Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

NIMS chopper turn on	ACTIVITY ID: 10NNCHOPON01 START TIME: 97-259/17:19:46.067

Activity ID: Orbit 10 Target N Inst N OAPEL CHOPON SeqNo 01

Title	NIMS chopper turn on			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/16/97	Week	38

Start	CEE-CDS 00000415:00:0	97-259/17:19:46.067	CEE-000/06:59:36.666
End	CEE-CDS 00000410:00:0	97-259/17:24:49.400	CEE-000/06:54:33.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label	G7NNCHOPON01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

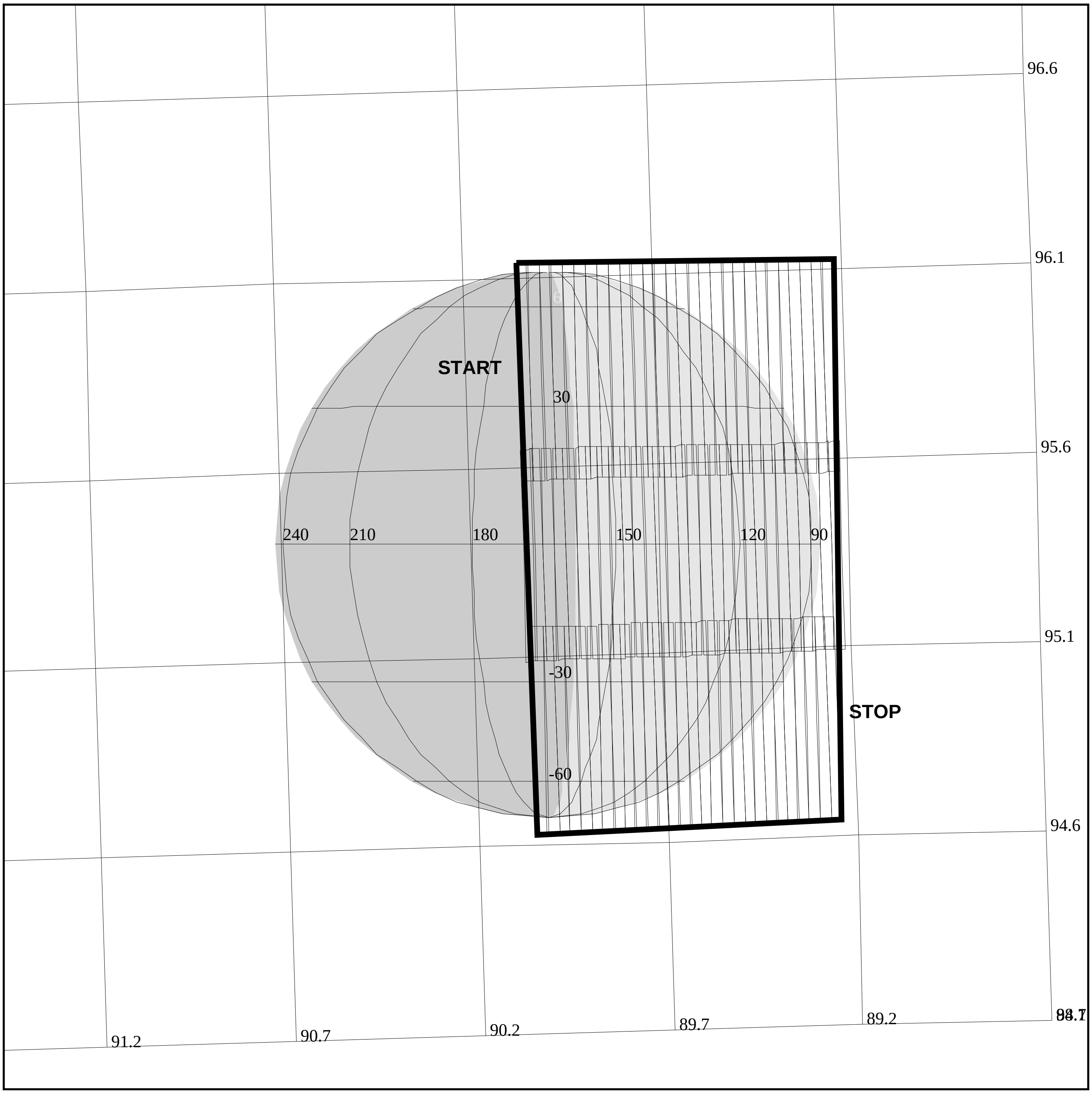
Observation Objective

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

Design Detail

Use two NIMS 37IST commands, the first to turn chopper on and the second to reference:

```
37IST,1,0,0,OFF,0,0,0
37IST,1,2,0,OFF,0,0,0
```



165DA:TT= 0 TMC= 1 C= 1.00 XC= 8.00 BS= 0/7805 TC= 3
A= 728 pD= 0 SR=17.450 RA50=221.19 DEC50=-17.24 cone= 90.07 clock= 95.85
117DA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7805
1:#s= 3 Cs= -14.50 XCs= 0.00 Cr= 14.80 XCr= -8.50 sD= 1456 rD= 26

10CNGLOBAL01

TARGET G3.2 lisac: 9/23/1997 11:11: 8

FILE:P.10CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:CEE 97-260/00:19:22.733 -CDS 396:00:0

OBSERVATION:10CNGLOBAL01

THINNING:NIM 2

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

DESCRIP:CALLISTO GLOBAL COVERAGE

Callisto Global Coverage		ACTIVITY ID:	10CNGLOBAL01-
		START TIME:	97-259/17:33:55.400

Activity ID: Orbit 10 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	09/16/97	Week 38

Start	CEE-CDS	00000401:00:0	97-259/17:33:55.400	CEE-000/06:45:27.333
End	CEE-CDS	00000367:00:0	97-259/18:08:18.067	CEE-000/06:11:04.666
Duration		00000034:00:0	000/00:34:22.667	000/00:34:22.667

Top Label	10CNGLOBAL01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	190	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 data over all lit longitudes and latitudes, to investigate surface mineralogy and to determine the distribution of compositional units.

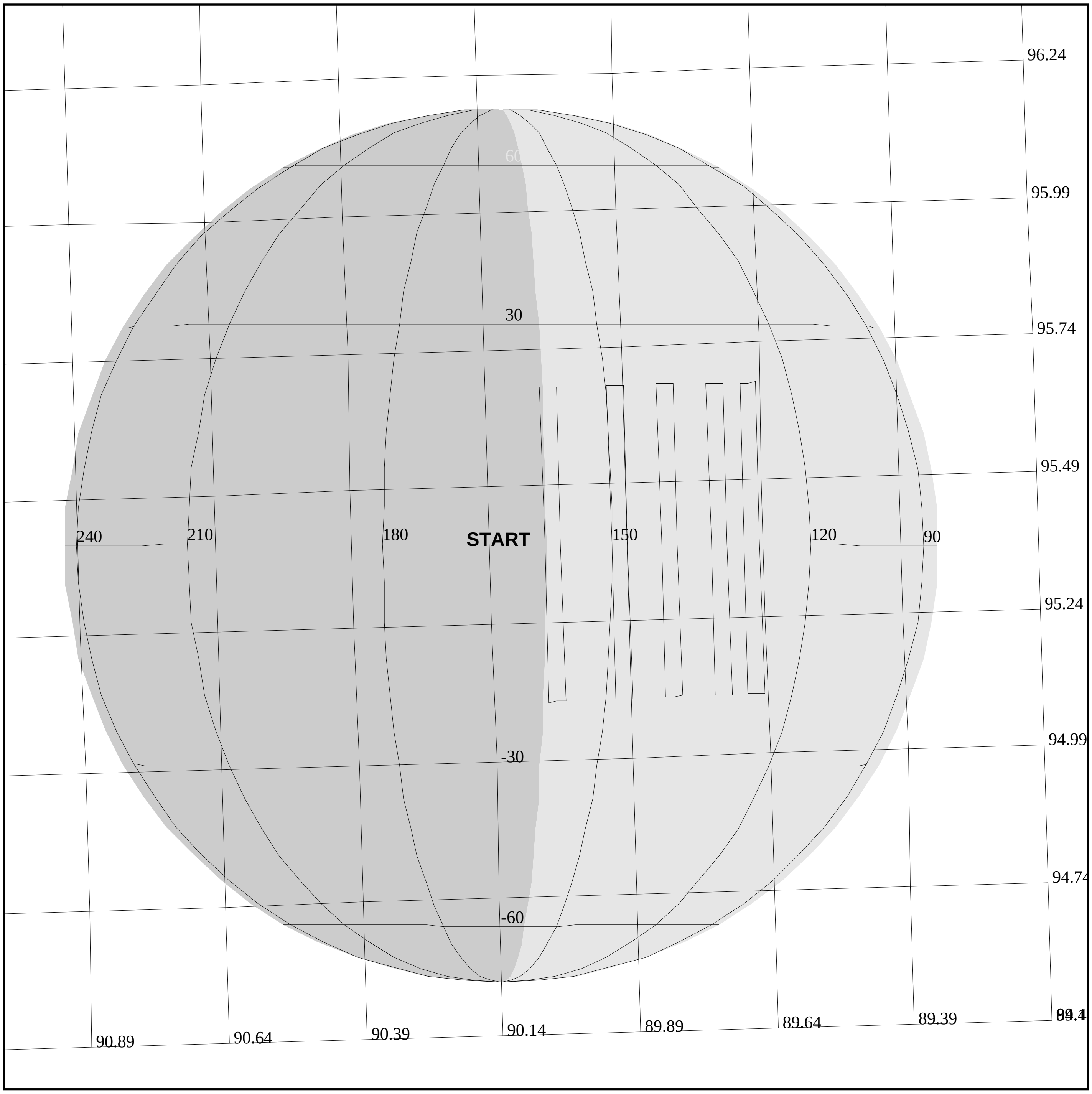
Data Returned

Design Detail

Record Mode: LPU
Instrument mode: LM
Spatial resolution: 100 km/nimsel
Instrument gain state: 4
Spectral resolution: 51 wavelengths
Phase angle: 94.68
Coverage in nimsels:
Bits-to-Ground: 3.5 mbits

Continuous slew mosaic covering all lit longitudes and latitudes at 6 hrs prio closest approach. 20% overlap NYQUIST sampling. 3 swaths to cover lit surface.

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM243C, CLM228C



165FU:TT= 0 TMC= 1 C= -1.50 XC= 0.00 BS= 0/4539 TC= 3
A= 182 pD= 0 SR=17.450 RA50=220.99 DEC50=-17.66 cone= 90.03 clock= 95.39
117FU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4539
1:#s= 1 Cs= -6.65 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 670 rD= 2

10CNCALLRT02

TARGET G3.2 lisac: 9/23/1997 11:11: 8

FILE:P.10CNCALLRT02

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:CEE 97-260/00:19:22.733 -CDS 359:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:10CNCALLRT02 **DESCRIP:CALLISTO_REAL_TIME_OBSERVATION**

Callisto Real-Time Observation		ACTIVITY ID:	10CNCALLRT02-
		START TIME:	97-259/18:09:18.733

Activity ID: Orbit 10 Target C Inst N OAPEL CALLRT SeqNo 02 -

Title	Callisto Real-Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/16/97	Week	38

Start	CEE-CDS 00000366:00:0	97-259/18:09:18.733	CEE-000/06:10:04.000
End	CEE-CDS 00000354:00:0	97-259/18:21:26.733	CEE-000/05:57:56.000
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label	10CNCALLRT02-
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

Real-Time observation of Callisto’s equatorial region taken at different longitudes. These observations provide insight into wavelength selection information for playback as well as supplying compositional data about Callisto’s surface.

Data Returned

Design Detail

Target dayside equatorial region and scan from terminator to limb as time allows.

Instrument mode is LM, 408 wavelength return, mirror blocked, real-time selected.

Scan rate of 0.03 mrad/sec or whatever provides Nyquist sampling.

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

Long Map (LM), Gain 4, Grating Start 0, R/T, RT408

Galileo Activity Plan Form 08/20/97 15:06:36 rev 6/95

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C10 Callisto C/A moveable block		ACTIVITY ID:	10CXMOVBLK01
		START TIME:	97-259/18:29:32.067

Activity ID: Orbit 10 Target C Inst X OAPEL MOVBLK SeqNo 01

Title	C10 Callisto C/A moveable block			Instrument	
Requestor	NIMS-SWG/J.CULWELL	Team	RSSG	Working Group	SWG

Time System CDS Load ID C10A Calendar Date 09/16/97 Week 38

Start	CTE-CDS 346:00:0	97-259/18:29:32.067	CTE-000/05:49:50.666
End	CTE-CDS 00000341:00:0	97-259/18:34:35.400	CTE-000/05:44:47.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label
Bottom Label

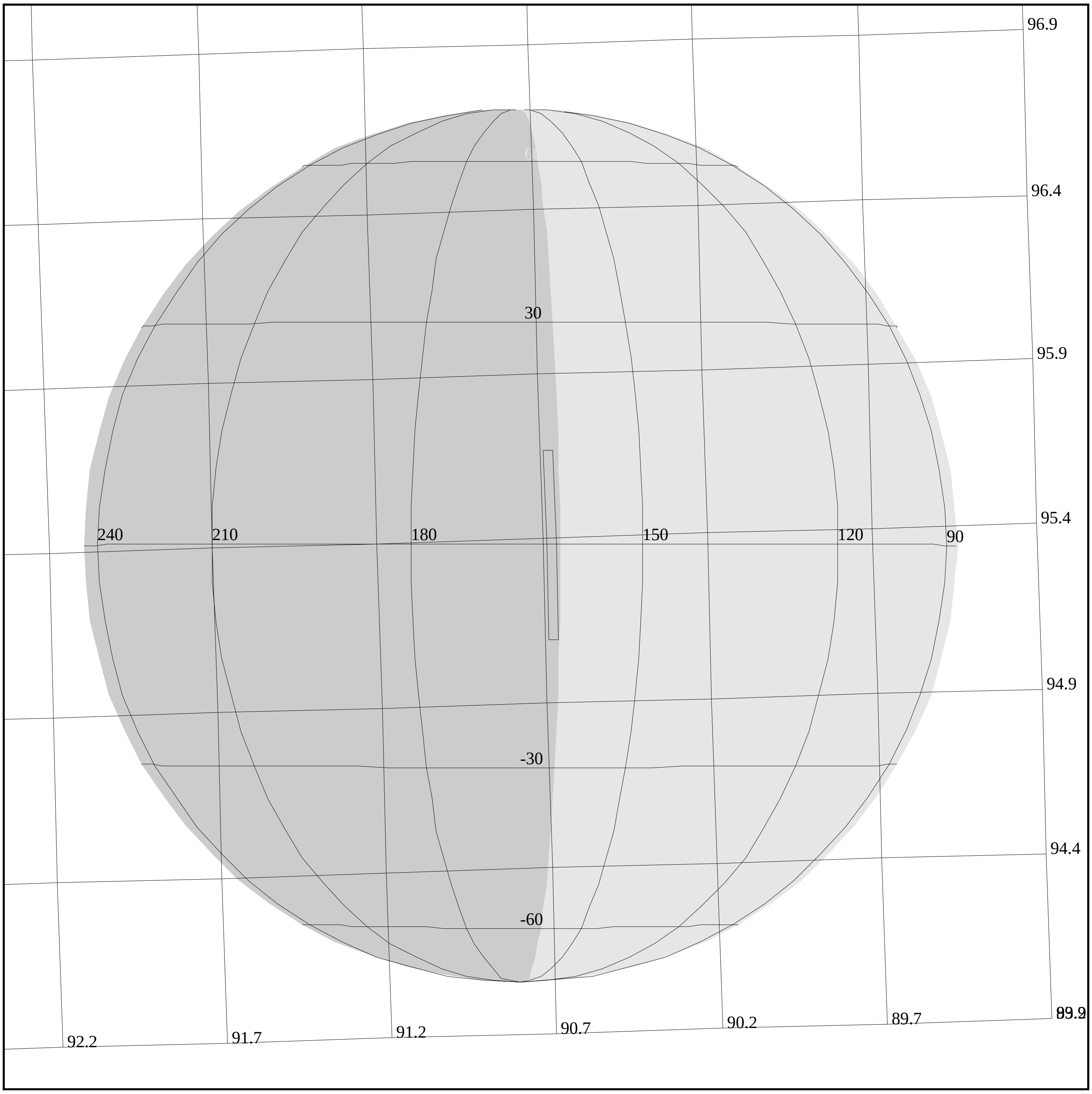
Plot Key	MSNEV1	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Reserve time in the sequence for moving the closest approach observations to be centered on C/A

Design Detail

Galileo Activity Plan Form 08/20/97 15:06:36 rev 6/95



165FT:TT= 0 TMC= 1 C= -1.50 XC= 0.00 BS= 0/0565 TC= 3
A= 182 pD= 0 SR=17.450 RA50=221.67 DEC50=-17.93 cone= 90.73 clock= 95.35
117FT:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0565
1:#s= 1 Cs= -7.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

10CNCALLRT01

TARGET G3.2 lisac: 9/23/1997 11:11: 8

FILE:P.10CNCALLRT01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:CTE 97-260/00:19:22.733 -CDS 216:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:10CNCALLRT01 **DESCRIP:CALLISTO_REAL_TIME_OBSERVATION**

Callisto Real-Time Observation	ACTIVITY ID: 10CNCALLRT01- START TIME: 97-259/20:36:56.067

Activity ID: Orbit 10 Target C Inst N OAPEL CALLRT SeqNo 01 -

Title	Callisto Real-Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/16/97	Week 38

Start	CTE-CDS 00000220:00:0	97-259/20:36:56.067	CTE-000/03:42:26.666
End	CTE-CDS 00000212:00:0	97-259/20:45:01.400	CTE-000/03:34:21.333
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label 10CNCALLRT01-
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

Real-Time observation of Callisto’s equatorial region taken at different longitudes. These observations provide insight into wavelength selection information for playback as well as supplying compositional data about Callisto’s surface.

Data Returned

Design Detail

Target dayside equatorial region and scan from terminator to limb as time allows.

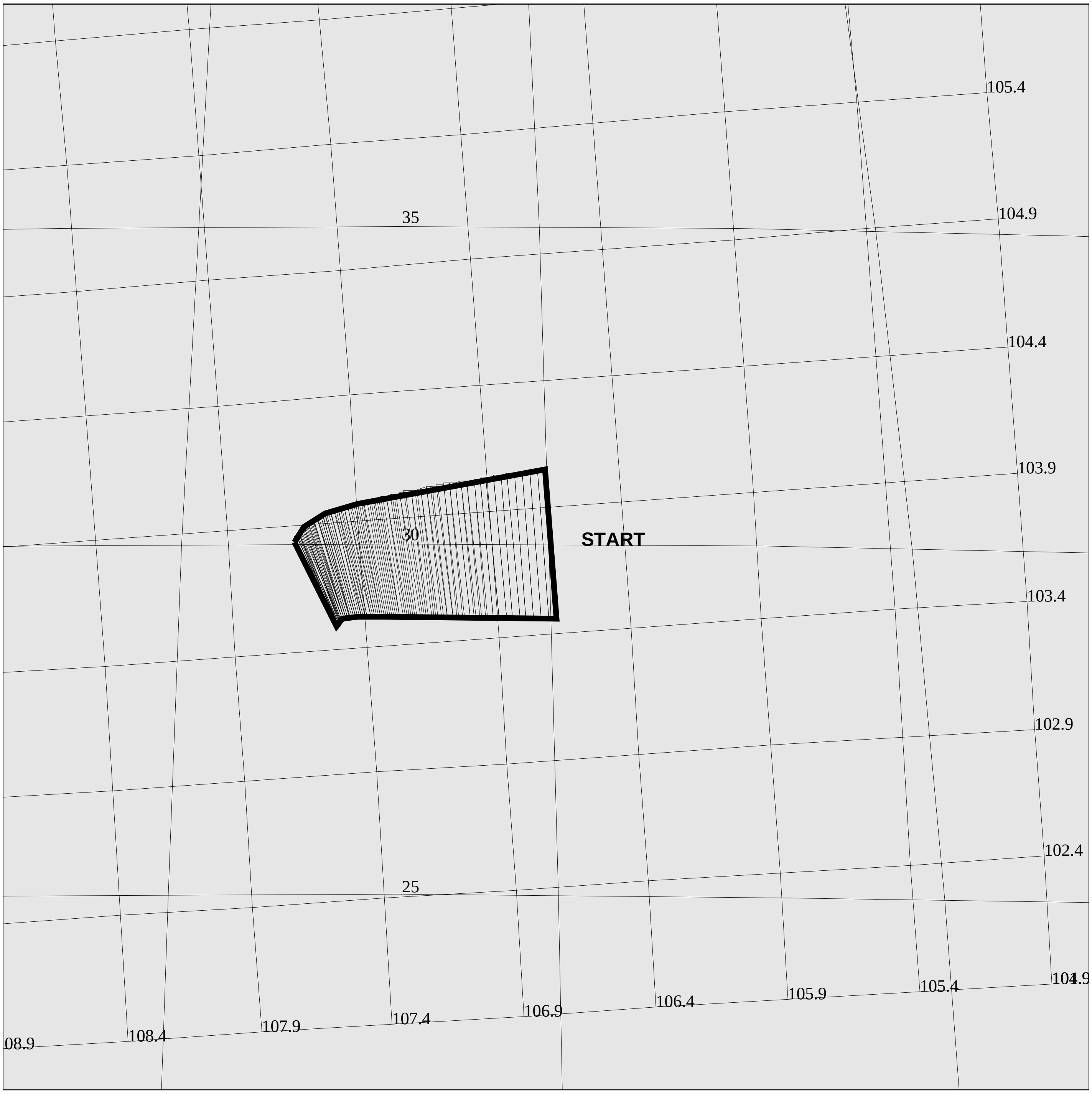
Instrument mode is LM, 408 wavelength return, mirror blocked, real-time selected.

Scan rate of 0.03 mrad/sec or whatever provides Nyquist sampling.

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

Long Map (LM), Gain 4, Grating Start 0, R/T, RT408

Galileo Activity Plan Form 08/20/97 15:06:36 rev 6/95



165DB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6419 TC= 1(30 150)
A= 364 pD= 1624 SR=17.450 RA50=240.13 DEC50=-14.83 cone=106.69 clock=103.75
117DB:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/6419
1:#s= 1 Cs= 32.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1624 rD= 30

10CNASGARD01

DESIGN G3.2 lisac: 9/26/1997 12:29: 0

FILE:P.10CNASGARD01

TARGET BODY : CALLISTO

MINI:m.10CNASGARD01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:CTE 97-260/00:19:22.733 -CDS 19:00:0

OBSERVATION:10CNASGARD01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1624 S= 7.000

DESCRIP:ASGARD BASIN OBSERVATION

ASGARD Basin observation — ACTIVITY ID: 10CNASGARD01- START TIME: 97-259/23:57:08.067

Activity ID: Orbit 10 Target C Inst N OAPEL ASGARD SeqNo 01 -

Title	ASGARD Basin observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 09/16/97 Week 38

Start	CTE-CDS 00000022:00:0	97-259/23:57:08.067	CTE-000/00:22:14.666
End	CTE-CDS 00000010:00:0	97-260/00:09:16.067	CTE-000/00:10:06.666
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label 10CNASGARD01
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain high spectral and high spatial resolution data on Asgard's palimpsests. To investigate its origin and determine compositional units.

Data Returned

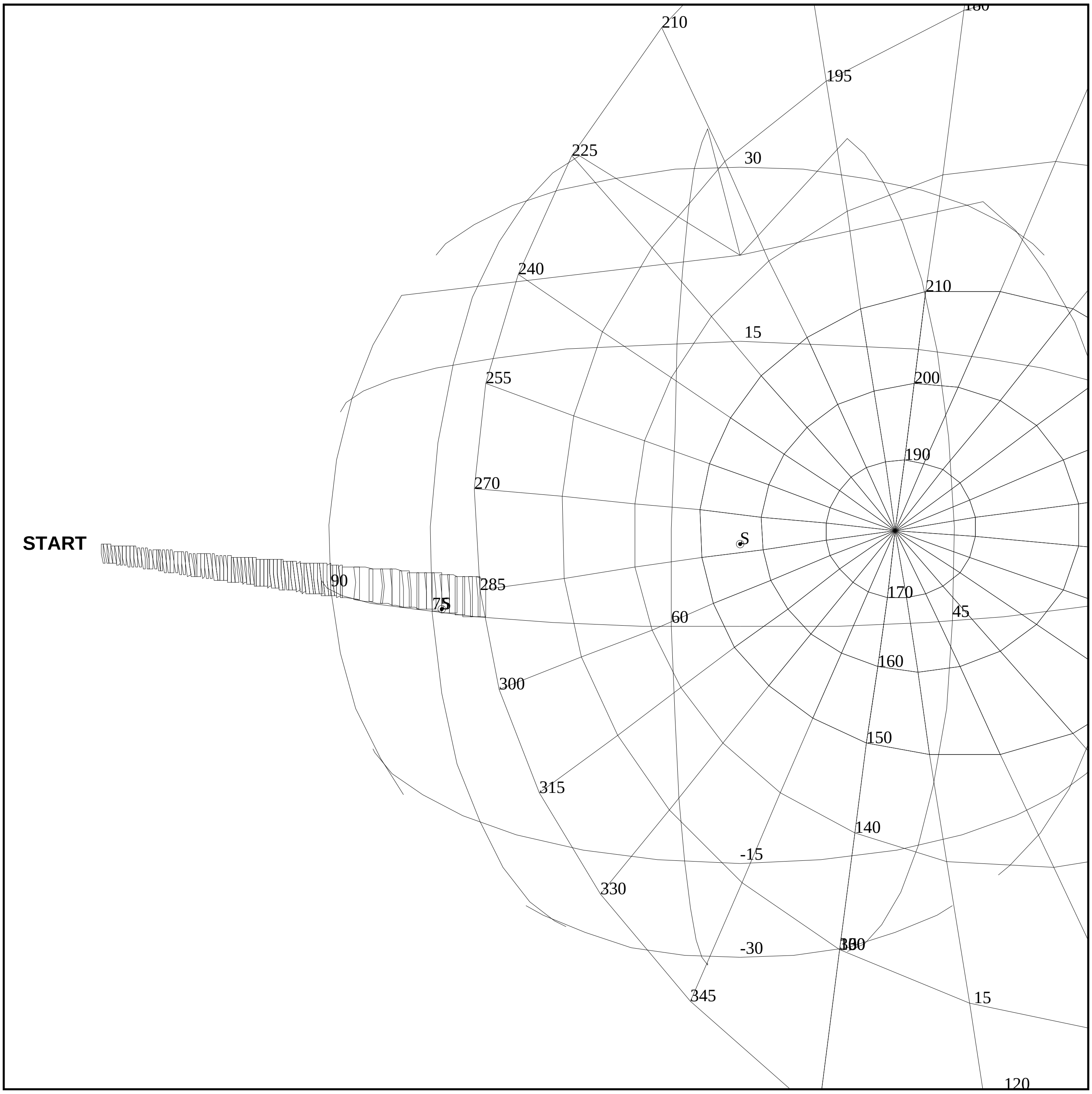
Design Detail

Record Mode: MPW
Instrument mode: FM
Spatial resolution: 3.835 km/nimsel
Instrument gain state: 4
Spectral resolution: 102 wavelengths
Phase angle: 79.29
Coverage in nimsels: 230km * 76.7 km
Bits-to-Ground: 1.75 mbits

One continuous scan across Asgard's palimpsest NYQUIST sampling.

Full Map (FM), Gain 4, Grating Start 0, MPW, CFM221, CFM180

Galileo Activity Plan Form 08/20/97 15:06:37 rev 6/95



165CF:TT= 0 TMC= 1 C= -370.00 XC= -104.00 BS= 0/0240 TC= 2(117.0 284.5)
A= 546 pD= 0 SR=17.430 RA50= 36.21 DEC50= 13.34 cone= 95.80 clock=277.81

10CNBRTLMB01

TARGET G3.1 lisac: 8/25/1997 12:50:26

FILE:P.10CUBRTLMB02

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING: :UVS 1**

START:CTE 97-260/00:19:22.733 +CDS 02:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:10CUBRTLMB02 **DESCRIP:C10 UVS H Bright Limb Drift**

```
NIMS CALLISTO BRIGHT LIMB (OH)          ACTIVITY ID:   10CNBRTLMB01+
                                         START TIME:   97-260/00:20:23.399

Activity ID: Orbit 10  Target C  Inst N  OAPEL BRTLMB  SeqNo 01 +

Title        NIMS CALLISTO BRIGHT LIMB (OH)         Instrument       NIMS
Requestor    NIMS-SWG/M. SEGURA        Team   NIMS  Working Group    SWG

Time System  CDS       Load ID         Calendar Date  09/17/97  Week  38

Start        CTE+CDS 1:00:0        97-260/00:20:23.399   CTE+000/00:01:00.666
End          CTE+CDS 00000008:00:0 97-260/00:27:28.066   CTE+000/00:08:05.333
Duration            00000007:00:0     000/00:07:04.667       000/00:07:04.667

Top Label    10CNBRTLMB01+
Bottom Label

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

Observation Objective

Limb scan of Callisto.
NIMS will ride along with UVS. Search for atmosphere.

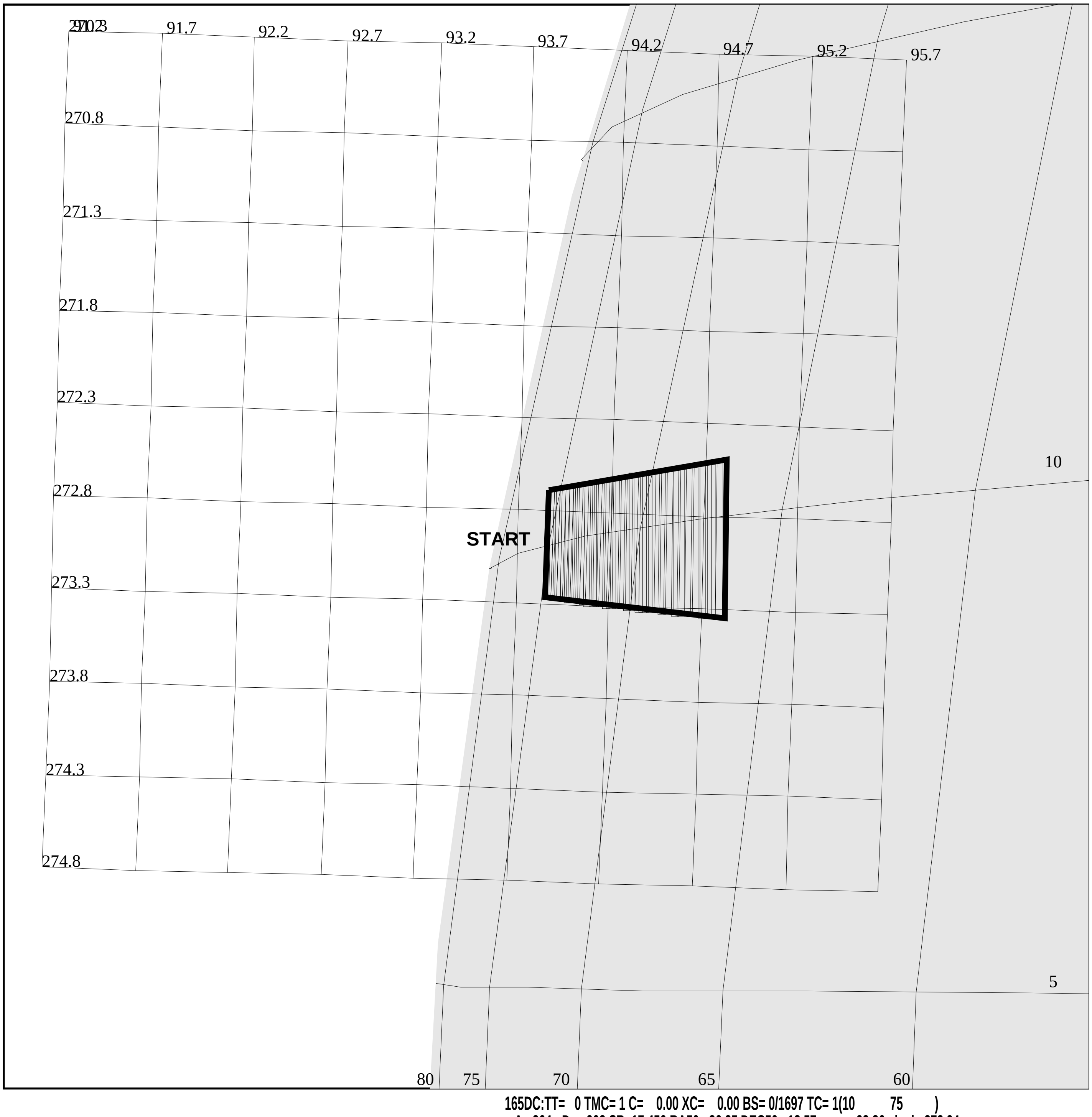
Data Returned

Design Detail

Instrument mode: LM
Gain State: 4

Full Map (FM), Gain 4, Grating Start 0, MPW, CFM221, CFM24

Galileo Activity Plan Form   08/20/97 15:06:37   rev 6/95



165DC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1697 TC= 1(10 75)
A= 364 pD= 902 SR=17.450 RA50= 36.25 DEC50= 18.57 cone= 93.86 clock=272.94
117DC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1697
1:#s= 1 Cs= 8.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 902 rD= 30

10CNPALIMP01

DESIGN G3.2 lisac: 9/26/1997 12:29:37

FILE:P.10CNPALIMP01

TARGET BODY : CALLISTO

MINI:m.10CNPALIMP01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:CTE 97-260/00:19:22.733 +CDS 10:00:0

OBSERVATION:10CNPALIMP01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 902 S= 8.000

DESCRIP:VALHALLA PALIMPEST SPECTROSCOPY

Valhalla Palimpsest Spectroscopy	ACTIVITY ID: 10CNPALIMP01- START TIME: 97-260/00:27:28.066

Activity ID: Orbit 10 Target C Inst N OAPEL PALIMP SeqNo 01 -

Title	Valhalla Palimpsest Spectroscopy			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date 09/17/97	Week 38

Start	CTE+CDS 8:00:0	97-260/00:27:28.066	CTE+000/00:08:05.333
End	CTE+CDS 00000015:00:0	97-260/00:34:32.733	CTE+000/00:15:10.000
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label 10CNPALIMP01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain the highest combined spectral and spatial resolution data of Valhalla's palimpsest. Investigate mineralogy, albedo and composition of Callisto's C9 largest

Data Returned

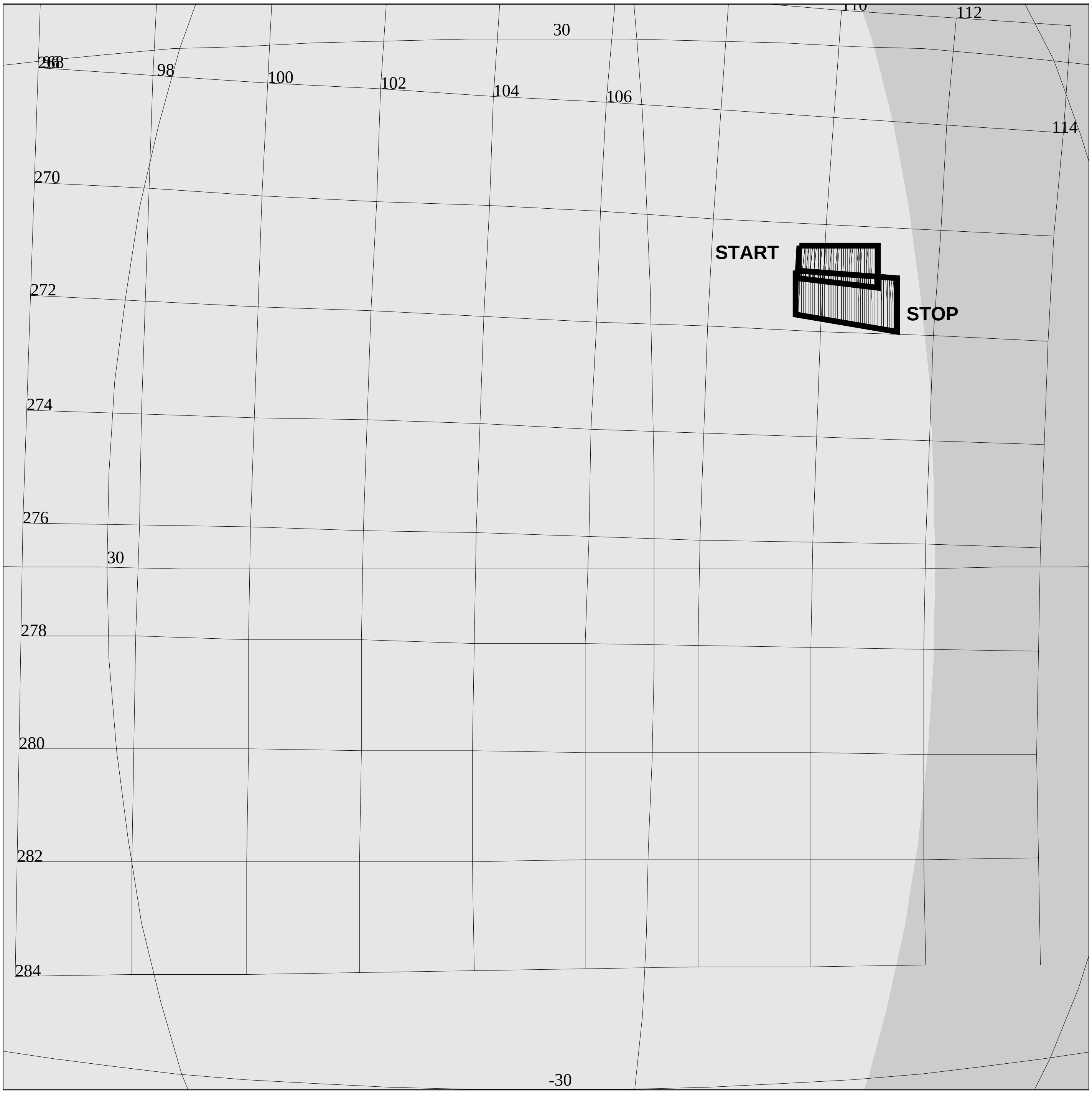
Design Detail

Record Mode: LPU
Instrument mode: LM
Spatial resolution: 0.342 km/nimsel
Instrument gain state: 2
Specrtral resolution: 204 wavelengths
Phase angle: 14.79
Coverage in nimsels:
Bits-to-Ground: 4.4 mbits

Specified area targetting, one scan, NYQUIST scan rate

Long Map (LM), Gain 4, Grating Start 0, MPW, CLM442, CLM360

Galileo Activity Plan Form 08/20/97 15:06:37 rev 6/95



165DD:TT= 0 TMC= 1 C= -2.75 XC= 0.00 BS= 0/3153 TC= 1(16.5 351)
A= 182 pD= 1986 SR=17.450 RA50= 20.40 DEC50= 14.14 cone=109.55 clock=270.74
117DD:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/3153
1:#s= 2 Cs= 19.00 XCs= 0.00 Cr= -19.00 XCr= 7.00 sD= 978 rD= 30

10CNSMTHPL01

TARGET G3.2 lisac: 9/23/1997 11:11: 8

FILE:P.10CNSMTHPL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:CTE 97-260/00:19:22.733 +CDS 18:00:0

OBSERVATION:10CNSMTHPL01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1986 S= 1.500

DESCRIP:CALLISTO SMOOTH PLANE COVERAGE

Callisto Smooth Plain | ACTIVITY ID: 10CNSMTHPL01-
START TIME: 97-260/00:35:33.399

Activity ID: Orbit 10 Target C Inst N OAPEL SMTHPL SeqNo 01 -

Title	Callisto Smooth Plain			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 09/17/97 Week 38

Start	CTE+CDS 00000016:00:0	97-260/00:35:33.399	CTE+000/00:16:10.666
End	CTE+CDS 00000030:00:0	97-260/00:49:42.733	CTE+000/00:30:20.000
Duration	00000014:00:0	000/00:14:09.334	000/00:14:09.334

Top Label 10CNSMTHPL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain compositional information over smooth plain region. This area could possibly be due to volcanic flow/upwelling of subsurface material.

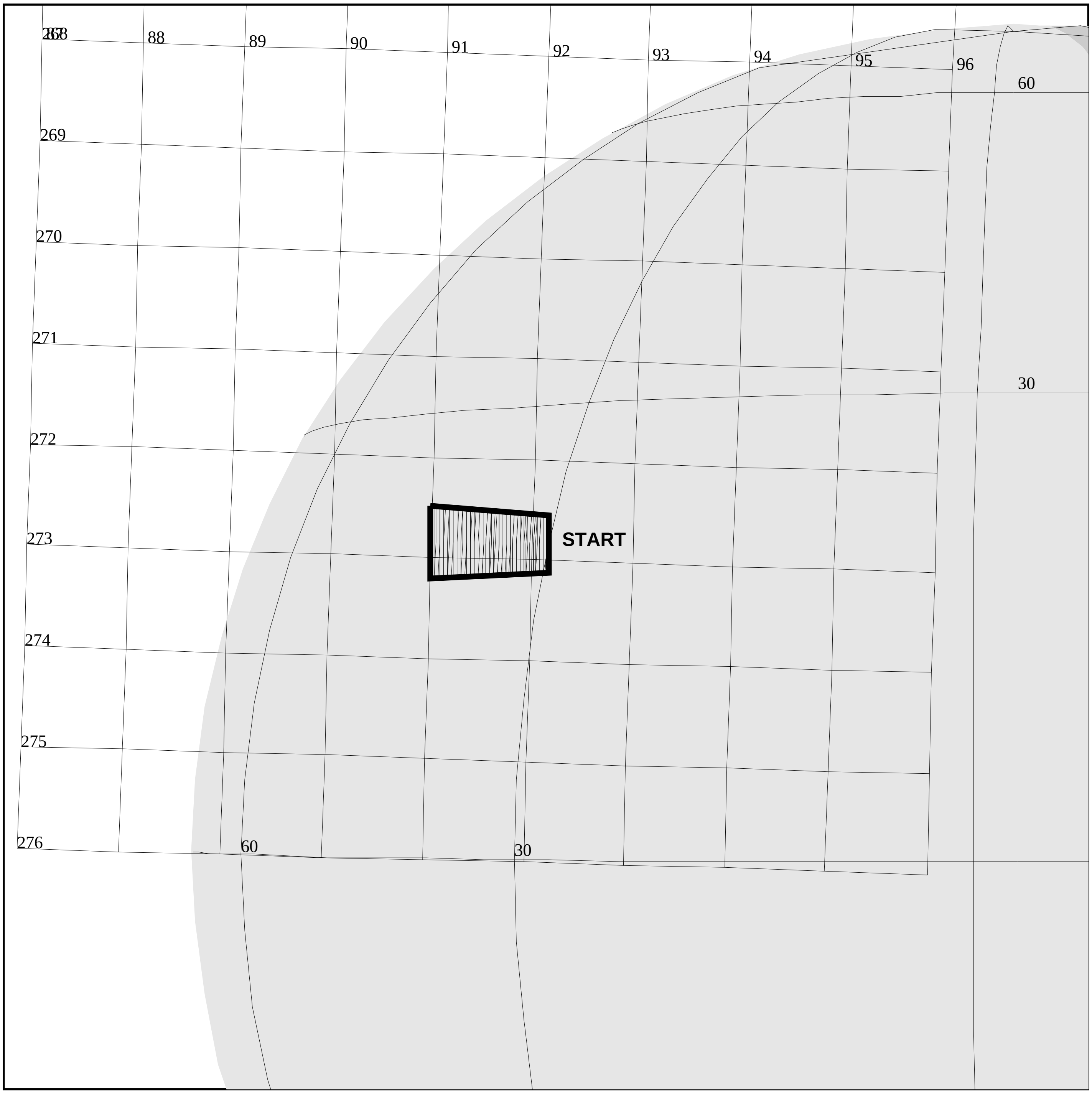
Data Returned

Design Detail

Record Mode: MPW
Instrument mode: FM
Scan Rate:
Resolution: Approximately 5 KM
Gain State: 4
Spectral Resolution: 204 wavelengths
Phase angle: 76.48
Coverage in nimsels:
Bits-to-Ground: 4.4 mbits

Two scans, Nyquist sampling.

Full Map (FM), Gain 4, Grating Start 0, MPW, CFM221, CFM180



165DE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6065 TC= 1(20 30)
A= 364 pD= 1618 SR=17.450 RA50= 37.89 DEC50= 19.28 cone= 92.16 clock=272.83
117DE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6065
1:#s= 1 Cs= -16.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1618 rD= 30

10CNVALHAL01

TARGET G3.2 lisac: 9/23/1997 11:11: 8

FILE:P.10CNVALHAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CTE 97-260/00:19:22.733 +CDS 34:00:0 **BODY PLOT TIME:TARGET-TIME D= 1618 S= 1.500**

OBSERVATION:10CNVALHAL01 **DESCRIP:VALHALLA BASIN/RINGS OBSERVATION**

Valhalla Basin/Rings Observation	ACTIVITY ID: 10CNVALHAL01- START TIME: 97-260/00:50:43.399

Activity ID: Orbit 10 Target C Inst N OAPEL VALHAL SeqNo 01 -

Title	Valhalla Basin/Rings Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/17/97	Week	38

Start	CTE+CDS 00000031:00:0	97-260/00:50:43.399	CTE+000/00:31:20.666
End	CTE+CDS 00000043:00:0	97-260/01:02:51.399	CTE+000/00:43:28.666
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label	10CNVALHAL01-
Bottom Label	

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

Observation Objective

To obtain detailed - highest resolution, spatially and spectrally, data of Valhalla's ring structure, to determine the composition of material at the ring scarp bases and to investigate minor constituents.

Data Returned

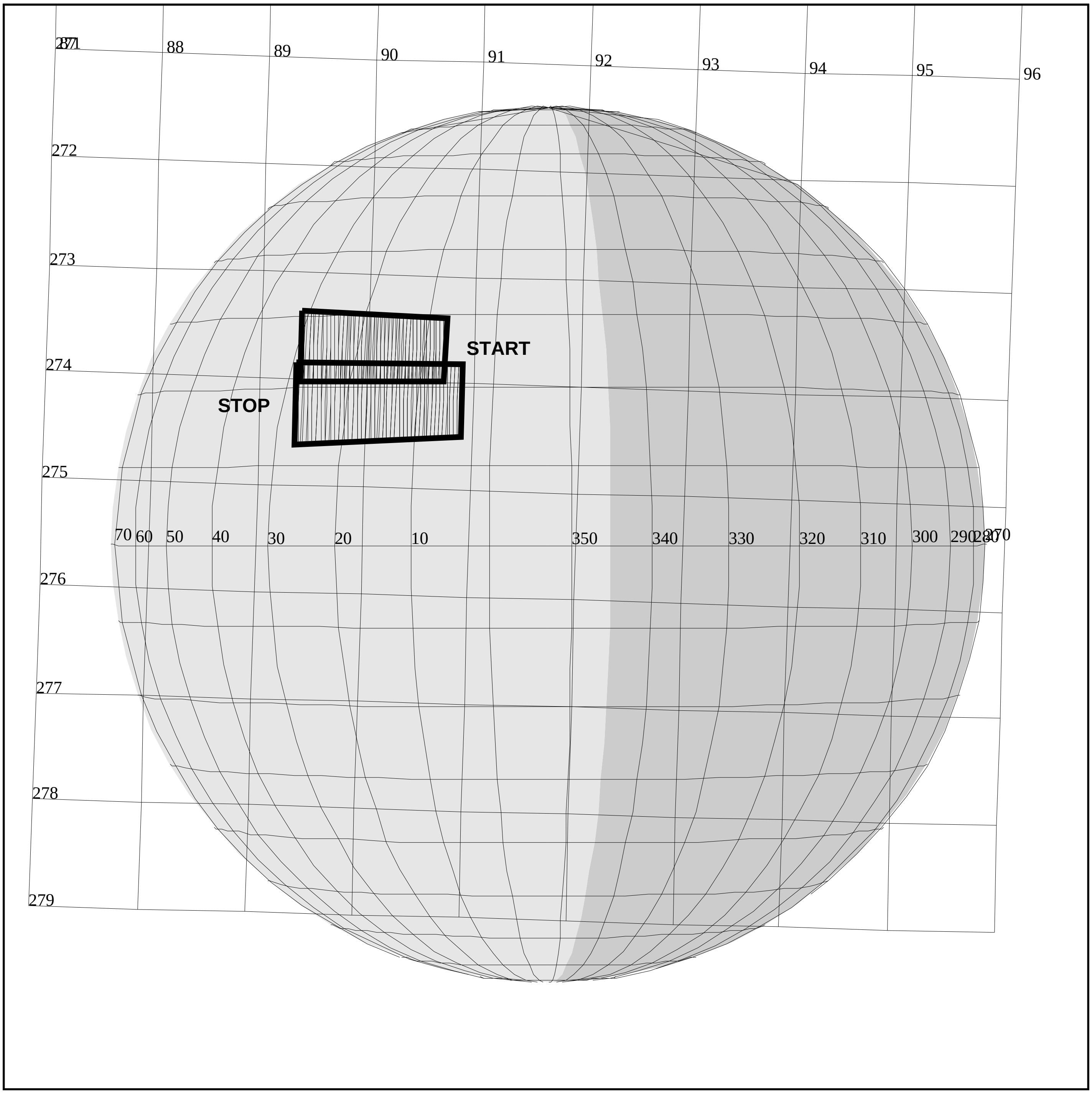
Design Detail

Record Mode: LPU
Instrument mode: LM
Spatially resolution: 6.764 km/nimsel
Instrument gain state: 4
Spectral resolution: 204 wavelengths
Phase angle: 76.48
Coverage in nimsels:
Bits-to-Ground: 4.4 mbits

Specified area targetting, one scan, NYQUIST scan rate.

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM243C, CLM228C

Galileo Activity Plan Form 08/20/97 15:06:37 rev 6/95



165DF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2435 TC= 1(25 7)
A= 728 pD= 4074 SR=17.450 RA50= 39.63 DEC50= 19.00 cone= 90.72 clock=273.69
117DF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2435
1:#s= 2 Cs= -20.00 XCs= 0.00 Cr= 22.00 XCr= 7.00 sD= 2022 rD= 30

10CNCATENA01

TARGET G3.2 lisac: 9/23/1997 11:11: 8

FILE:P.10CNCATENA01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:CTE 97-260/00:19:22.733 +CDS 69:00:0

BODY PLOT TIME:TARGET-TIME D= 4074 S= 0.800

OBSERVATION:10CNCATENA01

DESCRIP:GIPUL CATENA COVERAGE

GIPUL Catena Coverage ACTIVITY ID: 10CNCATENA01-
START TIME: 97-260/01:24:05.399

Activity ID: Orbit 10 Target C Inst N OAPEL CATENA SeqNo 01 -

Title	GIPUL Catena Coverage			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 09/17/97 Week 38

Start	CTE+CDS 00000064:00:0	97-260/01:24:05.399	CTE+000/01:04:42.666
End	CTE+CDS 00000098:00:0	97-260/01:58:28.066	CTE+000/01:39:05.333
Duration	00000034:00:0	000/00:34:22.667	000/00:34:22.667

Top Label 10CNCATENA01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To determine the composition of Callisto's longest crater chain, investigate compositional differences with surrounding surface look for minor constituents.

Data Returned

Design Detail

Record Mode: LPU
Instrument mode: LM
Spatial resolution: 13.25 km/nimsel
Instrument gain state: 4
Spectral resolution: 204 wavelengths
Phase angle: 81. 89
Coverage in nimsels:
Bits-to-Ground 2.62 mbits

Target to specified longitude and latitude to scan in 4 swaths across GIPUL CATENA. NYQUIST SAMPLING, 20% overlap between scans.

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM243C, CLM228C

Galileo Activity Plan Form 08/20/97 15:06:37 rev 6/95

C10 Callisto C/A moveable block	ACTIVITY ID:	10CXMOVBLK02
	START TIME:	97-260/05:26:45.399

Activity ID: Orbit 10 Target C Inst X OAPEL MOVBLK SeqNo 02

Title	C10 Callisto C/A moveable block			Instrument	
Requestor	NIMS-SWG/J.CULWELL	Team	RSSG	Working Group	SWG

Time System CDS Load ID Calendar Date 09/17/97 Week 38

Start	CTE+CDS 00000304:00:0	97-260/05:26:45.399	CTE+000/05:07:22.666
End	CTE+CDS 00000309:00:0	97-260/05:31:48.733	CTE+000/05:12:26.000
Duration	00000005:00:0	000/00:05:03.334	000/00:05:03.334

Top Label
Bottom Label

Plot Key	MSNEV1	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Reserve time to move the callisto c/a observations to be centered on C/A

Design Detail

Galileo Activity Plan Form 08/20/97 15:06:37 rev 6/95

NIMS Software Reload	ACTIVITY ID: 10NNRELOAD01- START TIME: 97-260/05:56:04.733

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	09/17/97	Week	38

Start	CEE+CDS 00000333:00:0	97-260/05:56:04.733	CEE+000/05:36:42.000
End	CEE+CDS 00000343:00:0	97-260/06:06:11.399	CEE+000/05:46:48.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label	10NNRELOAD01-
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

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

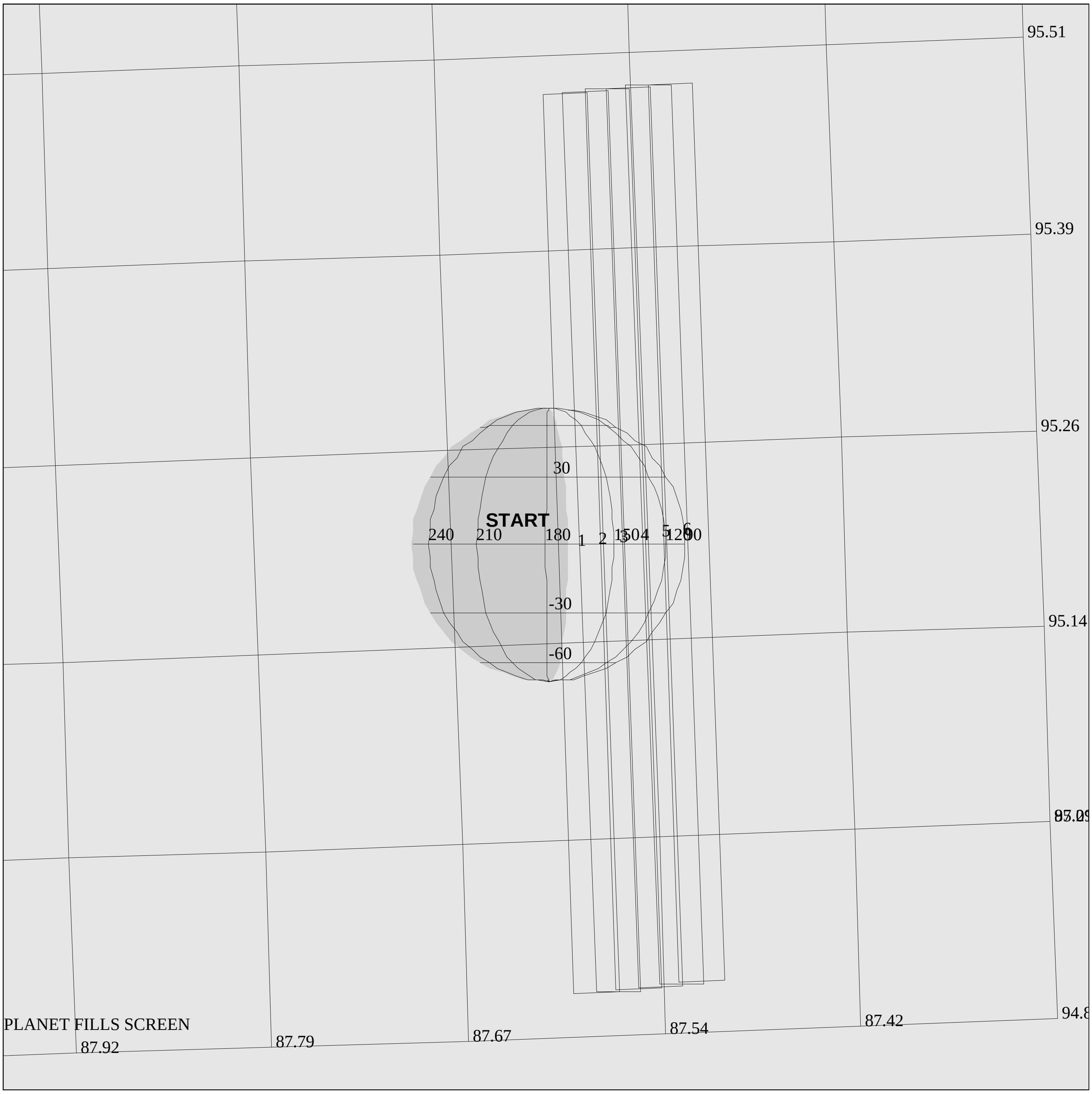
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize 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 08/20/97 15:06:37 rev 6/95



165FZ:TT= 0 TMC= 1 C= -0.34 XC= 0.00 BS= 0/5215 TC= 3
A= 728 pD= 0 SR=17.450 RA50=218.52 DEC50=-16.98 cone= 87.59 clock= 95.20
117FZ:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/5215
1:#s= 1 Cs= -3.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

10ENEUR15_01

DESIGN G3.2 lisac: 9/30/1997 11: 1:11

FILE:P.10ENEUR15_01

TARGET BODY : EUROPA

MINI:m.10ENEUR15_01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:EEE 97-262/05:20:19.933 -CDS 2787:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.250**

OBSERVATION:10ENEUR15_01 **DESCRIP:EUROPA**

NIMS Euroa Observation		ACTIVITY ID:	10ENEUR15_01-
		START TIME:	97-260/06:17:18.600

Activity ID: Orbit 10 Target E Inst N OAPEL EUR15_ SeqNo 01 -

Title	NIMS Euroa Observation			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/17/97 Week 38

Start	EEE-CDS 00002792:00:0	97-260/06:17:18.600	EEE-001/23:03:01.333
End	EEE-CDS 00002769:00:0	97-260/06:40:33.933	EEE-001/22:39:46.000
Duration	00000023:00:0	000/00:23:15.333	000/00:23:15.333

Top Label   10ENEUR15_01-
Bottom Label

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

Observation Objective

This observation is designed to observed Europa beyond 15Rj in Real-Time, to reduce Jupiter radiation environment.

Data Returned

Design Detail

Inst. Mode = LM,
Wavelength return = 102,
Gain State = 4,
Record Mode = LPU.

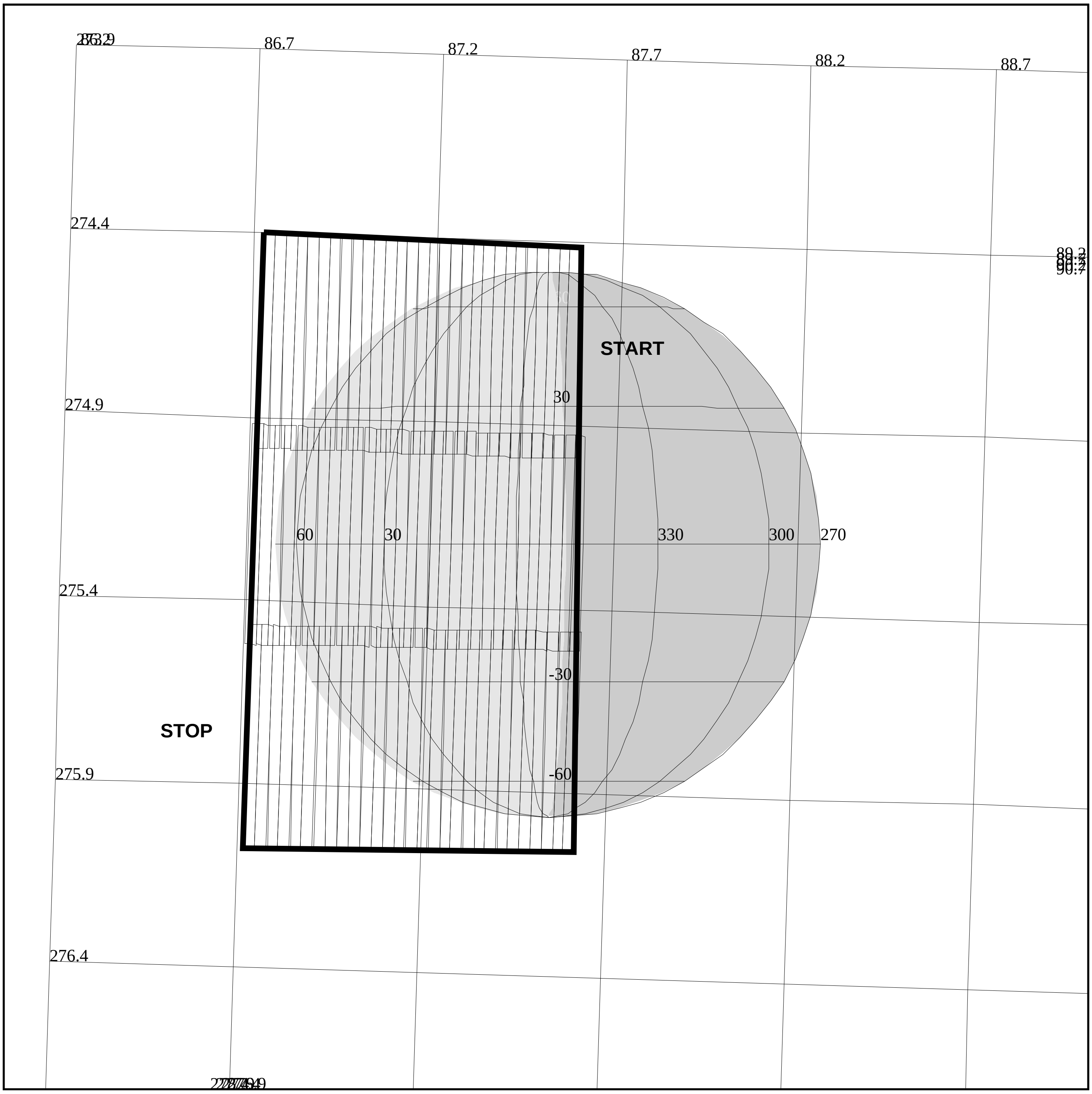
Approximately 4 RIMS of targetting and approximately 16 RIMS of slewing.

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

First 7 Rims slew across the lit disk of Europa.
The following 7 Rims drift back across Europa.

Long Map (LM), Gain 4, Grating Start 0, R/T, ELMRT102

Galileo Activity Plan Form   08/20/97 15:06:38   rev 6/95



165DG:TT= 0 TMC= 1 C= 1.00 XC= -9.10 BS= 0/9765 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 43.11 DEC50= 19.05 cone= 87.61 clock=274.75
117DG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9765
1:#s= 3 Cs= -15.00 XCs= 0.00 Cr= 15.00 XCr= 9.00 sD= 1504 rD= 22

10CNGLOBAL02

TARGET G3.2 lisac: 9/23/1997 11:11: 8

FILE:P.10CNGLOBAL02

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CEE 97-260/00:19:22.733 +CDS 384:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:10CNGLOBAL02 **DESCRIP:CALLISTO GLOBAL COVERAGE**

Callisto Global Coverage		ACTIVITY ID:	10CNGLOBAL02-
		START TIME:	97-260/06:42:35.399

Activity ID: Orbit 10 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	09/17/97	Week 38

Start	CEE+CDS 00000379:00:0	97-260/06:42:35.399	CEE+000/06:23:12.666
End	CEE+CDS 00000410:00:0	97-260/07:13:56.066	CEE+000/06:54:33.333
Duration	00000031:00:0	000/00:31:20.667	000/00:31:20.667

Top Label 10CNGLOBAL02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	190	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 data over all lit longitudes and latitudes, to investigate surface mineralogy and to determine the distribution of compositional units.

Data Returned

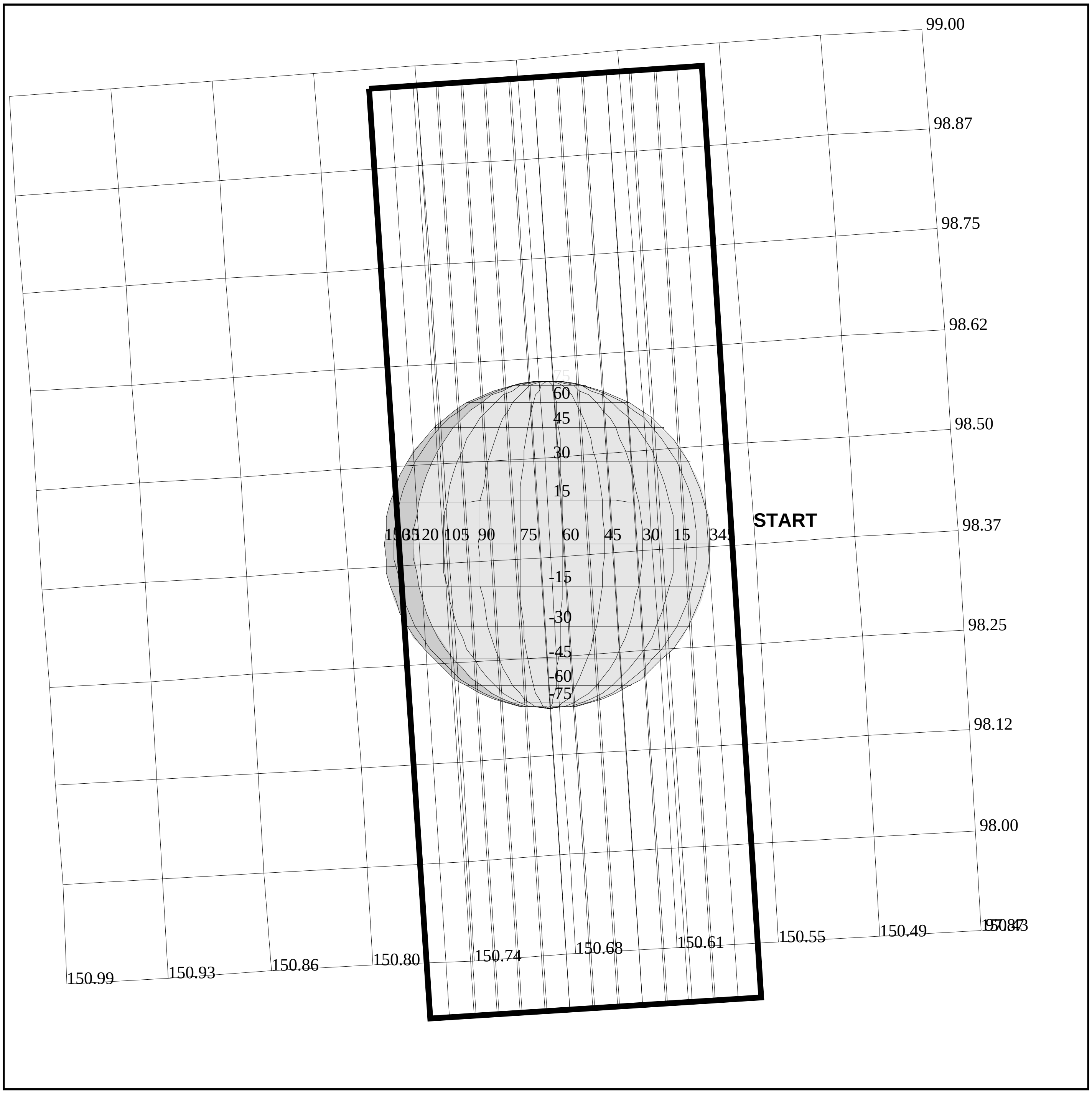
Design Detail

Record Mode: LPU
Instrument mode: LM
Spatial resolution: 100 km/nimsel
Instrument gain state: 4
Spectral resolution: 228 wavelengths
Phase angle: 85.56
Coverage in nimsels:
Bits-to-Ground: 3.5 mbits

Continuous slew mosaic, covering all lit longitudes and latitudes at 6 hrs after C/A.
20% overlap between swaths, 3 swaths to cover lit surface, NYQUIST scan rate.

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM243C, CLM228C

Galileo Activity Plan Form 08/20/97 15:06:38 rev 6/95



165DJ:TT= 0 TMC= 1 C= -1.85 XC= 0.00 BS= 0/0217 TC= 3
A= 546 pD= 348 SR=17.450 RA50=286.02 DEC50=-24.16 cone=150.57 clock= 98.39
117DJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0217
1:#s= 1 Cs= 3.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 328 rD= 2

10INCHEMIS01

DESIGN G3.2 lisac: 9/26/1997 9:59:43

FILE:P.10INCHEMIS01

TARGET BODY : IO

MINI:m.10INCHEMIS01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-262/04:43:55.933 -CDS 1240:00:0

BODY PLOT TIME:TARGET-TIME D= 348 S= 0.300

OBSERVATION:10INCHEMIS01

DESCRIP:MONITORING OF IO’S DAYSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID:	10INCHEMIS01-
	START TIME:	97-261/07:46:06.600

Activity ID: Orbit 10 Target I Inst N OAPEL CHEMIS SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	IEE-CDS 00001244:00:0	97-261/07:46:06.600	IEE-000/20:57:49.333
End	IEE-CDS 00001237:00:0	97-261/07:53:11.267	IEE-000/20:50:44.666
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label   10INCHEMIS01-
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

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

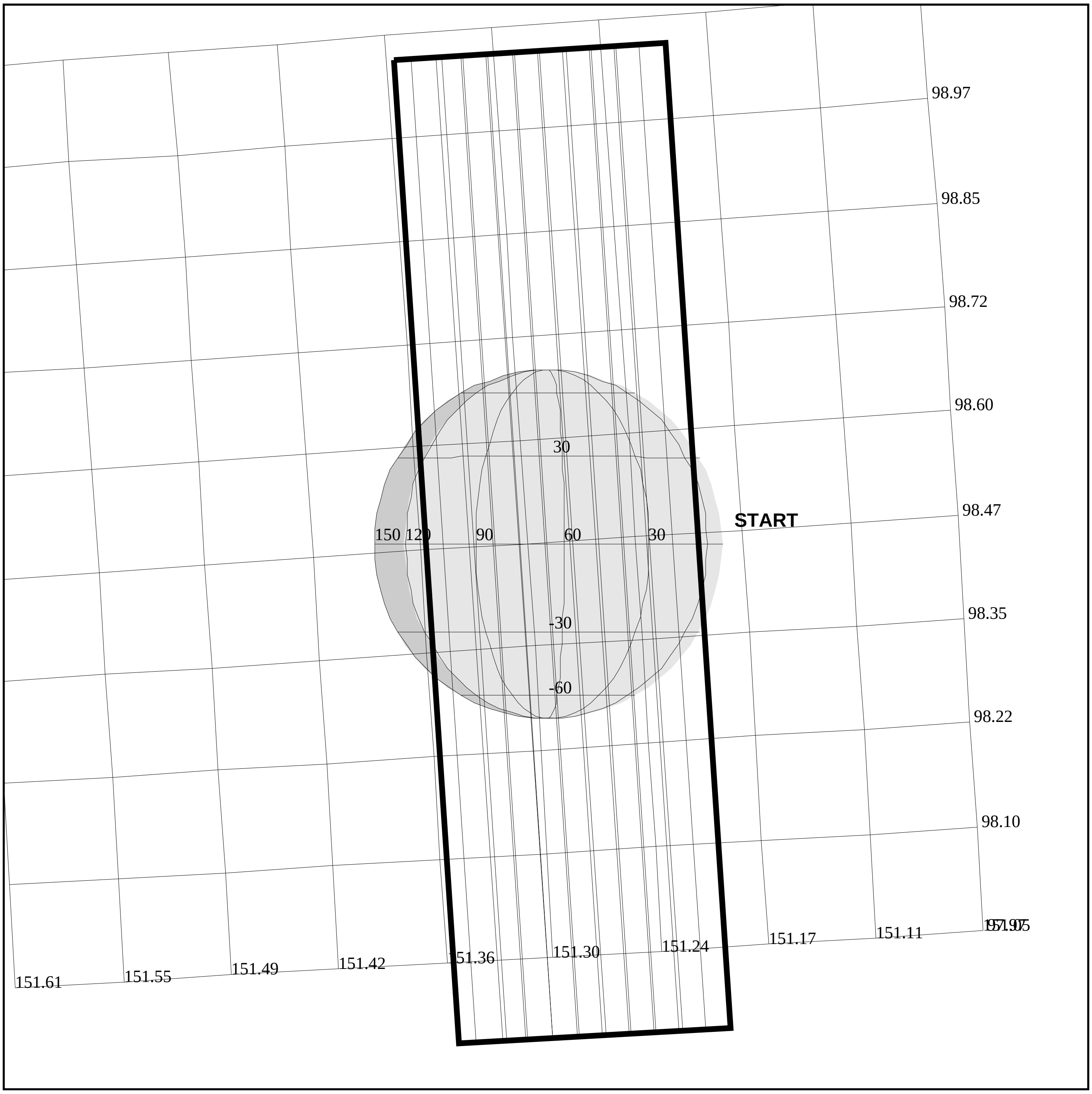
Design Detail

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, 228 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, ILM243C, ILM228C

Galileo Activity Plan Form   08/20/97 15:06:38   rev 6/95



165DK:TT= 0 TMC= 1 C= -1.40 XC= 0.00 BS= 0/1673 TC= 3
A= 546 pD= 248 SR=17.450 RA50=286.72 DEC50=-24.07 cone=151.21 clock= 98.47
117DK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1673
1:#s= 1 Cs= 2.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 248 rD= 30

10INCHEMIS08

DESIGN G3.2 lisac: 9/26/1997 10:21:49

FILE:P.10INCHEMIS08

TARGET BODY : IO

MINI:m.10INCHEMIS08

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-262/04:43:55.933 -CDS 1232:00:0

BODY PLOT TIME:TARGET-TIME D= 248 S= 0.320

OBSERVATION:10INCHEMIS08

DESCRIP:MONITORING OF IO'S NIGHTSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID:	10INCHEMIS08-
	START TIME:	97-261/07:54:11.933

Activity ID: Orbit 10 Target I Inst N OAPEL CHEMIS SeqNo 08 -

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

Time System CDS Load ID Calendar Date 09/18/97 Week 38

Start	IEE-CDS 00001236:00:0	97-261/07:54:11.933	IEE-000/20:49:44.000
End	IEE-CDS 00001230:20:0	97-261/08:00:02.600	IEE-000/20:43:53.333
Duration	00000005:71:0	000/00:05:50.667	000/00:05:50.667

Top Label 10INCHEMIS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	156	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

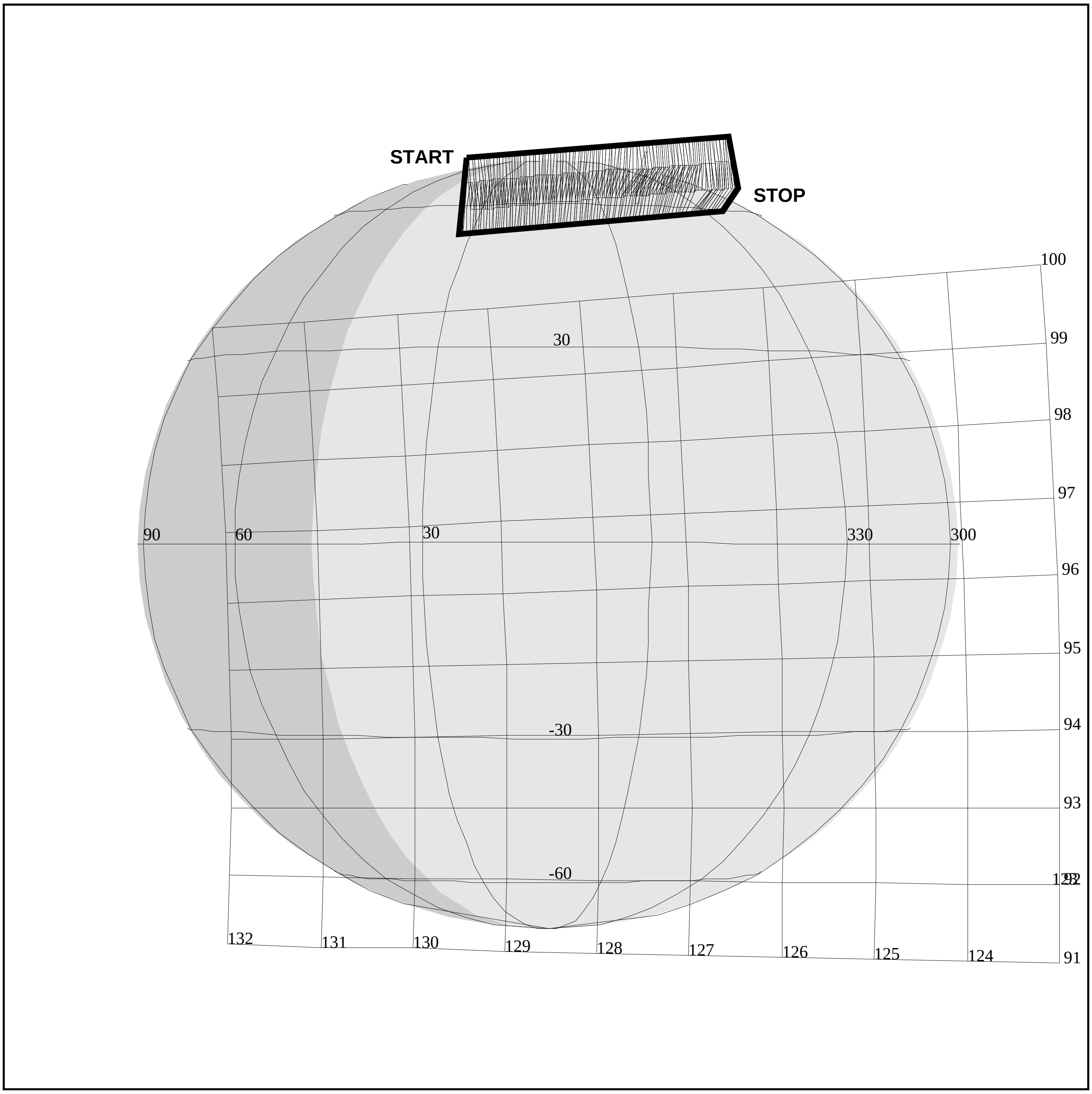
Design Detail

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

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442M, ILM228

Galileo Activity Plan Form 08/20/97 15:06:38 rev 6/95



165DL:TT= 0 TMC= 1 C= 29.00 XC= 4.00 BS= 0/6587 TC= 1(65 350)
A= 546 pD= 0 SR=17.450 RA50=262.82 DEC50=-21.23 cone=129.09 clock=101.75
117DL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6587
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 49.00 XCr= -4.00 sD= 1200 rD= 40

10JNNPOLEM06

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNNPOLEM06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 875:00:0

OBSERVATION:10JNNPOLEM06

THINNING:NIM 2

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

DESCRIP:Jupiter_North_Pole_Map_pt_

Jupiter North Pole Map prt 6 | **ACTIVITY ID: 10JNNPOLEM06-**
START TIME: 97-261/08:21:29.933

Activity ID: Orbit 10 Target J Inst N OAPEL NPOLEM SeqNo 06 -

Title	Jupiter North Pole Map prt 6			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 09/18/97	Week 38

Start	JEE-CDS 00000879:00:0	97-261/08:21:29.933	JEE-000/14:48:46.000
End	JEE-CDS 00000861:00:0	97-261/08:39:41.933	JEE-000/14:30:34.000
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNNPOLEM06-
Bottom Label	

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

Observation Objective

One of six maps of the North Polar region, examining haze vertical and spatial structure over all longitudes at North Polar latitudes. Observation obtained with minimum-airmass longitude near 350 degrees west longitude. North Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A, (note: territory covered in feature track OAPELS FNP04102 and FNP04103 completes the longitudinal coverage).

Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on North Pole at 350 degrees west longitude, 65 degrees north latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT04B

Galileo Activity Plan Form 08/20/97 15:06:38 rev 6/95

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NIMS Software Reload

ACTIVITY ID: 10NNRELOAD02-
START TIME: 97-261/09:08:00.600

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS	00000833:00:0	97-261/09:08:00.600	JEE-000/14:02:15.333
End	JEE-CDS	00000823:00:0	97-261/09:18:07.267	JEE-000/13:52:08.666
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 10NNRELOAD02-
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

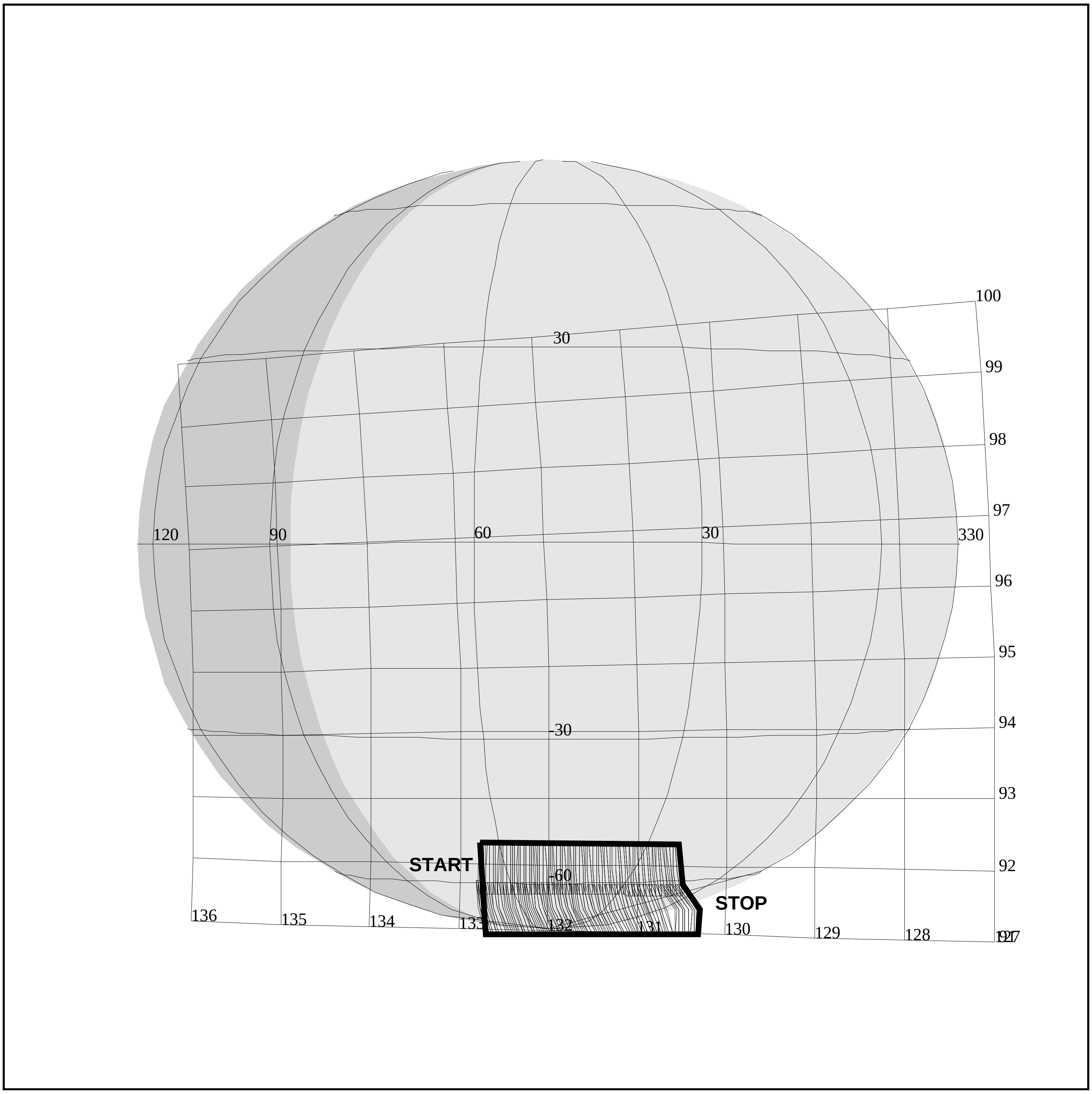
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload 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 reinitialize 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.



165DM:TT= 0 TMC= 1 C= 35.00 XC= 5.00 BS= 0/8599 TC= 1(-65 15)
A= 546 pD= 0 SR=17.450 RA50=266.33 DEC50=-28.88 cone=132.78 clock= 91.92
117DM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8599
1:#s= 2 Cs= -36.40 XCs= 0.00 Cr= 40.00 XCr= -8.00 sD= 1000 rD= 60

10JNSPOLEM08

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPOLEM08

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 -CDS 809:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNSPOLEM08 **DESCRIP:Jupiter_South_Pole_Map_pt_8**

Jupiter South Pole Map prt 8	ACTIVITY ID: 10JNSPOLEM08- START TIME: 97-261/09:28:13.933

Activity ID: Orbit 10 Target J Inst N OAPEL SPOLEM SeqNo 08 -

Title	Jupiter South Pole Map prt 8			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week 38

Start	JEE-CDS 00000813:00:0	97-261/09:28:13.933	JEE-000/13:42:02.000
End	JEE-CDS 00000797:00:0	97-261/09:44:24.600	JEE-000/13:25:51.333
Duration	00000016:00:0	000/00:16:10.667	000/00:16:10.667

Top Label 10JNSPOLEM08-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of eight maps of the South Polar region, examining haze vertical and spatial structure over all longitudes at South Polar latitudes. Observation obtained with minimum-airmass longitude near 15 degrees west longitude. South Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A.

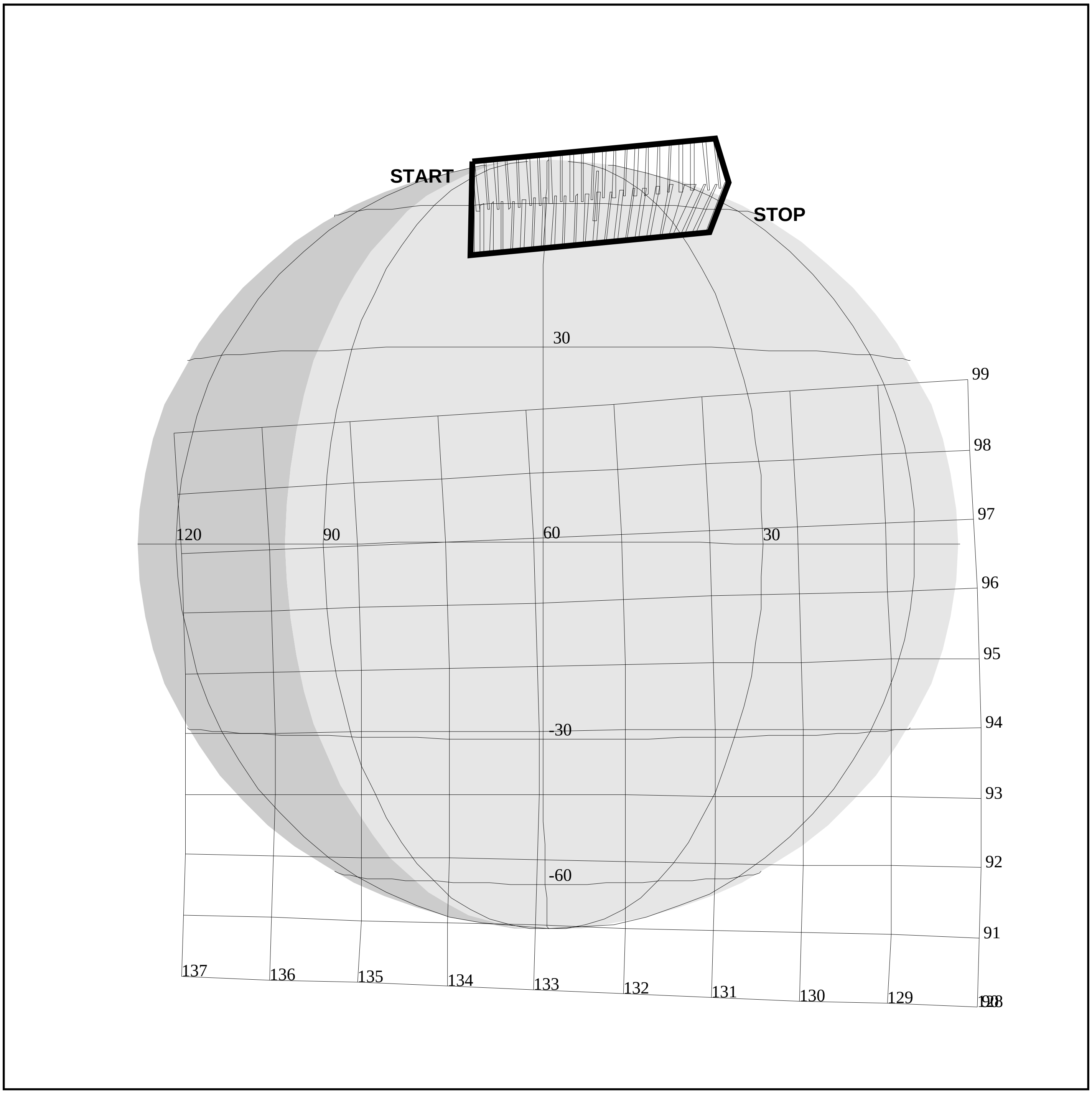
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 15 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT04B

Galileo Activity Plan Form 08/20/97 15:06:38 rev 6/95



165DN:TT= 0 TMC= 1 C= 30.00 XC= 4.00 BS= 0/1511 TC= 1(65 35)
A= 546 pD= 0 SR=17.450 RA50=267.46 DEC50=-21.18 cone=133.38 clock=102.54
117DN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1511
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 49.00 XCr= -8.00 sD= 1200 rD= 40

10JNNPOLEM01

DESIGN G3.2 lisac: 9/26/1997 12:25:12

FILE:P.10JNNPOLEM01

CENTRAL BODY:JUPITER III

MINI:m.10JNNPOLEM01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 793:00:0

OBSERVATION:10JNNPOLEM01

THINNING:NIM 2

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

DESCRIP:Jupiter_North_Pole_Map_pt_1

Jupiter North Pole Map prt 1		ACTIVITY ID:	10JNNPOLEM01-
		START TIME:	97-261/09:44:24.600

Activity ID: Orbit 10 Target J Inst N OAPEL NPOLEM SeqNo 01 -

Title	Jupiter North Pole Map prt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000797:00:0	97-261/09:44:24.600	JEE-000/13:25:51.333
End	JEE-CDS 00000779:00:0	97-261/10:02:36.600	JEE-000/13:07:39.333
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNNPOLEM01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of six maps of the North Polar region, examining haze vertical and spatial structure over all longitudes at North Polar latitudes. Observation obtained with minimum-airmass longitude near 35 degrees west longitude. North Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A, (Note: territory covered in feature track OAPELS FNP04102 and FNP04103 completes the longitudinal coverage).

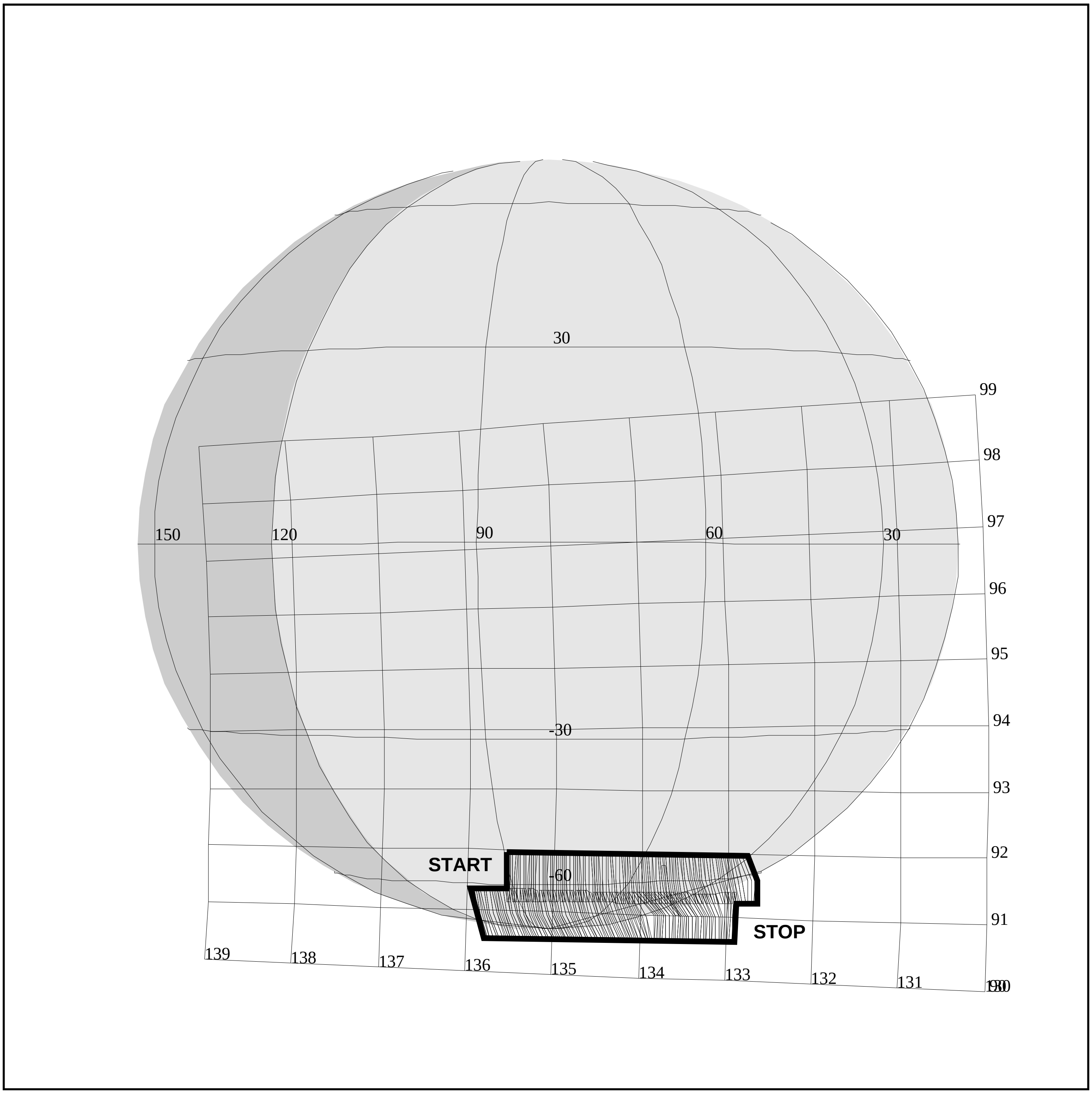
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on North Pole at 35 degrees west longitude, 65 degrees north latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT04B

Galileo Activity Plan Form   08/20/97 15:06:38   rev 6/95



165DO:TT= 0 TMC= 1 C= 22.00 XC= 4.00 BS= 0/8609 TC= 1(-65 60)
A= 546 pD= 0 SR=17.450 RA50=269.50 DEC50=-29.08 cone=135.55 clock= 91.57
117DO:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8609
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 55.00 XCr= -8.00 sD= 1200 rD= 40

10JNSPOLEM01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPOLEM01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 754:00:0

OBSERVATION:10JNSPOLEM01

THINNING:NIM 2

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

DESCRIP:Jupiter_South_Pole_Map_pt_1

Jupiter South Pole Map prt 1 **ACTIVITY ID: 10JNSPOLEM01-**
START TIME: 97-261/10:23:50.600

Activity ID: Orbit 10 Target J Inst N OAPEL SPOLEM SeqNo 01 -

Title	Jupiter South Pole Map prt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97 Week 38

Start	JEE-CDS 00000758:00:0	97-261/10:23:50.600	JEE-000/12:46:25.333
End	JEE-CDS 00000740:00:0	97-261/10:42:02.600	JEE-000/12:28:13.333
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNSPOLEM010
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of eight maps of the South Polar region, examining haze vertical and spatial structure over all longitudes at South Polar latitudes. Observation obtained with minimum-airmass longitude near 60 degrees west longitude. South Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A.

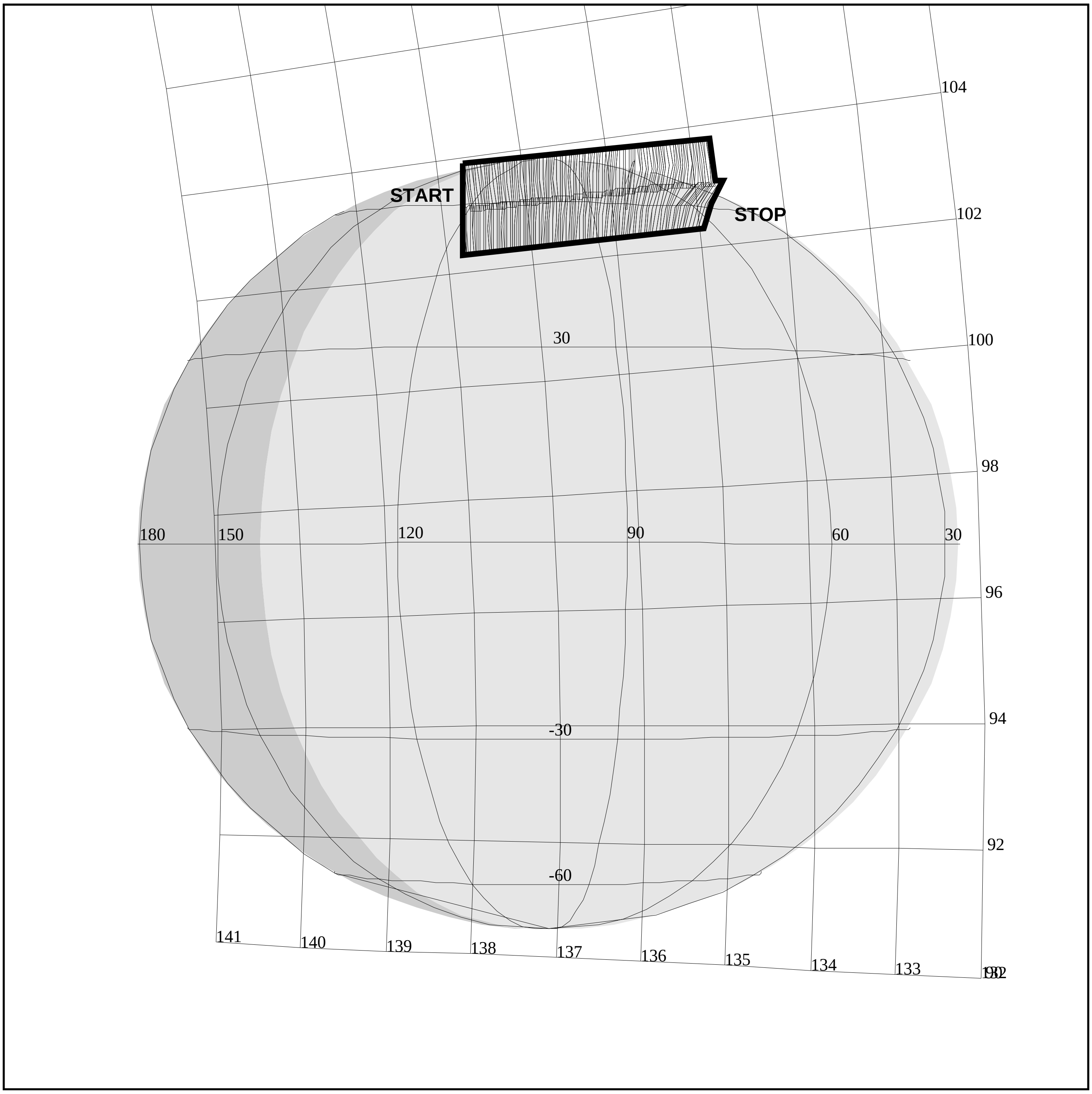
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 60 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

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

Galileo Activity Plan Form 08/20/97 15:06:39 rev 6/95



165DP:TT= 0 TMC= 1 C= 30.00 XC= 4.00 BS= 0/4979 TC= 1(65 80)
A= 546 pD= 0 SR=17.450 RA50=272.12 DEC50=-20.98 cone=137.68 clock=103.47
117DP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4979
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 49.00 XCr= -8.00 sD= 1200 rD= 40

10JNNPOLEM02

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNNPOLEM02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 719:00:0

OBSERVATION:10JNNPOLEM02

THINNING:NIM 2

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

DESCRIP:Jupiter_North_Pole_Map_pt_2

Jupiter North Pole Map prt 2		ACTIVITY ID:	10JNNPOLEM02-
		START TIME:	97-261/10:59:13.933

Activity ID: Orbit 10 Target J Inst N OAPEL NPOLEM SeqNo 02 -

Title	Jupiter North Pole Map prt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000723:00:0	97-261/10:59:13.933	JEE-000/12:11:02.000
End	JEE-CDS 00000705:00:0	97-261/11:17:25.933	JEE-000/11:52:50.000
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNNPOLEM02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of six maps of the North Polar region, examining haze vertical and spatial structure over all longitudes at North Polar latitudes. Observation obtained with minimum-airmass longitude near 80 degrees west longitude. North Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A, (Note: territory covered in feature track OAPELS FNP04102 and FNP04103 completes the longitudinal coverage).

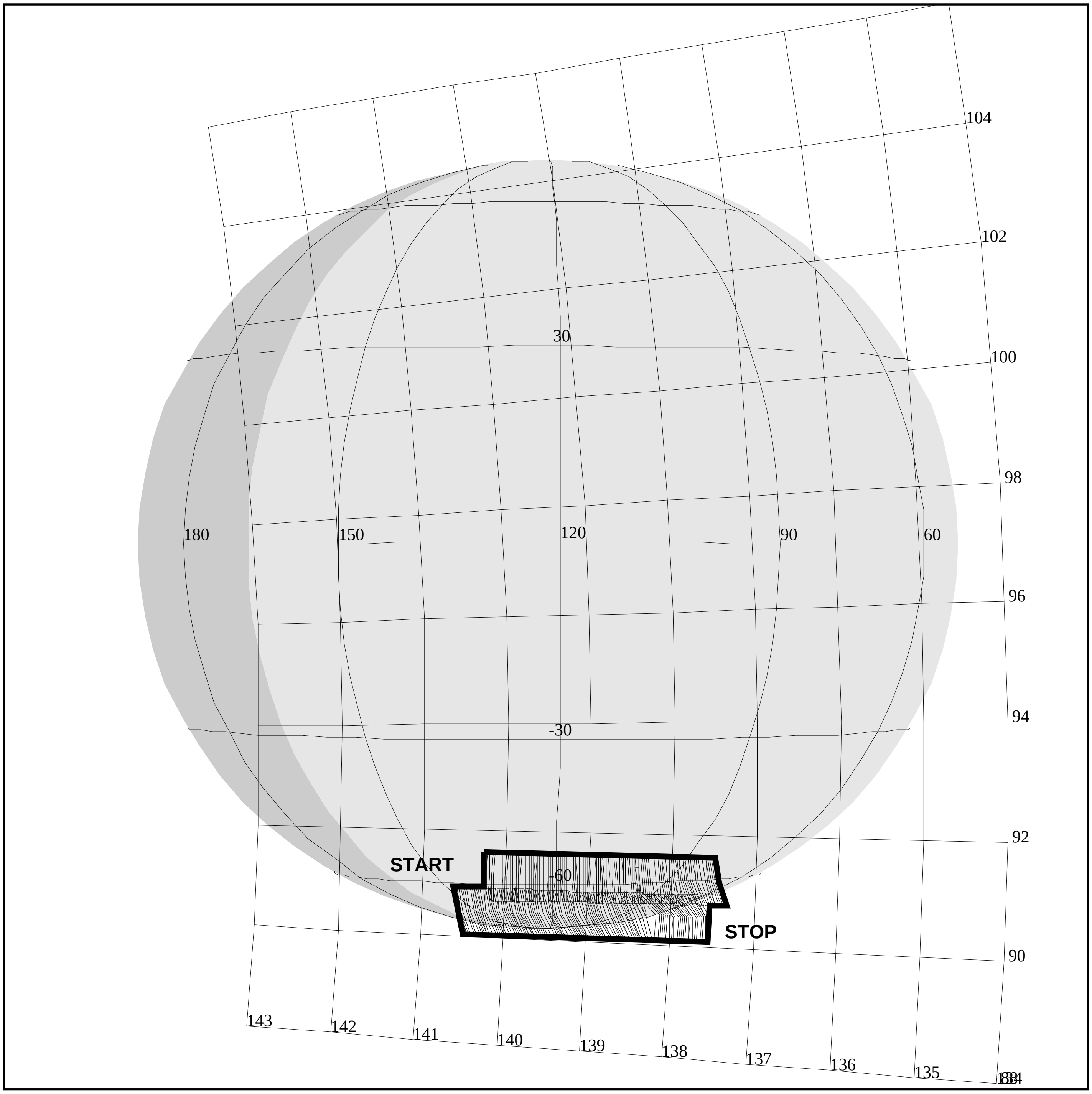
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on North Pole at 80 degrees west longitude, 65 degrees north latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT04B

Galileo Activity Plan Form   08/20/97 15:06:39   rev 6/95



165DQ:TT= 0 TMC= 1 C= 25.00 XC= 4.00 BS= 0/2077 TC= 1(-65 105)
A= 546 pD= 0 SR=17.450 RA50=274.90 DEC50=-29.08 cone=140.26 clock= 91.13
117DQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2077
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 55.00 XCr= -8.00 sD= 1200 rD= 40

10JNSPOLEM02

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPOLEM02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 -CDS 680:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNSPOLEM02 **DESCRIP:Jupiter_South_Pole_Map_pt_2**

Jupiter South Pole Map prt 2		ACTIVITY ID:	10JNSPOLEM02-
		START TIME:	97-261/11:38:39.933

Activity ID: Orbit 10 Target J Inst N OAPEL SPOLEM SeqNo 02 -

Title	Jupiter South Pole Map prt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97 Week 38

Start	JEE-CDS 00000684:00:0	97-261/11:38:39.933	JEE-000/11:31:36.000
End	JEE-CDS 00000666:00:0	97-261/11:56:51.933	JEE-000/11:13:24.000
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNSPOLEM02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of eight maps of the South Polar region, examining haze vertical and spatial structure over all longitudes at South Polar latitudes. Observation obtained with minimum-airmass longitude near 105 degrees west longitude. South Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A.

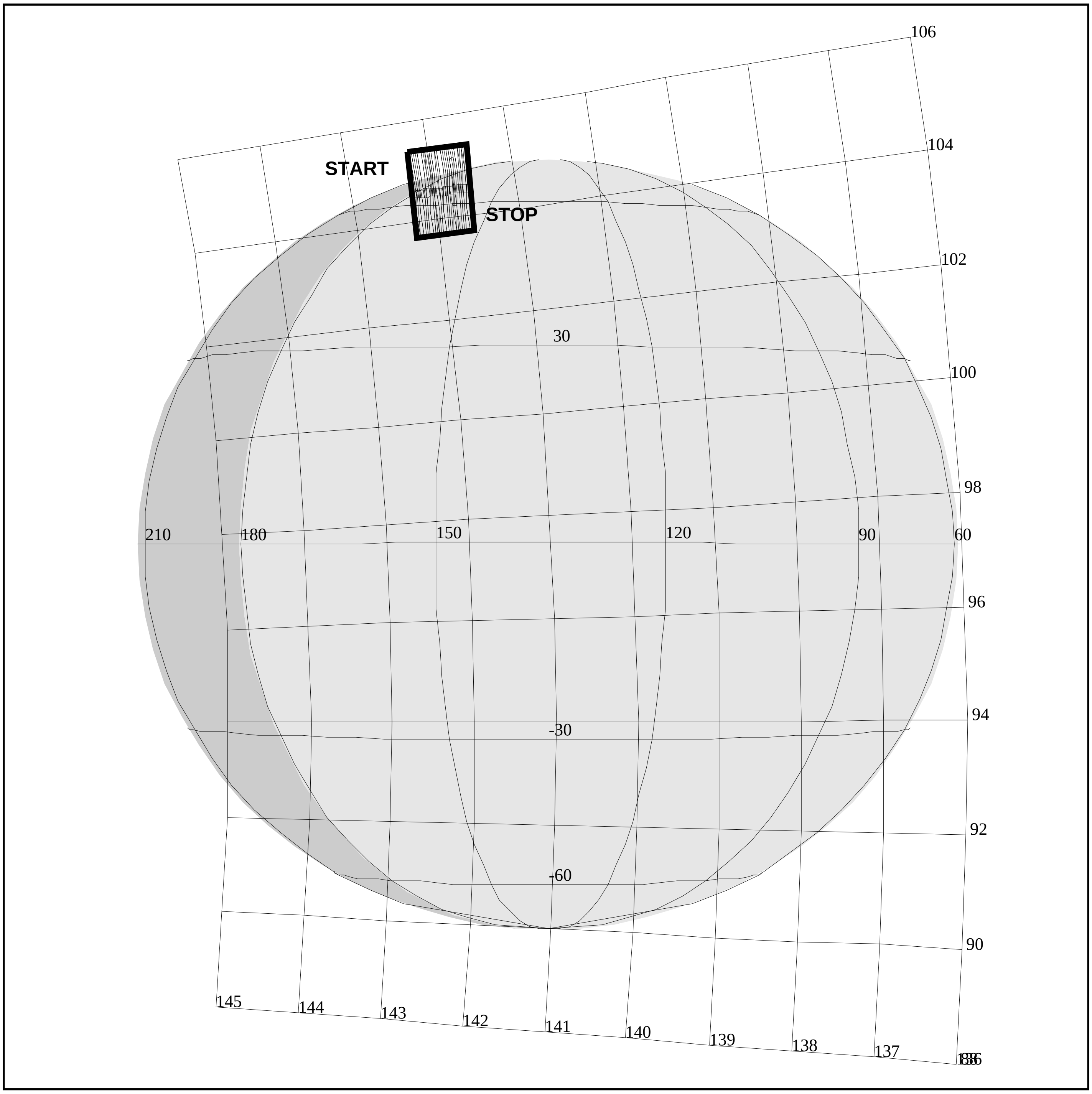
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 105 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

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

Galileo Activity Plan Form   08/20/97 15:06:39   rev 6/95



165DR:TT= 0 TMC= 1 C= 6.00 XC= 4.00 BS= 0/6627 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50=277.08 DEC50=-20.46 cone=142.25 clock=104.93
117DR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6627
1:#s= 2 Cs= -10.80 XCs= 0.00 Cr= 12.00 XCr= -8.00 sD= 300 rD= 40

10JNFEA04101

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA04101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 655:00:0

OBSERVATION:10JNFEA04101

THINNING:NIM 2

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

DESCRIP:Jup_Fea_trk_41_deg_phase_01

Jupiter Feature Track 41 deg phase pt 1	ACTIVITY ID:	10JNFEA04101-	
	START TIME:	97-261/12:02:55.933	

Activity ID: Orbit 10 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	09/18/97	Week	38

Start	JEE-CDS 00000660:00:0	97-261/12:02:55.933	JEE-000/11:07:20.000
End	JEE-CDS 00000651:00:0	97-261/12:12:01.933	JEE-000/10:58:14.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label   10JNFEA04101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

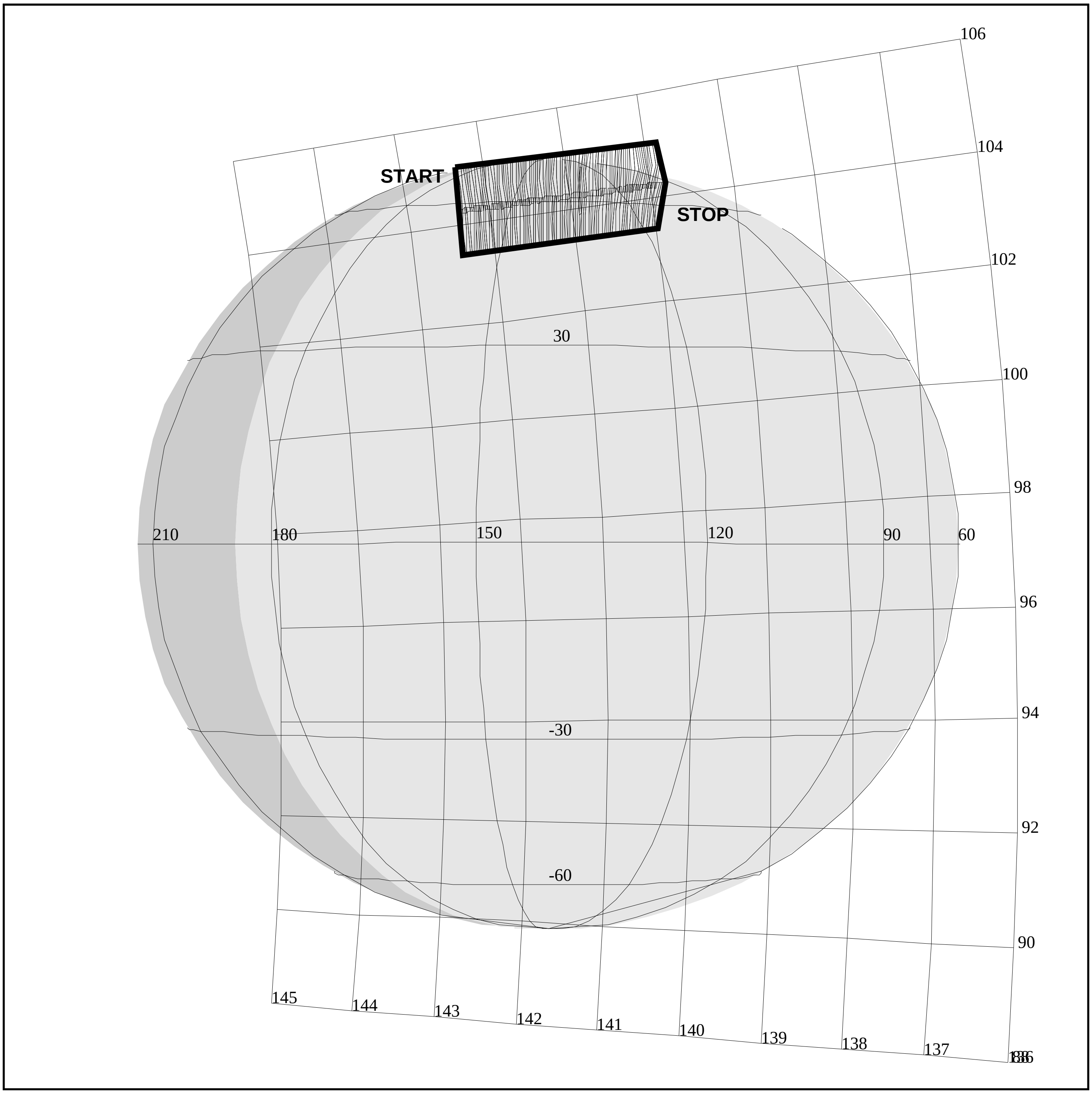
One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the first of three observations obtained on a rotation with phase angle approximately 41 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with North Polar Auroral zone feature near the terminator, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 0.76 million KM,NIMS IFOV (NIMSel) = 380 KM;
1 X 2 mosaic covers 7600 X 13680 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.19762 MBTG in 19 colors, and using 0.00739 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT04B



165DS:TT= 0 TMC= 1 C= 30.00 XC= 4.00 BS= 0/8447 TC= 1(65 125)
A= 546 pD= 0 SR=17.450 RA50=277.16 DEC50=-20.61 cone=142.34 clock=104.70
117DS:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8447
1:#s= 2 Cs= -37.20 XCs= 0.00 Cr= 41.00 XCr= -8.00 sD= 1018 rD= 40

10JNNPOLEM03

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNNPOLEM03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 645:00:0

OBSERVATION:10JNNPOLEM03

THINNING:NIM 2

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

DESCRIP:Jupiter_North_Pole_Map_pt_3

Jupiter North Pole Map prt 3 — ACTIVITY ID: 10JNNPOLEM03- — START TIME: 97-261/12:14:03.267

Activity ID: Orbit 10 Target J Inst N OAPEL NPOLEM SeqNo 03 -

Title	Jupiter North Pole Map prt 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000649:00:0	97-261/12:14:03.267	JEE-000/10:56:12.666
End	JEE-CDS 00000631:00:0	97-261/12:32:15.267	JEE-000/10:38:00.666
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNNPOLEM03-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of six maps of the North Polar region, examining haze vertical and spatial structure over all longitudes at North Polar latitudes. Observation obtained with minimum-airmass longitude near 125 degrees west longitude. North Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A, (Note: territory covered in feature track OAPELS FNP04102 and FNP04103 completes the longitudinal coverage).

Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on North Pole at 125 degrees west longitude, 65 degrees north latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

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

Galileo Activity Plan Form — 08/20/97 15:06:39 — rev 6/95

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NIMS Health Observation No. 1		ACTIVITY ID:	10NNHEALTH01-
		START TIME:	97-261/12:33:15.933

Activity ID: Orbit 10 Target N Inst N OAPEL HEALTH SeqNo 01 -

Title	NIMS Health Observation No. 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000630:00:0	97-261/12:33:15.933	JEE-000/10:37:00.000
End	JEE-CDS 00000627:00:0	97-261/12:36:17.933	JEE-000/10:33:58.000
Duration	00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label	10NNHEALTH01-
Bottom Label	

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

Observation Objective

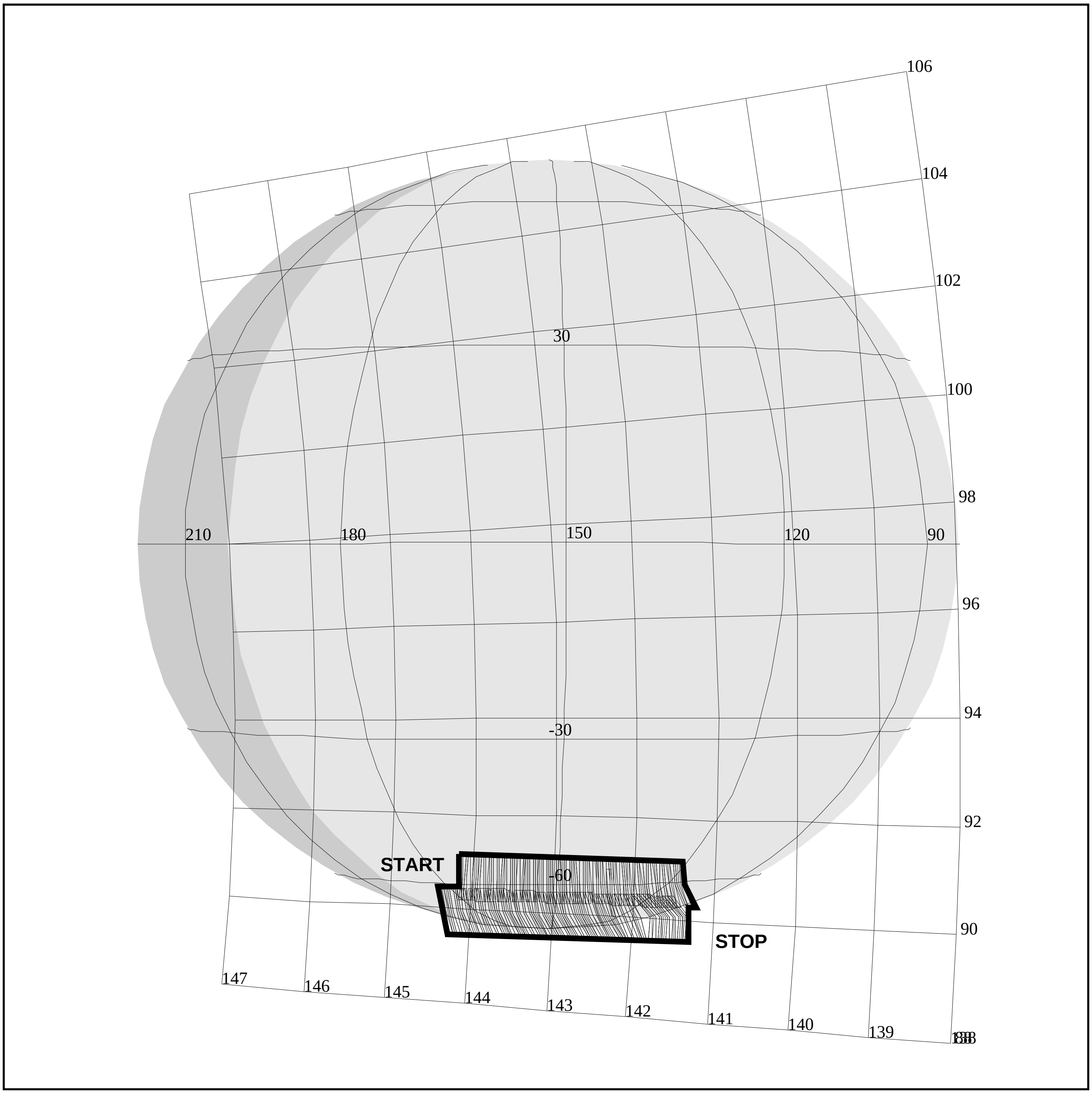
Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright anbd dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Design Detail

No scan platform commanding. The scan platform is at the enfd of the slew of the previous observation:

Long Map (LM), Gain 2, Grating Start 0, R/T, RTRCVY3

Galileo Activity Plan Form 08/20/97 15:06:39 rev 6/95



165DU:TT= 0 TMC= 1 C= 25.00 XC= 4.00 BS= 0/2269 TC= 1(-65 145)
A= 546 pD= 0 SR=17.450 RA50=279.40 DEC50=-28.94 cone=144.19 clock= 90.68
117DU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2269
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 53.00 XCr= -8.00 sD= 1200 rD= 40

10JNSPOLEM03

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPOLEM03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-261/23:10:15.933 -CDS 624:00:0

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

OBSERVATION:10JNSPOLEM03

DESCRIP:Jupiter_South_Pole_Map_pt_3

Jupiter South Pole Map prt 3	ACTIVITY ID: 10JNSPOLEM03- START TIME: 97-261/12:36:17.933

Activity ID: Orbit 10 Target J Inst N OAPEL SPOLEM SeqNo 03 -

Title	Jupiter South Pole Map prt 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 09/18/97 Week 38

Start	JEE-CDS 00000627:00:0	97-261/12:36:17.933	JEE-000/10:33:58.000
End	JEE-CDS 00000610:00:0	97-261/12:53:29.267	JEE-000/10:16:46.666
Duration	00000017:00:0	000/00:17:11.334	000/00:17:11.334

Top Label 10JNSPOLEM03-
Bottom Label

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

Observation Objective

One of eight maps of the South Polar region, examining haze vertical and spatial structure over all longitudes at South Polar latitudes. Observation obtained with minimum-airmass longitude near 145 degrees west longitude. South Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A.

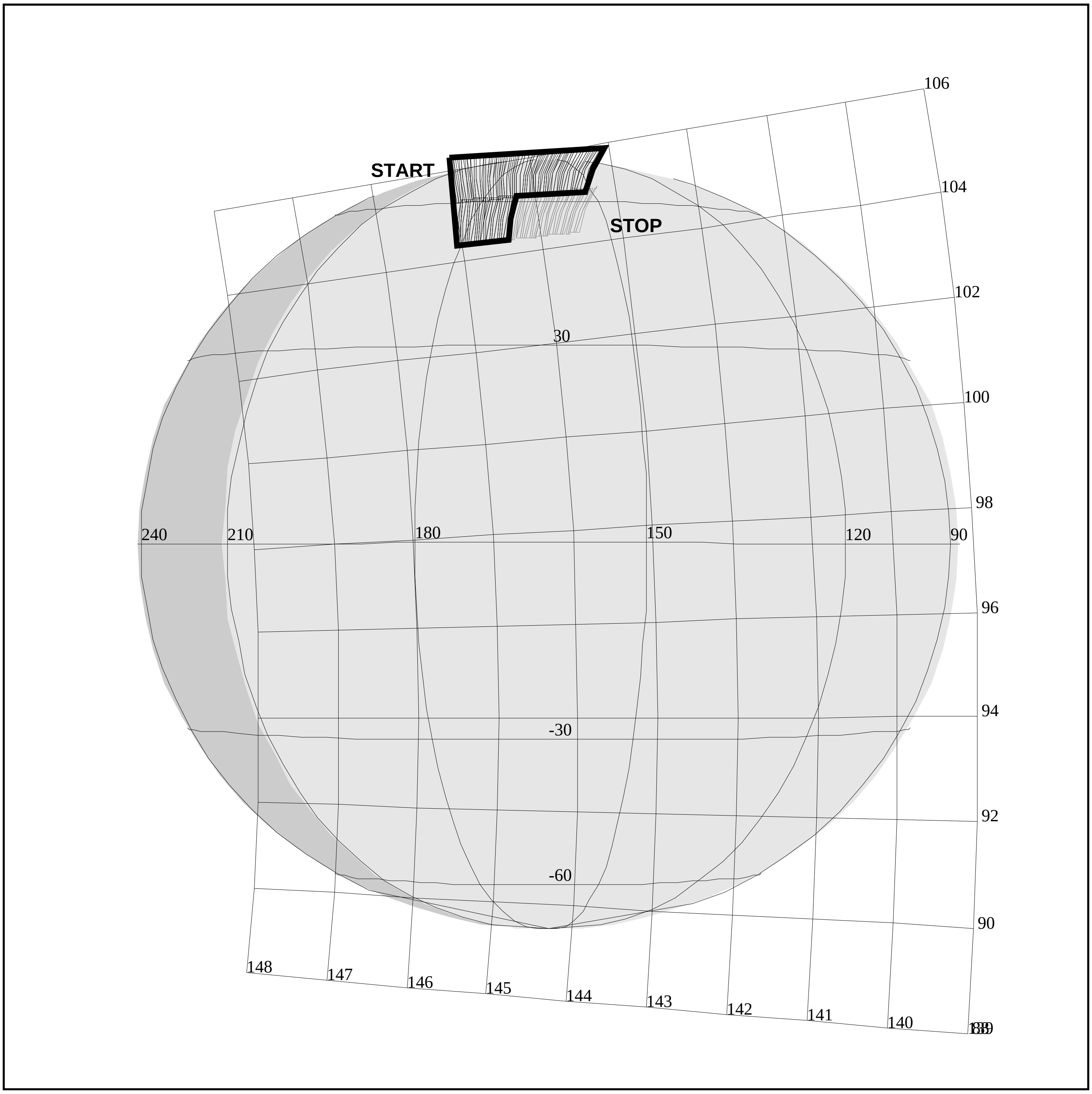
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 145 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT04B

Galileo Activity Plan Form 08/20/97 15:06:39 rev 6/95



165DV:TT= 0 TMC= 1 C= 15.00 XC= 4.00 BS= 0/5727 TC= 1(65 170)
A= 182 pD= 0 SR=17.450 RA50=280.03 DEC50=-20.18 cone=144.99 clock=105.78
117DV:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5727
1:#s= 2 Cs= -17.30 XCs= 0.00 Cr= 27.00 XCr= -7.00 sD= 2600 rD= 52

10JNNPAURD01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNNPAURD01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-261/23:10:15.933 -CDS 605:00:0

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

OBSERVATION:10JNNPAURD01

DESCRIP:Jup_North_Pole_Aur_Day_01

Jupiter North Pole Aurora Daytime prt 1	ACTIVITY ID:	10JNNPAURD01-	
	START TIME:	97-261/12:56:31.267	

Activity ID: Orbit 10 Target J Inst N OAPEL NPAURD SeqNo 01 -

Title	Jupiter North Pole Aurora Daytime prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID		Calendar Date 09/18/97	Week 38

Start	JEE-CDS 00000607:00:0	97-261/12:56:31.267	JEE-000/10:13:44.666
End	JEE-CDS 00000576:00:0	97-261/13:27:51.933	JEE-000/09:42:24.000
Duration	00000031:00:0	000/00:31:20.666	000/00:31:20.666

Top Label	10JNNPAURD01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	181	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

First of three specific North Pole Aurora maps covering the North Polar Auroral feature. H3+ and other emissions imaged near 3-4 microns over north pole. This map centered near 170 degrees west longitude, 65 degrees north latitude. Forty (40) wavelengths sent to ground, using NIMS wavelength table JAU40A.

Data Returned

Design Detail

Long map, Nyquist-sampled observation of 2.5 X 2 (100 X 40 NIMSel samples covering 50 X 36 area; 25 mrad X 18 mrad) centered on north pole near 170 degrees west longitude, 65 degrees north latitude. Spacecraft distance about 0.76 million km, covers 19000 X 13680; NIMS IFOV = 380 KM. About 1751.333 secs (29:11.333) for scanning, assuming 17.33 secs for reposition slew. Observation accumulates 0.9554 MBTG in 40 wavelengths and uses 0.05884 tracks. One minute reserved for targetting, since observation follows SPOLEM03 on the same target.

Playback Truncated 8 Rims before the end of the observation.

Long Map (LM), Gain 2, Grating Start 0, LPU, JAU253B, JAU40B

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NIMS Software Reload	ACTIVITY ID: 10NNRELOAD03- START TIME: 97-261/13:29:53.267

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000574:00:0	97-261/13:29:53.267	JEE-000/09:40:22.666
End	JEE-CDS 00000564:00:0	97-261/13:39:59.933	JEE-000/09:30:16.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label	10NNRELOAD03-
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

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

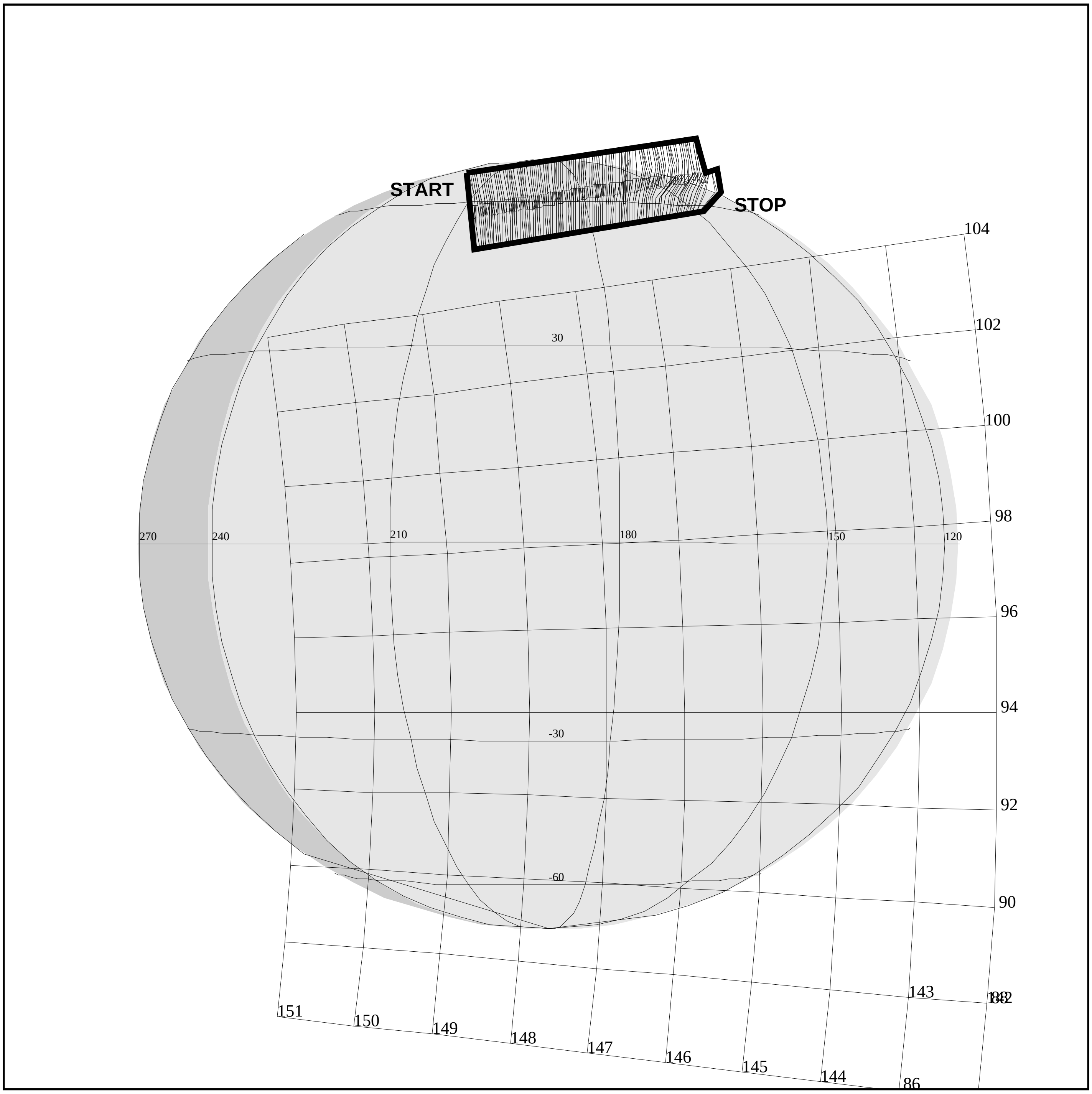
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize 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   08/20/97 15:06:40   rev 6/95



165DW:TT= 0 TMC= 1 C= 31.00 XC= 4.00 BS= 0/4645 TC= 1(65 170)
A= 182 pD= 0 SR=17.450 RA50=283.40 DEC50=-19.94 cone=148.12 clock=106.66
117DW:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4645
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 49.00 XCr= -6.00 sD= 1200 rD= 40

10JNFNP04101

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFNP04101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 -CDS 556:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNFNP04101 **DESCRIP:Jup_xpnded_ftr_trk_41_deg_01**

Jup Expanded NP Ftr Trk 41 deg phse pt 1 ACTIVITY ID: 10JNFNP04101-
START TIME: 97-261/13:46:03.933

Activity ID: Orbit 10 Target J Inst N OAPEL FNP041 SeqNo 01 -

Title	Jup Expanded NP Ftr Trk 41 deg phse pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID Calendar Date 09/18/97 Week 38

Start	JEE-CDS 00000558:00:0	97-261/13:46:03.933	JEE-000/09:24:12.000
End	JEE-CDS 00000542:00:0	97-261/14:02:14.600	JEE-000/09:08:01.333
Duration	00000016:00:0	000/00:16:10.667	000/00:16:10.667

Top Label 10JNFNP04101-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the second of three observations obtained on a rotation with phase angle approximately 41 degrees.
Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A.
This observation acquired with North Polar Auroral zone feature near minimum airmass, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

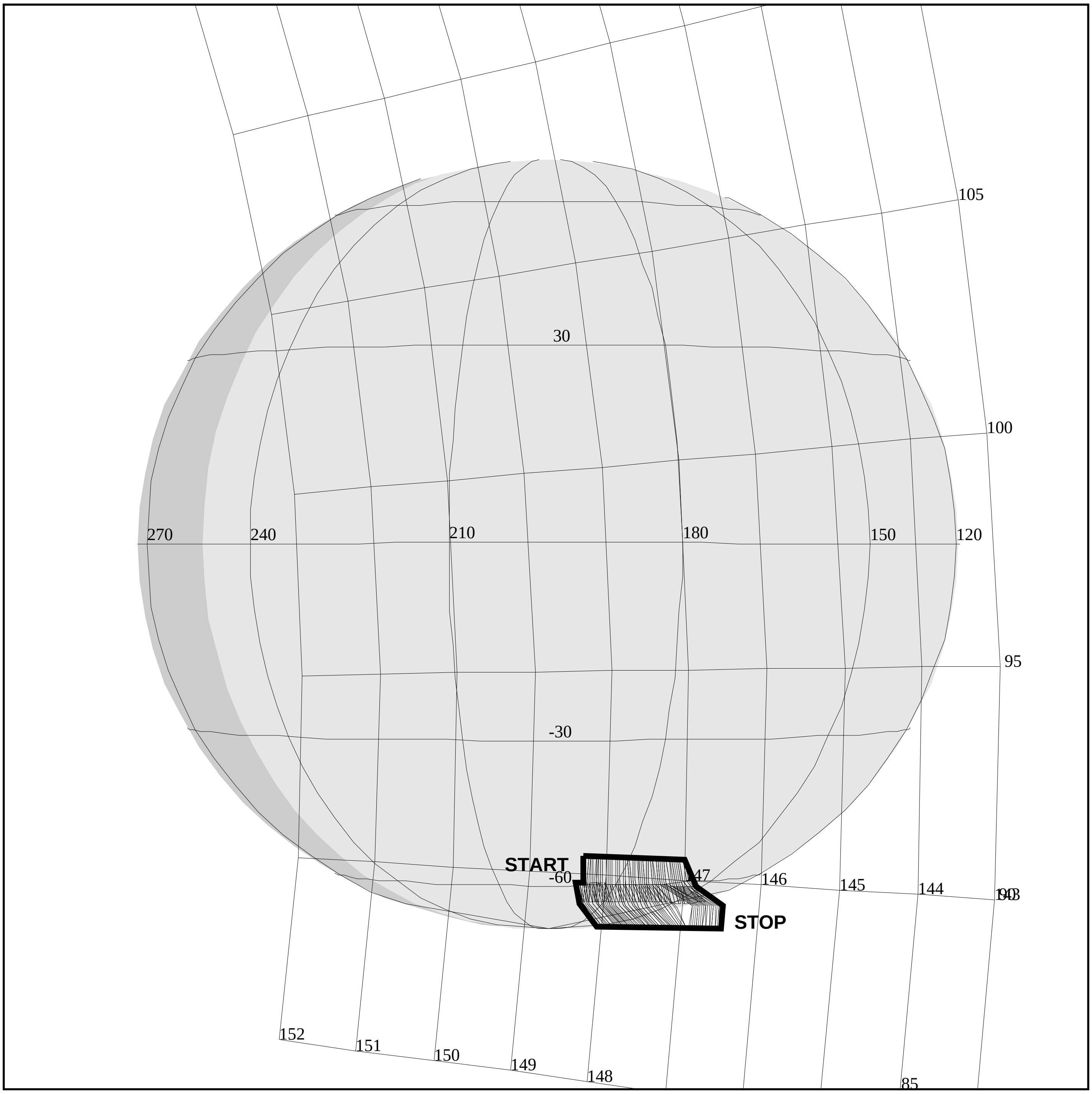
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 4 X 2 (40 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 0.75 million KM, NIMS IFOV (NIMSel) = 375 KM;
4 X 2 mosaic covers 30000 X 13500 KM. About 820 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. One rim reserved for targetting since this follows OAPEL NPAURD01 on same target.

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

Galileo Activity Plan Form 08/20/97 15:06:40 rev 6/95



165DX:TT= 0 TMC= 1 C= 12.00 XC= 4.00 BS= 0/7375 TC= 1(-65 170)
A= 182 pD= 0 SR=17.450 RA50=284.12 DEC50=-28.72 cone=148.30 clock= 89.91
117DX:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7375
1:#s= 2 Cs= -13.65 XCs= 0.00 Cr= 24.00 XCr= -7.00 sD= 2054 rD= 52

10JNSPAURD01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPAURD01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 -CDS 541:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNSPAURD01 **DESCRIP:Jup_South_Pole_Aur_Day_01**

Jupiter South Pole Aurora Daytime prt 1 ACTIVITY ID: 10JNSPAURD01-
START TIME: 97-261/14:02:14.600

Activity ID: Orbit 10 Target J Inst N OAPEL SPAURD SeqNo 01 -

Title	Jupiter South Pole Aurora Daytime prt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 09/18/97 Week 38

Start	JEE-CDS 00000542:00:0	97-261/14:02:14.600	JEE-000/09:08:01.333
End	JEE-CDS 00000517:00:0	97-261/14:27:31.267	JEE-000/08:42:44.666
Duration	00000025:00:0	000/00:25:16.667	000/00:25:16.667

Top Label 10JNSPAURD01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	181	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

First of three specific South Pole Aurora maps sampling each hemisphere of the South Polar region. H3+ and other emissions imaged near 3-4 microns over south pole. This daylight map centered near 197 degrees west longitude, 65 degrees south latitude. Forty (40) wavelengths sent to ground, using NIMS wavelength table JAU40A.

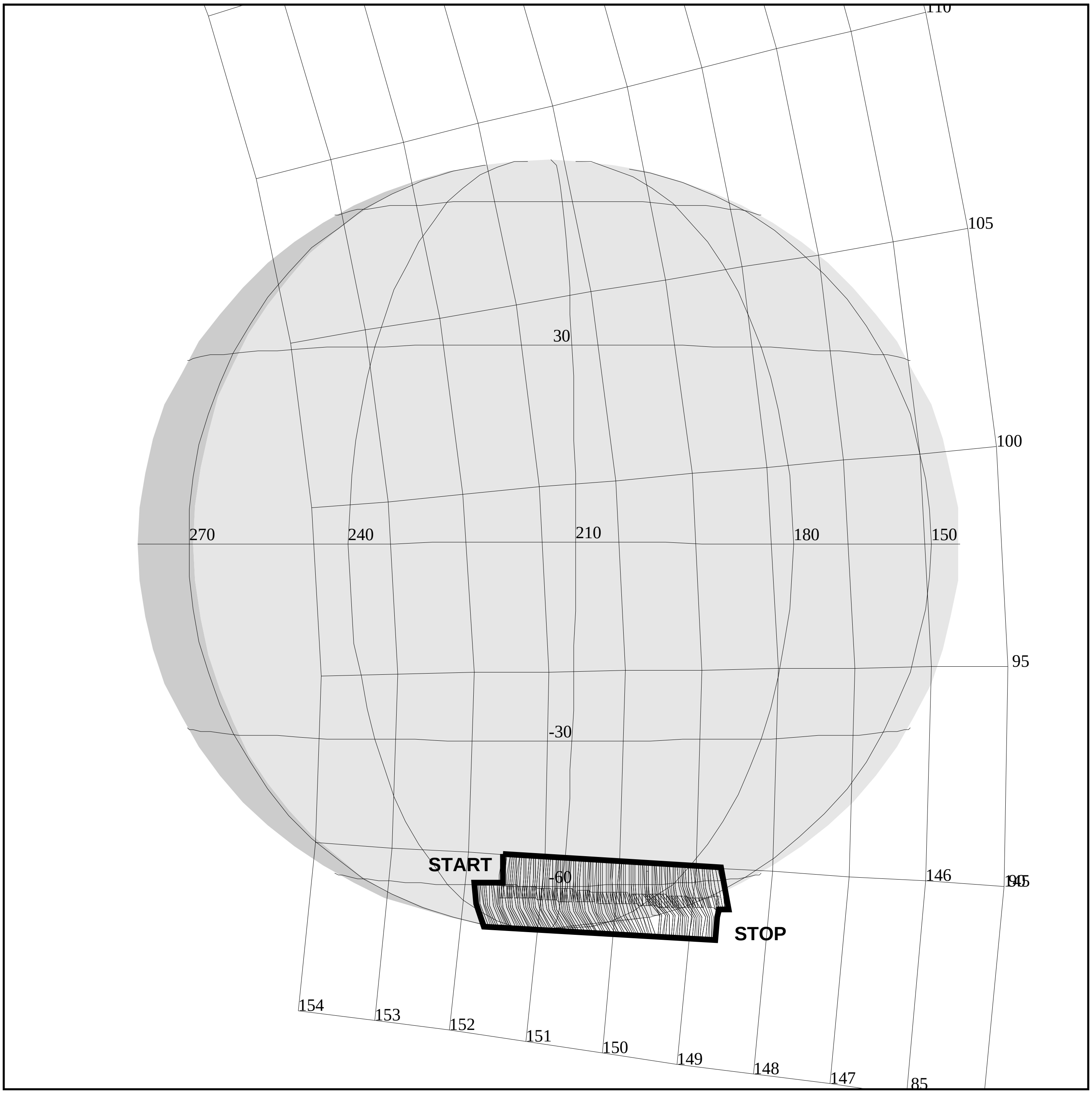
Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1.98 X 2 (79 X 40 NIMSel samples covering 39.5 X 36 area; 19.8 mrad X 18 mrad) centered on the south pole (197 degrees west longitude, 65 degrees north latitude). Spacecraft distance about 0.76 million km, covers 15000 X 13680 KM; NIMS IFOV = 380 KM. About 1386.67 secs (23:06.666) for scanning, assuming 17.333 secs for reposition slew. Observation accumulates 0.75648 MBTG in 40 wavelengths and uses 0.04659 tracks. One minute reserved for targetting, since observation follows FNP04101 on the same target.

Long Map (LM), Gain 2, Grating Start 0, LPU, JAU253B, JAU40B

Galileo Activity Plan Form 08/20/97 15:06:40 rev 6/95



165DY:TT= 0 TMC= 1 C= 25.00 XC= 4.00 BS= 0/2835 TC= 1(-65 195)
A= 182 pD= 0 SR=17.450 RA50=287.80 DEC50=-28.31 cone=151.55 clock= 89.42
117DY:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2835
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 55.00 XCr= -8.00 sD= 1200 rD= 40

10JNSPOLEM04

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPOLEM04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 511:00:0

OBSERVATION:10JNSPOLEM04

THINNING:NIM 2

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

DESCRIP:Jupiter_South_Pole_Map_pt_4

Jupiter South Pole Map prt 4	ACTIVITY ID: 10JNSPOLEM04- START TIME: 97-261/14:31:33.933

Activity ID: Orbit 10 Target J Inst N OAPEL SPOLEM SeqNo 04 -

Title	Jupiter South Pole Map prt 4			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 09/18/97 Week 38

Start	JEE-CDS 00000513:00:0	97-261/14:31:33.933	JEE-000/08:38:42.000
End	JEE-CDS 00000497:00:0	97-261/14:47:44.600	JEE-000/08:22:31.333
Duration	00000016:00:0	000/00:16:10.667	000/00:16:10.667

Top Label 10JNSPOLEM04-
Bottom Label

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

Observation Objective

One of eight maps of the South Polar region, examining haze vertical and spatial structure over all longitudes at South Polar latitudes. Observation obtained with minimum-airmass longitude near 195 degrees west longitude. South Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A.

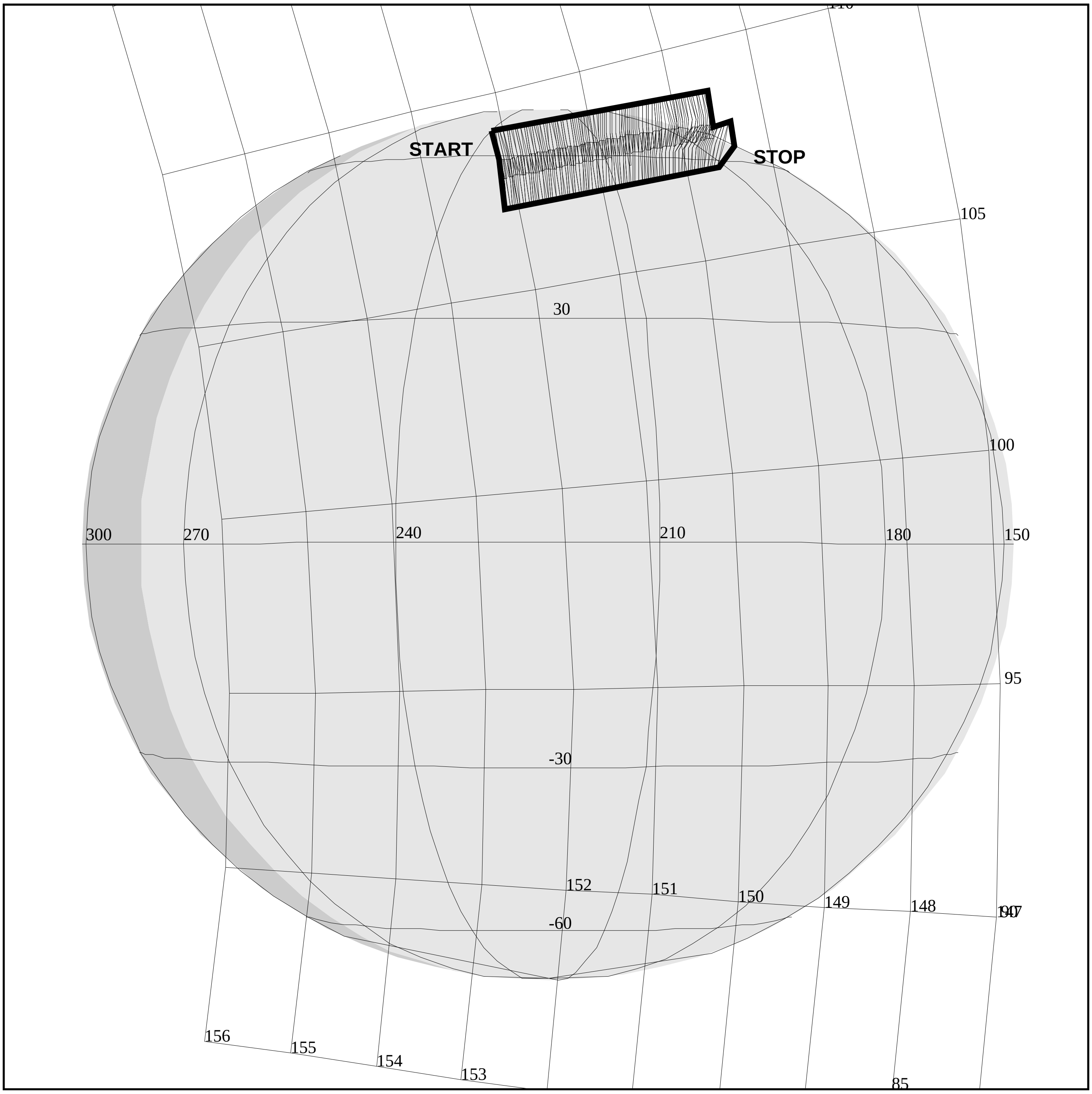
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 195 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. One rim used for targetting, since previous SPAURD01 OPAEL targetted the same area.

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

Galileo Activity Plan Form 08/20/97 15:06:40 rev 6/95



165EA:TT= 0 TMC= 1 C= 44.00 XC= 8.00 BS= 0/5929 TC= 1(65 170)
A= 182 pD= 0 SR=17.450 RA50=287.72 DEC50=-19.33 cone=152.14 clock=108.48
117EA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5929
1:#s= 2 Cs= -37.20 XCs= 0.00 Cr= 41.50 XCr= -5.00 sD= 1018 rD= 40

10JNFNP04102

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFNP04102

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-261/23:10:15.933 -CDS 494:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850

OBSERVATION:10JNFNP04102

DESCRIP:Jup_xpnded_ftr_trk_41_deg_02

Jup Expanded Ftr Trk 41 deg phse pt 2	ACTIVITY ID: 10JNFNP04102- START TIME: 97-261/14:48:45.267

Activity ID: Orbit 10 Target J Inst N OAPEL FNP041 SeqNo 02 -

Title	Jup Expanded Ftr Trk 41 deg phse pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000496:00:0	97-261/14:48:45.267	JEE-000/08:21:30.666
End	JEE-CDS 00000480:00:0	97-261/15:04:55.933	JEE-000/08:05:20.000
Duration	00000016:00:0	000/00:16:10.666	000/00:16:10.666

Top Label	10JNFNP04102-
Bottom Label	

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This expanded version, covering the prime feature plus surrounding territory to the east and west, is the first of three observations obtained on a rotation with phase angle approximately 41 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with North Polar Auroral zone feature near the evening limb, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

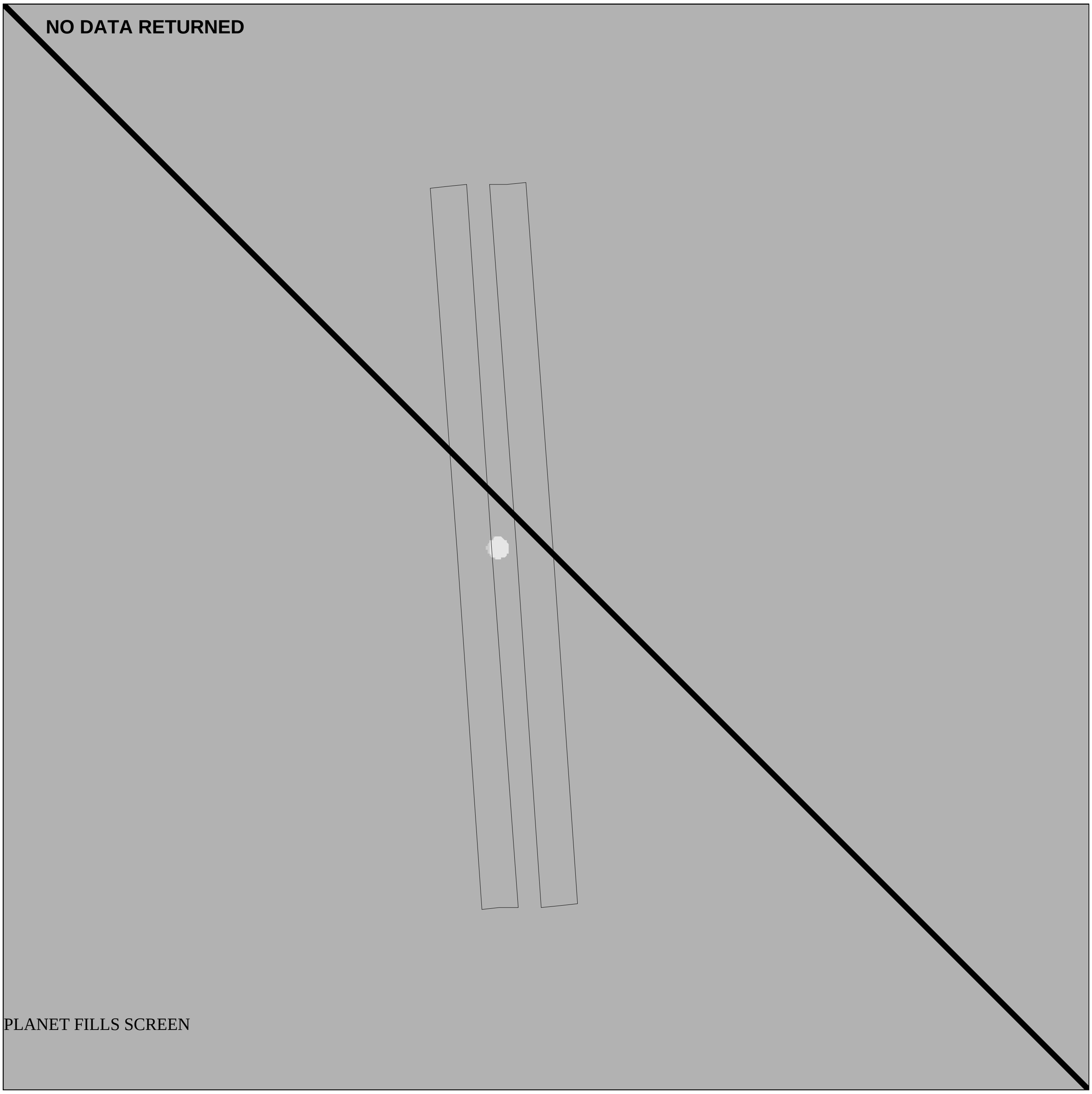
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 4 X 2 (40 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 0.74 million KM, NIMS IFOV (NIMSel) = 370 KM; 4 X 2 mosaic covers 29600 X 13320 KM. About 820 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks.
One rim reserved for targetting since this follows OAPEL NPAURD02 on same target.

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

Galileo Activity Plan Form 08/20/97 15:06:40 rev 6/95



165EB:TT= 0 TMC= 1 C= -0.70 XC= 0.00 BS= 0/9205 TC= 3
A= 728 pD= 100 SR=17.450 RA50=288.85 DEC50=-23.81 cone=153.17 clock= 98.70
117EB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9205
1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 100 rD= 2

10SNAMALTH01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10SNAMALTH01

TARGET BODY : AMALTHEA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 476:00:0

OBSERVATION:10SNAMALTH01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 100 S= 0.020

DESCRIP:OBSERVATION OF AMALTHEA

Observation of Amalthea	ACTIVITY ID: 10SNAMALTH01-
	START TIME: 97-261/15:04:55.933

Activity ID: Orbit 10 Target S Inst N OAPEL AMALTH SeqNo 01 -

Title	Observation of Amalthea			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 09/18/97 Week 38

Start	JEE-CDS 480:00:0	97-261/15:04:55.933	JEE-000/08:05:20.000
End	JEE-CDS 00000474:00:0	97-261/15:10:59.933	JEE-000/07:59:16.000
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label 10SNAMALTH01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	202	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To study the composition of the small satellite Amalthea.

No Data Returned

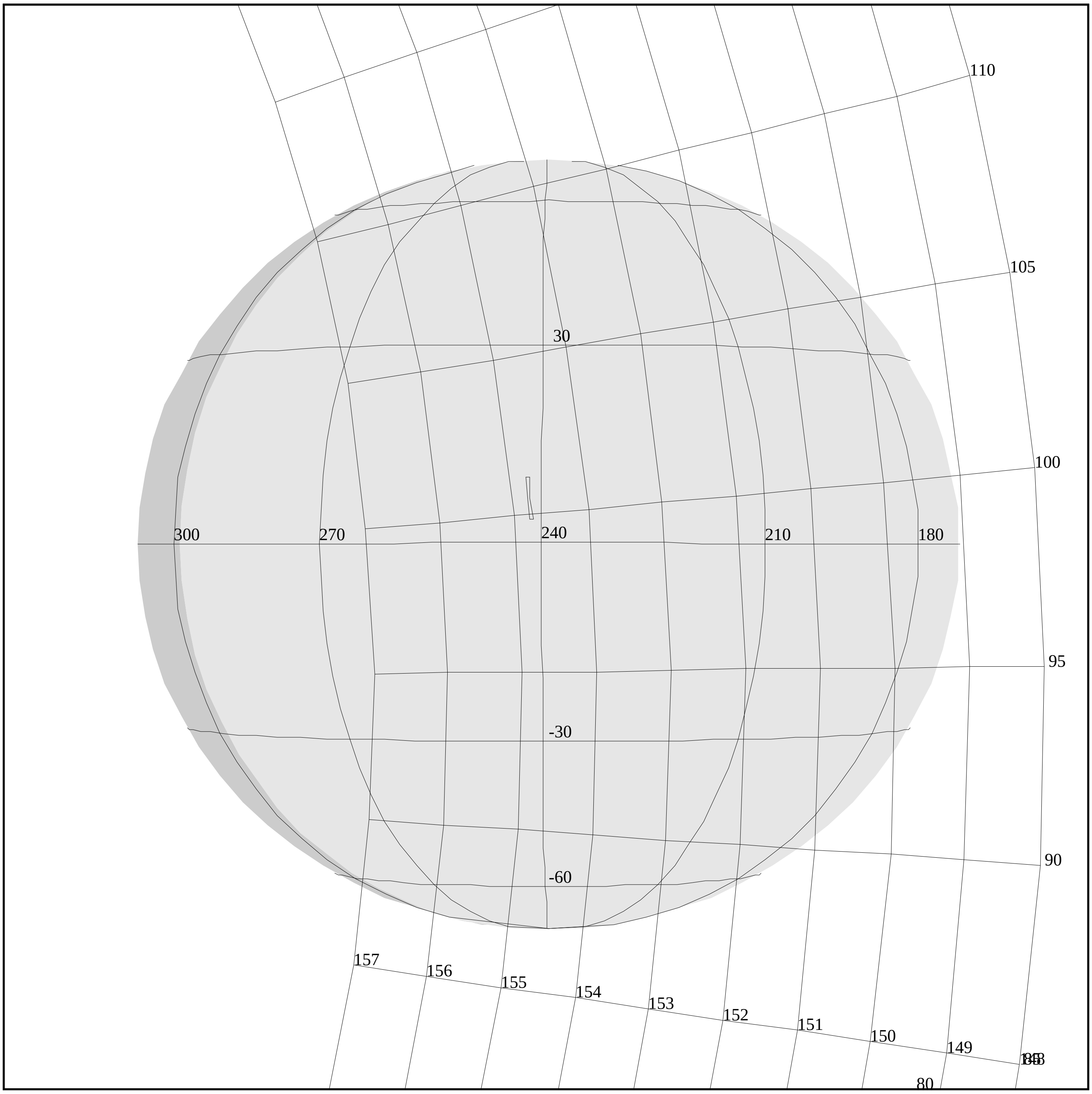
Design Detail

Target to Amalthea do a scan across it. Amalthea is less than one pixel, resolution is ~280 km per pixel. It is highly compressible.
(It could be used as Dark Sky observations.)
NIMS is in Full Map (FM) mode, Slew rate should be in 0.03 mrad/sec.
This slew rate is twice the Nyquist sampling rate to allow a more enhanced or coadded spectra of the satellite.
Gain State should be 4, Chopper reference mode, grating start position is 0, and the grating offset is 4. Record in LPU Mode and Wavelengths expected to be playback is 102 using wavelength table SFM102.

No Data Returned. Jupiter in background - Amalthea unresolvable.

Long Map (LM), Gain 4, Grating Start 0, MPW, SLM442, SLM360

Galileo Activity Plan Form 08/20/97 15:06:40 rev 6/95



165DH:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/1571 TC= 1(6.5 240)
A= 364 pD= 0 SR=17.450 RA50=290.53 DEC50=-22.91 cone=154.78 clock=100.48
117DH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1571
1:#s= 1 Cs= -5.38 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 542 rD= 2

10JNRTHOTS01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNRTHOTS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 97-261/23:10:15.933 -CDS 463:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNRTHOTS01 **DESCRIP:JUPITER_REAL_TIMEHOTSPOT_OBS_01**

Jupiter Real-Time Hotspot Observation	ACTIVITY ID:	10JNRTHOTS01-
	START TIME:	97-261/15:18:04.600

Activity ID: Orbit 10 Target J Inst N OAPEL RTHOTS SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date 09/18/97	Week 38

Start	JEE-CDS 00000467:00:0	97-261/15:18:04.600	JEE-000/07:52:11.333
End	JEE-CDS 00000460:00:0	97-261/15:25:09.267	JEE-000/07:45:06.666
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label   10JNRTHOTS01-
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

Long Map spectra of the Hotspot region at approximately 400 km/pixel on Jupiter. Determination of water and phosphine content within the Hotspot are primary objectives.

Data Returned

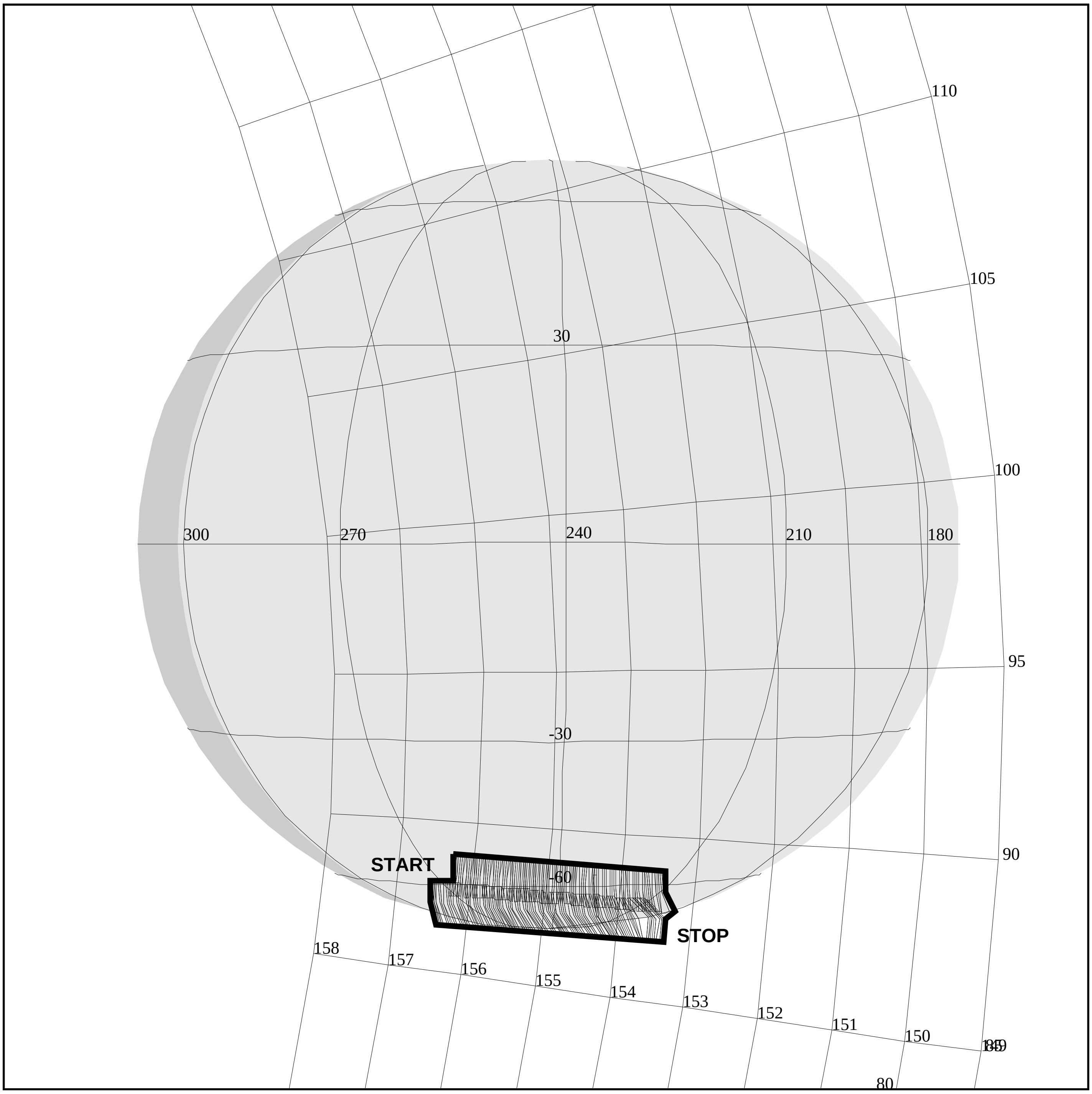
Design Detail

Long Map real-time 3-RIM spectra at 4 mirror positions centered on the Hotspot region. Nimsel coordinates: 0 degrees West longitude, 6.5 degrees North latitude. Acquired near the central meridian at approximately 80 degrees phase angle. Spatial resolution: 380 km/pixel

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

Long Map (LM), Gain 4, Grating Start 0, R/T, RT408

Galileo Activity Plan Form   08/20/97 15:06:40   rev 6/95



165EC:TT= 0 TMC= 1 C= 25.00 XC= 4.00 BS= 0/2663 TC= 1(-65 240)
A= 546 pD= 0 SR=17.450 RA50=293.14 DEC50=-27.63 cone=156.29 clock= 88.25
117EC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2663
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 55.00 XCr= -8.00 sD= 1200 rD= 40

10JNSPOLEM05

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPOLEM05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 457:00:0

OBSERVATION:10JNSPOLEM05

THINNING:NIM 2

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

DESCRIP:Jupiter_South_Pole_Map_pt_5

Jupiter South Pole Map prt 5 ACTIVITY ID: 10JNSPOLEM05-
START TIME: 97-261/15:25:09.267

Activity ID: Orbit 10 Target J Inst N OAPEL SPOLEM SeqNo 05 -

Title	Jupiter South Pole Map prt 5			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 09/18/97 Week 38

Start	JEE-CDS 460:00:0	97-261/15:25:09.267	JEE-000/07:45:06.666
End	JEE-CDS 00000443:00:0	97-261/15:42:20.600	JEE-000/07:27:55.333
Duration	00000017:00:0	000/00:17:11.333	000/00:17:11.333

Top Label 10JNSPOLEM05-
Bottom Label

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

Observation Objective

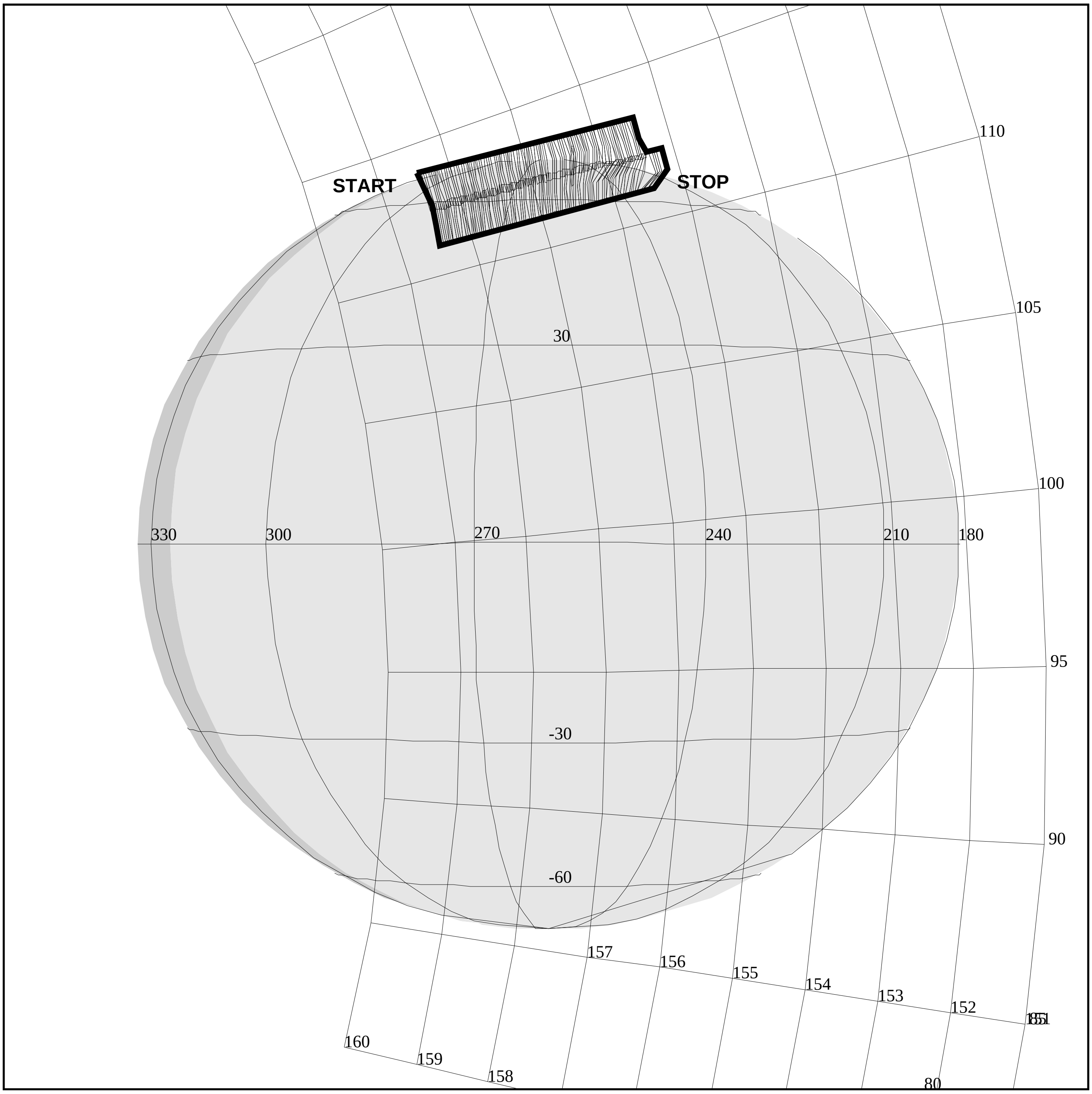
One of eight maps of the South Polar region, examining haze vertical and spatial structure over all longitudes at South Polar latitudes. Observation obtained with minimum-airmass longitude near 240 degrees west longitude. South Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A.

Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 240 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

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



165ED:TT= 0 TMC= 1 C= 29.00 XC= 7.50 BS= 0/8851 TC= 1(65 260)
A= 546 pD= 0 SR=17.450 RA50=294.55 DEC50=-17.96 cone=158.46 clock=113.18
117ED:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8851
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 49.00 XCr= -6.00 sD= 1200 rD= 40

10JNNPOLEM04

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNNPOLEM04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 -CDS 423:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNNPOLEM04 **DESCRIP:Jupiter_North_Pole_Map_pt_4**

Jupiter North Polar Map prt 4	ACTIVITY ID: 10JNNPOLEM04- START TIME: 97-261/15:58:31.267

Activity ID: Orbit 10 Target J Inst N OAPEL NPOLEM SeqNo 04 -

Title	Jupiter North Polar Map prt 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 09/18/97	Week 38

Start	JEE-CDS 00000427:00:0	97-261/15:58:31.267	JEE-000/07:11:44.666
End	JEE-CDS 00000409:00:0	97-261/16:16:43.267	JEE-000/06:53:32.666
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label   10JNNPOLEM04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of six maps of the North Polar region, examining haze vertical and spatial structure over all longitudes at North Polar latitudes. Observation obtained with minimum-airmass longitude near 260 degrees west longitude. North Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A, (Note: territory covered in feature track OAPELS FNP04102 and FNP04103 completes the longitudinal coverage).

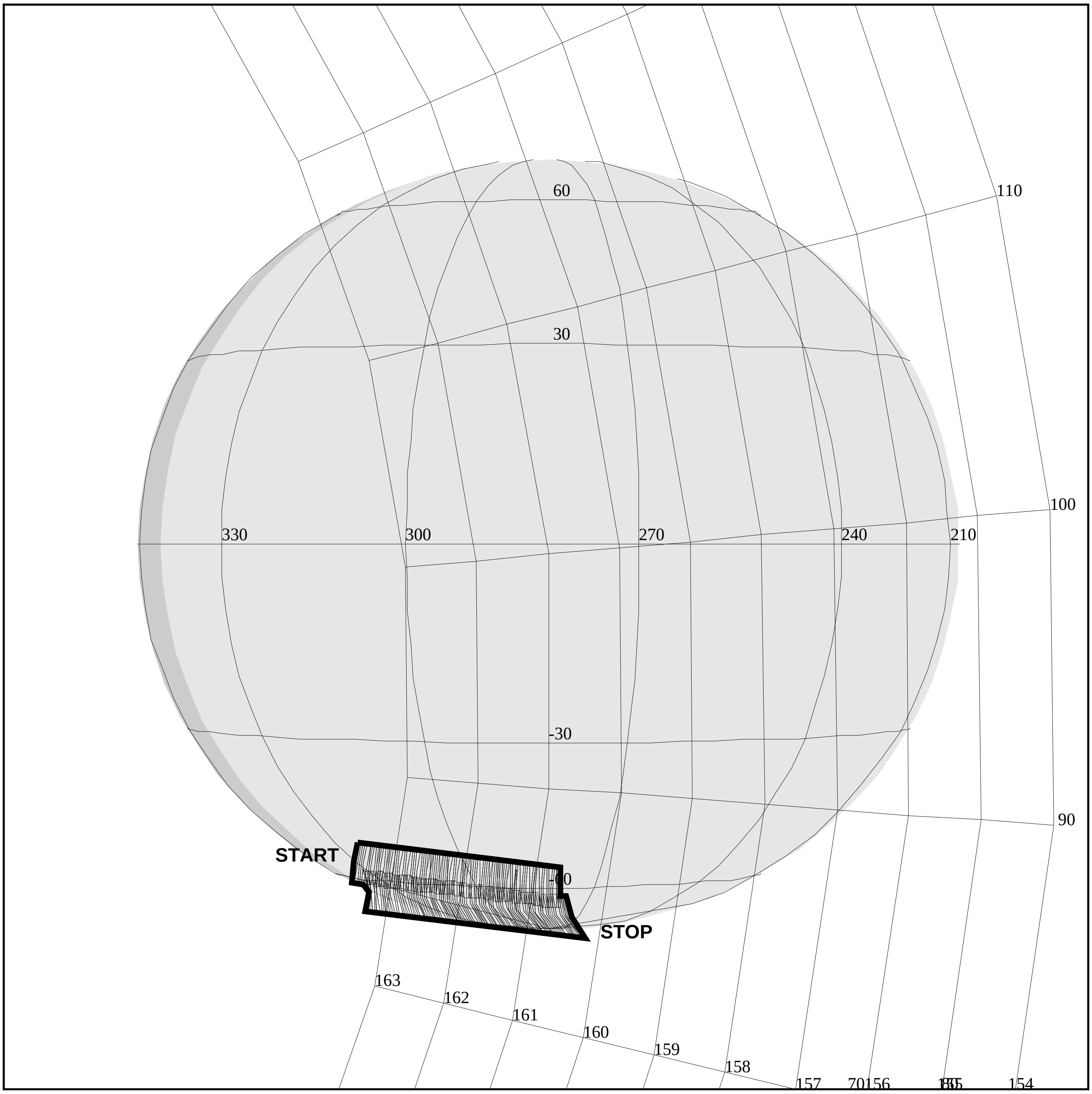
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on North Pole at 260 degrees west longitude, 65 degrees north latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

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

Galileo Activity Plan Form   08/20/97 15:06:41   rev 6/95



165EG:TT=   0 TMC= 1 C=   45.00 XC=   3.00 BS= 0/6131 TC= 1(-65   285   )
A= 546 pD=   0 SR=17.450 RA50=301.18 DEC50=-26.08 cone=163.58 clock= 85.63
117EG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6131
1:#s= 2 Cs= -43.70 XCs=   0.00 Cr=   49.00 XCr=   -8.00 sD= 1200 rD=   40

10JNSPOLEM06

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPOLEM06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM   2

START:JEE 97-261/23:10:15.933   -CDS 383:00:0

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

OBSERVATION:10JNSPOLEM06

DESCRIP:Jupiter_South_Pole_Map_pt_6

Jupiter South Pole Map prt 6		ACTIVITY ID:	10JNSPOLEM06-
		START TIME:	97-261/16:38:57.933

Activity ID: Orbit 10 Target J Inst N OAPEL SPOLEM SeqNo 06 -

Title	Jupiter South Pole Map prt 6			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000387:00:0	97-261/16:38:57.933	JEE-000/06:31:18.000
End	JEE-CDS 00000369:00:0	97-261/16:57:09.933	JEE-000/06:13:06.000
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNSPOLEM06-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of eight maps of the South Polar region, examining haze vertical and spatial structure over all longitudes at South Polar latitudes. Observation obtained with minimum-airmass longitude near 285 degrees west longitude. South Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A.

Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 285 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

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

Galileo Activity Plan Form 08/20/97 15:06:41 rev 6/95

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NIMS Software Reload	ACTIVITY ID: 10NNRELOAD04- START TIME: 97-261/16:59:11.267

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000367:00:0	97-261/16:59:11.267	JEE-000/06:11:04.666
End	JEE-CDS 00000357:00:0	97-261/17:09:17.933	JEE-000/06:00:58.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 10NNRELOAD04-
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

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

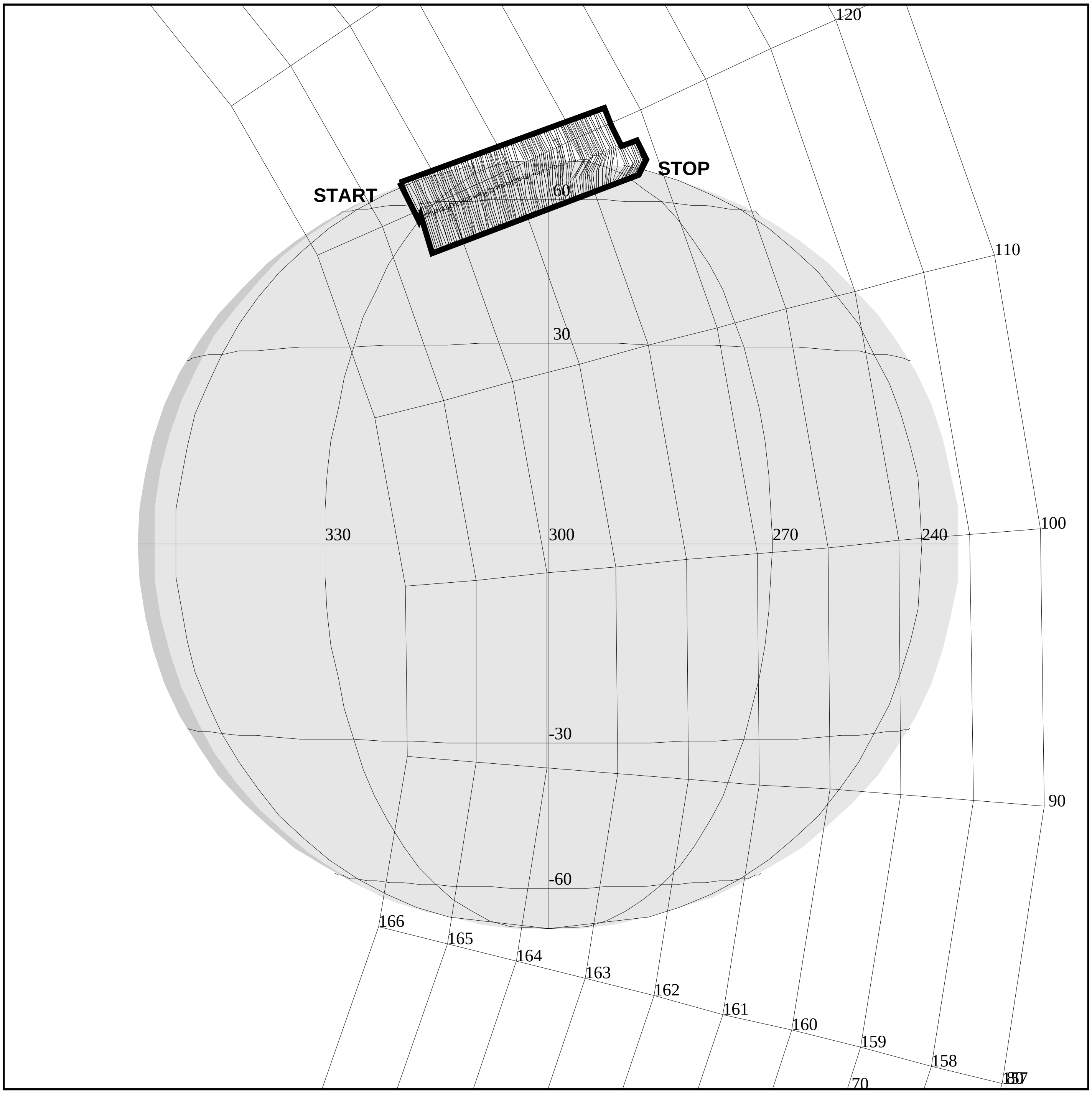
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize 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 08/20/97 15:06:41 rev 6/95



165EE:TT= 0 TMC= 1 C= 29.00 XC= 9.00 BS= 0/2501 TC= 1(65 305)
A= 546 pD= 0 SR=17.450 RA50=301.16 DEC50=-16.56 cone=164.49 clock=120.60
117EE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2501
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 49.00 XCr= -6.00 sD= 1200 rD= 40

10JNNPOLEM05

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNNPOLEM05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 348:00:0

OBSERVATION:10JNNPOLEM05

THINNING:NIM 2

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

DESCRIP:Jupiter_North_Pole_Map_pt_5

Jupiter North Pole Map prt 5	ACTIVITY ID: 10JNNPOLEM05- START TIME: 97-261/17:14:21.267

Activity ID: Orbit 10 Target J Inst N OAPEL NPOLEM SeqNo 05 -

Title	Jupiter North Pole Map prt 5			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000352:00:0	97-261/17:14:21.267	JEE-000/05:55:54.666
End	JEE-CDS 00000334:00:0	97-261/17:32:33.267	JEE-000/05:37:42.666
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNNPOLEM05-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of six maps of the North Polar region, examining haze vertical and spatial structure over all longitudes at North Polar latitudes. Observation obtained with minimum-airmass longitude near 305 degrees west longitude. North Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A, (Note: territory covered in feature track OAPELS FNP04102 and FNP04103 completes the longitudinal coverage).

Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on North Pole at 305 degrees west longitude, 65 degrees north latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

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

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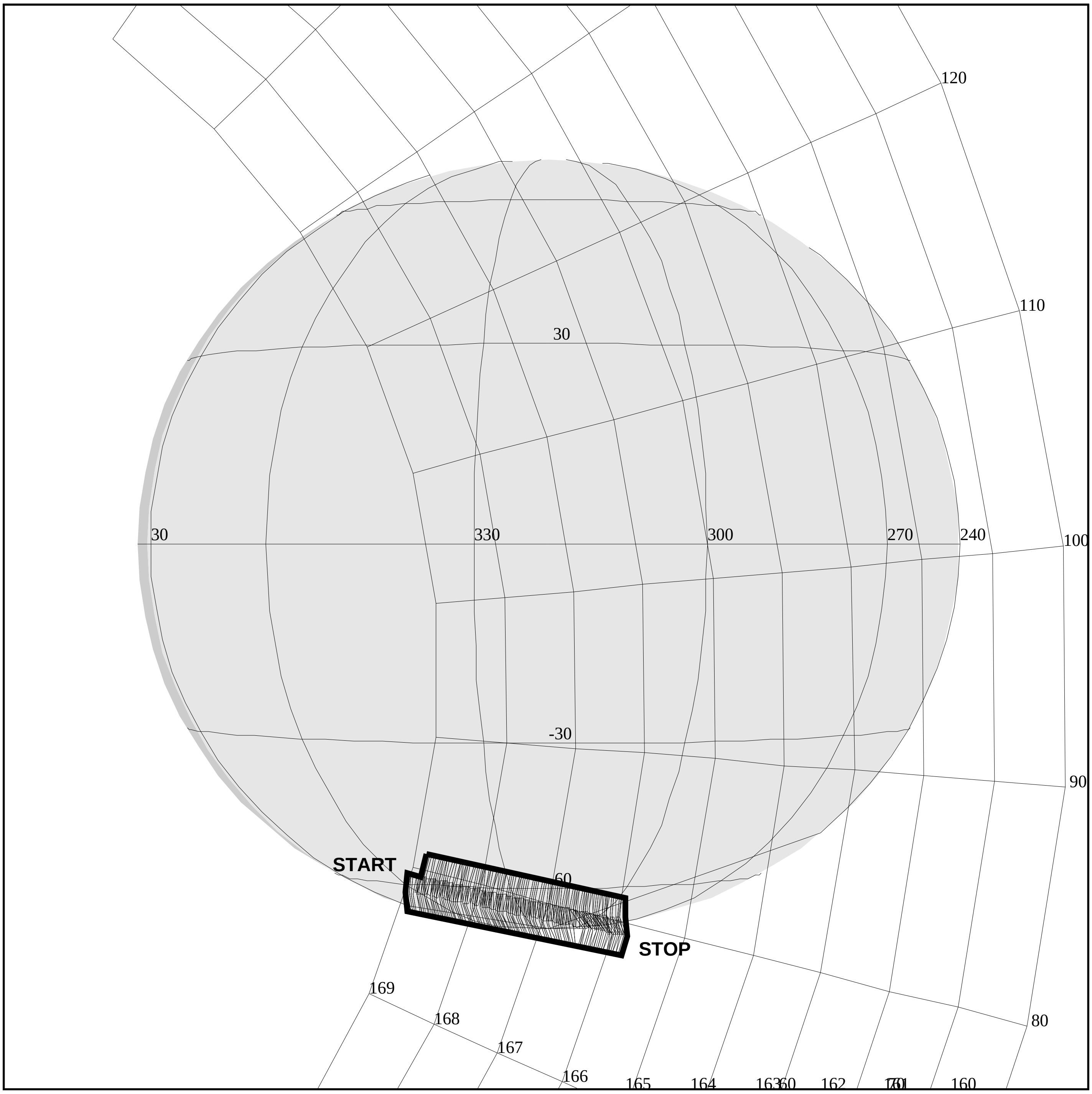


165EF:TT= 0 TMC= 1 C= 25.00 XC= 1.00 BS= 0/9599 TC= 1(-65 330)
A= 546 pD= 0 SR=17.450 RA50=307.13 DEC50=-24.98 cone=168.88 clock= 79.76
117EF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9599
1:#s= 2 Cs= -43.80 XCs= 0.00 Cr= 54.00 XCr= -8.00 sD= 1200 rD= 40

10JNSPOLEM07

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPOLEM07

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 -CDS 309:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNSPOLEM07 **DESCRIP:Jupiter_South_Pole_Map_pt_7**

Jupiter South Pole Map prt 7	ACTIVITY ID: 10JNSPOLEM07- START TIME: 97-261/17:53:47.267

Activity ID: Orbit 10 Target J Inst N OAPEL SPOLEM SeqNo 07 -

Title	Jupiter South Pole Map prt 7			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000313:00:0	97-261/17:53:47.267	JEE-000/05:16:28.666
End	JEE-CDS 00000295:00:0	97-261/18:11:59.267	JEE-000/04:58:16.666
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	10JNSPOLEM07-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	162	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

One of eight maps of the South Polar region, examining haze vertical and spatial structure over all longitudes at South Polar latitudes. Observation obtained with minimum-airmass longitude near 330 degrees west longitude. South Pole imaged in 19 colors, using NIMS downlink wavelength table JFT19A.

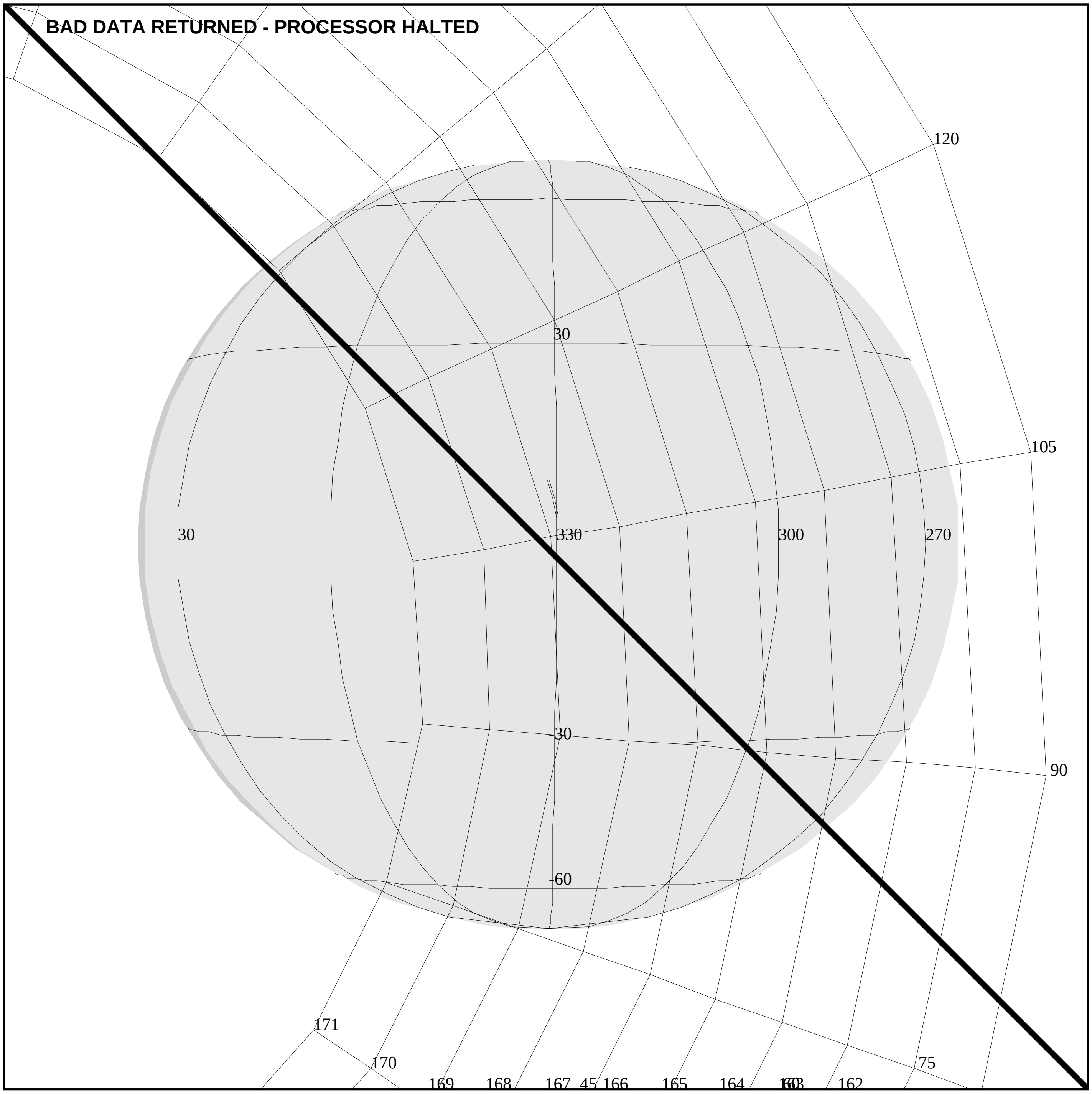
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 330 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.8 million km, NIMS IFOV (NIMSel) = 400 KM. 4 X 2 mosaic covers 32000 X 14400 KM, covering more than 45 degrees of longitude in the polar region. About 820 seconds = 13:40 of scanning, including 20 seconds for a reposition slew, accumulating 0.7366 MBTG in 19 colors, and using 0.02755 tracks. Target time = 3:20.

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

Galileo Activity Plan Form 08/20/97 15:06:41 rev 6/95



165DI:TT= 0 TMC= 1 C= 0.86 XC= 0.00 BS= 0/3239 TC= 1(6.5 330)
A= 728 pD= 0 SR=17.450 RA50=305.47 DEC50=-19.83 cone=168.86 clock=107.88
117DI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3239
1:#s= 1 Cs= -1.78 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

10JNRTHOTS02

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNRTHOTS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 -CDS 289:00:0

OBSERVATION:10JNRTHOTS02

THINNING:NIM 7

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

DESCRIP:JUPITER_REAL_TIMEHOTSPOT_OBS_02

```
Jupiter Real-Time Hotspot Observation    ACTIVITY ID:   10JNRTHOTS02-
                                          START TIME:   97-261/18:11:59.267

Activity ID: Orbit 10  Target J  Inst N  OAPEL RTHOTS  SeqNo 02 -

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

Time System  CDS       Load ID         Calendar Date  09/18/97  Week  38

Start         JEE-CDS 00000295:00:0 97-261/18:11:59.267   JEE-000/04:58:16.666
End           JEE-CDS 00000286:00:0 97-261/18:21:05.267   JEE-000/04:49:10.666
Duration             00000009:00:0     000/00:09:06.000        000/00:09:06.000

Top Label    10JNRTHOTS02-
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

Long Map spectra of the Hotspot region at approximately 400 km/pixel
on Jupiter. Determination of water and phosphine content within the
Hotspot are primary objectives.

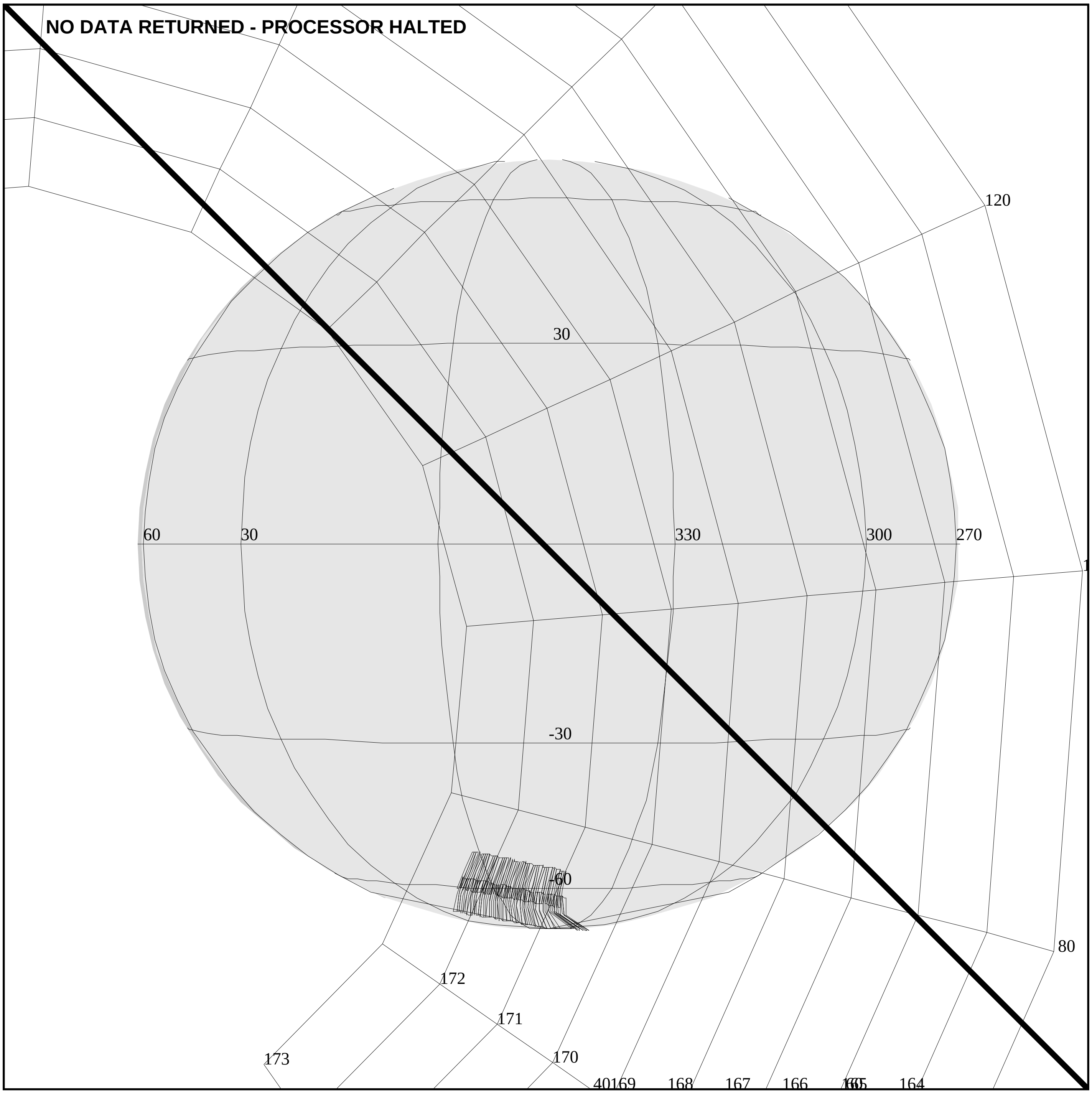
Processor Halted, Bad Data Returned

Design Detail

Long Map real-time 1-RIM spectra at 4 mirror positions centered on
the Hotspot region. NIMSel cordinates: 125 degrees West longitude,
6.5 degrees North latitude. Acquired near the central meridian at
approximately 89 degrees phase angle. Spatial resolution: 420 km/pixel.

Long Map (LM), Gain 4, Grating Start 0, R/T, RT408

Galileo Activity Plan Form   08/20/97 15:06:41   rev 6/95



165EH:TT= 0 TMC= 1 C= 12.00 XC= 4.00 BS= 0/8517 TC= 1(-65 0)
A= 364 pD= 0 SR=17.450 RA50=311.13 DEC50=-23.94 cone=172.46 clock= 72.04
117EH:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/8517
1:#s= 2 Cs= -13.65 XCs= 0.00 Cr= 25.00 XCr= -12.00 sD= 2054 rD= 52

10JNSPAURD02

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPAURD02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 -CDS 260:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNSPAURD02 **DESCRIP:Jup_South_Pole_Aur_Day_02**

Jupiter South Pole Aurora Daytime prt 2 ACTIVITY ID: 10JNSPAURD02-
START TIME: 97-261/18:46:21.933

Activity ID: Orbit 10 Target J Inst N OAPEL SPAURD SeqNo 02 -

Title	Jupiter South Pole Aurora Daytime prt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000261:00:0	97-261/18:46:21.933	JEE-000/04:23:54.000
End	JEE-CDS 00000236:00:0	97-261/19:11:38.600	JEE-000/03:58:37.333
Duration	00000025:00:0	000/00:25:16.667	000/00:25:16.667

Top Label   10JNSPAURD02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	181	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

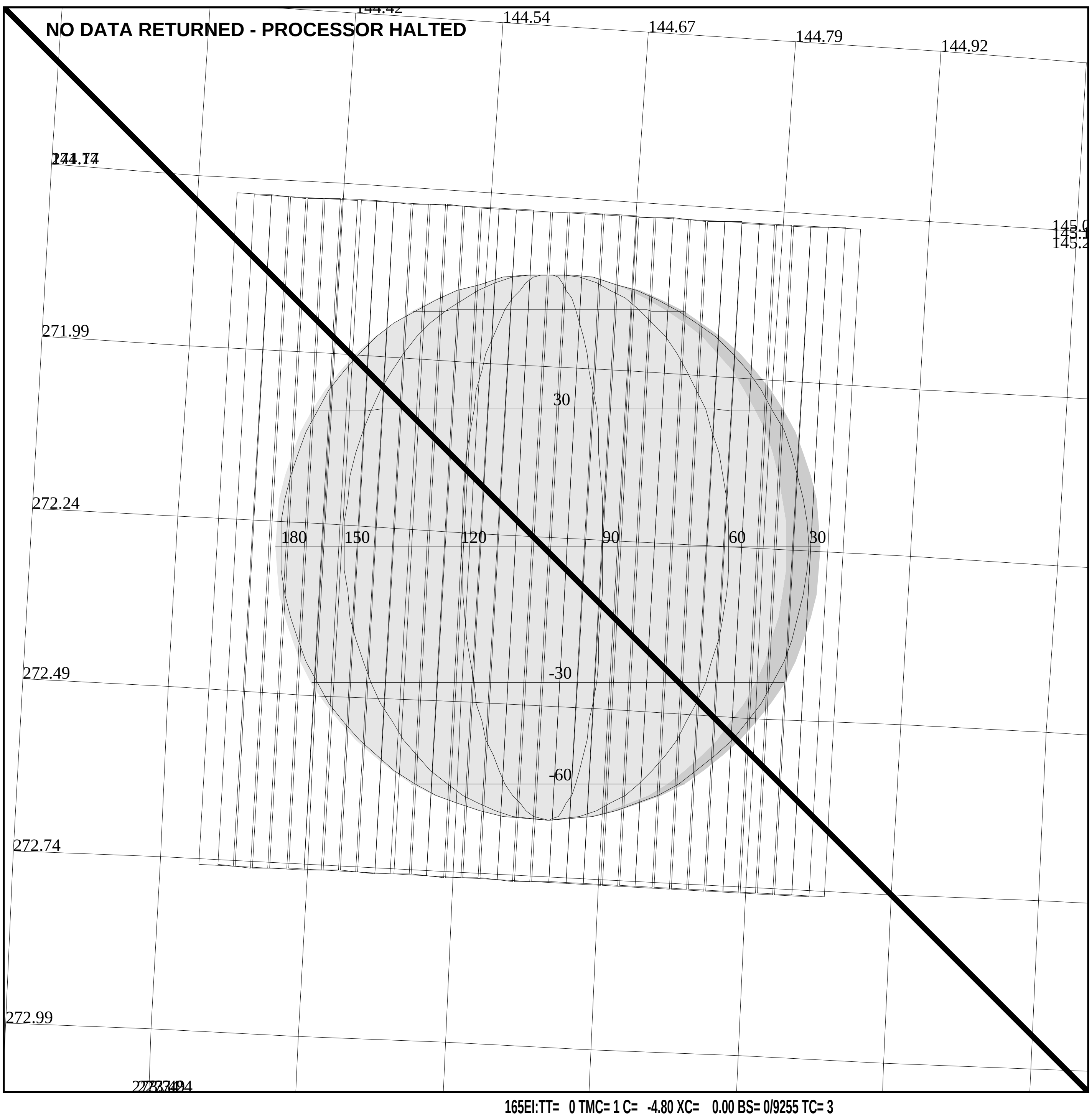
Second of three specific South Pole Aurora maps sampling each hemisphere of the South Polar region. H3+ and other emissions imaged near 3-4 microns over south pole. This daylight map centered near zero degrees west longitude, 65 degrees south latitude. Forty (40) wavelengths sent to ground, using NIMS wavelength table JAU40A.

Processor Halted, No Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1.98 X 2 (79 X 40 NIMSel samples covering 39.5 X 36 area; 19.8 mrad X 18 mrad) centered on the south pole (zero degrees west longitude, 65 degrees north latitude).
Spacecraft distance about 0.76 million km, covers 15000 X 13680 KM;
NIMS IFOV = 380 KM. About 1386.67 secs (23:06.666) for scanning, assuming 17.333 secs for repostion slew. Observation accumulates 0.75648 MBTG in 40 wavelengths and using 0.04659 tracks.
One minute reserved for targetting, since observation follows NPOLEM06 on the same target.

Long Map (LM), Gain 2, Grating Start 0, LPU, JAU253B, JAU40B



165EI:TT=   0 TMC= 1 C=   -4.80 XC=   0.00 BS= 0/9255 TC= 3
A= 728 pD=   906 SR=17.450 RA50=350.08 DEC50= -3.41 cone=144.33 clock=272.25
117EI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9255
1:#s= 1 Cs=   9.00 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   910 rD=   2

10INCHEMIS03

DESIGN G3.2 lisac: 9/26/1997 10: 6:12

FILE:P.10INCHEMIS03

TARGET BODY :   IO

MINI:m.10INCHEMIS03

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933   -CDS 531:00:0

OBSERVATION:10INCHEMIS03

THINNING:NIM   1

BODY PLOT TIME:TARGET-TIME D= 906 S= 0.500

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: 10INCHEMIS03- START TIME: 97-261/19:41:58.600

Activity ID: Orbit 10 Target I Inst N OAPEL CHEMIS SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	IEE-CDS 00000536:00:0	97-261/19:41:58.600	IEE-000/09:01:57.333
End	IEE-CDS 00000524:89:0	97-261/19:53:07.267	IEE-000/08:50:48.666
Duration	00000011:02:0	000/00:11:08.667	000/00:11:08.667

Top Label 10INCHEMIS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	156	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).

Processor Halted, No Data Returned

Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILM228

Galileo Activity Plan Form 08/20/97 15:06:41 rev 6/95

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NIMS Health Observation No. 2	ACTIVITY ID:	10NNHEALTH02-
	START TIME:	97-261/20:57:48.600

Activity ID: Orbit 10 Target N Inst N OAPEL HEALTH SeqNo 02 -

Title	NIMS Health Observation No. 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE-CDS 00000131:00:0	97-261/20:57:48.600	JEE-000/02:12:27.333
End	JEE-CDS 00000126:00:0	97-261/21:02:51.933	JEE-000/02:07:24.000
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label 10NNHEALTH02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	PA	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 anbd dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

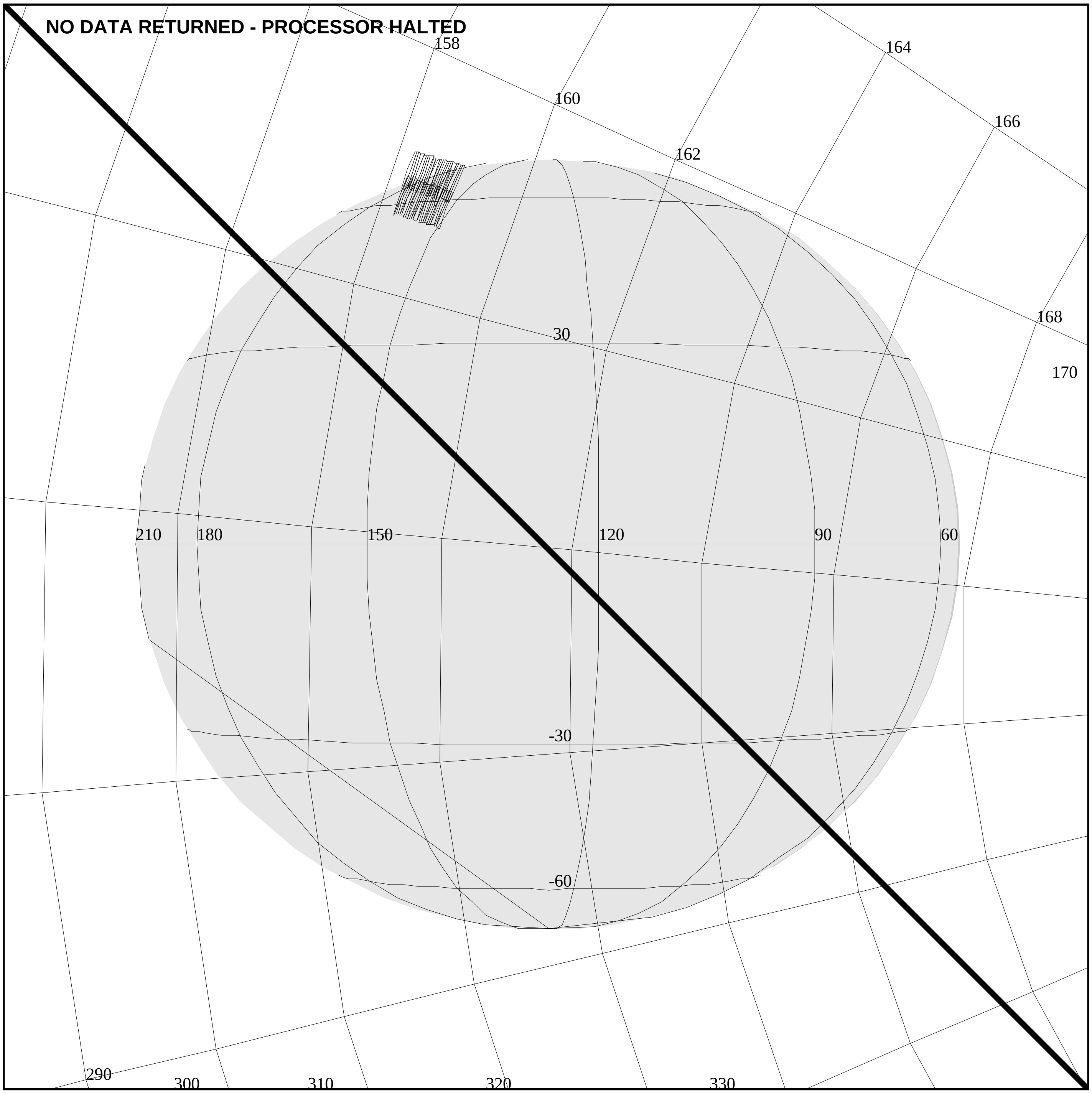
Processor Halted, Bad Data Returned

Design Detail

No scan platform commanding. The scan platform is at the enfd of the slew of the previous observation:

Long Map (LM), Gain 2, Grating Start 0, R/T, RTRCVY3

Galileo Activity Plan Form 08/20/97 15:06:42 rev 6/95



165EJ:TT= 0 TMC= 1 C= -4.00 XC= -4.00 BS= 0/8203 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50=333.96 DEC50= -4.68 cone=158.30 clock=254.90
117EJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8203
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -13.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA02101

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA02101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 13:00:0

OBSERVATION:10JNFEA02101

THINNING:NIM 2

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

DESCRIP:Jup_Fea_trk_21_deg_phase_01

Jupiter Feature Track 21 deg phase pt 1	ACTIVITY ID: 10JNFEA02101-
	START TIME: 97-261/23:18:21.266

Activity ID: Orbit 10 Target J Inst N OAPEL FEA021 SeqNo 01 -

Title	Jupiter Feature Track 21 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID		Calendar Date 09/18/97	Week 38

Start	JEE+CDS 00000008:00:0	97-261/23:18:21.266	JEE+000/00:08:05.333
End	JEE+CDS 00000017:00:0	97-261/23:27:27.266	JEE+000/00:17:11.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	10JNFEA02101-
Bottom Label	

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the first of three observations obtained on a rotation with phase angle approximately 21 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with North Polar Auroral zone feature near the morning limb, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

Processor Halted, No Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 0.64 million KM, NIMS IFOV (NIMSel) = 320 KM; 1 X 2 mosaic covers 6400 X 11520 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.19762 MBTG in 19 colors, and using 0.00739 tracks. Four rims reserved for targetting.

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

Galileo Activity Plan Form   08/20/97 15:06:42   rev 6/95

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NIMS Software Reload	ACTIVITY ID: 10NNRELOAD05- START TIME: 97-261/23:45:39.266

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 05 -

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

Time System	CDS	Load ID		Calendar Date	09/18/97	Week	38

Start	JEE+CDS	00000035:00:0	97-261/23:45:39.266	JEE+000/00:35:23.333
End	JEE+CDS	00000045:00:0	97-261/23:55:45.933	JEE+000/00:45:30.000
Duration		00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	10NNRELOAD05-
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

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

Memory reload 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 reinitialize 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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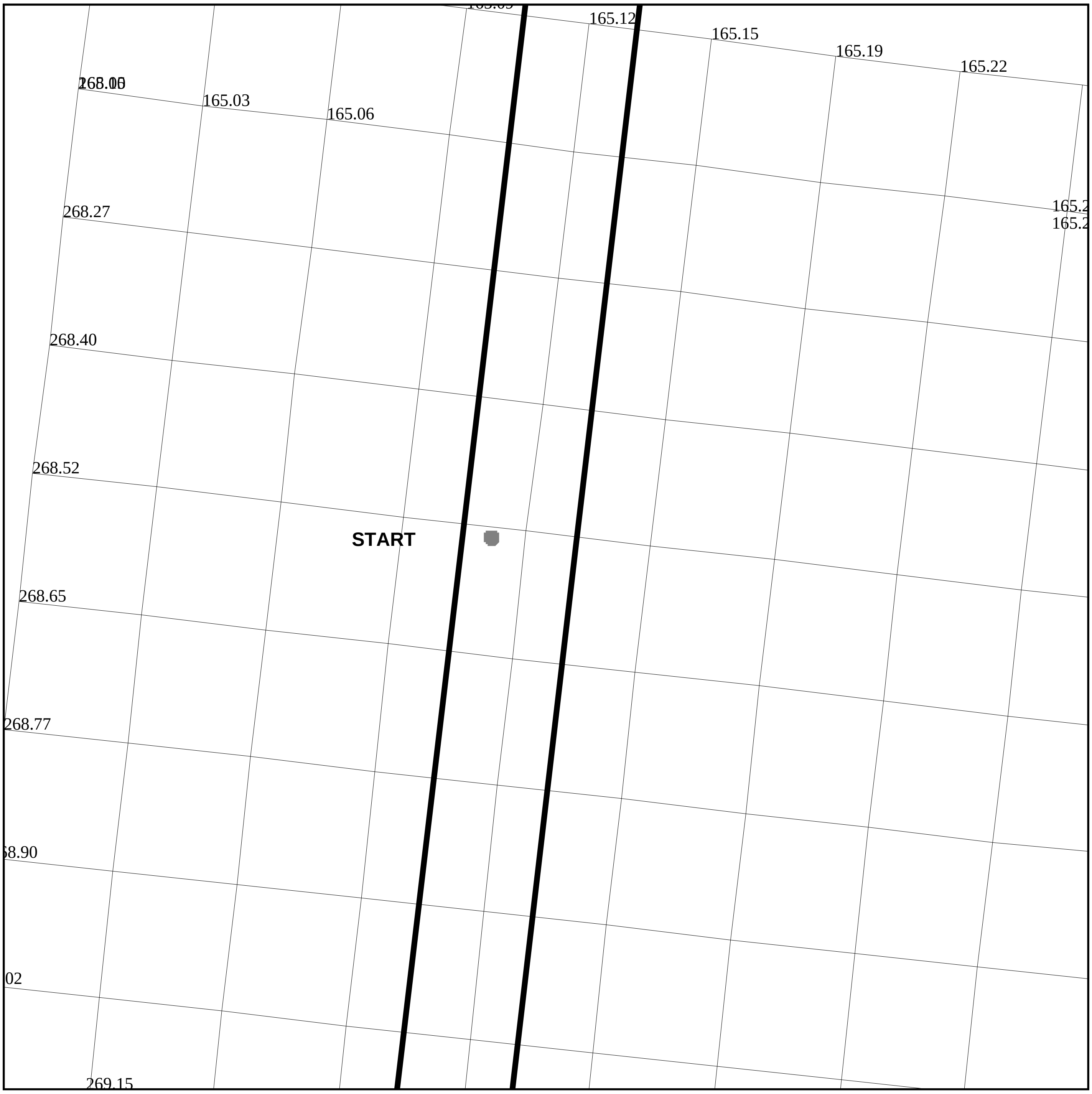


165EK:TT= 0 TMC= 1 C= 0.25 XC= 0.00 BS= 0/5665 TC= 3
A= 182 pD= 60 SR=17.450 RA50=330.95 DEC50=-12.12 cone=165.13 clock=268.53
117EK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5665
1:#s= 1 Cs= -0.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 60 rD= 2

10SNSMETIS01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10SNSMETIS01

TARGET BODY : METIS

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 54:00:0

OBSERVATION:10SNSMETIS01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 60 S= 0.015

DESCRIP:OBSERVATION_OF_METIS

NIMS Small Satellite Obs. of Metis	ACTIVITY ID: 10SNSMETIS01- START TIME: 97-262/00:00:49.266

Activity ID: Orbit 10 Target S Inst N OAPEL SMETIS SeqNo 01 -

Title	NIMS Small Satellite Obs. of Metis			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date 09/19/97	Week 38

Start	JEE+CDS 00000050:00:0	97-262/00:00:49.266	JEE+000/00:50:33.333
End	JEE+CDS 00000055:00:0	97-262/00:05:52.599	JEE+000/00:55:36.666
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label 10SNSMETIS01-
Bottom Label

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

Observation Objective

To study the composition of the small satellite Metis, which is embedded in the rings. This will tell if it is the body or source of the rings.

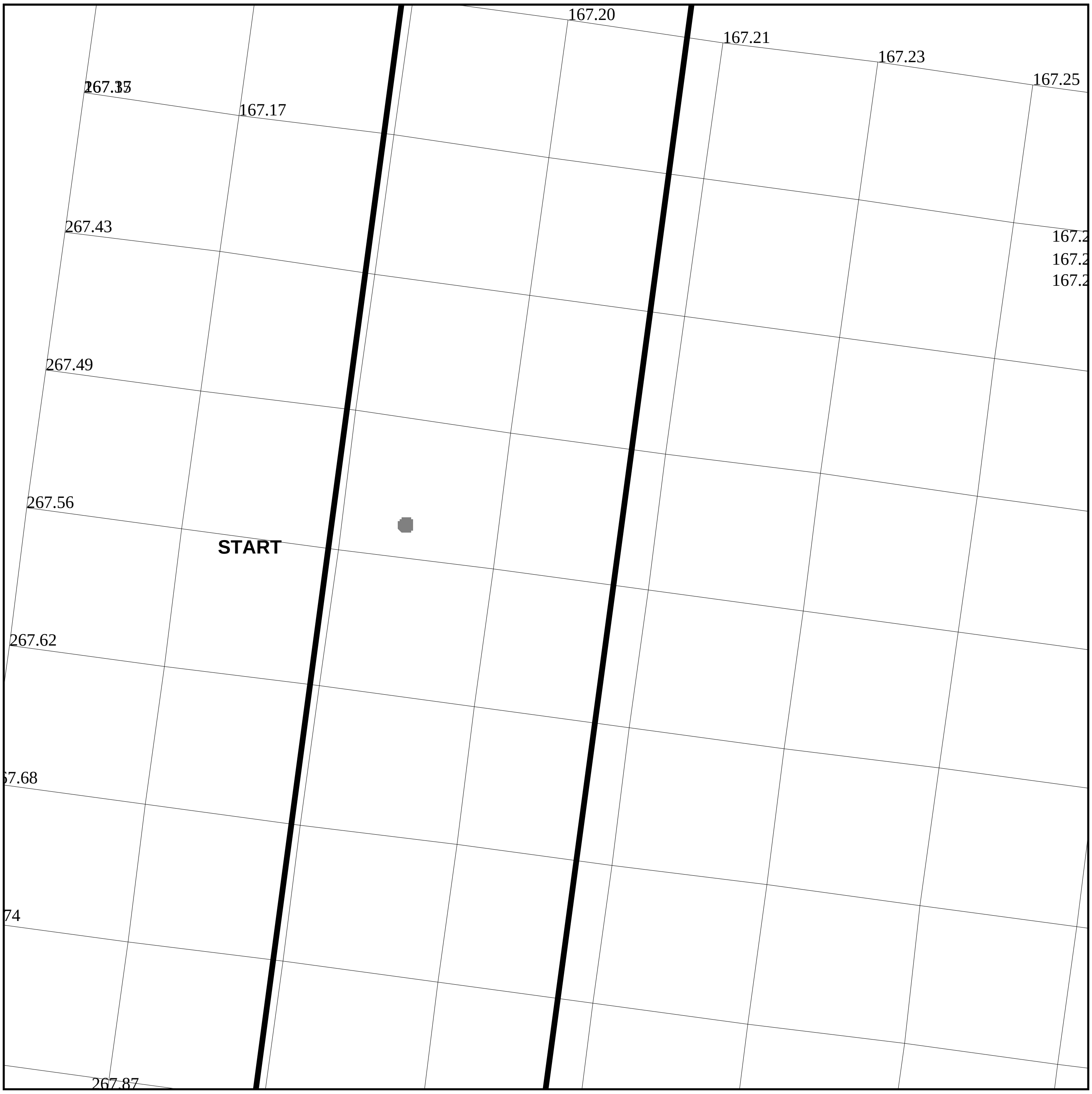
Data Returned

Design Detail

Target to Metis and scan across the satellite. Metis is ~290 km per pixel and it is sub-pixel. This observation is highly compressible because of the dark sky. (It could be used as Dark Sky observations.)
NIMS is in Full Map (FM) mode, Slew rate should be in 0.03 mrad/sec. This slew rate is two the Nyquist sampling rate to allow a more enhanced or coadded spectra of the satellites. Gain State should be 4, Chopper reference mode, grating start position is 0, and the grating offset is 4. Record in LPU Mode and there should be two SCIRECs because there is targetting slew between satellites.
Wavelengths expected to be playback is 102 using wavelength table SFM102.

Long Map (LM), Gain 4, Grating Start 0, MPW, SLM442, SLM360

Galileo Activity Plan Form 08/20/97 15:06:42 rev 6/95



165EL:TT=   0 TMC= 1 C=   0.25 XC=   0.00 BS= 0/6757 TC= 3
A= 728 pD=   60 SR=17.450 RA50=328.98 DEC50=-12.94 cone=167.20 clock=267.54
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6757
1:#s= 1 Cs=   -0.50 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   60 rD=   2

10SNADRAST01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10SNADRAST01

TARGET BODY :   ADRASTEA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933   +CDS 60:00:0

OBSERVATION:10SNADRAST01

THINNING:NIM   2

BODY PLOT TIME:TARGET-TIME D=   60 S= 0.015

DESCRIP:OBSERVATION_OF_ADRASTEA

Observation of Adrastea	ACTIVITY ID: 10SNADRAST01- START TIME: 97-262/00:06:53.266

Activity ID: Orbit 10 Target S Inst N OAPEL ADRAST SeqNo 01 -

Title	Observation of Adrastea			Instrument	NIMS
Requestor	NIMS-SWG/JHUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000056:00:0	97-262/00:06:53.266	JEE+000/00:56:37.333
End	JEE+CDS 00000061:00:0	97-262/00:11:56.599	JEE+000/01:01:40.666
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label 10SNADRAST01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	373	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To study the composition of the small satellite Adrastea, which is embedded in the rings. This will tell if it is the parent body or source of the rings.

Data Returned

Design Detail

Target to Adrastea and scan across the satellite.
Adrastea is less than one pixel, resolution is ~355 km per pixel.
This observation is highly compressible because of the dark sky.
(It could be used as Dark Sky observations.)
NIMS is in Full Map (FM) mode, Slew rate should be 0.03 mrad/sec.
This slew rate is two the Nyquist sampling rate to allow a more enhanced or coadded spectra of the satellites. Gain State should be 4, Chopper reference mode, grating start position is 0, and the grating offset is 4.
Record in LPU Mode and there should be two SCIRECs because there is targetting slew between satellites.
Wavelengths expected to be playback is 102 using wavelength table SFM102.

Long Map (LM), Gain 4, Grating Start 0, MPW, SLM442, SLM360

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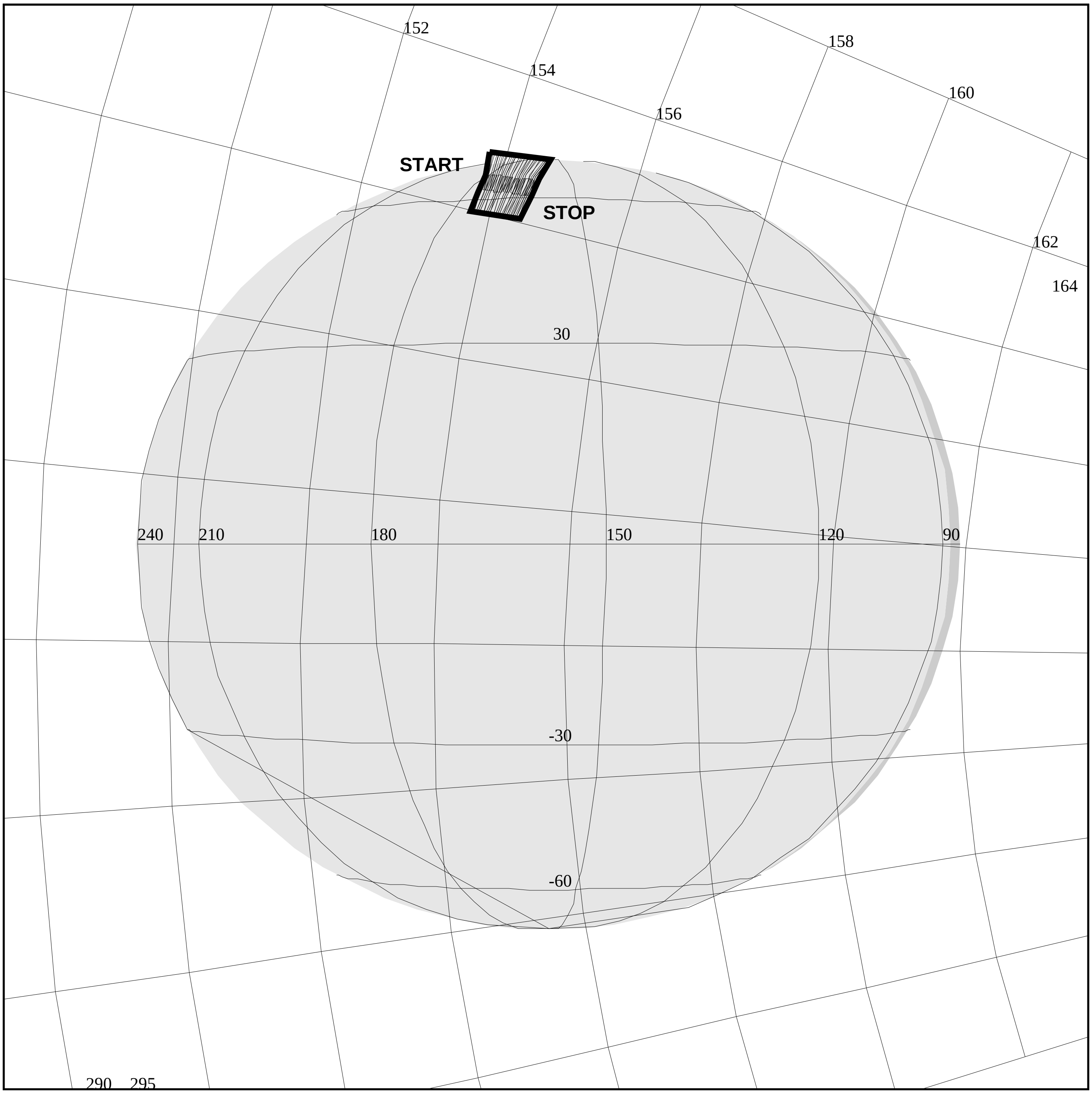

165EM:TT= 0 TMC= 1 C= -6.50 XC= -2.00 BS= 0/9123 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50=338.37 DEC50= -2.81 cone=153.75 clock=258.56
117EM:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/9123
1:#s= 2 Cs= 7.00 XCs= 0.00 Cr= -14.00 XCr= 8.00 sD= 1056 rD= 48

10JNFEASUB01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-261/23:10:15.933 +CDS 73:00:0

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

OBSERVATION:10JNFEASUB01

DESCRIP:Jup_Camp_Feat_SubSpectra

Jupiter Campaign Feature Sub-Spectra		ACTIVITY ID:	10JNFEASUB01-
		START TIME:	97-262/00:19:01.266

Activity ID: Orbit 10 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 09/19/97 Week 38

Start	JEE+CDS 00000068:00:0	97-262/00:19:01.266	JEE+000/01:08:45.333
End	JEE+CDS 00000085:00:0	97-262/00:36:12.599	JEE+000/01:25:56.666
Duration	00000017:00:0	000/00:17:11.333	000/00:17:11.333

Top Label 10JNFEASUB01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	202	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution map of North Polar Auroral Zone 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 21 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 2 (10 X 18 mrad) area centered on North Polar Auroral Zone campaign feature at 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance about 0.63 million KM. NIMS IFOV = 315 KM.
Map covers 6300 X 11340 KM. About 12 minutes of scanning, accumulating 0.72510 MBTG and using 0.02419 tracks.
Four rims reserved for targetting.

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

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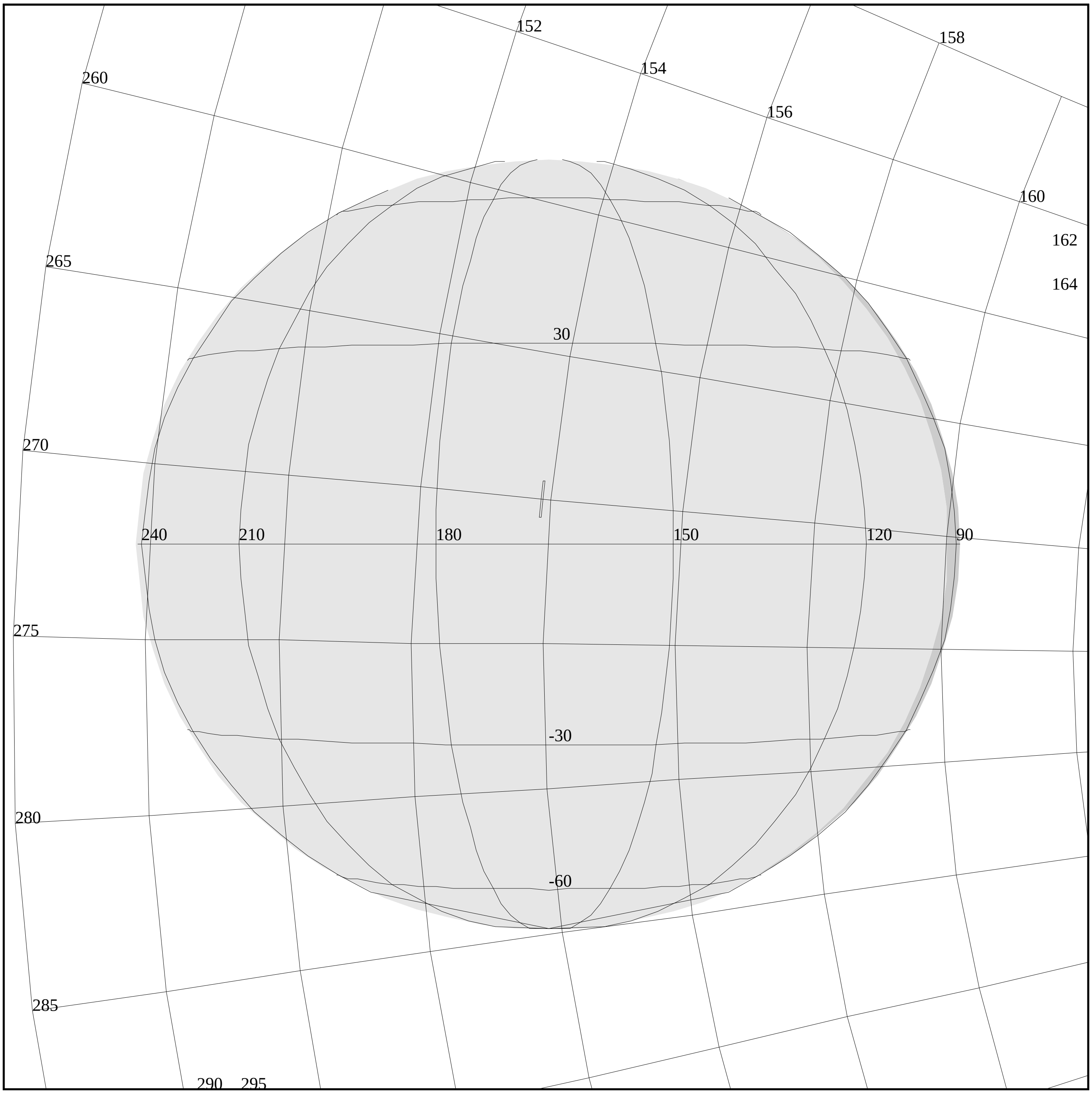


165EY:TT= 0 TMC= 1 C= 0.86 XC= 0.00 BS= 0/2217 TC= 1(6.5 167)
A= 728 pD= 0 SR=17.450 RA50=341.14 DEC50= -7.03 cone=153.87 clock=269.99
117EY:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2217
1:#s= 1 Cs= -1.78 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

10JNRTHOTS03

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNRTHOTS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 90:00:0

OBSERVATION:10JNRTHOTS03

THINNING:NIM 7

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

DESCRIP:JUPITER_REAL_TIMEHOTSPOT_OBS_03

Jupiter Real-Time Hotspot Observation	ACTIVITY ID: 10JNRTHOTS03- START TIME: 97-262/00:36:12.599

Activity ID: Orbit 10 Target J Inst N OAPEL RTHOTS SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	09/19/97	Week 38

Start	JEE+CDS 00000085:00:0	97-262/00:36:12.599	JEE+000/01:25:56.666
End	JEE+CDS 00000093:00:0	97-262/00:44:17.933	JEE+000/01:34:02.000
Duration	00000008:00:0	000/00:08:05.334	000/00:08:05.334

Top Label   10JNRTHOTS03-
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

Long Map spectra of the Hotspot region at approximately 400 km/pixel on Jupiter. Determination of water and phosphine content within the Hotspot are primary objectives.

Data Returned

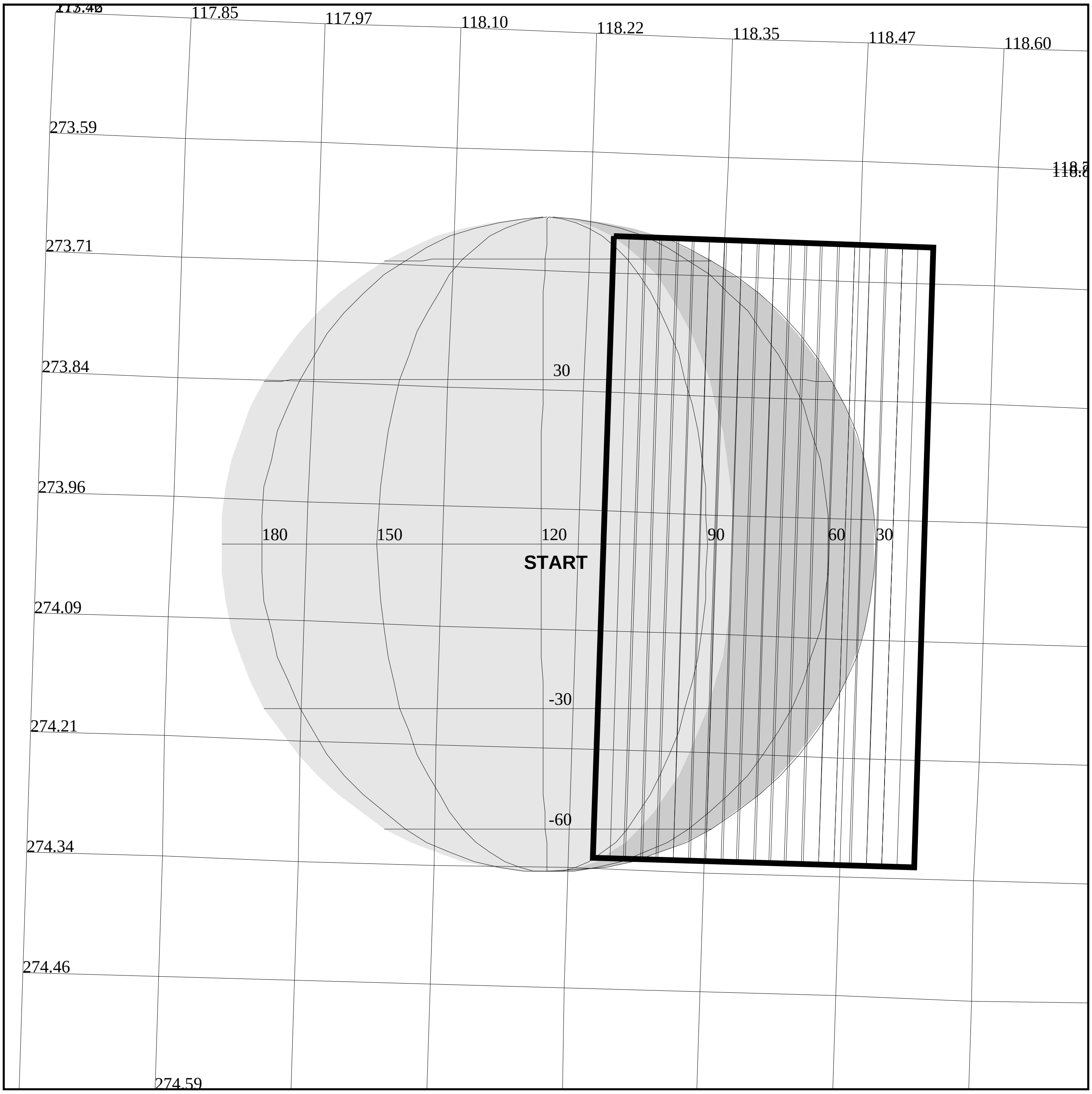
Design Detail

Long Map real-time 1-RIM spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 285 degrees West longitude, 6.5 degrees North latitude.
Acquired near the central meridian at approximately 93 degrees phase angle.
Spatial resolution: 435 km/pixel.

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

Long Map (LM), Gain 4, Grating Start 0, R/T, RT408

Galileo Activity Plan Form   08/20/97 15:06:42   rev 6/95



165EO:TT= 0 TMC= 1 C= 1.00 XC= 0.00 BS= 0/4947 TC= 3
A= 546 pD= 512 SR=17.450 RA50= 13.82 DEC50= 7.58 cone=118.25 clock=274.00
117EO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4947
1:#s= 1 Cs= 4.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 30

10INTHRMAL02

DESIGN G3.2 lisac: 9/26/1997 12:18:16

FILE:P.10INTHRMAL02

TARGET BODY : IO

MINI:m.10INTHRMAL02

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933 -CDS 225:00:0

OBSERVATION:10INTHRMAL02

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.600

DESCRIP:MONITORING OF IO'S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE		**ACTIVITY ID:**	**10INTHRMAL02-**
		START TIME:	**97-262/00:52:23.267**

Activity ID: Orbit 10 Target I Inst N OAPEL THRMAL SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	IEE-CDS 00000229:00:0	97-262/00:52:23.267	IEE-000/03:51:32.666
End	IEE-CDS 00000221:06:0	97-262/01:00:24.600	IEE-000/03:43:31.333
Duration	00000007:85:0	000/00:08:01.333	000/00:08:01.333

Top Label 10INTHRMAL02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	174	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

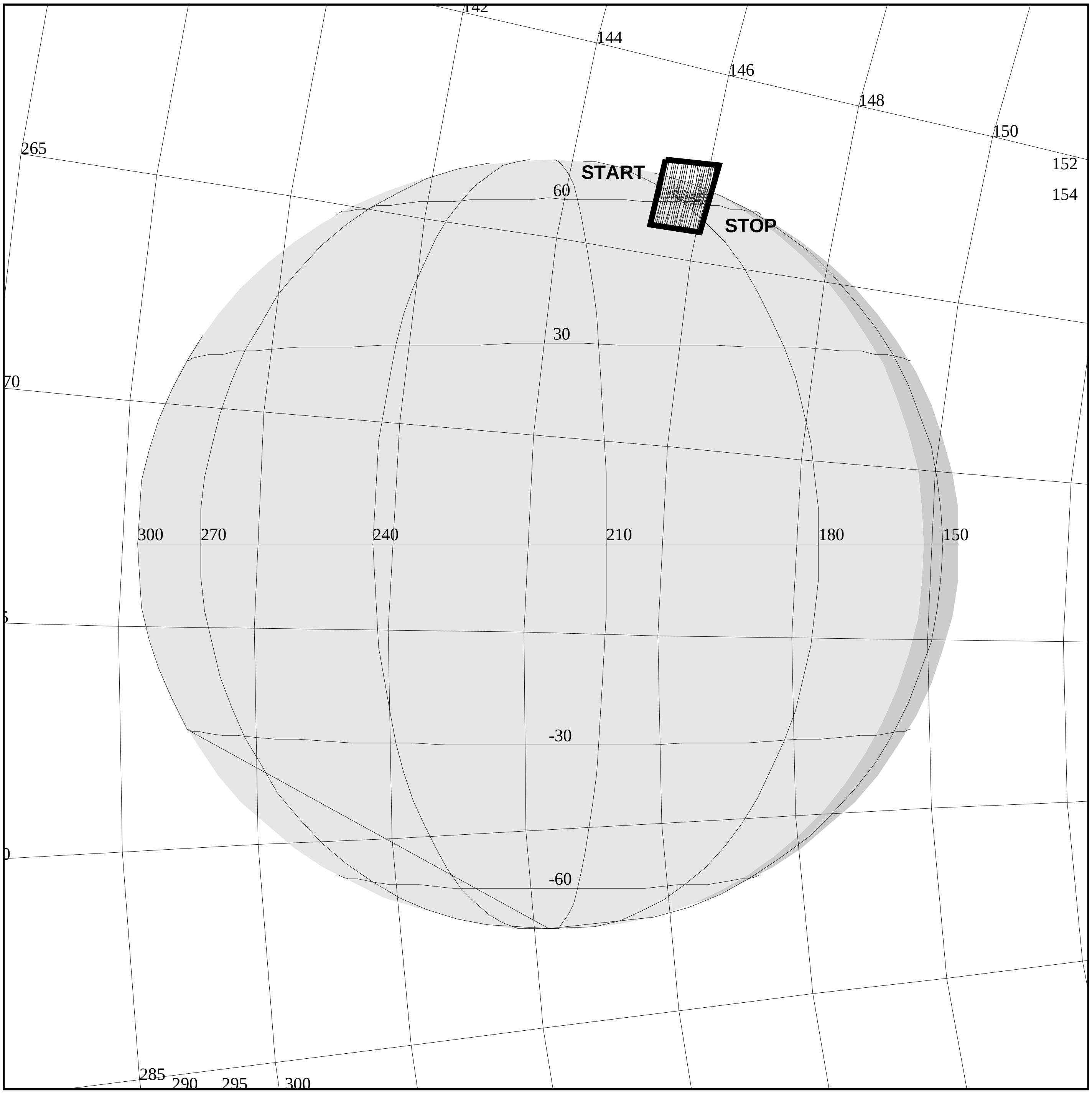
Design Detail

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: 228,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.

Long Map (LM), Gain 4, Grating Start 0, MPW, ILM442, ILM408

Galileo Activity Plan Form 08/20/97 15:06:42 rev 6/95



165EP:TT=   0 TMC= 1 C=   -7.00 XC=   -2.00 BS= 0/0417 TC= 1(65   170   )
   A= 728 pD=   0 SR=17.450 RA50=346.37 DEC50= 0.55 cone=145.37 clock=262.99
117EP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0417
   1:#s= 2 Cs=   10.80 XCs=   0.00 Cr= -13.20 XCr=   8.00 sD=   300 rD=   40

10JNFEA02102

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA02102

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933   +CDS 190:00:0

OBSERVATION:10JNFEA02102

THINNING:NIM   2

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

DESCRIP:Jup_Fea_trk_21_deg_phase_02

Jupiter Feature Track 21 deg phase pt 2 ACTIVITY ID: 10JNFEA02102-
START TIME: 97-262/02:17:19.266

Activity ID: Orbit 10 Target J Inst N OAPEL FEA021 SeqNo 02 -

Title	Jupiter Feature Track 21 deg phase pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000185:00:0	97-262/02:17:19.266	JEE+000/03:07:03.333
End	JEE+CDS 00000194:00:0	97-262/02:26:25.266	JEE+000/03:16:09.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 10JNFEA02102-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the second of three observations obtained on a rotation with phase angle approximately 21 degrees. Jupiter imaged in 19 colors, using NIMS downlink wavelength table JFT19A. This observation acquired with North Polar Auroral zone feature near the terminator, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

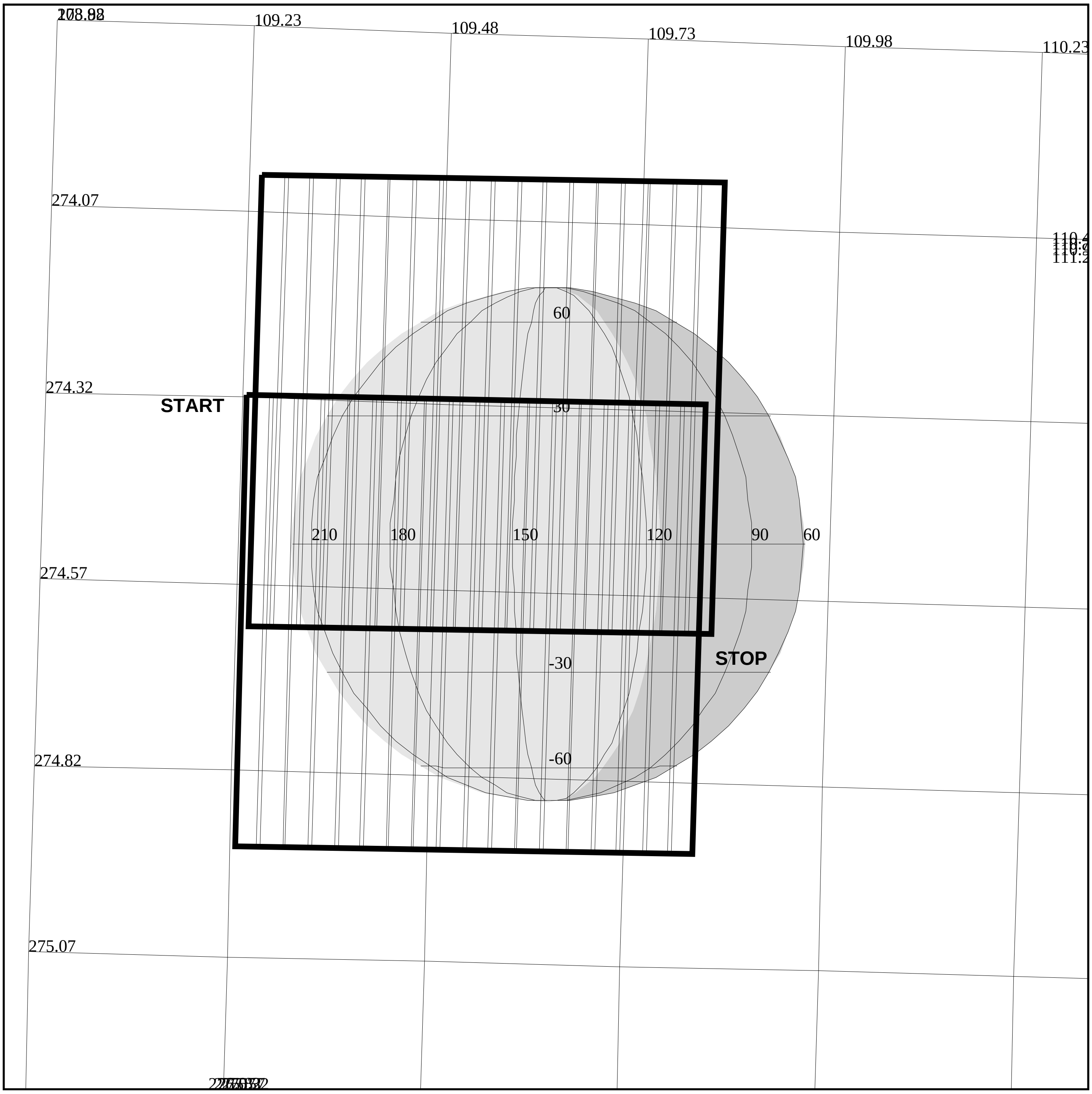
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 0.65 million KM, NIMS IFOV (NIMSel) = 325 KM; 1 X 2 mosaic covers 6500 X 11700 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.19762 MBTG in 19 colors, and using 0.00739 tracks. Four rims reserved for targetting.

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

Galileo Activity Plan Form 08/20/97 15:06:43 rev 6/95



165EQ:TT= 0 TMC= 1 C= -6.50 XC= -3.00 BS= 0/5715 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 22.18 DEC50= 11.21 cone=109.25 clock=274.33
117EQ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5715
1:#s= 2 Cs= 9.00 XCs= 0.00 Cr= -10.10 XCr= 5.00 sD= 910 rD= 30

10INHRSPEC01

DESIGN G3.2 lisac: 9/26/1997 12:16: 2

FILE:P.10INHRSPEC01

TARGET BODY : IO

MINI:m.10INHRSPEC01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933 -CDS 1:00:0

OBSERVATION:10INHRSPEC01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.470

DESCRIP:HI SPATIAL AND SPECTRAL IO OBS

HIGH SPATIAL & SPECTRAL OBS. OF IO — ACTIVITY ID: 10INHRSPEC01-
START TIME: 97-262/04:38:52.600

Activity ID: Orbit 10 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	HIGH SPATIAL & SPECTRAL OBS. OF IO			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date 09/19/97	Week 38

Start	IEE-CDS 00000005:00:0	97-262/04:38:52.600	IEE-000/00:05:03.333
End	IEE+CDS 00000010:00:0	97-262/04:54:02.599	IEE+000/00:10:06.666
Duration	00000015:00:0	000/00:15:09.999	000/00:15:09.999

Top Label 10INHRSPEC01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

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

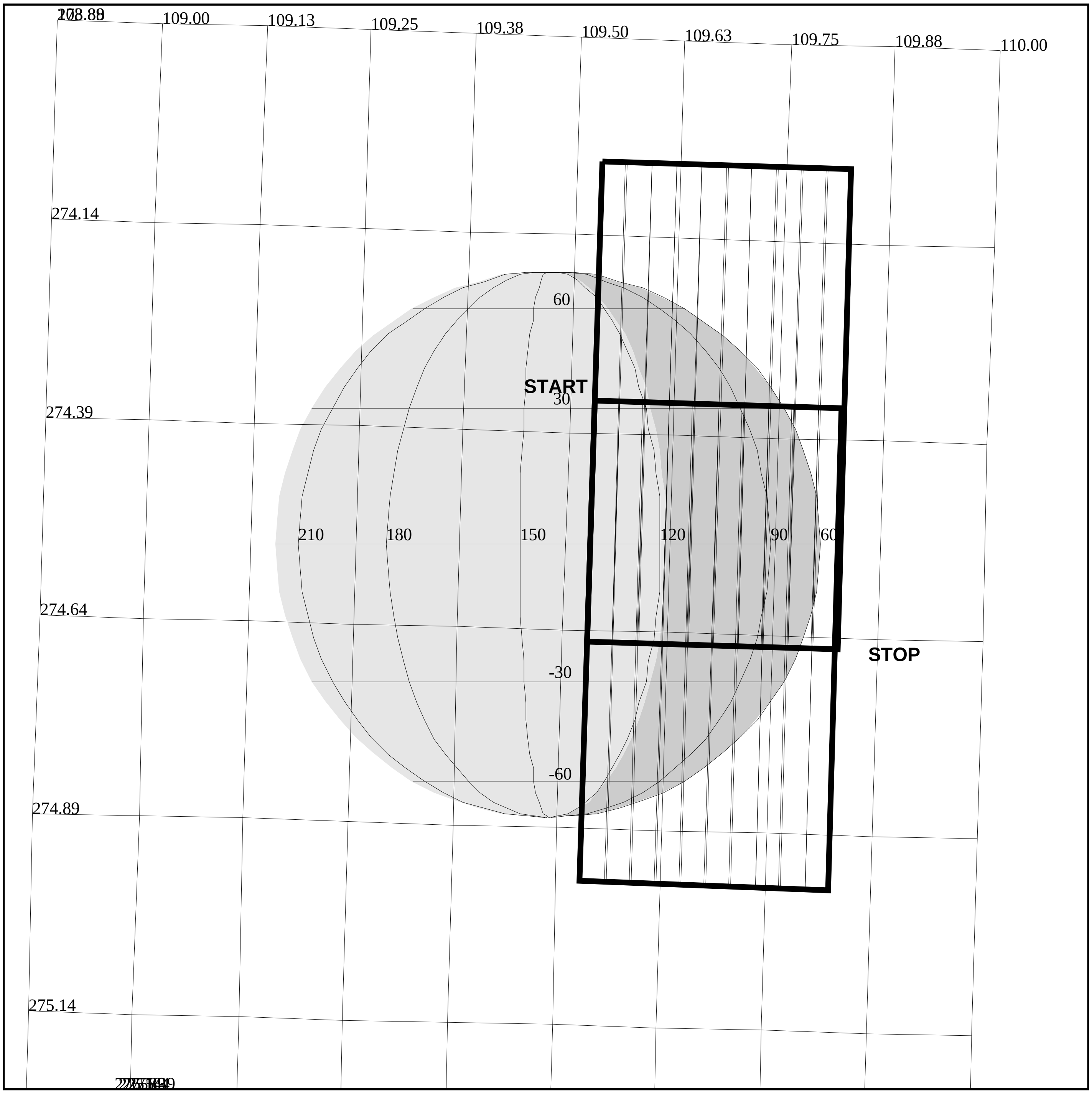
Data Returned

Design Detail

Global mosaic in Long Map (408 wavelengths).

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILM360

Galileo Activity Plan Form   08/20/97 15:06:43   rev 6/95



165ER:TT= 0 TMC= 1 C= 1.00 XC= -3.00 BS= 0/8263 TC= 3
A= 546 pD= 1010 SR=17.450 RA50= 21.92 DEC50= 11.08 cone=109.54 clock=274.35
117ER:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8263
1:#s= 2 Cs= 4.80 XCs= 0.00 Cr= -4.80 XCr= 5.00 sD= 488 rD= 34

10INNSPEC_01

DESIGN G3.2 lisac: 9/26/1997 12:17:21

FILE:P.10INNSPEC_01

TARGET BODY : IO

MINI:m.10INNSPEC_01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933 +CDS 13:00:0

OBSERVATION:10INNSPEC_01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 1010 S= 0.500

DESCRIP:HI SPATIAL AND SPECTRAL IO OBS

NIGHTSIDE SPECTRA AT HIGH RESOLUTION ACTIVITY ID: 10INNSPEC 01-
START TIME: 97-262/04:54:02.599

Activity ID: Orbit 10 Target I Inst N OAPEL NSPEC SeqNo 01 -

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

Time System CDS Load ID Calendar Date 09/19/97 Week 38

Start	IEE+CDS 00000010:00:0	97-262/04:54:02.599	IEE+000/00:10:06.666
End	IEE+CDS 00000019:47:0	97-262/05:03:39.933	IEE+000/00:19:44.000
Duration	00000009:47:0	000/00:09:37.334	000/00:09:37.334

Top Label 10INNSPEC 01-
Bottom Label

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

Observation Objective

Nightside spectra at high spectral resolution and relatively high spatial resolution to look for both known and yet unknown spectral features.

Data Returned

Design Detail

Long Map (408 wavelengths).

Long Map (LM), Gain 4, Grating Start 0, MPW, ILM442, ILM360

Galileo Activity Plan Form 08/20/97 15:06:43 rev 6/95

NIMS Health Observation No. 3	ACTIVITY ID: 10NNHEALTH03-
	START TIME: 97-262/05:27:24.599

Activity ID: Orbit 10 Target N Inst N OAPEL HEALTH SeqNo 03 -

Title	NIMS Health Observation No. 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000373:00:0	97-262/05:27:24.599	JEE+000/06:17:08.666
End	JEE+CDS 00000379:00:0	97-262/05:33:28.599	JEE+000/06:23:12.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label 10NNHEALTH03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	PA	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 anbd dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. The scan platform is at the enfd of the slew of the previous observation:

Long Map (LM), Gain 2, Grating Start 0, R/T, RTRCVY3

Galileo Activity Plan Form 08/20/97 15:06:43 rev 6/95

NIMS Software Reload	ACTIVITY ID: 10NNRELOAD06- START TIME: 97-262/07:43:54.599

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 06 -

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

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000508:00:0	97-262/07:43:54.599	JEE+000/08:33:38.666
End	JEE+CDS 00000518:00:0	97-262/07:54:01.266	JEE+000/08:43:45.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 10NNRELOAD06-
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

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

Memory reload 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 reinitialize 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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SCITURN		ACTIVITY ID:	10JNSCITRN01-
		START TIME:	97-262/08:04:07.933

Activity ID: Orbit 10 Target J Inst N OAPEL SCITRN SeqNo 01 -

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

Time System CDS Load ID Calendar Date 09/19/97 Week 38

Start	JEE+CDS 00000528:00:0	97-262/08:04:07.933	JEE+000/08:53:52.000
End	JEE+CDS 00002329:71:0	97-263/14:25:55.933	JEE+001/15:15:40.000
Duration	00001801:71:0	001/06:21:48.000	001/06:21:48.000

Top Label 10JNSCITRN01-
Bottom Label

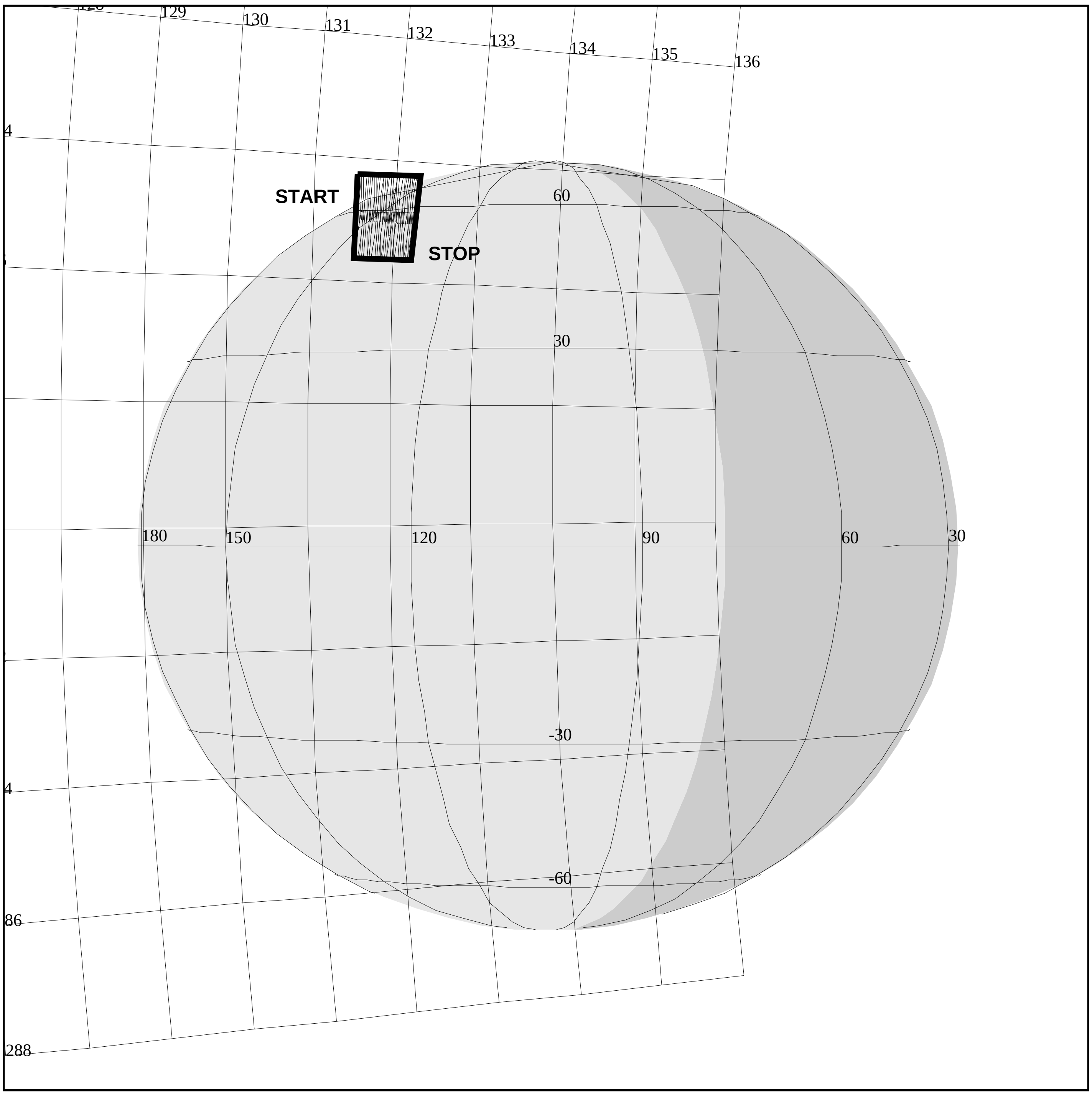
Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

Science turn to obtain boomless views of Jupiter's night side. THRMNS, THRCYL, FEA53M, FEB5UM, UM3MAP, SPAURN OAPELs all obtained without boom obscuration during this period.

Design Detail

Science observations acquired for 24 hours (last few hours of the 24 are for UVS tour observations). Turn starts 3 hours prior to first science observation. Turn back to Earthline also takes 3 hours. 30 hours total. S/C turned so that 90 degrees cone angle reached at 263/05:35, i.e. at end of last NIMS nightside observation, to ensure boomless data.



165ES:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/4319 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 24.59 DEC50= 16.53 cone=131.54 clock=274.63
117ES:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4319
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -12.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA07401

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA07401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 651:00:0

OBSERVATION:10JNFEA07401

THINNING:NIM 2

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

DESCRIP:Jup_Fea_trk_74_deg_phase_01

Jupiter Feature Track 74 deg phase pt 1	ACTIVITY ID: 10JNFEA07401- START TIME: 97-262/10:03:26.599

Activity ID: Orbit 10 Target J Inst N OAPEL FEA074 SeqNo 01 -

Title	Jupiter Feature Track 74 deg phase pt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 09/19/97	Week 38

Start	JEE+CDS 00000646:00:0	97-262/10:03:26.599	JEE+000/10:53:10.666
End	JEE+CDS 00000655:00:0	97-262/10:12:32.599	JEE+000/11:02:16.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label   10JNFEA07401-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the first of three observations obtained on a rotation with phase angle approximately 74 degrees.
Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A.
This observation acquired with North Polar Auroral zone feature near the morning limb, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

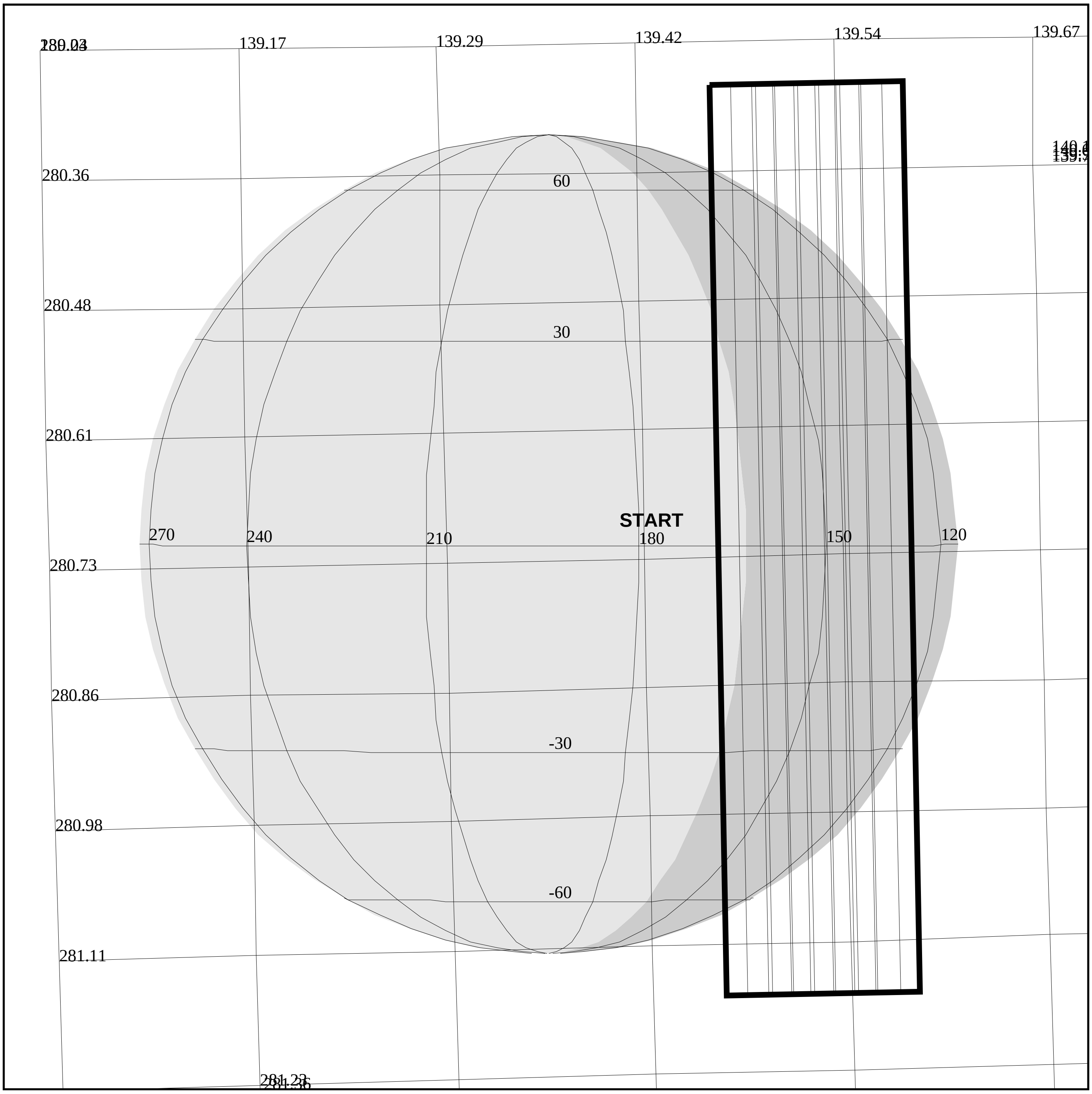
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 0.81 million KM, NIMS IFOV (NIMSel) = 405 KM;
1 X 2 mosaic covers 8100 X 14580 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.05619 MBTG in 4 colors, and using 0.00739 tracks.
Four rims reserved for targetting.

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

Galileo Activity Plan Form   08/20/97 15:06:43   rev 6/95



165ET:TT= 0 TMC= 1 C= 2.00 XC= 0.00 BS= 0/5957 TC= 3
A= 364 pD= 0 SR=17.450 RA50= 18.95 DEC50= 9.39 cone=139.47 clock=280.72
117ET:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5957
1:#s= 1 Cs= 2.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 216 rD= 30

10INVOLCAN03

DESIGN G3.2 lisac: 9/26/1997 12:19:27

FILE:P.10INVOLCAN03

TARGET BODY : IO

MINI:m.10INVOLCAN03

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933 +CDS 330:00:0

OBSERVATION:10INVOLCAN03

THINNING:NIM 1

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

DESCRIP:MONITORING OF VOLCANIC REGIONS

MONITORING OF SELECTED VOLCANIC REGIONS	ACTIVITY ID: 10INVOLCAN03- START TIME: 97-262/10:14:33.933

Activity ID: Orbit 10 Target I Inst N OAPEL VOLCAN SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date 09/19/97	Week 38

Start	IEE+CDS 00000327:00:0	97-262/10:14:33.933	IEE+000/05:30:38.000
End	IEE+CDS 00000331:41:0	97-262/10:19:03.933	IEE+000/05:35:08.000
Duration	00000004:41:0	000/00:04:30.000	000/00:04:30.000

Top Label	10INVOLCAN03-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	181	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

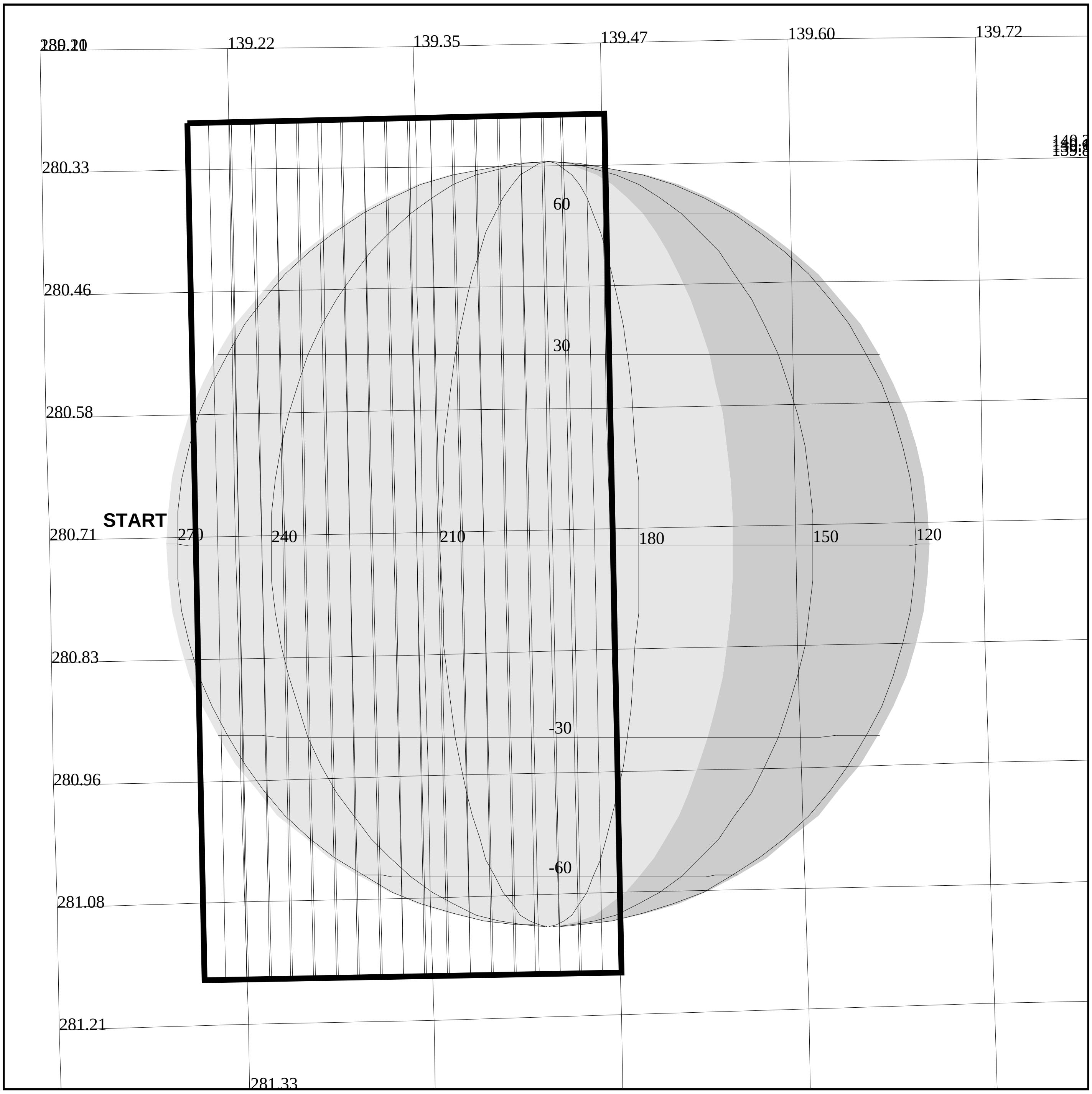
Long Map, 102 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.

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, ILMDK243D, ILMDK102D

Galileo Activity Plan Form 08/20/97 15:06:43 rev 6/95



165EU:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/7231 TC= 3
A= 546 pD= 464 SR=17.450 RA50= 19.21 DEC50= 9.49 cone=139.20 clock=280.72
117EU:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7231
1:#s= 1 Cs= 4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 464 rD= 2

10INCHEMIS05

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10INCHEMIS05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933 +CDS 337:00:0

OBSERVATION:10INCHEMIS05

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 464 S= 0.700

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: 10INCHEMIS05- START TIME: 97-262/10:21:38.599

Activity ID: Orbit 10 Target I Inst N OAPEL CHEMIS SeqNo 05 -

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

Time System CDS Load ID Calendar Date 09/19/97 Week 38

Start	IEE+CDS 00000334:00:0	97-262/10:21:38.599	IEE+000/05:37:42.666
End	IEE+CDS 00000339:62:0	97-262/10:27:23.266	IEE+000/05:43:27.333
Duration	00000005:62:0	000/00:05:44.667	000/00:05:44.667

Top Label 10INCHEMIS05-
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

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

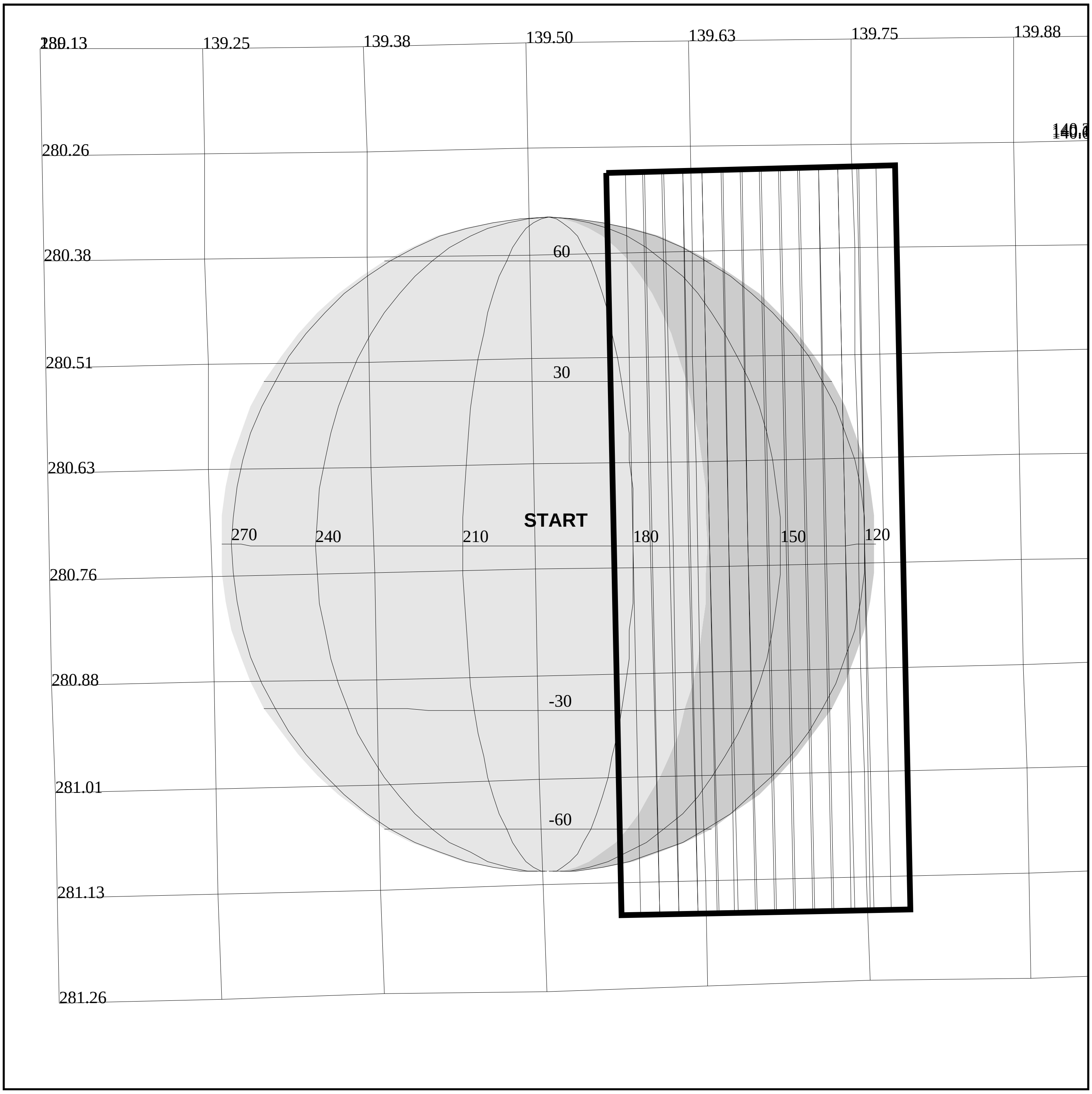
Design Detail

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, 228 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, ILM243C, ILM228C

Galileo Activity Plan Form 08/20/97 15:06:44 rev 6/95



165EV:TT= 0 TMC= 1 C= 1.00 XC= 0.00 BS= 0/8687 TC= 3
A= 182 pD= 364 SR=17.450 RA50= 18.86 DEC50= 9.34 cone=139.57 clock=280.73
117EV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8687
1:#s= 1 Cs= 3.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 30

10INTHRMAL03

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10INTHRMAL03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933 +CDS 345:00:0

OBSERVATION:10INTHRMAL03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 364 S= 0.600

DESCRIP:MONITORING OF IO'S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE	**ACTIVITY ID:**	**10INTHRMAL03-**
	START TIME:	**97-262/10:29:43.933**

Activity ID: Orbit 10 Target I Inst N OAPEL THRMAL SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	IEE+CDS 00000342:00:0	97-262/10:29:43.933	IEE+000/05:45:48.000
End	IEE+CDS 00000348:09:0	97-262/10:35:53.933	IEE+000/05:51:58.000
Duration	00000006:09:0	000/00:06:10.000	000/00:06:10.000

Top Label	10INTHRMAL03-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	174	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

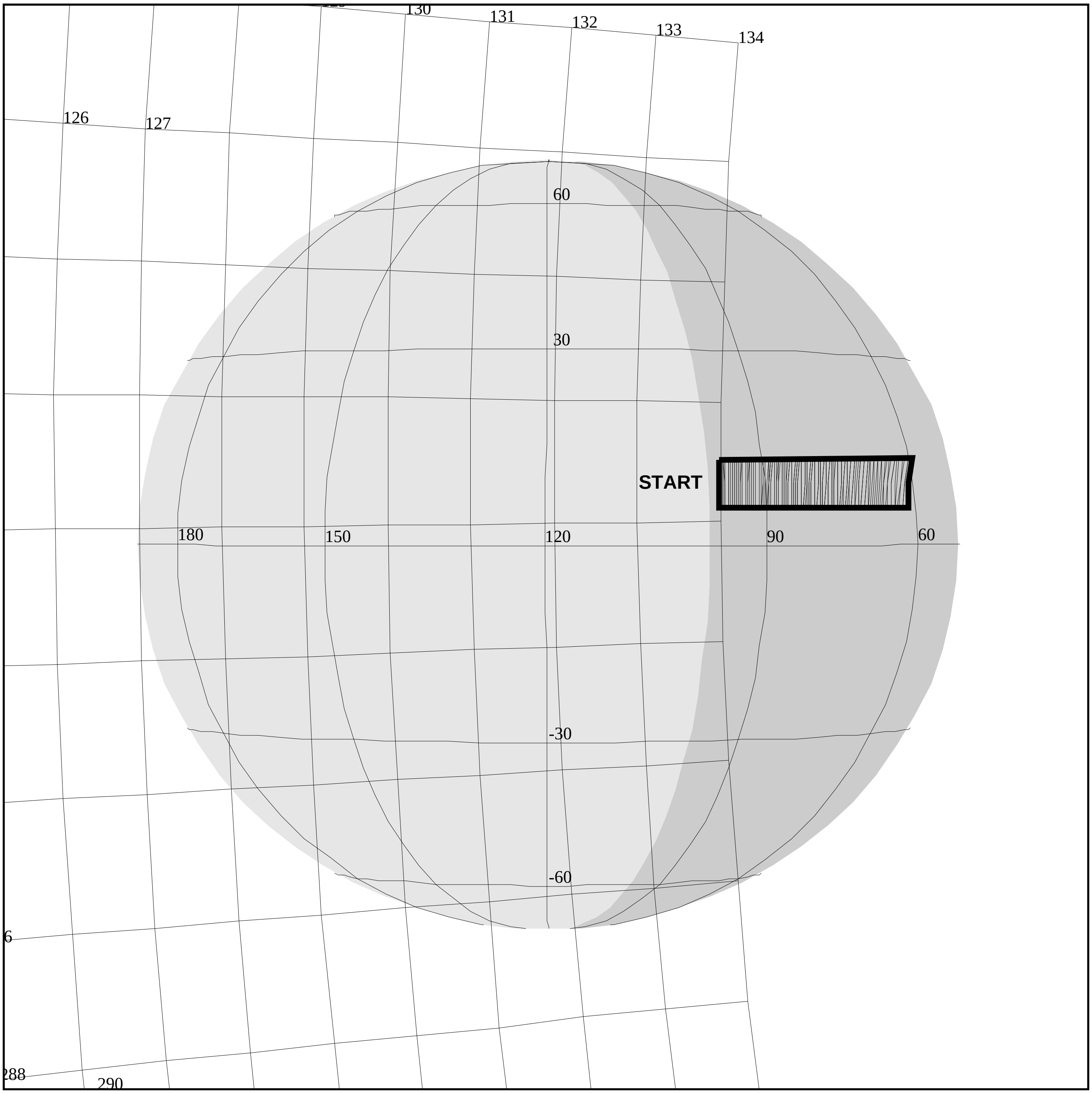
Design Detail

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: 228,
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, ILMDK243D, ILMDK228D

Galileo Activity Plan Form 08/20/97 15:06:44 rev 6/95



165EW:TT= 0 TMC= 1 C= 5.00 XC= 0.00 BS= 0/0143 TC= 1(9 100)
A= 728 pD= 0 SR=17.450 RA50= 23.74 DEC50= 12.34 cone=134.00 clock=279.37
117EW:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/0143
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10JNTHRCYL01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNTHRCYL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 +CDS 683:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNTHRCYL01 **DESCRIP:Jup_Thermal_Cylin_Map_01**

Jupiter Thermal Cylindrical Map prt 1 ACTIVITY ID: 10JNTHRCYL01-
START TIME: 97-262/10:35:47.933

Activity ID: Orbit 10 Target J Inst N OAPEL THRCYL SeqNo 01 -

Title	Jupiter Thermal Cylindrical Map prt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000678:00:0	97-262/10:35:47.933	JEE+000/11:25:32.000
End	JEE+CDS 00000712:00:0	97-262/11:10:10.599	JEE+000/11:59:54.666
Duration	00000034:00:0	000/00:34:22.666	000/00:34:22.666

Top Label 10JNTHRCYL01-
Bottom Label

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

Observation Objective

Part one of 7 OAPELS constituting the Jupiter Cylindrical map of the 6.5 degrees north latitude Hotspot region to assess lower-tropispheric properties such as phosphine and water abundance variation with longitude, and 5-micronmeter variability of ammonia cloud opacity.
Night time observation near 26 degrees relative longitude 10 degrees to the east of the terminator obtained during 74 degree phase angle opportunity near 11.8 Rj using NIMS wavelength table J5M80B spanning 4.279. - 5.22 microns.
Equatorial longitude approximately 100 degrees west longitude.

Data Returned

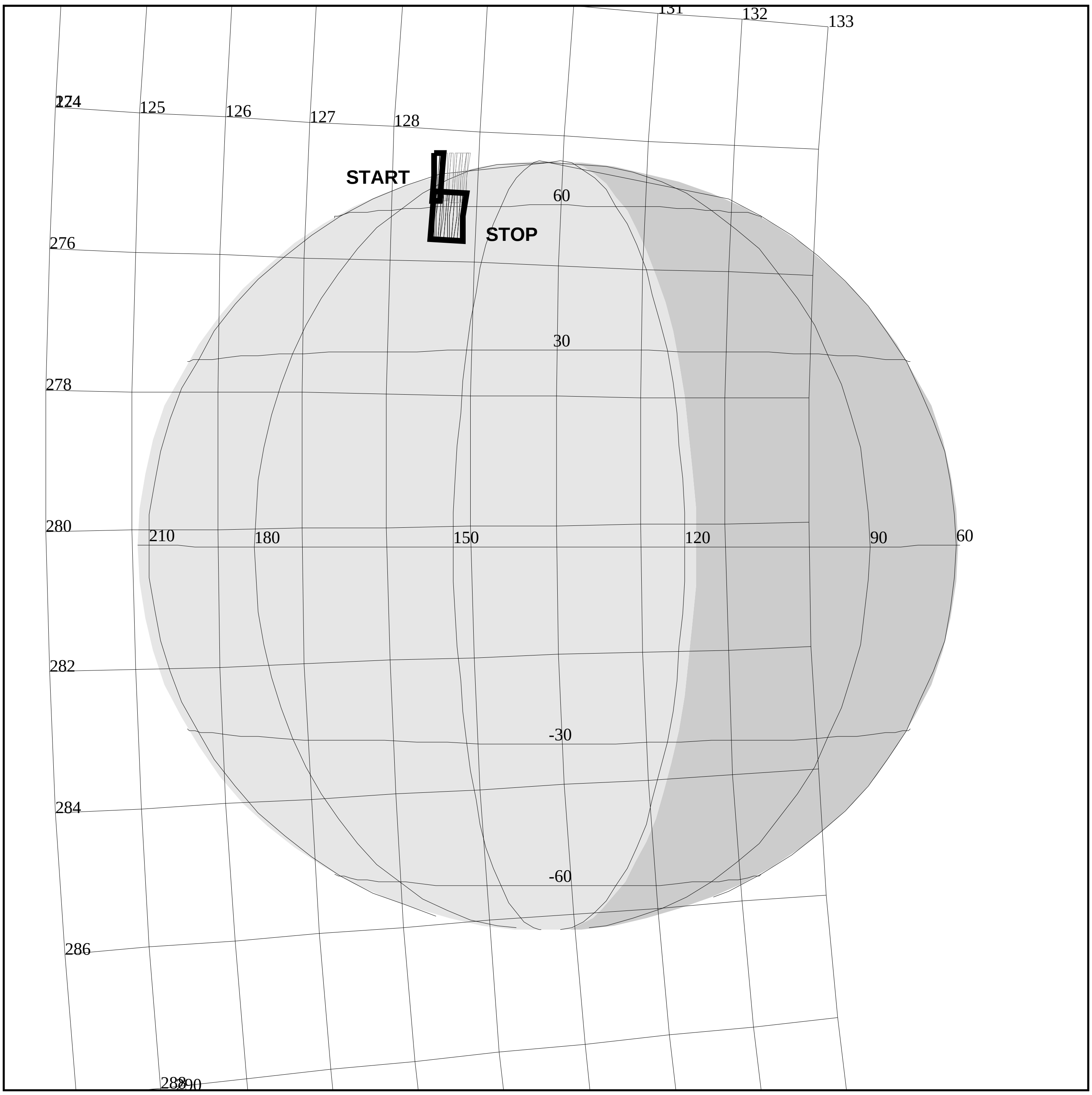
Design Detail

Long map, Nyquist sampled observation of 5 X 1 (50 mrad X 10 mrad) area centered near 6.5 degrees north latitude, 100 degrees west longitude, covering about 30 degrees of longitude at about 420 KM IFOV spatial resolution. Science scan casts 200 X 8.666 = 1732 secs = 28:52 =28:50 CDS accumulating 1.7443 MBTG in 80 colors, and using 0.05819 tracks.
Four rims available for targetting.

NOTE: Duration now about 20 RIMS

Long Map (LM), Gain 4, Grating Start 0, LPU, J5M253B, J5M253B

Galileo Activity Plan Form 08/20/97 15:06:44 rev 6/95



165EX:TT= 0 TMC= 1 C= -3.00 XC= -3.00 BS= 0/6149 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 27.50 DEC50= 17.77 cone=128.49 clock=274.72
117EX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6149
1:#s= 2 Cs= 5.90 XCs= 0.00 Cr= -6.50 XCr= 8.00 sD= 164 rD= 32

10JNFEA07402

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA07402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 716:00:0

OBSERVATION:10JNFEA07402

THINNING:NIM 2

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

DESCRIP:Jup_Fea_trk_74_deg_phase_02

Jupiter Feature Track 74 deg phase pt 2	ACTIVITY ID: 10JNFEA07402- START TIME: 97-262/11:10:10.599

Activity ID: Orbit 10 Target J Inst N OAPEL FEA074 SeqNo 02 -

Title	Jupiter Feature Track 74 deg phase pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97 Week 38

Start	JEE+CDS 00000712:00:0	97-262/11:10:10.599	JEE+000/11:59:54.666
End	JEE+CDS 00000720:00:0	97-262/11:18:15.933	JEE+000/12:08:00.000
Duration	00000008:00:0	000/00:08:05.334	000/00:08:05.334

Top Label 10JNFEA07402-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the second of three observations obtained on a rotation with phase angle approximately 74 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with North Polar Auroral zone feature near minimum airmass, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

Data Returned

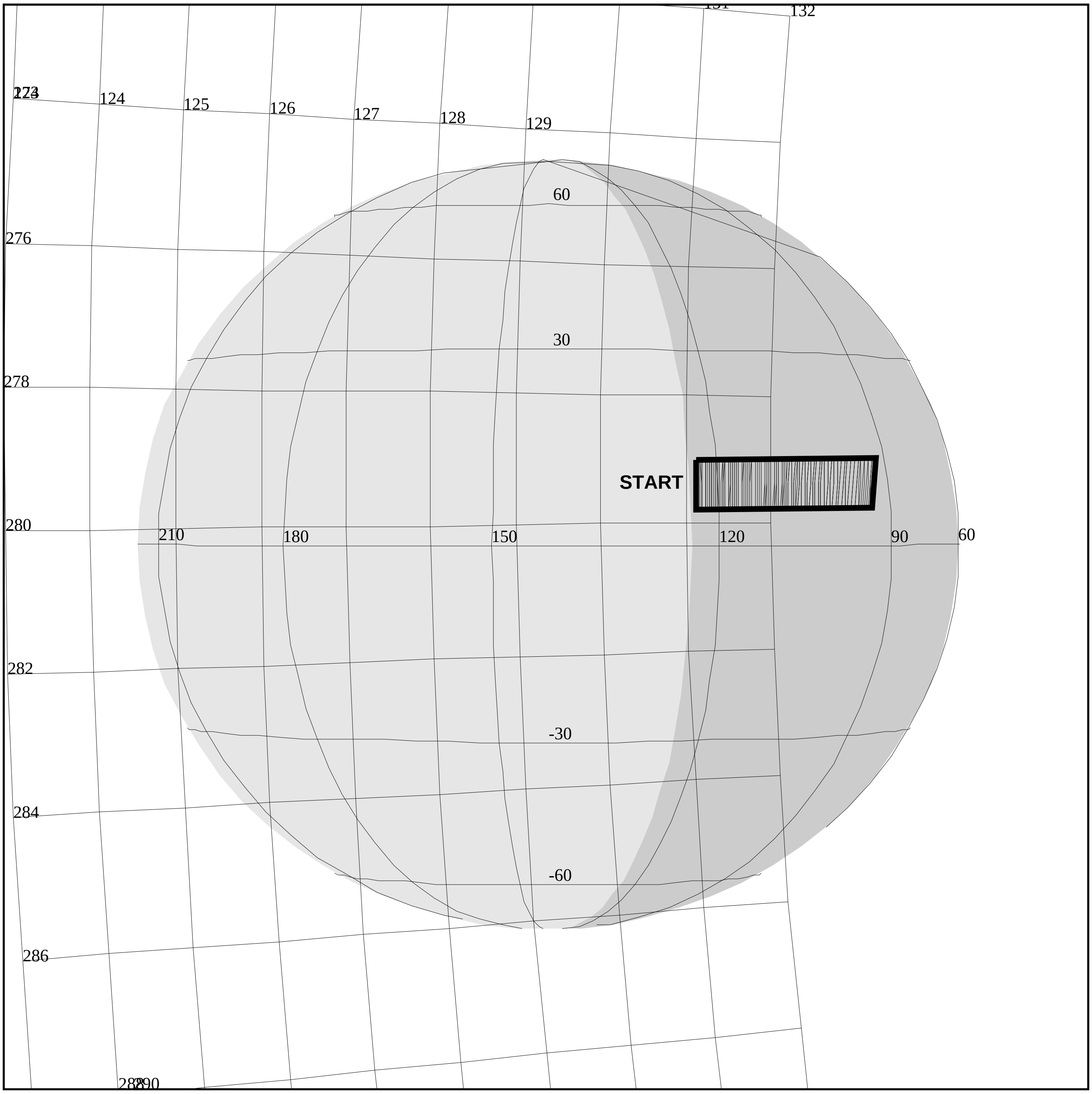
Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 0.82 million KM, NIMS IFOV (NIMSel) = 410 KM; 1 X 2 mosaic covers 8200 X 14760 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.05619 MBTG in 4 colors, and using 0.00739 tracks. Four rims reserved for targetting.

Large portion of top swath lost in data gap.

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

Galileo Activity Plan Form   08/20/97 15:06:44   rev 6/95



165EZ:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/7787 TC= 1(9 125)
A= 728 pD= 0 SR=17.450 RA50= 26.47 DEC50= 13.42 cone=131.13 clock=279.40
117EZ:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/7787
1:#s= 1 Cs= 23.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3600 rD= 2

10JNTHRCYL02

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNTHRCYL02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 725:00:0

OBSERVATION:10JNTHRCYL02

THINNING:NIM 2

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

DESCRIP:Jup_Thermal_Cylin_Map_02

Jupiter Thermal Cylindrical Map prt 2   ACTIVITY ID: 10JNTHRCYL02-
START TIME: 97-262/11:18:15.933

Activity ID: Orbit 10 Target J Inst N OAPEL THRCYL SeqNo 02 -

Title	Jupiter Thermal Cylindrical Map prt 2		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000720:00:0	97-262/11:18:15.933	JEE+000/12:08:00.000
End	JEE+CDS 00000750:00:0	97-262/11:48:35.933	JEE+000/12:38:20.000
Duration	00000030:00:0	000/00:30:20.000	000/00:30:20.000

Top Label   10JNTHRCYL02-
Bottom Label

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

Observation Objective

Part two of 7 OAPELS constituting the Jupiter Cylindrical map of the 6.5 degrees north latitude Hotspot region to assess lower-tropispheric properties such as phosphine and water abundance variation with longitude, and 5-micronmeter variability of ammonia cloud opacity. Night time observation near 26 degrees realtive longitude 10 degrees to the east of the terminator obtained during 74 degree phase angle opportunity near 11.8 Rj using NIMS wavelength table J5M80B spanning 4.279. - 5.22 microns. Equatorial longitude approximately 125 degrees west longitude.

Data Returned

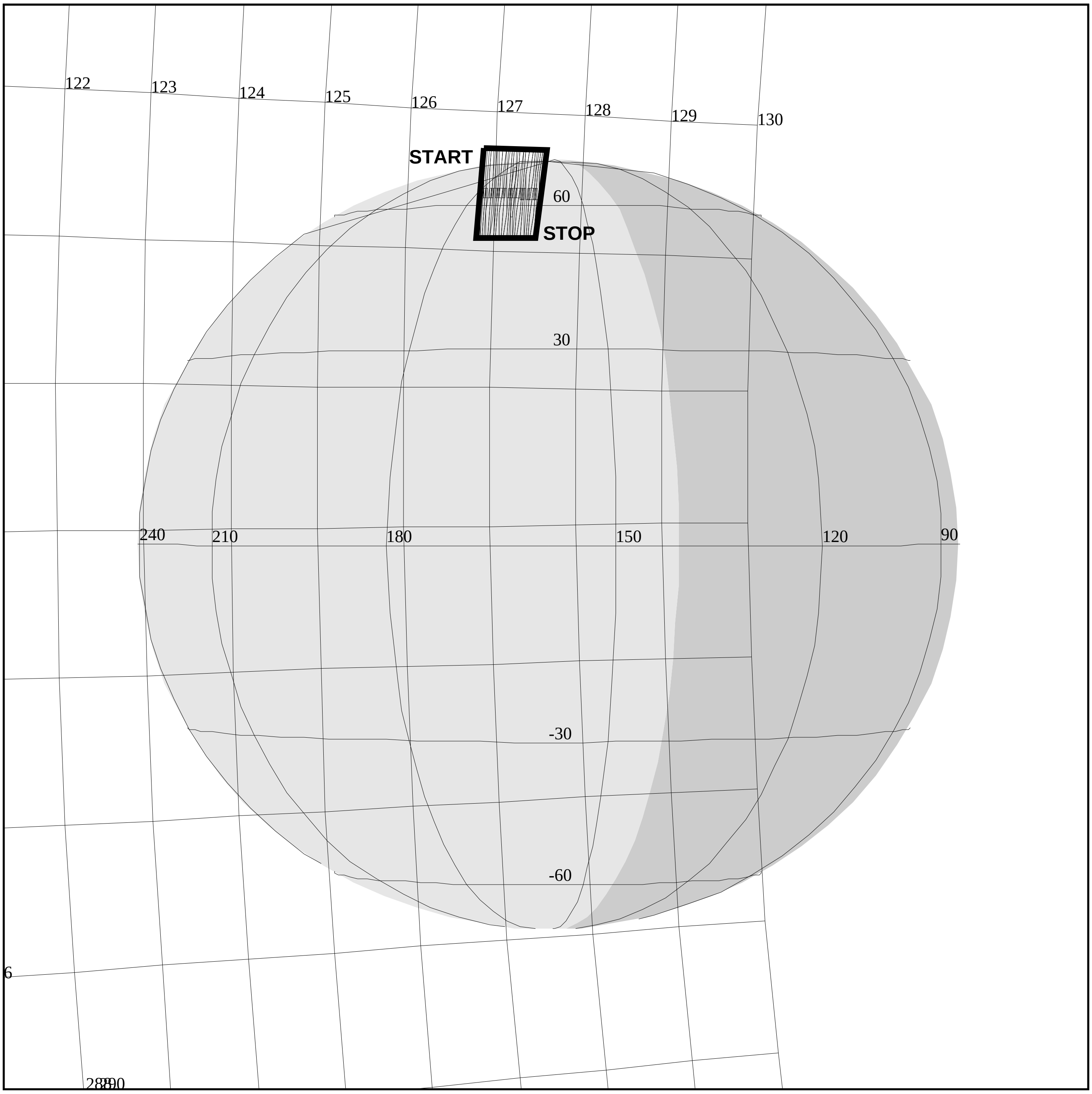
Design Detail

Long map, Nyquist sampled observation of 5 X 1 (50 mrad X 10 mrad) area centered near 6.5 degrees north latitude, 125 degrees west longitude, covering about 30 degrees of longitude at about 420 KM IFOV spatial resolution. Science scan casts 200 X 8.666 = 1732 secs = 28:52 =28:50 CDS accumulating 1.7443 MBTG in 80 colors, and using 0.05819 tracks.

Four rims available for targetting.

NOTE: Duration now about 20 RIMS.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5M253B, J5M127B



165FA:TT= 0 TMC= 1 C= -6.00 XC= -3.00 BS= 0/3065 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 29.13 DEC50= 18.31 cone=126.85 clock=274.89
117FA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3065
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -12.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA07403

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA07403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 754:00:0

OBSERVATION:10JNFEA07403

THINNING:NIM 2

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

DESCRIP:Jup_Fea_trk_74_deg_phase_03

Jupiter Feature Track 74 deg phase pt 3 ACTIVITY ID: 10JNFEA07403-
START TIME: 97-262/11:48:35.933

Activity ID: Orbit 10 Target J Inst N OAPEL FEA074 SeqNo 03 -

Title	Jupiter Feature Track 74 deg phase pt 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000750:00:0	97-262/11:48:35.933	JEE+000/12:38:20.000
End	JEE+CDS 00000758:00:0	97-262/11:56:41.266	JEE+000/12:46:25.333
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label 10JNFEA07403-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the third of three observations obtained on a rotation with phase angle approximately 74 degrees.
Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A.
This observation acquired with North Polar Auroral zone feature near the terminator, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

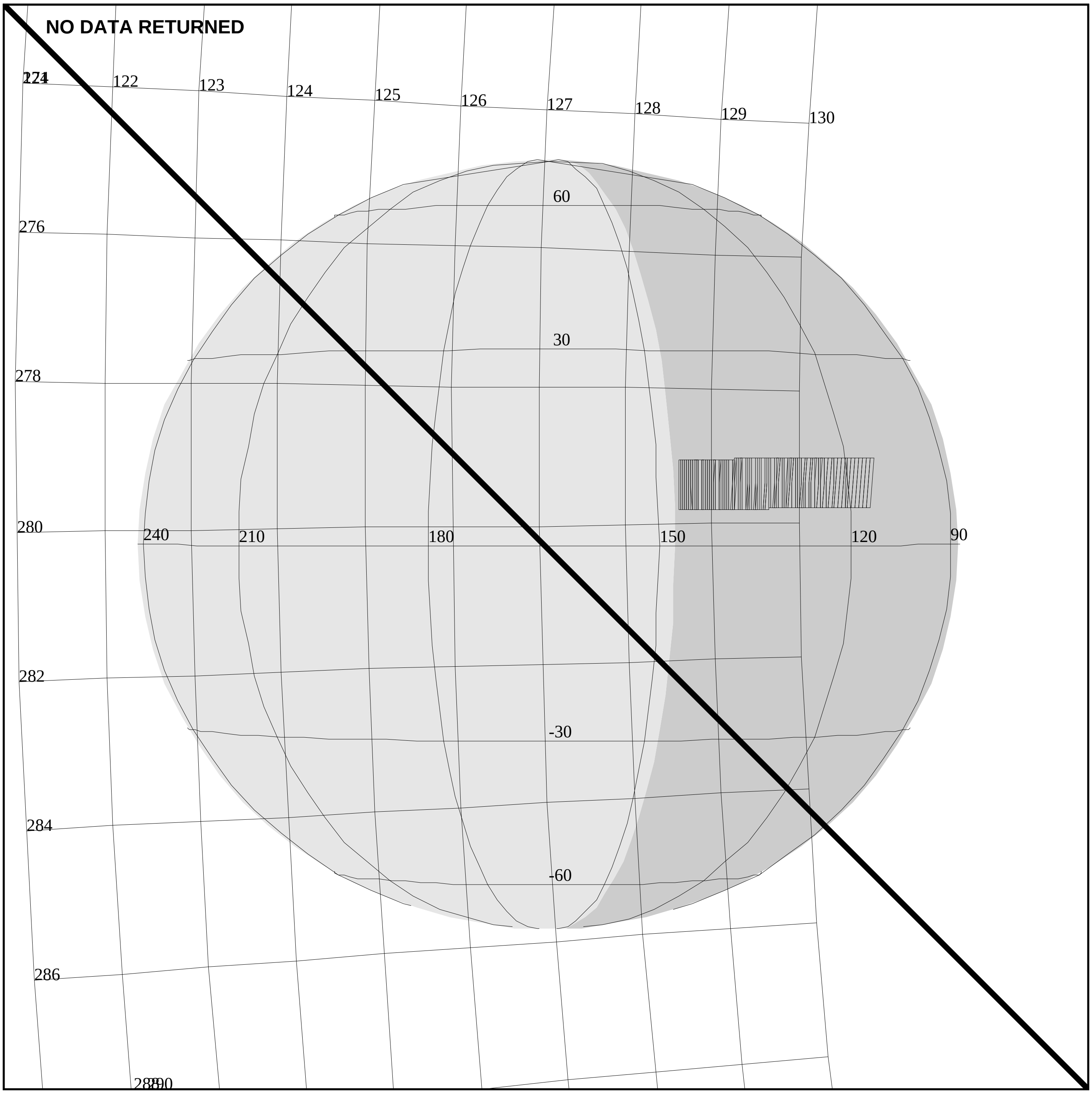
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 0.83 million KM, NIMS IFOV (NIMSel) = 415 KM;
1 X 2 mosaic covers 8300 X 14940 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.05619 MBTG in 4 colors, and using 0.00739 tracks.
Four rims reserved for targetting.

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

Galileo Activity Plan Form 08/20/97 15:06:44 rev 6/95



165FB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/4885 TC= 1(9 147)
A= 182 pD= 0 SR=17.450 RA50= 28.87 DEC50= 14.33 cone=128.62 clock=279.42
117FB:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/4885
1:#s= 1 Cs= 25.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3894 rD= 2

10JNTHRCYL03

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNTHRCYL03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 764:00:0

OBSERVATION:10JNTHRCYL03

THINNING:NIM 2

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

DESCRIP:Jup_Thermal_Cylin_Map_03

Jupiter Thermal Cylindrical Map prt 3		ACTIVITY ID:	10JNTHRCYL03-
		START TIME:	97-262/11:59:43.266

Activity ID: Orbit 10 Target J Inst N OAPEL THRCYL SeqNo 03 -

Title	Jupiter Thermal Cylindrical Map prt 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000761:00:0	97-262/11:59:43.266	JEE+000/12:49:27.333
End	JEE+CDS 00000793:00:0	97-262/12:32:04.599	JEE+000/13:21:48.666
Duration	00000032:00:0	000/00:32:21.333	000/00:32:21.333

Top Label	10JNTHRCYL03-
Bottom Label	

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

Observation Objective

Part three of 7 OAPELS constituting the Jupiter Cylindrical map of the 6.5 degrees north latitude Hotspot region to assess lower-tropispheric properties such as phosphine and water abundance variation with longitude, and 5-micronmeter variability of ammonia cloud opacity.
Night time observation near 26 degrees realtive longitude 10 degrees to the east of the terminator obtained during 74 degree phase angle opportunity near 11.8 Rj using NIMS wavelength table J5M80B spanning 4.279. - 5.22 microns. Equatorial longitude approximately 150 degrees west longitude.

No Data Returned

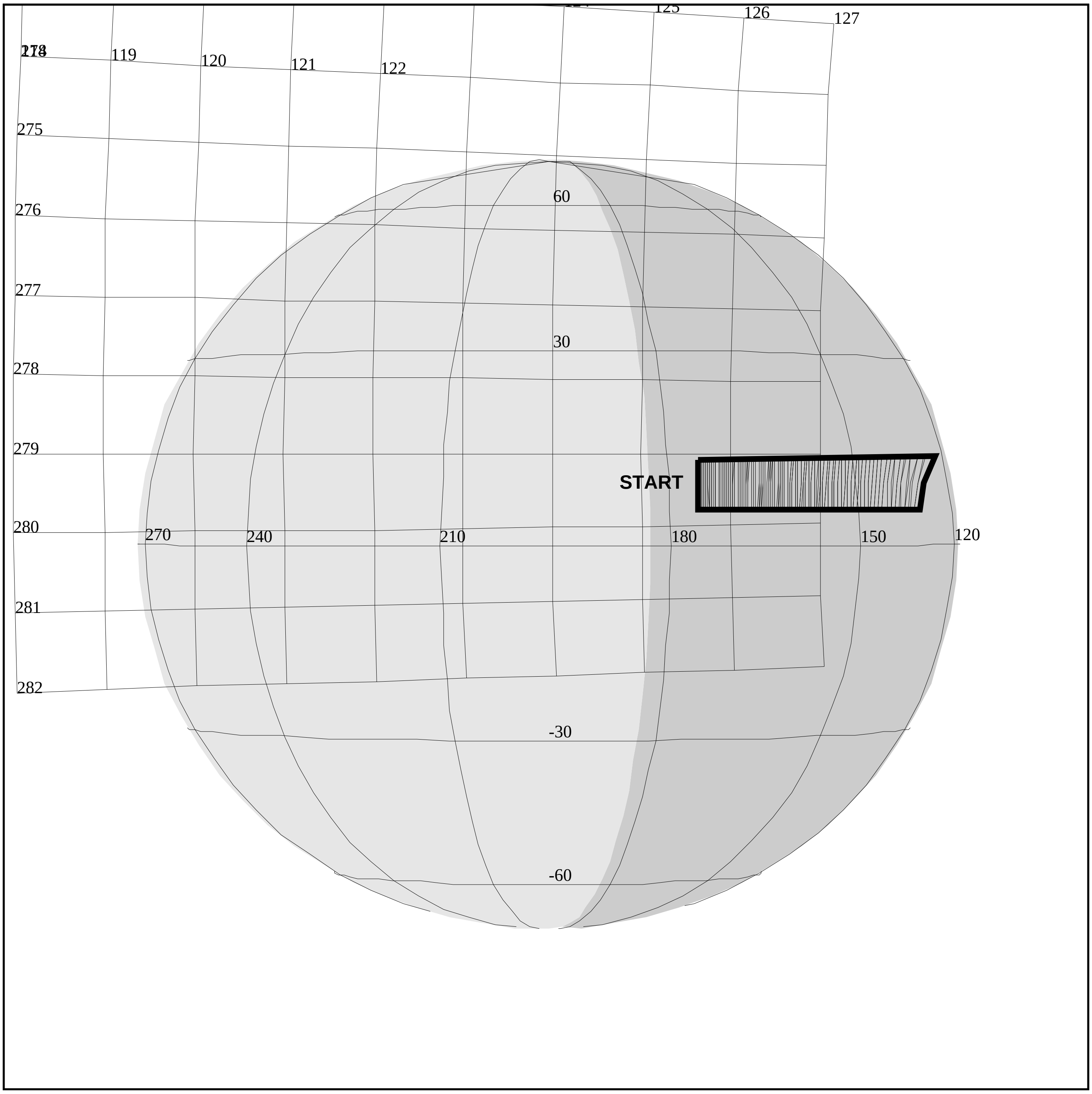
Design Detail

Long map, Nyquist sampled observation of 5 X 1 (50 mrad X 10 mrad) area centered near 6.5 degrees north latitude, 150 degrees west longitude, covering about 30 degrees of longitude at about 420 KM IFOV spatial resolution. Science scan casts 200 X 8.666 = 1732 secs = 28:52 =28:50 CDS accumulating 1.7443 MBTG in 80 colors, and using 0.05819 tracks.
Targetting time has been reduced to 1 rim.

NOTE: Duration now about 21 RIMS.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5M253B, J5M253B

Galileo Activity Plan Form   08/20/97 15:06:44   rev 6/95



165FE:TT= 0 TMC= 1 C= -1.00 XC= 0.00 BS= 0/5259 TC= 1(9 175)
A= 728 pD= 0 SR=17.450 RA50= 31.74 DEC50= 15.38 cone=125.66 clock=279.44
117FE:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5259
1:#s= 1 Cs= 27.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4056 rD= 2

10JNTHRCYL04

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNTHRCYL04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 821:00:0

OBSERVATION:10JNTHRCYL04

THINNING:NIM 2

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

DESCRIP:Jup_Thermal_Cylin_Map_04

Jupiter Thermal Cylindrical Map prt 4	ACTIVITY ID:	10JNTHRCYL04-	
	START TIME:	97-262/12:53:18.599	

Activity ID: Orbit 10 Target J Inst N OAPEL THRCYL SeqNo 04 -

Title	Jupiter Thermal Cylindrical Map prt 4			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00000814:00:0	97-262/12:53:18.599	JEE+000/13:43:02.666
End	JEE+CDS 00000847:00:0	97-262/13:26:40.599	JEE+000/14:16:24.666
Duration	00000033:00:0	000/00:33:22.000	000/00:33:22.000

Top Label	10JNTHRCYL04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	177	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Part four of 7 OAPELS constituting the Jupiter Cylindrical map of the 6.5 degrees north latitude Hotspot region to assess lower-tropispheric properties such as phosphine and water abundance variation with longitude, and 5-micronmeter variability of ammonia cloud opacity.
Night time observation near 26 degrees realtive longitude 10 degrees to the east of the terminator obtained during 74 degree phase angle opportunity near 11.8 Rj using NIMS wavelength table J5M80B spanning 4.279. - 5.22 microns. Equatorial longitude approximately 175 degrees west longitude.

Data Returned

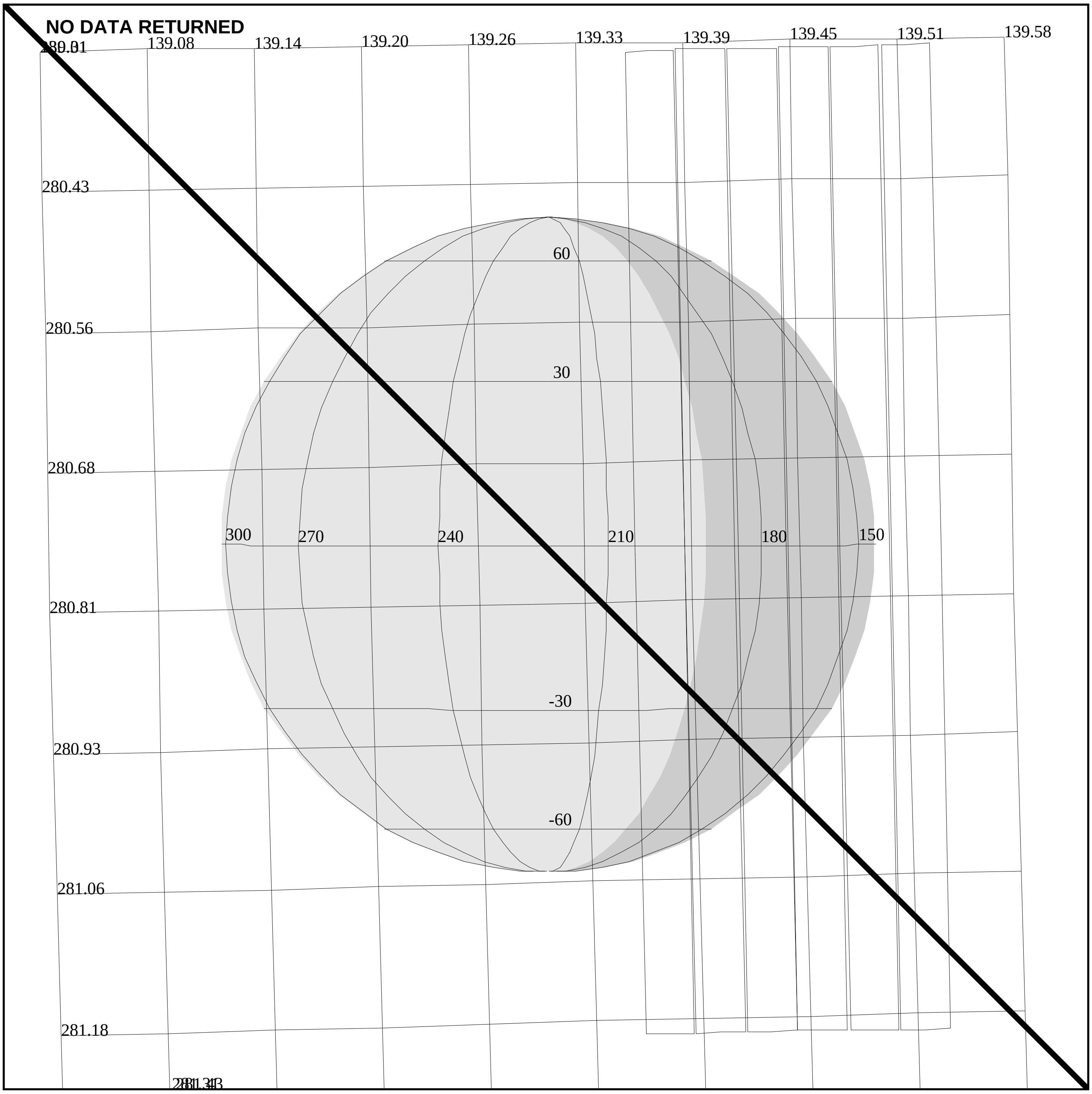
Design Detail

Long map, Nyquist sampled observation of 5 X 1 (50 mrad X 10 mrad) area centered near 6.5 degrees north latitude, 175 degrees west longitude, covering about 30 degrees of longitude at about 420 KM IFOV spatial resolution. Science scan casts 200 X 8.666 = 1732 secs = 28:52 =28:50 CDS accumulating 1.7443 MBTG in 80 colors, and using 0.05819 tracks.
Four rims available for targetting.

NOTE: Duration now about 22 RIMS.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5M253B, J5M253B

Galileo Activity Plan Form   08/20/97 15:06:44   rev 6/95



165FD:TT= 0 TMC= 1 C= 1.00 XC= 0.00 BS= 0/1447 TC= 3
A= 182 pD= 364 SR=17.450 RA50= 19.07 DEC50= 9.41 cone=139.36 clock=280.76
117FD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1447
1:#s= 1 Cs= 2.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 288 rD= 30

10INTHRMAL04

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10INTHRMAL04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933 +CDS 525:00:0

OBSERVATION:10INTHRMAL04

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 364 S= 0.600

DESCRIP:MONITORING OF IO’S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: 10INTHRMAL04- START TIME: 97-262/13:32:44.599

Activity ID: Orbit 10 Target I Inst N OAPEL THRMAL SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	IEE+CDS 00000523:00:0	97-262/13:32:44.599	IEE+000/08:48:48.666
End	IEE+CDS 00000527:00:0	97-262/13:36:47.266	IEE+000/08:52:51.333
Duration	00000004:00:0	000/00:04:02.667	000/00:04:02.667

Top Label 10INTHRMAL04-
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.

No Data Returned

Design Detail

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

Instrument mode: Long Map,
Number of Wavelengths: 228,
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, ILMDK243D, ILMDK228D

Galileo Activity Plan Form 08/20/97 15:06:45 rev 6/95

NIMS Health Observation No. 4	ACTIVITY ID: 10NNHEALTH04- START TIME: 97-262/13:57:00.599

Activity ID: Orbit 10 Target N Inst N OAPEL HEALTH SeqNo 04 -

Title	NIMS Health Observation No. 4			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week 38

Start	JEE+CDS 00000877:00:0	97-262/13:57:00.599	JEE+000/14:46:44.666
End	JEE+CDS 00000883:00:0	97-262/14:03:04.599	JEE+000/14:52:48.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	10NNHEALTH04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	PA	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 anbd dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. The scan platform is at the enfd of the slew of the previous observation:

Long Map (LM), Gain 2, Grating Start 0, R/T, RTRCVY3

Galileo Activity Plan Form 08/20/97 15:06:45 rev 6/95

NIMS Real-Time Software Reload ACTIVITY ID: 10NNRELOAD07-
START TIME: 97-262/19:09:26.599

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 07 -

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

Time System CDS Load ID Calendar Date 09/19/97 Week 38

Start	IEE+CDS 00000856:00:0	97-262/19:09:26.599	IEE+000/14:25:30.666
End	IEE+CDS 00000866:00:0	97-262/19:19:33.266	IEE+000/14:35:37.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 10NNRELOAD07-
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

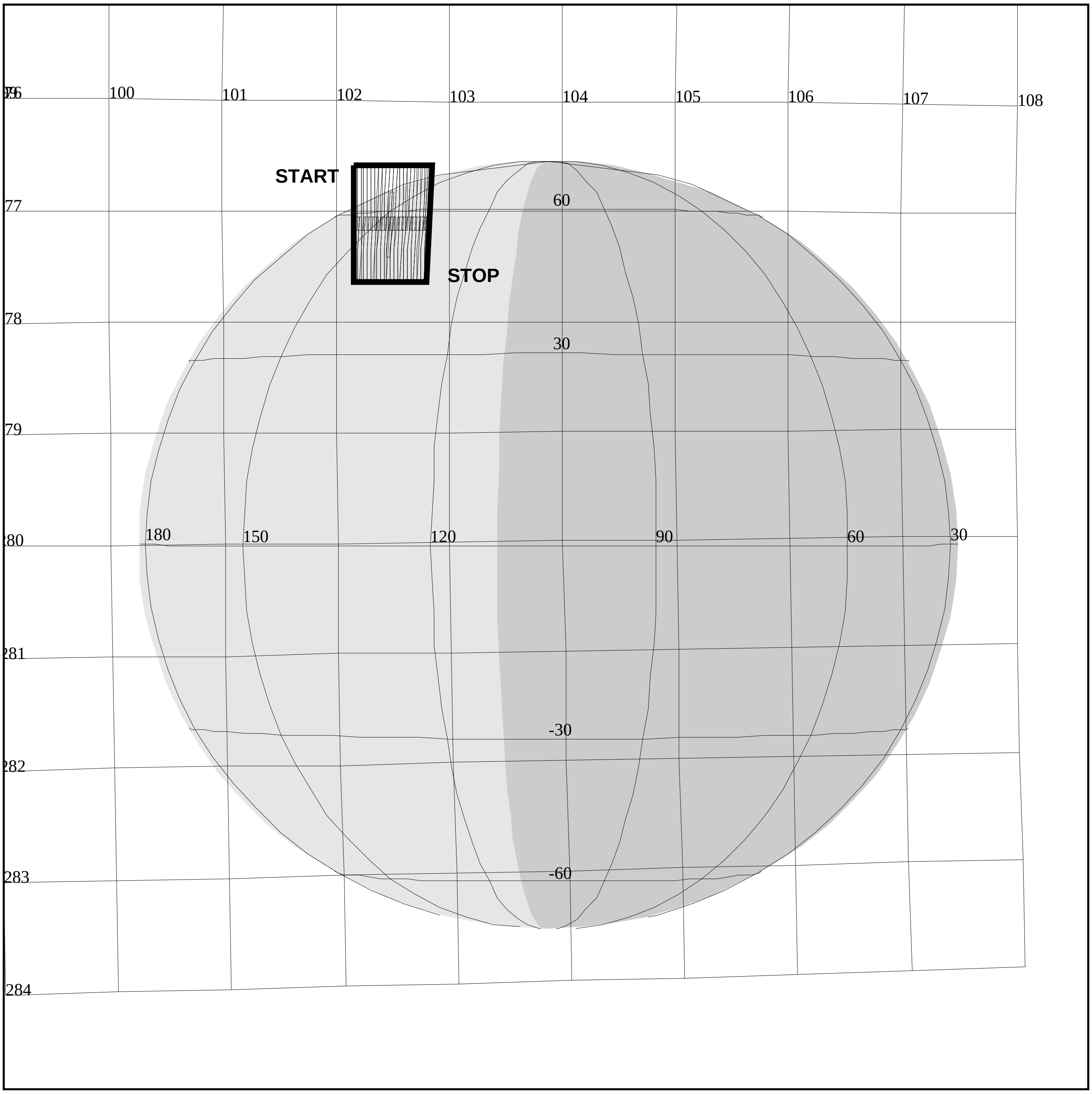
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload 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 reinitialize 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.



165FJ:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/1162 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 54.89 DEC50= 24.70 cone=102.16 clock=276.88
117FJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1162
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -11.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA09901

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA09901

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 +CDS 1293:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNFEA09901 **DESCRIP:Jup_Fea_trk_99_deg_phase_01**

Jupiter Feature Track 99 deg phase pt 1 ACTIVITY ID: 10JNFEA09901-
START TIME: 97-262/20:52:34.599

Activity ID: Orbit 10 Target J Inst N OAPEL FEA099 SeqNo 01 -

Title	Jupiter Feature Track 99 deg phase pt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 09/19/97	Week 38

Start	JEE+CDS 00001288:00:0	97-262/20:52:34.599	JEE+000/21:42:18.666
End	JEE+CDS 00001297:00:0	97-262/21:01:40.599	JEE+000/21:51:24.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 10JNFEA09901-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the first of three observations obtained on a rotation with phase angle approximately 99 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with North Polar Auroral zone feature near morning limb, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

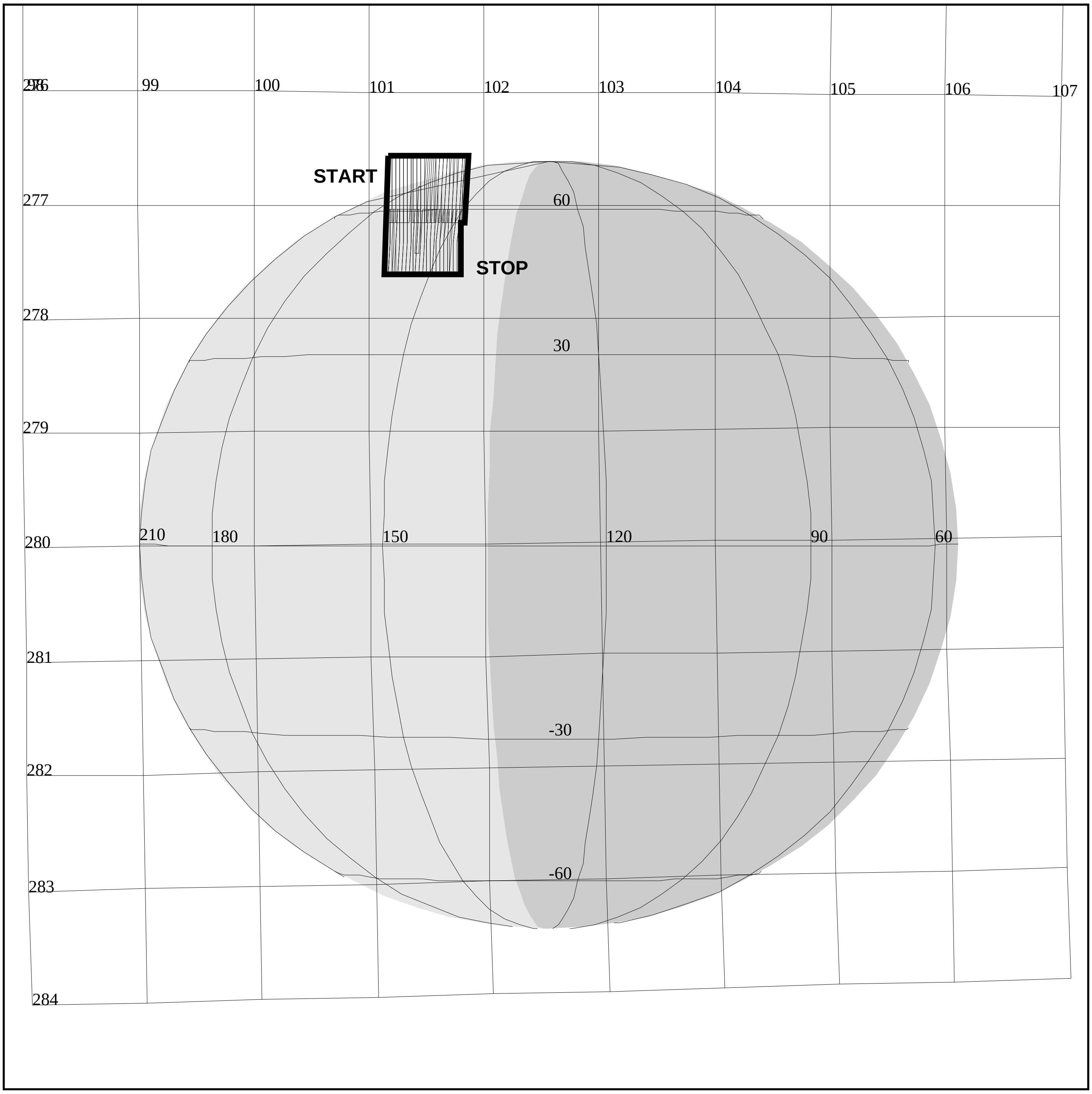
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 1.12 million KM, NIMS IFOV (NIMSel) = 560 KM; 1 X 2 mosaic covers 11200 X 20160 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.05619 MBTG in 4 colors, and using 0.00739 tracks. Four rims reserved for targetting.

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

Galileo Activity Plan Form 08/20/97 15:06:45 rev 6/95



165FL:TT= 0 TMC= 1 C= -5.00 XC= -1.00 BS= 0/8442 TC= 1(65 170)
A= 182 pD= 0 SR=17.450 RA50= 55.93 DEC50= 24.95 cone=101.18 clock=276.85
117FL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8442
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -11.50 XCr= 8.00 sD= 300 rD= 40

10JNFEA09902

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA09902

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 +CDS 1333:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNFEA09902 **DESCRIP:Jup_Fea_trk_99_deg_phase_02**

Jupiter Feature Track 99 deg phase pt 2	ACTIVITY ID: 10JNFEA09902- START TIME: 97-262/21:30:59.933

Activity ID: Orbit 10 Target J Inst N OAPEL FEA099 SeqNo 02 -

Title	Jupiter Feature Track 99 deg phase pt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID		Calendar Date 09/19/97	Week 38

Start	JEE+CDS 00001326:00:0	97-262/21:30:59.933	JEE+000/22:20:44.000
End	JEE+CDS 00001337:00:0	97-262/21:42:07.266	JEE+000/22:31:51.333
Duration	00000011:00:0	000/00:11:07.333	000/00:11:07.333

Top Label   10JNFEA09902-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the second of three observations obtained on a rotation with phase angle approximately 99 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with North Polar Auroral zone feature near minimum airmass, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 1.13 million KM, NIMS IFOV (NIMSel) = 565 KM; 1 X 2 mosaic covers 11300 X 20340 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.05619 MBTG in 4 colors, and using 0.00739 tracks.
One rim reserved for targetting.

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

Galileo Activity Plan Form   08/20/97 15:06:45   rev 6/95

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NIMS Software Reload		ACTIVITY ID:	10NNRELOAD08-
		START TIME:	97-262/21:43:07.933

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 08 -

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

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00001338:00:0	97-262/21:43:07.933	JEE+000/22:32:52.000
End	JEE+CDS 00001348:00:0	97-262/21:53:14.599	JEE+000/22:42:58.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label	10NNRELOAD08-
Bottom Label	

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

Observation Objective

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

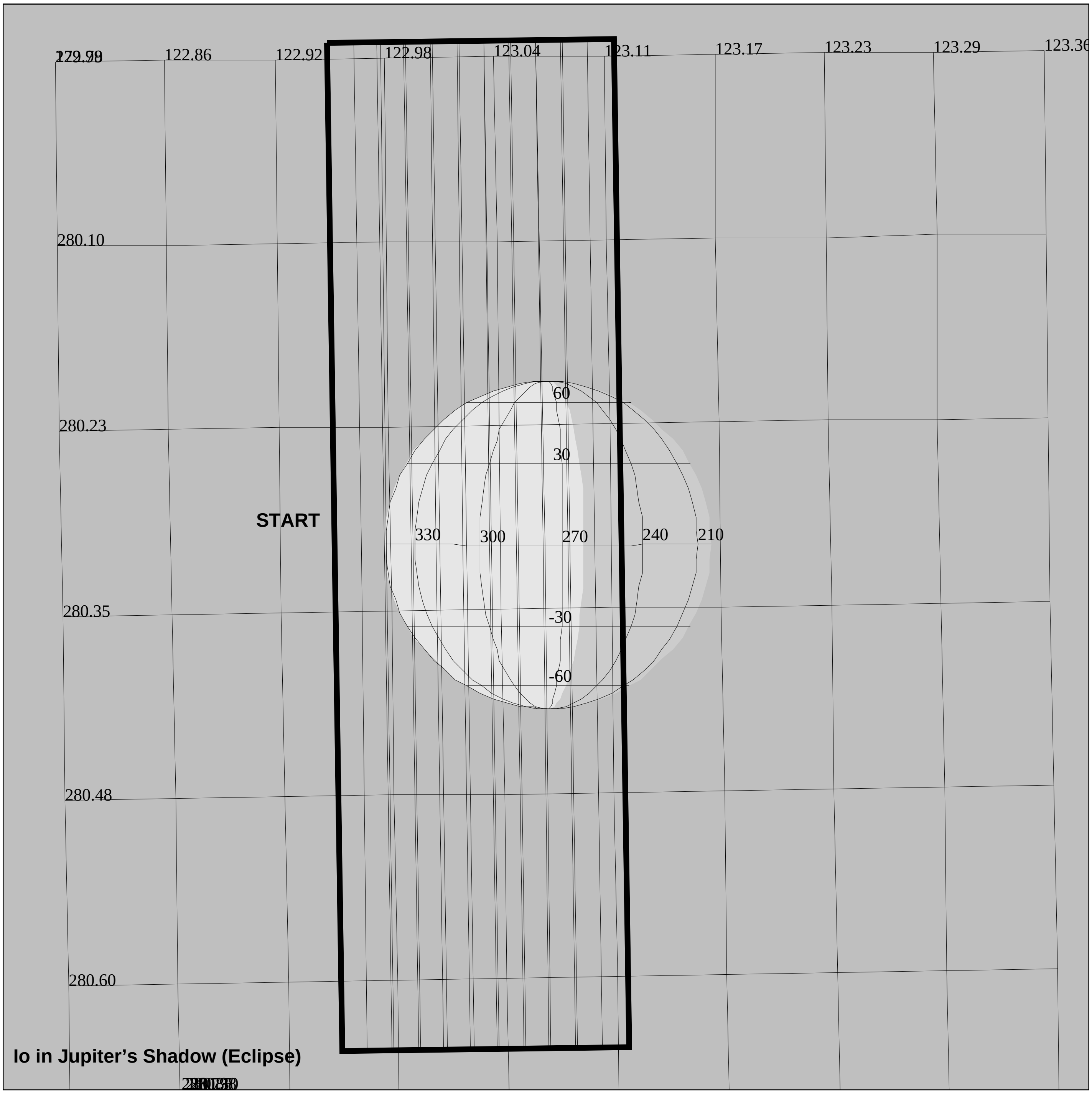
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize 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   08/20/97 15:06:45   rev 6/95



165FI:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/1900 TC= 3
A= 364 pD= 260 SR=17.450 RA50= 34.63 DEC50= 15.63 cone=122.96 clock=280.31
117FI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1900
1:#s= 1 Cs= 2.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 260 rD= 2

10INCHEMIS07

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10INCHEMIS07

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-262/04:43:55.933 +CDS 1022:00:0

OBSERVATION:10INCHEMIS07

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 260 S= 0.300

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE		ACTIVITY ID:	10INCHEMIS07-
		START TIME:	97-262/21:54:15.266

Activity ID: Orbit 10 Target I Inst N OAPEL CHEMIS SeqNo 07 -

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

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	IEE+CDS 00001019:00:0	97-262/21:54:15.266	IEE+000/17:10:19.333
End	IEE+CDS 00001025:50:0	97-262/22:00:52.599	IEE+000/17:16:56.666
Duration	00000006:50:0	000/00:06:37.333	000/00:06:37.333

Top Label	10INCHEMIS07-
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

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

Io is in Jupiter's Shadow (Eclipse).

Long Map (LM), Gain 2, Grating Start 0, LPU, ILM243C, ILM228C

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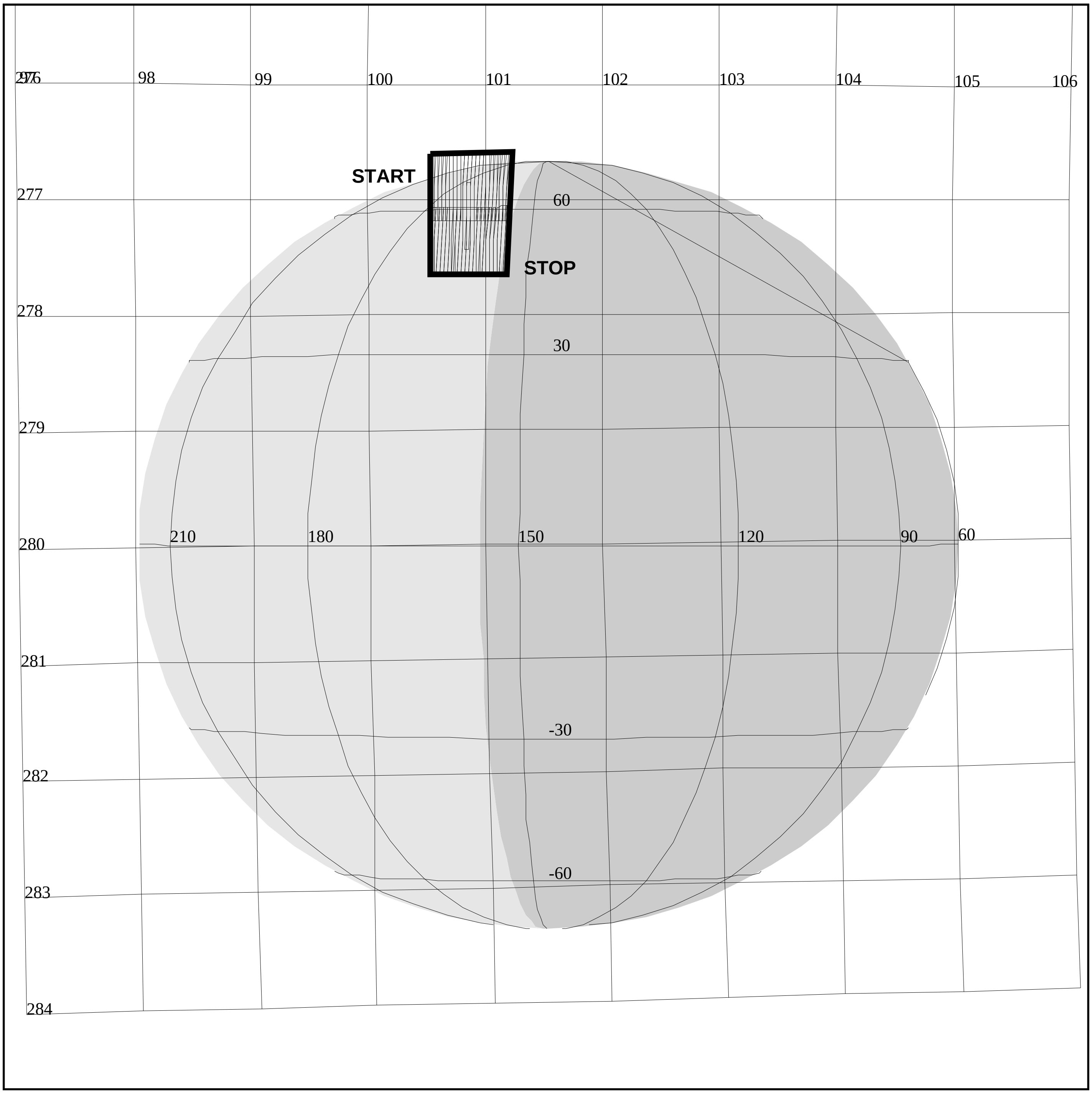

165FM:TT= 0 TMC= 1 C= -6.00 XC= -1.00 BS= 0/4266 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 56.62 DEC50= 25.07 cone=100.55 clock=276.88
117FM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4266
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -11.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA09903

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA09903

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 +CDS 1365:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNFEA09903 **DESCRIP:Jup_Fea_trk_99_deg_phase_03**

Jupiter Feature Track 99 deg phase pt 3 ACTIVITY ID: 10JNFEA09903-
START TIME: 97-262/22:05:22.599

Activity ID: Orbit 10 Target J Inst N OAPEL FEA099 SeqNo 03 -

Title	Jupiter Feature Track 99 deg phase pt 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 09/19/97	Week 38

Start	JEE+CDS 00001360:00:0	97-262/22:05:22.599	JEE+000/22:55:06.666
End	JEE+CDS 00001369:00:0	97-262/22:14:28.599	JEE+000/23:04:12.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label   10JNFEA09903-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the third of three observations obtained on a rotation with phase angle approximately 99 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with North Polar Auroral zone feature near morning limb, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 1.14 million KM, NIMS IFOV (NIMSel) = 570 KM; 1 X 2 mosaic covers 11400 X 20520 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.05619 MBTG in 4 colors, and using 0.00739 tracks.
Four rims reserved for targetting.

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

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NIMS Health Observation No. 5	ACTIVITY ID: 10NNHEALTH05- START TIME: 97-262/22:27:37.266

Activity ID: Orbit 10 Target N Inst N OAPEL HEALTH SeqNo 05 -

Title	NIMS Health Observation No. 5			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 09/19/97 Week 38

Start	JEE+CDS 00001382:00:0	97-262/22:27:37.266	JEE+000/23:17:21.333
End	JEE+CDS 00001387:00:0	97-262/22:32:40.599	JEE+000/23:22:24.666
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label 10NNHEALTH05-
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

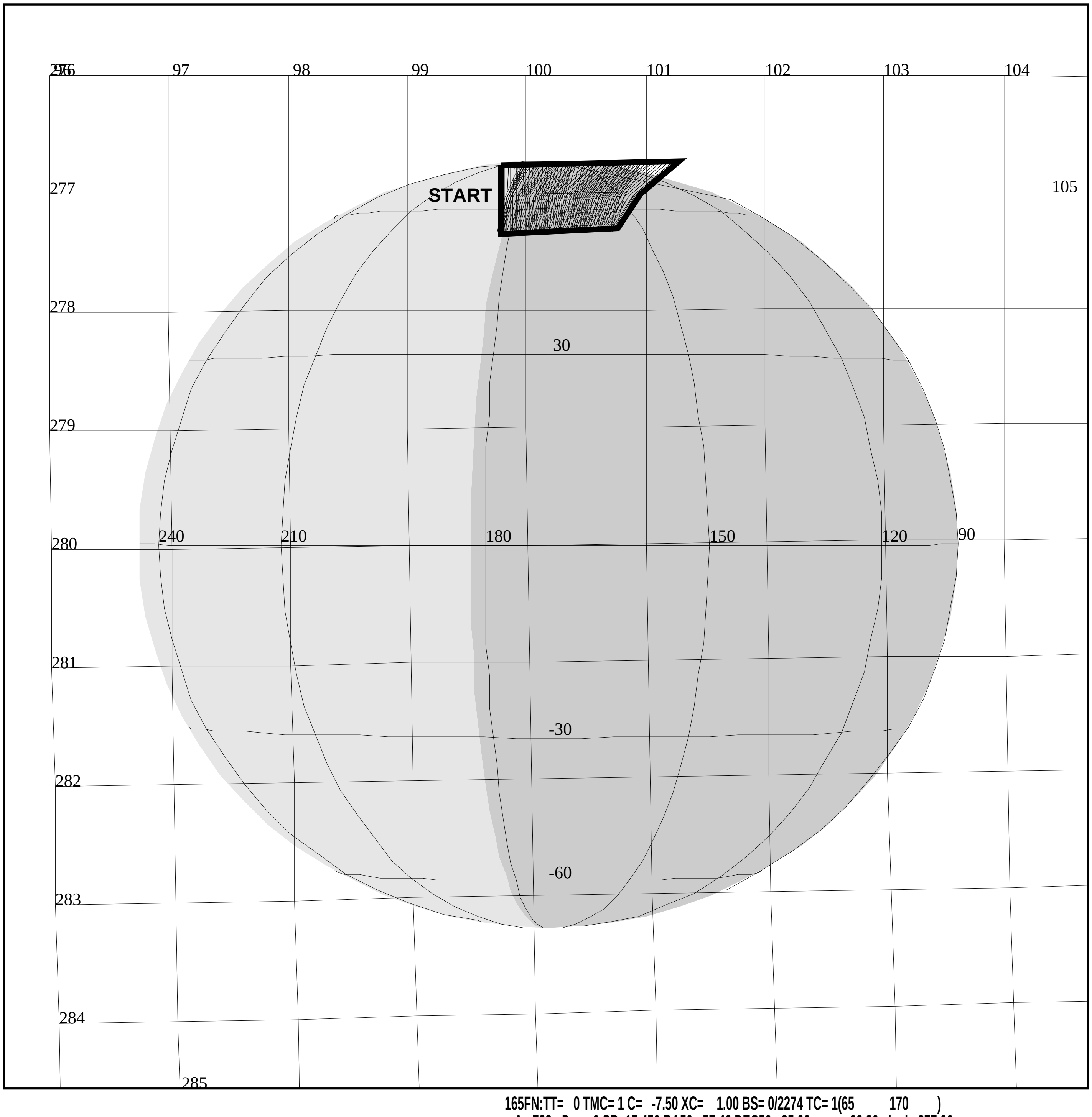
Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright anbd dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. The scan platform is at the enfd of the slew of the previous observation:

Long Map (LM), Gain 2, Grating Start 0, R/T, RTRCVY3



165FN:TT= 0 TMC= 1 C= -7.50 XC= 1.00 BS= 0/2274 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 57.46 DEC50= 25.06 cone= 99.80 clock=277.06
117FN:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/2274
1:#s= 2 Cs= 14.35 XCs= 0.00 Cr= -16.50 XCr= 0.00 sD= 2160 rD= 360

10JNFEA53M01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA53M01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-261/23:10:15.933 +CDS 1409:00:0

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

OBSERVATION:10JNFEA53M01

DESCRIP:Jup_Camp_Feat_5_and_3_um_Map

Jupiter Campaign Feature 5 and 3 um Map	ACTIVITY ID: 10JNFEA53M01- START TIME: 97-262/22:50:52.599

Activity ID: Orbit 10 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 09/19/97 Week 38

Start	JEE+CDS 00001405:00:0	97-262/22:50:52.599	JEE+000/23:40:36.666
End	JEE+CDS 00001435:00:0	97-262/23:21:12.599	JEE+001/00:10:56.666
Duration	00000030:00:0	000/00:30:20.000	000/00:30:20.000

Top Label 10JNFEA53M01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	274	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 North 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 170 degrees west longitude (System III), 65 degrees north planetographic latitude, is observed near the central meridian during the phase angle approximately 99 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.
NOTE: 4/17/97 Now recording 160 wavelengths using J53160 wavelength table, and return just the first scan.
Data Returned

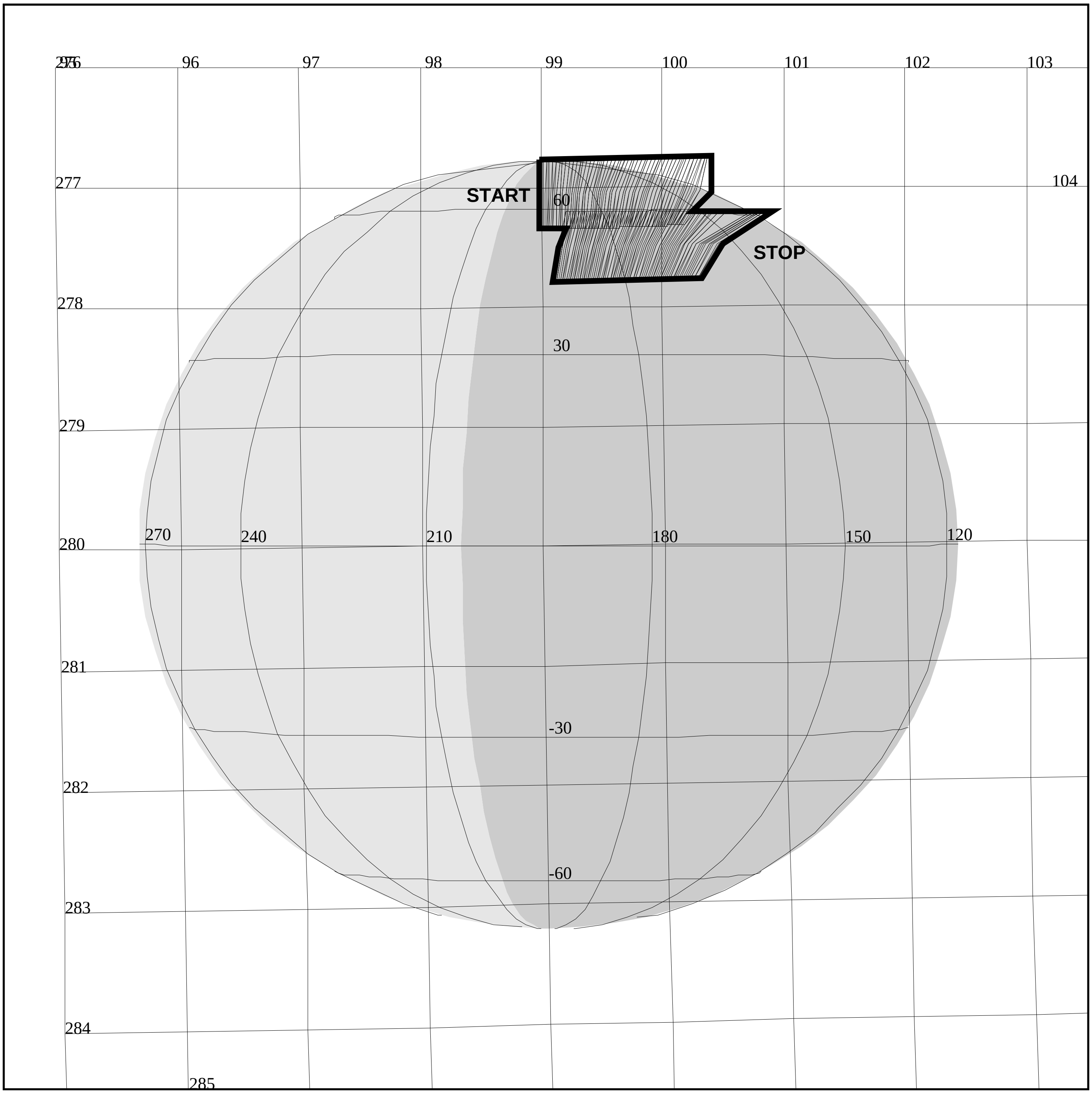
Design Detail

Two long map, Nyquist-sampled observations of 1 X 2 (10 X 18 mrad) area centered on the campaign feature. S/C distance about 0.79 million KM, map covers 11600 X 20880 KM. Each observation encompasses about 12 minutes of scanning, including reposition slew, accumulating 0.72510 MBTG and using 0.02419 tracks. Four rims reserved for targetting. Two minutes reserved for reposition slew. Total Oapel resources used: 1.4502 MBTG and 0.04838 tracks. Wavelength table changed from J5M80B to J3M80B during the reposition slew between scans. SCIREC #1 stops at end of first scan. SCIREC #2 starts at beginning of subsequent scan.

NOTE: 4/17/97: To save tape, record all 3 and 5 micron data on first pass. Reduces tracks to 0.012 tracks.

Both overlapping swaths returned with same edit table.

Long Map (LM), Gain 4, Grating Start 0, LPU, J35157, J35157



165FO:TT= 0 TMC= 1 C= -12.00 XC= 0.00 BS= 0/9190 TC= 1(65 170)
A= 182 pD= 0 SR=17.450 RA50= 58.34 DEC50= 25.24 cone= 98.99 clock=277.06
117FO:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/9190
1:#s= 2 Cs= 17.30 XCs= 0.00 Cr= -16.00 XCr= 8.00 sD= 2600 rD= 52

10JNNPAURN01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNNPAURN01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 +CDS 1447:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNNPAURN01 **DESCRIP:Jup_North_Pole_Aur_Nite_01**

Jup North Pole Aurora Nite Time prt 1	ACTIVITY ID:	10JNNPAURN01-
	START TIME:	97-262/23:31:19.266

Activity ID: Orbit 10 Target J Inst N OAPEL NPAURN SeqNo 01 -

Title	Jup North Pole Aurora Nite Time prt 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/19/97	Week	38

Start	JEE+CDS 00001445:00:0	97-262/23:31:19.266	JEE+001/00:21:03.333
End	JEE+CDS 00001476:00:0	97-263/00:02:39.933	JEE+001/00:52:24.000
Duration	00000031:00:0	000/00:31:20.667	000/00:31:20.667

Top Label	10JNNPAURN01-
Bottom Label	

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

Observation Objective

Last of three specific North Pole Aurora maps covering the North Polar Auroral feature. H3+ and other emmissions imaged near 3-4 microns over north pole. This night time map centered near 170 degrees west longitude, 65 degrees north latitude. Forty (40) wavelengths sent to ground, using NIMS wavelength table JAU40A.

Data Returned

Design Detail

Long map, Nyquist-sampled observation of 2.5 X 2 (100 X 40 NIMSel samples covering 50 X 36 area; 25 mrad X 18 mrad) centered on north pole near 170 degrees west longitude, 65 degrees north latitude. Spacecraft distance about 1.18 million KM, covers 29500 X 21240 KM; NIMS IFOV = 590 KM. About 1754.333 secs (29:11.333) for scanning, assuming 17.33 secs for reposition slew. Observation accumulates 0.9554 MBTG in 40 wavelengths and uses 0.05884 tracks.
One minute reserved for targetting, since observation follows FEA53M01 on the same target.

Long Map (LM), Gain 4, Grating Start 0, LPU, JAU253A, JAU40A

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NIMS Software Reload ACTIVITY ID: 10NNRELOAD09-
START TIME: 97-263/00:10:45.266

Activity ID: Orbit 10 Target N Inst N OAPEL RELOAD SeqNo 09 -

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

Time System	CDS	Load ID		Calendar Date	09/20/97	Week	38

Start	JEE+CDS 00001484:00:0	97-263/00:10:45.266	JEE+001/01:00:29.333
End	JEE+CDS 00001494:00:0	97-263/00:20:51.933	JEE+001/01:10:36.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 10NNRELOAD09-
Bottom Label

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

Observation Objective

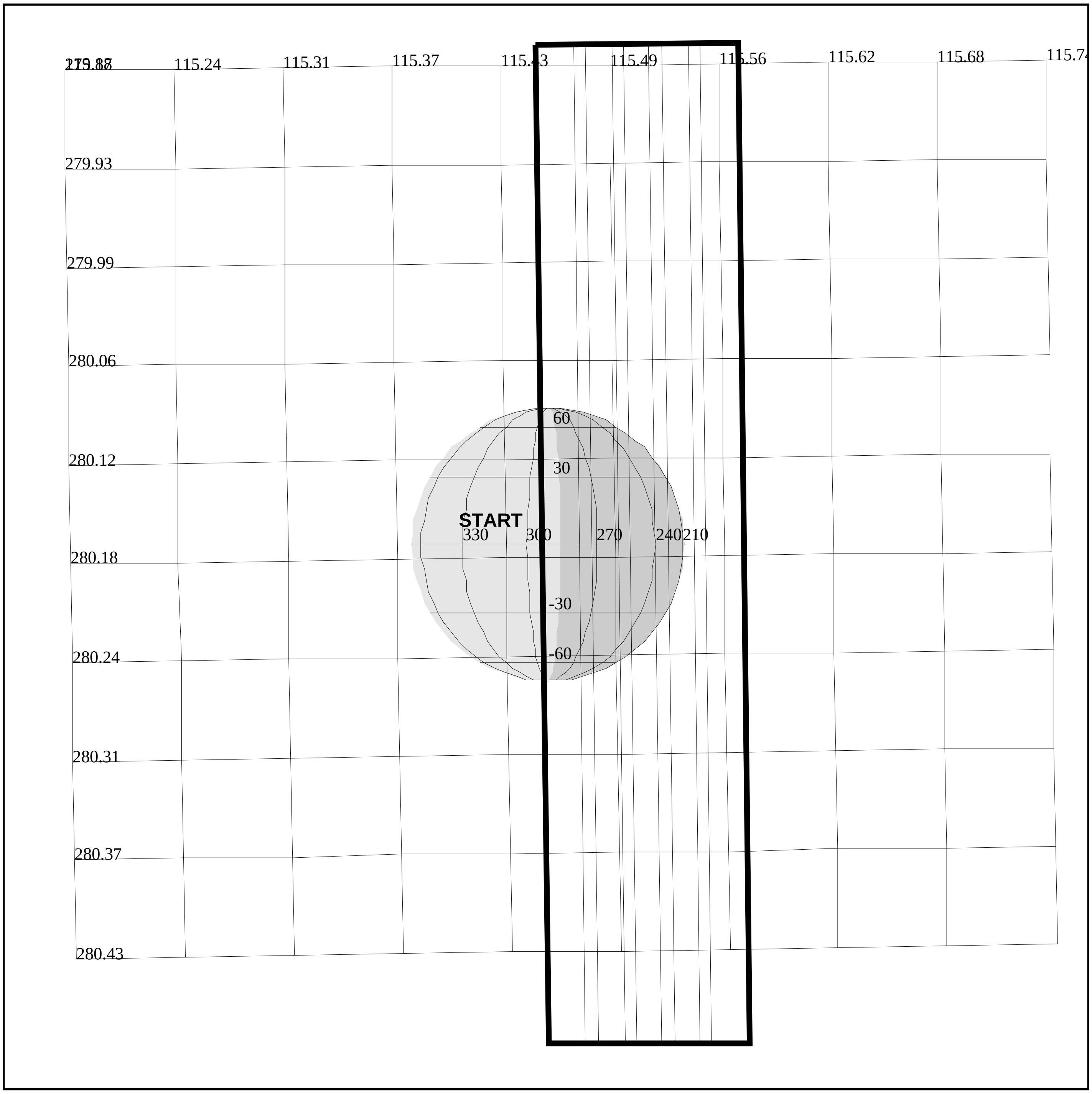
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload 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 reinitialize 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.



165FQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1748 TC= 3
A= 364 pD= 0 SR=17.450 RA50= 42.03 DEC50= 18.11 cone=115.46 clock=280.17
117FQ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1748
1:#s= 1 Cs= 1.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 136 rD= 30

10INVOLCAN05

DESIGN G3.2 lisac: 9/26/1997 12:22: 6

FILE:P.10INVOLCAN05

TARGET BODY : IO

MINI:m.10INVOLCAN05

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-262/04:43:55.933 +CDS 1186:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.250

OBSERVATION:10INVOLCAN05

DESCRIP:MONITORING OF VOLCANIC REGIONS

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: 10INVOLCAN05-
START TIME: 97-263/00:40:04.599

Activity ID: Orbit 10 Target I Inst N OAPEL VOLCAN SeqNo 05 -

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

Time System	CDS	Load ID		Calendar Date	09/20/97	Week	38

Start	IEE+CDS 00001183:00:0	97-263/00:40:04.599	IEE+000/19:56:08.666
End	IEE+CDS 00001188:41:0	97-263/00:45:35.266	IEE+000/20:01:39.333
Duration	00000005:41:0	000/00:05:30.667	000/00:05:30.667

Top Label 10INVOLCAN05-
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, 102 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, ILMDK243D, ILMDK102D

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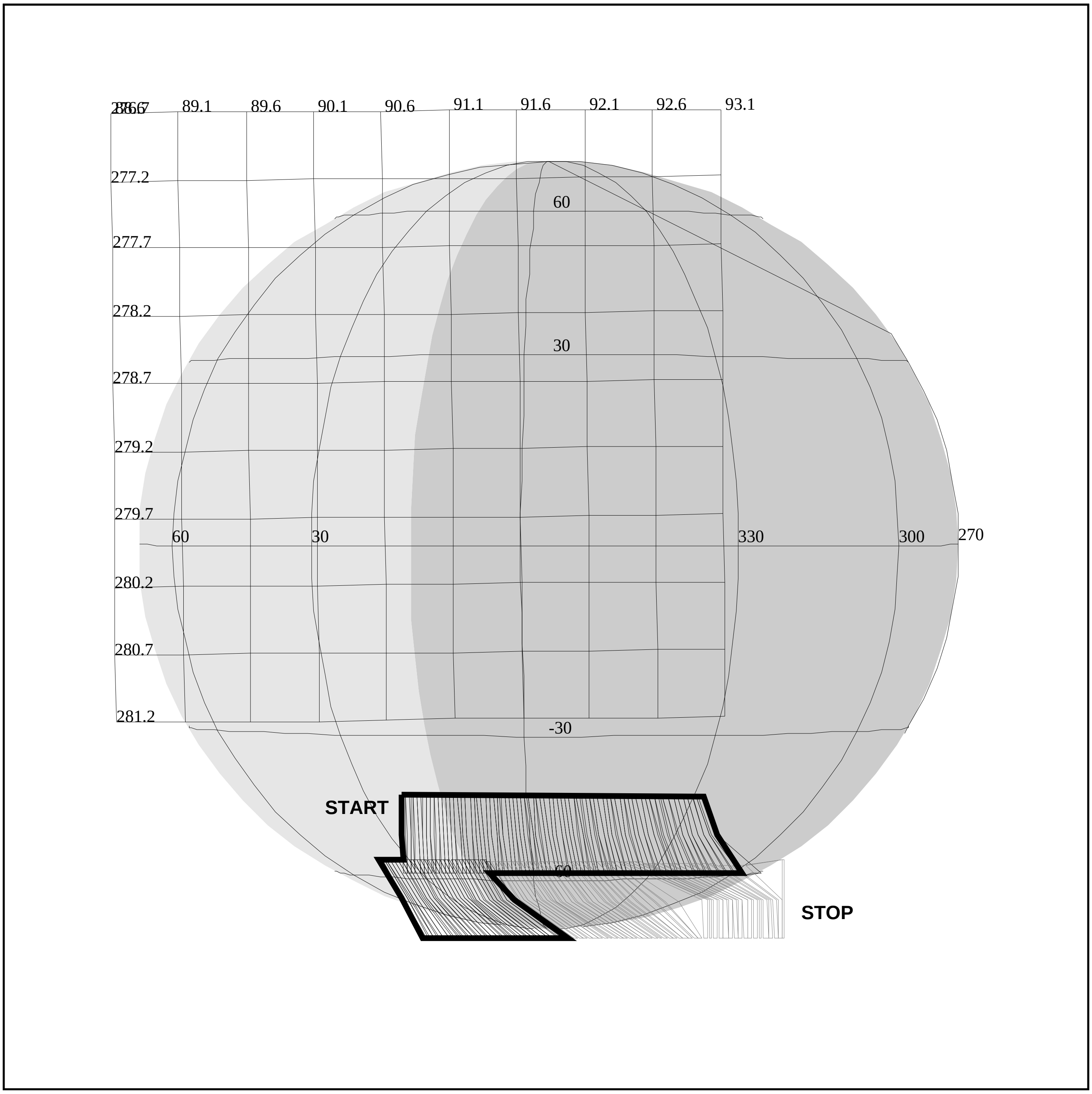

165FS:TT= 0 TMC= 1 C= -13.00 XC= -8.00 BS= 0/9786 TC= 1(-65 10)
A= 728 pD= 0 SR=17.450 RA50= 68.22 DEC50= 21.76 cone= 90.67 clock=282.06
117FS:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9786
1:#s= 2 Cs= 37.30 XCs= 0.00 Cr= -43.00 XCr= 8.00 sD= 3792 rD= 52

10JNSPAURN01

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNSPAURN01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 1725:00:0

OBSERVATION:10JNSPAURN01

THINNING:NIM 2

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

DESCRIP:Jup_South_Pole_Aur_Nite_01

Jupiter South Pole Aurora Night Time ACTIVITY ID: 10JNSPAURN01-
START TIME: 97-263/04:09:22.599

Activity ID: Orbit 10 Target J Inst N OAPEL SPAURN SeqNo 01 -

Title	Jupiter South Pole Aurora Night Time			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/20/97	Week	38

Start	JEE+CDS 00001720:00:0	97-263/04:09:22.599	JEE+001/04:59:06.666
End	JEE+CDS 00001767:00:0	97-263/04:56:53.933	JEE+001/05:46:38.000
Duration	00000047:00:0	000/00:47:31.334	000/00:47:31.334

Top Label 10JNSPAURN01-
Bottom Label

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

Observation Objective

Last of three specific South Pole Aurora maps sampling each hemisphere of the South Polar region. H3+ and other emmssions imaged near 3-4 microns over south pole. This night time map centered near 10 degrees west longitude, 65 degrees south latitude. Forty (40) wavelengths sent to ground, using NIMS wavelength table JAU40A.

Data Returned

Design Detail

Long map, Nyquist-sampled observation of 3.65 X 2 (146 X 40 NIMSel samples covering 73 X 36 NIMSel area; 36.5 mrad X 18 mrad) centered on south pole. Spacecraft distance about
1.3 million KM covers 47450 X 23400 KM IFOV = 650 KM.
About 2548 (42:28) seconds for scanning, assuming 17.333 secs for reposition slew. Observation accumulates 1.390 MBTG in 40 wavelengths and using 0.085602 tracks. Four rims reserved for targetting.

Not all of bottom swath was recorded.

Long Map (LM), Gain 4, Grating Start 0, LPU, JAU253A, JAU40A

Galileo Activity Plan Form 08/20/97 15:06:46 rev 6/95

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NIMS Health Observation No. 6		ACTIVITY ID:	10NNHEALTH06-
		START TIME:	97-263/05:57:33.933

Activity ID: Orbit 10 Target N Inst N OAPEL HEALTH SeqNo 06 -

Title	NIMS Health Observation No. 6			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 09/20/97 Week 38

Start	JEE+CDS 00001827:00:0	97-263/05:57:33.933	JEE+001/06:47:18.000
End	JEE+CDS 00001832:00:0	97-263/06:02:37.266	JEE+001/06:52:21.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label 10NNHEALTH06-
Bottom Label

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

Observation Objective

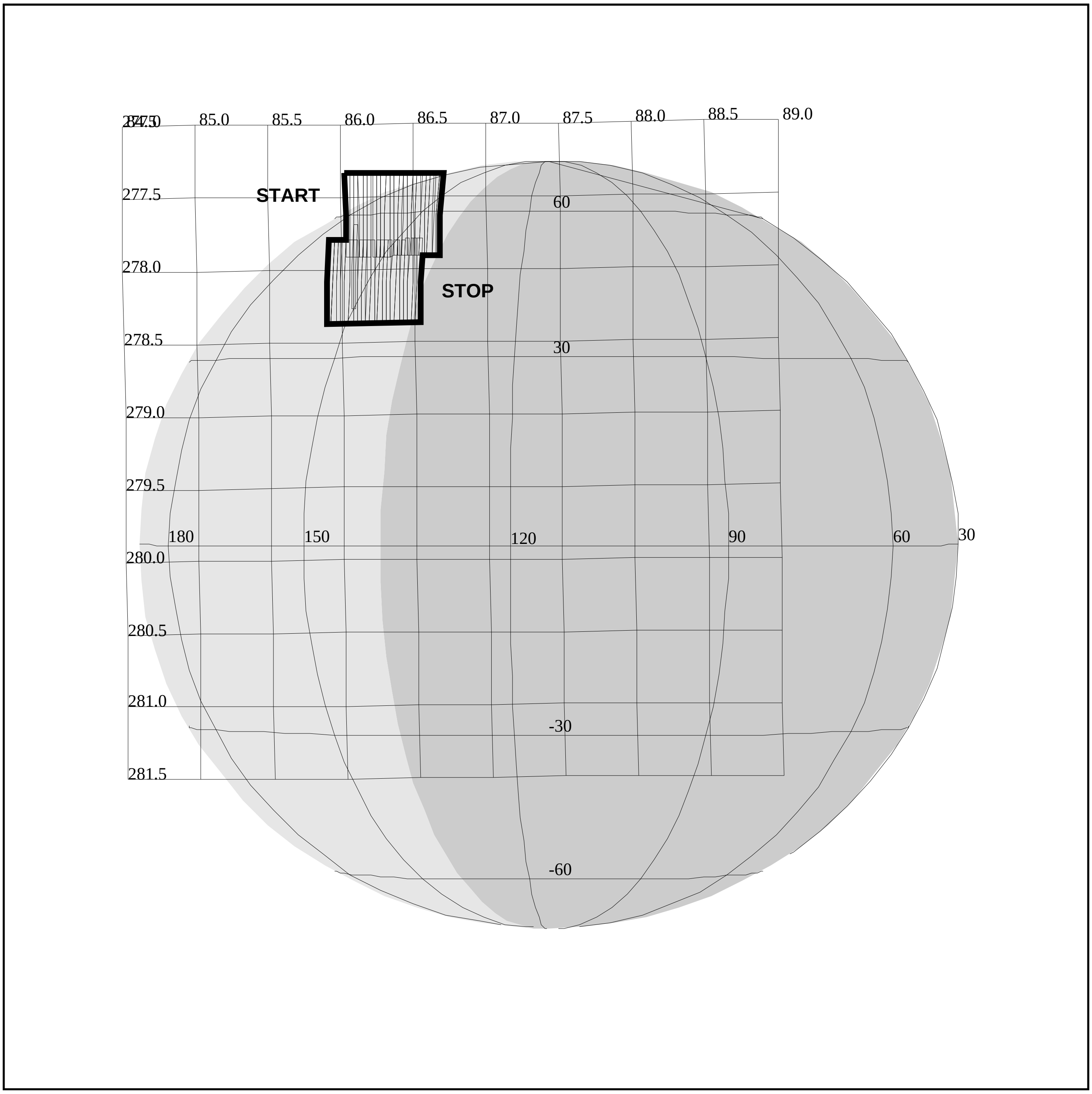
Required to verify instrument operation. These observations provide a 3 detector view of the instrument. The detectors are selected such that a bright anbd dark channel will exist for either a satellite or Jupiter for a target. The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

No scan platform commanding. The scan platform is at the enfd of the slew of the previous observation:

Long Map (LM), Gain 2, Grating Start 0, R/T, RTRCVY3



165FV:TT= 0 TMC= 1 C= -6.00 XC= 2.00 BS= 0/6368 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 72.68 DEC50= 26.73 cone= 86.03 clock=277.61
117FV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6368
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -13.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA11401

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA11401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 1926:00:0

OBSERVATION:10JNFEA11401

THINNING:NIM 2

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

DESCRIP:Jup_Fea_trk_114_deg_phase_01

Jupiter Feature Track 114 deg phase pt 1	ACTIVITY ID: 10JNFEA11401- START TIME: 97-263/07:32:36.599

Activity ID: Orbit 10 Target J Inst N OAPEL FEA114 SeqNo 01 -

Title	Jupiter Feature Track 114 deg phase pt 1		Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/20/97	Week	38

Start	JEE+CDS 00001921:00:0	97-263/07:32:36.599	JEE+001/08:22:20.666
End	JEE+CDS 00001930:00:0	97-263/07:41:42.599	JEE+001/08:31:26.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	10JNFEA11401-
Bottom Label	

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the first of three observations obtained on a rotation with phase angle approximately 114 degrees.
Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A.
This observation acquired with North Polar Auroral zone feature near minimum airmass assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

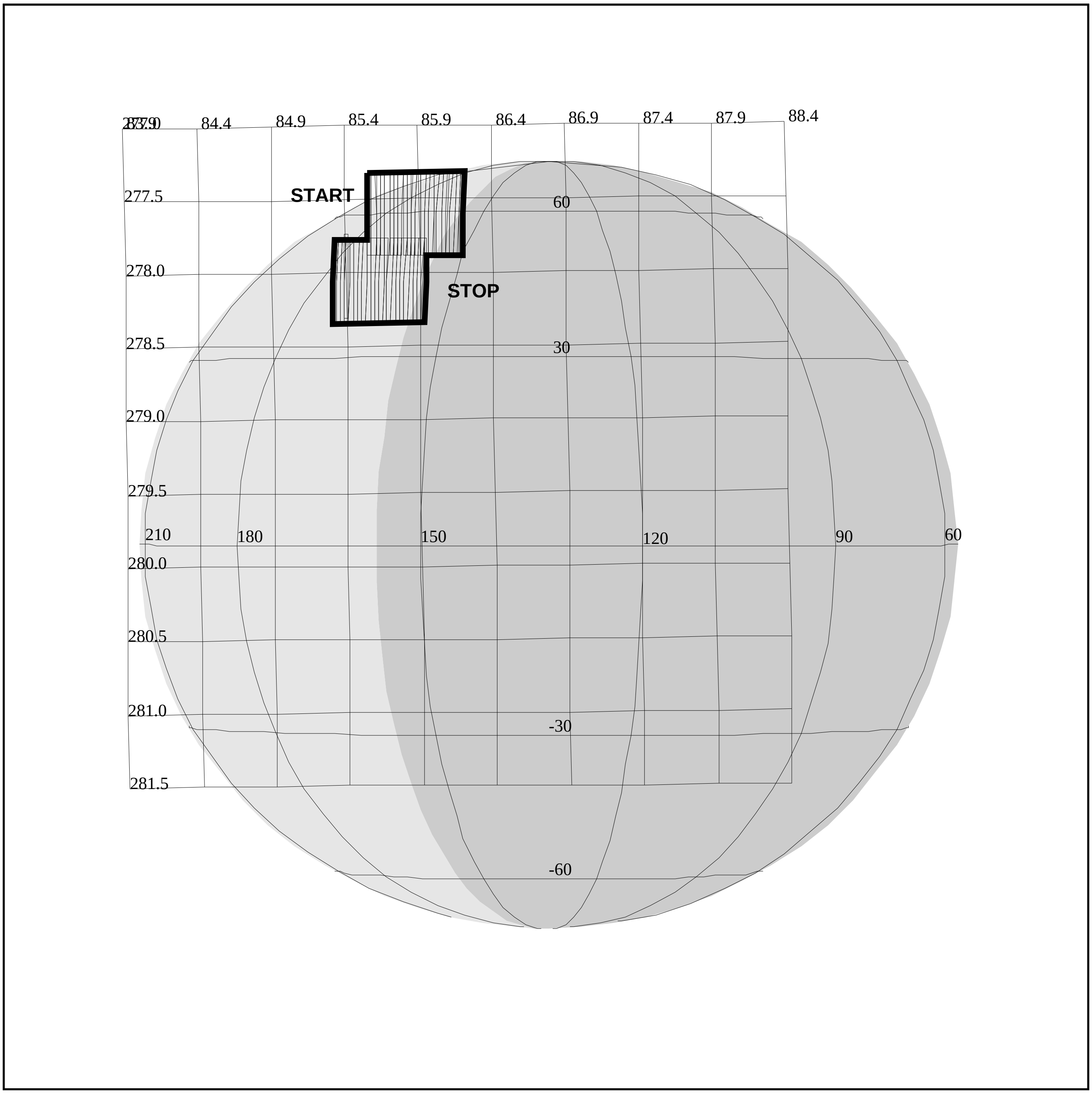
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 1.44 million KM, NIMS IFOV (NIMSel) = 720 KM;
1 X 2 mosaic covers 14400 X 25920 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.05619 MBTG in 4 colors, and using 0.00739 tracks.
Four rims reserved for targetting.

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

Galileo Activity Plan Form 08/20/97 15:06:46 rev 6/95



165FW:TT= 0 TMC= 1 C= -8.00 XC= 2.00 BS= 0/1828 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 73.17 DEC50= 26.76 cone= 85.59 clock=277.62
117FW:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1828
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -15.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA11402

TARGET G3.1 lisac: 9/ 4/1997 12: 4: 2

FILE:P.10JNFEA11402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 +CDS 1956:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750**

OBSERVATION:10JNFEA11402 **DESCRIP:Jup_Fea_trk_114_deg_phase_02**

Jupiter Feature Track 114 deg phase pt 2 ACTIVITY ID: 10JNFEA11402-
START TIME: 97-263/08:03:57.266

Activity ID: Orbit 10 Target J Inst N OAPEL FEA114 SeqNo 02 -

Title	Jupiter Feature Track 114 deg phase pt 2	Instrument	NIMS		
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/20/97 Week 38

Start	JEE+CDS 1952:00:0	97-263/08:03:57.266	JEE+001/08:53:41.333
End	JEE+CDS 00001960:00:0	97-263/08:12:02.599	JEE+001/09:01:46.666
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label 10JNFEA11402-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the second of three observations obtained on a rotation with phase angle approximately 114 degrees. Jupiter imaged in 4 colors, using NIMS downlink wavelength table JFT04A. This observation acquired with North Polar Auroral zone feature near morning limb, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 1.45 million KM, NIMS IFOV (NIMSel) = 725 KM;
1 X 2 mosaic covers 14500 X 26100 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.05619 MBTG in 4 colors, and using 0.00739 tracks.
Four rims reserved for targetting.

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

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SCITURN			ACTIVITY ID:	10JNSCITRN02-	
			START TIME:	97-263/14:25:55.933	

Activity ID: Orbit 10 Target J Inst N OAPEL SCITRN SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	09/20/97	Week	38

Start	JEE+CDS 2329:71:0	97-263/14:25:55.933	JEE+001/15:15:40.000
End	JEE+CDS 00002484:06:0	97-263/17:01:55.933	JEE+001/17:51:40.000
Duration	00000154:26:0	000/02:36:00.000	000/02:36:00.000

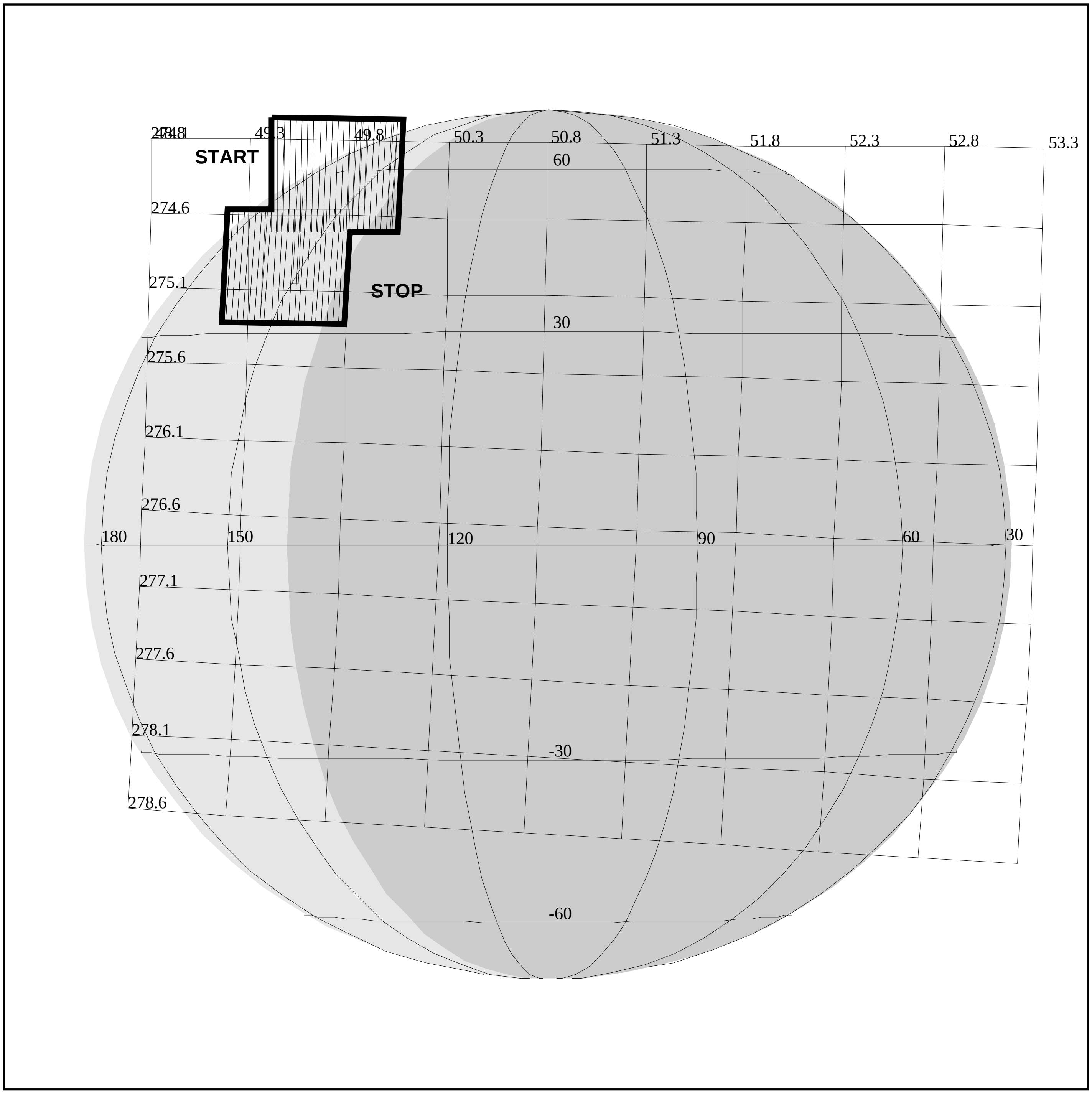
Top Label	10JNSCTRN01-
Bottom Label	

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

Observation Objective

Design Detail

Galileo Activity Plan Form 08/20/97 15:06:47 rev 6/95



165FX:TT= 0 TMC= 1 C= -8.00 XC= 2.00 BS= 0/4476 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 83.89 DEC50= 27.05 cone= 49.41 clock=274.31
117FX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4476
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -15.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA12401

DESIGN G3.2 lisac: 9/26/1997 12:26:25

FILE:P.10JNFEA12401

CENTRAL BODY:JUPITER III

MINI:m.10JNFEA12401

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-261/23:10:15.933 +CDS 2520:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:10JNFEA12401 **DESCRIP:Jup_Fea_trk_124_deg_phase_01**

```
Jupiter Feature Track 124 deg phase pt 1 ACTIVITY ID:   10JNFEA12401-
                                          START TIME:   97-263/17:33:12.599
```

```
Activity ID: Orbit 10  Target J  Inst N  OAPEL FEA124  SeqNo 01 -

Title        Jupiter Feature Track 124 deg phase pt 1Instrument      NIMS
Requestor    NIMS-AWG/K. BAINES        Team   NIMS  Working Group    AWG
```

```
Time System  CDS       Load ID         Calendar Date  09/20/97  Week  38

Start        JEE+CDS 00002515:00:0 97-263/17:33:12.599   JEE+001/18:22:56.666
End          JEE+CDS 00002524:00:0 97-263/17:42:18.599   JEE+001/18:32:02.666
Duration           00000009:00:0     000/00:09:06.000       000/00:09:06.000
```

```
Top Label    10JNFEA12401-
Bottom Label

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

Observation Objective

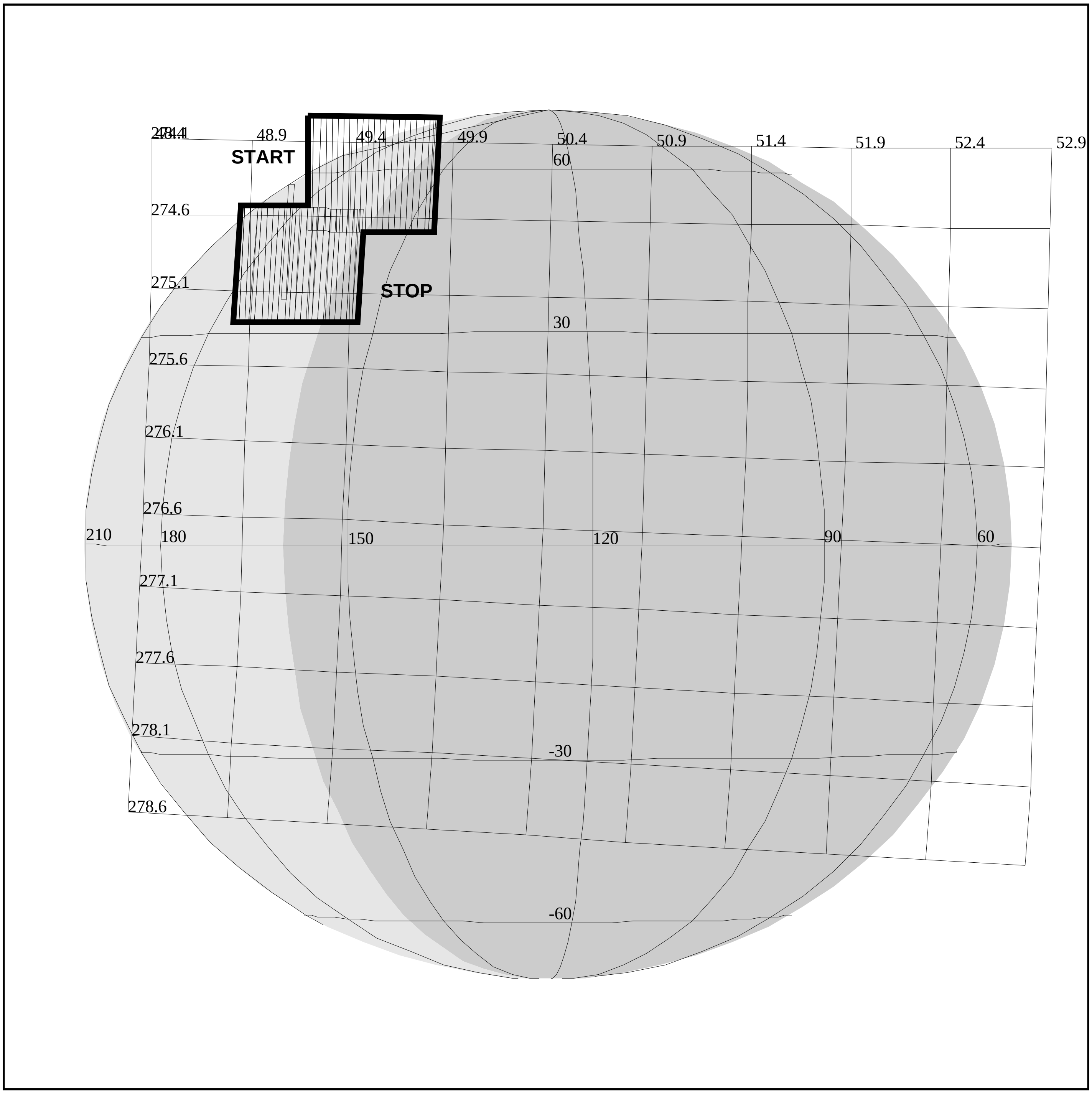
One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the first of three observations obtained on a rotation with phase angle approximately 124 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with North Polar Auroral zone feature near minimum airmass, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 1.73 million KM, NIMS IFOV (NIMSel) = 865 KM;
1 X 2 mosaic covers 17300 X 31140 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.15991 MBTG in 15 colors, and using 0.00739 tracks.
Four rims reserved for targetting.

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



165FY:TT= 0 TMC= 1 C= -8.00 XC= 2.00 BS= 0/9754 TC= 1(65 170)
A= 728 pD= 0 SR=17.450 RA50= 84.12 DEC50= 27.05 cone= 49.20 clock=274.32
117FY:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9754
1:#s= 2 Cs= 10.80 XCs= 0.00 Cr= -17.00 XCr= 8.00 sD= 300 rD= 40

10JNFEA12402

DESIGN G3.2 lisac: 9/26/1997 12:26:58

FILE:P.10JNFEA12402

CENTRAL BODY:JUPITER III

MINI:m.10JNFEA12402

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-261/23:10:15.933 +CDS 2549:00:0

OBSERVATION:10JNFEA12402

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850

DESCRIP:Jup_Fea_trk_124_deg_phase_02

Jupiter Feature Track 124 deg phase pt 2 ACTIVITY ID: 10JNFEA12402-
START TIME: 97-263/18:02:31.933

Activity ID: Orbit 10 Target J Inst N OAPEL FEA124 SeqNo 02 -

Title	Jupiter Feature Track 124 deg phase pt 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	09/20/97 Week 38

Start	JEE+CDS 00002544:00:0	97-263/18:02:31.933	JEE+001/18:52:16.000
End	JEE+CDS 00002553:00:0	97-263/18:11:37.933	JEE+001/19:01:22.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 10JNFEA12402-
Bottom Label

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

Observation Objective

One of 17 OAPELS constituting the feature tracks for the North Polar Auroral zone feature campaign. This is the second of three observations obtained on a rotation with phase angle approximately 124 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with North Polar Auroral zone feature near morning limb, assuming feature coordinates 65 degrees north latitude (planetographic) and 170 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 1 X 2 (10 X 18 mrad) area centered on North Polar Auroral zone feature near 170 degrees west longitude, 65 degrees north planetographic latitude.
Spacecraft distance 1.74 million KM, NIMS IFOV (NIMSel) = 870 KM; 1 X 2 mosaic covers 17400 X 31320 KM. About 220 seconds of scanning, including 20 seconds for the reposition slew between tiers, accumulating 0.15991 MBTG in 15 colors, and using 0.00739 tracks.
Four rims reserved for targetting.

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

Galileo Activity Plan Form 08/20/97 15:06:47 rev 6/95

NIMS Real-Time PCT Observation		ACTIVITY ID:	10NNPCTRLT01-
		START TIME:	97-264/13:55:38.466

Activity ID: Orbit 10 Target N Inst N OAPEL PCTRLT SeqNo 01 -

Title	NIMS Real-Time PCT Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/21/97	Week	38

Start	PCT+CDS	00000000:00:0	97-264/13:55:38.466	PCT+000/00:00:00.000
End	PCT+CDS	00000465:00:0	97-264/21:45:48.466	PCT+000/07:50:10.000
Duration		00000465:00:0	000/07:50:10.000	000/07:50:10.000

Top Label   10NNPCTRLT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	450	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS photometric calibration using the PCT target.
The data will be used to calibrate the NIMS visible detectors.
The calibration data will be returned via Real-Time.
This calibration will take place during the cruise segment of the C10 orbit when the sun-angle is approximately 6 degrees.

Data Returned

Design Detail

1) Turn off PCT heaters 6 hours before calibration.
2) Scan Platform is at Safe/Unstow (cone = 153.00, clock = 0.00)
3) Chopper on, Gain State 4,
4) Set NIMS to Long Map Mode, ETB = PCT252,
   Mirror Blocking (1B, 1B) (11011, 11011)
5) Select 1 RIM of Dark in Real-Time (Return 1 LM grating cycle)
6) Slew to PCT (cone 54.88, clock = 244.07)
7) Select 10 RIMS of PCT in Real-Time (Return 10 LM grating cycles)
8) Slew to Safe (cone = 153.00, clock = 0.00)
9) NIMS to Safe Mode, Reset Mirror Blocking (00,00) (00000, 00000)
10) Chopper Off.

Long Map (LM), Gain 4, Grating Start 0, RT, C10PCT252

Galileo Activity Plan Form   08/20/97 15:06:47   rev 6/95

POWER MODE CAL/DEC NIMS RT CAL	ACTIVITY ID: 10NNRCTRLT01-
	START TIME: 97-266/02:51:59.733

Activity ID: Orbit 10 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	POWER MODE CAL/DEC NIMS RT CAL			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/23/97	Week	39

Start	RTA+CDS 00000000:00:0	97-266/02:51:59.733	RTA+000/00:00:00.000
End	RTA+CDS 00000787:00:0	97-266/16:07:44.399	RTA+000/13:15:44.666
Duration	00000787:00:0	000/13:15:44.666	000/13:15:44.666

Top Label 10NNRCTRLT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	447	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 calibrate the NIMS thermal detectors. The calibration data will be returned using Real-time Telemetry.

Data Returned

Design Detail

This is a Library Sequence.

The Dark cone angle must be selected using Pointer.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone = 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 1 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, C10RCT252

Galileo Activity Plan Form 08/20/97 15:06:47 rev 6/95

POWER MODE CAL/DEC NIMS REC CAL	ACTIVITY ID: 10NNRCTRLT02- START TIME: 97-292/09:49:59.733

```
Activity ID: Orbit 10  Target N  Inst N  OAPEL RCTRLT  SeqNo 02 -

Title          POWER MODE CAL/DEC NIMS REC CAL          Instrument       NIMS
Requestor      NIMS-SWG/R. LOPES         Team   NIMS  Working Group    SWG

Time System  CDS       Load ID          Calendar Date  10/19/97  Week  42

Start        RTB+CDS 00000000:00:0 97-292/09:49:59.733   RTB+000/00:00:00.000
End          RTB+CDS 00000787:00:0 97-292/23:05:44.399   RTB+000/13:15:44.666
Duration             00000787:00:0     000/13:15:44.666       000/13:15:44.666

Top Label    10NNRCTRLT02-
Bottom Label

Plot Key     NIMS      Type             SCI
CDS Bytes        447   Report Options   BOTH         Scan Platform      Yes
CDS Source   PA        Spin State       DUAL         DMS                Yes
```

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real-time Telemetry.

Data Returned

Design Detail

This is a Library Sequence.

The Dark cone angle must be selected using Pointer.

```
 1)  Turn on RCT Heaters for 12 hours.
 2)  Set Engineering Variable Map to return NIMS Temps more frequently.
 3)  Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
     Mirror Blocking (11011,11011), ETB=RCT252.
 4)  Pause playback before using scan platform.
 5)  Slew to Dark (cone = 119.7), return 1 grating cycle  (12 mf) in R/T
 6)  Slew to RCT  (cone = 0.0),   return 2 grating cycles (12 mf) in R/T
 7)  Slew to Dark (cone = 119.7), return 1 grating cycle  (12 mf) in R/T
 8)  Slew to Safe (cone = 153.0)
 9)  Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.
```

Long Map (LM), Gain 1, Grating Start 0, R/T, C10RCT252

Galileo Activity Plan Form   08/20/97 15:06:47   rev 6/95

NIMS OPCAL | ACTIVITY ID: 10NNOPCAL_01-
START TIME: 97-302/11:54:37.933

Activity ID: Orbit 10 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 10/29/97 Week 44

Start	JEE+CDS 00057723:00:0	97-302/11:54:37.933	JEE+040/12:44:22.000
End	JEE+CDS 00057741:00:0	97-302/12:12:49.933	JEE+040/13:02:34.000
Duration	00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label 10NNOPCAL_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

Perform NIMS Optical Calibration to calibrate the NIMS grating.

Data Returned

Design Detail

Long Map, gain state 4.
Mirror Block On (1B,1B) - central mirror positions only.
Target Dark sky.
Select NIMS Real Time
Use 37IST to turn on OPCAL Lamp (two times).
1 Rim OPCAL
1 Rim Dark
1 Rim OPCAL

Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL120

Galileo Activity Plan Form 08/20/97 15:06:48 rev 6/95