0	97-129/16:44:22.066	JEE+001/05:02:08.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label   G8NNNIMSLD10-
Bottom Label

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

Observation Objective

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

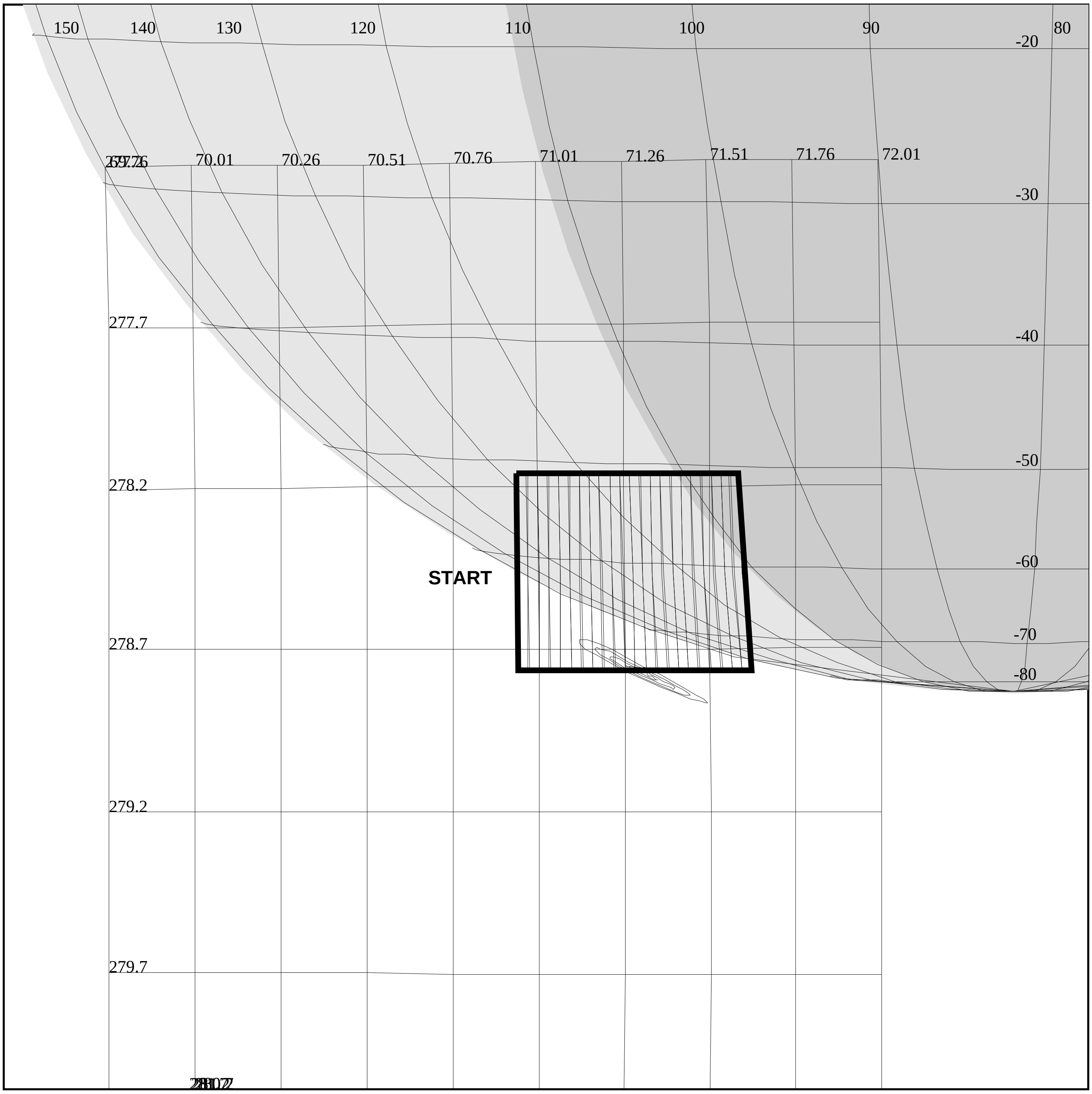
Memory load from CDS to NIMS and restart.
Diagnostic checksum, processor halt, memory reload from CDS,
instrument restart, and operational mode set.

Design Detail

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

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

Galileo Activity Plan Form   05/09/97 16:17:58   rev 6/95



165FI:TT= 0 TMC= 1 C= -7.20 XC= -2.50 BS= 0/2884 TC= 1(-68.0 140.0)
A= 728 pD= 0 SR=17.450 RA50= 67.50 DEC50= 21.63 cone= 70.96 clock=278.50
117FI:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2884
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA12201

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA12201

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 1728:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:G8JNFEA12201 **DESCRIP:Jup Ftr Trk 122 deg phase pt.1**

Jupiter Feature Track 122 deg phs pt 1	ACTIVITY ID: G8JNFEA12201- START TIME: 97-129/16:45:22.733

Activity ID: Orbit G8 Target J Inst N OAPEL FEA122 SeqNo 01 -

Title	Jupiter Feature Track 122 deg phs pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 05/09/97 Week 19

Start	JEE+CDS 00001724:00:0	97-129/16:45:22.733	JEE+001/05:03:09.333
End	JEE+CDS 00001730:00:0	97-129/16:51:26.733	JEE+001/05:09:13.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8JNFEA12201-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the first of two observations obtained on a rotation with phase angle approximately 122 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with South Polar Boundary feature near minimum airmass, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

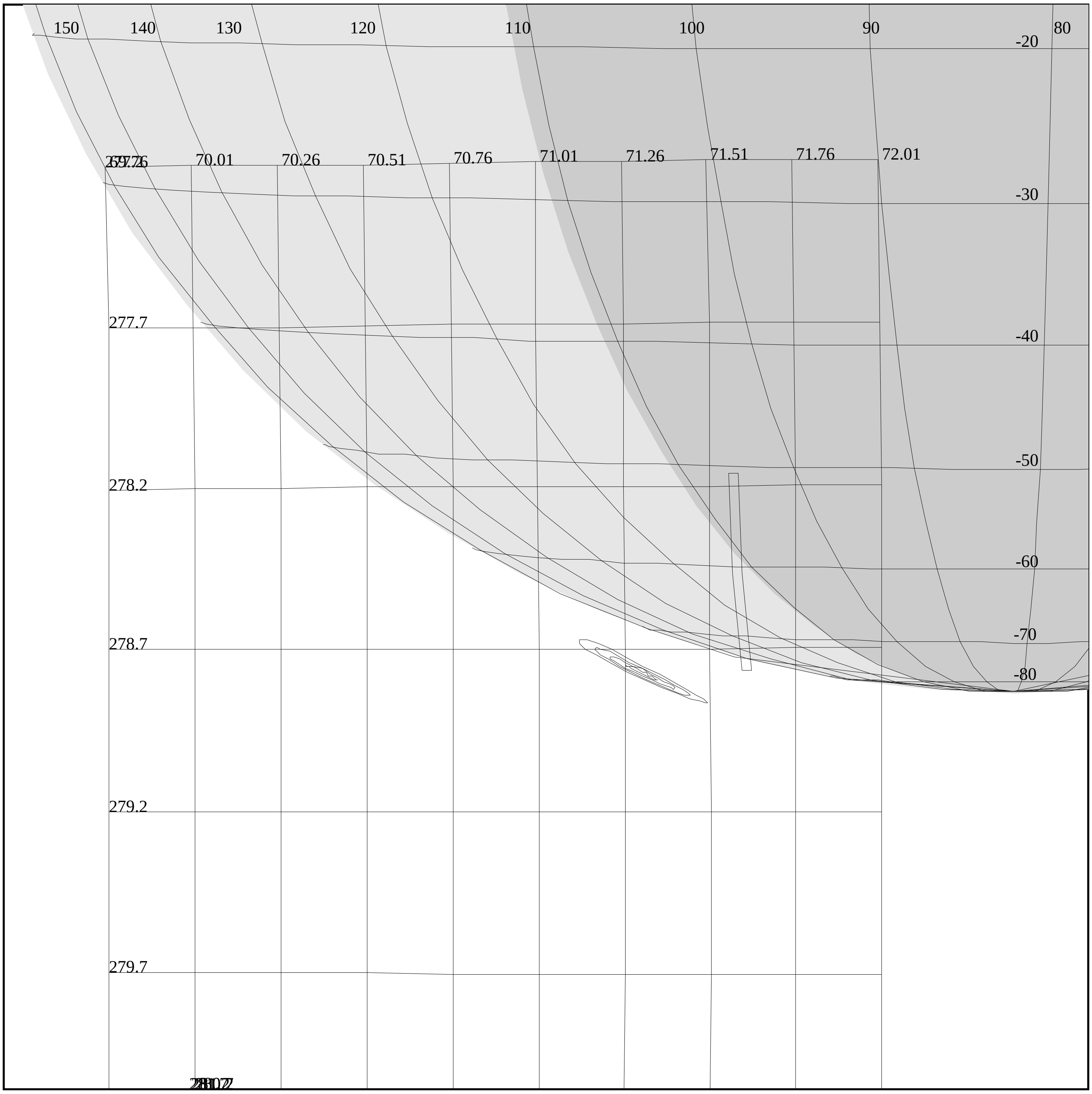
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 1.34 million KM, NIMS IFOV (NIMSEL) = 670 KM; 1 X 1 mosaic covers 13400 X 13400 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

Galileo Activity Plan Form 05/09/97 16:17:58 rev 6/95



165FI:TT= 0 TMC= 1 C= -7.20 XC= -2.50 BS= 0/2884 TC= 1(-68.0 140.0)
A= 728 pD= 0 SR=17.450 RA50= 67.50 DEC50= 21.63 cone= 70.96 clock=278.50
117FI:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2884
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8NNHEALTH05

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA12201

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 1728:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:G8JNFEA12201 **DESCRIP:Jup Ftr Trk 122 deg phase pt.1**

NIMS Health Observation

ACTIVITY ID: G8NNHEALTH05-
START TIME: 97-129/16:52:27.400

Activity ID: Orbit G8 Target N Inst N OAPEL HEALTH SeqNo 05 -

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

Time System	CDS	Load ID	Calendar Date	05/09/97 Week 19

Start	JEE+CDS 00001731:00:0	97-129/16:52:27.400	JEE+001/05:10:14.000
End	JEE+CDS 00001736:00:0	97-129/16:57:30.733	JEE+001/05:15:17.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G8NNHEALTH05-
Bottom Label

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

Observation Objective

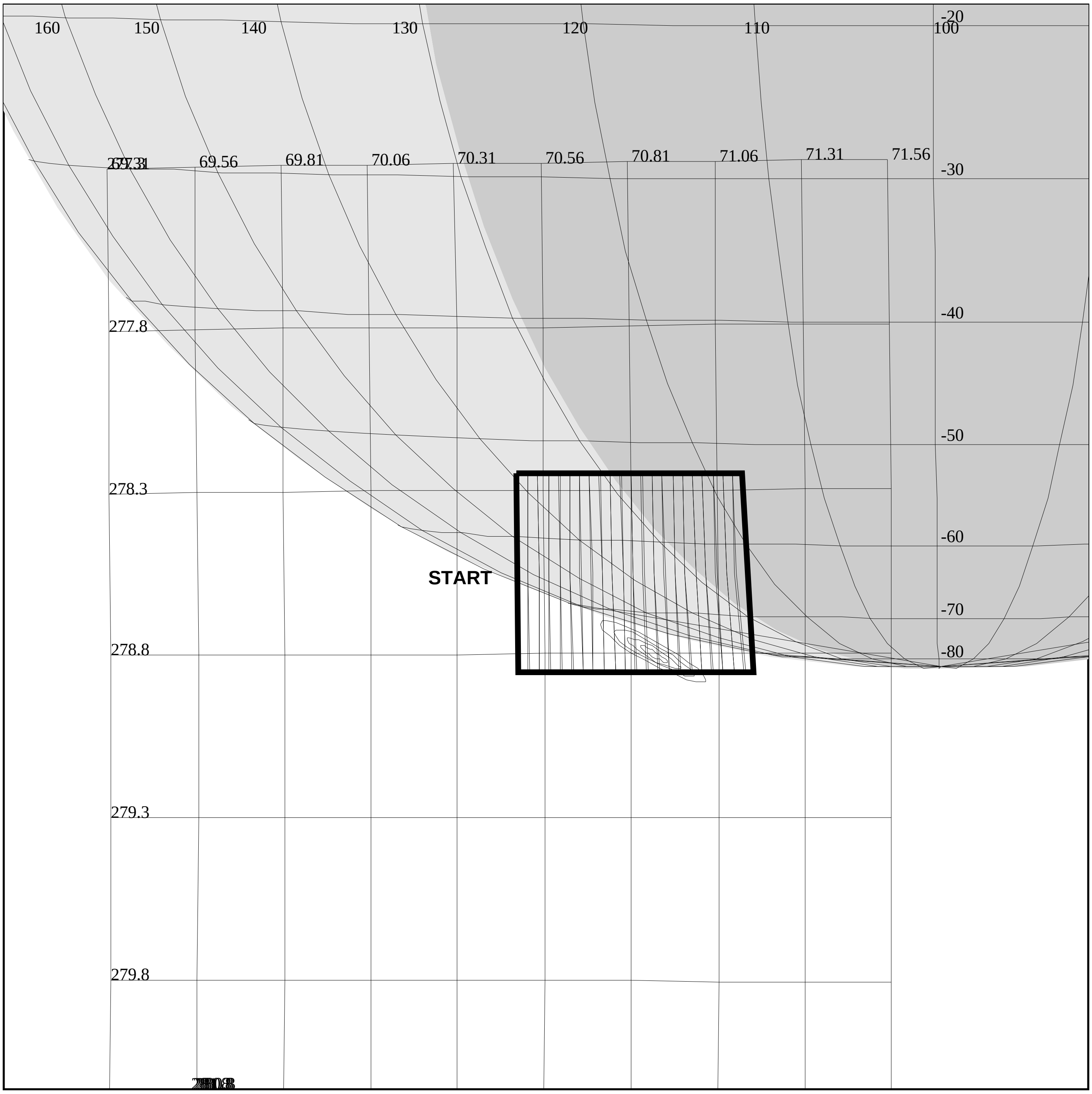
Required to verify instrument operation.
These observations provide a 3 detector view of the instrument.
The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target.
The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

Long Map (LM), Gain 2, Grating Start 0, RT, G8RECVY3

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



165FJ:TT= 0 TMC= 1 C= -7.50 XC= -1.50 BS= 0/8344 TC= 1(-68.0 140.0)
A= 728 pD= 0 SR=17.450 RA50= 68.00 DEC50= 21.67 cone= 70.49 clock=278.54
117FJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8344
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA12202

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA12202

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 1758:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:G8JNFEA12202 **DESCRIP:Jup Ftr Trk 122 deg phase pt.2**

Jupiter Feature Track 122 deg phs pt 2   ACTIVITY ID: G8JNFEA12202-
START TIME: 97-129/17:15:42.733

Activity ID: Orbit G8 Target J Inst N OAPEL FEA122 SeqNo 02 -

Title	Jupiter Feature Track 122 deg phs pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 05/09/97 Week 19

Start	JEE+CDS 00001754:00:0	97-129/17:15:42.733	JEE+001/05:33:29.333
End	JEE+CDS 00001760:00:0	97-129/17:21:46.733	JEE+001/05:39:33.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8JNFEA12202-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the second of two observations obtained on a rotation with phase angle approximately 122 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with South Polar Boundary feature near the terminator, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 1.34 million KM, NIMS IFOV (NIMSEL) = 670 KM; 1 X 1 mosaic covers 13400 X 13400 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

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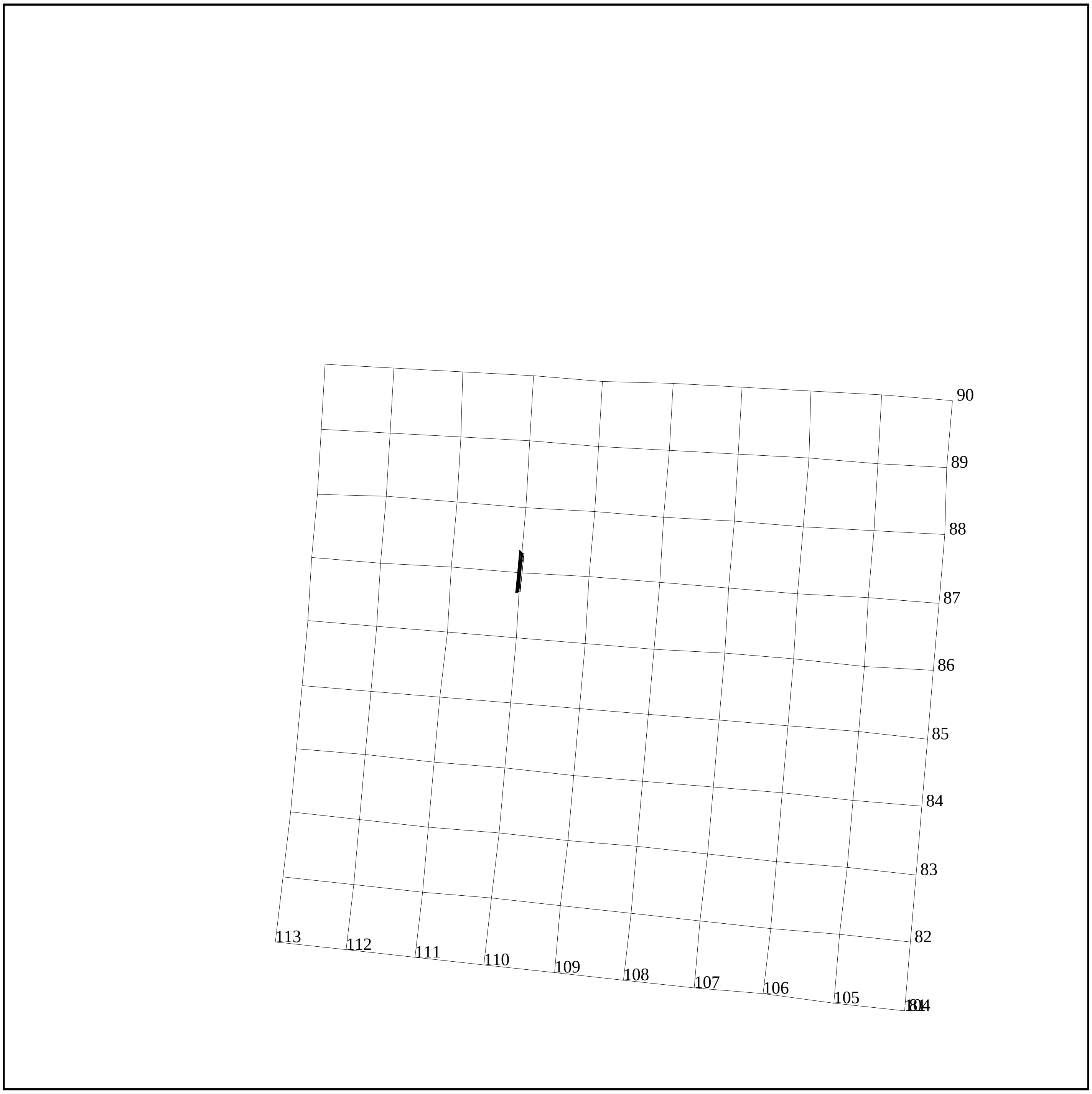

165FG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9800 TC= 2(110 87)
A= 728 pD= 0 SR=17.450 RA50=247.18 DEC50=-32.51 cone=110.00 clock= 87.00

G8HNDARK__04

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-128/11:42:13.400 +CDS 1766:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400**

OBSERVATION:G8HNDARK__04 **DESCRIP:DARK OBSERVATION**

NIMS Dark Observation	ACTIVITY ID: G8HNDARK__04- START TIME: 97-129/17:22:47.866

Activity ID: Orbit G8 Target H Inst N OAPEL DARK__ SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	05/09/97	Week	19

Start	JEE+CDS 00001761:00:0	97-129/17:22:47.866	JEE+001/05:40:34.000
End	JEE+CDS 00001767:00:0	97-129/17:28:51.866	JEE+001/05:46:38.000
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	G8HNDARK__04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

Data Returned

Design Detail

Target dark sky.

Long Map (LM), Gain 4, Grating Start 0, LPU, G8DK34, G8DK32

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NIMS Real-Time Software Reload	ACTIVITY ID: G8NNNIMSLD12- START TIME: 97-130/02:31:49.400

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 12 -

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

Time System	CDS	Load ID		Calendar Date	05/10/97	Week	19

Start	JEE+CDS 00002304:00:0	97-130/02:31:49.400	JEE+001/14:49:36.000
End	JEE+CDS 00002314:00:0	97-130/02:41:56.066	JEE+001/14:59:42.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label G8NNNIMSLD12-
Bottom Label

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

Observation Objective

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

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

Design Detail

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

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

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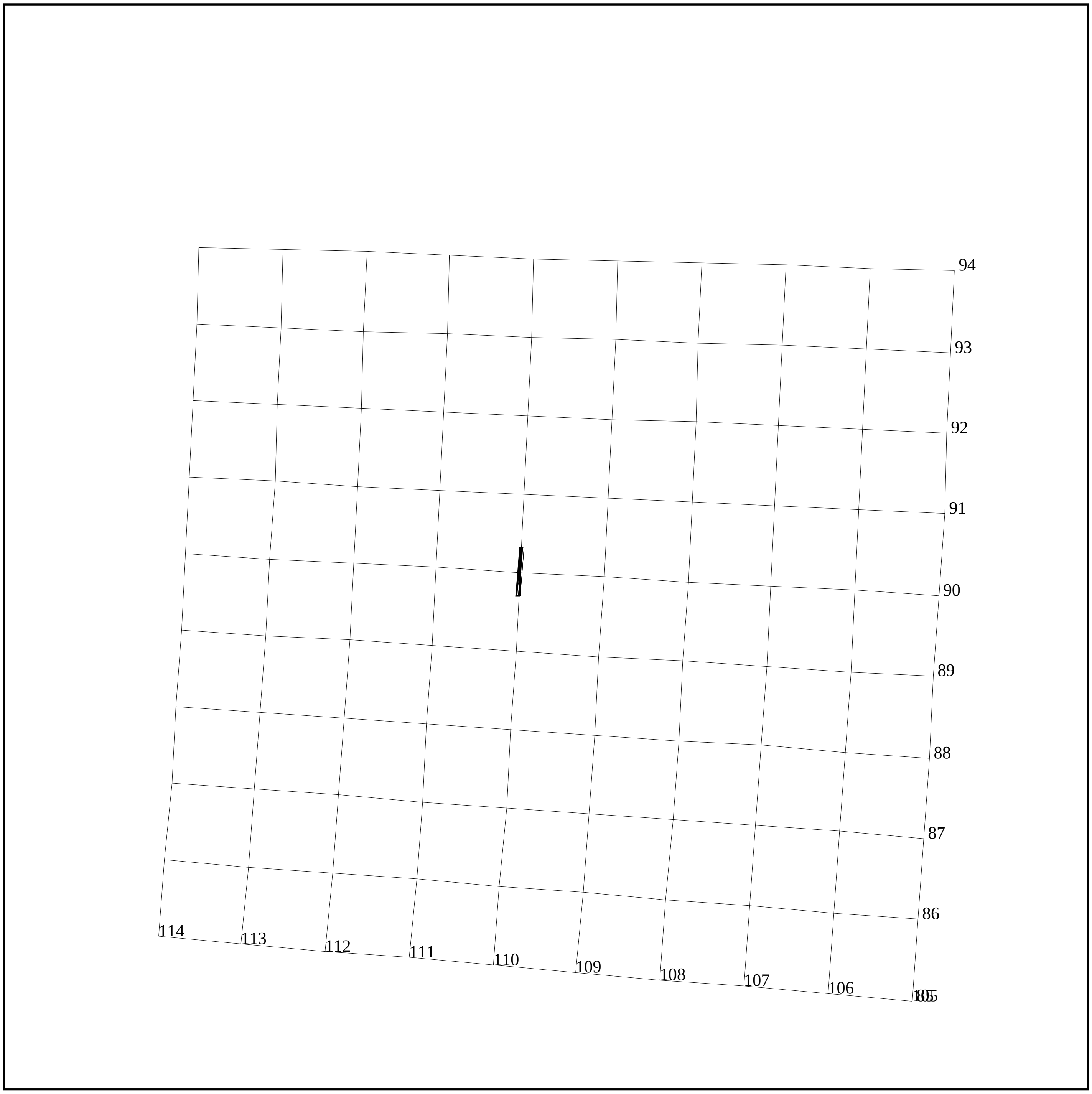

165FK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0628 TC= 2(110 90)
A= 728 pD= 0 SR=17.450 RA50=247.47 DEC50=-29.70 cone=110.00 clock= 90.00

G8HNDARK__05

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8HNDARK__05

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-128/11:42:13.400 +CDS 2320:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.400**

OBSERVATION:G8HNDARK__05 **DESCRIP:DARK OBSERVATION**

NIMS Dark Observation	ACTIVITY ID: G8HNDARK__05- START TIME: 97-130/02:43:57.866

Activity ID: Orbit G8 Target H Inst N OAPEL DARK__ SeqNo 05 -

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

Time System CDS Load ID Calendar Date 05/10/97 Week 19

Start	JEE+CDS 00002316:00:0	97-130/02:43:57.866	JEE+001/15:01:44.000
End	JEE+CDS 00002322:00:0	97-130/02:50:01.866	JEE+001/15:07:48.000
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G8HNDARK__05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

Data Returned

Design Detail

Target dark sky.

Long Map (LM), Gain 3, Grating Start 0, LPU, G8DK34, G8DK32

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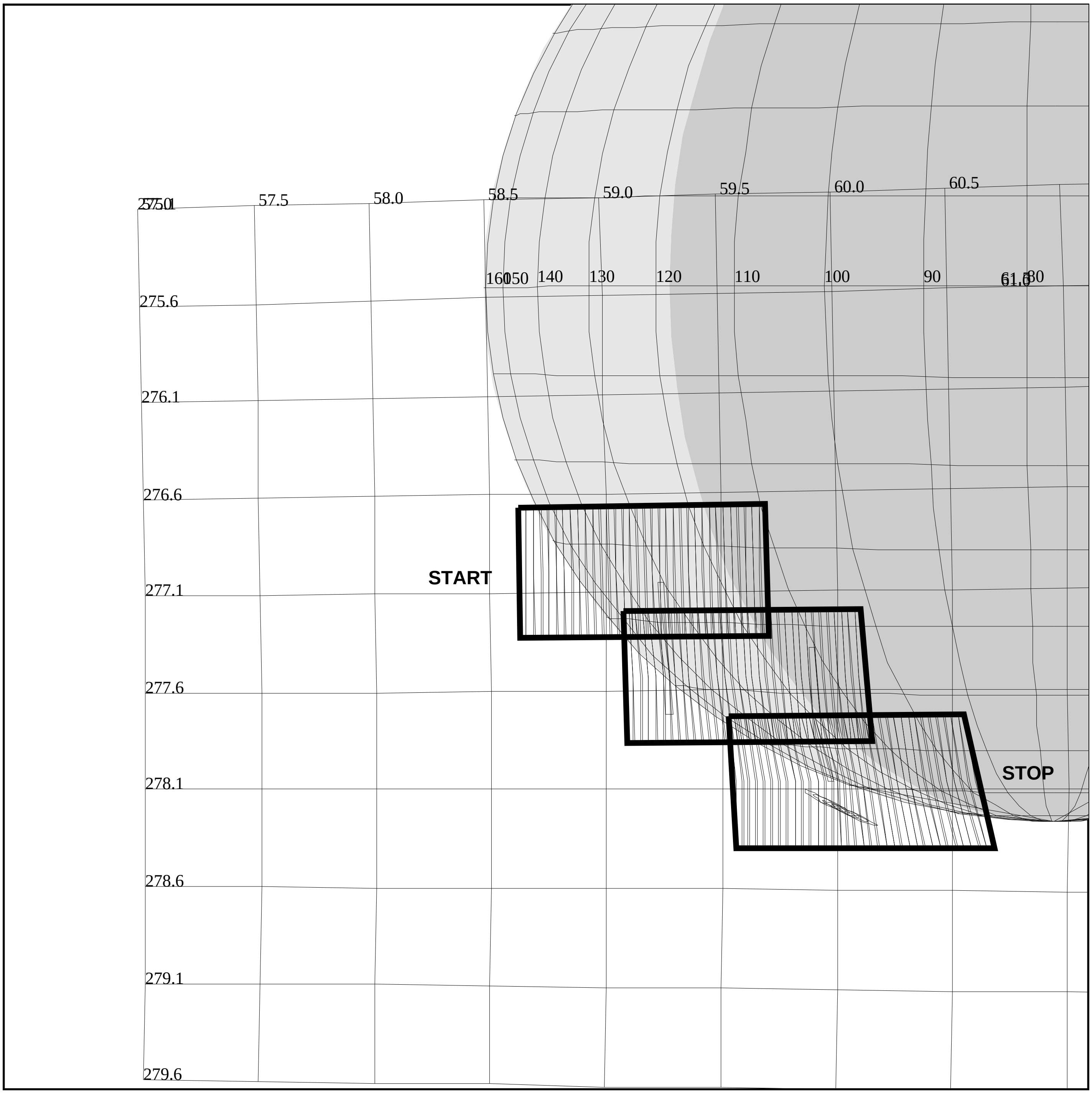


165FL:TT=   0 TMC= 1 C= -25.00 XC= -16.00 BS= 0/2084 TC= 1(-68.0   140.0   )
A= 728 pD=   0 SR=17.450 RA50= 80.73 DEC50= 24.23 cone= 58.59 clock=276.95
117FL:#SB= 1 OR= 0.110 RR= 3.000 BM=F RC= 1 BS= 0/2084
1:#s= 3 Cs=   18.50 XCs=   0.00 Cr= -11.00 XCr=   8.00 sD=   468 rD=   26

G8JNFAB13301

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFAB13301

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 2328:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.100**

OBSERVATION:G8JNFAB13301 **DESCRIP:Jup Ftr & Prt Trk A & B 133 deg**

Jupiter Ftr and Prtl Trk A and B 133 deg ACTIVITY ID: G8JNFAB13301-
START TIME: 97-130/02:52:02.733

Activity ID: Orbit G8 Target J Inst N OAPEL FAB133 SeqNo 01 -

Title	Jupiter Ftr and Prtl Trk A and B 133 deg	Instrument		NIMS	
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group	AWG	

Time System	CDS	Load ID		Calendar Date	05/10/97	Week	19

Start	JEE+CDS 00002324:00:0	97-130/02:52:02.733	JEE+001/15:09:49.333
End	JEE+CDS 00002337:00:0	97-130/03:05:11.400	JEE+001/15:22:58.000
Duration	00000013:00:0	000/00:13:08.667	000/00:13:08.667

Top Label G8JNFAB13301-
Bottom Label

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

Observation Objective

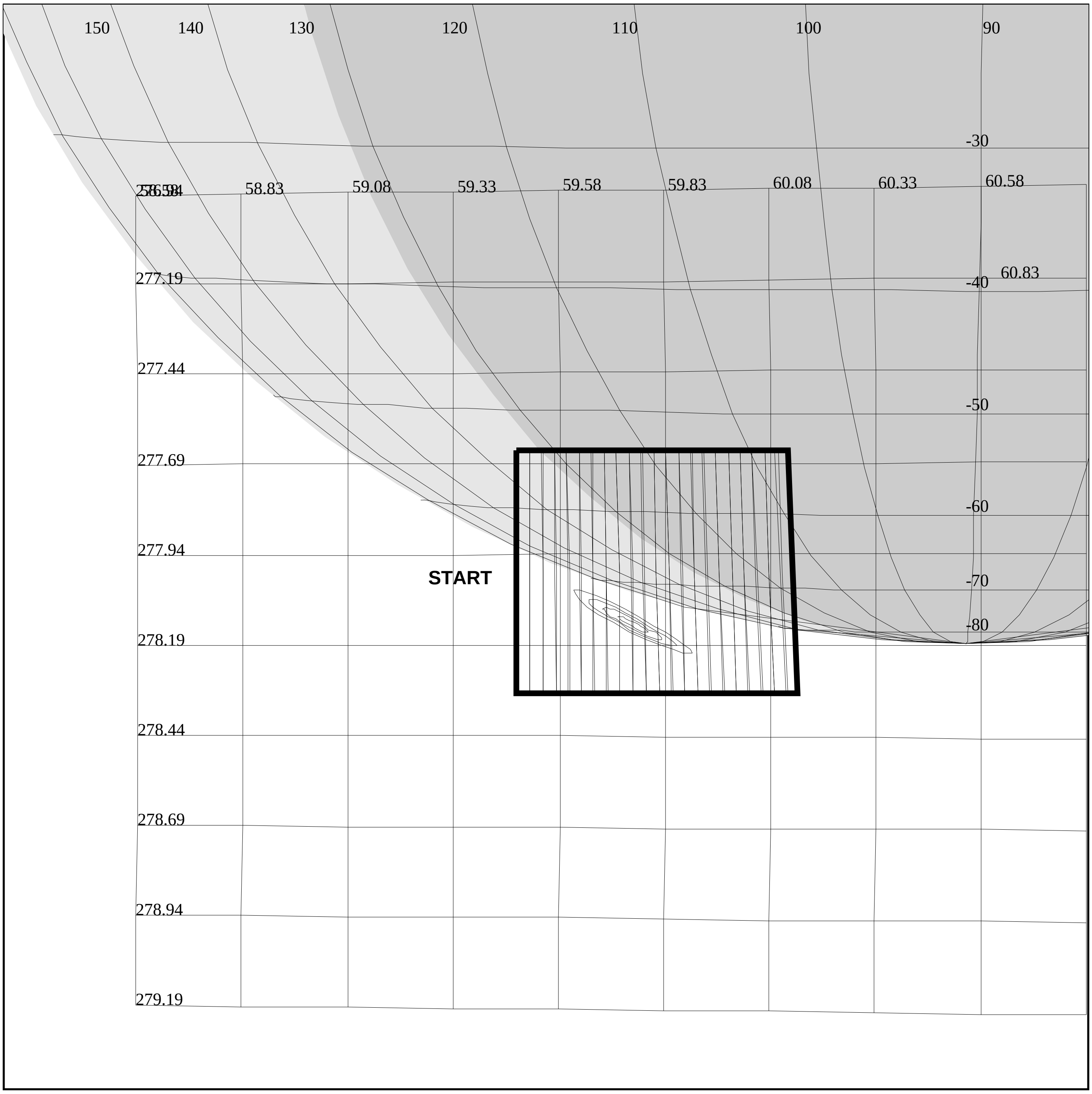
One of 16 OAPELS constituting the feature tracks for this South Polar Boundary feature campaign. Also, the fifth of six OAPELs for Partial Feature Campaign A and the sixth of seven OAPELs for Partial Feature Campaign B. For the primary feature campaign, this is the first of two observations obtained on a rotation with phase angle approximately 133 degrees. For the Partial Feature campaigns A and B, this is the only observation obtained on this rotation. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with South Polar Boundary feature near minimum airmass, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of Jupiter on its southern polar border 1 X 2 (10 East/West x 18 North/South mrads) area connected to 2 x 1 (20 East/West x 10 North/South mrads) region, together constituting an L-shaped area covering the campaign feature plus both Partial Features. Longitudinal axis of the L is near 140 degrees west longitude. The bottom of the L is centered at 68 degrees south planetographic latitude. Spacecraft distance about 1.64 million KM, NIMS IFOV (NIMSEL) = 820 KM; 1 x 2 part of mosaic covers 16400 East/West x 31160 North/South; 2 x 1 part of mosaic covers 32800 KM East/West x 16400 KM North/South. About 440 seconds of scanning/recording, including 40 seconds for reposition slews, accumulating 0.3198 MBTG in 15 colors, and using 0.01478 tracks. Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C



165FM:TT= 0 TMC= 1 C= -5.40 XC= 0.00 BS= 0/6270 TC= 1(-68.0 140.0)
A= 364 pD= 0 SR=17.450 RA50= 79.80 DEC50= 23.28 cone= 59.49 clock=277.99
117FM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6270
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA13301

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA13301

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

START:JEE 97-128/11:42:13.400 +CDS 2351:00:0

OBSERVATION:G8JNFEA13301

THINNING:NIM 2

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

DESCRIP:Jup Ftr Trk 133 deg phase pt.1

Jupiter Feature Track 133 deg phs pt 1	ACTIVITY ID:	G8JNFEA13301-
	START TIME:	97-130/03:17:19.400

Activity ID: Orbit G8 Target J Inst N OAPEL FEA133 SeqNo 01 -

Title	Jupiter Feature Track 133 deg phs pt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/10/97	Week	19

Start	JEE+CDS 00002349:00:0	97-130/03:17:19.400	JEE+001/15:35:06.000
End	JEE+CDS 00002353:00:0	97-130/03:21:22.066	JEE+001/15:39:08.666
Duration	00000004:00:0	000/00:04:02.666	000/00:04:02.666

Top Label   G8JNFEA13301-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the second of two observations obtained on a rotation with phase angle approximately 133 degrees (the first observation having been accomplished in OAPEL JAFAB13301). Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with South Polar Boundary feature near the terminator, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 1.65 million KM, NIMS IFOV (NIMSEL) = 825 KM; 1 X 1 mosaic covers 16500 X 16500 KM. About 100 seconds of scanning, accumulating 0.0727 MBTG in 15 colors, and using 0.00336 tracks.
Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

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NIMS Real-Time Software Reload	ACTIVITY ID: G8NNNIMSLD13- START TIME: 97-130/22:41:06.733

Activity ID: Orbit G8 Target N Inst N OAPEL NIMSLD SeqNo 13 -

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

Time System	CDS	Load ID		Calendar Date	05/10/97	Week	19

Start	JEE+CDS 00003500:00:0	97-130/22:41:06.733	JEE+002/10:58:53.333
End	JEE+CDS 00003510:00:0	97-130/22:51:13.400	JEE+002/11:09:00.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   G8NNNIMSLD13-
Bottom Label

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

Observation Objective

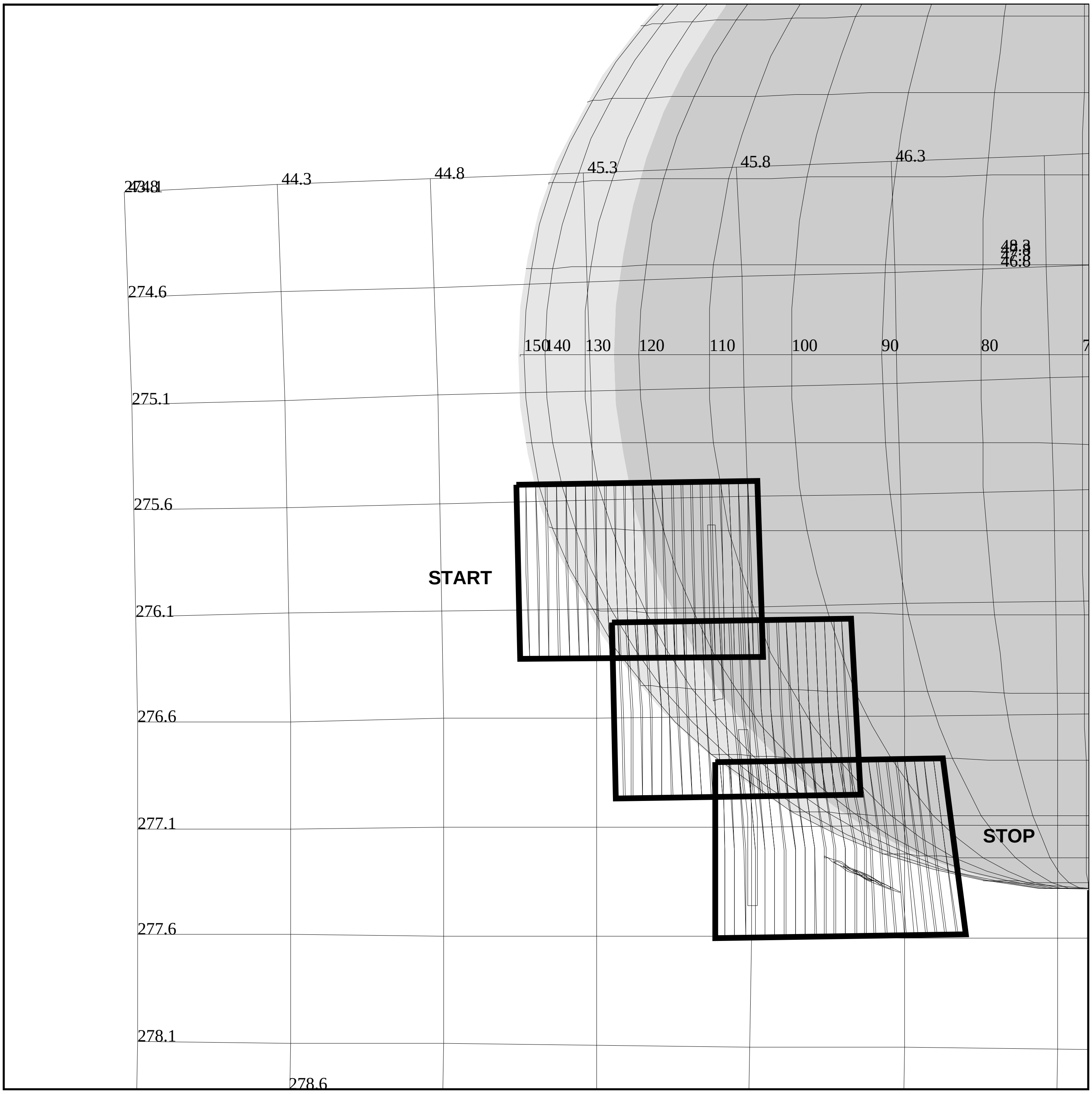
Reload NIMS software to prevent loss of science observations.
There loads are placed strategically to protect high priority science.

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

Design Detail

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

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



165FN:TT= 0 TMC= 1 C= -20.00 XC= -16.00 BS= 0/8300 TC= 1(-68.0 140.0)
A= 728 pD= 0 SR=17.450 RA50= 95.58 DEC50= 24.83 cone= 45.09 clock=275.93
117FN:#SB= 1 OR= 0.110 RR= 2.600 BM=F RC= 1 BS= 0/8300
1:#s= 3 Cs= 13.70 XCs= 0.00 Cr= -8.50 XCr= 8.00 sD= 346 rD= 26

G8JNFAB14601

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFAB14601

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-128/11:42:13.400 +CDS 3516:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.100**

OBSERVATION:G8JNFAB14601 **DESCRIP:Jup Ftr & Prt Trk A & B 146 deg**

Jupiter Ftr and Prtl Trks A and B 146 de	ACTIVITY ID: G8JNFAB14601-
	START TIME: 97-130/22:53:14.733

Activity ID: Orbit G8 Target J Inst N OAPEL FAB146 SeqNo 01 -

Title	Jupiter Ftr and Prtl Trks A and B 146 de	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID Calendar Date 05/10/97 Week 19

Start	JEE+CDS 00003512:00:0	97-130/22:53:14.733	JEE+002/11:11:01.333
End	JEE+CDS 00003523:00:0	97-130/23:04:22.066	JEE+002/11:22:08.666
Duration	00000011:00:0	000/00:11:07.333	000/00:11:07.333

Top Label G8JNFAB14601-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. Also, the last of six OAPELS for Partial Feature Campaign A and the last of seven OAPELS for Partial Feature Campaign B. For the primary feature campaign, this is the first of two observations obtained on a rotation with phase angle approximately 146 degrees. For Partial Feature Campaigns A and B, this is the only observation obtained on this rotation. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with South Polar Boundary feature near minimum airmass, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 x 3 (10 East/West x 26 North/South mrad) covering the campaign feature plus both Partial Features. Longitudinal axis of the area covered centered at 140 degrees west longitude, with southernmost tier centered at 140 degrees west longitude, 68 degrees south planetographic latitude. There is a twenty percent overlap between tiers. Spacecraft distance about 2.19 million KM, NIMS IFOV (NIMSEL) = 1095 KM; 1 x 3 mosaic covers 21900 KM East/West x 56940 KM North/South. About 340 seconds of scanning/recording, including 40 seconds total for reposition slews, accumulating 0.30542 MBTG in 19 colors, and using 0.01142 tracks. Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

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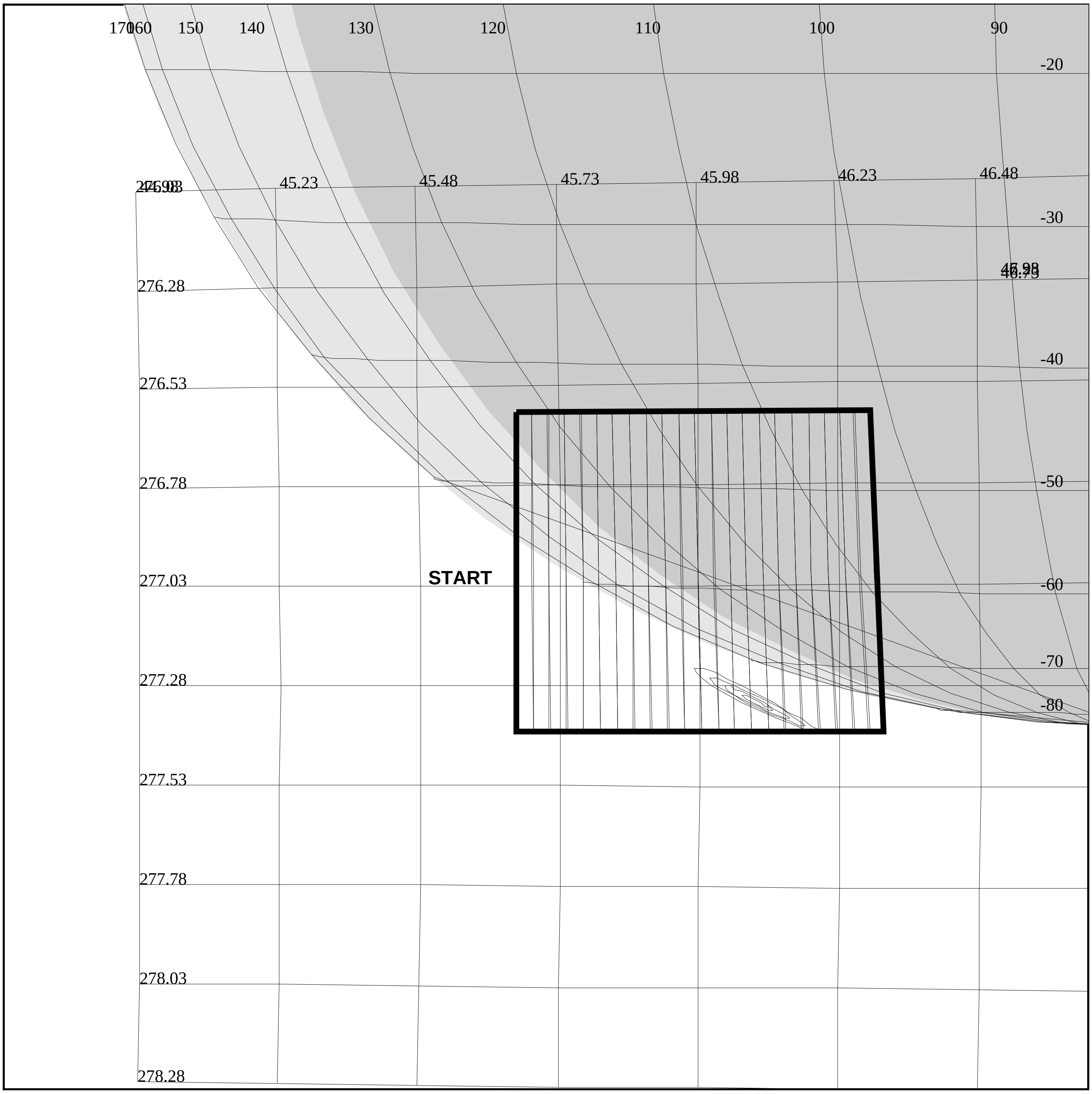

165FO:TT= 0 TMC= 1 C= -8.00 XC= -2.50 BS= 0/2304 TC= 1(-68.0 140.0)
A= 364 pD= 0 SR=17.450 RA50= 94.91 DEC50= 24.11 cone= 45.66 clock=276.99
117FO:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2304
1:#s= 1 Cs= 10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 300 rD= 2

G8JNFEA14601

TARGET G3.1 jdods: 4/10/1997 17:20:47

FILE:P.G8JNFEA14601

CENTRAL BODY:JUPITER

MINI:m.target

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

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-128/11:42:13.400 +CDS 3538:00:0

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

OBSERVATION:G8JNFEA14601

DESCRIP:Jup Ftr Trk 146 deg phase pt.1

Jupiter Feature Track 146 deg phase pt 1 ACTIVITY ID: G8JNFEA14601-
START TIME: 97-130/23:17:30.733

Activity ID: Orbit G8 Target J Inst N OAPEL FEA146 SeqNo 01 -

Title	Jupiter Feature Track 146 deg phase pt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES		Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 05/10/97	Week 19

Start	JEE+CDS 00003536:00:0	97-130/23:17:30.733	JEE+002/11:35:17.333
End	JEE+CDS 00003539:80:0	97-130/23:21:26.066	JEE+002/11:39:12.666
Duration	00000003:80:0	000/00:03:55.333	000/00:03:55.333

Top Label G8JNFEA14601-
Bottom Label

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

Observation Objective

One of 16 OAPELs constituting the feature tracks for the South Polar Boundary feature campaign. This is the second of two observations obtained on a rotation with phase angle approximately 146 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with South Polar Boundary feature near the terminator, assuming feature coordinates 68 degrees south latitude (planetographic) and 140 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on South Polar Boundary feature near 140 degrees west longitude, 68 degrees south planetographic latitude. Spacecraft distance about 2.20 million KM, NIMS IFOV (NIMSEL) = 1100 KM; 1 X 1 mosaic covers 22000 X 22000 KM. About 100 seconds of scanning, accumulating 0.02554 MBTG in 4 colors, and using 0.00336 tracks.
Two rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, G8JFT68C, G8JFT68C

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NIMS Chopper Off		ACTIVITY ID:	G8NNCHOPOF01-
		START TIME:	97-130/23:21:33.400

Activity ID: Orbit G8 Target N Inst N OAPEL CHOPOF SeqNo 01 -

Title	NIMS Chopper Off			Instrument	NIMS
Requestor	NIMS-SWG/P. HERRERA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 05/10/97 Week 19

Start	JEE+CDS 00003540:00:0	97-130/23:21:33.400	JEE+002/11:39:20.000
End	JEE+CDS 00003547:00:0	97-130/23:28:38.066	JEE+002/11:46:24.666
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G8NNCHOPOF01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

NIMS reference chopper off.

Design Detail

Use NIMSINIT with the following commands:

37IST,1,0,0,OFF,0,0,0 Chopper 63 Hz

37IST,1,1,0,OFF,0,0,0 Chopper Off

NIMSTAB to reset wavelength and 37IOP,l 0,0 (Safe Mode)

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NIMS Real-Time PCT Calibration	ACTIVITY ID: G8NNPCTRLT01- START TIME: 97-133/19:34:31.800

Activity ID: Orbit G8 Target N Inst N OAPEL PCTRLT SeqNo 01 -

Title	NIMS Real-Time PCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/13/97	Week	20

Start	PCT+CDS	00000000:00:0	97-133/19:34:31.800	PCT+000/00:00:00.000
End	PCT+CDS	00000465:00:0	97-134/03:24:41.800	PCT+000/07:50:10.000
Duration		00000465:00:0	000/07:50:10.000	000/07:50:10.000

Top Label G8NNPCTRLT01-
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 in Real-Time. This calibration will take place in the G8B load phase. At this time the off sun angle is about 8.5 degrees.

Data Returned

Design Detail

The Dark cone, clock angles must be selected using Pointer.

1) Turn off PCT heaters 6 hours before calibration.
2) Set NIMS to Long Map Mode, Gain State 4, ETB = PCT252,
3) Slew to Dark (cone = 110.00, clock = 90.00), Real-time, 1 RIM
4) Slew to PCT (cone = 54.88, clock = 244.07), Real-time, 10 RIMS
5) Slew to Safe (cone = 153.00, clock = 0.000).

Long Map (LM), Gain 4, Grating Start 0, R/T, G8PCT252.

Long Map (LM), Gain 4, Grating Start 0, R/T, G8PCT252

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NIMS RCT REAL TIME CALIBRATION **ACTIVITY ID: G8NNRCTRLT01-**
START TIME: 97-134/04:38:30.466

Activity ID: Orbit G8 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	NIMS RCT REAL TIME CALIBRATION			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 05/14/97 Week 20

Start	RTA+CDS 00000000:00:0	97-134/04:38:30.466	RTA+000/00:00:00.000
End	RTA+CDS 00000787:00:0	97-134/17:54:15.132	RTA+000/13:15:44.666
Duration	00000787:00:0	000/13:15:44.666	000/13:15:44.666

Top Label G8NNRCTRLT01-
Bottom Label

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

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibratie the NIMS thermal detectors.
The calibration data will be returned using Real Time Telemetry.
This calibration will take place after the + 3 day OTM.

Data Returned

Design Detail

This is a Library Sequence.
The Dark cone angle must be selected using Pointer.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone= 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone=153.0)
9) Set NIMS to Sfe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, G8RCT252

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NIMS RCT REAL TIME CALIBRATION ACTIVITY ID: G8NNRCTRLT02-
START TIME: 97-157/07:38:25.266

Activity ID: Orbit G8 Target N Inst N OAPEL RCTRLT SeqNo 02 -

Title	NIMS RCT REAL TIME CALIBRATION			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 06/06/97 Week 23

Start	RTB+CDS 00000000:00:0	97-157/07:38:25.266	RTB+000/00:00:00.000
End	RTB+CDS 00000787:00:0	97-157/20:54:09.932	RTB+000/13:15:44.666
Duration	00000787:00:0	000/13:15:44.666	000/13:15:44.666

Top Label G8NNRCTRLT02-
Bottom Label

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

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibratie 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 RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone= 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone=153.0)
9) Set NIMS to Sfe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, G8RCT252

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NIMS OPCAL	ACTIVITY ID: G8NNOPCAL_01- START TIME: 97-166/16:00:22.733

Activity ID: Orbit G8 Target N Inst N OAPEL OPCAL_ SeqNo 01 -

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

Time System CDS   Load ID   Calendar Date 06/15/97 Week 24

Start	JEE+CDS 00054374:00:0	97-166/16:00:22.733	JEE+038/04:18:09.333
End	JEE+CDS 00054396:00:0	97-166/16:22:37.400	JEE+038/04:40:24.000
Duration	00000022:00:0	000/00:22:14.667	000/00:22:14.667

Top Label   G8NNOPCAL_01-
Bottom Label

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

Observation Objective

Real Time OPCAL to determine grating correction.

Data Returned

Design Detail

Target to Dark
Opcal on for 1 Rim R/T
Dark for 1 Rim R/T
Opcal for 1 Rim R/T

Long Map (LM), Gain 4, Grating Start 0, R/T, RTOPCAL120

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DET3 ANOMALY

ACTIVITY ID: G8NNDET3AN01-
START TIME: 97-169/08:37:00.000

Activity ID: Orbit G8 Target N Inst N OAPEL DET3AN SeqNo 01 -

Title	DET3 ANOMALY			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 06/18/97 Week 24

Start	97-169/08:37:00.000
End	97-169/10:23:00.000
Duration	000/01:46:00.000

Top Label G8NNDET3AN01-
Bottom Label

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

Observation Objective

Real Time Test of Detector 3 Failure

Power NIMS Off then On to see if Detector 3 can be recovered.

Previous tests have not allowed for the instrument to be powered off for longer than 5 minutes. This test has the instrument off for 1 hour - adequate time to allow for capcitor discharge and latches to 'unstick' per R. Steinkraus.

This is the last test planned to 'rescue' detector 3.

Data Returned

Design Detail

Power Off NIMS (CMD,37AR)
Power On NIMS (CMD,37A) after 1 hour.
ReLoad NIMS Phase2 Software from CDS.
Select Detectors 1,2,3,4 and 7,8,9 to investigate detectors 3 and 8.
  G8NNDET3AN01
Return 2 Rims (2 grating cycles) of NIMS RealTime.
Turn off Mirror Scan using 37MPT.
  G8NNDET3AN02
Again, Return 2 Rims (2 grating cycles) of NIMS RealTime.

Long Map (LM), Gain 2, Grating Start 0, R/T, DET3ANOM

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