Chapter 5 - Detailed Observation Designs

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Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

NIMS Chopper ON — **ACTIVITY ID:** C9NNCHOPON01- / **START TIME:** 97-176/05:12:27.600

Activity ID: Orbit C9 Target N Inst N OAPEL CHOPON SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date 06/25/97 Week 26
Start	CEE-CDS 00000510:00:0	97-176/05:12:27.600	CEE-000/08:35:40.000
End	CEE-CDS 00000500:00:0	97-176/05:22:34.267	CEE-000/08:25:33.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label C9NNCHOPON01-
Bottom Label

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

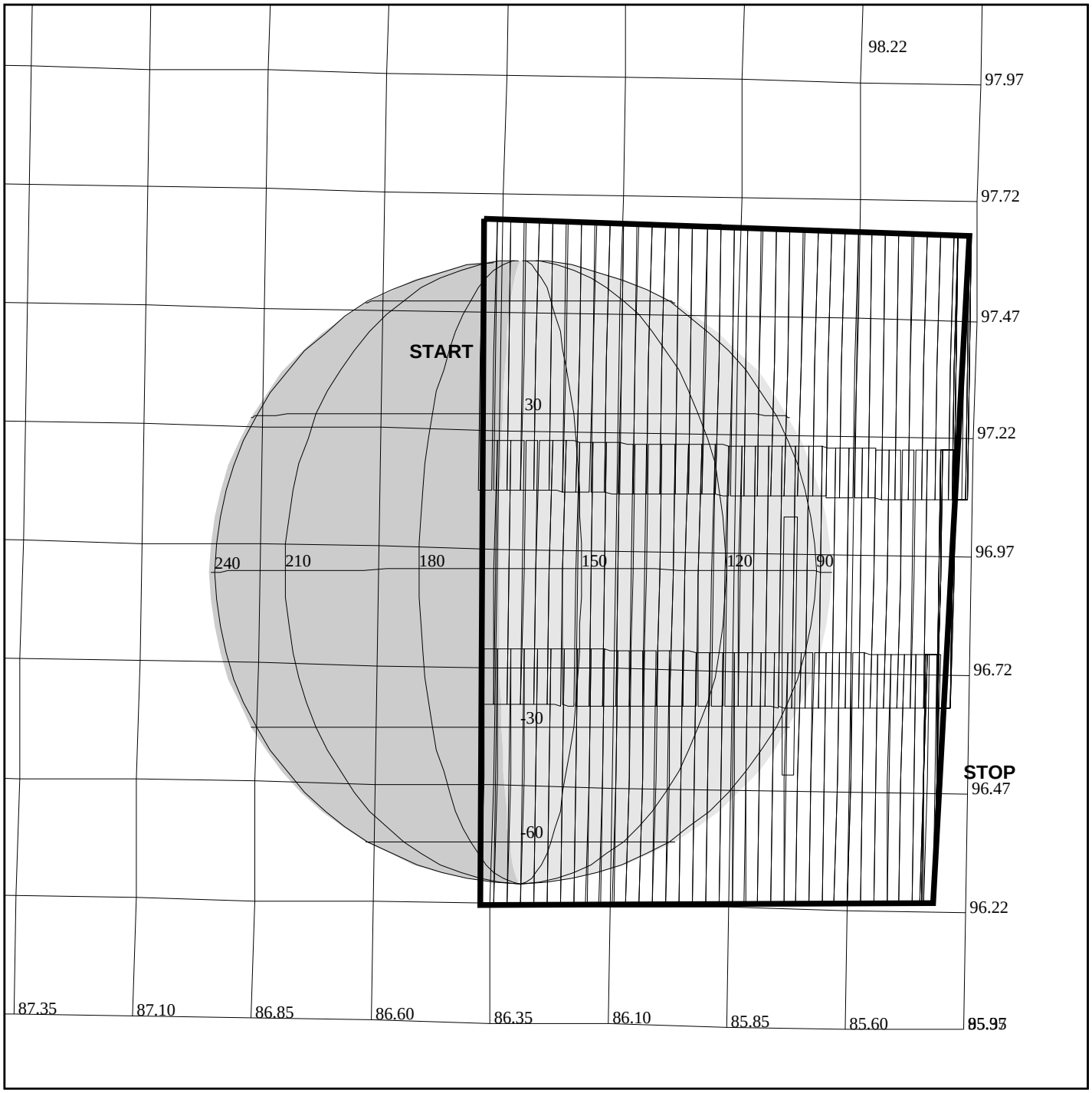
Observation Objective

Configure the NIMS instrument for orbit C9 data taking.
Turn the chopper on to Reference.
This orbit includes observations of Jupiter, Io, Callisto, Europa, Ganymede and the main ring.

Design Detail

Use NIMSINIT with the following commands.

```
37IST,1,0,0,OFF,0,0,0;   Chopper 63 Hz
37IST,1,2,0,OFF,0,0,0;   Chopper Ref
37MB,0,0,0,0,0           No Mirror Blocking
```



165DC:TT= 0 TMC= 1 C= 1.50 XC= 8.00 BS= 0/3117 TC= 3
A= 546 pD= 8664 SR=17.450 RA50=223.72 DEC50=-17.80 cone= 86.38 clock= 97.38
117DC:#SB= 1 OR= 0.030 RR=10.600 BM=F RC= 1 BS= 0/3117
1:#s= 3 Cs= -18.00 XCs= 0.00 Cr= 18.00 XCr= -8.00 sD= 2154 rD= 16

C9CNGLOBAL01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CTE 97-176/13:48:07.600 -CDS 437:00:0 **BODY PLOT TIME:TARGET-TIME D= 8664 S= 0.600**

OBSERVATION:C9CNGLOBAL01 **DESCRIP:Callisto Global Coverage**

Callisto Global Coverage	**ACTIVITY ID: C9CNGLOBAL01-** **START TIME: 97-176/06:22:13.600**

Activity ID: Orbit C9 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**	**06/25/97 Week 26**
Start	**CTE-CDS 00000441:00:0**	**97-176/06:22:13.600**		**CTE-000/07:25:54.000**	
End	**CTE-CDS 00000377:44:0**	**97-176/07:26:26.934**		**CTE-000/06:21:40.666**	
Duration	**00000063:47:0**	**000/01:04:13.334**		**000/01:04:13.334**	

Top Label	**C9CNGLOBAL01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

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

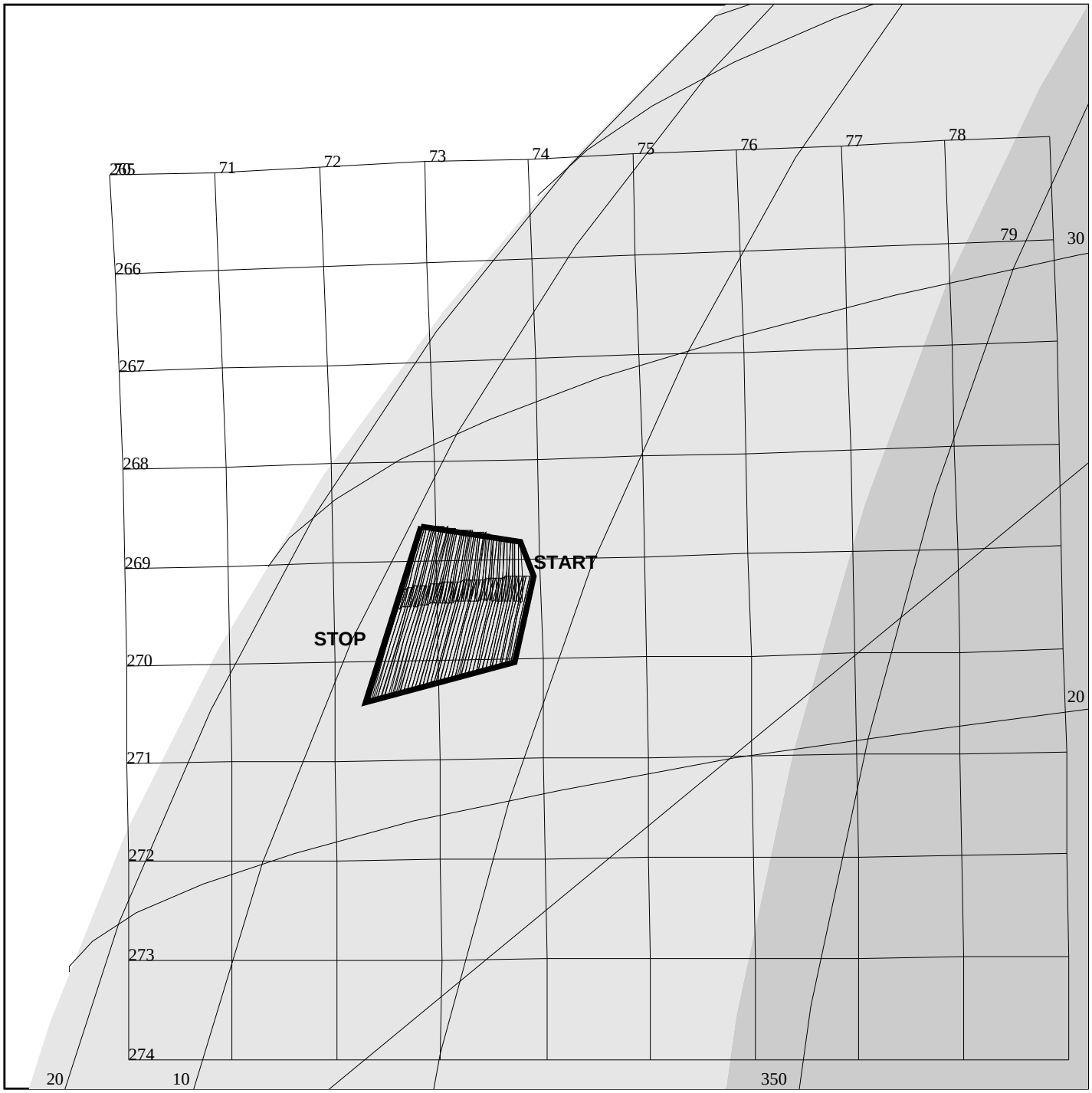
Data Returned

Design Detail

Instrument Mode: Long Map
Instrument Gain State: 4
Spatial Resolution: 41.7 km/nimsel
Spectral Resolution: 204-408 wavelengths
phase angle: 87.17
coverage in nimsels:
tracks:0.061

Continuous slew, full disk mosaic 3 hrs and 45 minutes prior to Callisto’s closest approach. Cover all lit longitudes and latitudes. Observation contains 8 swaths, Nyquist sampling, 20% overlap.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9CLM243C, C9CLM228C



165DD:TT= 0 TMC= 1 C= 10.50 XC= -5.00 BS= 0/4653 TC= 1(25 5)
A= 728 pD= 2176 SR=17.450 RA50= 87.92 DEC50= 36.28 cone= 73.81 clock=269.13
117DD:#SB= 1 OR= 0.060 RR=11.200 BM=F RC= 1 BS= 0/4653
1:#s= 2 Cs= -21.50 XCs= 0.00 Cr= 22.20 XCr= 8.00 sD= 1080 rD= 16

C9CNANARR_01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9CNANARR_01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CTE 97-176/13:48:07.600 +CDS 11:00:0 **BODY PLOT TIME:TARGET-TIME D= 2176 S= 4.500**

OBSERVATION:C9CNANARR_01 **DESCRIP:Anarr Crater Coverage**

Anarr Crater Coverage	ACTIVITY ID: C9CNANARR 01- START TIME: 97-176/13:54:11.600

Activity ID: Orbit C9 Target C Inst N OAPEL ANARR SeqNo 01 -

Title	Anarr Crater Coverage			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	Calendar Date 06/25/97 Week 26
Start	CTE+CDS 00000006:00:0	97-176/13:54:11.600	CTE+000/00:06:04.000
End	CTE+CDS 00000023:56:0	97-176/14:12:00.266	CTE+000/00:23:52.666
Duration	00000017:56:0	000/00:17:48.666	000/00:17:48.666

Top Label C9CNANARR 01-
Bottom Label

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

Observation Objective

To obtain high spectral and high spatial resolution data to determine composition, albedo, and distribution of minor constituents of one of Callisto’s high albedo craters.

Data Returned

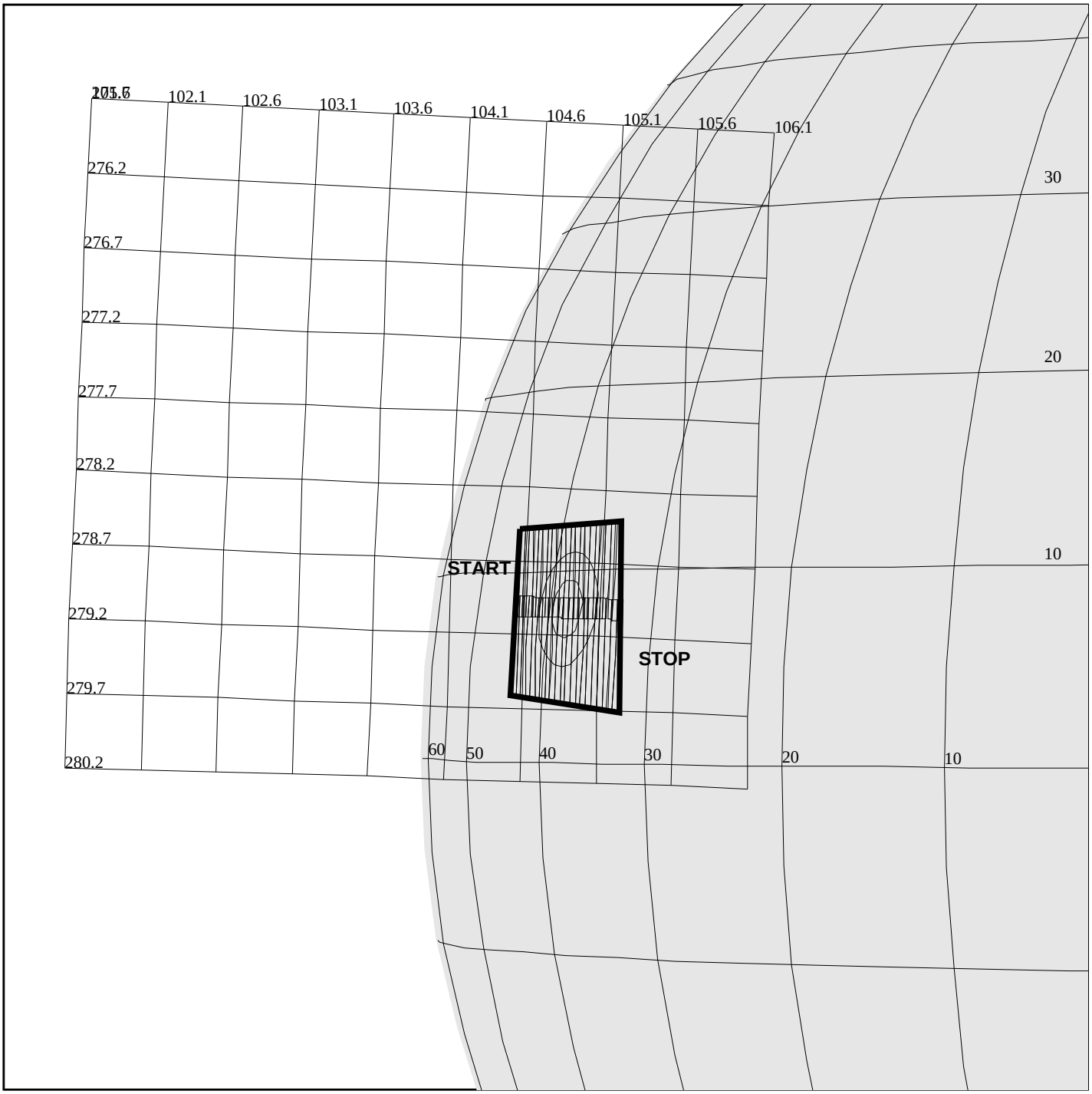
Design Detail

Instrument Mode: Long Map
Instrument Gain State: 4
Spatial Resolution: 2.017 km/nimsel
Spectral Resolution: 408 Wavelengths
phase angle: 117.13
coverage in nimsels:
54 km x 64.5 km tracks: 0.028

Forty-two degrees north latitude four degrees longitude.
Continuous slew mosaic of Anarr. Observation to occur 12 minutes after closest approach. Nyquist scan rate, 20% overlap between swaths.
2 swaths in the observation.

Long Map (LM), Gain 4, Grating Start 0, MPW, C9CLM442, C9CLM360

Galileo Activity Plan Form 06/09/97 10:29:39 rev 6/95



165DE:TT= 0 TMC= 1 C= -5.50 XC= -4.00 BS= 0/0113 TC= 1(8.0 38.0)
A= 728 pD= 2178 SR=17.450 RA50= 54.41 DEC50= 22.19 cone=104.60 clock=278.80
117DE:#SB= 1 OR= 0.030 RR= 3.800 BM=F RC= 1 BS= 0/0113
1:#s= 2 Cs= 10.75 XCs= 0.00 Cr= -10.75 XCr= 8.00 sD= 1080 rD= 18

C9CNSKULD_01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9CNSKULD_01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CTE 97-176/13:48:07.600 +CDS 41:00:0 **BODY PLOT TIME:TARGET-TIME D= 2178 S= 2.000**

OBSERVATION:C9CNSKULD_01 **DESCRIP:Skuld Crater Coverage**

Study of a Bright Crater	**ACTIVITY ID: C9CNSKULD 01-** **START TIME: 97-176/14:24:31.600**

Activity ID: Orbit C9 Target C Inst N OAPEL SKULD SeqNo 01 -

Title	**Study of a Bright Crater**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/M. SEGURA**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/25/97 Week 26**
Start	**CTE+CDS 00000036:00:0**	**97-176/14:24:31.600**		**CTE+000/00:36:24.000**	
End	**CTE+CDS 00000053:25:0**	**97-176/14:41:59.600**		**CTE+000/00:53:52.000**	
Duration	**00000017:25:0**	**000/00:17:28.000**		**000/00:17:28.000**	

Top Label	**C9CNSKULD 01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

To obtain high spatial and spectral resolution surface data containing high albedo crater located in Valhalla’s ring structure - crater surrounded by dark material - comparison of compositional differences.

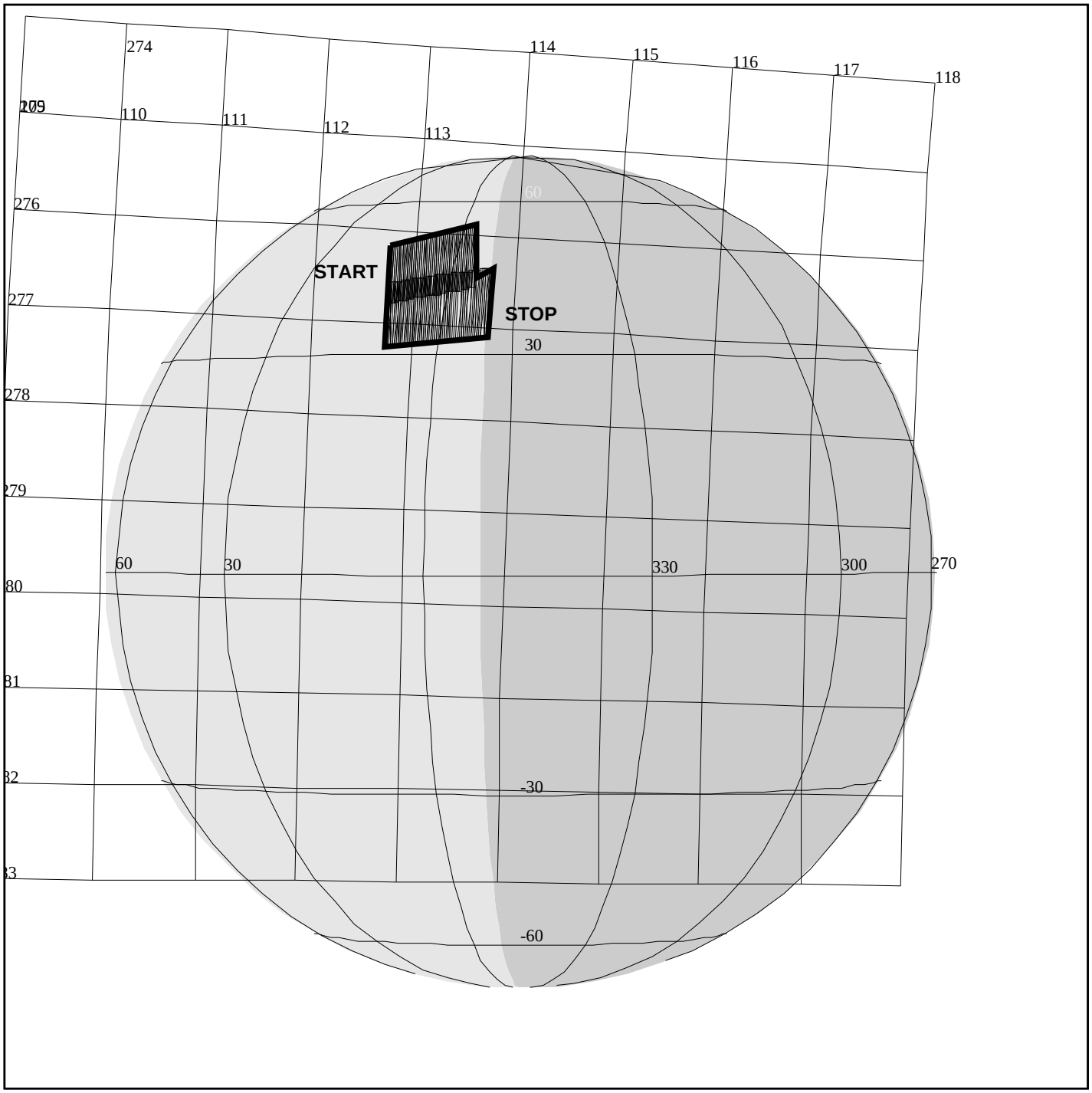
Data Returned

Design Detail

Two scans across Skuld.
Eight degrees north latitude.
Thirty-eight degrees longitude.

Long/Full map. Wavelengths: 204-408.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9CLM243C, C9CLM228C



165DF:TT= 0 TMC= 1 C= -25.00 XC= -50.00 BS= 0/5209 TC= 3
A= 182 pD= 0 SR=17.450 RA50= 45.33 DEC50= 21.77 cone=112.74 clock=276.48
117DF:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/5209
1:#s= 2 Cs= 23.00 XCs= 0.00 Cr= -13.00 XCr= 10.00 sD= 1158 rD= 34

C9CNNOLAT_01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9CNNOLAT_01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:CTE 97-176/13:48:07.600 +CDS 69:00:0

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

OBSERVATION:C9CNNOLAT_01

DESCRIP:Callisto North Latitude Coverage

North Latitude Coverage	ACTIVITY ID: C9CNNOLAT 01- START TIME: 97-176/14:56:52.933

Activity ID: Orbit C9 Target C Inst N OAPEL NOLAT SeqNo 01 -

Title	North Latitude Coverage			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	06/25/97 Week 26
Start	CTE+CDS 00000068:00:0	97-176/14:56:52.933		CTE+000/01:08:45.333	
End	CTE+CDS 00000081:88:0	97-176/15:11:00.266		CTE+000/01:22:52.666	
Duration	00000013:88:0	000/00:14:07.333		000/00:14:07.333	

Top Label	C9CNNOLAT 01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To obtain combined high spectral and high spatial resolution data in the northern latitudes. To determine composition of the "dark" areas, to search for evidence of ice-volcanism in Callisto's "early years".

Data Returned

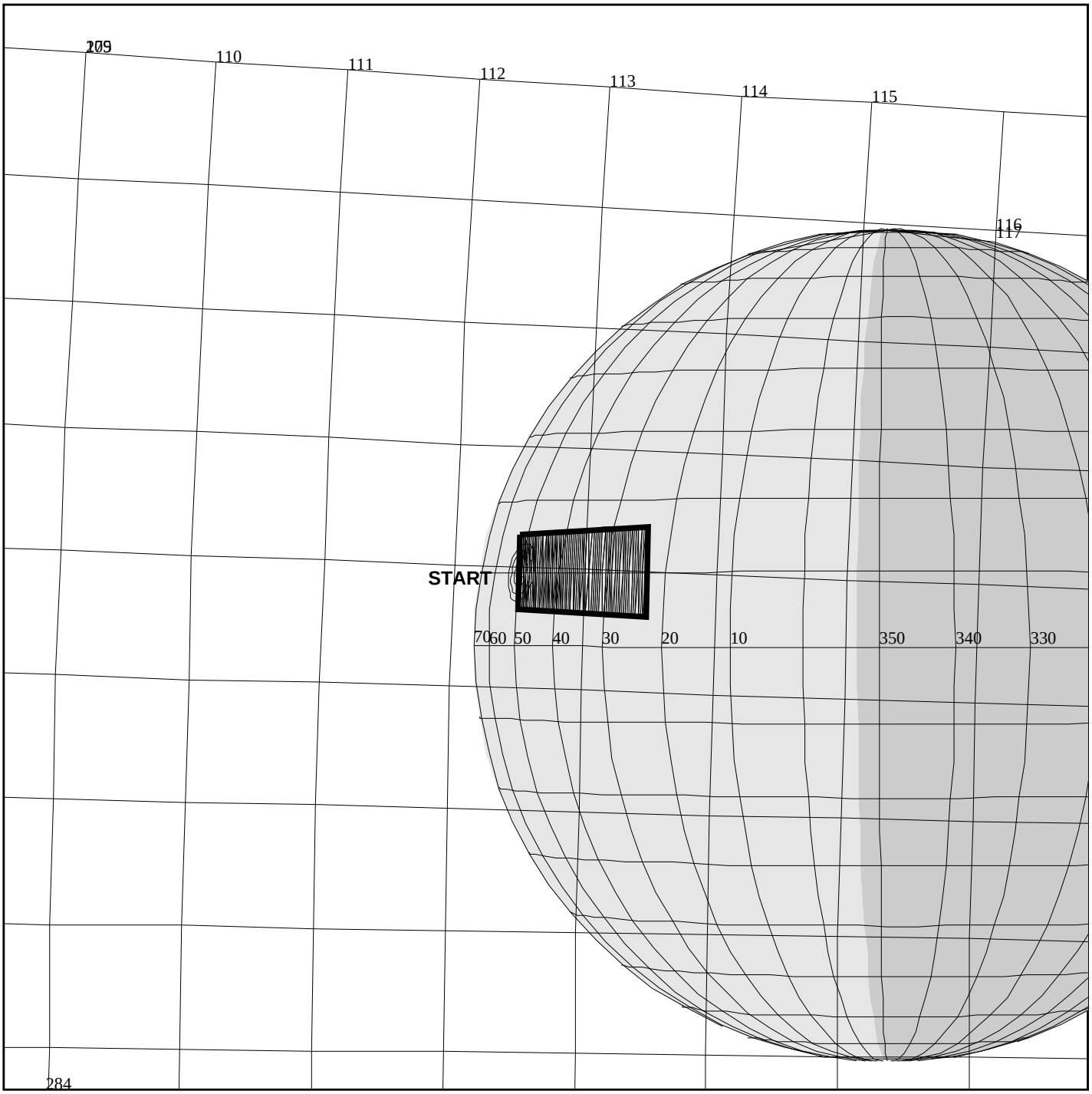
Design Detail

Instrument Mode: Full Map
Instrument Gain State: 4
Spatial Resolution: 27.45 km/nimsel
Spectral Resolution: 51 Wavelengths
Phase Angle: 93.21
coverage in nimsels :
tracks: 0.027

Start at Pole and work towards equator. Continuous slew mosaic of North latitudes, cover all lit longitudes. Nyquist scan rate, 20% overlap between swaths, 3 swaths.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9CLM243C, C9CLM228C

Galileo Activity Plan Form 06/09/97 10:29:39 rev 6/95



165DG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9031 TC= 1(10.0 50.0)
A= 728 pD= 0 SR=17.450 RA50= 46.40 DEC50= 19.62 cone=112.50 clock=279.04
117DG:#SB= 1 OR= 0.030 RR= 6.500 BM=F RC= 1 BS= 0/9031
1:#s= 1 Cs= 34.40 XCs= 0.00 Cr= -15.50 XCr= 8.00 sD= 3448 rD= 18

C9CNVALSPC01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9CNVALSPC01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:CTE 97-176/13:48:07.600 +CDS 90:00:0

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

OBSERVATION:C9CNVALSPC01

DESCRIP:Valhalla Spectral Observation

Valhalla Spectral Scan	**ACTIVITY ID: C9CNVALSPC01-** **START TIME: 97-176/15:14:04.266**

Activity ID: Orbit C9 Target C Inst N OAPEL VALSPC SeqNo 01 -

Title	**Valhalla Spectral Scan**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/M. SEGURA**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/25/97 Week 26**
Start	**CTE+CDS 00000085:00:0**	**97-176/15:14:04.266**	**CTE+000/01:25:56.666**
End	**CTE+CDS 00000109:60:0**	**97-176/15:39:00.266**	**CTE+000/01:50:52.666**
Duration	**00000024:60:0**	**000/00:24:56.000**	**000/00:24:56.000**

Top Label	**C9CNVALSPC01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

To determine minor constituent distribution/differences over Valhalla’s Palimpsest and ring structure.

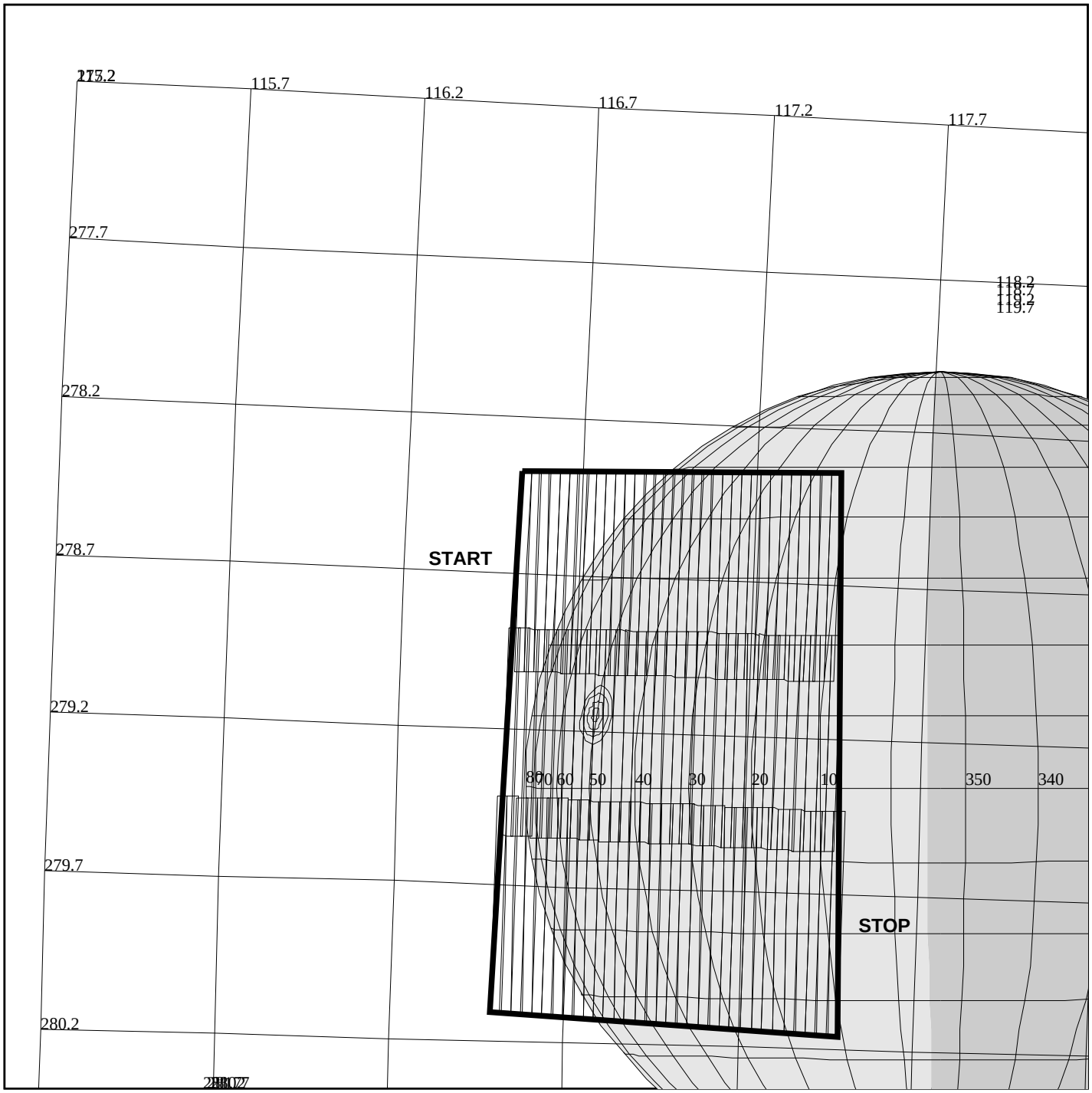
Data Returned

Design Detail

One scan at LM mode.
Gain state = 4

Starting at fifty degrees longitude and plus ten degrees latitude.
Nyquist sampling.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9CLM243C, C9CLM228C



165DH:TT= 0 TMC= 1 C= -4.00 XC= -7.00 BS= 0/6512 TC= 1(10.0 50.0)
A= 728 pD= 0 SR=17.450 RA50= 42.29 DEC50= 18.57 cone=116.51 clock=278.72
117DH:#SB= 1 OR= 0.030 RR= 6.500 BM=F RC= 1 BS= 0/6512
1:#s= 3 Cs= 17.00 XCs= 0.00 Cr= -15.50 XCr= 8.00 sD= 1704 rD= 18

C9CNVALHAL01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9CNVALHAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CEE 97-176/13:48:07.600 +CDS 241:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9CNVALHAL01 **DESCRIP:Valhalla Multi-Ring Structure**

Valhalla Multi-Ring Structure Obs	**ACTIVITY ID: C9CNVALHAL01-** **START TIME: 97-176/17:46:44.933**

Activity ID: Orbit C9 Target C Inst N OAPEL VALHAL SeqNo 01 -

Title	**Valhalla Multi-Ring Structure Obs**	**Instrument**	**NIMS**
Requestor	**NIMS-SWG/M. SEGURA**	**Team NIMS**	**Working Group SWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/25/97 Week 26**
Start	**CTE+CDS 00000236:00:0**	**97-176/17:46:44.933**	**CTE+000/03:58:37.333**
End	**CTE+CDS 00000269:80:0**	**97-176/18:21:00.266**	**CTE+000/04:32:52.666**
Duration	**00000033:80:0**	**000/00:34:15.333**	**000/00:34:15.333**

Top Label	**C9CNVALHAL01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

The objective is to determine the composition and albedo of Valhalla's Palimpsest, and the ring structure. High spectral resolution data at lower spatial resolution. This is the first NIMS observation of callisto's largest multi-ring structure.

Data Returned

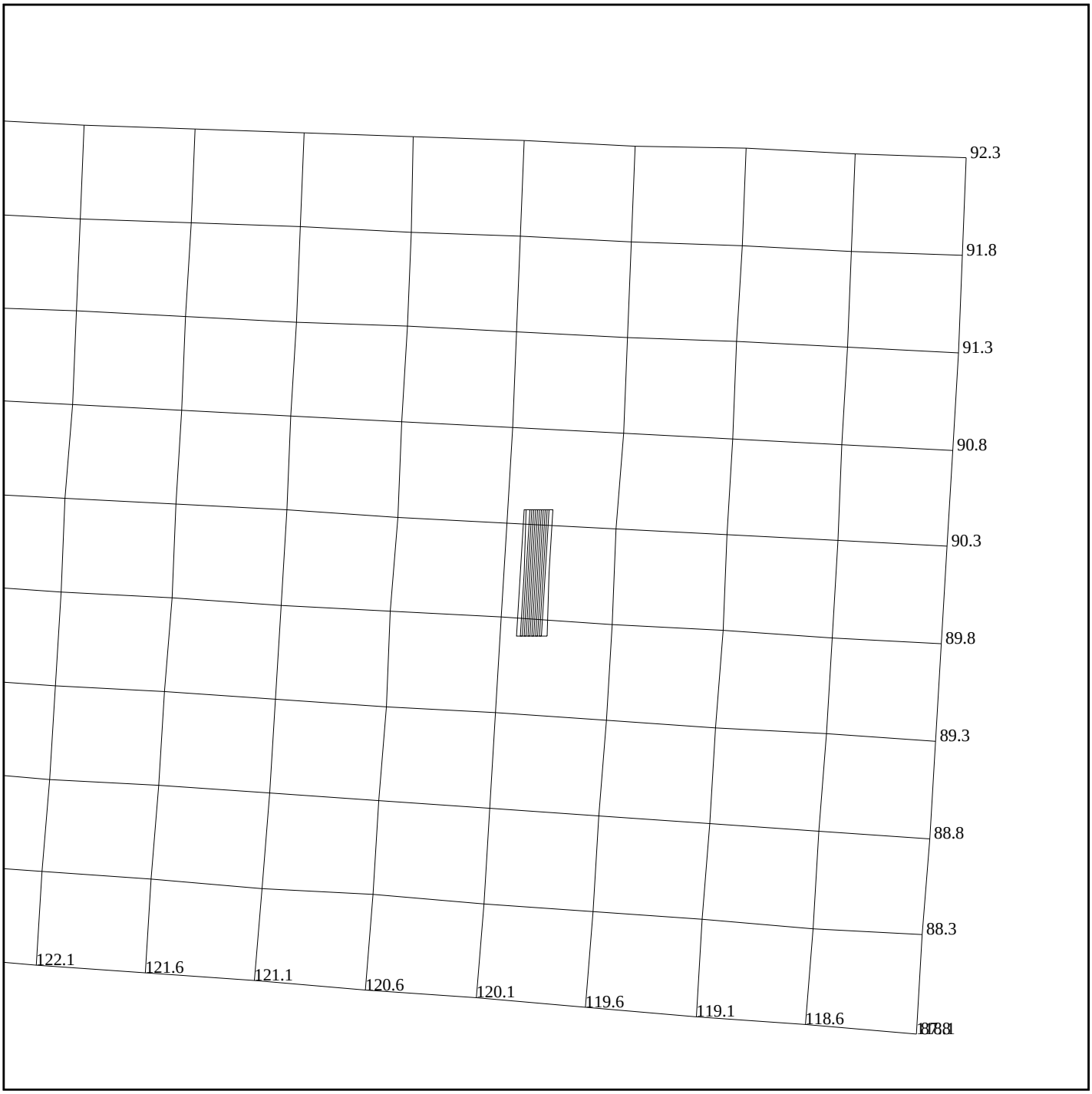
Design Detail

Instrument Mode: Full Map
Instrument Gain State: 4
Spatial Resolution:55.9 km/nimsel
Spectral Resolution: 102 wavelengths
Phase Angle: 91.73
Coverage in nimsels: 4000
tracks: 0.133

Twenty all the way to eighty degrees longitude. Forty degrees north latitude, twenty degrees south latitude. Continuous slew mosaic of the Valhalla region at 4 hrs after closest approach. Observation contains Nyquist scan rate, 20% overlap between scans, 4 swaths.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9CLM243C, C9CLM228C

Galileo Activity Plan Form	**06/09/97 10:29:39**	**rev 6/95**



165DB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2518 TC= 2(120 90)
A= 728 pD= 0 SR=17.450 RA50=284.64 DEC50=-34.06 cone=120.00 clock= 90.00
117DB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2518
1:#s= 1 Cs= -1.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9HNDARK__01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9HNDARK__01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:CEE 97-176/13:48:07.600 +CDS 274:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9HNDARK__01 **DESCRIP:NIMS_DARK_OBSERVATION**

NIMS Dark Observation				**ACTIVITY ID:**	**C9HNDARK__01-**
				START TIME:	**97-176/18:20:57.600**

Activity ID: Orbit C9 Target H Inst N OAPEL DARK__ SeqNo 01 -

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

Time System	**CDS**	**Load ID**	**Calendar Date** **06/25/97** **Week** **26**
Start	**CEE+CDS 00000269:76:0**	**97-176/18:20:57.600**	**CEE+000/04:32:50.000**
End	**CEE+CDS 00000275:00:0**	**97-176/18:26:10.933**	**CEE+000/04:38:03.333**
Duration	**00000005:15:0**	**000/00:05:13.333**	**000/00:05:13.333**

Top Label	**C9HNDARK__01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

Collect Dark Values for calibration purposes.

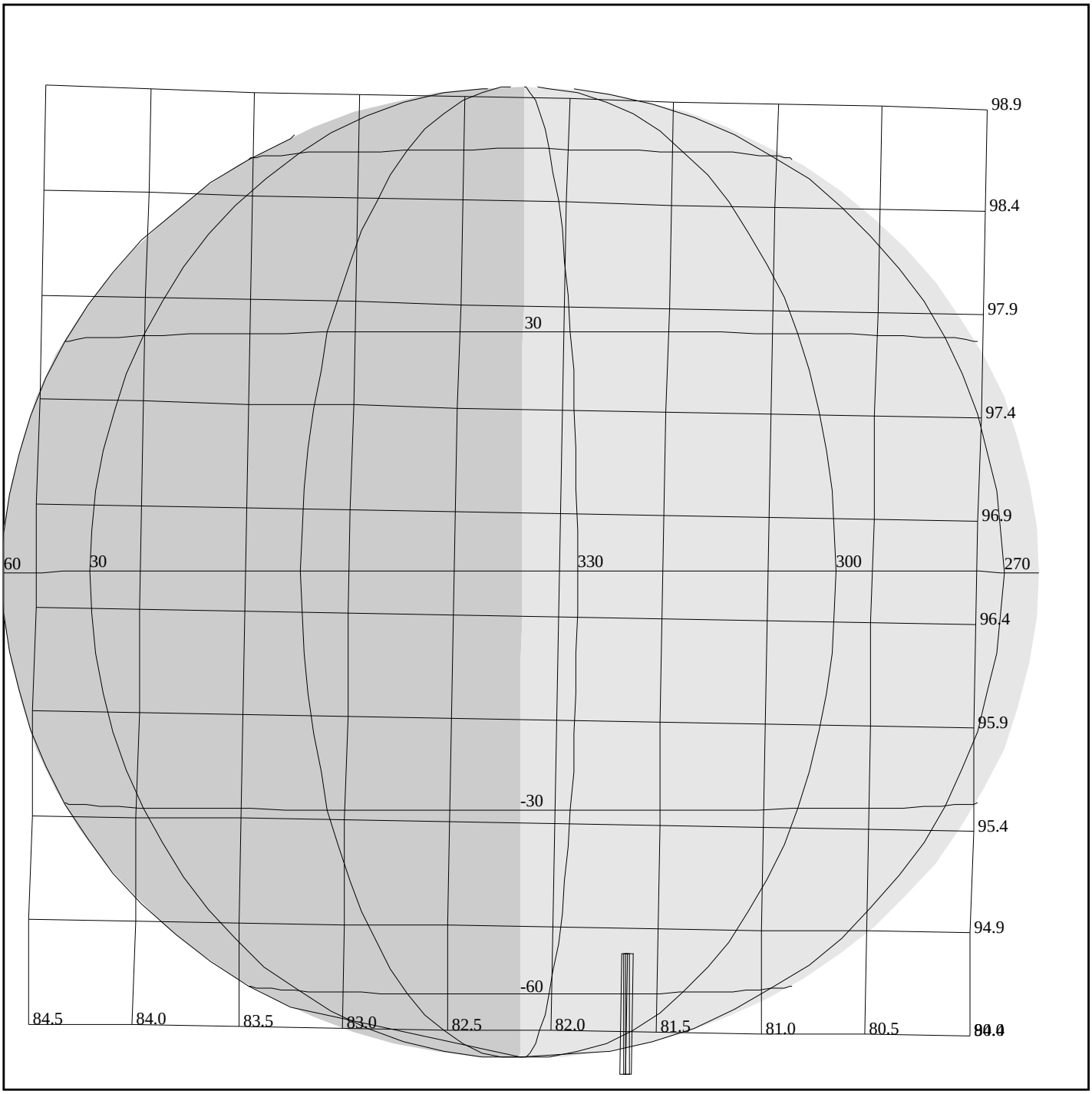
Data Returned

Design Detail

Slew to dark space and record 1 RIM of dark values.
Long Map
Gain State 4

Long Map (LM), Gain 4, Grating Start 0, LPU, C9DRK252, C9DRK252

Galileo Activity Plan Form **06/09/97 10:29:39 rev 6/95**



165FE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6916 TC= 1(-65 310)
A= 728 pD= 546 SR=17.450 RA50=218.05 DEC50=-19.15 cone= 81.65 clock= 94.47

C9JNSRTAUR01

DESIGN G3.1 jdods: 6/10/1997 16: 5:34

FILE:P.C9JNSRTAUR01

CENTRAL BODY:JUPITER III

MINI:m.C9JNSRTAUR01

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 97-178/11:57:33.466 -CDS 2276:00:0 **BODY PLOT TIME:TARGET-TIME D= 546 S= 1.000**

OBSERVATION:C9JNSRTAUR01 **DESCRIP:NIMS_Jupiter_Real_Time_North_Aur**

NIMS Jupiter Real-Time South Aurora Obs	ACTIVITY ID: C9JNSRTAUR01- START TIME: 97-176/21:31:12.800

Activity ID: Orbit C9 Target J Inst N OAPEL SRTAUR SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	06/25/97 Week 26
Start	JEE-CDS 00002281:00:0	97-176/21:31:12.800		JEE-001/14:26:20.666	
End	JEE-CDS 00002272:00:0	97-176/21:40:18.800		JEE-001/14:17:14.666	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	C9JNSRTAUR01-				
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

Auroral and thermal emission spectroscopy of the South Pole at about 20 Rj (near Callisto’s orbit).

Data Returned

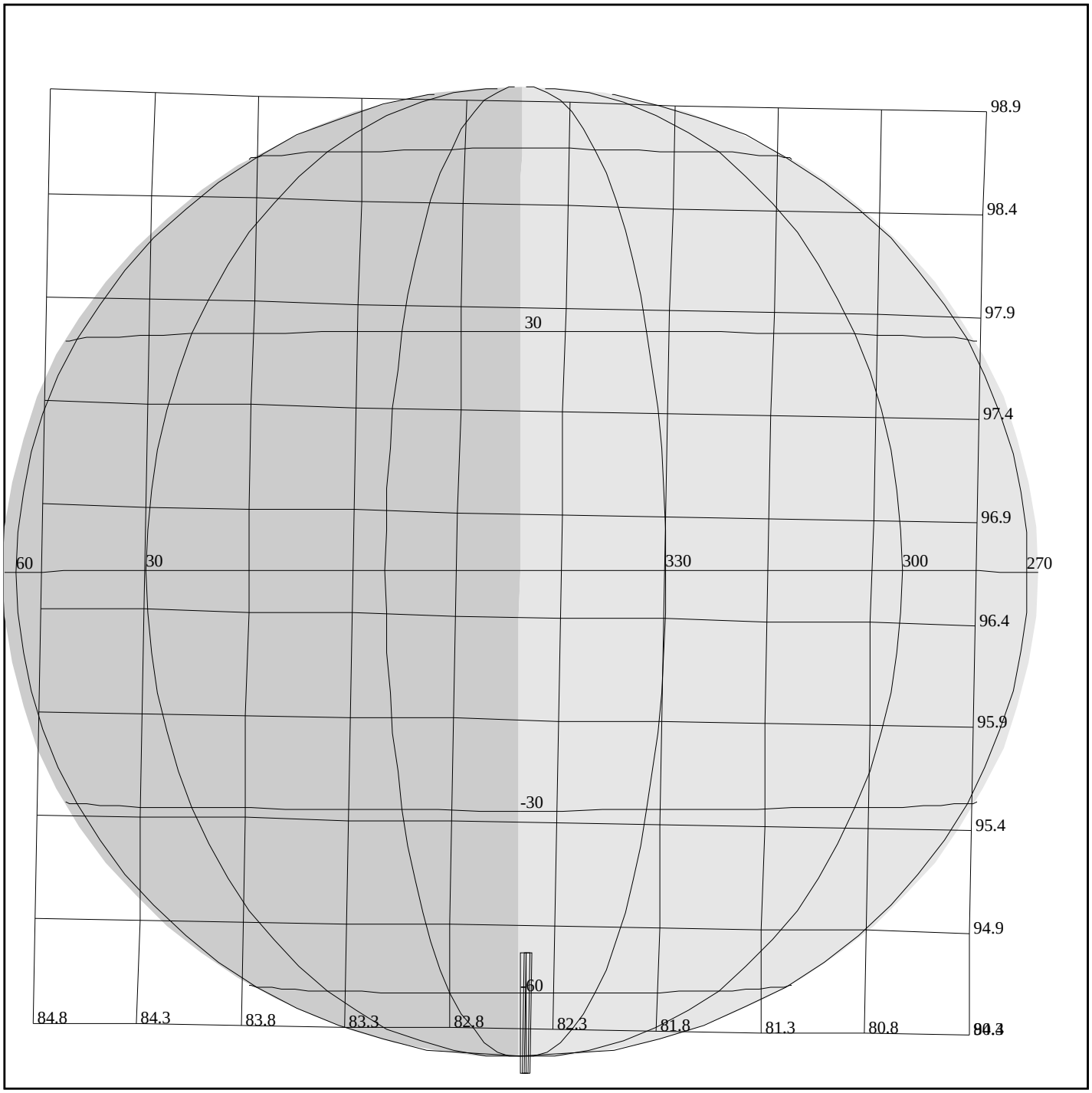
Design Detail

Longmap, 4-mirror position, relative spectra of the nightside of the South Pole. This is the first observation of six, acquired almost hourly from 97-176/20:15:23 to 97-176/03:35:13. Targetted at 65 degrees South latitude, at 310 degrees West, 15 degrees longitude relative to the terminator on the nightside. Observation uses start/stop mosaic to stay pointed at the designed latitude and relative longitude. Eleven RIMS of data (maximum). (3 RIMS minimum).

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

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

Galileo Activity Plan Form 06/09/97 10:29:39 rev 6/95



165FQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9828 TC= 1(-65 345)
A= 728 pD= 546 SR=17.450 RA50=218.80 DEC50=-19.41 cone= 82.41 clock= 94.44

C9JNSRTAUR02

DESIGN G3.1 jdods: 6/10/1997 16: 6:15

FILE:P.C9JNSRTAUR02

CENTRAL BODY:JUPITER III

MINI:m.C9JNSRTAUR02

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 97-178/11:57:33.466 -CDS 2260:00:0 **BODY PLOT TIME:TARGET-TIME D= 546 S= 1.000**

OBSERVATION:C9JNSRTAUR02 **DESCRIP:NIMS_Jupiter_Real_Time_North_Aur**

NIMS Jupiter Real-Time South Aurora Obs ACTIVITY ID: C9JNSRTAUR02-
START TIME: 97-176/21:47:23.466

Activity ID: Orbit C9 Target J Inst N OAPEL SRTAUR SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date 06/25/97 Week 26
Start	JEE-CDS 00002265:00:0	97-176/21:47:23.466	JEE-001/14:10:10.000
End	JEE-CDS 00002256:00:0	97-176/21:56:29.466	JEE-001/14:01:04.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label C9JNSRTAUR02-
Bottom Label

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

nd thermal emission spectroscopy of the South Pole at about 20 Rj
(near Callisto’s orbit).

Data Returned

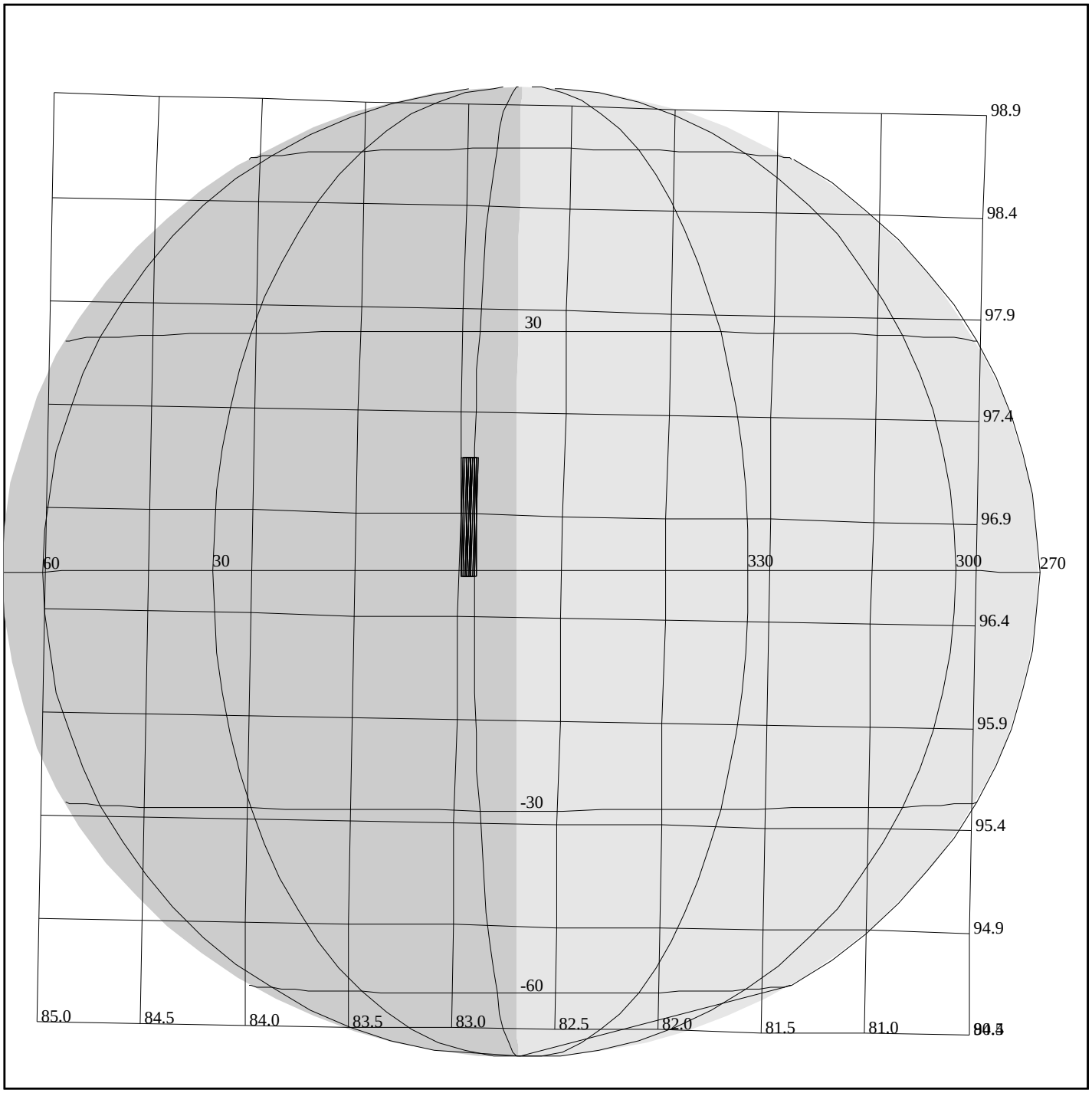
Design Detail

Longmap, 4-mirror position, relative spectra of the nightside of the South Pole. This is the second observation of six, acquired almost hourly from 97-176/20:15:23 to 97-176/03:35:13. Targetted at 65 degrees South latitude, 345 degrees longitude at 15 degrees longitude relative to the terminator on the nightside. Observation uses start/stop mosaic to stay pointed at the designed latitude and relative longitude.
Eleven RIMS of data (maximum). (3 RIMS minimum).

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

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

Galileo Activity Plan Form 06/09/97 10:29:39 rev 6/95



165MB:TT= 0 TMC= 1 C= 0.88 XC= 0.00 BS= 0/2740 TC= 1(6.5 0)
A= 688 pD= 0 SR=17.450 RA50=220.18 DEC50=-17.33 cone= 83.01 clock= 96.84

C9JNRTHOTS01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNRTHOTS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-178/11:57:33.466 -CDS 2244:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9JNRTHOTS01 **DESCRIP:NIMS_Jupiter_Real-Time_Hotspot**

NIMS Jupiter Real-Time Hotspot Obs	ACTIVITY ID: C9JNRTHOTS01- START TIME: 97-176/22:04:34.800

Activity ID: Orbit C9 Target J Inst N OAPEL RTHOTS SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date 06/25/97 Week 26
Start	JEE-CDS 00002248:00:0	97-176/22:04:34.800	JEE-001/13:52:58.666
End	JEE-CDS 00002241:54:0	97-176/22:11:03.466	JEE-001/13:46:30.000
Duration	00000006:37:0	000/00:06:28.666	000/00:06:28.666

Top Label	C9JNRTHOTS01-				
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

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

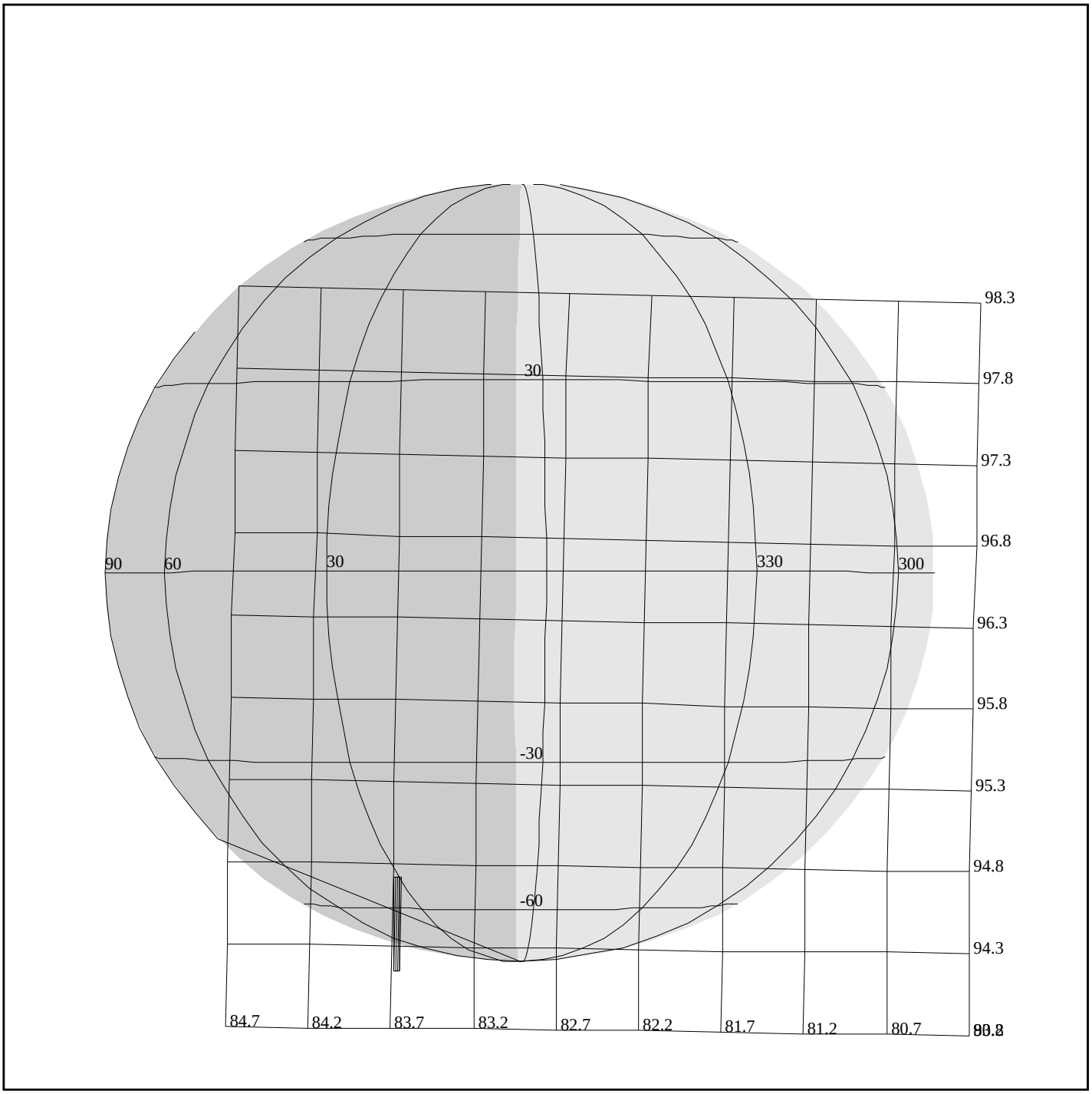
Design Detail

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 06/09/97 10:29:39 rev 6/95



165FU:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5288 TC= 1(-65 45)
A= 728 pD= 546 SR=17.450 RA50=220.10 DEC50=-19.84 cone= 83.70 clock= 94.41

C9JNSRTAUR03

DESIGN G3.1 jdods: 6/10/1997 16: 7:20

FILE:P.C9JNSRTAUR03

CENTRAL BODY:JUPITER III

MINI:m.C9JNSRTAUR03

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 97-178/11:57:33.466 -CDS 2230:00:0 **BODY PLOT TIME:TARGET-TIME D= 546 S= 0.800**

OBSERVATION:C9JNSRTAUR03 **DESCRIP:NIMS_Jupiter_Real_Time_North_Aur**

NIMS Jupiter Real-Time South Aurora Obs ACTIVITY ID: C9JNSRTAUR03-
START TIME: 97-176/22:17:43.466

Activity ID: Orbit C9 Target J Inst N OAPEL SRTAUR SeqNo 03 -

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

Time System	CDS	Load ID	Calendar Date 06/25/97 Week 26
Start	JEE-CDS 00002235:00:0	97-176/22:17:43.466	JEE-001/13:39:50.000
End	JEE-CDS 00002226:00:0	97-176/22:26:49.466	JEE-001/13:30:44.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	C9JNSRTAUR03-				
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

Auroral and thermal emission spectroscopy of the South Pole at about 20 Rj (near Callisto’s orbit).

Data Returned

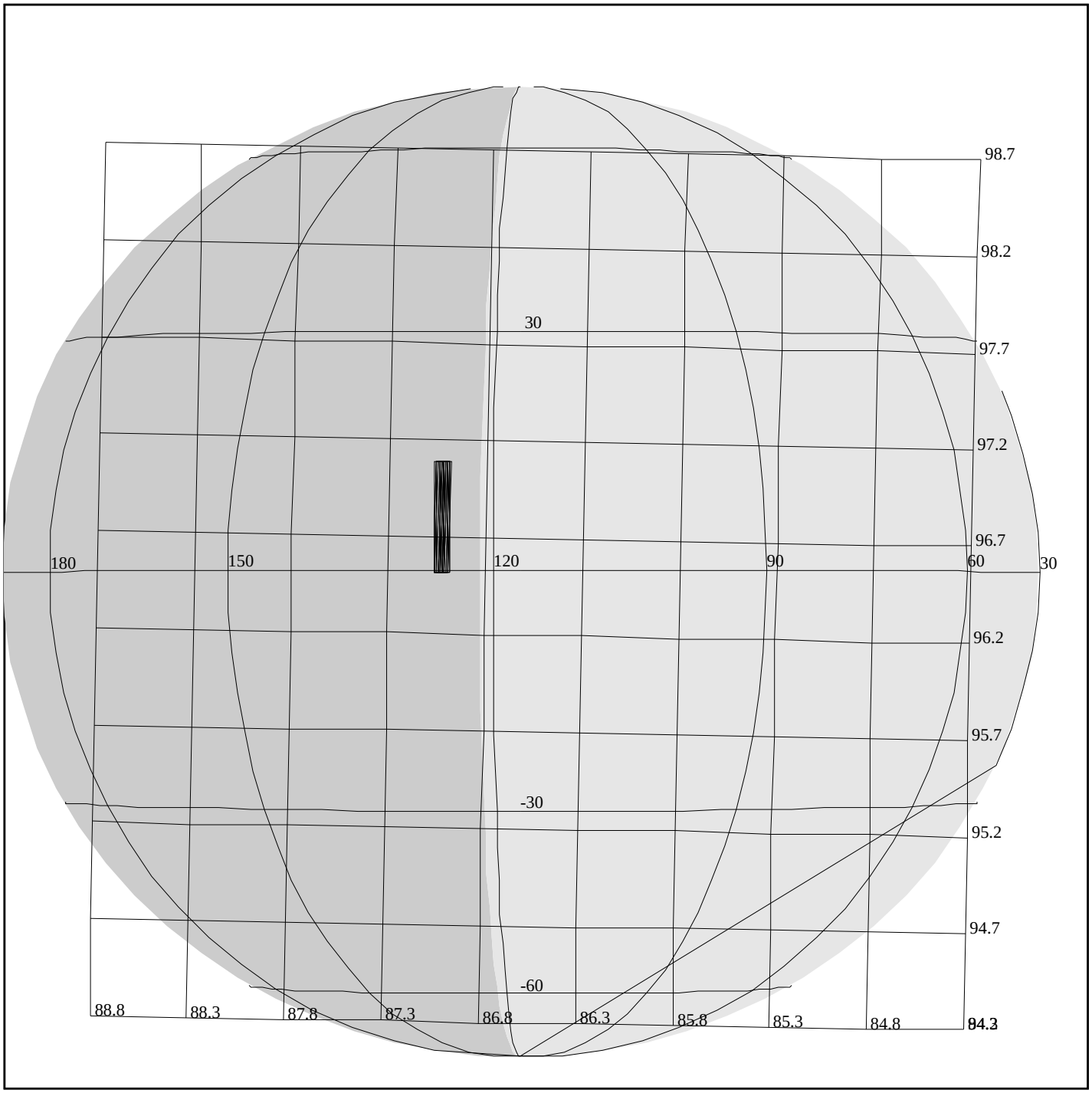
Design Detail

Longmap, 4-mirror position, relative spectra of the nightside of the South Pole. This is the third observation of six, acquired almost hourly from 97-176/20:15:23 to 97-176/03:35:13. Targetted at 65 degrees South latitude, 45 degrees West longitude at 15 degrees longitude relative to the terminator on the nightside. Observation uses start/stop mosaic to stay pointed at the designed latitude and relative longitude.
Eleven RIMS of data (maximum). (3 RIMS minimum).

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

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

Galileo Activity Plan Form 06/09/97 10:29:40 rev 6/95



165MC:TT= 0 TMC= 1 C= 0.88 XC= 0.00 BS= 0/0232 TC= 1(6.5 125)
A= 182 pD= 0 SR=17.450 RA50=224.19 DEC50=-18.57 cone= 87.02 clock= 96.77

C9JNRTHOTS02

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNRTHOTS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-178/11:57:33.466 -CDS 2038:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9JNRTHOTS02 **DESCRIP:NIMS_Jupiter_Real-Time_Hotspot**

NIMS Jupiter Real-Time Hotspot Obs	ACTIVITY ID: C9JNRTHOTS02- START TIME: 97-177/01:34:53.466

Activity ID: Orbit C9 Target J Inst N OAPEL RTHOTS SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date 06/26/97 Week 26
Start	JEE-CDS 00002040:00:0	97-177/01:34:53.466	JEE-001/10:22:40.000
End	JEE-CDS 00002034:81:0	97-177/01:40:03.466	JEE-001/10:17:30.000
Duration	00000005:10:0	000/00:05:10.000	000/00:05:10.000

Top Label	C9JNRTHOTS02-				
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

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

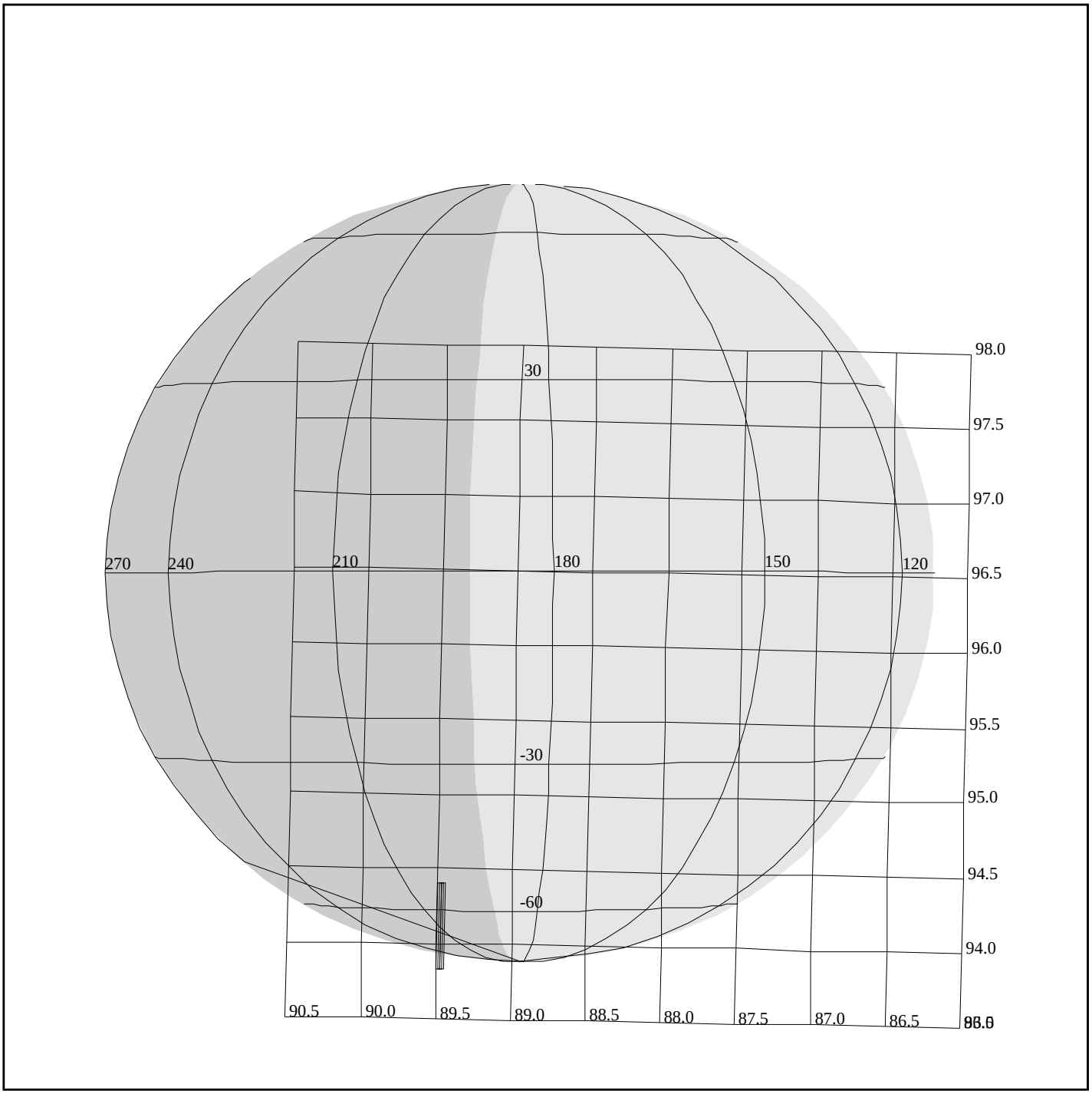
Design Detail

Long Map real-time 1-RIM spectra at 4 mirror positions centered on the Hotspot region.
NIMSel coordinates: 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.

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

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

Galileo Activity Plan Form 06/09/97 10:29:40 rev 6/95



165DM:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0980 TC= 1(-65 210)
A= 728 pD= 546 SR=17.450 RA50=225.88 DEC50=-21.83 cone= 89.45 clock= 94.07

C9JNSRTAUR06

DESIGN G3.1 jdods: 6/10/1997 16: 8:13

FILE:P.C9JNSRTAUR06

CENTRAL BODY:JUPITER III

MINI:m.C9JNSRTAUR06

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 97-178/11:57:33.466 -CDS 1924:00:0 **BODY PLOT TIME:TARGET-TIME D= 546 S= 0.800**

OBSERVATION:C9JNSRTAUR06 **DESCRIP:NIMS_Jupiter_Real_Time_North_Aur**

NIMS Jupiter Real-Time South Aurora Obs	ACTIVITY ID: C9JNSRTAUR06- START TIME: 97-177/03:27:07.466

Activity ID:	Orbit C9 Target J Inst N OAPEL SRTAUR SeqNo 06 -		
Title	NIMS Jupiter Real-Time South Aurora Obs	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 06/26/97 Week 26
Start	JEE-CDS 00001929:00:0	97-177/03:27:07.466	JEE-001/08:30:26.000
End	JEE-CDS 00001920:00:0	97-177/03:36:13.466	JEE-001/08:21:20.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	C9JNSRTAUR06-				
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

Auroral and thermal emission spectroscopy of the South Pole at about 20 Rj (near Callisto’s orbit).

Data Returned

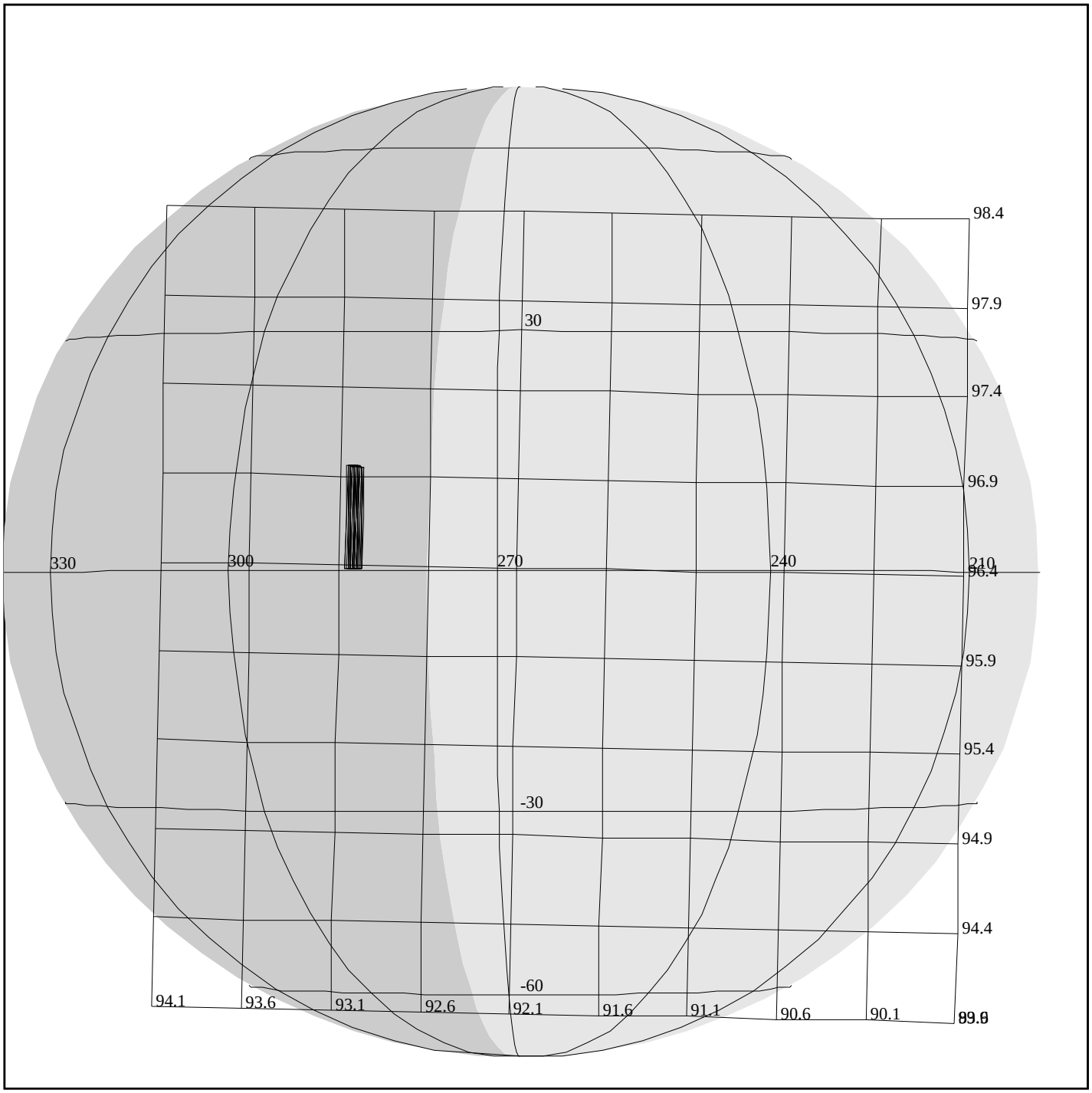
Design Detail

Longmap, 4-mirror position, relative spectra of the nightside of the South Pole. This is the sixth observation of six, acquired almost hourly from 97-176/20:15:23 to 97-176/03:35:13. Targetted at 65 degrees South latitude, 210 degrees West longitude at 15 degrees longitude relative to the terminator on the nightside. Observation uses start/stop mosaic to stay pointed at the designed latitude and relative longitude.
Eleven RIMS of data (maximum). (3 RIMS minimum).

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

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

Galileo Activity Plan Form	06/09/97 10:29:40	rev 6/95



165MD:TT= 0 TMC= 1 C= 0.88 XC= 0.00 BS= 0/6642 TC= 1(6.5 285)
A= 182 pD= 0 SR=17.450 RA50=230.37 DEC50=-20.27 cone= 93.09 clock= 96.66

C9JNRTHOTS03

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNRTHOTS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-178/11:57:33.466 -CDS 1783:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9JNRTHOTS03 **DESCRIP:NIMS_Jupiter_Real-Time_Hotspot**

NIMS Jupiter Real-Time Hotspot Obs	**ACTIVITY ID: C9JNRTHOTS03-** **START TIME: 97-177/05:52:43.466**

Activity ID: Orbit C9 Target J Inst N OAPEL RTHOTS SeqNo 03 -

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

Time System	**CDS**	**Load ID**	**Calendar Date 06/26/97 Week 26**
Start	**JEE-CDS 00001785:00:0**	**97-177/05:52:43.466**	**JEE-001/06:04:50.000**
End	**JEE-CDS 00001779:66:0**	**97-177/05:58:03.466**	**JEE-001/05:59:30.000**
Duration	**00000005:25:0**	**000/00:05:20.000**	**000/00:05:20.000**

Top Label	**C9JNRTHOTS03-**				
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

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

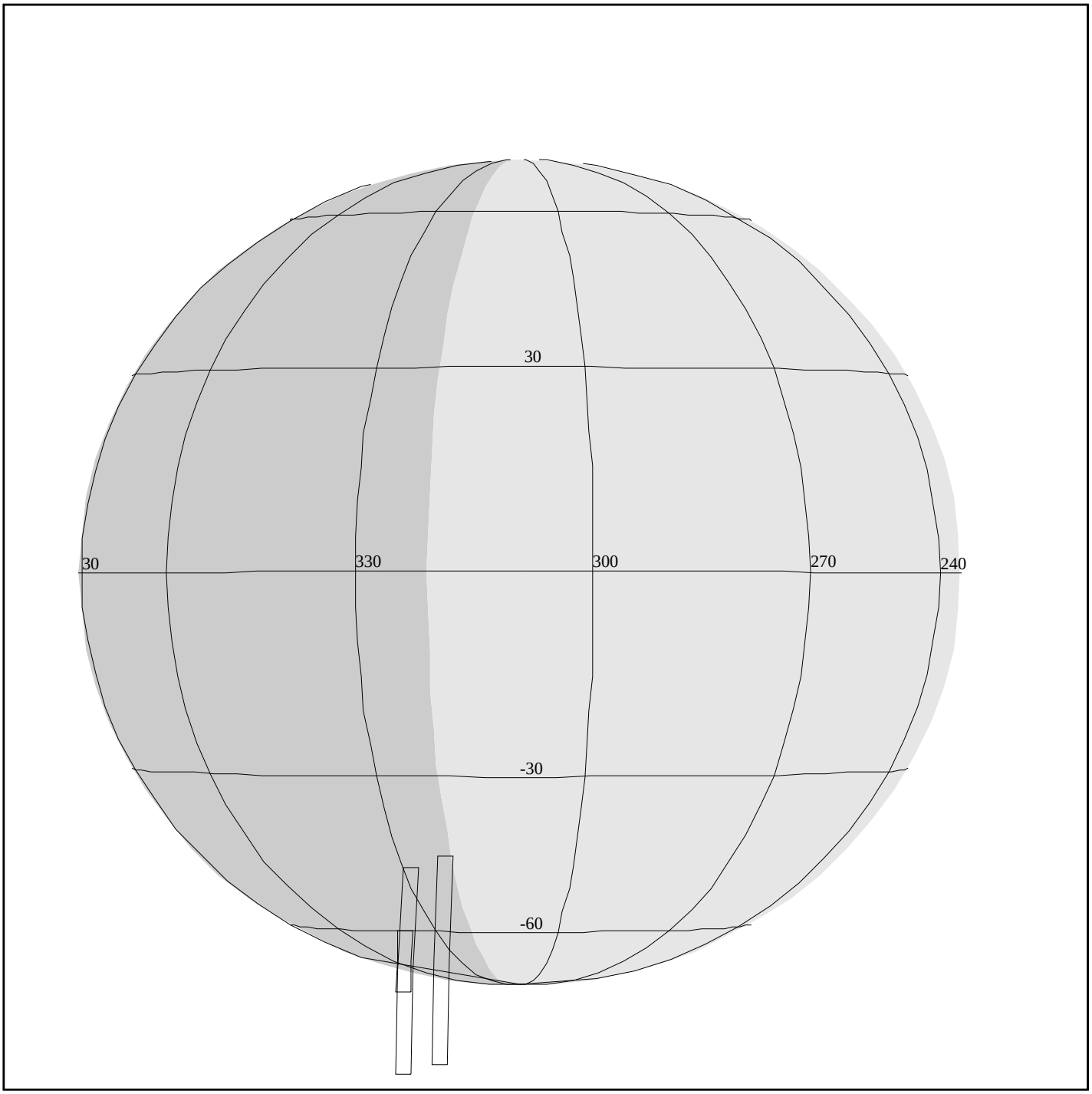
Design Detail

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	**06/09/97 10:29:40**	**rev 6/95**



165AH:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9564 TC= 1(-70 355)
A= 364 pD= 0 SR=17.450 RA50=231.14 DEC50=-23.51 cone= 94.57 clock= 93.68
165AK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/4296 TC= 1(-75 35)
A= 364 pD= 0 SR=17.450 RA50=231.81 DEC50=-23.76 cone= 95.22 clock= 93.58

C9JNAURMAP01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JUAURMAP03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING: :UVS 1**

START:JEE 97-178/11:57:33.466 -CDS 1712:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JUAURMAP03 **DESCRIP:Auroral_Asymmetry_Map**

NIMS Ride Along with UVS	**ACTIVITY ID: C9JNAURMAP01+** **START TIME: 97-177/07:33:50.133**

Activity ID: Orbit C9 Target J Inst N OAPEL AURMAP SeqNo 01 +

Title	**NIMS Ride Along with UVS**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/26/97 Week 26**
Start	**JEE-CDS 00001685:00:0**	**97-177/07:33:50.133**	**JEE-001/04:23:43.333**
End	**JEE-CDS 00001667:00:0**	**97-177/07:52:02.133**	**JEE-001/04:05:31.333**
Duration	**00000018:00:0**	**000/00:18:12.000**	**000/00:18:12.000**

Top Label	**C9JNAURMAP01+**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**40**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Southern auroral map of nightside between 260-360 longitudes.
Observe color ratios for H2 band particle energies.

Data Returned

Design Detail

Ride-along with UVS (C9JUAURMAP03).
Select 3 RIMS of real-time data.

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

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

Galileo Activity Plan Form 06/09/97 10:29:40 rev 6/95

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NIMS Real-Time Software Reload	**ACTIVITY ID: C9NNRELOAD01-** **START TIME: 97-177/11:21:20.200**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 01 -

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

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/26/97 Week 26**
Start	**GEE-CDS 00000355:00:0**	**97-177/11:21:20.200**		**GEE-000/05:58:56.666**	
End	**GEE-CDS 00000345:00:0**	**97-177/11:31:26.866**		**GEE-000/05:48:50.000**	
Duration	**00000010:00:0**	**000/00:10:06.666**		**000/00:10:06.666**	

Top Label	**C9NNRELOAD01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

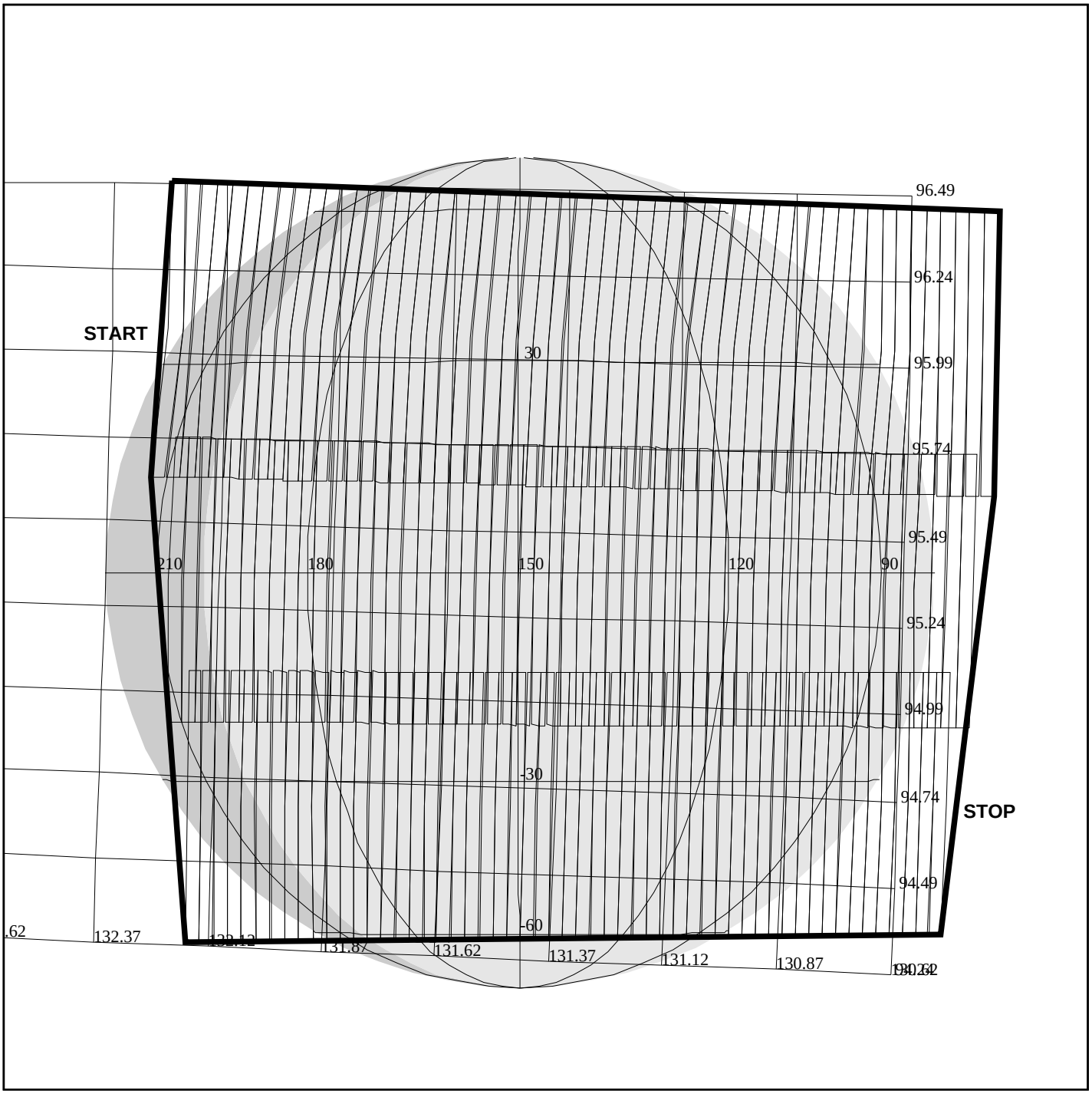
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

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.



165DI:TT= 0 TMC= 1 C= 12.00 XC= 8.00 BS= 0/0888 TC= 3
A= 546 pD= 8554 SR=17.450 RA50=268.29 DEC50=-25.03 cone=128.30 clock= 96.08
117DI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0888
1:#s= 3 Cs= -28.20 XCs= 0.00 Cr= 28.20 XCr= -8.50 sD= 2834 rD= 26

C9GNGLOBAL01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9GNGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:GEE 97-177/17:20:16.866 -CDS 325:00:0

BODY PLOT TIME:END-TIME D= 8554 S= 0.800

OBSERVATION:C9GNGLOBAL01

DESCRIP:Ganymede Global Map 01

Global Surface Map	**ACTIVITY ID: C9GNGLOBAL01-** **START TIME: 97-177/11:47:37.533**

Activity ID: Orbit C9 Target G Inst N OAPEL GLOBAL SeqNo 01 -

Title	**Global Surface Map**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/J. HUI**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/26/97 Week 26**
Start	**GEE-CDS 00000329:00:0**	**97-177/11:47:37.533**	**GEE-000/05:32:39.333**
End	**GEE-CDS 00000277:00:0**	**97-177/12:40:12.200**	**GEE-000/04:40:04.666**
Duration	**00000052:00:0**	**000/00:52:34.667**	**000/00:52:34.667**

Top Label	**C9GNGLOBAL01-**				
Bottom Label	**NIMS Ganymede**				
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

To obtain high spectral resolution map of the Ganymede’s surface. This observation investigates the surface mineralogy and distribution of compositional units in a global context. The global map can be used to compare Ganymede to the other satellites to look for similarity and differences. The longitude coverage is 60 to 200 degrees.

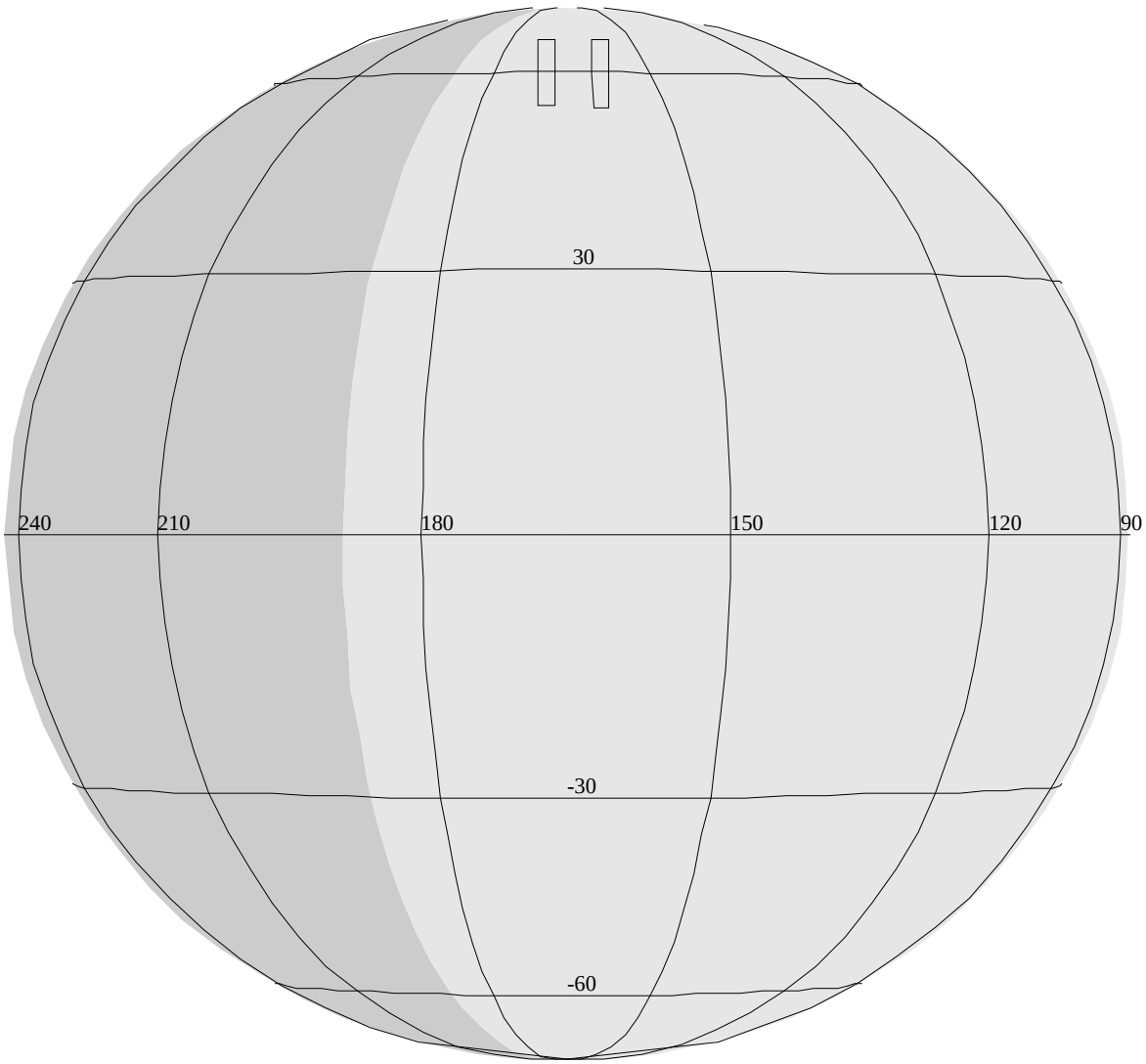
Data Returned

Design Detail

This is the 4th of 5 global observations to cover all longitudes. Continuous slew mosaic over lit surface in the longitude range 60 to 200 degrees. Scan platform slew rate is 0.03mrad/sec, to achieve Nyquist sampling rate. This observation consists of 4 swaths.

NIMS mode <LM>,	**Gain State <3>,**
Chopper <Ref>,	**Grating Start <0>,**
Grating Offset <4>,	**# wavelengths Record <204>,**
Record Format <LPU>,	**Playback Wavelengths <204>.**
Spatial resolution is <85km>,	**Phase <42 deg.>,**
Incident angle <10 to 120 deg.>,	**Emission angle <10 to 90 deg.>.**

Long Map (LM), Gain 3, Grating Start 0, LPU, C9GLM243K, C9GLM228K



165AP:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7268 TC= 1(60 170)
A= 364 pD= 0 SR=17.450 RA50=242.95 DEC50=-20.45 cone=104.66 clock= 99.00

C9JNAURMAP02

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JUFIXLON01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING: :UVS 1**

START:JEE 97-178/11:57:33.466 -CDS 1340:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JUFIXLON01 **DESCRIP:Fixed_Longitude_Map**

Ride Along with UVS	**ACTIVITY ID: C9JNAURMAP02+** **START TIME: 97-177/13:20:38.800**

Activity ID: Orbit C9 Target J Inst N OAPEL AURMAP SeqNo 02 +

Title	**Ride Along with UVS**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/26/97 Week 26**
Start	**JEE-CDS 00001342:00:0**	**97-177/13:20:38.800**	**JEE-000/22:36:54.666**
End	**JEE-CDS 00001310:00:0**	**97-177/13:53:00.133**	**JEE-000/22:04:33.333**
Duration	**00000032:00:0**	**000/00:32:21.333**	**000/00:32:21.333**

Top Label	**C9JNAURMAP02+**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**40**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Northern auroral map of dayside at 170 longitudes.
Observe color ratios for H2 band particle energies.

Data Returned

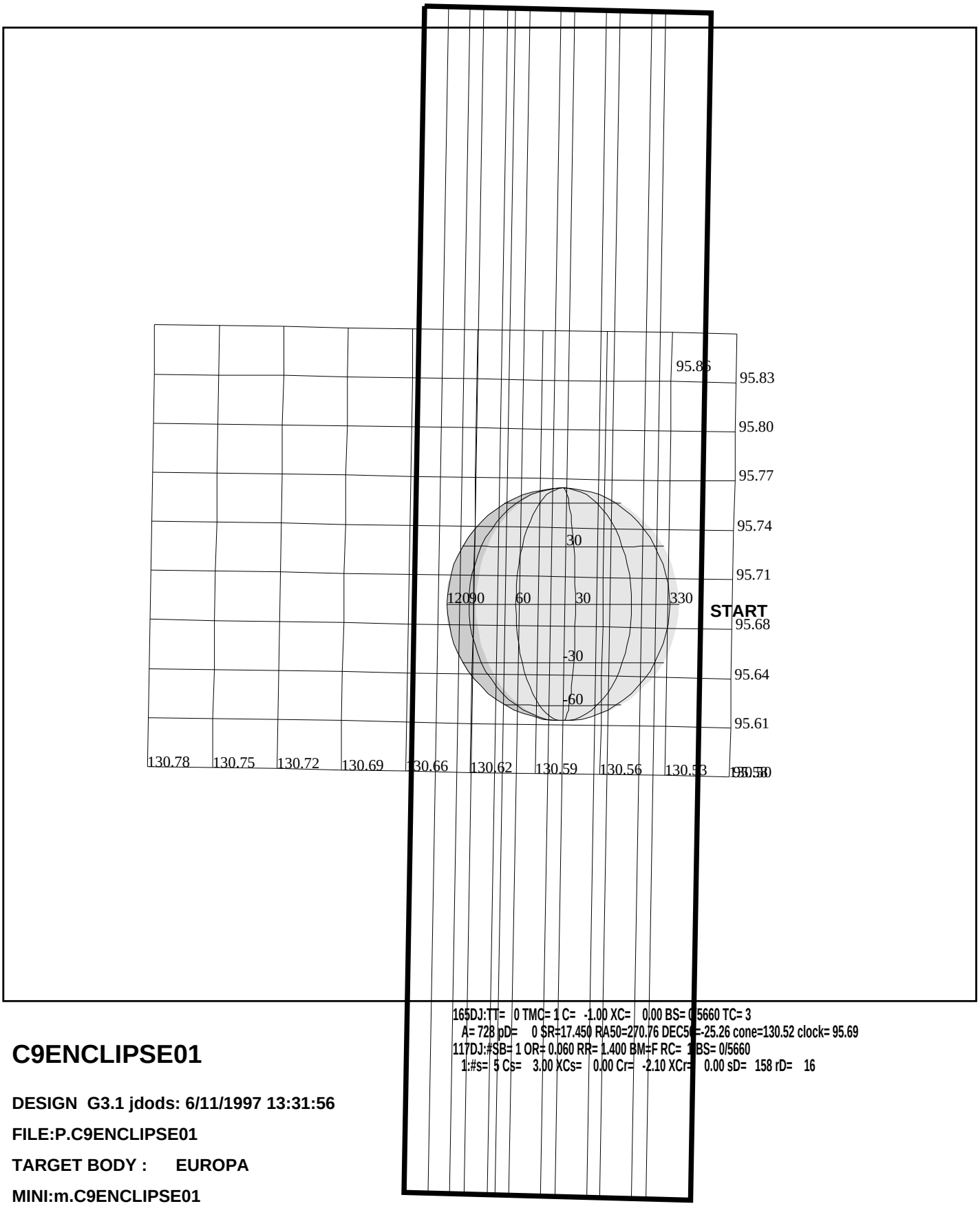
Design Detail

Ride-along with UVS (C9JUFIXLON01).
Select 3 RIMS of real-time data.

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

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

Galileo Activity Plan Form 06/09/97 10:29:40 rev 6/95



165DJ:TT= 0 TMC= 1 C= -1.00 XC= 0.00 BS= 0/5660 TC= 3
A= 728 pD= 0 SR=17.450 RA50=270.76 DEC5[illegible]=-25.26 cone=130.52 clock= 95.69
117DJ:#SB= 1 OR= 0.060 RR= 1.400 BM=F RC= 1 BS= 0/5660
1:#s= 5 Cs= 3.00 XCs= 0.00 Cr= -2.10 XCr= 0.00 sD= 158 rD= 16

C9ENCLIPSE01

DESIGN G3.1 jdods: 6/11/1997 13:31:56

FILE:P.C9ENCLIPSE01

TARGET BODY : EUROPA

MINI:m.C9ENCLIPSE01

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-178/10:10:22.800 -CDS 1078:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:C9ENCLIPSE01 **DESCRIP:Europa Eclipse part 1**

Europa Eclipse part 1	**ACTIVITY ID: C9ENCLIPSE01-** **START TIME: 97-177/15:55:20.800**

Activity ID: Orbit C9 Target E Inst N OAPEL CLIPSE SeqNo 01 -

Title	**Europa Eclipse part 1**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/A. OCAMPO**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/26/97 Week 26**
Start	**EEE-CDS 00001083:00:0**	**97-177/15:55:20.800**		**EEE-000/18:15:02.000**	
End	**EEE-CDS 00001072:00:0**	**97-177/16:06:28.134**		**EEE-000/18:03:54.666**	
Duration	**00000011:00:0**	**000/00:11:07.334**		**000/00:11:07.334**	

Top Label	**C9ENCLIPSE01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

This is the first of three Europa eclipse observations that will serve to determine a cooling curve to help assess the presence of solid state green house. This observation has been coordinated with PPR to obtain the cooler temperature.

Update: Since PPR cannot use the thermal filter, PPR will not participate in this observation. Also, out of three original observations, two observations were left due to restrictions of BTG.

This observation combines 9:06 in record (LPU mode) and 3:02 in real-time for a total duration of 12:08 minutes.

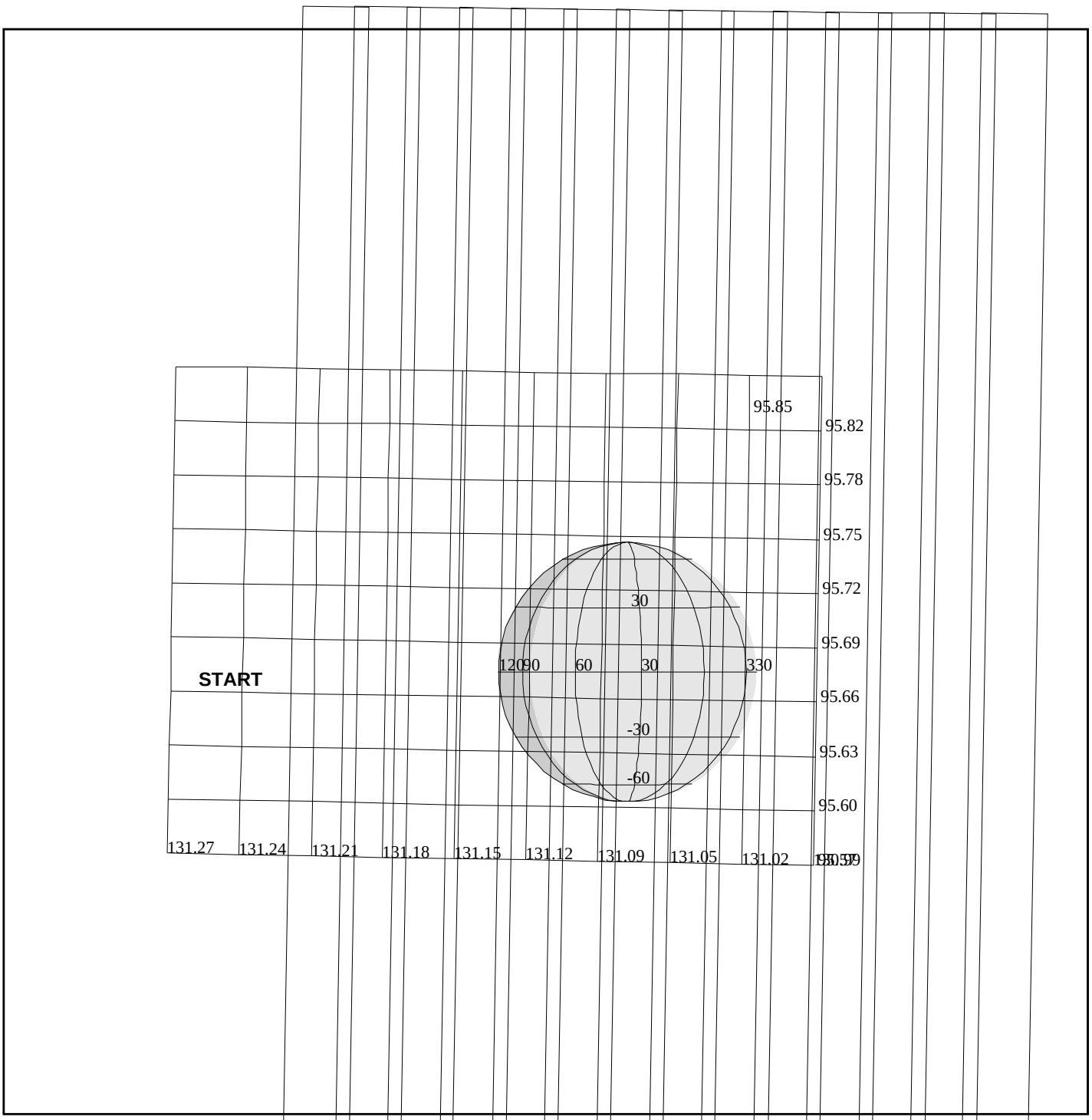
Data Returned

Design Detail

Instrument Mode = FM,
Gain State = 4,
Wavelength = 102,
TLM = LPU,

Multiple scans.

Full Map (FM), Gain 4, Grating Start 0, LPU, C9EFM126B, C9EFM126B



165ME:TT= 0 TMC= 1 C= 2.50 XC= 0.00 BS= 0/7298 TC= 3
A= 546 pD= 0 SR=17.450 RA50=271.53 DEC50=-25.24 cone=131.22 clock= 95.68
117ME:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7298
1:#s= 1 Cs= -3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

C9ENRTECLI01

DESIGN G3.1 jdods: 6/11/1997 13:33:13

FILE:P.C9ENRTECLI01

TARGET BODY : EUROPA

MINI:m.C9ENRTECLI01

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:EEE 97-178/10:10:22.800 -CDS 1069:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:C9ENRTECLI01 **DESCRIP:NIMS_Europa_Real_Time_Obs**

NIMS Europa Real-Time Eclipse Obs	ACTIVITY ID: C9ENRTECLI01- START TIME: 97-177/16:06:28.134

Activity ID: Orbit C9 Target E Inst N OAPEL RTECLI SeqNo 01 -

Title	NIMS Europa Real-Time Eclipse Obs	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 06/26/97 Week 26
Start	EEE-CDS 00001072:00:0	97-177/16:06:28.134	EEE-000/18:03:54.666
End	EEE-CDS 00001067:00:0	97-177/16:11:31.467	EEE-000/17:58:51.333
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label C9ENRTECLI01-
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 a continuation in real-time of C9ENCLIPSE01 to determine cooling curve for Europa.

Data Returned

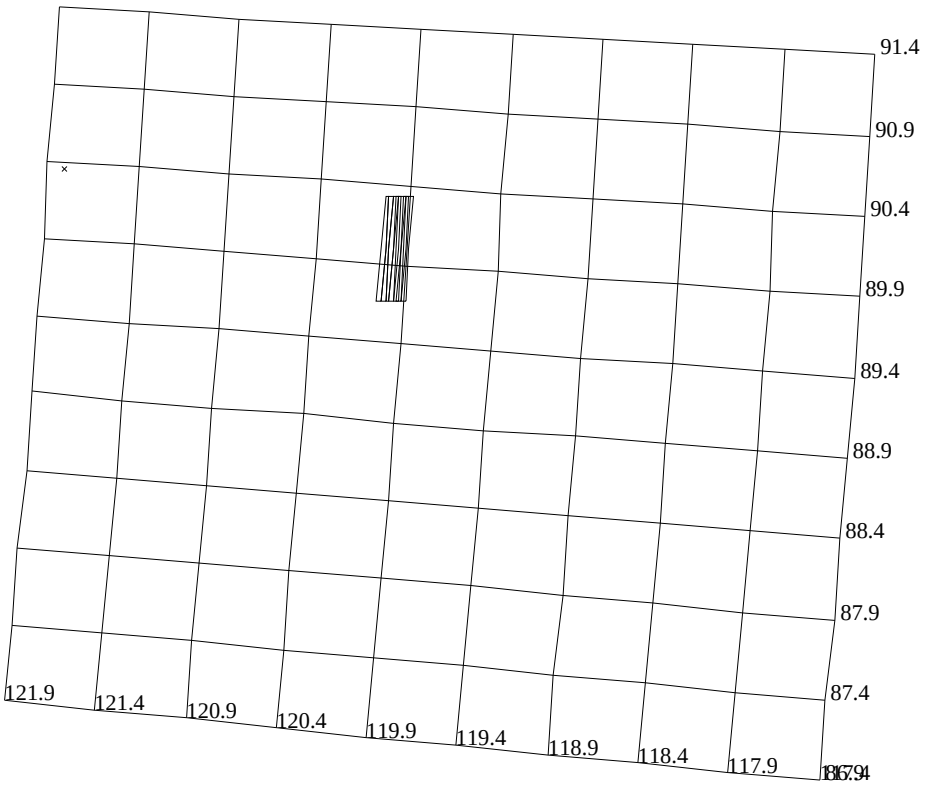
Design Detail

Mode = FM (204 wavelengths)
Telemetry Mode = Real-time
Gain State = 4.

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

Full Map (FM), Gain 4, Grating Start 0, R/T, RT204

Galileo Activity Plan Form 06/09/97 10:29:40 rev 6/95



165DK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2940 TC= 2(120 90)
A= 728 pD= 0 SR=17.450 RA50=259.01 DEC50=-30.17 cone=120.00 clock= 90.00
117DK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2940
1:#s= 1 Cs= -1.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9HNDARK__02

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:GEE 97-177/17:20:16.866 -CDS 39:00:0

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

OBSERVATION:C9HNDARK__02

DESCRIP:NIMS_DARK_OBSERVATION

NIMS Dark Observation	ACTIVITY ID: C9HNDARK__02- START TIME: 97-177/16:35:47.533

Activity ID: Orbit C9 Target H Inst N OAPEL DARK__ SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date 06/26/97 Week 26
Start	GEE-CDS 00000044:00:0	97-177/16:35:47.533	GEE-000/00:44:29.333
End	GEE-CDS 00000038:00:0	97-177/16:41:51.533	GEE-000/00:38:25.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	C9HNDARK__02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Collect Dark Values for calibration purposes.

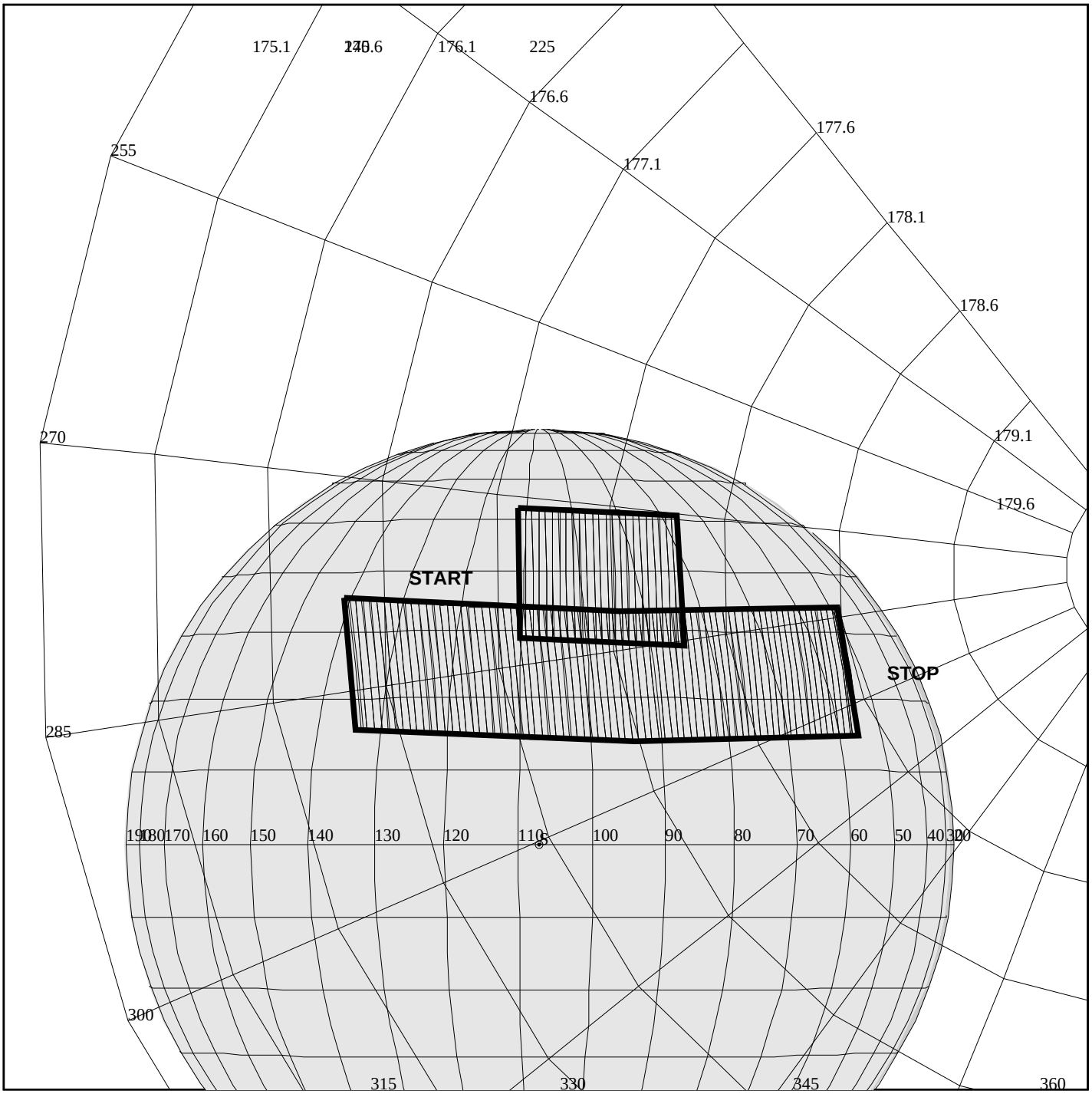
Data Returned

Design Detail

Slew to dark space and record 1 RIM of dark values.
Long Map
Gain State 2

Long Map (LM), Gain 2, Grating Start 0, LPU, C9DRK252, C9DRK252

Galileo Activity Plan Form 06/09/97 10:29:41 rev 6/95



165DL:TT= 0 TMC= 1 C= 0.00 XC= -3.00 BS= 0/5124 TC= 1(33 110)
A= 728 pD= 5278 SR=17.450 RA50=325.11 DEC50=-13.43 cone=177.20 clock=276.80
117DL:#SB= 2 OR= 0.030 RR= 9.500 BM=F RC= 1 BS= 0/5124
1:#s= 1 Cs= 12.10 XCs= 0.30 Cr= 0.00 XCr= 0.00 sD= 1234 rD= 2
2:#s= 1 Cs= 38.90 XCs= -4.20 Cr= -25.00 XCr= 6.00 sD= 4004 rD= 40

C9GNDRKLIT01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9GNDRKLIT01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:GEE 97-177/17:20:16.866 -CDS 27:00:0 **BODY PLOT TIME:TARGET-TIME D= 5278 S= 0.800**

OBSERVATION:C9GNDRKLIT01 **DESCRIP:Dark endmember lead hem.**

Dark and Light transition — **ACTIVITY ID: C9GNDRKLIT01-** / **START TIME: 97-177/16:47:55.533**

Activity ID: Orbit C9 Target G Inst N OAPEL DRKLIT SeqNo 01 -

Title	**Dark and Light transition**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/J. HUI**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/26/97 Week 26**
Start	**GEE-CDS**	**00000032:00:0**	**97-177/16:47:55.533**		**GEE-000/00:32:21.333**
End	**GEE+CDS**	**00000002:00:0**	**97-177/17:22:18.199**		**GEE+000/00:02:01.333**
Duration		**00000034:00:0**	**000/00:34:22.666**		**000/00:34:22.666**

Top Label	**C9GNDRKLIT01-**				
Bottom Label	**NIMS Ganymede**				
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

To study dark and light material and its sharp transition from one type to the other near Galileo Regio. Dark endmembers of the leading hemisphere will also be studied.

Data Returned

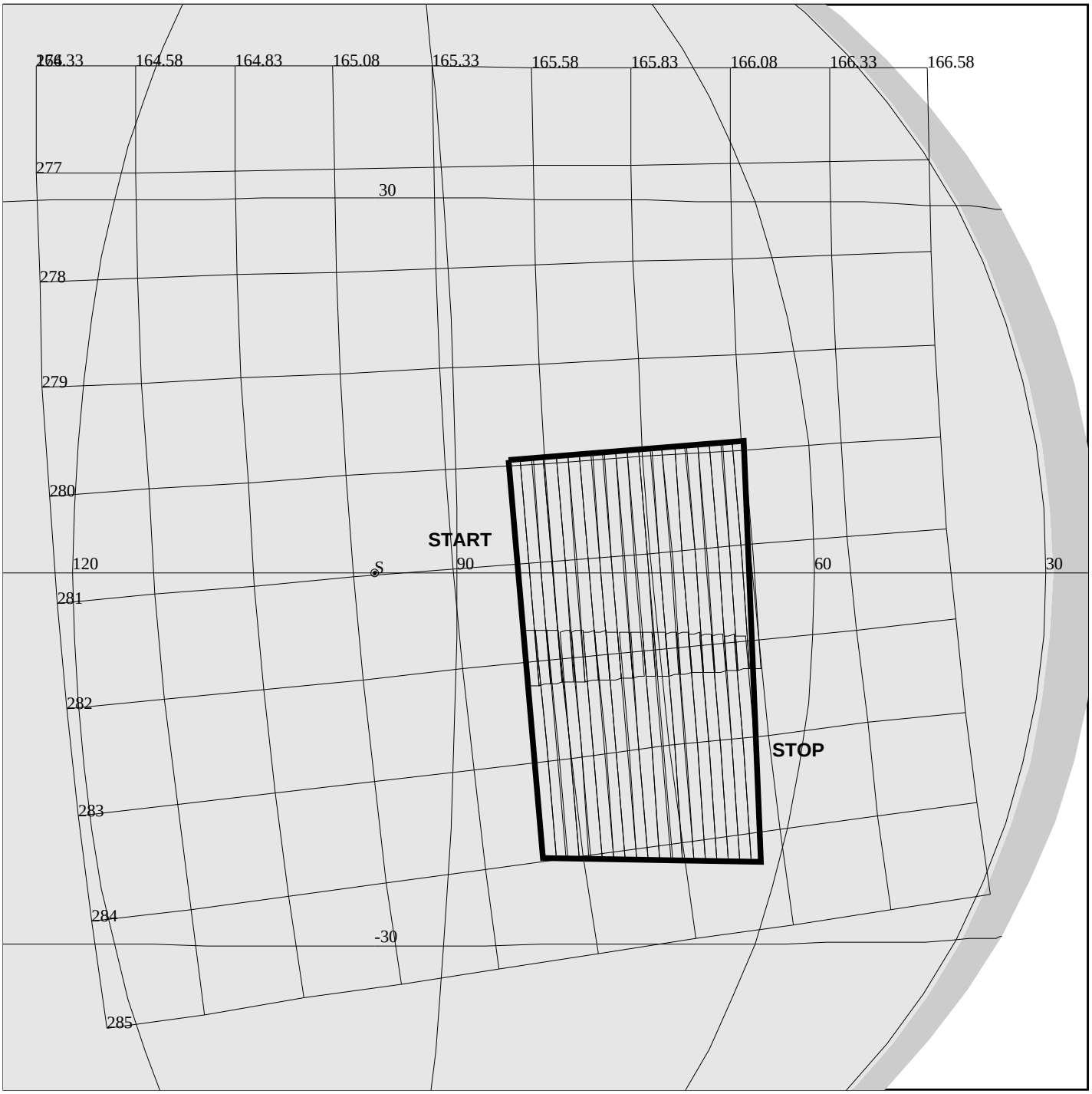
Design Detail

Target to lat = +20 degrees and long = 110 degrees and slew in decreasing longitude for a CSMOS duration of 22 RIMS. Scan platform slew rate is 0.03mrad/sec, to achieve Nyquist sampling rate.

NIMS mode <LM>,	**Gain State <3>,**
Chopper <Ref>,	**Grating Start <0>,**
Grating Offset <4>,	**# wavelengths Record <204>,**
Record Format <LPU>,	**Playback Wavelengths <204>.**
Spatial resolution is <40km>,	**Phase <16 deg.>,**
Incident angle <26 to 36 deg.>,	**Emission angle <27 deg.>.**

Long Map (LM), Gain 3, Grating Start 0, LPU, C9GLM243K, C9GLM228K

Galileo Activity Plan Form — **06/09/97 10:29:41 rev 6/95**



165DN:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1312 TC= 1(0.0 85.0)
A= 728 pD= 2034 SR=17.450 RA50=336.57 DEC50=-10.08 cone=165.50 clock=281.09
117DN:#SB= 1 OR= 0.030 RR= 6.000 BM=F RC= 1 BS= 0/1312
1:#s= 2 Cs= 10.00 XCs= 0.00 Cr= -10.00 XCr= 7.50 sD= 1006 rD= 26

C9GNBRILED01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9GNBRILED01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:GEE 97-177/17:20:16.866 +CDS 07:00:0 **BODY PLOT TIME:TARGET-TIME D= 2034 S= 1.400**

OBSERVATION:C9GNBRILED01 **DESCRIP:Bright endmember lead hem.**

Bright endmember lead hemisphere — **ACTIVITY ID: C9GNBRILED01-** / **START TIME: 97-177/17:22:18.199**

Activity ID: Orbit C9 Target G Inst N OAPEL BRILED SeqNo 01 -

Title	**Bright endmember lead hemisphere**	**Instrument**	**NIMS**
Requestor	**NIMS-SWG/J. HUI**	**Team NIMS**	**Working Group SWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/26/97**	**Week 26**
Start	**GEE+CDS 00000002:00:0**	**97-177/17:22:18.199**		**GEE+000/00:02:01.333**	
End	**GEE+CDS 00000019:00:0**	**97-177/17:39:29.532**		**GEE+000/00:19:12.666**	
Duration	**00000017:00:0**	**000/00:17:11.333**		**000/00:17:11.333**	

Top Label	**C9GNBRILED01-**				
Bottom Label	**NIMS Ganymede**				
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

To study BRIGHT endmember in the leading hemisphere. Endmembers are required for unmixing of global maps. Highest spectra resolution are needed to identify narrow mineralogic features or those associated with ices other than water.

Data Returned

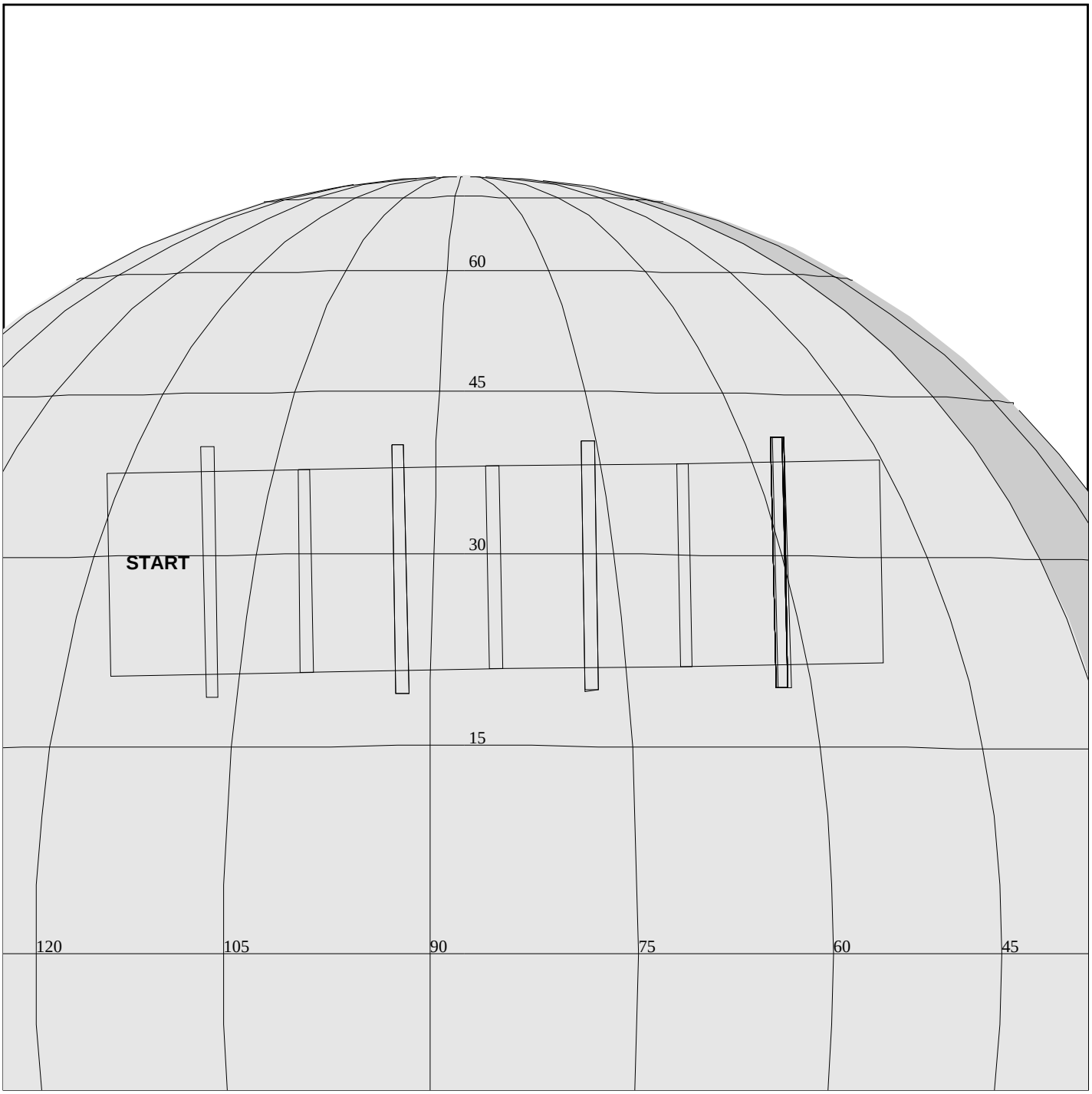
Design Detail

One continuous slew over the area around lat=0 to -13 and lon=84 to 65 deg. Sc platform slew rate is 0.03mrad/sec, to achieve Nyquist sampling rate. Spatial

NIMS mode <LM>,	**Gain State <3>,**
Chopper <Ref>,	**Grating Start <0>,**
Grating Offset <4>,	**# wavelengths Record <204>,**
Record Format <LPU>,	**Playback Wavelengths <204>.**
Resolution is <40km>,	**Phase <24 deg.>,**
Incident angle <32 to 53 deg.>,	**Emission angle <10 to 30 deg.>.**

Long Map (LM), Gain 3, Grating Start 0, LPU, C9GLM243K, C9GLM228K

Galileo Activity Plan Form **06/09/97 10:29:41 rev 6/95**



165IQ:TT= 0 TMC= 1 C= -13.85 XC= 0.00 BS= 0/6408 TC= 1(29 80)
A= 728 pD= 364 SR=17.450 RA50=346.13 DEC50= -4.85 cone=154.76 clock=276.93
118IQ:#SB= 1 Cs= 7.62 XCs= 0.00 TPP= 26 SR= 3.000 RR= 3.000 BM=F RC= 1 BS= 3/6408
1:#s= 4 #p= 1 Cr= 0.00 XCr= 0.00

C9GNRTSULC01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9GSSULCUS01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:

START:GEE 97-177/17:20:16.866 +CDS 35:00:0

BODY PLOT TIME:TARGET-TIME D= 364 S= 1.500

OBSERVATION:C9GSSULCUS01

DESCRIP:PERRINE/GALILEO REGIO MOSAIC

Perrine/Galileo Regio Regional	ACTIVITY ID: C9GNRTSULC01+ START TIME: 97-177/17:55:00.199

Activity ID: Orbit C9 Target G Inst N OAPEL RTSULC SeqNo 01 +

Title	Perrine/Galileo Regio Regional			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	06/26/97 Week 26
Start	GEE+CDS 00000034:31:0	97-177/17:55:00.199		GEE+000/00:34:43.333	
End	GEE+CDS 00000036:29:0	97-177/17:57:00.199		GEE+000/00:36:43.333	
Duration	00000001:89:0	000/00:02:00.000		000/00:02:00.000	

Top Label	C9GNRTSULC01+				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	40	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Joint science observation with SSI to study dark terrain of Perrine and Galileo Regios. Features are smooth dark materials and palimpsests.

Data Returned

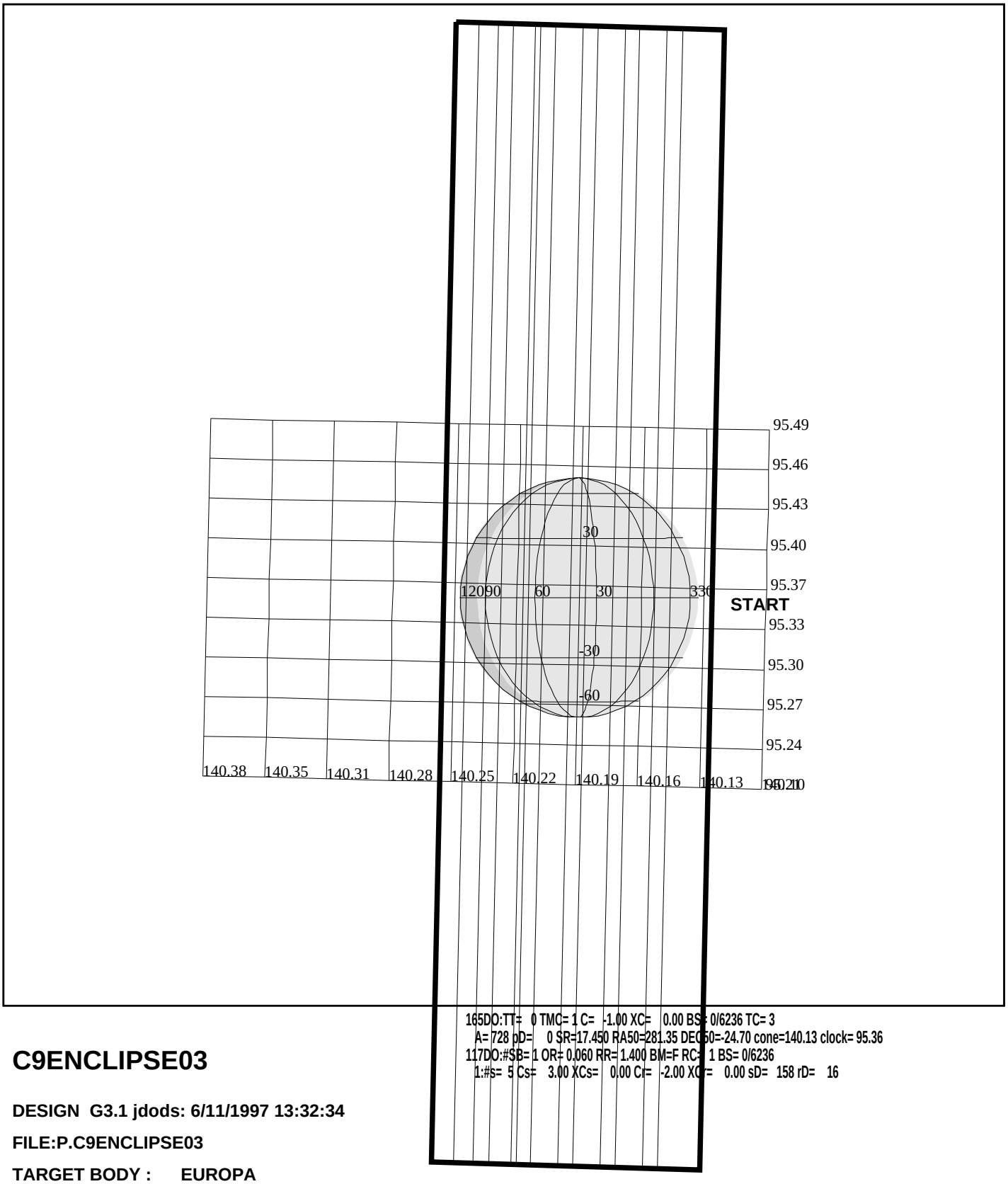
Design Detail

Ride along with SSI (C9GSSULCUS01)
Real-time observation.
Select Real-time at target time.
Real-time duration is 3 RIMS (3.26% X 3 = 9.78% of MUB).
NIMS mode = LM.
Wavelength = 408.
Use mirror block (center mirror).
Gain state = 3.

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

Long Map (LM), Gain 3, Grating Start 0, R/T, RT408

Galileo Activity Plan Form 06/09/97 10:29:41 rev 6/95



C9ENCLIPSE03

DESIGN G3.1 jdods: 6/11/1997 13:32:34

FILE:P.C9ENCLIPSE03

TARGET BODY : EUROPA

MINI:m.C9ENCLIPSE03

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:EEE 97-178/10:10:22.800 -CDS 910:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:C9ENCLIPSE03 **DESCRIP:Europa Eclipse part 3**

Europa Eclipse part 3	ACTIVITY ID: C9ENCLIPSE03- START TIME: 97-177/18:45:12.800

Activity ID: Orbit C9 Target E Inst N OAPEL CLIPSE SeqNo 03 -

Title	Europa Eclipse part 3			Instrument	NIMS
Requestor	NIMS-SWG/A. Ocampo	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	06/26/97 Week 26
Start	EEE-CDS 00000915:00:0	97-177/18:45:12.800		EEE-000/15:25:10.000	
End	EEE-CDS 00000905:00:0	97-177/18:55:19.467		EEE-000/15:15:03.333	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label C9ENCLIPSE03-
Bottom Label

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

Observation Objective

This is the third of three Europa eclipse observations that will serve to determine a warming curve to help assess the presence of solid state green house. This observation has been coordinated with PPR to obtain the cooler temperature.

Update: PPR will not participate in this observation.
Europa real-time observation will be linked to this observation to enhance signal-to-noise-ratio (SNR).

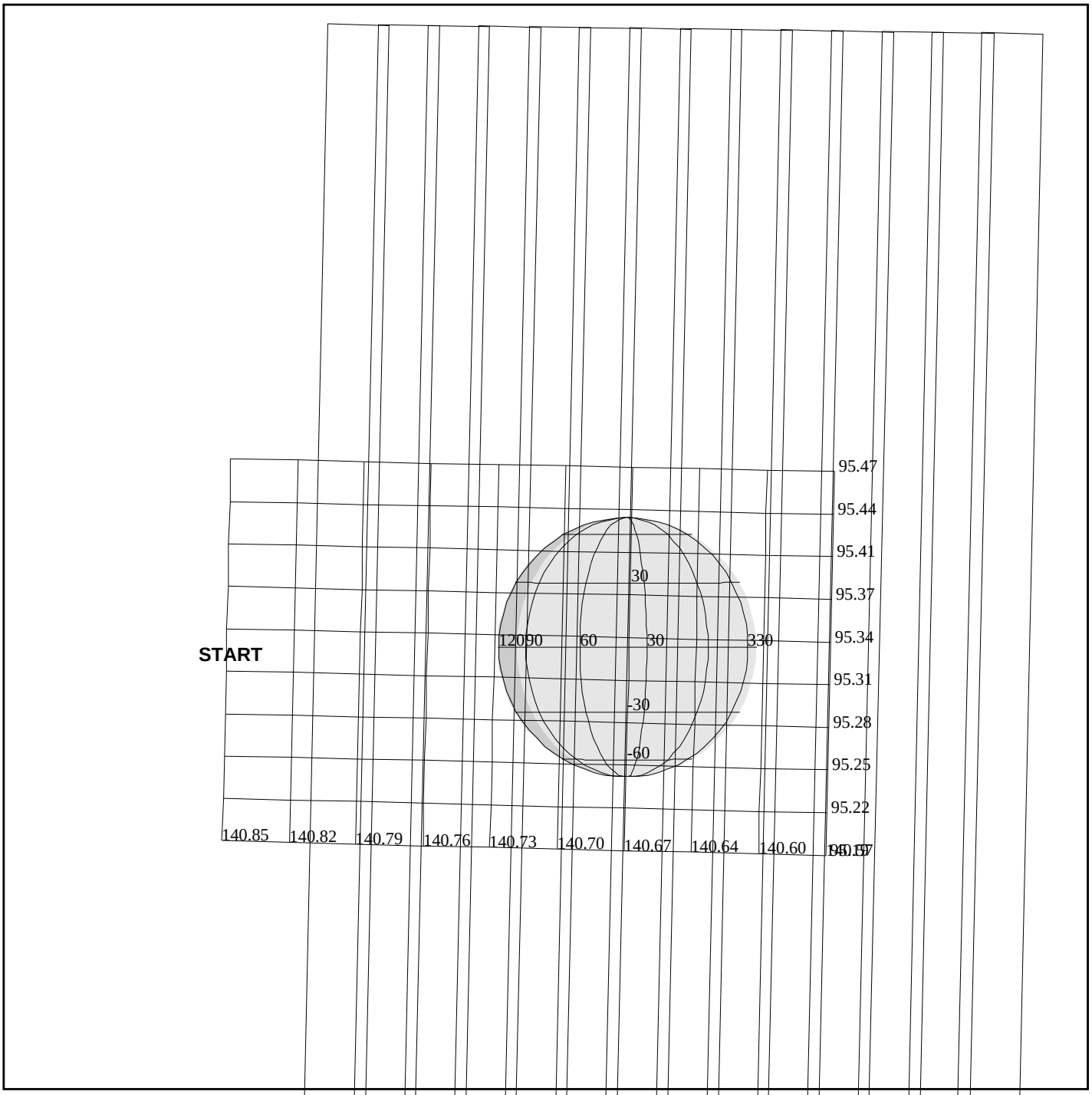
This observation combines 9:06 in record (LPU mode) and 3:02 in real-time fo duration of 12:08 minutes.

Data Returned

Design Detail

Instrument Mode = FM,
Wavelength = 102,
Gain State = 4,
TLM = LPU
one scan, repeated four times.

Full Map (FM), Gain 4, Grating Start 0, LPU, C9EFM126B, C9EFM126B



C9ENRTECLI03

DESIGN G3.1 jdods: 6/11/1997 13:33:45

FILE:P.C9ENRTECLI03

TARGET BODY : EUROPA

MINI:m.C9ENRTECLI03

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:EEE 97-178/10:10:22.800 -CDS 902:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:C9ENRTECLI03 **DESCRIP:NIMS_Europa_Real_Time_Obs**

NIMS Europa Real-Time Eclipse Obs	ACTIVITY ID: C9ENRTECLI03- START TIME: 97-177/18:55:19.467

Activity ID: Orbit C9 Target E Inst N OAPEL RTECLI SeqNo 03 -

Title	NIMS Europa Real-Time Eclipse Obs	Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 06/26/97 Week 26
Start	EEE-CDS 00000905:00:0	97-177/18:55:19.467	EEE-000/15:15:03.333
End	EEE-CDS 00000899:00:0	97-177/19:01:23.467	EEE-000/15:08:59.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	C9ENRTECLI03-				
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 a continuation in real-time of C9ENCLIPSE03 to determine warming curve for Europa.

Data Returned

Design Detail

Mode = FM (204 wavelengths)
Telemetry Mode = Real-time
Gain State = 4.

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

Full Map (FM), Gain 3, Grating Start 0, R/T, RT204

Galileo Activity Plan Form 06/09/97 10:29:41 rev 6/95

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NIMS Real-Time Software Reload — **ACTIVITY ID: C9NNRELOAD02-** / **START TIME: 97-177/20:07:06.800**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 02 -

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

Time System	**CDS**	**Load ID**	**Calendar Date 06/26/97 Week 26**
Start	**JEE-CDS 00000940:00:0**	**97-177/20:07:06.800**	**JEE-000/15:50:26.666**
End	**JEE-CDS 00000930:00:0**	**97-177/20:17:13.466**	**JEE-000/15:40:20.000**
Duration	**00000010:00:0**	**000/00:10:06.666**	**000/00:10:06.666**

Top Label	**C9NNRELOAD02-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**100**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

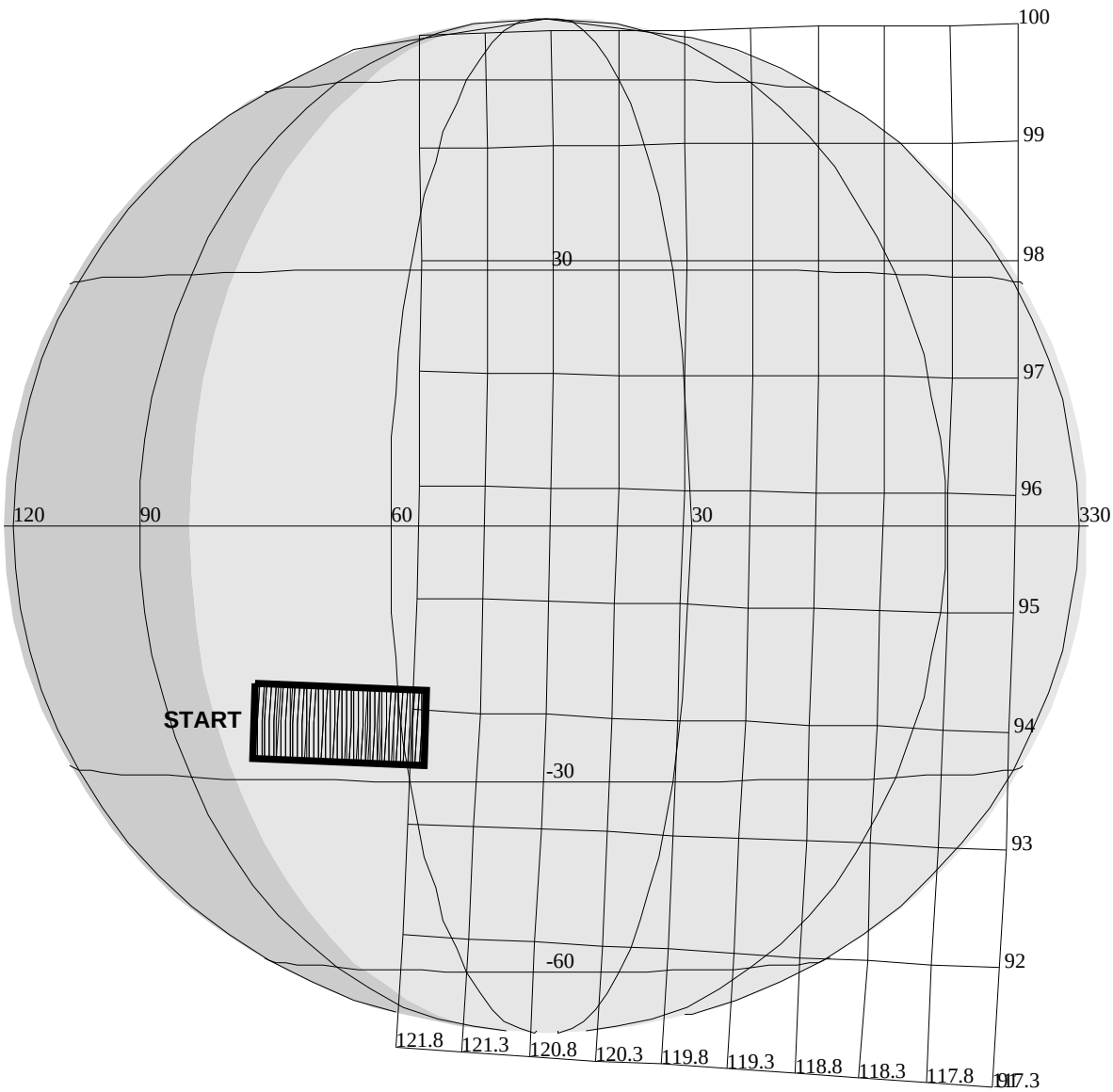
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

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.



165DP:TT= 0 TMC= 1 C= 9.00 XC= 0.00 BS= 0/3162 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50=262.44 DEC50=-26.89 cone=123.02 clock= 93.85
117DP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3162
1:#s= 1 Cs= -21.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS05101

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS05101

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 -CDS 923:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS05101 **DESCRIP:JUP_GREAT_RED_SPOT_51_DEG_01**

Jupiter Great Red Spot 51 degrees prt 1	ACTIVITY ID: C9JNGRS05101- START TIME: 97-177/20:19:14.800

Activity ID: Orbit C9 Target J Inst N OAPEL GRS051 SeqNo 01 -

Title	Jupiter Great Red Spot 51 degrees prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/26/97 Week 26
Start	JEE-CDS 00000928:00:0	97-177/20:19:14.800		JEE-000/15:38:18.666	
End	JEE-CDS 00000919:00:0	97-177/20:28:20.800		JEE-000/15:29:12.666	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	C9JNGRS05101-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the first of three observations obtained on a rotation with phase angle approximately 51 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near the morning terminator, assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III)

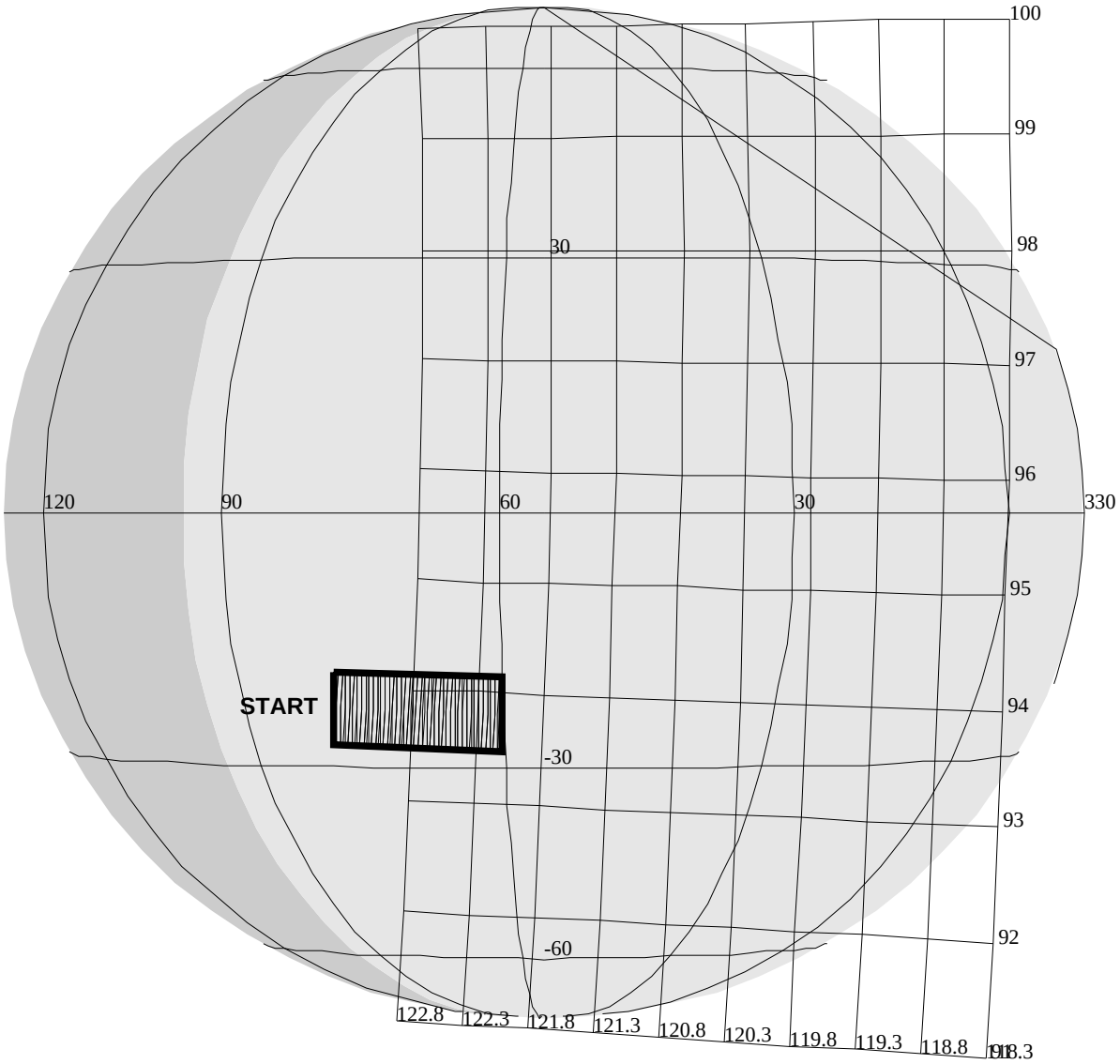
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.96 million KM, NIMS IFOV (NIMSel) = 480 KM; 2 X 1 mosaic covers 19200 X 9600 KM. About 200 seconds of scanning, accumulating 0.0511 MBTG in 4 colors, and using 0.00672 tracks. Four rims reserved for targetting.

Note (5/6/97): GRS center longitude now predicted to be at 62 degrees west longitude. This OAPEL images 57-77 degrees longitude, i.e., 5 degrees to the East and 15 degrees to the West of the GRS center.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT25A



165DQ:TT= 0 TMC= 1 C= 11.50 XC= 0.00 BS= 0/6802 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50=262.83 DEC50=-26.92 cone=123.37 clock= 93.81
117DQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6802
1:#s= 1 Cs= -21.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS05102

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS05102

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 -CDS 903:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS05102 **DESCRIP:JUP_GREAT_RED_SPOT_51_DEG_02**

Jupiter Great Red Spot 51 degrees prt 2 **ACTIVITY ID: C9JNGRS05102-**
START TIME: 97-177/20:39:28.133

Activity ID: Orbit C9 Target J Inst N OAPEL GRS051 SeqNo 02 -

Title	**Jupiter Great Red Spot 51 degrees prt 2**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group** **AWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/26/97 Week 26**
Start	**JEE-CDS 00000908:00:0**	**97-177/20:39:28.133**	**JEE-000/15:18:05.333**
End	**JEE-CDS 00000899:00:0**	**97-177/20:48:34.133**	**JEE-000/15:08:59.333**
Duration	**00000009:00:0**	**000/00:09:06.000**	**000/00:09:06.000**

Top Label **C9JNGRS05102-**
Bottom Label

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

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the second of three observations obtained on a rotation with phase angle approximately 51 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near 17 degrees relative longitude assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III)

Data Returned

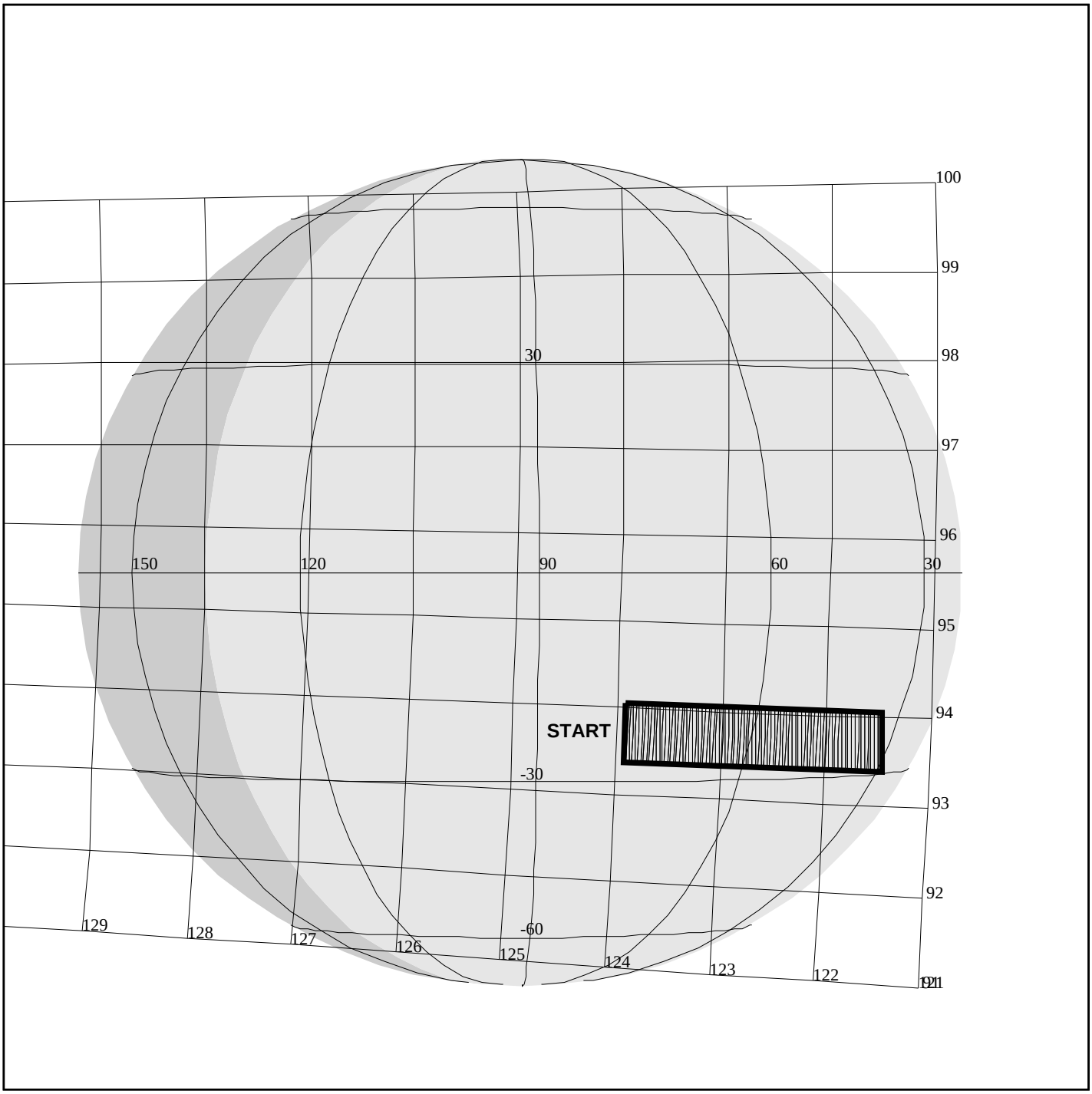
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.94 million KM, NIMS IFOV (NIMSel) = 470 KM; 2 X 1 mosaic covers 18800 X 9400 KM. About 200 seconds of scanning, accumulating 0.0511 MBTG in 4 colors, and using 0.00672 tracks. Four rims reserved for targetting.

Note (5/6/97): GRS center longitude now predicted to be at 62 degrees west longitude. This OAPEL observes 60-78 degrees longitude, i.e., the Western portion of GRS.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT25A

Galileo Activity Plan Form **06/09/97 10:29:41 rev 6/95**



165DR:TT= 0 TMC= 1 C= 11.50 XC= 0.00 BS= 0/8632 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50=263.46 DEC50=-26.99 cone=123.93 clock= 93.72
117DR:#SB= 1 OR= 0.200 RR=12.000 BM=F RC= 1 BS= 0/8632
1:#s= 1 Cs= -41.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS05103

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS05103

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-178/11:57:33.466 -CDS 838:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS05103 **DESCRIP:JUP_GREAT_RED_SPOT_51_DEG_03**

Jupiter Great Red Spot 51 degrees prt 3 ACTIVITY ID: C9JNGRS05103-
START TIME: 97-177/21:45:11.466

Activity ID: Orbit C9 Target J Inst N OAPEL GRS051 SeqNo 03 -

Title	Jupiter Great Red Spot 51 degrees prt 3 Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	Calendar Date 06/26/97 Week 26
Start	JEE-CDS 00000843:00:0	97-177/21:45:11.466	JEE-000/14:12:22.000
End	JEE-CDS 00000834:00:0	97-177/21:54:17.466	JEE-000/14:03:16.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	C9JNGRS05103-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the third of three observations obtained on a rotation with phase angle approximately 51 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near minimum airmass longitude assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III)

Data Returned

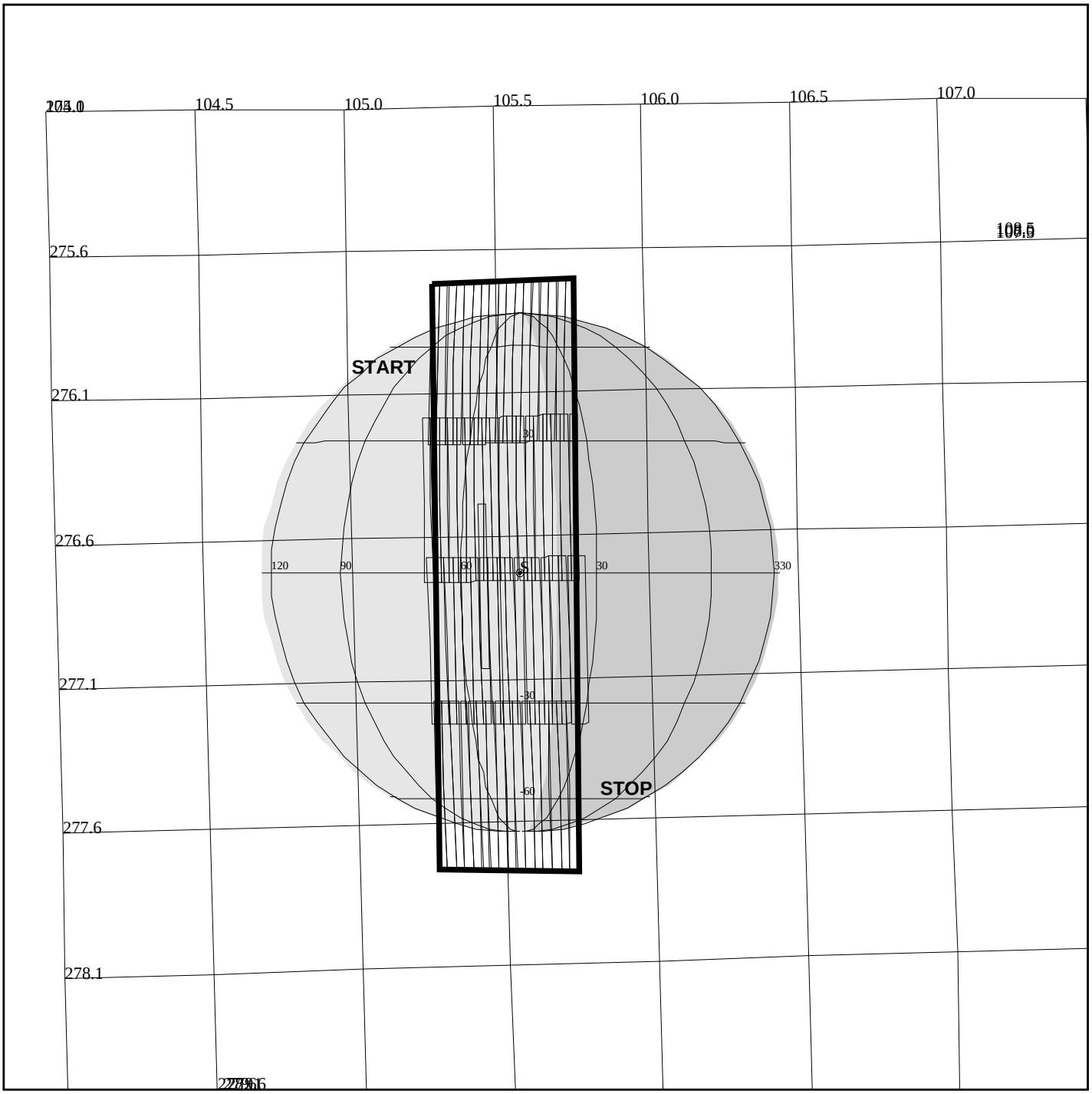
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.92 million KM, NIMS IFOV (NIMSel) = 460 KM;
2 X 1 mosaic covers 18400 X 9200 KM. About 200 seconds of scanning, accumulating 0.0511 MBTG in 4 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

Note (5/6/97): GRS center longitude now predicted to be at 62 degrees west longitude. This OAPEL observes 58-78 degrees longitude, i.e., the Western half of GRS.
NOTE 5/15/97: Scan rate increased to encompass 4 X 1 area, in order to acquire the eastern side of the GRS including some of the interaction between the colliding small white oval and GRS.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT25A

Galileo Activity Plan Form 06/09/97 10:29:41 rev 6/95



165DS:TT= 0 TMC= 1 C= -5.00 XC= -13.00 BS= 0/0088 TC= 3
A= 728 pD= 3620 SR=17.450 RA50= 29.94 DEC50= 14.78 cone=107.12 clock=276.03
117DS:#SB= 4 OR= 0.030 RR= 4.600 BM=F RC= 1 BS= 0/0088
1:#s= 1 Cs= 8.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 854 rD= 2
2:#s= 1 Cs= 9.50 XCs= 0.00 Cr= -9.00 XCr= 8.50 sD= 956 rD= 16
3:#s= 1 Cs= 9.50 XCs= 0.00 Cr= -9.50 XCr= 8.50 sD= 956 rD= 16
4:#s= 1 Cs= 8.00 XCs= 0.00 Cr= -9.00 XCr= 8.50 sD= 806 rD= 16

C9GNGLOBAL02

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9GNGLOBAL02

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:GEE 97-177/17:20:16.866 +CDS 275:00:0

BODY PLOT TIME:END-TIME D= 3620 S= 0.500

OBSERVATION:C9GNGLOBAL02

DESCRIP:Ganymede Global Map 02

Global Surface Map	**ACTIVITY ID: C9GNGLOBAL02-** **START TIME: 97-177/21:54:17.532**

Activity ID: Orbit C9 Target G Inst N OAPEL GLOBAL SeqNo 02 -

Title	**Global Surface Map**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/J. HUI**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/26/97 Week 26**
Start	**GEE+CDS 00000271:00:0**	**97-177/21:54:17.532**	**GEE+000/04:34:00.666**
End	**GEE+CDS 00000296:00:0**	**97-177/22:19:34.199**	**GEE+000/04:59:17.333**
Duration	**00000025:00:0**	**000/00:25:16.667**	**000/00:25:16.667**

Top Label	**C9GNGLOBAL02-**				
Bottom Label	**NIMS Ganymede**				
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

To obtain high spectral resolution map of the Ganymede’s surface. This observation investigates the surface mineralogy and distribution of compositional units in a global context. The global map can be used to compare Ganymede to the other satellites to look for similarities and differences. The longitude coverage is 37 to 65 degrees.

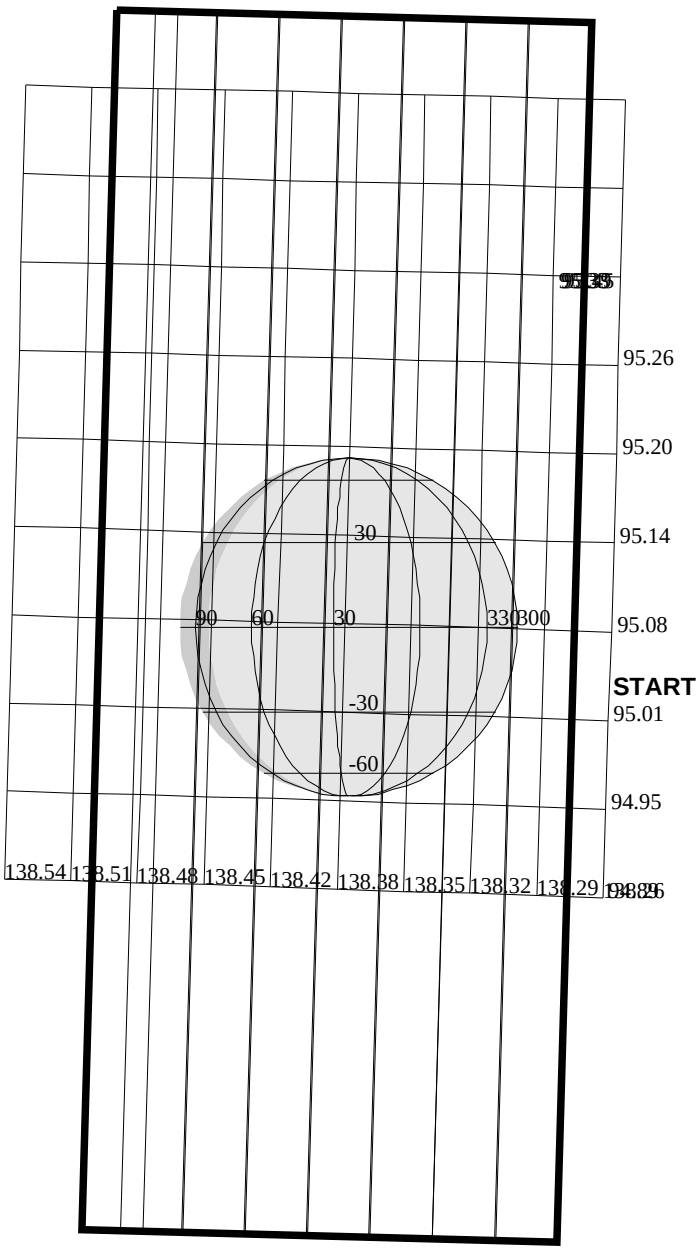
Data Returned

Design Detail

This is the 5th of 5 global observations to cover all longitudes. Continuous slew mosaic over lit surface in the longitude range 37 to 65 degrees. Scan platform slew rate is 0.03mrad/sec, to achieve Nyquist sampling rate. This observation consists of 4 swaths.

NIMS mode <LM>,	**Gain State <3>,**
Chopper <Ref>,	**Grating Start <0>,**
Grating Offset <4>,	**# wavelengths Record <204>,**
Record Format <LPU>,	**Playback Wavelengths <204>.**
Spatial resolution is <82km>,	**Phase <80 deg.>,**
Incident angle <66 to 95 deg.>,	**Emission angle <15 to 85 deg.>.**

Long Map (LM), Gain 4, Grating Start 0, LPU, C9GLM243K, C9GLM228K



165DT:TT= 0 TMC= 1 C= -1.70 XC= 0.00 BS= 0/9188 TC= 3
A= 728 pD= 1568 SR=17.450 RA50=279.35 DEC50=-25.10 cone=138.29 clock= 95.07
117DT:#SB= 1 OR= 0.100 RR= 1.800 BM=F RC= 1 BS= 0/9188
1:#s= 8 Cs= 3.50 XCs= 0.00 Cr= -3.50 XCr= 0.00 sD= 182 rD= 16

C9INCOOLCV01

DESIGN G3.1 jdods: 6/11/1997 13:30: 8

FILE:P.C9INCOOLCV01

TARGET BODY : IO

MINI:m.C9INCOOLCV01

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 97-179/02:31:09.466 -CDS 1644:00:0

BODY PLOT TIME:TARGET-TIME D= 1568 S= 0.500

OBSERVATION:C9INCOOLCV01

DESCRIP:NIMS_Io_Eclipse_Obs

NIMS Io Eclipse Observation (ingress)			**ACTIVITY ID:**	**C9INCOOLCV01-**	
			START TIME:	**97-177/22:43:50.133**	
Activity ID:	**Orbit C9**	**Target I**	**Inst N**	**OAPEL COOLCV**	**SeqNo 01 -**
Title	**NIMS Io Eclipse Observation (ingress)**		**Instrument**		**NIMS**
Requestor	**NIMS-SWG/R. Lopes**		**Team**	**NIMS**	**Working Group**	**SWG**
Time System	**CDS**	**Load ID**		**Calendar Date**	**06/26/97**	**Week**	**26**
Start	**IEE-CDS**	**00001649:00:0**	**97-177/22:43:50.133**		**IEE-001/03:47:19.333**
End	**IEE-CDS**	**00001635:00:0**	**97-177/22:57:59.466**		**IEE-001/03:33:10.000**
Duration		**00000014:00:0**	**000/00:14:09.333**		**000/00:14:09.333**
Top Label	**C9INCOOLCV01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

To investigate cooling of hot spots on Io’s surface as Io is eclipsed by Jupiter. Eclipse entry time is 97-177/22:51:06.

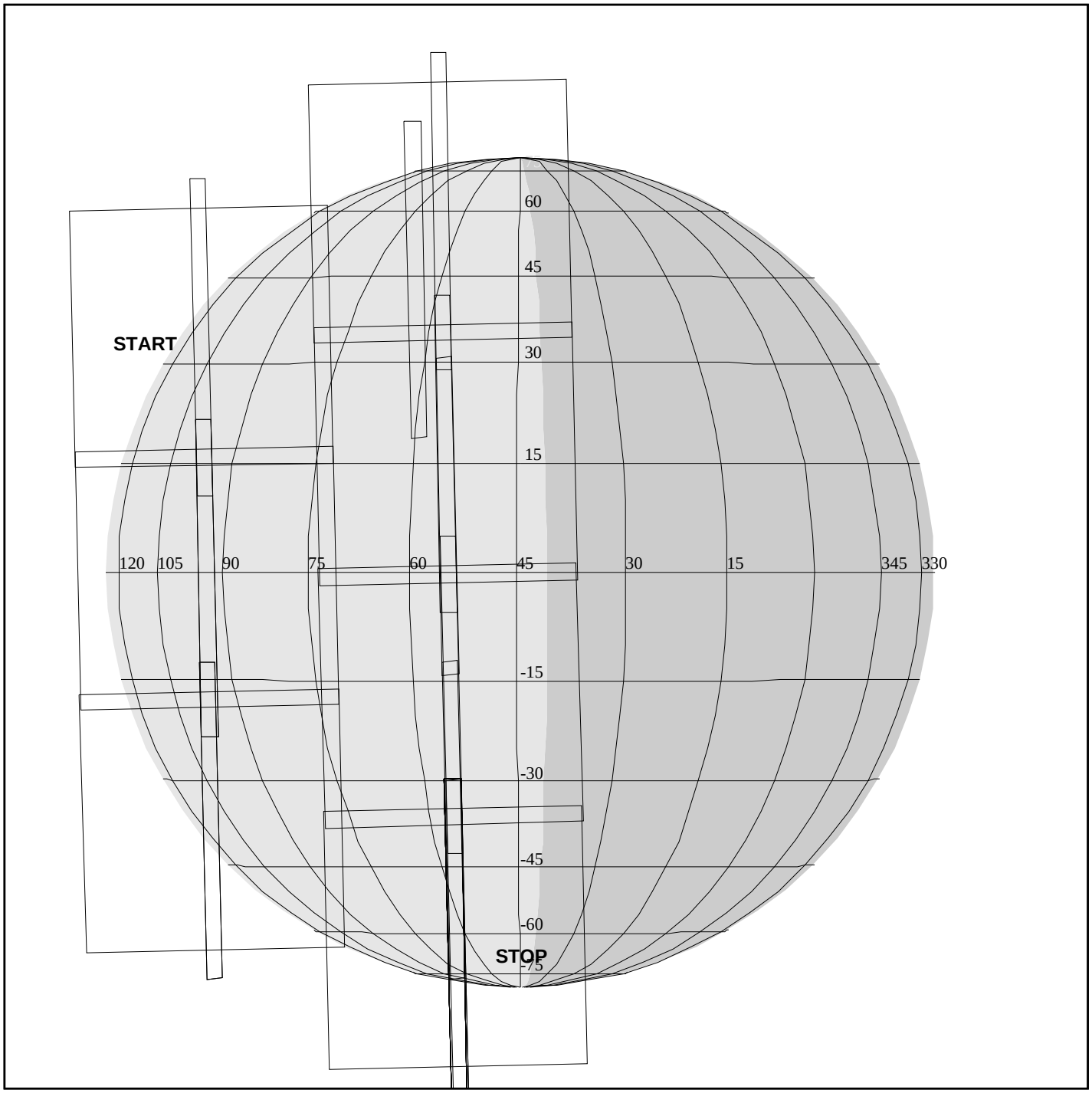
Data Returned

Design Detail

Instrument Mode = SM Wavelengths = 102

Short Map (SM), Gain 2, Grating Start 1, LPU, C9B_ISM68A, C9B_ISM68A

Galileo Activity Plan Form **06/09/97 10:29:42 rev 6/95**



165IR:TT= 0 TMC= 1 C= -0.35 XC= -7.43 BS= 0/4830 TC= 1(0 91)
A= 728 pD= 364 SR=17.450 RA50= 36.50 DEC50= 16.83 cone=100.48 clock=276.22
118IR:#SB= 2 Cs= 0.00 XCs= 7.62 TPP= 26 SR= 3.000 RR= 9.000 BM=F RC= 1 BS= 3/4830
1:#s= 3 #p= 1 Cr= 0.00 XCr= 14.50
2:#s= 4 #p= 1 Cr= 7.62 XCr= -19.01

C9GNRTGLOB01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9GSGLOBAL01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING: NIMS 2

START:GEE 97-177/17:20:16.866 +CDS 356:00:0

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

OBSERVATION:C9GSGLOBAL01

DESCRIP:GANYMEDE GLOBAL MOSAIC

Ride Along with SSI on Global Mosaic	ACTIVITY ID: C9GNRTGLOB01+ START TIME: 97-177/23:20:00.199

Activity ID: Orbit C9 Target G Inst N OAPEL RTGLOB SeqNo 01 +

Title	Ride Along with SSI on Global Mosaic	Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 06/26/97 Week 26
Start	GEE+CDS 00000355:70:0	97-177/23:20:00.199	GEE+000/05:59:43.333
End	GEE+CDS 00000357:68:0	97-177/23:22:00.199	GEE+000/06:01:43.333
Duration	00000001:89:0	000/00:02:00.000	000/00:02:00.000

Top Label C9GNRTGLOB01+
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	40	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Spectral global context for SSI global mosaic observation.

Data Returned

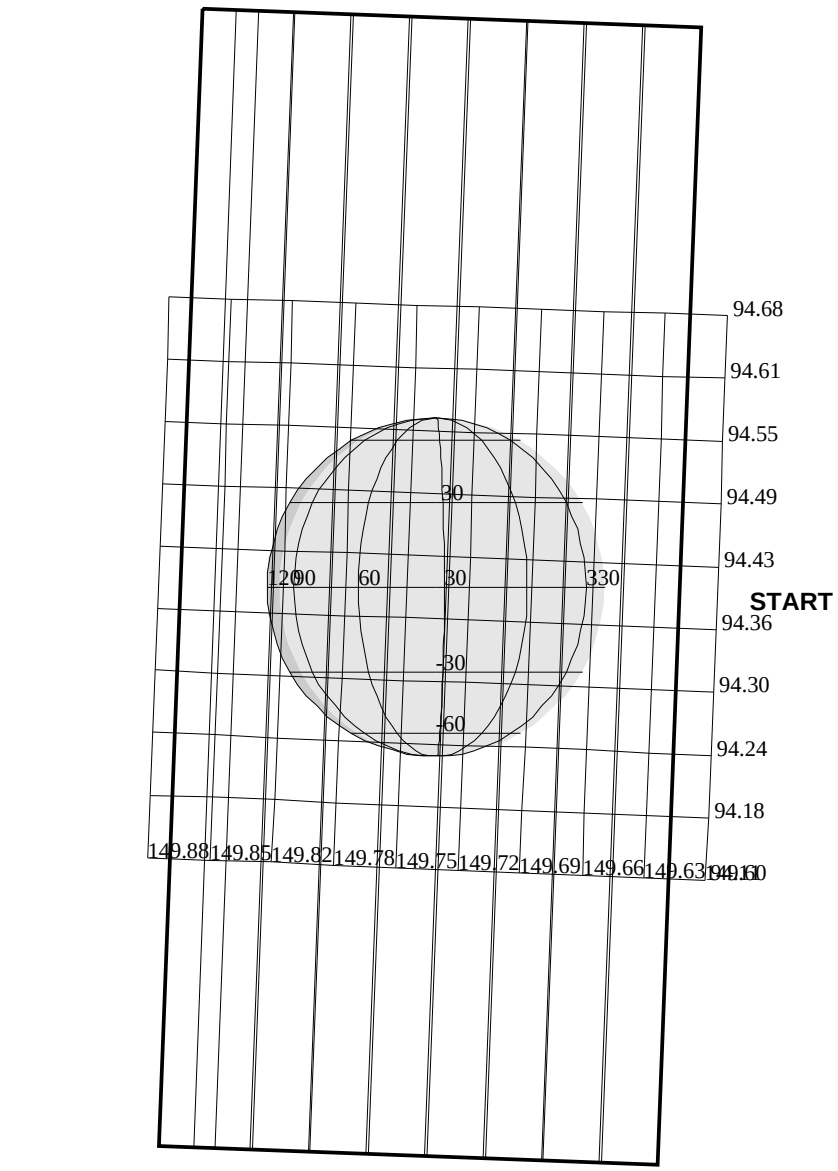
Design Detail

NIMS ride-along with SSI C9GSGLOBAL01).
Real-time observation: select R/T at target time.
Real-time duration = 2 RIMS (3.26% X 2 = 6.52% of MUB).
NIMS mode = LM.
Wavelength = 408.
Mirror Block (center mirror).
Gain state = 3.

MIRROR BLOCKED (1B,1B) (11011,11011)

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

Galileo Activity Plan Form 06/09/97 10:29:42 rev 6/95



165DU:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/3576 TC= 3
A= 728 pD= 1456 SR=17.450 RA50=291.71 DEC50=-23.66 cone=149.62 clock= 94.40
117DU:#SB= 1 OR= 0.100 RR= 1.800 BM=F RC= 1 BS= 0/3576
1:#s= 10 Cs= 4.00 XCs= 0.00 Cr= -4.00 XCr= 0.00 sD= 120 rD= 24

C9INWARMCV01

DESIGN G3.1 jdods: 6/11/1997 13:30:44

FILE:P.C9INWARMCV01

TARGET BODY : IO

MINI:m.C9INWARMCV01

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-179/02:31:09.466 -CDS 1510:00:0 **BODY PLOT TIME:TARGET-TIME D= 1456 S= 0.500**

OBSERVATION:C9INWARMCV01 **DESCRIP:Io Eclipse Warm Curve 1**

NIMS Io Eclipse Observation (egress) **ACTIVITY ID: C9INWARMCV01-**
START TIME: 97-178/00:59:19.466

Activity ID: Orbit C9 Target I Inst N OAPEL WARMCV SeqNo 01 -

Title	**NIMS Io Eclipse Observation (egress)**	**Instrument**	**NIMS**
Requestor	**NIMS-SWG/R. Lopes**	**Team NIMS**	**Working Group SWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/27/97 Week 26**
Start	**IEE-CDS 00001515:00:0**	**97-178/00:59:19.466**	**IEE-001/01:31:50.000**
End	**IEE-CDS 00001502:00:0**	**97-178/01:12:28.133**	**IEE-001/01:18:41.333**
Duration	**00000013:00:0**	**000/00:13:08.667**	**000/00:13:08.667**

Top Label **C9INWARMCV01-**
Bottom Label

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

Observation Objective

To investigate warming of hot spots on Io’s surface as Io is eclipsed by Jupiter. Eclipse exit time is 97-178/01:08:59.

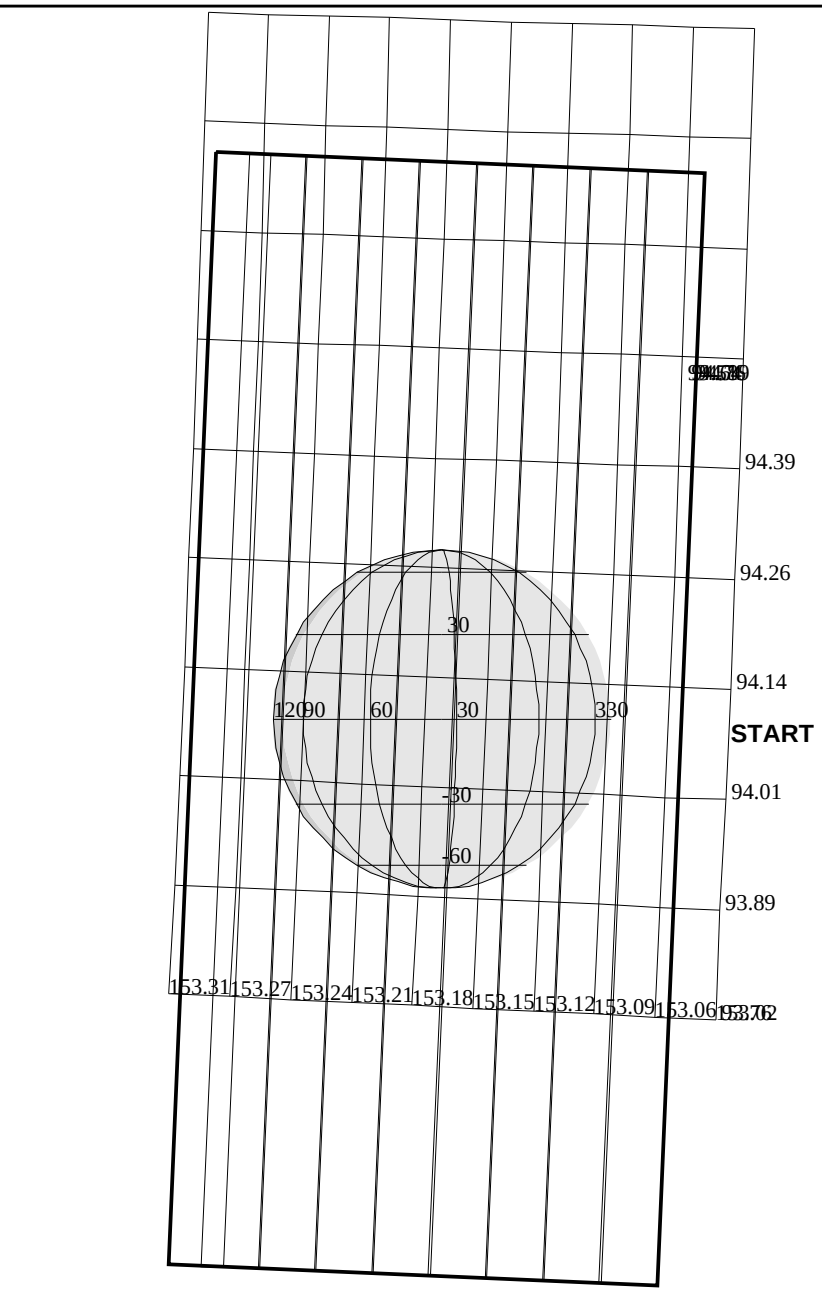
Data Returned

Design Detail

Instrument Mode = SM Wavelengths = 102

Short Map (SM), Gain 2, Grating Start 1, LPU, C9B_ISM68A, C9B_ISM68A

Galileo Activity Plan Form **06/09/97 10:29:42 rev 6/95**



165DV:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/0674 TC= 3
A= 728 pD= 1092 SR=17.450 RA50=295.39 DEC50=-23.02 cone=153.06 clock= 94.09
117DV:#SB= 1 OR= 0.100 RR= 1.800 BM=F RC= 1 BS= 0/0674
1:#s= 7 Cs= 4.00 XCs= 0.00 Cr= -4.00 XCr= 0.00 sD= 120 rD= 24

C9INWARMCV02

DESIGN G3.1 jdods: 6/11/1997 13:31:18

FILE:P.C9INWARMCV02

TARGET BODY : IO

MINI:m.C9INWARMCV02

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-179/02:31:09.466 -CDS 1471:00:0 **BODY PLOT TIME:TARGET-TIME D= 1092 S= 0.500**

OBSERVATION:C9INWARMCV02 **DESCRIP:Io Eclipse Warm Curve 2**

NIMS Io Eclipse Obs. (post-egress)	ACTIVITY ID: C9INWARMCV02- START TIME: 97-178/01:38:45.466

Activity ID: Orbit C9 Target I Inst N OAPEL WARMCV SeqNo 02 -

Title	NIMS Io Eclipse Obs. (post-egress)	Instrument	NIMS
Requestor	NIMS-SWG/R. Lopes	Team NIMS	Working Group SWG

Time System	CDS	Load ID	Calendar Date 06/27/97 Week 26
Start	IEE-CDS 00001476:00:0	97-178/01:38:45.466	IEE-001/00:52:24.000
End	IEE-CDS 00001464:00:0	97-178/01:50:53.466	IEE-001/00:40:16.000
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label	C9INWARMCV02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To investigate warming of hot spots on Io’s surface as Io is eclipsed by Jupiter.

Data Returned

Design Detail

Instrument Mode = SM Wavelengths = 102

Short Map (SM), Gain 2, Grating Start 1, LPU, C9B_ISM68A, C9B_ISM68A

Galileo Activity Plan Form 06/09/97 10:29:42 rev 6/95

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NIMS Real-Time Software Reload	**ACTIVITY ID: C9NNRELOAD03-** **START TIME: 97-178/05:53:33.466**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 03 -

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

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/27/97 Week 26**
Start	**JEE-CDS 00000360:00:0**	**97-178/05:53:33.466**		**JEE-000/06:04:00.000**	
End	**JEE-CDS 00000350:00:0**	**97-178/06:03:40.133**		**JEE-000/05:53:53.333**	
Duration	**00000010:00:0**	**000/00:10:06.667**		**000/00:10:06.667**	

Top Label	**C9NNRELOAD03-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

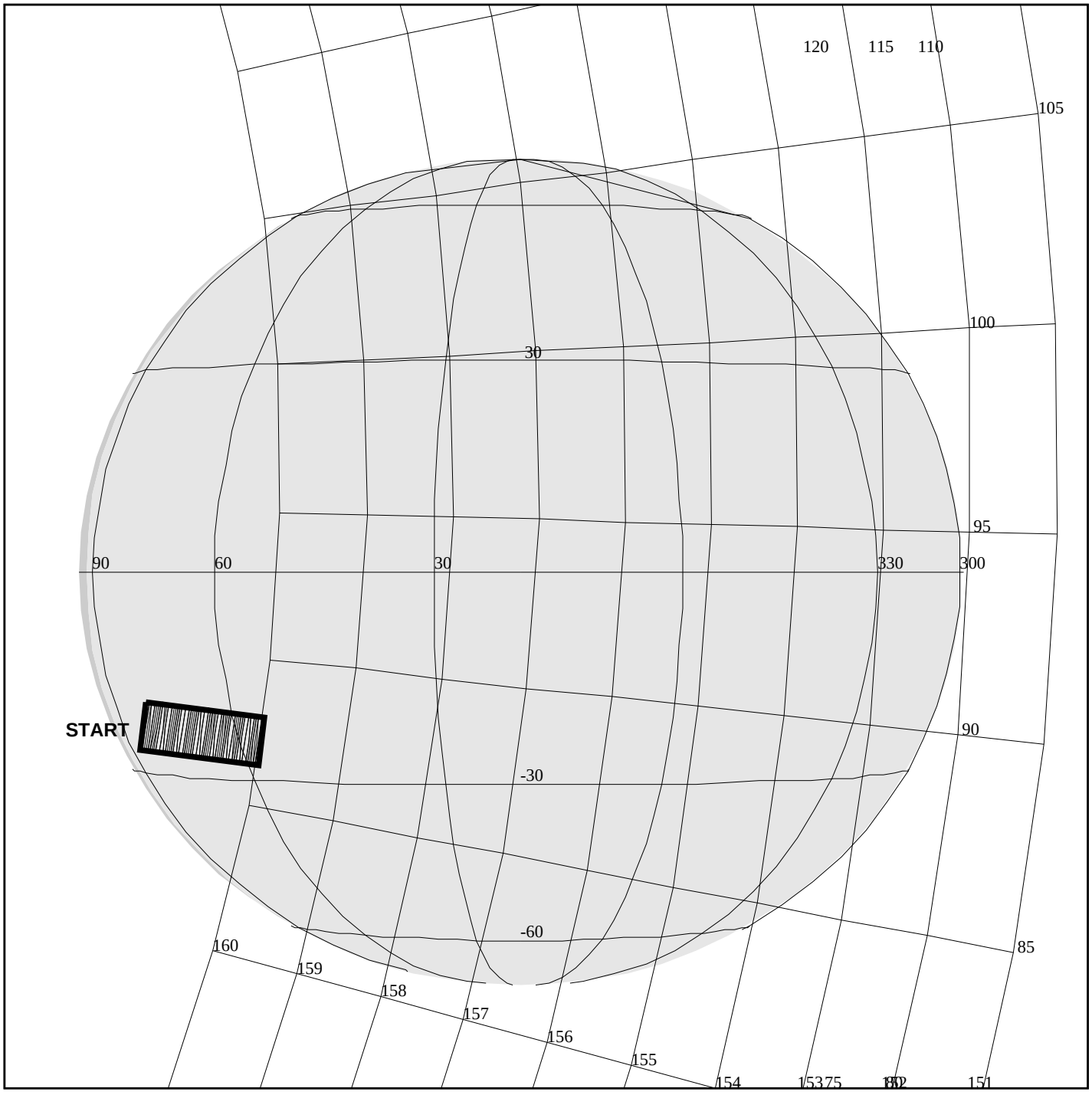
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

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.



165DX:TT= 0 TMC= 1 C= 10.00 XC= 0.00 BS= 0/3818 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50=304.84 DEC50=-22.89 cone=161.35 clock= 87.14
117DX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3818
1:#s= 1 Cs= -21.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS01102

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS01102

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 -CDS 315:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS01102 **DESCRIP:JUP_GREAT_RED_SPOT_11_DEG_02**

Jupiter Great Red Spot 11 degrees prt 2 **ACTIVITY ID: C9JNGRS01102-**
START TIME: 97-178/06:32:59.466

Activity ID: Orbit C9 Target J Inst N OAPEL GRS011 SeqNo 02 -

Title	**Jupiter Great Red Spot 11 degrees prt 2**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group** **AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/27/97**	**Week 26**
Start	**JEE-CDS 00000321:00:0**	**97-178/06:32:59.466**		**JEE-000/05:24:34.000**	
End	**JEE-CDS 00000311:00:0**	**97-178/06:43:06.133**		**JEE-000/05:14:27.333**	
Duration	**00000010:00:0**	**000/00:10:06.667**		**000/00:10:06.667**	

Top Label	**C9JNGRS01102-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the first of two observations obtained on a rotation with phase angle approximately 11 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red sPOT near 55 degrees relative longitude assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III).

Data Returned

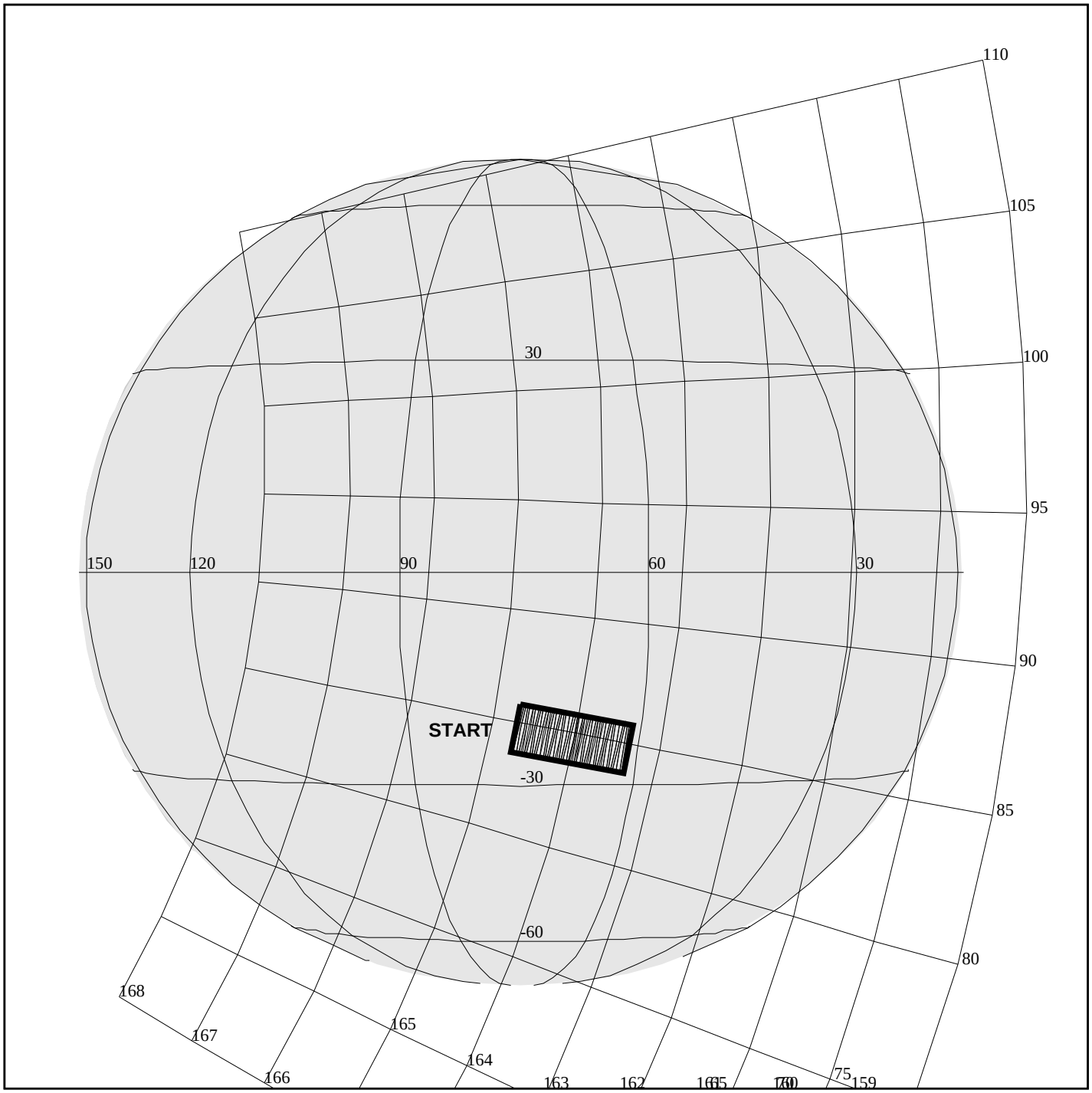
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.77 million KM, NIMS IFOV (NIMSel) = 385 KM; 2 X 1 mosaic covers 15400 X 7700 KM. About 200 seconds of scanning, accumulating 0.1797 MBTG in 19 colors, and using 0.00672 tracks. Four rims reserved for targetting.

Note (5/6/97): GRS center longitude now predicted to be at 62 degrees west longitude. This OAPEL observes 56-81 degrees longitude, i.e., Western half of the GRS.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:42 rev 6/95**



165DY:TT= 0 TMC= 1 C= 11.50 XC= 0.00 BS= 0/2746 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50=308.45 DEC50=-22.06 cone=164.71 clock= 84.71
117DY:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2746
1:#s= 1 Cs= -21.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS01103

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS01103

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 -CDS 211:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS01103 **DESCRIP:JUP_GREAT_RED_SPOT_11_DEG_03**

Jupiter Great Red Spot 11 degrees prt 3 ACTIVITY ID: C9JNGRS01103-
START TIME: 97-178/08:19:09.466

Activity ID: Orbit C9 Target J Inst N OAPEL GRS011 SeqNo 03 -

Title	Jupiter Great Red Spot 11 degrees prt 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date	06/27/97	Week 26
Start	JEE-CDS 00000216:00:0	97-178/08:19:09.466		JEE-000/03:38:24.000	
End	JEE-CDS 00000207:00:0	97-178/08:28:15.466		JEE-000/03:29:18.000	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	C9JNGRS01103-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the second of two observations obtained on a rotation with phase angle approximately 11 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near the minimum airmass close to the central meridian assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III).

Data Returned

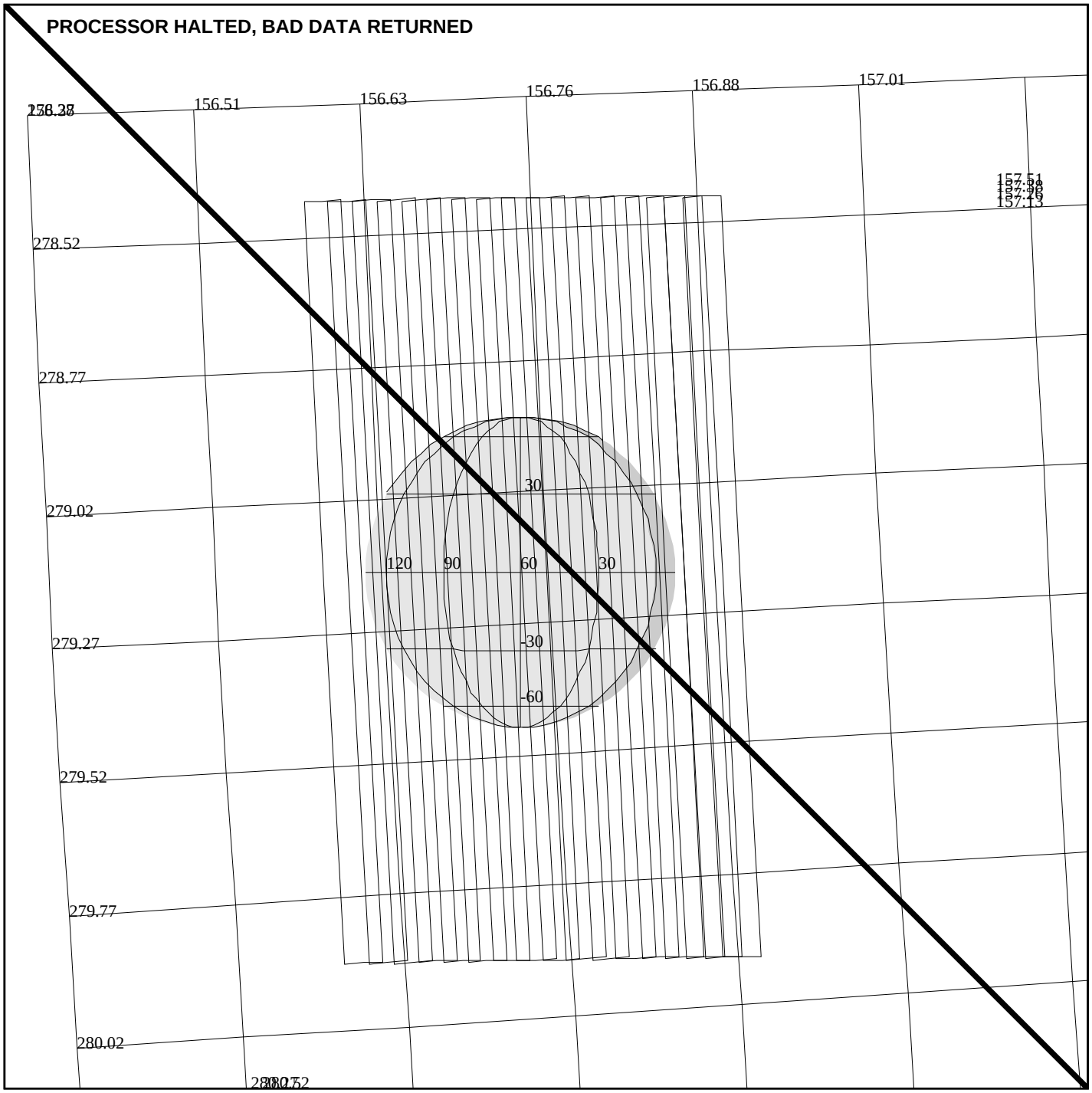
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.72 million KM, NIMS IFOV (NIMSel) = 360 KM; 2 X 1 mosaic covers 14400 X 7200 KM. About 200 seconds of scanning, accumulating 0.1797 MBTG in 19 colors, and using 0.00672 tracks. Four rims reserved for targetting.

Note (5/6/97): GRS center longitude now predicted to be at 62 degrees west longitude. This OAPEL observes 60-78 degrees W. longitude, i.e., Western half of the GRS.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:42 rev 6/95



165EA:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/6588 TC= 3
A= 728 pD= 0 SR=17.450 RA50=344.79 DEC50= -6.41 cone=156.60 clock=279.17
117EA:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/6588
1:#s= 2 Cs= 1.20 XCs= 0.00 Cr= -5.30 XCr= 0.00 sD= 434 rD= 18

C9INCHEMIS01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9INCHEMIS01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:IEE 97-179/02:31:09.466 -CDS 944:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:C9INCHEMIS01 **DESCRIP:C9INCHEMIS01**

Monitoring of Io’s Dayside	ACTIVITY ID: C9INCHEMIS01- START TIME: 97-178/10:31:36.800

Activity ID: Orbit C9 Target I Inst N OAPEL CHEMIS SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	06/27/97 Week 26
Start	IEE-CDS 00000949:00:0	97-178/10:31:36.800		IEE-000/15:59:32.666	
End	IEE-CDS 00000938:66:0	97-178/10:42:00.133		IEE-000/15:49:09.333	
Duration	00000010:25:0	000/00:10:23.333		000/00:10:23.333	

Top Label	C9INCHEMIS01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Processor Halted, Bad Data Returned

Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, C9ILM243C, C9ILM228C

Galileo Activity Plan Form 06/09/97 10:29:42 rev 6/95

Feature Track Window	**ACTIVITY ID: C9JNWINDOW01-** **START TIME: 97-178/12:08:40.799**

Activity ID: Orbit C9 Target J Inst N OAPEL WINDOW SeqNo 01 -

Title	**Feature Track Window**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/27/97 Week 26**
Start	**JEE+CDS 00000011:00:0**	**97-178/12:08:40.799**			**JEE+000/00:11:07.333**
End	**JEE+CDS 00000274:00:0**	**97-178/16:34:36.132**			**JEE+000/04:37:02.666**
Duration	**00000263:00:0**	**000/04:25:55.333**			**000/04:25:55.333**

Top Label	**C9JNWINDOW01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**0**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

NIMS Jupiter feature track window

Design Detail

Galileo Activity Plan Form	**06/09/97 10:29:42 rev 6/95**

NIMS Real-Time Software Reload	**ACTIVITY ID: C9NNRELOAD04-** **START TIME: 97-178/14:12:02.133**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 04 -

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

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/27/97 Week 26**
Start	**JTC+CDS 00000114:00:0**	**97-178/14:12:02.133**		**JTC+000/01:55:16.000**	
End	**JTC+CDS 00000119:00:0**	**97-178/14:17:05.466**		**JTC+000/02:00:19.333**	
Duration	**00000005:00:0**	**000/00:05:03.333**		**000/00:05:03.333**	

Top Label	**C9NNRELOAD04-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

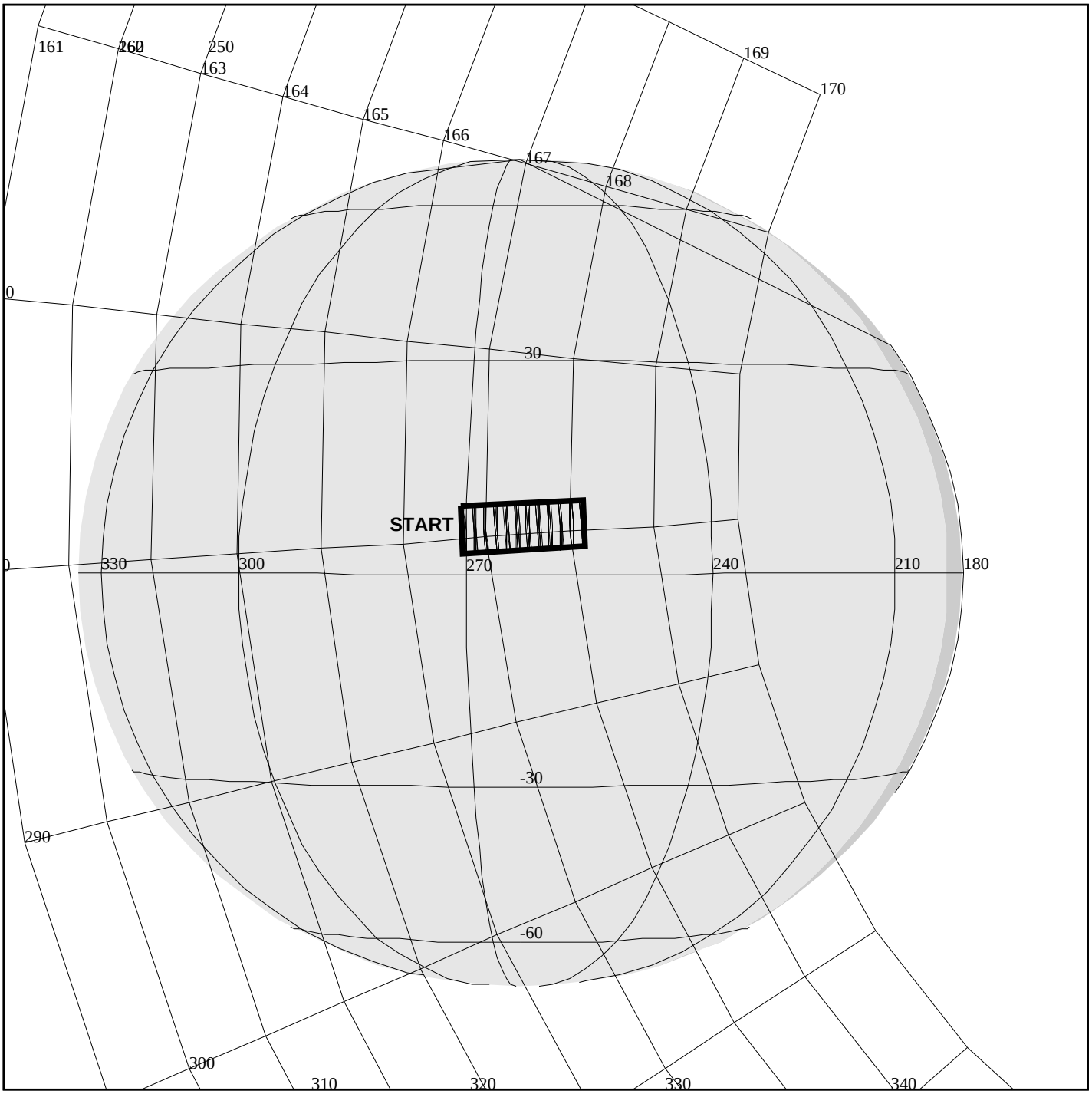
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

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.



165EG:TT= 0 TMC= 1 C= -15.00 XC= 0.00 BS= 0/6992 TC= 1(6.5 263)
A= 546 pD= 0 SR=17.450 RA50=335.38 DEC50=-10.10 cone=166.61 clock=279.54
118EG:#SB= 1 Cs= 2.00 XCs= 0.00 TPP= 104 SR= 3.000 RR=12.000 BM=F RC= 1 BS= 0/6992
1:#s= 13 #p= 1 Cr= 3.55 XCr= 0.00

C9JNFEAFUL01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEAFUL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JTC 97-178/12:16:46.133 +CDS 123:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEAFUL01 **DESCRIP:JUPITER_FTR_TRK_FULL_SPECTRA**

Jupiter Ftr Trk Full Spectra — **ACTIVITY ID: C9JNFEAFUL01-** / **START TIME: 97-178/14:18:06.133**

Activity ID: Orbit C9 Target J Inst N OAPEL FEAFUL SeqNo 01 -

Title	**Jupiter Ftr Trk Full Spectra**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/27/97 Week 26**
Start	**JTC+CDS 00000120:00:0**	**97-178/14:18:06.133**			**JTC+000/02:01:20.000**
End	**JTC+CDS 00000130:00:0**	**97-178/14:28:12.799**			**JTC+000/02:11:26.666**
Duration	**00000010:00:0**	**000/00:10:06.666**			**000/00:10:06.666**

Top Label	**C9JNFEAFUL01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

Full Long-map spectrum in 408 wavelengths of 12 selected regions within the Hot Spot/Plume 2 X 1 territory. The campaign feature, centered at centered at 249 degrees west longitude (System III), 8 degrees north planetographic latitude, observed near the central meridian during the phase angle approximately 15 degrees rotation.
The feature is scanned in all 408 wavelengths specified by NIMS wavelength table JFE408A: 0.695 - 5.22 microns.

Data Returned

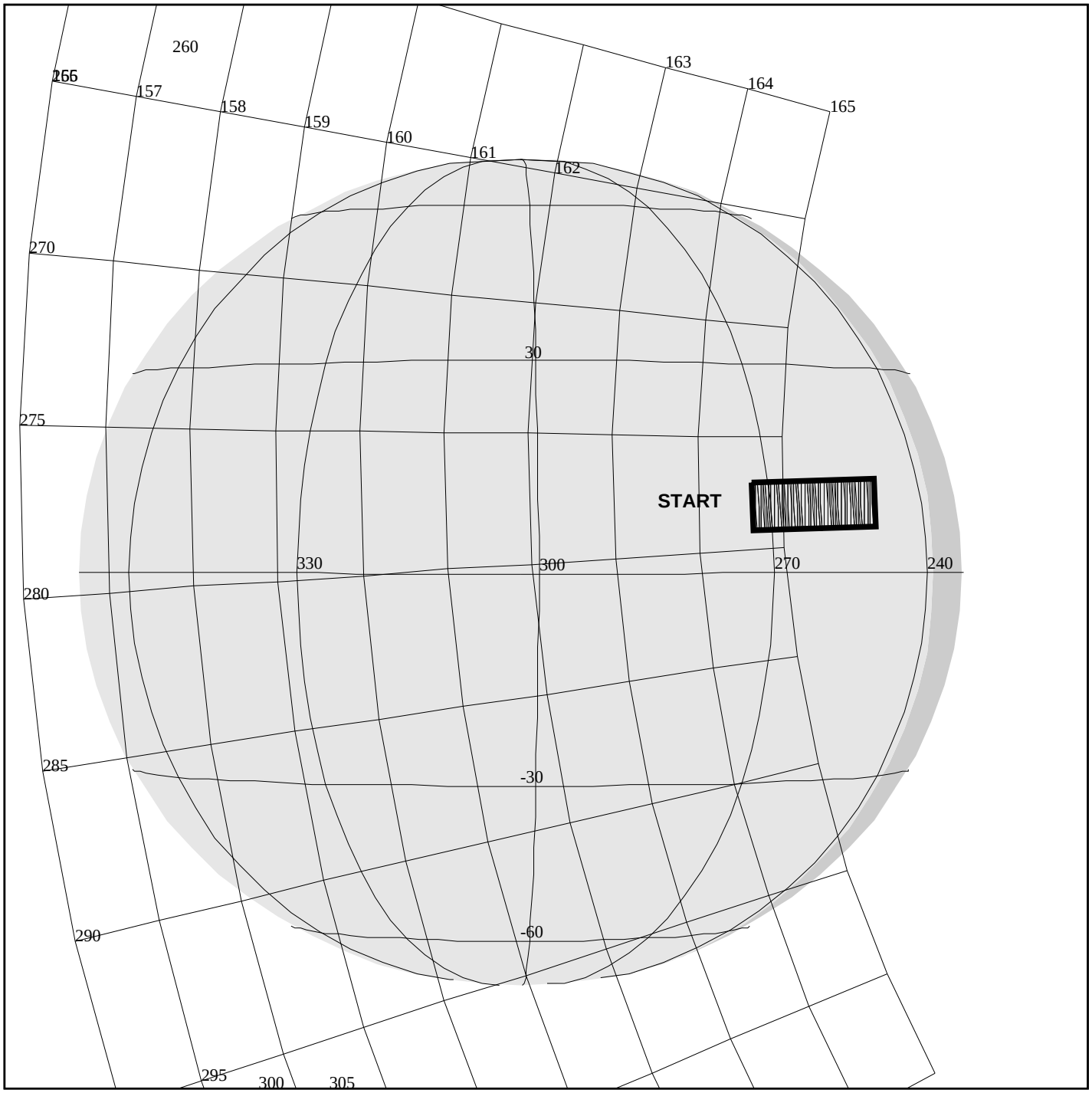
Design Detail

Long map, full 408-wavelength spectral observation of 12 selected NIMS columns evenly spaced about the center of the 2 X 1 Hot Spot/Plume campaign feature. At each site, 4 long map spectra are acquired, lasting 34.6667 seconds. Spacecraft distance 0.70 million KM, each column covers 350 X 7000 KM at 350 IFOV resolution.
About 436.667 seconds of start/stop scanning, including 3 seconds of repositioning between each of the 12 sites, accumulating 2.09237 MBTG and using 0.0550 tracks. Two rims reserved for targetting, coming in from THEBE.

NOTE 5/15/97: Target coordinates chaged to 263 degrees West longitude, 6.5 degrees North latitude, to encompass both hotspot and plume head.

Long Map (LM), Gain 2, Grating Start 0, LPU, C9JFE253A, C9JFE253A

Galileo Activity Plan Form — **06/09/97 10:29:42 rev 6/95**



165EK:TT= 0 TMC= 1 C= -13.00 XC= -4.50 BS= 0/0096 TC= 1(6.5 263)
A= 182 pD= 0 SR=17.450 RA50=337.10 DEC50= -9.07 cone=164.66 clock=278.11
117EK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0096
1:#s= 2 Cs= 21.90 XCs= 0.00 Cr= -23.50 XCr= 8.00 sD= 600 rD= 40

C9JNFEA01504

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA01504

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-178/12:16:46.133 +CDS 195:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA01504 **DESCRIP:Jup_Fea_trk_15_deg_phase_04**

Jupiter Ftr Trk 25 degrees Phase part 4 ACTIVITY ID: C9JNFEA01504-
START TIME: 97-178/15:31:54.799

Activity ID: Orbit C9 Target J Inst N OAPEL FEA015 SeqNo 04 -

Title	Jupiter Ftr Trk 25 degrees Phase part 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	Calendar Date 06/27/97 Week 26
Start	JTC+CDS 00000193:00:0	97-178/15:31:54.799	JTC+000/03:15:08.666
End	JTC+CDS 00000202:00:0	97-178/15:41:00.799	JTC+000/03:24:14.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label C9JNFEA01504-
Bottom Label

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

Observation Objective

One of 12 OAPELS constituting the feature tracks the Hot Spot/Plume feature campaign. This is the second of two observations obtained on on a rotation with phase angle approximately 15 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with Hot Spot/Plume feature near the evening terminator, assuming feature coordinates 8 degrees north latitude (planetographic) and nominally 249 degrees west longitude (System III). This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume coordinate.

Data Returned

Design Detail

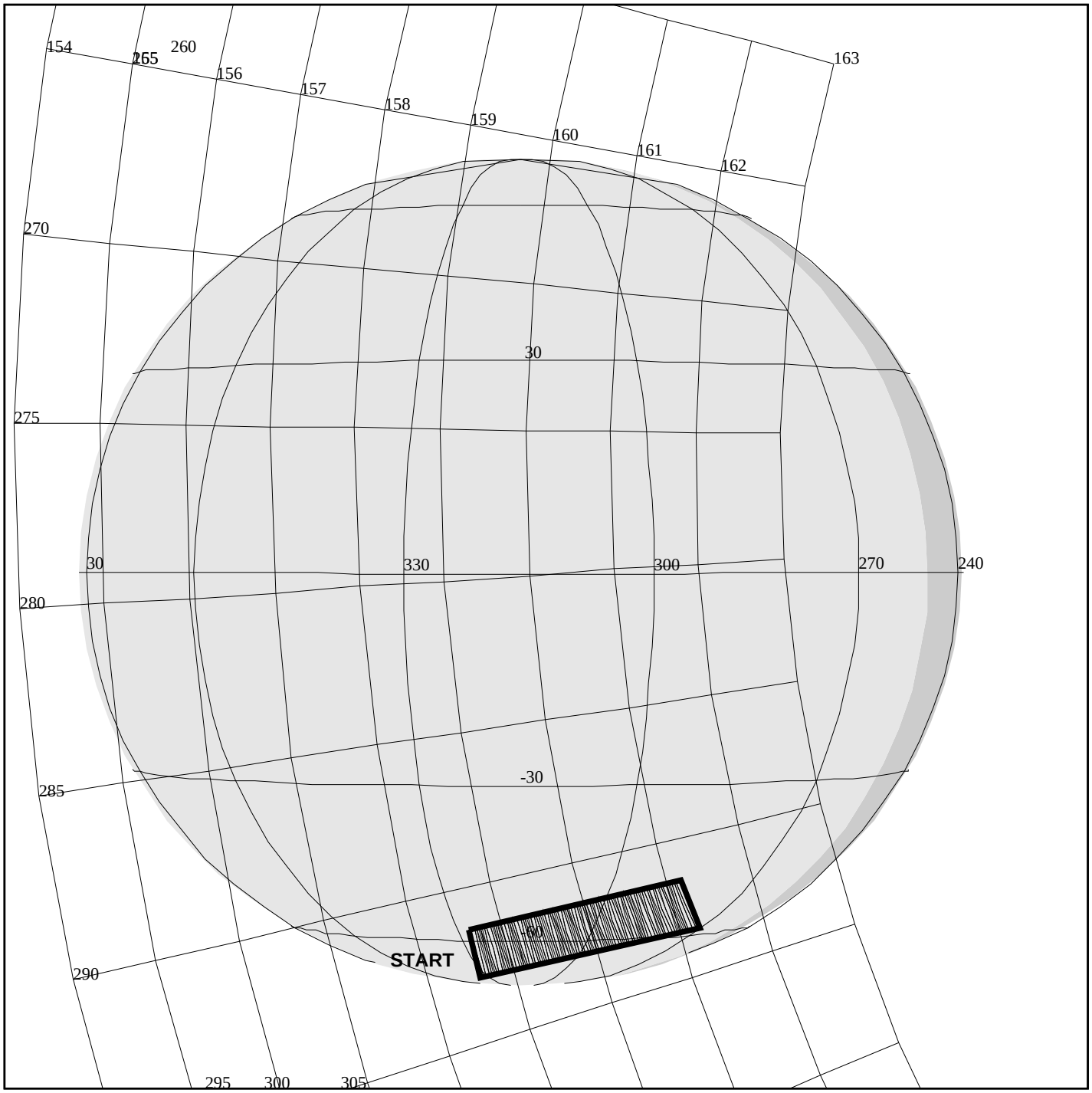
Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on Hot Spot/Plume feature nominally near 249 degrees west longitude, 8 degrees north planetographic latitude.
Spacecraft distance 0.73 million KM, NIMS IFOV (NIMSel) = 365 KM;
2 X 2 mosaic covers 14600 X 11826 KM. About 420 seconds of scanning, including 20 seconds for reposition slew, accumulating 0.37729 MBTG in 19 colors, and using 0.01411 tracks. One rim reserved for targetting.

NOTE 5/15/97: Target coordinates changed to 263 degrees West longitude, 6.5 degrees North latitude to encompass both hotspot and plume head.

Only top swath recorded and returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:43 rev 6/95



165EL:TT= 0 TMC= 1 C= -20.00 XC= -6.00 BS= 0/4828 TC= 1(-65 300)
A= 364 pD= 0 SR=17.450 RA50=344.16 DEC50=-11.70 cone=158.64 clock=292.12
117EL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4828
1:#s= 2 Cs= 40.00 XCs= 0.00 Cr= -44.00 XCr= 6.00 sD= 1104 rD= 28

C9JNSPOLEM04

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNSPOLEM04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTC 97-178/12:16:46.133 +CDS 221:00: **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNSPOLEM04 **DESCRIP:JUPITER_SOUTH_POLE_MAP_04**

Jupiter South Pole Map part 4	ACTIVITY ID: C9JNSPOLEM04- START TIME: 97-178/15:56:10.799

Activity ID: Orbit C9 Target J Inst N OAPEL SPOLEM SeqNo 04 -

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

Time System	CDS	Load ID	Calendar Date	06/27/97	Week 26
Start	JTC+CDS 00000217:00:0	97-178/15:56:10.799		JTC+000/03:39:24.666	
End	JTC+CDS 00000233:82:0	97-178/16:13:16.133		JTC+000/03:56:30.000	
Duration	00000016:82:0	000/00:17:05.334		000/00:17:05.334	

Top Label	C9JNSPOLEM04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four 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 300 degrees west longitude. South Pole imaged in 25 colors, using NIMS downlink wavelength table JFT25A. OAPELS SPOLEM01 thru SPOLEM03 deleted to avoid cone pole problems. Resources re-allocated amongst SPOLEM04, SPOLEM05, SPOLEM06 and SPOLEM08.

Data Returned

Design Detail

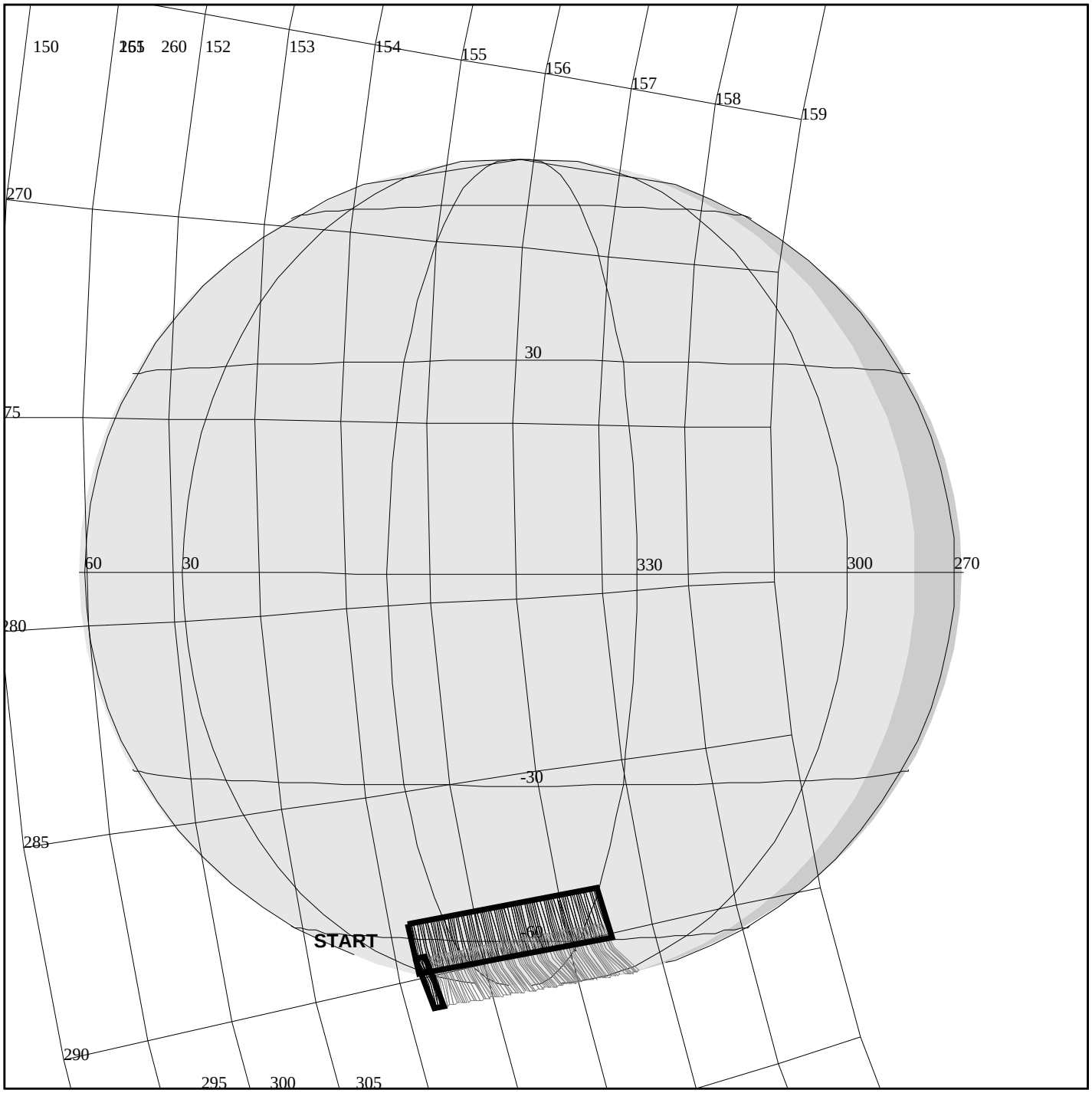
Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 300 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.74 million KM, NIMS IFOV (NIMSel) = 370 KM. 4 X 2 mosaic covers 29600 X 13320 KM, covering more than 30 degrees of longitude in the polar region. About 750 seconds = 12:30 of scanning, including 10 seconds for a reposition slew, accumulating 0.6737 MBTG in 19 colors, and using 0.0252 tracks. Target time is two rims.

Only top swath recorded and returned.

Only Dark Sky Returned, Jupiter not Seen in the Data.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:43 rev 6/95



165EM:TT= 0 TMC= 1 C= -20.00 XC= -6.00 BS= 0/4292 TC= 1(-65 345)
A= 728 pD= 0 SR=17.450 RA50=348.31 DEC50= -9.68 cone=154.24 clock=289.18
117EM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4292
1:#s= 2 Cs= 35.00 XCs= 0.00 Cr= -40.00 XCr= 6.00 sD= 964 rD= 28

C9JNSPOLEM05

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNSPOLEM05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 292:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNSPOLEM05 **DESCRIP:JUPITER_SOUTH_POLE_MAP_05**

Jupiter South Pole Map part 5	ACTIVITY ID: C9JNSPOLEM05- START TIME: 97-178/16:44:42.799

Activity ID: Orbit C9 Target J Inst N OAPEL SPOLEM SeqNo 05 -

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

Time System	CDS	Load ID	Calendar Date 06/27/97 Week 26
Start	JEE+CDS 00000284:00:0	97-178/16:44:42.799	JEE+000/04:47:09.333
End	JEE+CDS 00000303:00:0	97-178/17:03:55.466	JEE+000/05:06:22.000
Duration	00000019:00:0	000/00:19:12.667	000/00:19:12.667

Top Label	C9JNSPOLEM05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of four 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 345 degrees west longitude. South Pole imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

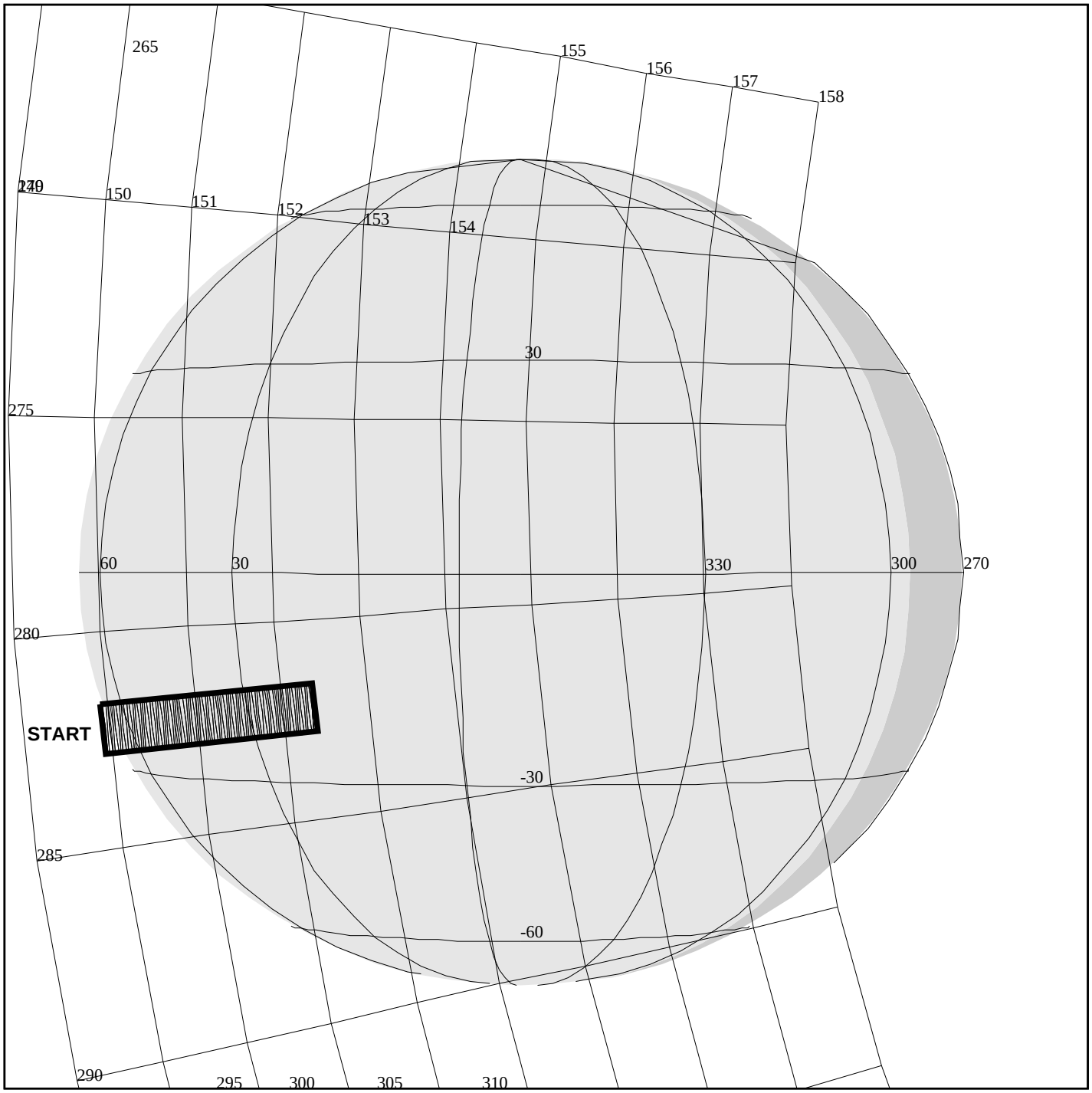
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 345 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.75 million KM, NIMS IFOV (NIMSel) = 375 KM. 4 X 2 mosaic covers 30000 X 13500 KM, covering more than 30 degrees of longitude in the polar region. About 750 seconds = 12:30 of scanning, including 10 seconds for a reposition slew, accumulating 0.6737 MBTG in 19 colors, and using 0.0252 tracks. Target time is four rims.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form	06/09/97 10:29:43	rev 6/95



165EN:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/7204 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50=351.54 DEC50= -5.33 cone=149.93 clock=282.21
117EN:#SB= 1 OR= 0.200 RR=12.000 BM=F RC= 1 BS= 0/7204
1:#s= 1 Cs= 41.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS03901

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS03901

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-178/11:57:33.466 +CDS 308:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS03901 **DESCRIP:JUP_GREAT_RED_SPOT_39_DEG_01**

Jupiter Great Red Spot 39 degrees prt 1 ACTIVITY ID: C9JNGRS03901-
START TIME: 97-178/17:03:55.466

Activity ID: Orbit C9 Target J Inst N OAPEL GRS039 SeqNo 01 -

Title	Jupiter Great Red Spot 39 degrees prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/27/97 Week 26
Start	JEE+CDS 00000303:00:0	97-178/17:03:55.466		JEE+000/05:06:22.000	
End	JEE+CDS 00000312:00:0	97-178/17:13:01.466		JEE+000/05:15:28.000	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	C9JNGRS03901-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the first of three observations obtained on a rotation with phase angle approximately 39 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near the morning limb, assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III).

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.78 million KM, NIMS IFOV (NIMSel) = 390 KM;
1 X 2 mosaic covers 15600 X 7800 KM. About 200 seconds of scanning, accumulating 0.1797 MBTG in 19 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees West longitude. This limb observation observes 35-77 degrees W. longitude.

NOTE 5/15/97: Scan rate increased to encompass 4 X 1 area, in order to acquire the eastern side of the GRS including some of the interaction between the colliding small white oval and GRS.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:43 rev 6/95

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NIMS Real-Time Software Reload	**ACTIVITY ID: C9NNRELOAD05-** **START TIME: 97-178/17:55:29.466**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 05 -

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

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/27/97 Week 26**
Start	**JEE+CDS 00000354:00:0**	**97-178/17:55:29.466**		**JEE+000/05:57:56.000**	
End	**JEE+CDS 00000364:00:0**	**97-178/18:05:36.132**		**JEE+000/06:08:02.666**	
Duration	**00000010:00:0**	**000/00:10:06.666**		**000/00:10:06.666**	

Top Label	**C9NNRELOAD05-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

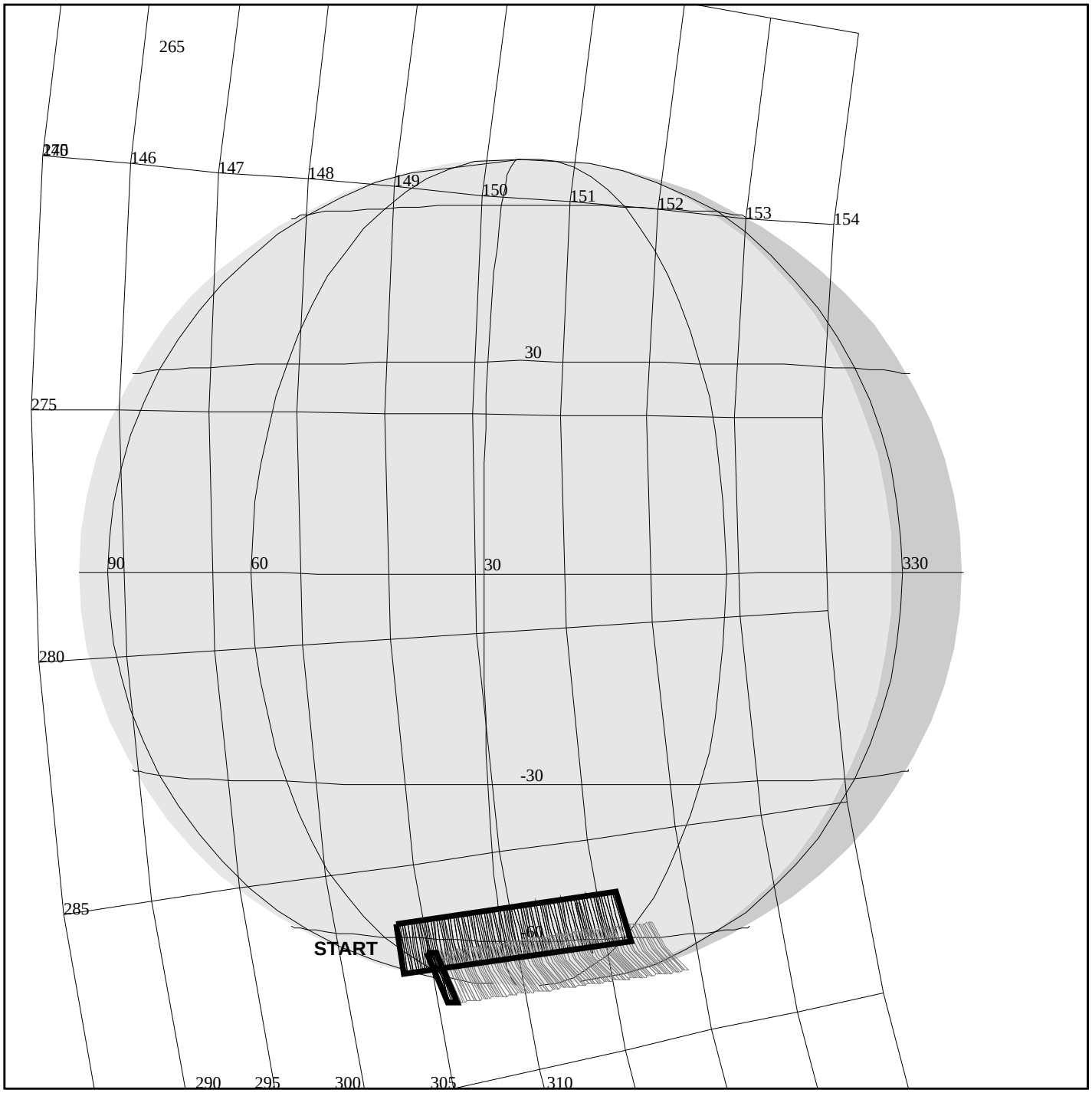
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

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.



165EO:TT= 0 TMC= 1 C= -20.00 XC= -5.00 BS= 0/8306 TC= 1(-65 30)
A= 728 pD= 0 SR=17.450 RA50=353.42 DEC50= -7.18 cone=148.72 clock=286.78
117EO:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8306
1:#s= 2 Cs= 40.00 XCs= 0.00 Cr= -40.00 XCr= 6.00 sD= 1104 rD= 40

C9JNSPOLEM06

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNSPOLEM06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 369:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNSPOLEM06 **DESCRIP:JUPITER_SOUTH_POLE_MAP_06**

Jupiter South Pole Map part 6	**ACTIVITY ID: C9JNSPOLEM06-** **START TIME: 97-178/18:05:36.132**

Activity ID: Orbit C9 Target J Inst N OAPEL SPOLEM SeqNo 06 -

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

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/27/97**	**Week 26**
Start	**JEE+CDS 00000364:00:0**	**97-178/18:05:36.132**		**JEE+000/06:08:02.666**	
End	**JEE+CDS 00000383:00:0**	**97-178/18:24:48.799**		**JEE+000/06:27:15.333**	
Duration	**00000019:00:0**	**000/00:19:12.667**		**000/00:19:12.667**	

Top Label	**C9JNSPOLEM06-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

Third of four 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 30 degrees west longitude. South Pole imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

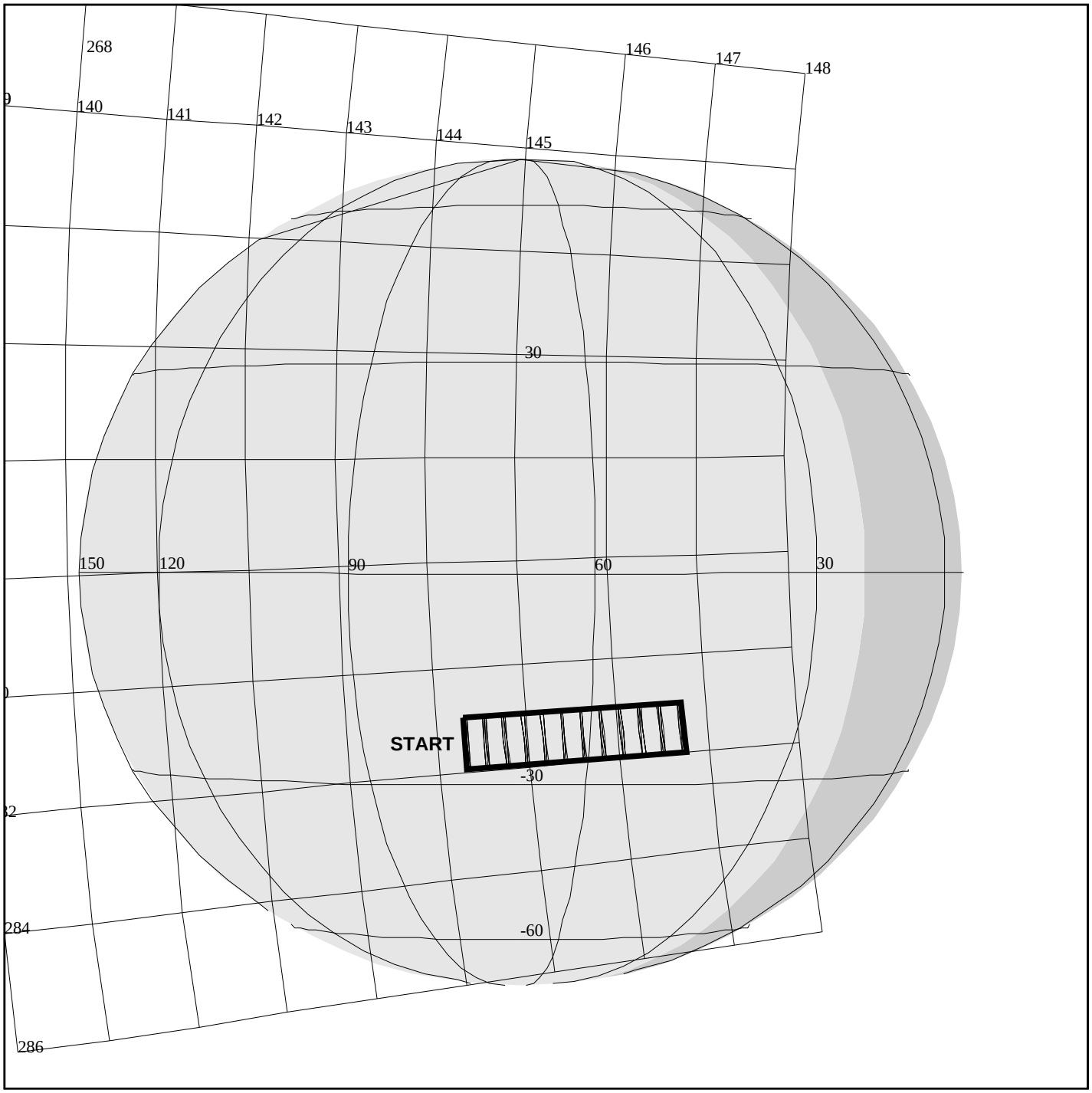
Data Returned

Design Detail

Short map, Nyquist sampled observation of 4 X 2 (40 X 18 mrad) area centered on South Pole at 30 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.75 million KM, NIMS IFOV (NIMSel) = 375 KM. 4 X 2 mosaic covers 30000 X 13500 KM, covering more than 30 degrees of longitude in the polar region. About 750 seconds = 6:30 of scanning, includeing 10 seconds for a reposition slew, accumulating 0.6737 MBTG in 19 colors, and using 0.0252 tracks. Target time is four rims.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form	**06/09/97 10:29:43**	**rev 6/95**



165ET:TT= 0 TMC= 1 C= -14.00 XC= 0.00 BS= 0/2866 TC= 1(-23 69)
A= 182 pD= 0 SR=17.450 RA50=356.87 DEC50= -2.93 cone=144.11 clock=281.44
118ET:#SB= 1 Cs= 3.55 XCs= 0.00 TPP= 104 SR= 3.000 RR=12.000 BM=F RC= 1 BS= 0/2866
1:#s= 13 #p= 1 Cr= 3.55 XCr= 0.00

C9JNGRSFUL01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRSFUL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-178/11:57:33.466 +CDS 449:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRSFUL01 **DESCRIP:JUPITER_FTR_TRK_FULL_SPECTRA**

Jupiter Great Red Spot Full-Spectra **ACTIVITY ID: C9JNGRSFUL01-**
START TIME: 97-178/19:27:30.132

Activity ID: Orbit C9 Target J Inst N OAPEL GRSFUL SeqNo 01 -

Title	**Jupiter Great Red Spot Full-Spectra**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date 06/27/97 Week 26**
Start	**JEE+CDS 00000445:00:0**	**97-178/19:27:30.132**	**JEE+000/07:29:56.666**
End	**JEE+CDS 00000456:00:0**	**97-178/19:38:37.466**	**JEE+000/07:41:04.000**
Duration	**00000011:00:0**	**000/00:11:07.334**	**000/00:11:07.334**

Top Label C9JNGRSFUL01-
Bottom Label

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

Observation Objective

Full Long-map spectrum in 408 wavelengths of 12 selected regions within the Great Red Spot 2 X 1 territory.
The GRS campaign feature, centered at 69 degrees west longitude (System III), 23 degrees south planetographic latitude, observed near the central meridian during the phase angle approximately 39 degrees rotation. The feature is scanned in 253 wavelengths specified by NIMS wavelength table JFE253A: 0.695 - 5.22 microns.

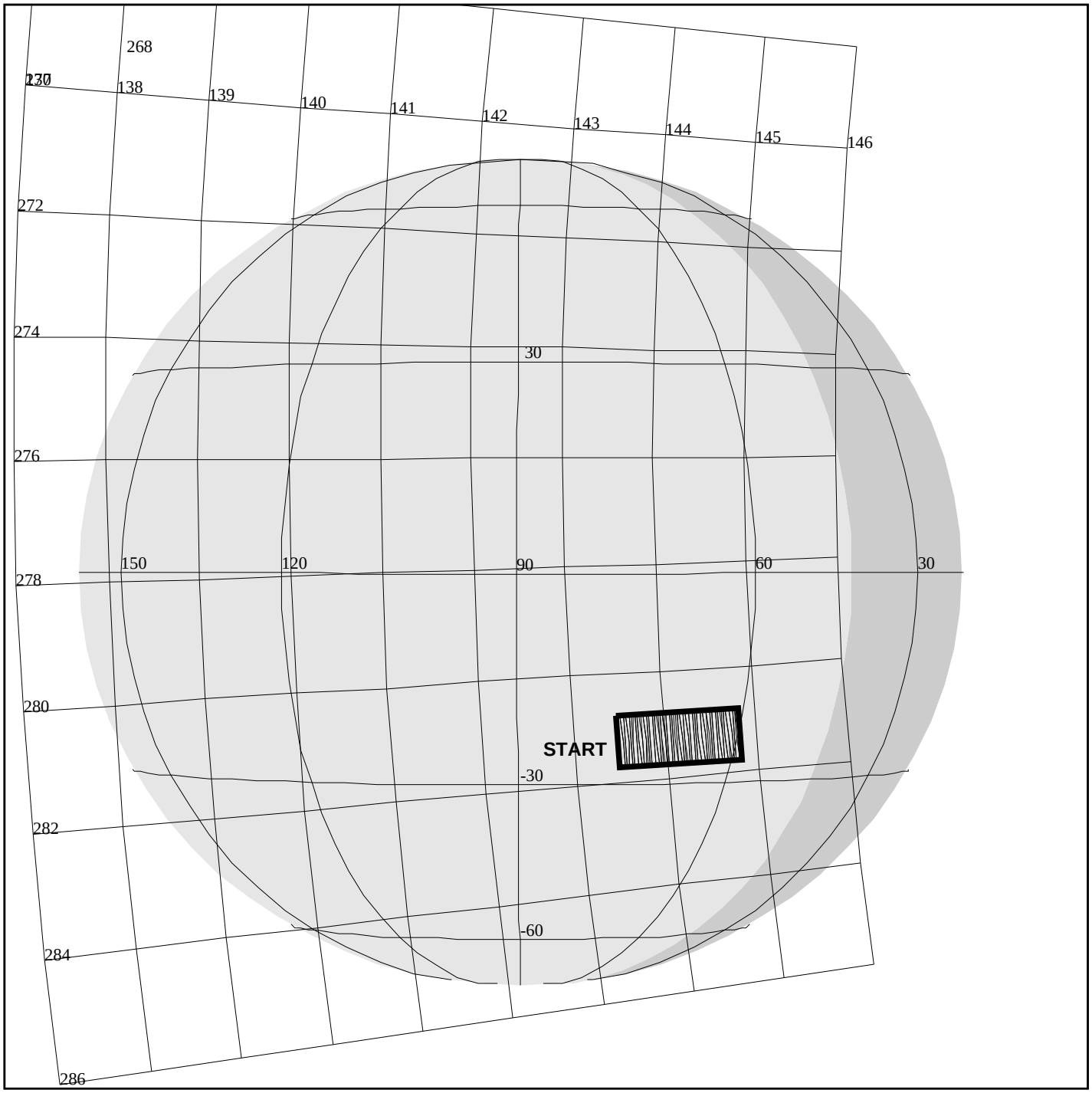
Data Returned

Design Detail

Long map, full spectral observation of 12 selected NIMS columns evenly spaced about the center of the 2 X 1 GRS campaign feature.
At each site, 4 long map spectra are acquired, lasting 34.6667 seconds.
Spacecraft distance 0.75 million KM, each column covers 375 X 7500 KM at 375 IFOV resolution. About 436.667 seconds of start/stop scanning, including 3 seconds of repositioning between each of the 12 sites, accumulating 2.09237 MBTG and using 0.0550 tracks.
One rim reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees west longitude. This observation obtains spectra sampling longitude from 55 to 83 degrees longitude.

Long Map (LM), Gain 2, Grating Start 0, MPW, C9JFE442A, C9JFE360A



165EU:TT= 0 TMC= 1 C= -11.25 XC= 0.00 BS= 0/9782 TC= 1(-23 69)
A= 182 pD= 0 SR=17.450 RA50=357.43 DEC50= -2.60 cone=143.48 clock=281.26
117EU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9782
1:#s= 1 Cs= 21.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS03902

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS03902

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 487:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS03902 **DESCRIP:JUP_GREAT_RED_SPOT_39_DEG_02**

Jupiter Great Red Spot 39 degrees prt 2 ACTIVITY ID: C9JNGRS03902-
START TIME: 97-178/20:07:56.799

Activity ID: Orbit C9 Target J Inst N OAPEL GRS039 SeqNo 02 -

Title	Jupiter Great Red Spot 39 degrees prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 06/27/97 Week 26
Start	JEE+CDS 00000485:00:0	97-178/20:07:56.799	JEE+000/08:10:23.333
End	JEE+CDS 00000491:00:0	97-178/20:14:00.799	JEE+000/08:16:27.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label C9JNGRS03902-
Bottom Label

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

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the second of three observations obtained on a rotation with phase angle approximately 39 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near 21 degrees relative longitude, assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III)

Data Returned

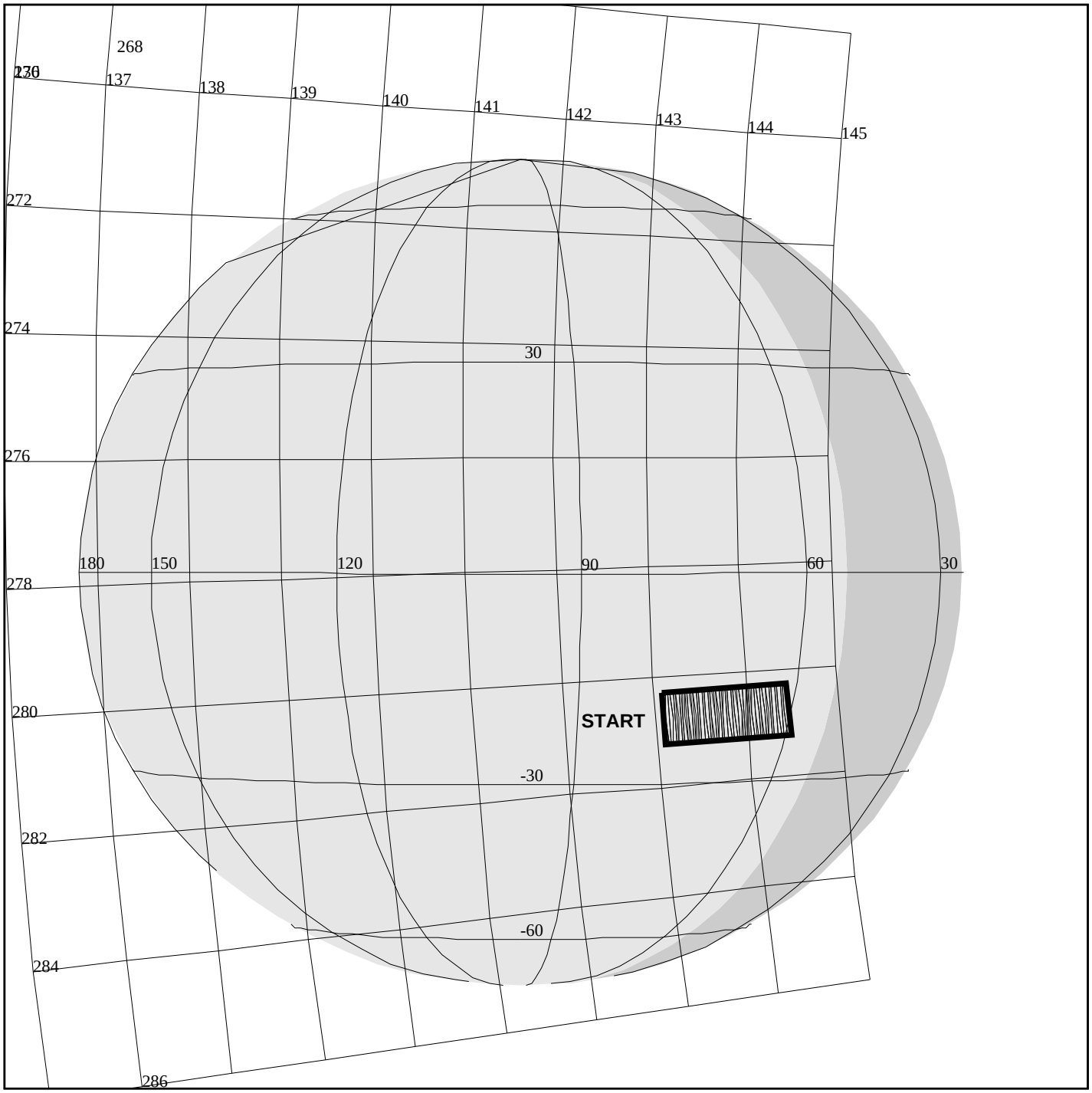
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.77 million KM, NIMS IFOV (NIMSel) = 385 KM;
2 X 1 mosaic covers 15400 X 7700 KM. About 200 seconds of scanning, accumulating 0.1797 MBTG in 19 colors, and using 0.00672 tracks.
One rim reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees west longitude. This observation covers 60 to 77 degrees longitude, i.e., Western half of the GRS.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:43 rev 6/95



165EV:TT= 0 TMC= 1 C= -12.00 XC= -4.50 BS= 0/2330 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50=357.68 DEC50= -2.18 cone=143.09 clock=280.75
117EV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2330
1:#s= 2 Cs= 21.80 XCs= 0.00 Cr= -23.00 XCr= 8.00 sD= 600 rD= 40

C9JNGRS03903

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS03903

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 501:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS03903 **DESCRIP:JUP_GREAT_RED_SPOT_39_DEG_03**

Jupiter Great Red Spot 39 degrees prt 3 **ACTIVITY ID: C9JNGRS03903-**
START TIME: 97-178/20:19:04.132

Activity ID: Orbit C9 Target J Inst N OAPEL GRS039 SeqNo 03 -

Title	**Jupiter Great Red Spot 39 degrees prt 3**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group** **AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/27/97**	**Week 26**
Start	**JEE+CDS 00000496:00:0**	**97-178/20:19:04.132**		**JEE+000/08:21:30.666**	
End	**JEE+CDS 00000508:00:0**	**97-178/20:31:12.132**		**JEE+000/08:33:38.666**	
Duration	**00000012:00:0**	**000/00:12:08.000**		**000/00:12:08.000**	

Top Label	**C9JNGRS03903-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the third of three observations obtained on a rotation with phase angle approximately 39 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near 30 degrees relative longitude, assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III)

Data Returned

Design Detail

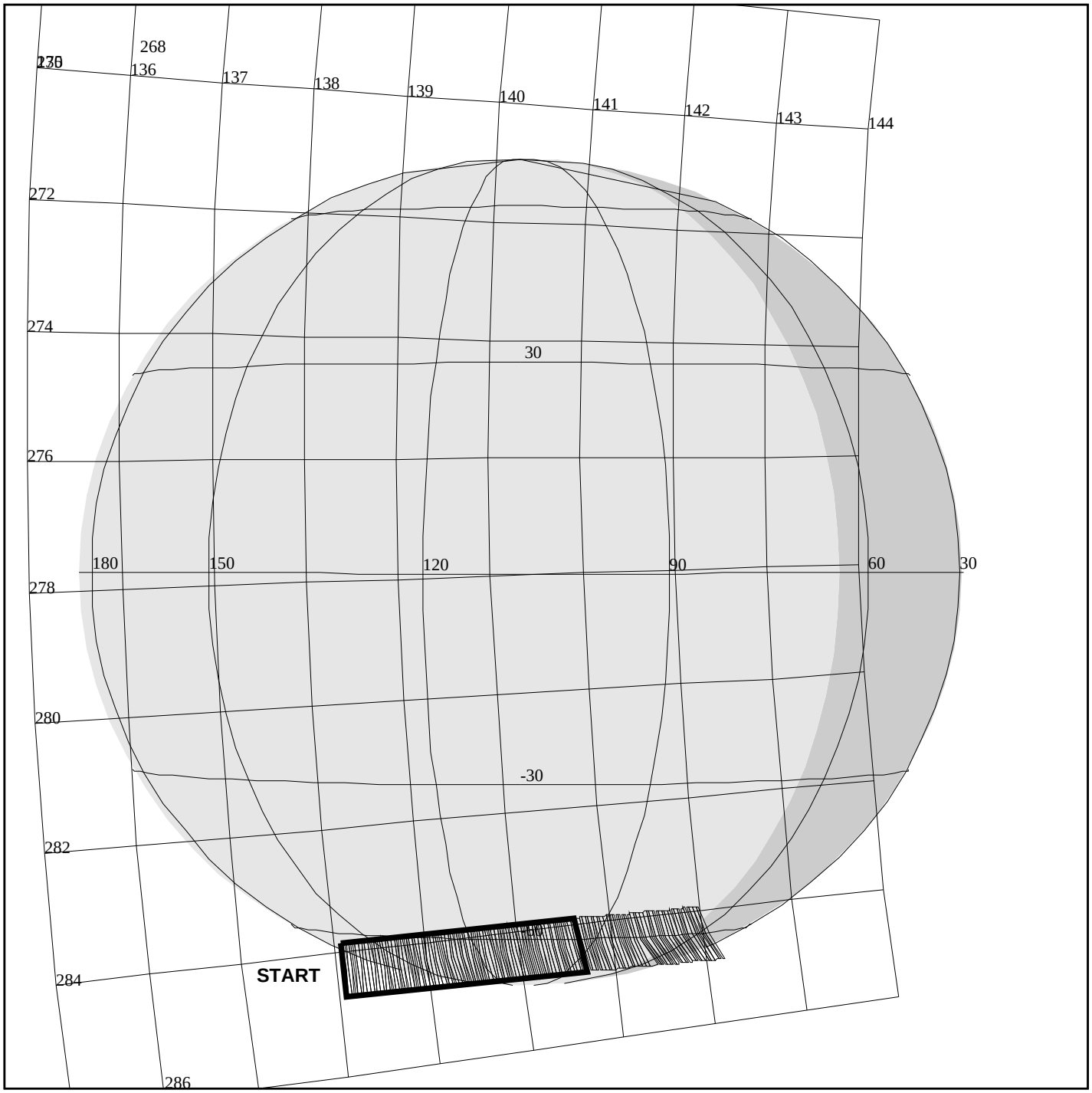
Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.78 million KM, NIMS IFOV (NIMSel) = 390 KM; 2 X 2 mosaic covers 15600 X 14040 KM. About 420 seconds of scanning, including 20 seconds for reposition slew, accumulating 0.3773 MBTG in 19 colors, and using 0.01073 tracks. Four rims reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees west longitude. This observation covers 57 to 78 degrees W. longitude,i.e., Western half of the GRS.

Only top swath recorded and returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:43 rev 6/95**



165EX:TT= 0 TMC= 1 C= -39.00 XC= -2.00 BS= 0/5970 TC= 1(-65 100)
A= 182 pD= 0 SR=17.450 RA50= 3.15 DEC50= -2.57 cone=138.09 clock=284.28
117EX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5970
1:#s= 1 Cs= 61.00 XCs= 0.00 Cr= -67.00 XCr= 7.00 sD= 1678 rD= 40

C9JNSPOLEM08

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNSPOLEM08

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 521:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNSPOLEM08 **DESCRIP:JUPITER_SOUTH_POLE_MAP_08**

Jupiter South Pole Map part 8	ACTIVITY ID: C9JNSPOLEM08- START TIME: 97-178/20:41:18.799

Activity ID: Orbit C9 Target J Inst N OAPEL SPOLEM SeqNo 08 -

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

Time System	CDS	Load ID	Calendar Date	06/27/97	Week 26
Start	JEE+CDS 00000518:00:0	97-178/20:41:18.799	JEE+000/08:43:45.333		
End	JEE+CDS 00000531:00:0	97-178/20:54:27.466	JEE+000/08:56:54.000		
Duration	00000013:00:0	000/00:13:08.667	000/00:13:08.667		

Top Label	C9JNSPOLEM08-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of four 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 100 degrees west longitude. South Pole imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

Data Returned

Design Detail

Short map, Nyquist sampled observation of 6 X 2 (60 X 18 mrad) area centered on South Pole at 100 degrees west longitude, 65 degrees south latitude. Spacecraft distance about 0.78 million KM, NIMS IFOV (NIMSel) = 390 KM. 6 X 2 mosaic covers 46800 X 140400KM, covering more than 50 degrees of longitude in the polar region. About 1140 seconds = 19:30 of scanning, including 10 seconds for a reposition slew, accumulating 1.024 MBTG in 19 colors, and using 0.0252 tracks. Target time is one rim.

Note: Original tape and MBTG resources of SPOLE07 combined with SPOLE08 to save CDS bytes.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form	06/09/97 10:29:43	rev 6/95

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NIMS Real-Time Software Reload	**ACTIVITY ID: C9NNRELOAD06-** **START TIME: 97-178/21:16:42.133**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 06 -

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

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/27/97 Week 26**
Start	**IEE-CDS 00000311:00:0**	**97-178/21:16:42.133**		**IEE-000/05:14:27.333**	
End	**IEE-CDS 00000301:00:0**	**97-178/21:26:48.800**		**IEE-000/05:04:20.666**	
Duration	**00000010:00:0**	**000/00:10:06.667**		**000/00:10:06.667**	

Top Label	**C9NNRELOAD06-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

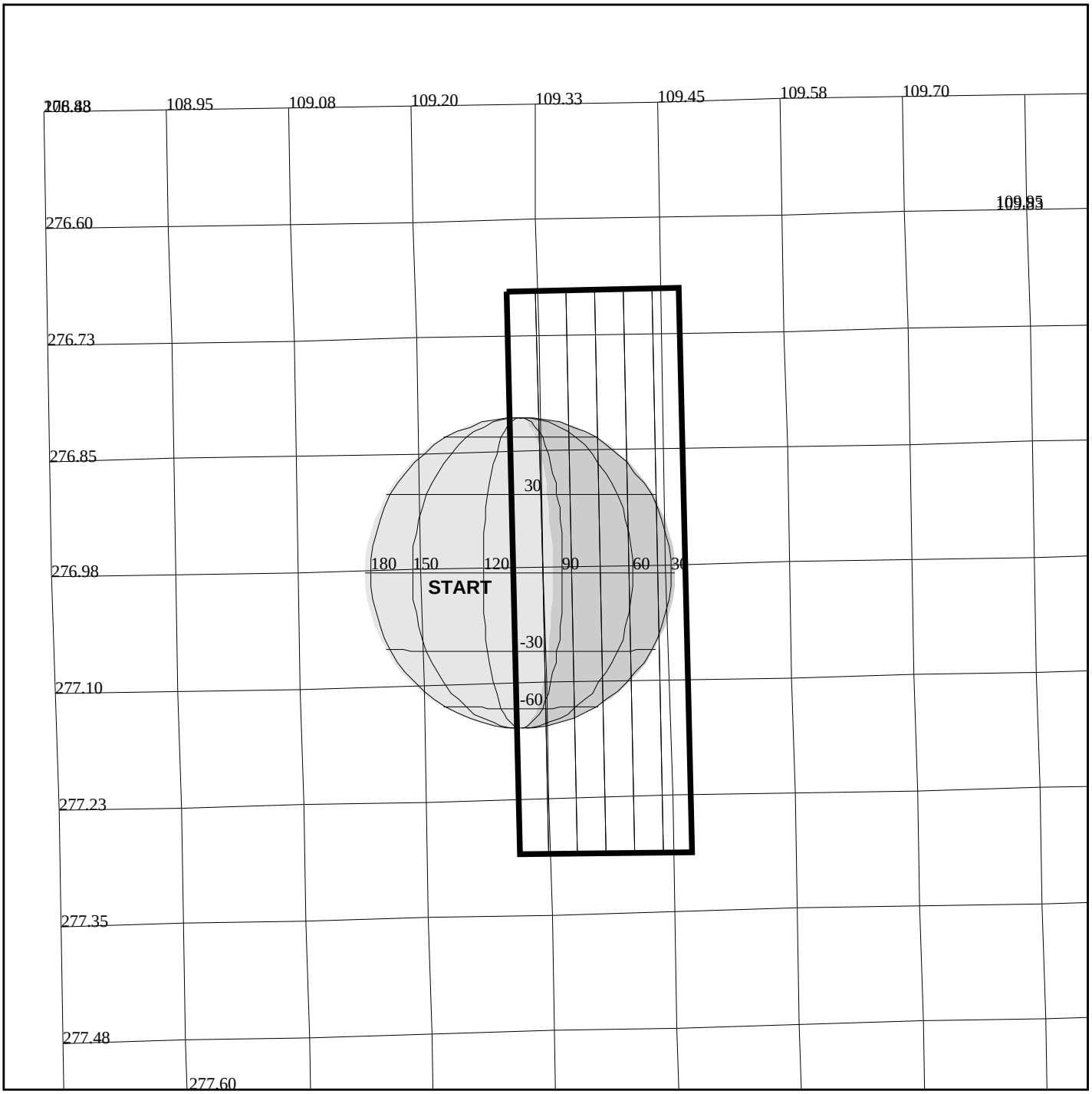
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

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.



165EZ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5434 TC= 3
A= 708 pD= 0 SR=17.450 RA50= 28.16 DEC50= 13.16 cone=109.30 clock=276.98
117EZ:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5434
1:#s= 1 Cs= 1.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 280 rD= 2

C9INVOLCAN01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-179/02:31:09.466 -CDS 291:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:C9INVOLCAN01 **DESCRIP:Io Volcan 1**

Monitoring of Selected Volcanic Regions ACTIVITY ID: C9INVOLCAN01-
START TIME: 97-178/21:31:52.133

Activity ID: Orbit C9 Target I Inst N OAPEL VOLCAN SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	06/27/97	Week 26
Start	IEE-CDS 00000296:00:0	97-178/21:31:52.133		IEE-000/04:59:17.333	
End	IEE-CDS 00000289:00:0	97-178/21:38:56.800		IEE-000/04:52:12.666	
Duration	00000007:00:0	000/00:07:04.667		000/00:07:04.667	

Top Label	C9INVOLCAN01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

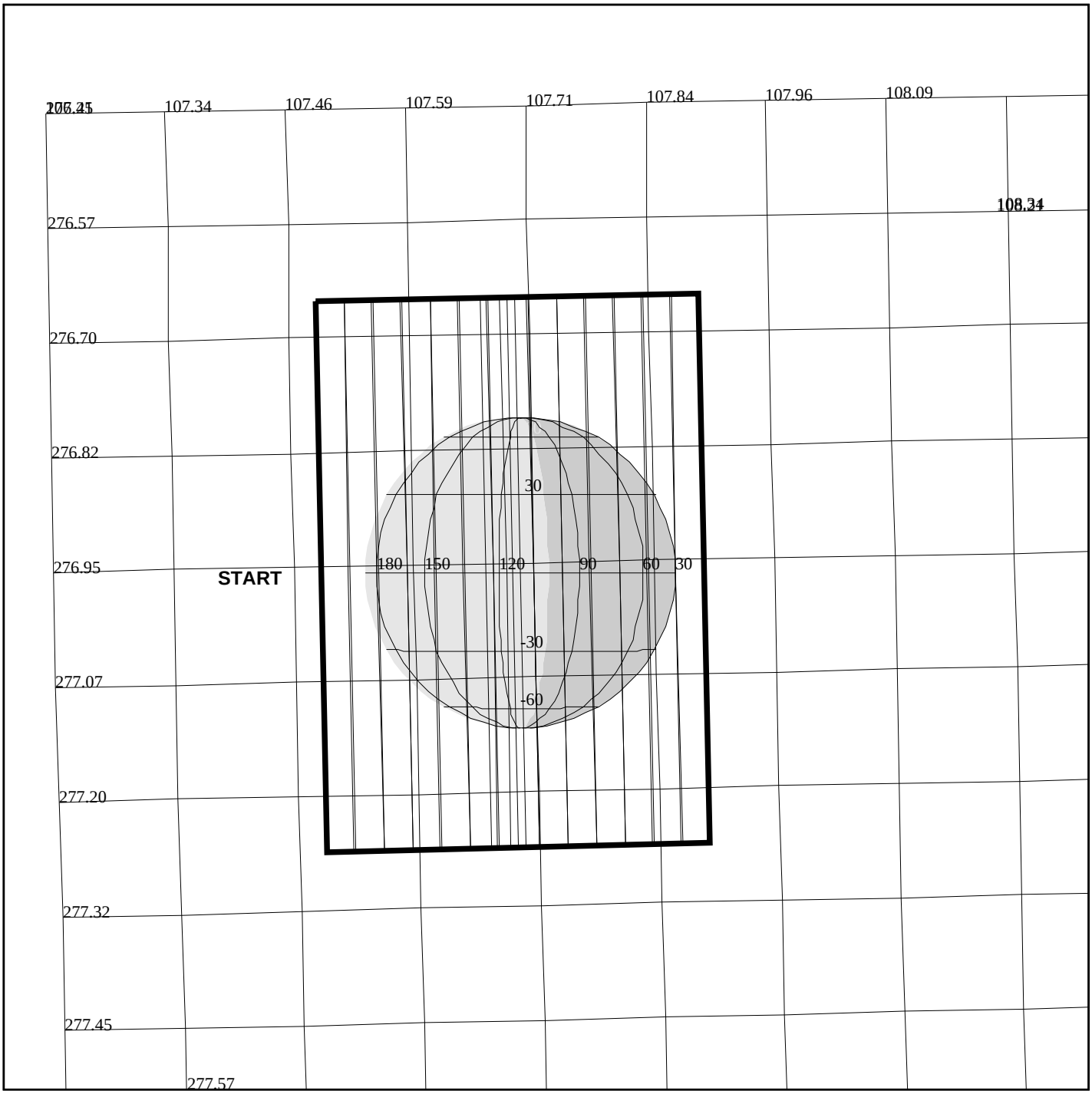
Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, LPU, C9ILMDK243C, C9ILMDK228D

Galileo Activity Plan Form 06/09/97 10:29:44 rev 6/95



165FB:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/5262 TC= 3
A= 728 pD= 756 SR=17.450 RA50= 29.89 DEC50= 13.82 cone=107.50 clock=276.96
117FB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5262
1:#s= 2 Cs= 3.60 XCs= 0.00 Cr= -0.50 XCr= 0.00 sD= 364 rD= 28

C9INCHEMIS03

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-179/02:31:09.466 -CDS 237:00:0 **BODY PLOT TIME:TARGET-TIME D= 756 S= 0.300**

OBSERVATION:C9INCHEMIS03 **DESCRIP:Io Chemis 3**

Monitoring of Io’s Dayside	ACTIVITY ID: C9INCHEMIS03- START TIME: 97-178/22:26:28.133

Activity ID: Orbit C9 Target I Inst N OAPEL CHEMIS SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	06/27/97 Week 26
Start	IEE-CDS 00000242:00:0	97-178/22:26:28.133			IEE-000/04:04:41.333
End	IEE-CDS 00000232:00:0	97-178/22:36:34.800			IEE-000/03:54:34.666
Duration	00000010:00:0	000/00:10:06.667			000/00:10:06.667

Top Label	C9INCHEMIS03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

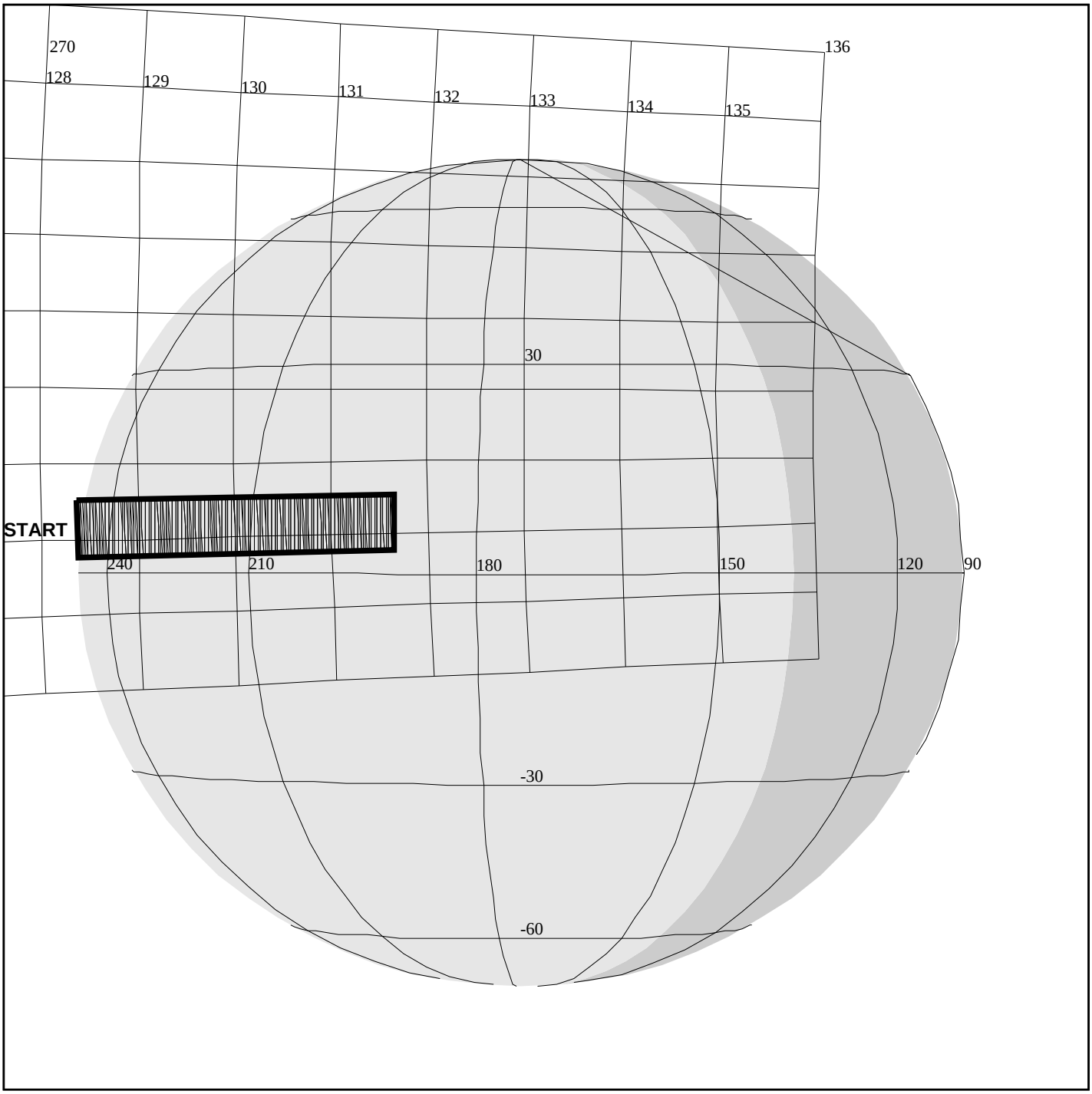
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, C9ILM243C, C9ILM228C

Galileo Activity Plan Form 06/09/97 10:29:44 rev 6/95



165FC:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/7992 TC= 1(6.5 249)
A= 728 pD= 0 SR=17.450 RA50= 10.20 DEC50= 6.01 cone=128.39 clock=276.84
117FC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7992
1:#s= 1 Cs= 55.00 XCs= 0.00 Cr= 0.00 XCr= 8.00 sD= 1510 rD= 2

C9JNFEA05701

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA05701

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 642:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA05701 **DESCRIP:Jup_Fea_trk_57_deg_phase_01**

Jupiter Ftr Trk 57 degrees Phase part 1 ACTIVITY ID: C9JNFEA05701-
START TIME: 97-178/22:41:38.132

Activity ID: Orbit C9 Target J Inst N OAPEL FEA057 SeqNo 01 -

Title	Jupiter Ftr Trk 57 degrees Phase part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System CDS Load ID Calendar Date 06/27/97 Week 26

Start	JEE+CDS 00000637:00:0	97-178/22:41:38.132	JEE+000/10:44:04.666
End	JEE+CDS 00000654:00:0	97-178/22:58:49.466	JEE+000/11:01:16.000
Duration	00000017:00:0	000/00:17:11.334	000/00:17:11.334

Top Label C9JNFEA05701-
Bottom Label

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

Observation Objective

One of 12 OAPELS constituting the feature tracks of the Hot Spot/Plume feature campaign. This is the first of four observations obtained on a rotation with phase angle approximately 57 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.
This observation acquired with hotspot/plume feature at the morning limb, assuming feature coordinates 6.5 degrees North latitude (planetographic) and nominally 263 degrees West longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best hotspot/plume candidate.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on hotspot/plume feature nominally near 263 degrees West longitude, 6.5 degrees North planetographic latitude.
Spacecraft distance 0.87 million KM, NIMS IFOV (NIMSel) = 435 KM;
2 X 1 mosaic covers 17400 X 8700 KM. About 200 seconds of scanning, accumulating 0.17966 MBTG in 19 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:44 rev 6/95

Jupiter Feature Track Window	**ACTIVITY ID: C9JNWINDOW02-** **START TIME: 97-178/23:56:27.466**

Activity ID: Orbit C9 Target J Inst N OAPEL WINDOW SeqNo 02 -

Title	**Jupiter Feature Track Window**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/27/97 Week 26**
Start	**JTD+CDS 00000692:00:0**	**97-178/23:56:27.466**			**JTD+000/11:39:41.333**
End	**JTD+CDS 00000920:00:0**	**97-179/03:46:59.466**			**JTD+000/15:30:13.333**
Duration	**00000228:00:0**	**000/03:50:32.000**			**000/03:50:32.000**

Top Label	**C9JNWINDOW02-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**0**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Jupiter feature track window.

Design Detail

Galileo Activity Plan Form	**06/09/97 10:29:44**	**rev 6/95**

NIMS Real-Time Software Reload	**ACTIVITY ID: C9NNRELOAD07-** **START TIME: 97-179/00:17:41.466**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 07 -

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

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JTD+CDS 00000713:00:0**	**97-179/00:17:41.466**		**JTD+000/12:00:55.333**	
End	**JTD+CDS 00000723:00:0**	**97-179/00:27:48.133**		**JTD+000/12:11:02.000**	
Duration	**00000010:00:0**	**000/00:10:06.667**		**000/00:10:06.667**	

Top Label	**C9NNRELOAD07-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

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

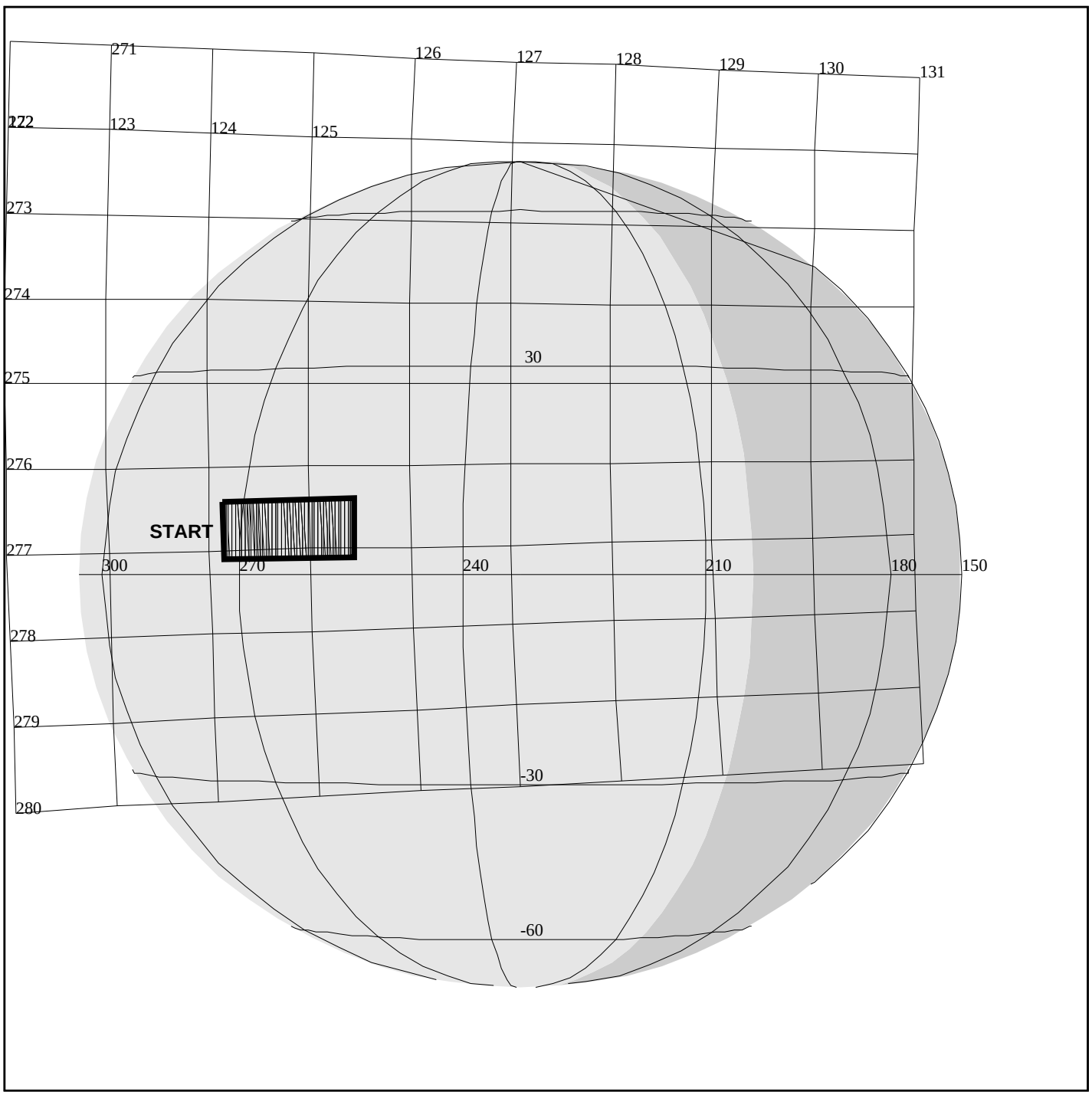
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

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	**06/09/97 10:29:44**	**rev 6/95**



165FF:TT= 0 TMC= 1 C= -11.00 XC= 0.00 BS= 0/7102 TC= 1(6.5 263)
A= 728 pD= 0 SR=17.450 RA50= 14.09 DEC50= 7.77 cone=124.15 clock=276.75
117FF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7102
1:#s= 1 Cs= 21.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNFEA05702

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA05702

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTD 97-178/12:16:46.133 +CDS 728:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA05702 **DESCRIP:Jup_Fea_trk_57_deg_phase_02**

Jupiter Ftr Trk 57 degrees Phase part 2 **ACTIVITY ID: C9JNFEA05702-**
START TIME: 97-179/00:28:48.799

Activity ID: Orbit C9 Target J Inst N OAPEL FEA057 SeqNo 02 -

Title	**Jupiter Ftr Trk 57 degrees Phase part 2 Instrument**		**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS Working Group**	**AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JTD+CDS 00000724:00:0**	**97-179/00:28:48.799**		**JTD+000/12:12:02.666**	
End	**JTD+CDS 00000732:00:0**	**97-179/00:36:54.133**		**JTD+000/12:20:08.000**	
Duration	**00000008:00:0**	**000/00:08:05.334**		**000/00:08:05.334**	

Top Label **C9JNFEA05702-**
Bottom Label

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

Observation Objective

One of 12 OAPELS constituting the feature tracks of the Hot Spot/Plume feature campaign. This is the second of four observations obtained on a rotation with phase angle approximately 57 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with Hot Spot/Plume feature near minimum airmass, assuming feature coordinates 8 degrees north latitude (planetographic) and nominally 249 degrees west longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume candidate.

Data Returned

Design Detail

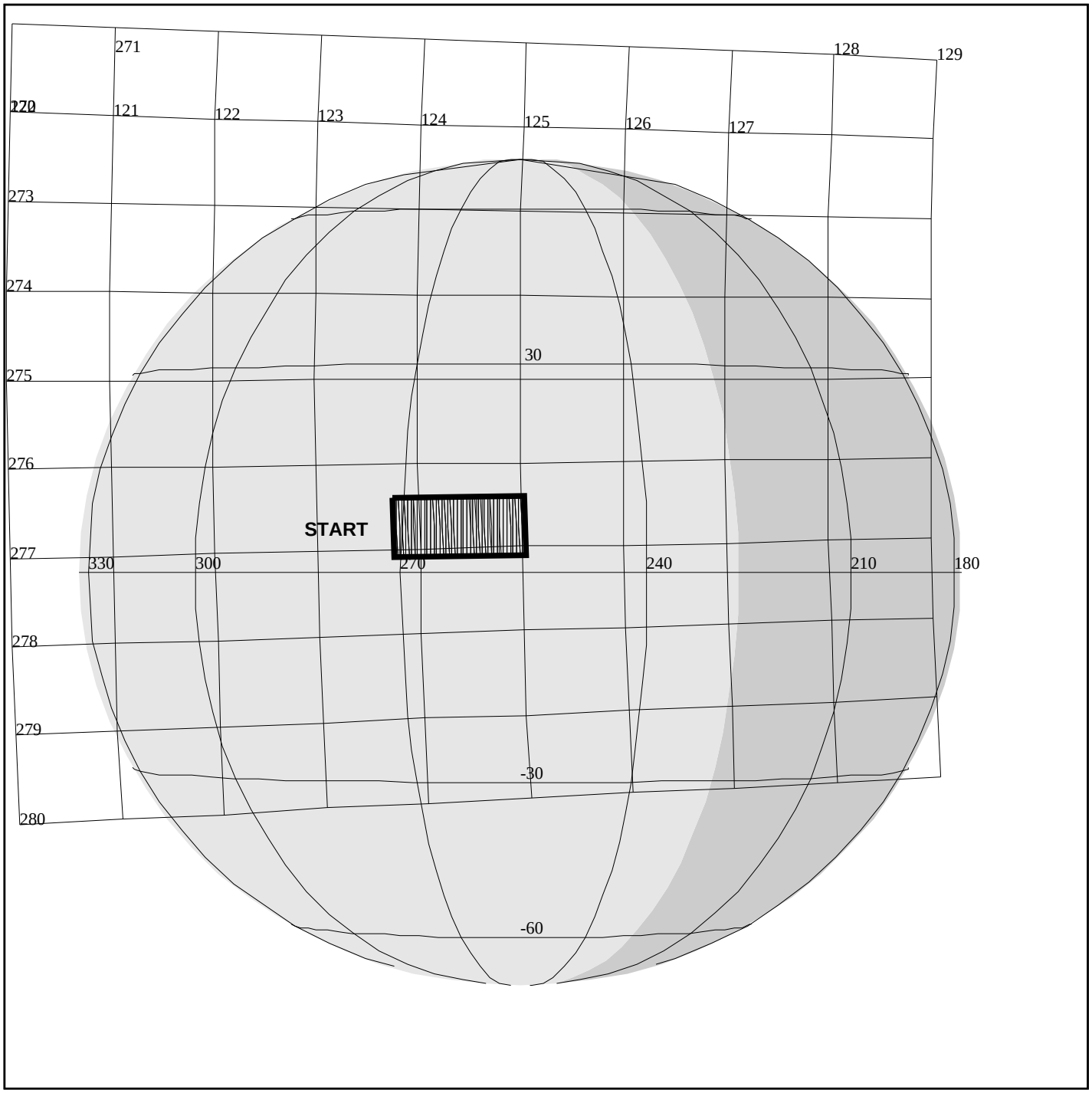
Short map, Nyquist-sampled observation of 2 X 1 (208X 10 mrad) area centered on Hot Spot/Plume feature nominally near 249 degrees west longitude, 8 degrees north planetographic latitude.
Spacecraft distance 0.85 million KM, NIMS IFOV (NIMSel) = 425 KM; 2 X 1 mosaic covers 17000 X 8500 KM. About 200 seconds of scanning, accumulating 0.17966 MBTG in 19 colors, and using 0.00672 tracks. Four rims reserved for targetting.

NOTE 5/15/97: Target coordinates changed to 263 degrees West longitude, 6.5 degrees North latitude to encompass both hotspot and plume head.

GANYMEDE’S shadow in the mosaic.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:44 rev 6/95**



165FG:TT= 0 TMC= 1 C= -11.00 XC= 0.00 BS= 0/4382 TC= 1(6.5 263)
A= 728 pD= 0 SR=17.450 RA50= 14.45 DEC50= 7.93 cone=123.75 clock=276.74
117FG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4382
1:#s= 1 Cs= 21.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNFEA05703

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA05703

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTD 97-178/12:16:46.133 +CDS 768:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA05703 **DESCRIP:Jup_Fea_trk_57_deg_phase_03**

Jupiter Ftr Trk 57 degrees Phase part 3 ACTIVITY ID: C9JNFEA05703-
START TIME: 97-179/01:08:14.799

Activity ID: Orbit C9 Target J Inst N OAPEL FEA057 SeqNo 03 -

Title	Jupiter Ftr Trk 57 degrees Phase part 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	Calendar Date 06/28/97 Week 26
Start	JTD+CDS 00000763:00:0	97-179/01:08:14.799	JTD+000/12:51:28.666
End	JTD+CDS 00000772:00:0	97-179/01:17:20.799	JTD+000/13:00:34.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label C9JNFEA05703-
Bottom Label

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

Observation Objective

One of 12 OAPELS constituting the feature tracks the of Hot Spot/Plume feature campaign. This is the third of four observations obtained on a rotation with phase angle approximately 57 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with Hot Spot/Plume feature near the central meridian, assuming feature coordinates 6.5 degrees north latitude (planetographic) and nominally 263 degrees west longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume candidate.

Data Returned

Design Detail

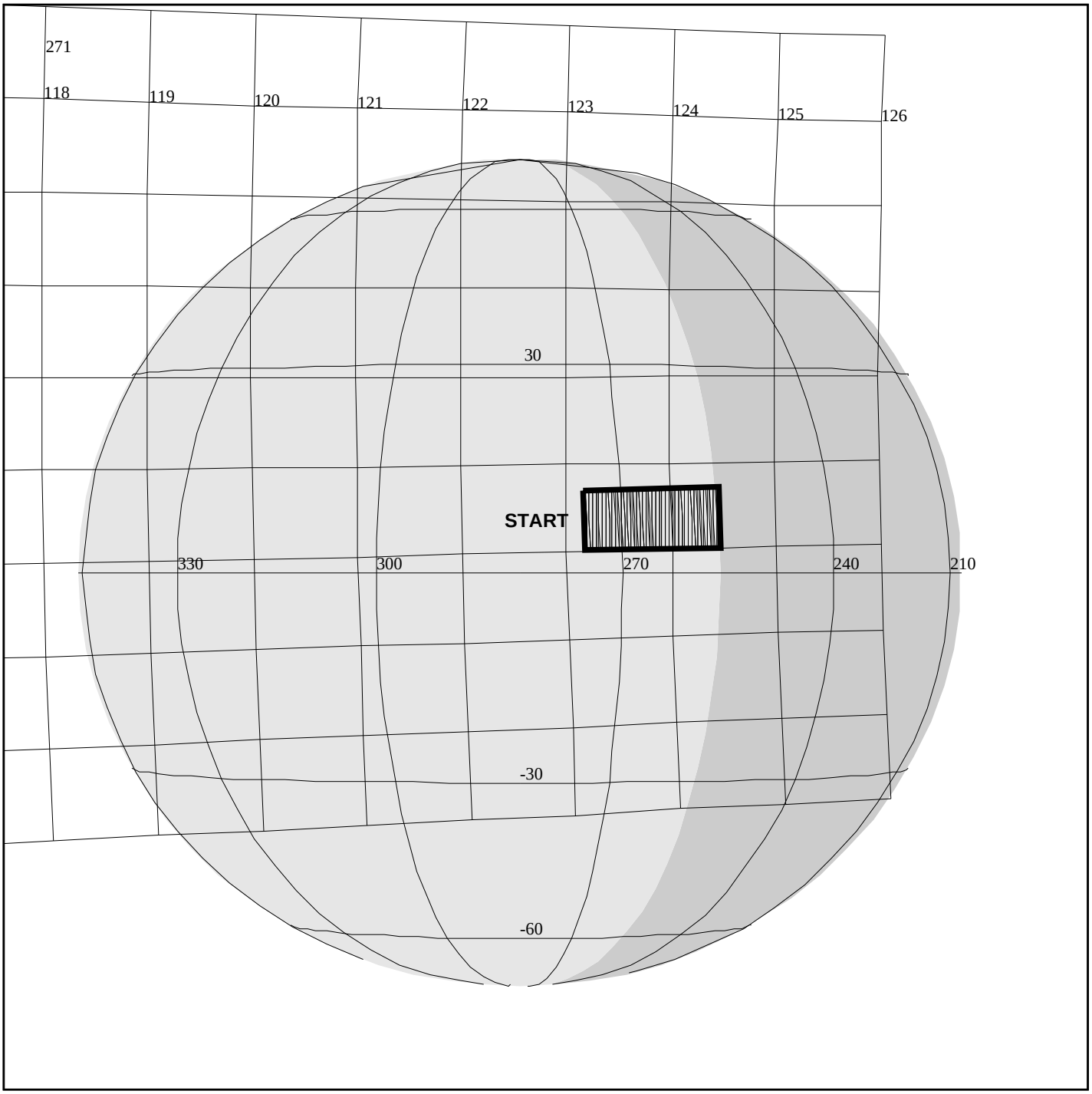
Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on Hot Spot/Plume feature nominally near 263 degrees west longitude, 6.5 degrees north planetographic latitude.
Spacecraft distance 0.86 million KM, NIMS IFOV (NIMSel) = 430 KM;
2 X 1 mosaic covers 17200 X 8600 KM. About 200 seconds of scanning, accumulating 0.17966 MBTG in 19 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

NOTE 5/15/97: Target coordinates changed to 263 degrees West longitude, 6.5 degrees north latitude, to encompass both hotspot and plume head.

GANYMEDE’S shadow in the mosaic.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:44 rev 6/95



165FH:TT= 0 TMC= 1 C= -32.00 XC= 0.00 BS= 0/3118 TC= 1(8 249)
A= 182 pD= 0 SR=17.450 RA50= 14.95 DEC50= 8.24 cone=123.17 clock=276.64
117FH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3118
1:#s= 1 Cs= 21.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNFEA05704

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA05704

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JTD 97-178/12:16:46.133 +CDS 816:00:0

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

OBSERVATION:C9JNFEA05704

DESCRIP:Jup_Fea_trk_57_deg_phase_04

Jupiter Ftr Trk 57 degrees Phase part 4 **ACTIVITY ID: C9JNFEA05704-**
START TIME: 97-179/01:57:47.466

Activity ID: Orbit C9 Target J Inst N OAPEL FEA057 SeqNo 04 -

Title	**Jupiter Ftr Trk 57 degrees Phase part 4**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group** **AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JTD+CDS 00000812:00:0**	**97-179/01:57:47.466**		**JTD+000/13:41:01.333**	
End	**JTD+CDS 00000820:34:0**	**97-179/02:06:15.466**		**JTD+000/13:49:29.333**	
Duration	**00000008:34:0**	**000/00:08:28.000**		**000/00:08:28.000**	

Top Label	**C9JNFEA05704-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

One of 12 OAPELS constituting the feature tracks the of Hot Spot/Plume feature campaign. This is the fourth of four observations obtained on a rotation with phase angle approximately 57 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with Hot Spot/Plume feature near the evening terminator, assuming feature coordinates 6.5 degrees north latitude (planetographic) and nominally 263 degrees west longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume candidate.

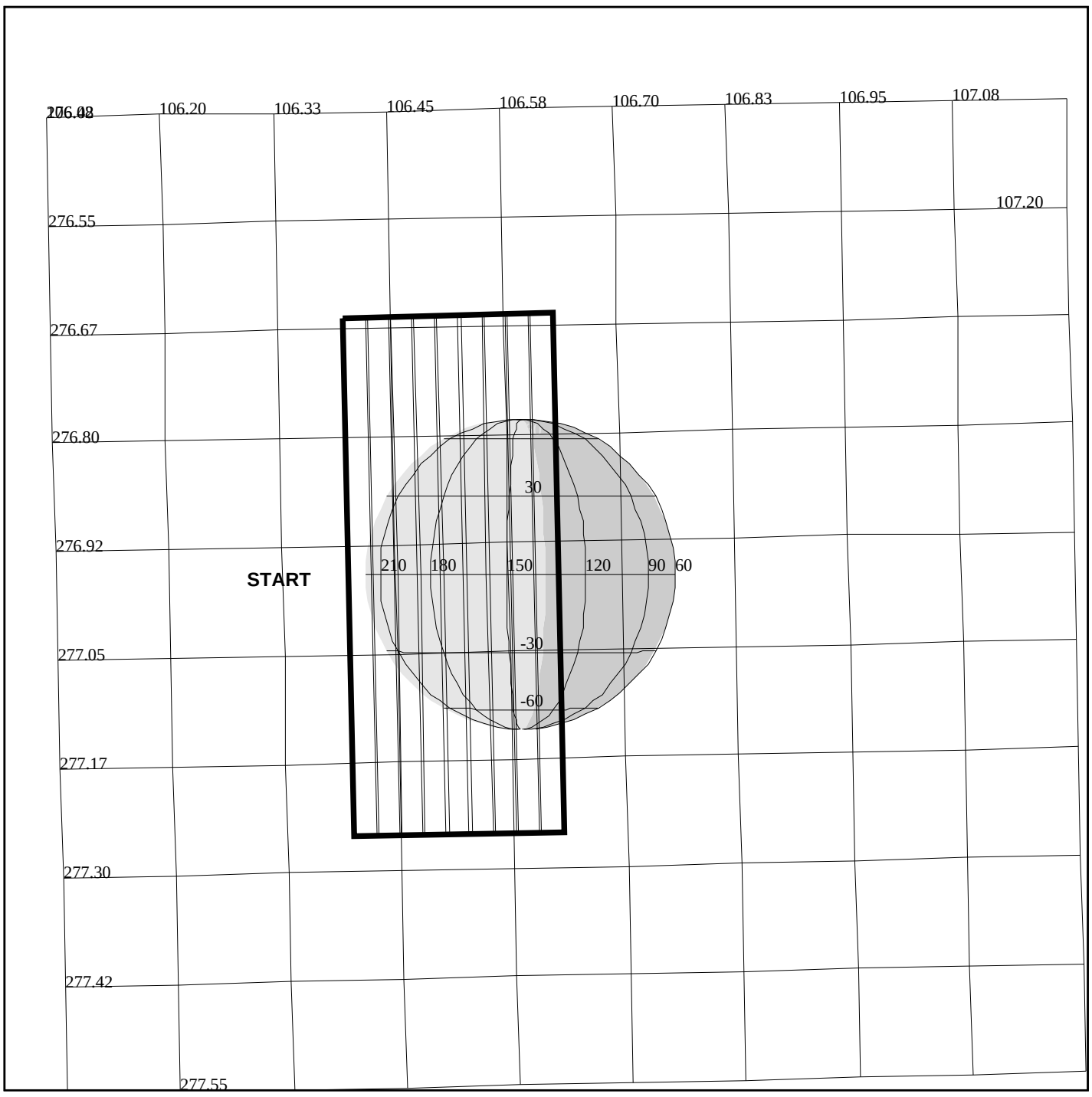
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on Hot Spot/Plume feature nominally near 263 degrees west longitude, 6.5 degrees north planetographic latitude.
Spacecraft distance 0.88 million KM, NIMS IFOV (NIMSel) = 440 KM;
2 X 1 mosaic covers 17600 X 8800 KM. About 200 seconds of scanning, accumulating 0.17966 MBTG in 19 colors, and using 0.00672 tracks.
One rim reserved for targetting, to accomodate PPR REGMAP02

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:44 rev 6/95**



165FI:TT= 0 TMC= 1 C= -3.20 XC= 0.00 BS= 0/8578 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 30.95 DEC50= 14.19 cone=106.41 clock=276.96
117FI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8578
1:#s= 1 Cs= 4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 454 rD= 2

C9INHRSPEC01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-179/02:31:09.466 +CDS 01:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:C9INHRSPEC01 **DESCRIP:Io High Res. Spec. 1**

High Spatial and Spectral obs. of Io	**ACTIVITY ID: C9INHRSPEC01-** **START TIME: 97-179/02:28:07.466**

Activity ID: Orbit C9 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	**High Spatial and Spectral obs. of Io**	**Instrument**	**NIMS**
Requestor	**NIMS-SWG/R.**	**Team**	**NIMS Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**IEE-CDS 00000003:00:0**	**97-179/02:28:07.466**		**IEE-000/00:03:02.000**	
End	**IEE+CDS 00000004:00:0**	**97-179/02:35:12.132**		**IEE+000/00:04:02.666**	
Duration	**00000007:00:0**	**000/00:07:04.666**		**000/00:07:04.666**	

Top Label	**C9INHRSPEC01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

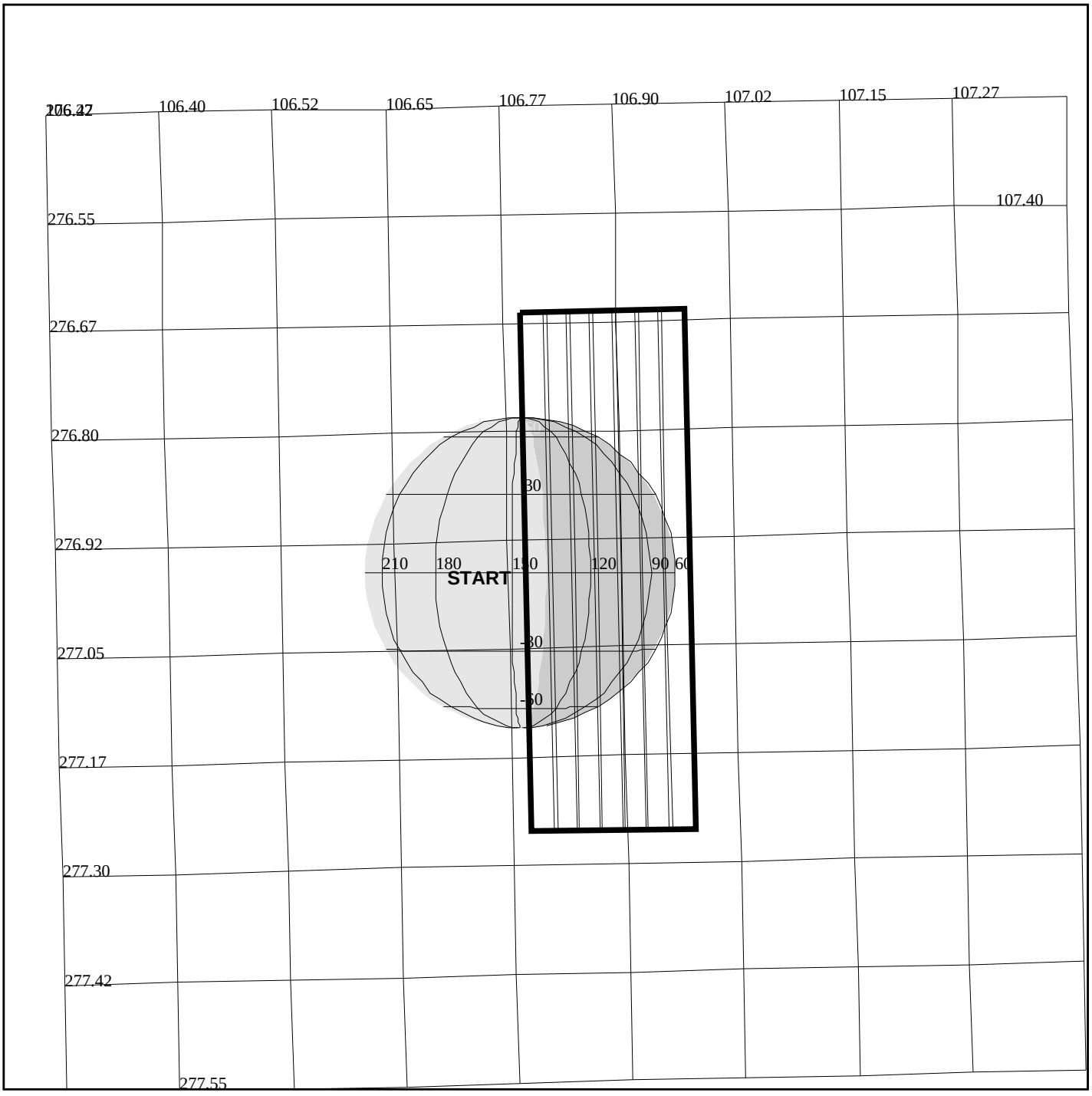
Mapping observation of Io’s dayside at high spatial and spectral resolutions. Objective is to search for both known and yet unknown spectral features.

Data Returned

Design Detail

Global mosaic in Long Map (408 wavelengths).

Long Map (LM), Gain 2, Grating Start 0, MPW, C9ILM442, C9ILM360



165FJ:TT= 0 TMC= 1 C= 0.25 XC= 0.00 BS= 0/0944 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 30.57 DEC50= 14.05 cone=106.80 clock=276.96
117FJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0944
1:#s= 1 Cs= 3.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

C9INNSPEC_01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9INNSPEC_01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-179/02:31:09.466 +CDS 14:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:C9INNSPEC_01 **DESCRIP:Io High Res. Nightside Spec. 1**

Nightside Spectra at High Resolution **ACTIVITY ID: C9INNSPEC 01-**
START TIME: 97-179/02:41:16.132

Activity ID: Orbit C9 Target I Inst N OAPEL NSPEC SeqNo 01 -

Title	**Nightside Spectra at High Resolution**	**Instrument**	**NIMS**
Requestor	**NIMS-SWG/R.**	**Team NIMS**	**Working Group SWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**IEE+CDS 00000010:00:0**	**97-179/02:41:16.132**		**IEE+000/00:10:06.666**	
End	**IEE+CDS 00000016:00:0**	**97-179/02:47:20.132**		**IEE+000/00:16:10.666**	
Duration	**00000006:00:0**	**000/00:06:04.000**		**000/00:06:04.000**	

Top Label	**C9INNSPEC 01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

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

Data Returned

Design Detail

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

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

Long Map (LM), Gain 4, Grating Start 0, MPW, C9ILM442, C9ILM360

Galileo Activity Plan Form **06/09/97 10:29:44 rev 6/95**

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NIMS Real-Time Software Reload	ACTIVITY ID: C9NNRELOAD08- START TIME: 97-179/04:28:26.799

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 08 -

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

Time System	CDS	Load ID	Calendar Date 06/28/97 Week 26
Start	JEE+CDS 00000980:00:0	97-179/04:28:26.799	JEE+000/16:30:53.333
End	JEE+CDS 00000990:00:0	97-179/04:38:33.466	JEE+000/16:41:00.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	C9NNRELOAD08-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

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

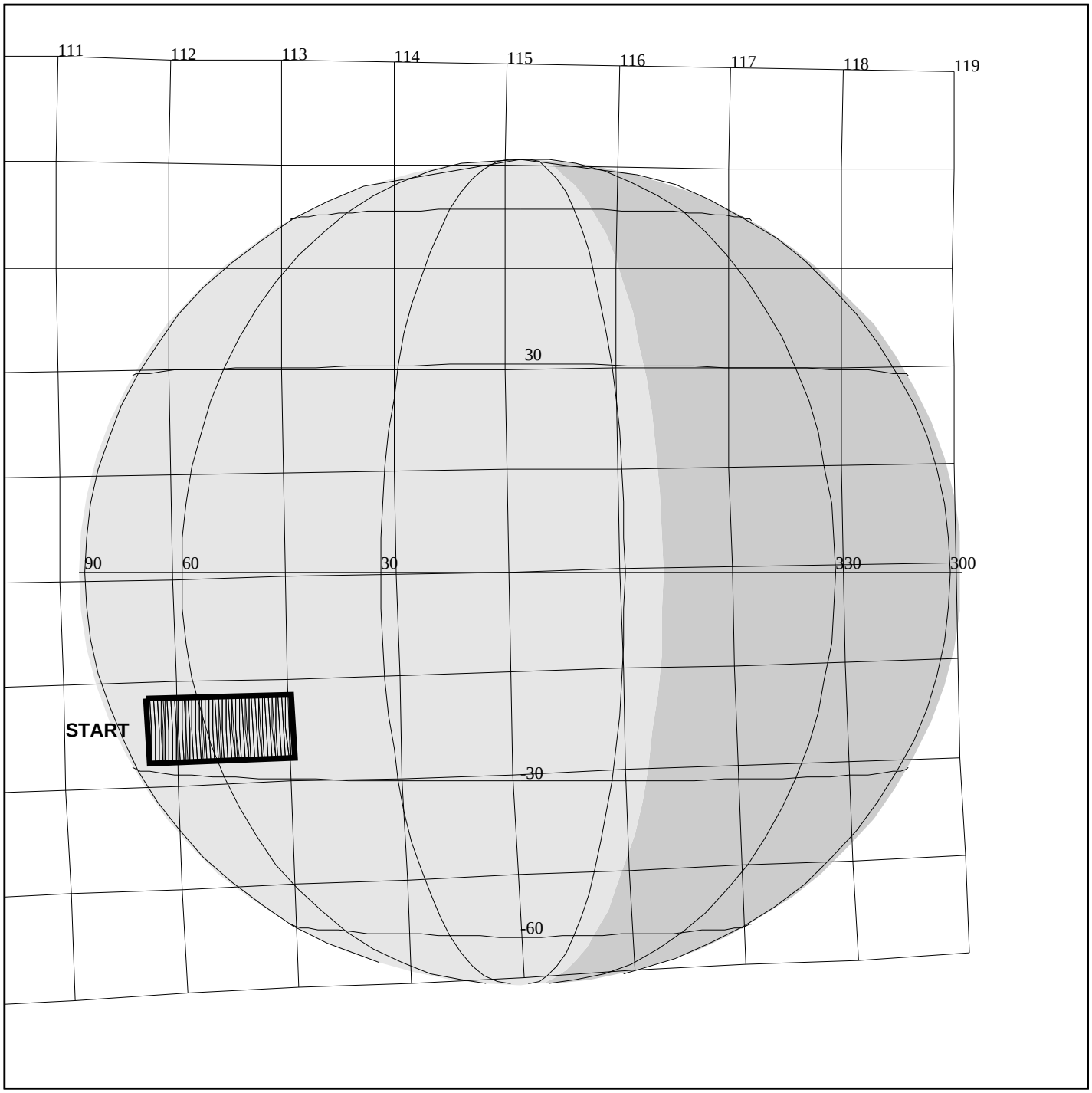
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

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 06/09/97 10:29:45 rev 6/95



165FK:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/2238 TC= 1(-23 69)
A= 556 pD= 0 SR=17.450 RA50= 26.32 DEC50= 11.01 cone=111.75 clock=278.46
117FK:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2238
1:#s= 1 Cs= 21.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS07501

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS07501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 995:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS07501 **DESCRIP:JUP_GREAT_RED_SPOT_75_DEG_01**

Jupiter Great Red Spot 75 degrees prt 1 **ACTIVITY ID: C9JNGRS07501-**
START TIME: 97-179/04:39:34.132

Activity ID: Orbit C9 Target J Inst N OAPEL GRS075 SeqNo 01 -

Title	**Jupiter Great Red Spot 75 degrees prt 1**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**

Start	**JEE+CDS 00000991:00:0**	**97-179/04:39:34.132**	**JEE+000/16:42:00.666**
End	**JEE+CDS 00000999:00:0**	**97-179/04:47:39.466**	**JEE+000/16:50:06.000**
Duration	**00000008:00:0**	**000/00:08:05.334**	**000/00:08:05.334**

Top Label	**C9JNGRS07501-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the first of three observations obtained on a rotation with phase angle approximately 75 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with Great Red Spot feature near the morning limb, assuming feature coordinates 23 degrees south latitude (planetographic) and nominally 69 degrees west longitude (System III).

Note: GRS07503 eliminated on 12/11/95 to accomodate UVS Torus observation.

Data Returned

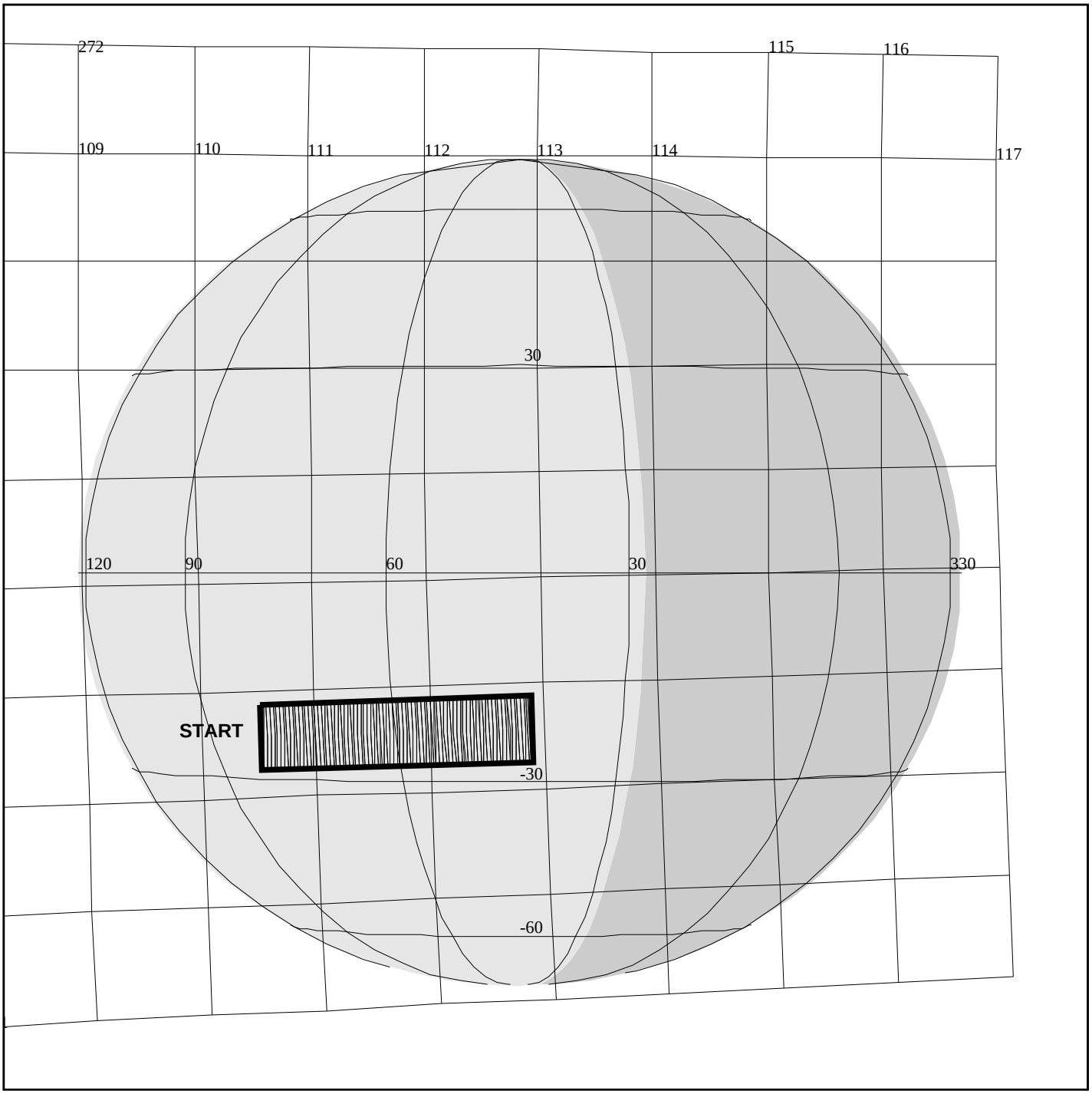
Design Detail

**Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.99 million KM, NIMS IFOV (NIMSel) = 495 KM; 2 X 1 mosaic covers 19800 X 9900 KM. About 200 seconds of scanning, accumulating 0.1454 MBTG in 15 colors, and using 0.00672 tracks. Four rims reserved for targetting.**

Note (5/6/97): GRS center longitude updated to 62 degrees West longitude. This observation, near the limb, covers 44 to 75 degrees W. longitude.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68B, C9JFT40A

Galileo Activity Plan Form **06/09/97 10:29:45 rev 6/95**



165FL:TT= 0 TMC= 1 C= -11.00 XC= 0.00 BS= 0/2066 TC= 1(-23 69)
A= 556 pD= 0 SR=17.450 RA50= 27.48 DEC50= 11.46 cone=110.52 clock=278.43
117FL:#SB= 1 OR= 0.200 RR=12.000 BM=F RC= 1 BS= 0/2066
1:#s= 1 Cs= 41.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS07502

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS07502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-178/11:57:33.466 +CDS 1049:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS07502 **DESCRIP:JUP_GREAT_RED_SPOT_75_DEG_03**

Jupiter Great Red Spot 75 degrees prt 2 ACTIVITY ID: C9JNGRS07502-
START TIME: 97-179/05:34:10.132

Activity ID: Orbit C9 Target J Inst N OAPEL GRS075 SeqNo 02 -

Title	Jupiter Great Red Spot 75 degrees prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	JEE+CDS 00001045:00:0	97-179/05:34:10.132		JEE+000/17:36:36.666	
End	JEE+CDS 00001053:00:0	97-179/05:42:15.466		JEE+000/17:44:42.000	
Duration	00000008:00:0	000/00:08:05.334		000/00:08:05.334	

Top Label	C9JNGRS07502-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the second of three observations obtained on a rotation with phase angle approximately 75 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with Great Red Spot feature near minimum airmass, assuming feature coordinates 23 degrees south latitude (planetographic) and nominally 69 degrees west longitude (System III).

Data Returned

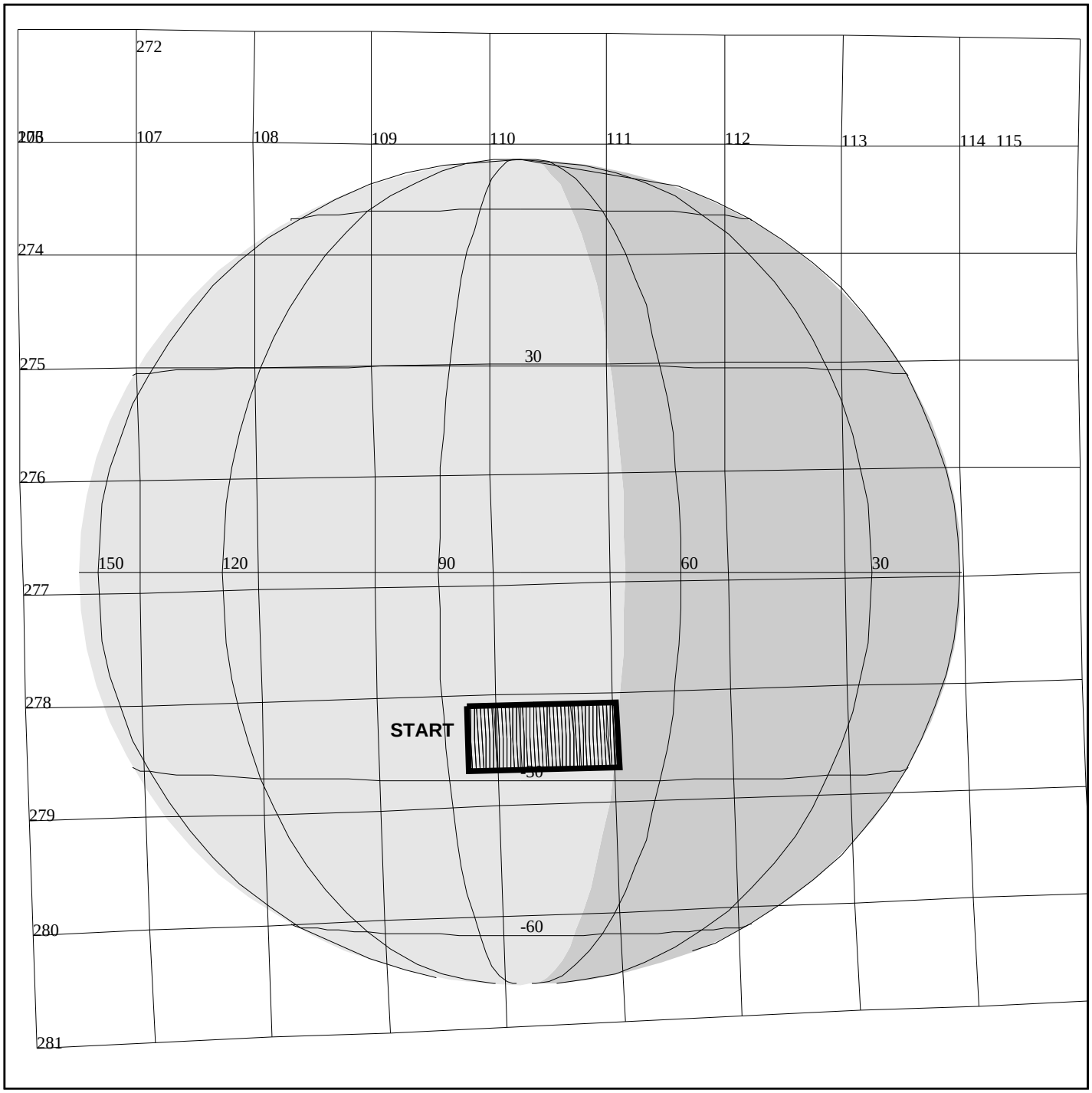
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 0.98 million KM, NIMS IFOV (NIMSel) = 490 KM; 2 X 1 mosaic covers 19600 X 9900 KM. About 200 seconds of scanning, accumulating 0.1454 MBTG in 15 colors, and using 0.00672 tracks. Four rims reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees West longitude. This observation covers 58 to 80 degrees W. longitude, i.e., Western half of the GRS.
NOTE 5/15/97: Scan rate increased to encompass 4 X 1 area, in order to acquire the eastern side of the GRS including some of the interaction between the colliding small white oval and GRS.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68B, C9JFT40A

Galileo Activity Plan Form 06/09/97 10:29:45 rev 6/95



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A= 546 pD= 0 SR=17.450 RA50= 28.19 DEC50= 11.77 cone=109.76 clock=278.38
117FN:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3714
1:#s= 1 Cs= 21.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS07504

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS07504

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1113:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS07504 **DESCRIP:JUP_GREAT_RED_SPOT_75_DEG_03**

Jupiter Great Red Spot 75 degrees prt 4 ACTIVITY ID: C9JNGRS07504-
START TIME: 97-179/06:38:52.799

Activity ID: Orbit C9 Target J Inst N OAPEL GRS075 SeqNo 04 -

Title	Jupiter Great Red Spot 75 degrees prt 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 06/28/97 Week 26
Start	JEE+CDS 00001109:00:0	97-179/06:38:52.799	JEE+000/18:41:19.333
End	JEE+CDS 00001117:07:0	97-179/06:47:02.799	JEE+000/18:49:29.333
Duration	00000008:07:0	000/00:08:10.000	000/00:08:10.000

Top Label C9JNGRS07504-
Bottom Label

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

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the third of three observations obtained on a rotation with phase angle approximately 75 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with Great Red Spot feature near the evening terminator, assuming feature coordinates 23 degrees south latitude (planetographic) and nominally 69 degrees west longitude (System III).

Data Returned

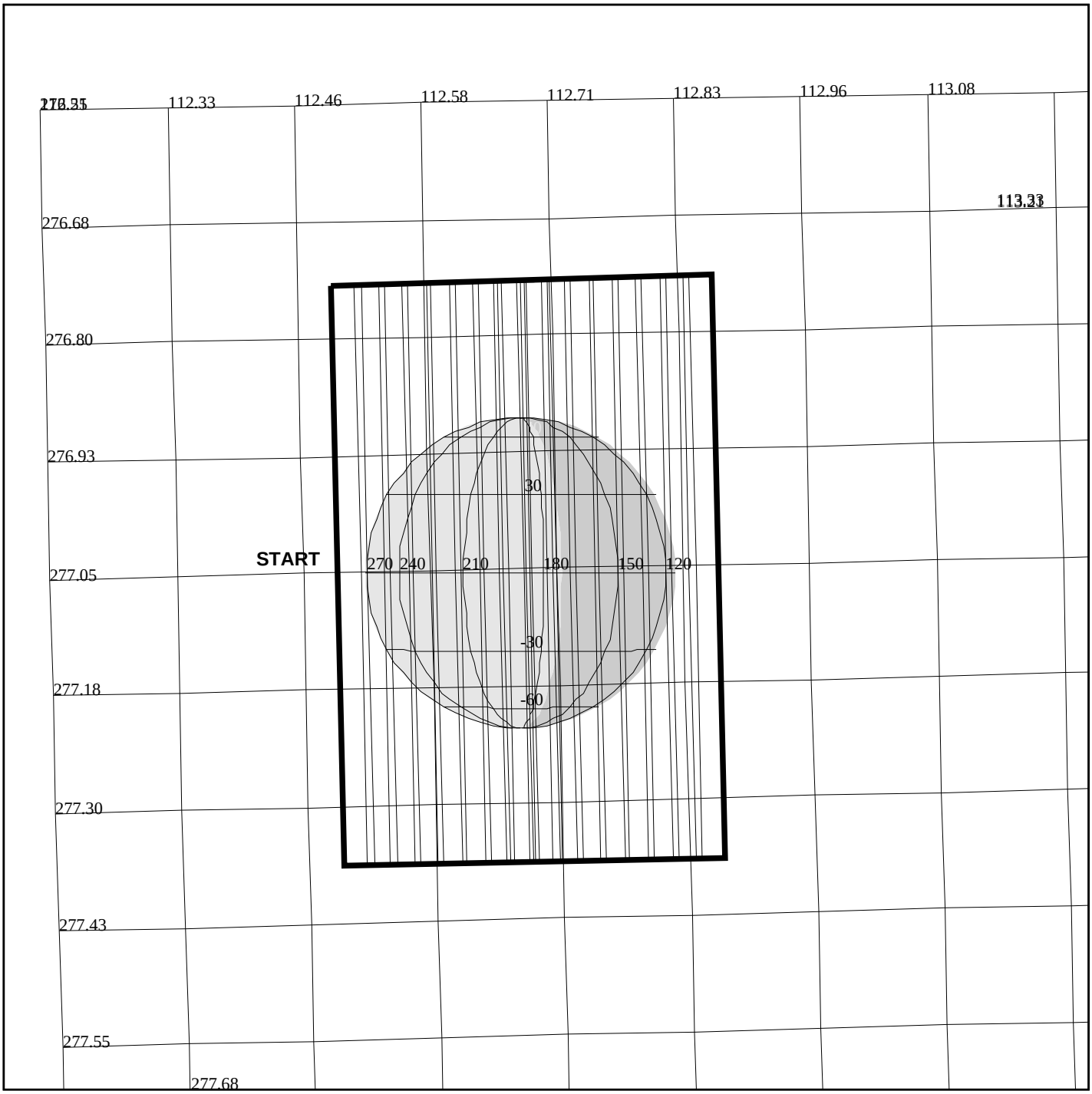
Design Detail

Short map Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 1.00 million KM, NIMS IFOV (NIMSel) = 500 KM;
2 X 1 mosaic covers 20000 X 10000 KM. About 200 seconds of scanning, accumulating 0.1454 MBTG in 15 colors, and using 0.00672 tracks.
Three rims reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees West longitude. This observation covers 65 to 85 degrees W. longitude, i.e., Western half of the GRS.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68B, C9JFT40A

Galileo Activity Plan Form 06/09/97 10:29:45 rev 6/95



165FO:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/6444 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 25.13 DEC50= 11.96 cone=112.50 clock=277.06
117FO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6444
1:#s= 2 Cs= 4.30 XCs= 0.00 Cr= -0.50 XCr= 0.00 sD= 438 rD= 28

C9INCHEMIS04

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9INCHEMIS04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-179/02:31:09.466 +CDS 264:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300**

OBSERVATION:C9INCHEMIS04 **DESCRIP:Io Chemis 4**

Monitoring of Io’s Dayside	ACTIVITY ID: C9INCHEMIS04- START TIME: 97-179/06:53:02.132

Activity ID: Orbit C9 Target I Inst N OAPEL CHEMIS SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	IEE+CDS 00000259:00:0	97-179/06:53:02.132		IEE+000/04:21:52.666	
End	IEE+CDS 00000269:00:0	97-179/07:03:08.799		IEE+000/04:31:59.333	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	C9INCHEMIS04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

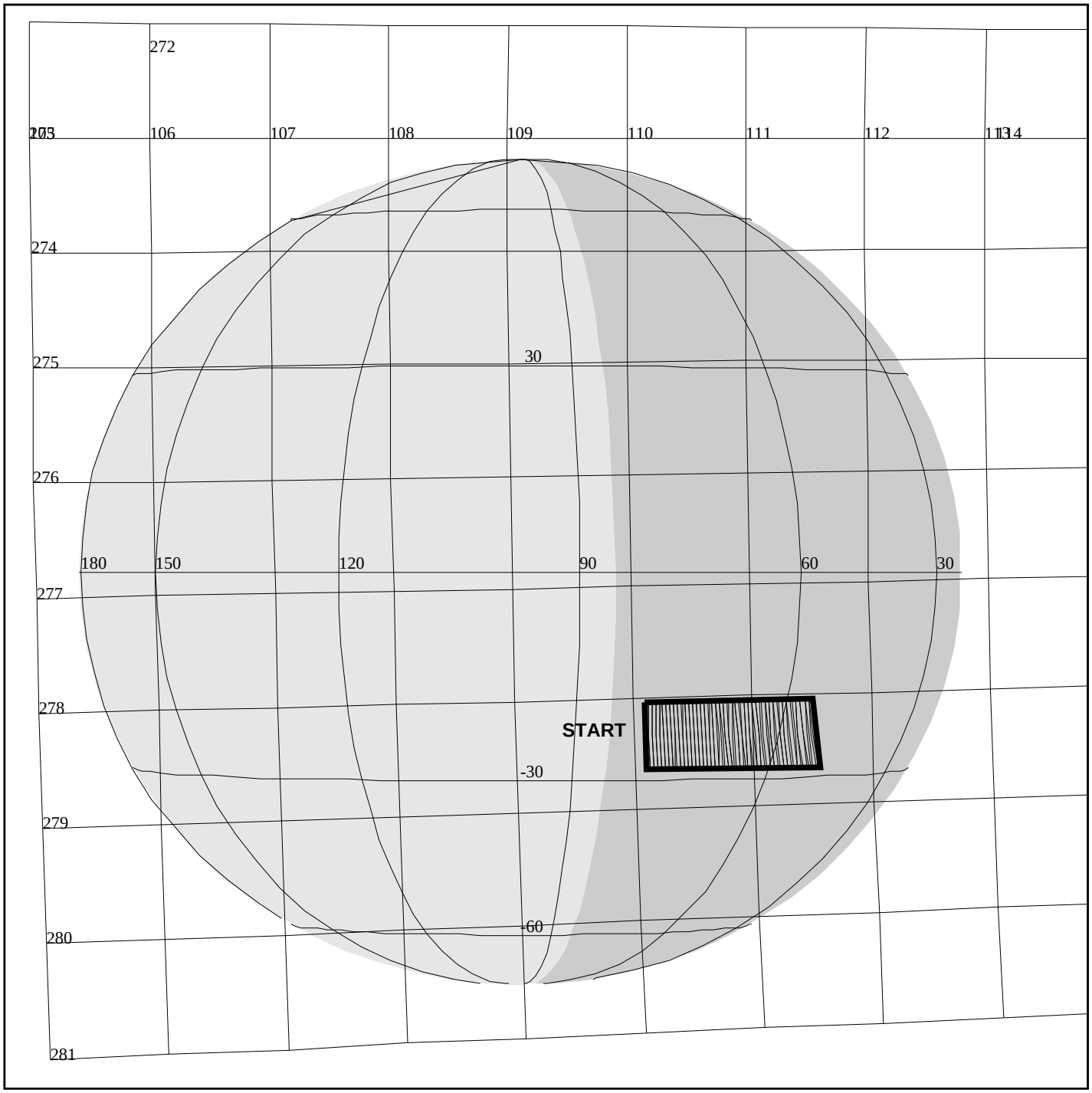
Design Detail

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

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

Long Map (LM), Gain 2, Grating Start 0, LPU, C9ILM243C, C9ILM228C

Galileo Activity Plan Form 06/09/97 10:29:45 rev 6/95



165FP:TT= 0 TMC= 1 C= -11.50 XC= 0.00 BS= 0/9174 TC= 1(-23 69)
A= 546 pD= 0 SR=17.450 RA50= 27.86 DEC50= 11.69 cone=110.10 clock=278.34
117FP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9174
1:#s= 2 Cs= 21.80 XCs= 0.00 Cr= -22.90 XCr= 0.00 sD= 2184 rD= 364

C9JNGRS53M01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS53M01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1143:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS53M01 **DESCRIP:JUP_GRS_5_AND_3_MICRON_MAP**

Jupiter Great Red Spot 5 and 3 Microns ACTIVITY ID: C9JNGRS53M01-
START TIME: 97-179/07:09:02.799

Activity ID: Orbit C9 Target J Inst N OAPEL GRS53M SeqNo 01 -

Title	Jupiter Great Red Spot 5 and 3 Microns	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 06/28/97 Week 26
Start	JEE+CDS 00001138:76:0	97-179/07:09:02.799	JEE+000/19:11:29.333
End	JEE+CDS 00001170:00:0	97-179/07:40:33.466	JEE+000/19:43:00.000
Duration	00000031:15:0	000/00:31:30.667	000/00:31:30.667

Top Label C9JNGRS53M01-
Bottom Label

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

Observation Objective

High spectral resolution 5-micron and 3-micron night-time maps of trace species within the Great Red Spot 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 69 degrees west longitude (System III), 23 degrees south planetographic latitude, is observed near 30 degrees relative longitude during the phase angle approximately 75 degrees rotation. The feature is first scanned in the 157 wavelengths specified by NIMS wavelength table J35157. The second scan is a 3-micron map using 80 wavelengths specified by wavelength table J3M80B, spanning the wavelength range 2.50 - 3.44 microns.

Data Returned

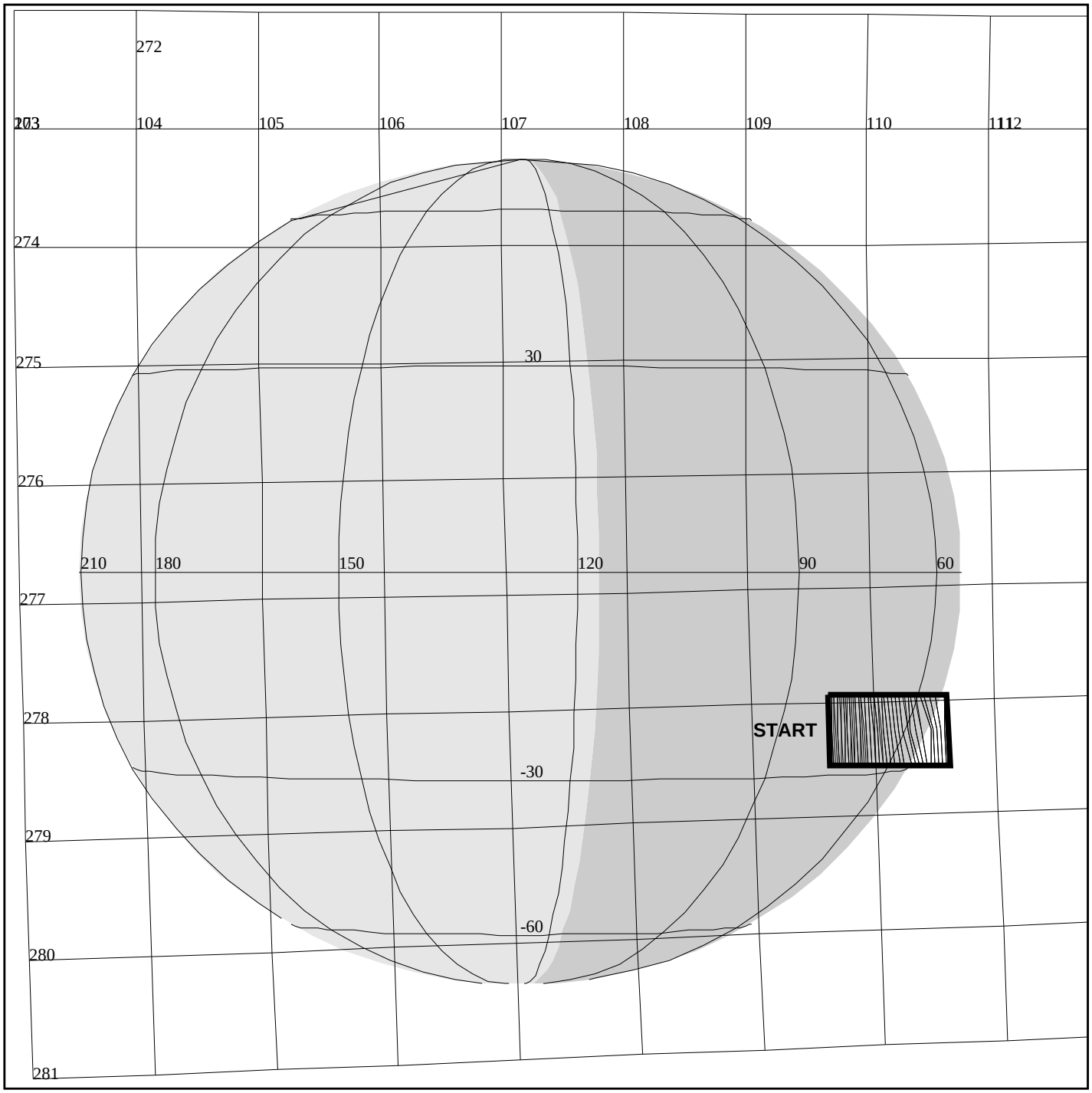
Design Detail

Two long map, Nyquist-sampled observations of 2 X 1 (20 X 10 mrad) area centered on the campaign feature. Spacecraft distance about 1.03 million KM, map covers 20600 X 10300 KM. Each observation encompasses about 12 minutes of scanning, including reposition slew, accumulating 0.72510 MBTG and using 0.02419 tracks. Three 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 dlew between scans. SCIREC #1 stops at end of first scan. SCIREC #2 starts at beginning of subsequent scan.

Note (5/6/97): GRS center longitude updated to 62 degrees West longitude. Observation covers 54 to 80 degrees W. longitude.
Note: All data transmitted using J35157. Only first scan was recorded and returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9J35157, C9J35157

Galileo Activity Plan Form 06/09/97 10:29:45 rev 6/95 f



165FR:TT= 0 TMC= 1 C= -7.00 XC= 0.00 BS= 0/8638 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50= 28.26 DEC50= 11.93 cone=109.64 clock=278.25
117FR:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/8638
1:#s= 1 Cs= 10.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1638 rD= 2

C9JNGRS5UM01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS5UM01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1195:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS5UM01 **DESCRIP:JUP_GREAT_RED_SPOT_5_MICRON_MAP**

Jupiter Great Red Spot 5 Micron Map	**ACTIVITY ID: C9JNGRS5UM01-** **START TIME: 97-179/08:00:46.799**

Activity ID: Orbit C9 Target J Inst N OAPEL GRS5UM SeqNo 01 -

Title	**Jupiter Great Red Spot 5 Micron Map**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001190:00:0**	**97-179/08:00:46.799**		**JEE+000/20:03:13.333**	
End	**JEE+CDS 00001204:00:0**	**97-179/08:14:56.132**		**JEE+000/20:17:22.666**	
Duration	**00000014:00:0**	**000/00:14:09.333**		**000/00:14:09.333**	

Top Label	**C9JNGRS5UM01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

High spectral resolution 5-micron night-time map of trace species within the Great Red Spot campaign feature. This is the second 5-um map obtained during the 75 degree phase angle rotation, the other having been obtained during OAPEL C9JNGRS53M01-. The campaign feature, centered at 69 degrees west longitude (System III), 23 degrees south planetographic latitude, observed near 60 degrees emission angle during the phase angle approximately 75 degrees rotation. The feature is scanned in the 157 wavelengths specified by NIMS wavelength table J35157: 4.28 - 5.22 microns.

Data Returned

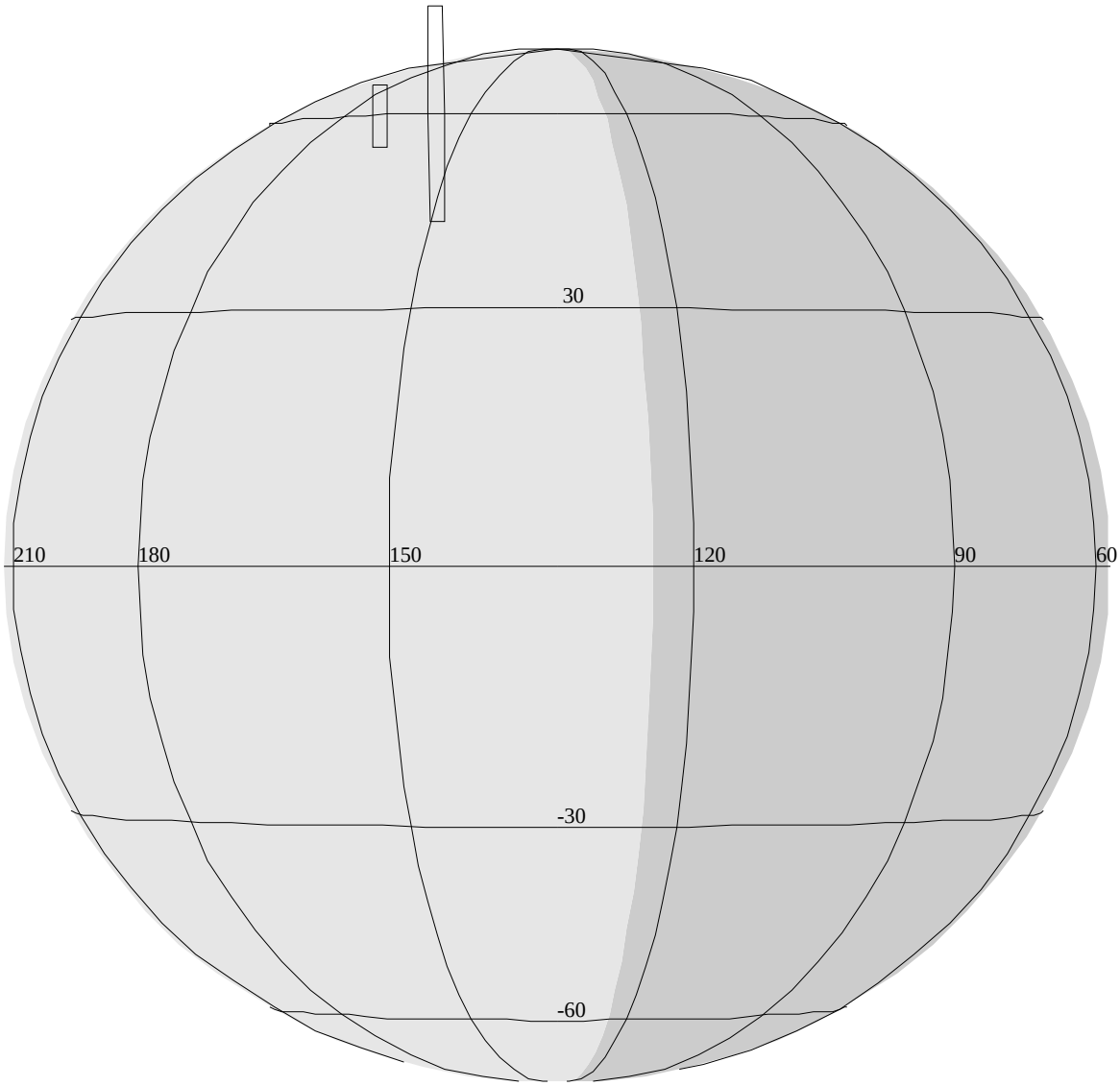
Design Detail

Long map, Nyquist-sampled observation of 1.5 X 1 (15 X 10 mrad) area centered on the Great Red Spot campaign feature. Spacecraft distance 1.07 million KM, map covers 16050 X 10700 KM at 535 IFOV resolution. About 9 minutes of scanning, accumulating 0.5499 MBTG and using 0.01834 tracks. Four rims reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees West longitude. Limb observation covers 46 to 80 degrees W. longitude.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9J35157, C9J35157

Galileo Activity Plan Form 06/09/97 10:29:45 rev 6/95



165AQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0640 TC= 1(60 170)
A= 182 pD= 0 SR=17.450 RA50= 30.60 DEC50= 17.39 cone=105.60 clock=273.72
165AR:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6100 TC= 1(60 190)
A= 182 pD= 0 SR=17.450 RA50= 31.73 DEC50= 17.77 cone=104.46 clock=273.75

C9JNAURMAP03

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JUAURMAP04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:UVS 10 :UVS 1

START:JEE 97-178/11:57:33.466 +CDS 1206:00:0

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

OBSERVATION:C9JUAURMAP04

DESCRIP:Auroral_Asymmetry_Map

NIMS Ride Along with UVS	**ACTIVITY ID: C9JNAURMAP03+** **START TIME: 97-179/08:37:10.799**

Activity ID: Orbit C9 Target J Inst N OAPEL AURMAP SeqNo 03 +

Title	**NIMS Ride Along with UVS**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001226:00:0**	**97-179/08:37:10.799**		**JEE+000/20:39:37.333**	
End	**JEE+CDS 00001234:00:0**	**97-179/08:45:16.132**		**JEE+000/20:47:42.666**	
Duration	**00000008:00:0**	**000/00:08:05.333**		**000/00:08:05.333**	

Top Label	**C9JNAURMAP03+**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**40**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Southern auroral map of dayside/nightside between 175-130 longitudes.
Observe color ratios for H2 band particle energies.

Data Returned

Design Detail

Ride-along with UVS (C9JUAURMAP04).
Select 3 RIMS of real-time data.

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

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

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NIMS Real-Time Software Reload	**ACTIVITY ID: C9NNRELOAD09-** **START TIME: 97-179/08:46:16.799**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 09 -

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

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001235:00:0**	**97-179/08:46:16.799**		**JEE+000/20:48:43.333**	
End	**JEE+CDS 00001245:00:0**	**97-179/08:56:23.466**		**JEE+000/20:58:50.000**	
Duration	**00000010:00:0**	**000/00:10:06.667**		**000/00:10:06.667**	

Top Label	**C9NNRELOAD09-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

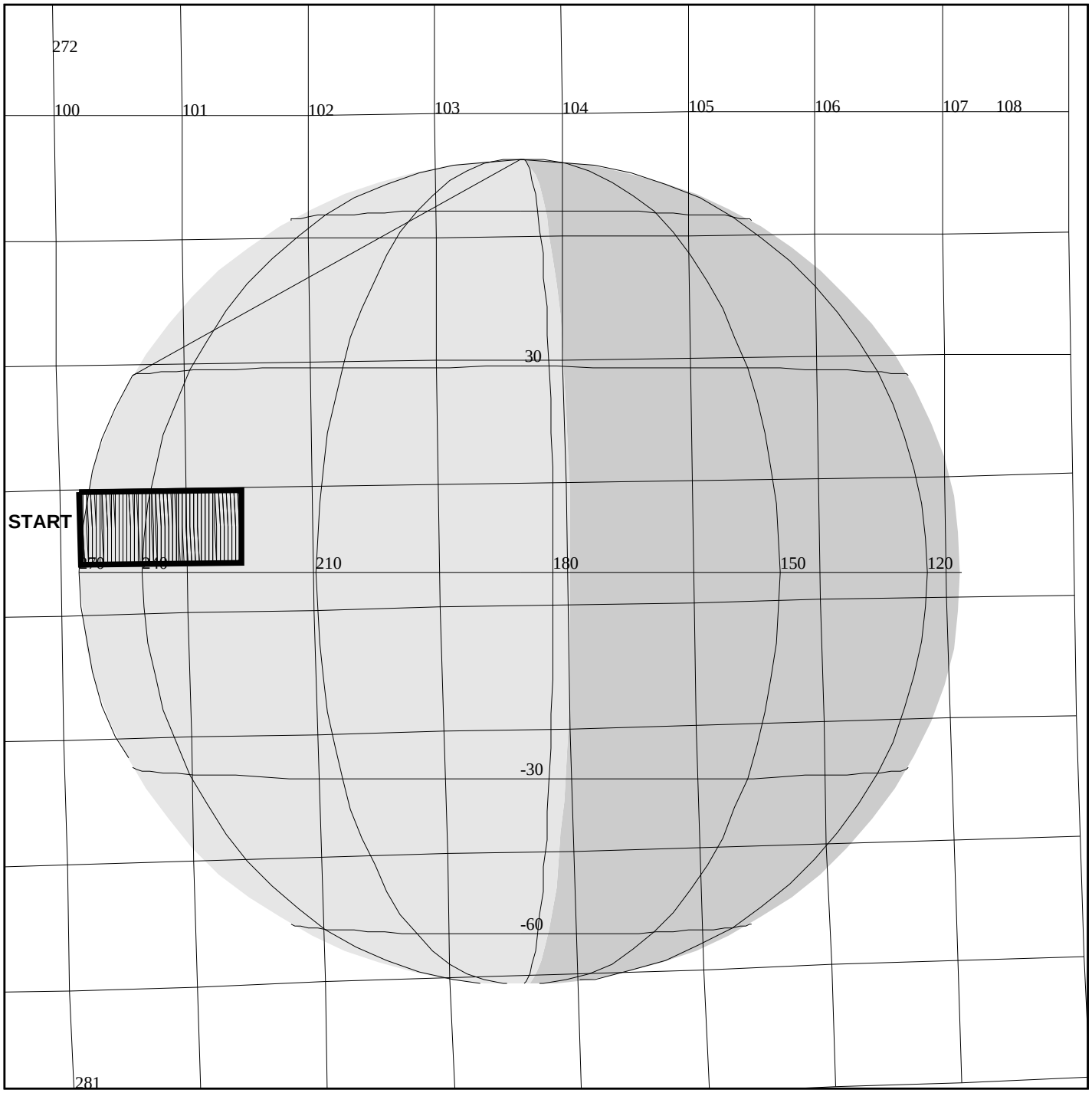
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

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.



165FS:TT= 0 TMC= 1 C= -4.50 XC= 0.00 BS= 0/6656 TC= 1(6.5 249)
A= 364 pD= 0 SR=17.450 RA50= 36.84 DEC50= 16.85 cone=100.17 clock=276.30
117FS:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6656
1:#s= 1 Cs= 21.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNFEA08501

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA08501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1294:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA08501 **DESCRIP:Jup_Fea_trk_85_deg_phase_01**

Jupiter Ftr Trk 85 degrees Phase part 1 ACTIVITY ID: C9JNFEA08501-
START TIME: 97-179/09:42:55.466

Activity ID: Orbit C9 Target J Inst N OAPEL FEA085 SeqNo 01 -

Title	Jupiter Ftr Trk 85 degrees Phase part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	JEE+CDS 00001291:02:0	97-179/09:42:55.466		JEE+000/21:45:22.000	
End	JEE+CDS 00001298:06:0	97-179/09:50:02.799		JEE+000/21:52:29.333	
Duration	00000007:04:0	000/00:07:07.333		000/00:07:07.333	

Top Label	C9JNFEA08501-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 12 OAPELS constituting the feature tracks the Hot Spot/Plume feature campaign. This is the first of four observations obtained on a rotation with phase angle approximately 85 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A.
This observation acquired with Hot Spot/Plume feature at the morning limb, assuming feature coordinates 6.5 degrees north latitude (planetographic) and nominally 263 degrees west longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume coordinate.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on Hot Spot/Plume feature nominally near 263 degrees west longitude, 6.5 degrees north planetographic latitude.
Spacecraft distance 1.1 million KM, NIMS IFOV (NIMSel) = 550 KM;
2 X 1 mosaic covers 22000 X 11000 KM. About 200 seconds of scanning, accumulating 0.1454 MBTG in 15 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68B, C9JFT40A

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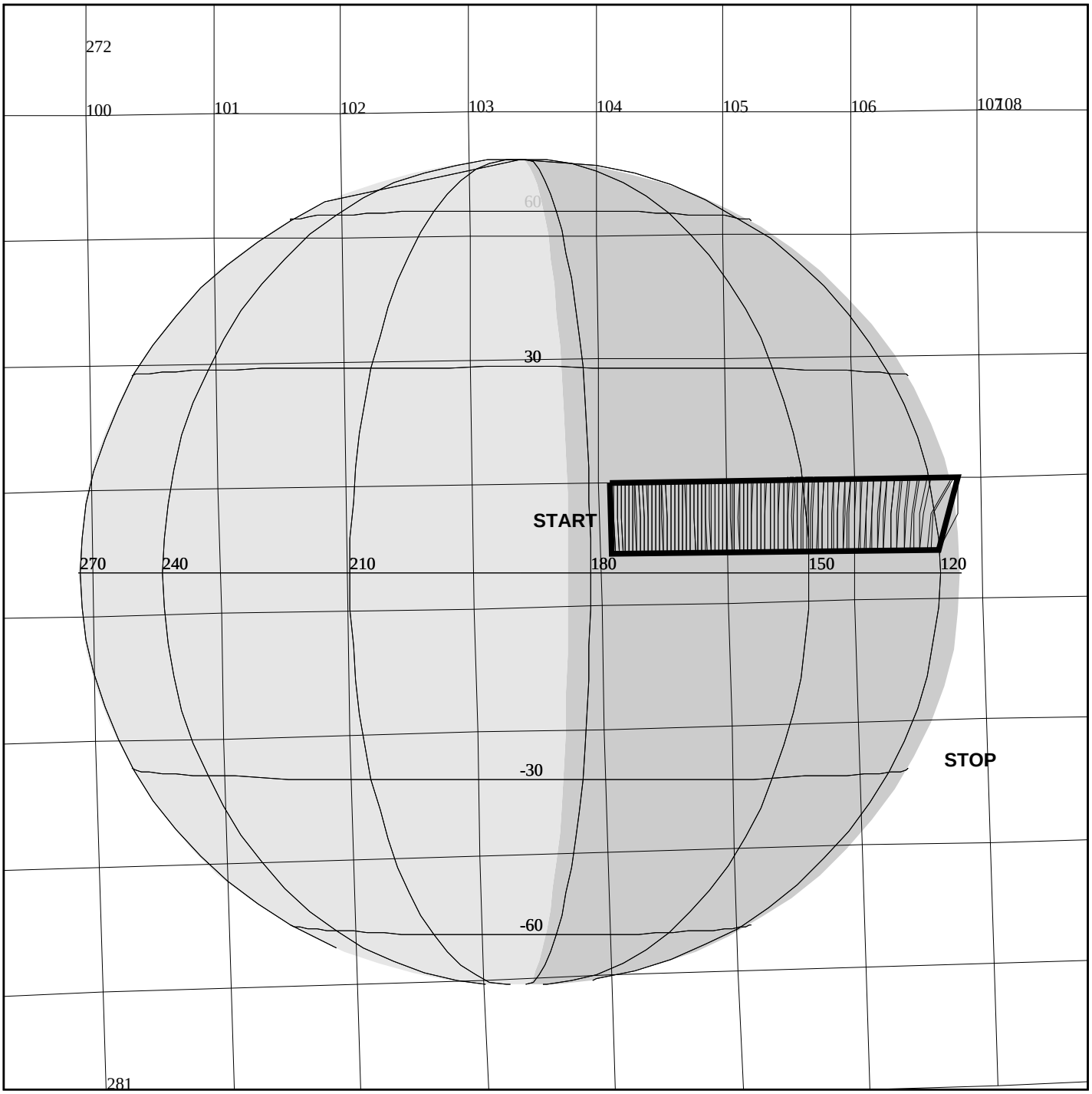


165FT:TT= 0 TMC= 1 C= -13.00 XC= 0.00 BS= 0/8112 TC= 1(8 165)
A= 182 pD= 0 SR=17.450 RA50= 32.98 DEC50= 15.58 cone=104.09 clock=276.29
117FT:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8112
1:#s= 1 Cs= 35.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3598 rD= 2

C9JNTHRCYL03

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNTHRCYL03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1302:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNTHRCYL03 **DESCRIP:JUPITER_THERMAL_CYCLE_MAP_PART_3**

Jupiter Thermal Cylindrical Map part 3	**ACTIVITY ID: C9JNTHRCYL03-** **START TIME: 97-179/09:52:02.799**

Activity ID: Orbit C9 Target J Inst N OAPEL THRCYL SeqNo 03 -

Title	**Jupiter Thermal Cylindrical Map part 3**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001300:04:0**	**97-179/09:52:02.799**		**JEE+000/21:54:29.333**	
End	**JEE+CDS 00001321:74:0**	**97-179/10:14:03.466**		**JEE+000/22:16:30.000**	
Duration	**00000021:70:0**	**000/00:22:00.667**		**000/00:22:00.667**	

Top Label	**C9JNTHRCYL03-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

Part one of seven OAPELS constituting the Jupiter Cylindrical map of the 8-degrees north latitude Hotspot region to assess lower-tropospheric properties such as phosphine and water abundance variation with longitude, and 5-micron variablility of ammonia cloud opacity. Night time observation near 15 degrees relative longitude 10 degrees to the east of the terminator obtained during 85 degree phase angle opportunity near 15 Rj using NIMS wavelength table J5M80B spanning 4.279 - 5.22 microns. Equatorial longitude approximately 165 degrees west longitude.

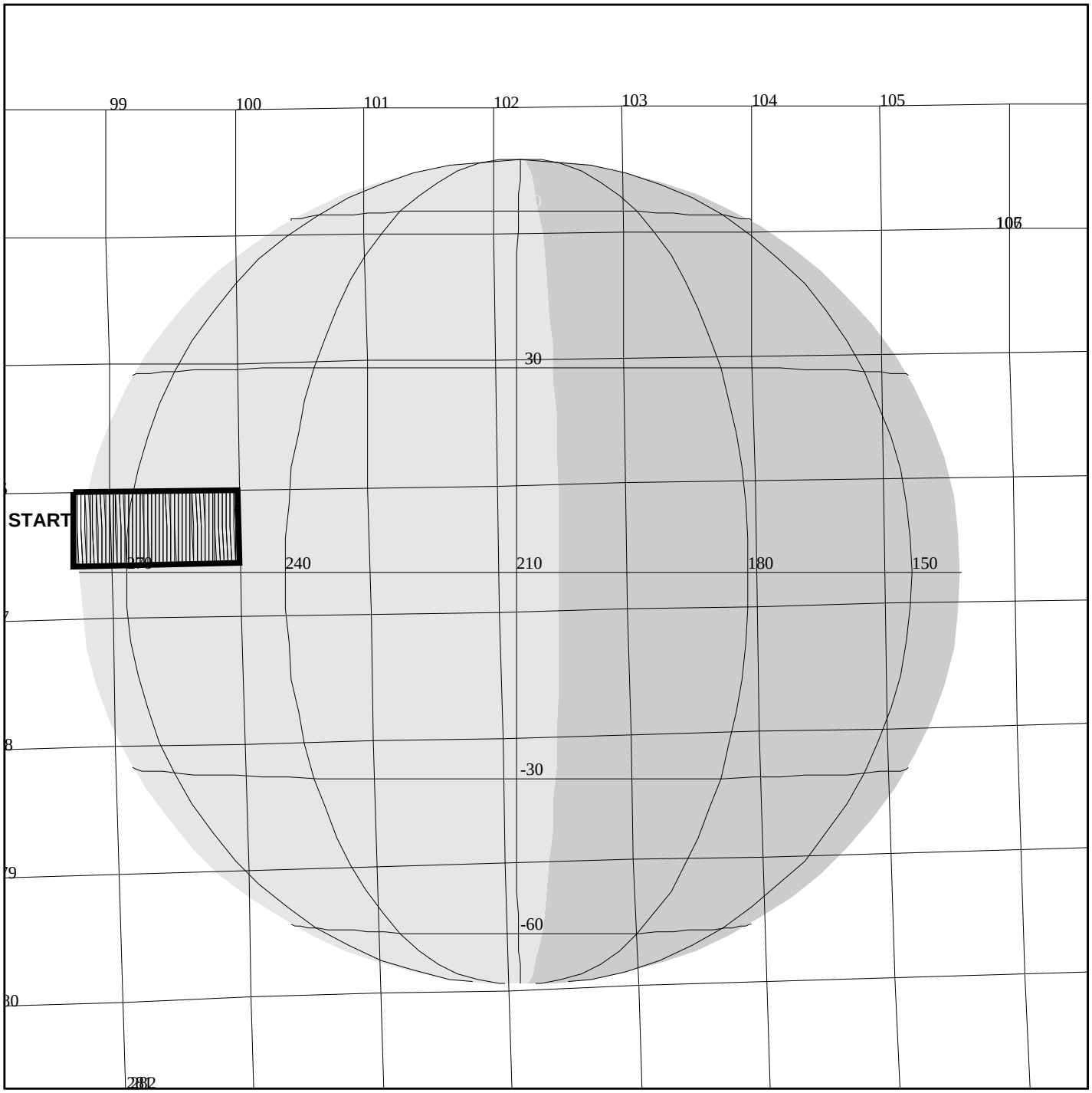
Note: OAPELS THRCYL01 and THRCYL02 moved to the end of the Thermal Cycle sequence to accomodate UVS Aurora map.

Data Returned

Design Detail

Long map, Nyquist sampled observation of 5 X 1 (50 mrad X 10 mrad) area centered near 9-degrees north latitude, 165 degrees west longitude, covering about 30 degrees of longitude at about 550 KM IFOV spatial resolution.
Science scan lasts 200 X 8.666 = 1732 secs = 28:52 = 28:50 CDS accumulating 1.7443 MBTG in 80 colors, and using 0.05819 tracks.
One rim available for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9J5M253B, C9J5M127B



165FV:TT= 0 TMC= 1 C= -11.00 XC= 0.00 BS= 0/4664 TC= 1(6.5 263)
A= 728 pD= 0 SR=17.450 RA50= 38.28 DEC50= 17.33 cone= 98.71 clock=276.28
117FV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4664
1:#s= 1 Cs= 21.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNFEA08502

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA08502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1338:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA08502 **DESCRIP:Jup_Fea_trk_85_deg_phase_02**

Jupiter Ftr Trk 85 degrees Phase part 2 ACTIVITY ID: C9JNFEA08502-
START TIME: 97-179/10:26:02.799

Activity ID: Orbit C9 Target J Inst N OAPEL FEA085 SeqNo 02 -

Title	Jupiter Ftr Trk 85 degrees Phase part 2 Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	Calendar Date 06/28/97 Week 26
Start	JEE+CDS 00001333:61:0	97-179/10:26:02.799	JEE+000/22:28:29.333
End	JEE+CDS 00001343:51:0	97-179/10:36:02.799	JEE+000/22:38:29.333
Duration	00000009:81:0	000/00:10:00.000	000/00:10:00.000

Top Label	C9JNFEA08502-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 12 OAPELS constituting the feature tracks the Hot Spot/Plume feature campaign. This is the second of four observations obtained on a rotation with phase angle approximately 85 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with Hot Spot/Plume feature near minimum airmass, assuming feature coordinates 8 degrees north latitude (planetographic) and nominally 249 degrees west longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume coordinate.

Data Returned

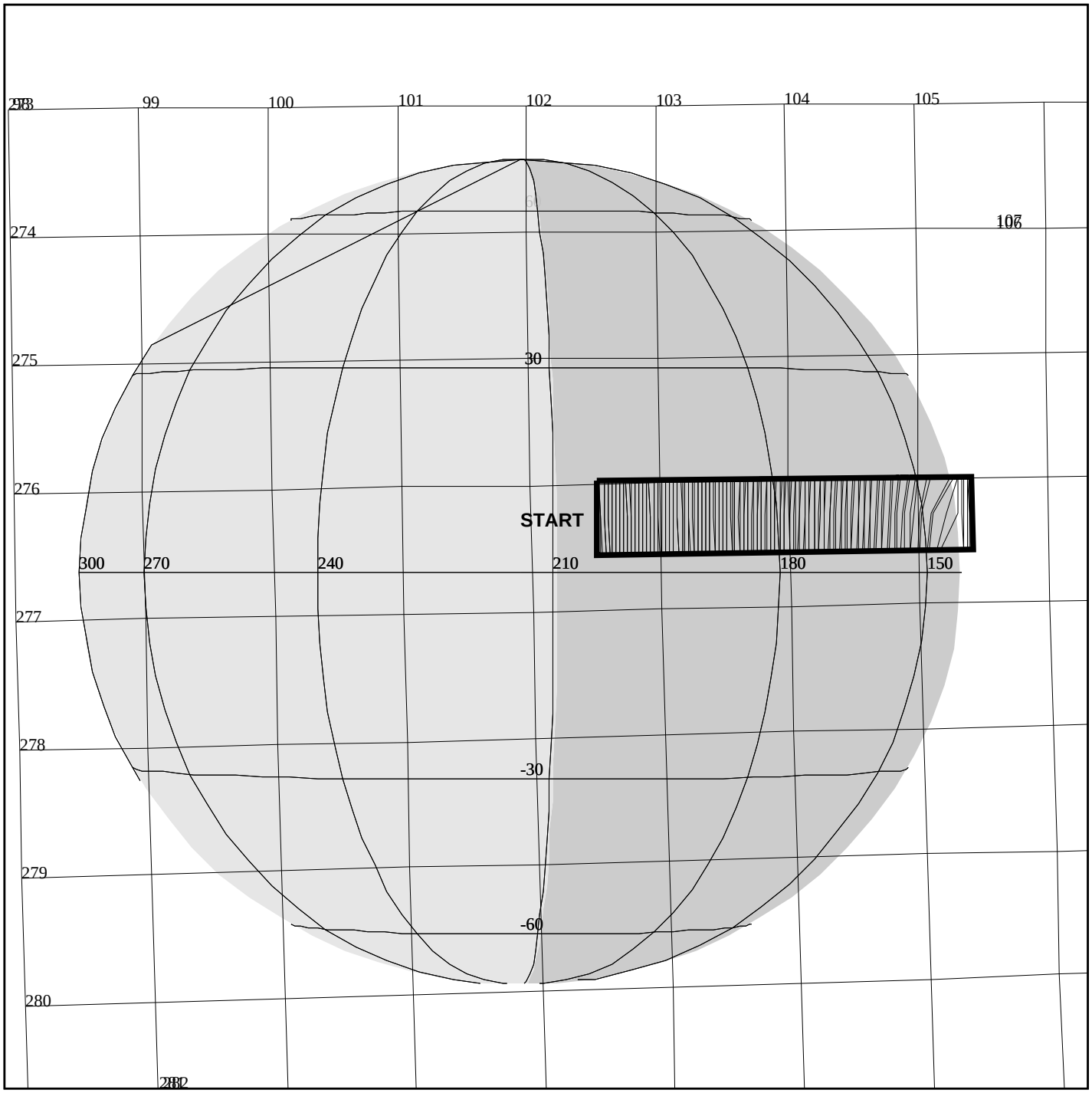
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on Hot Spot/Plume feature nominally near 249 degrees west longitude, 8 degrees north planetographic latitude.
Spacecraft distance 1.1 million KM, NIMS IFOV (NIMSel) = 550 KM;
2 X 1 mosaic covers 22000 X 11000 KM. About 200 seconds of scanning, accumulating 0.1454 MBTG in 15 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

NOTE 5/15/97: Target coordinates chaged to 263 degrees West longitude, 6.5 degrees North latitude, to encompass both hotspot and plume head.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68B, C9JFT40A

Galileo Activity Plan Form 06/09/97 10:29:46 rev 6/95



165FW:TT= 0 TMC= 1 C= -15.00 XC= 0.00 BS= 0/6120 TC= 1(8 190)
A= 182 pD= 0 SR=17.450 RA50= 34.51 DEC50= 16.12 cone=102.52 clock=276.27
117FW:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6120
1:#s= 1 Cs= 38.09 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3822 rD= 2

C9JNTHRCYL04

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNTHRCYL04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1346:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNTHRCYL04 **DESCRIP:JUPITER_THERMAL_CYCLE_MAP_PART_4**

Jupiter Thermal Cylindrical Map part 4	**ACTIVITY ID: C9JNTHRCYL04-** **START TIME: 97-179/10:37:02.799**

Activity ID: Orbit C9 Target J Inst N OAPEL THRCYL SeqNo 04 -

Title	**Jupiter Thermal Cylindrical Map part 4**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001344:50:0**	**97-179/10:37:02.799**		**JEE+000/22:39:29.333**	
End	**JEE+CDS 00001366:28:0**	**97-179/10:59:02.799**		**JEE+000/23:01:29.333**	
Duration	**00000021:69:0**	**000/00:22:00.000**		**000/00:22:00.000**	

Top Label	**C9JNTHRCYL04-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

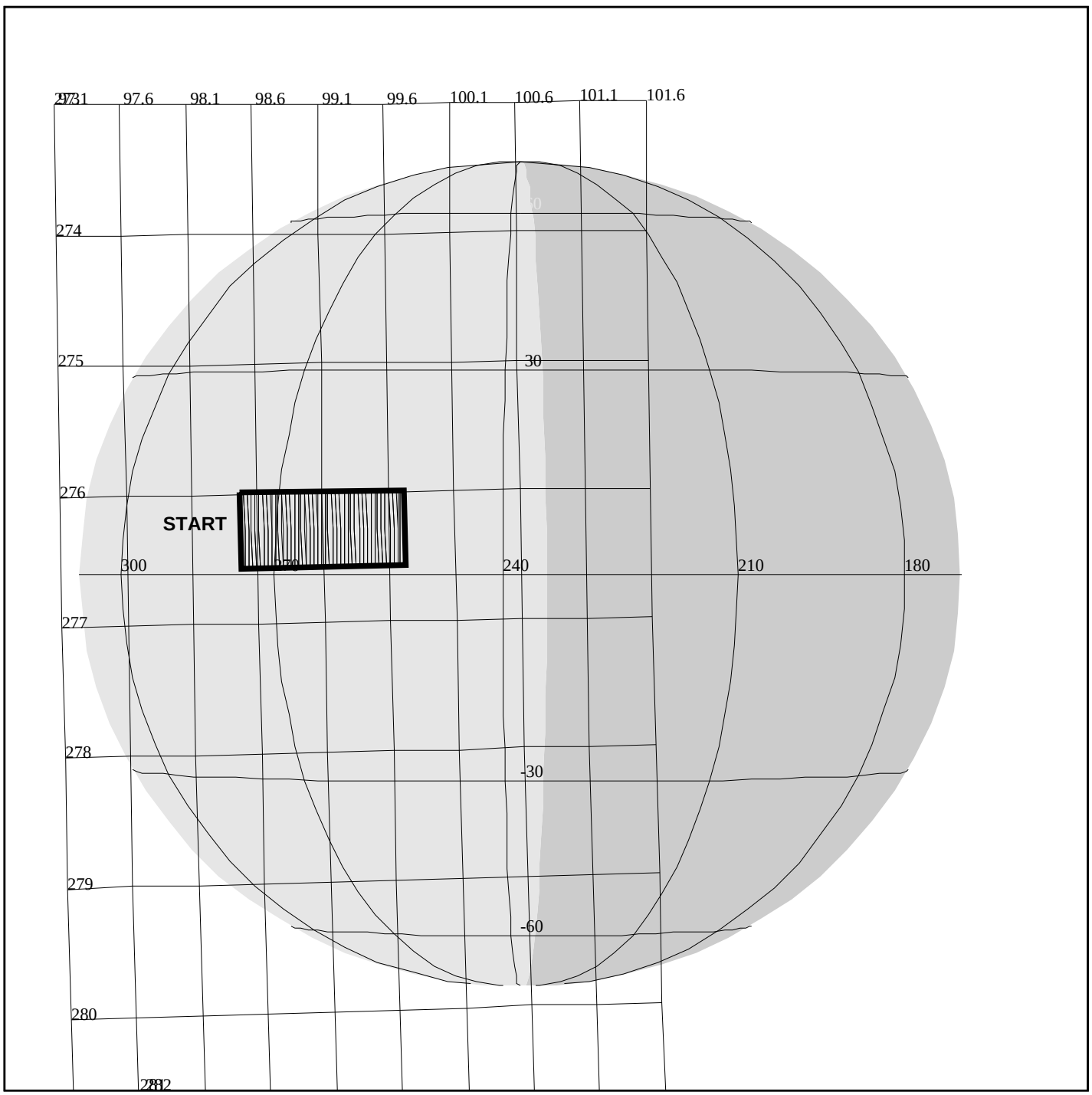
Part two of seven OAPELS constituting the Jupiter Cylindrical map of the 8-degrees north latitude Hotspot region to assess lower-tropospheric properties such as phosphine and water abundance variation with longitude, and 5-micron variablility of ammonia cloud opacity. Night time observation near 15 degrees relative longitude 10 degrees to the east of the terminator obtained during 85 degree phase angle opportunity near 15 Rj using NIMS wavelength table J5M80B spanning 4.279 - 5.22 microns.
Equatorial longitude approximately 190 degrees west longitude.

Data Returned

Design Detail

Long map, Nyquist sampled observation of 5 X 1 (50 mrad X 10 mrad) area centered near 9-degrees north latitude, 190 degrees west longitude, covering about 30 degrees of longitude at about 550 KM IFOV spatial resolution.
Science scan lasts 200 X 8.666 = 1732 secs = 28:52 = 28:50 CDS accumulating 1.7443 MBTG in 80 colors, and using 0.05819 tracks.
One rim available for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9J5M253B, C9J5M127B



165FY:TT= 0 TMC= 1 C= -11.00 XC= 0.00 BS= 0/3582 TC= 1(6.5 263)
A= 728 pD= 0 SR=17.450 RA50= 38.51 DEC50= 17.41 cone= 98.48 clock=276.28
117FY:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3582
1:#s= 1 Cs= 21.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNFEA08503

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA08503

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1387:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA08503 **DESCRIP:Jup_Fea_trk_85_deg_phase_03**

Jupiter Ftr Trk 85 degrees Phase part 3 ACTIVITY ID: C9JNFEA08503-
START TIME: 97-179/11:14:54.799

Activity ID: Orbit C9 Target J Inst N OAPEL FEA085 SeqNo 03 -

Title	Jupiter Ftr Trk 85 degrees Phase part 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	JEE+CDS 00001382:00:0	97-179/11:14:54.799		JEE+000/23:17:21.333	
End	JEE+CDS 00001391:00:0	97-179/11:24:00.799		JEE+000/23:26:27.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	C9JNFEA08503-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 12 OAPELS constituting the feature tracks the Hot Spot/Plume feature campaign. This is the third of four observations obtained on a rotation with phase angle approximately 85 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with Hot Spot/Plume feature near evening terminator, assuming feature coordinates 8 degrees north latitude (planetographic) and nominally 249 degrees west longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume coordinate.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on Hot Spot/Plume feature nominally near 249 degrees west longitude, 8 degrees north planetographic latitude.
Spacecraft distance 1.1 million KM, NIMS IFOV (NIMSel) = 550 KM;
2 X 1 mosaic covers 22000 X 11000 KM. About 200 seconds of scanning, accumulating 0.1454 MBTG in 15 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

NOTE 5/15/97: Target coordinates chaged to 263 degrees West longitude, 6.5 degrees North latitude, to encompass both hotspot and plume head.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68B, C9JFT40A

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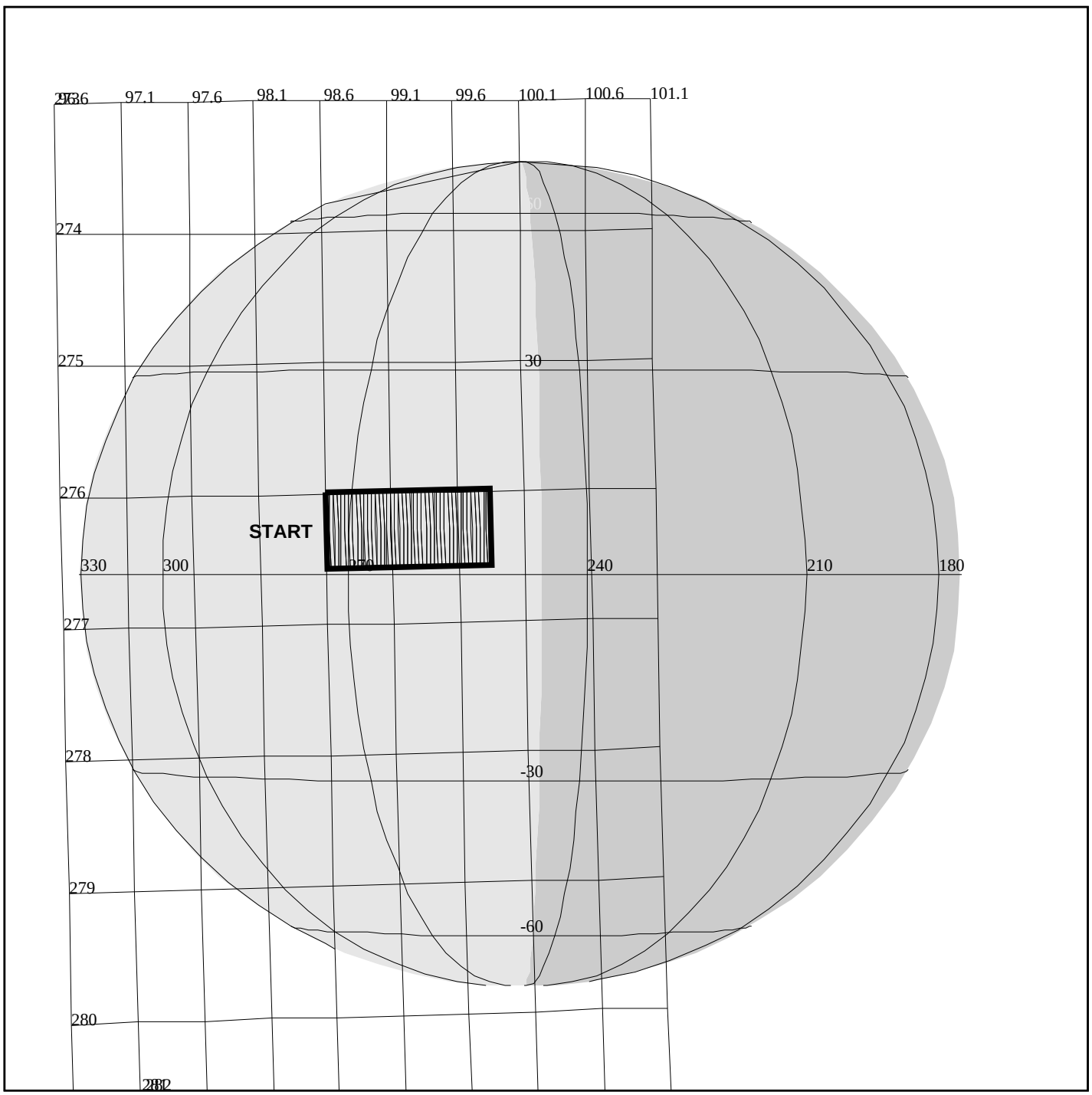

165FZ:TT= 0 TMC= 1 C= -10.00 XC= 0.00 BS= 0/6858 TC= 1(6.5 263)
A= 728 pD= 0 SR=17.450 RA50= 38.41 DEC50= 17.38 cone= 98.58 clock=276.28
117FZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6858
1:#s= 1 Cs= 21.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNFEA08504

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA08504

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1405:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA08504 **DESCRIP:Jup_Fea_trk_85_deg_phase_04**

Jupiter Ftr Trk 85 degrees Phase part 4	ACTIVITY ID: C9JNFEA08504- START TIME: 97-179/11:34:02.799

Activity ID: Orbit C9 Target J Inst N OAPEL FEA085 SeqNo 04 -

Title	Jupiter Ftr Trk 85 degrees Phase part 4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID	Calendar Date 06/28/97 Week 26
Start	JEE+CDS 00001400:84:0	97-179/11:34:02.799	JEE+000/23:36:29.333
End	JEE+CDS 00001408:76:0	97-179/11:42:02.799	JEE+000/23:44:29.333
Duration	00000007:83:0	000/00:08:00.000	000/00:08:00.000

Top Label	C9JNFEA08504-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 12 OAPELS constituting the feature tracks the Hot Spot/Plume feature campaign. This is the fourth of four observations obtained on a rotation with phase angle approximately 85 degrees. Jupiter imaged in 15 colors, using NIMS downlink wavelength table JFT15A. This observation acquired with Hot Spot/Plume feature near the central meridian at the evening terminator, assuming feature coordinates 6.5 degrees north latitude (planetographic) and nominally 263 degrees west longitude (System III). This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume coordinate.

Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (208X 10 mrad) area centered on Hot Spot/Plume feature nominally near 263 degrees west longitude, 6.5 degrees north planetographic latitude.
Spacecraft distance 1.1 million KM, NIMS IFOV (NIMSel) = 550 KM;
2 X 1 mosaic covers 22000 X 11000 KM. About 200 seconds of scanning, accumulating 0.1454 MBTG in 15 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68B, C9JFT40A

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NIMS Real-Time Software Reload	**ACTIVITY ID: C9NNRELOAD10-** **START TIME: 97-179/12:04:27.466**

Activity ID: Orbit C9 Target N Inst N OAPEL RELOAD SeqNo 10 -

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

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001431:00:0**	**97-179/12:04:27.466**		**JEE+001/00:06:54.000**	
End	**JEE+CDS 00001441:00:0**	**97-179/12:14:34.132**		**JEE+001/00:17:00.666**	
Duration	**00000010:00:0**	**000/00:10:06.666**		**000/00:10:06.666**	

Top Label	**C9NNRELOAD10-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

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

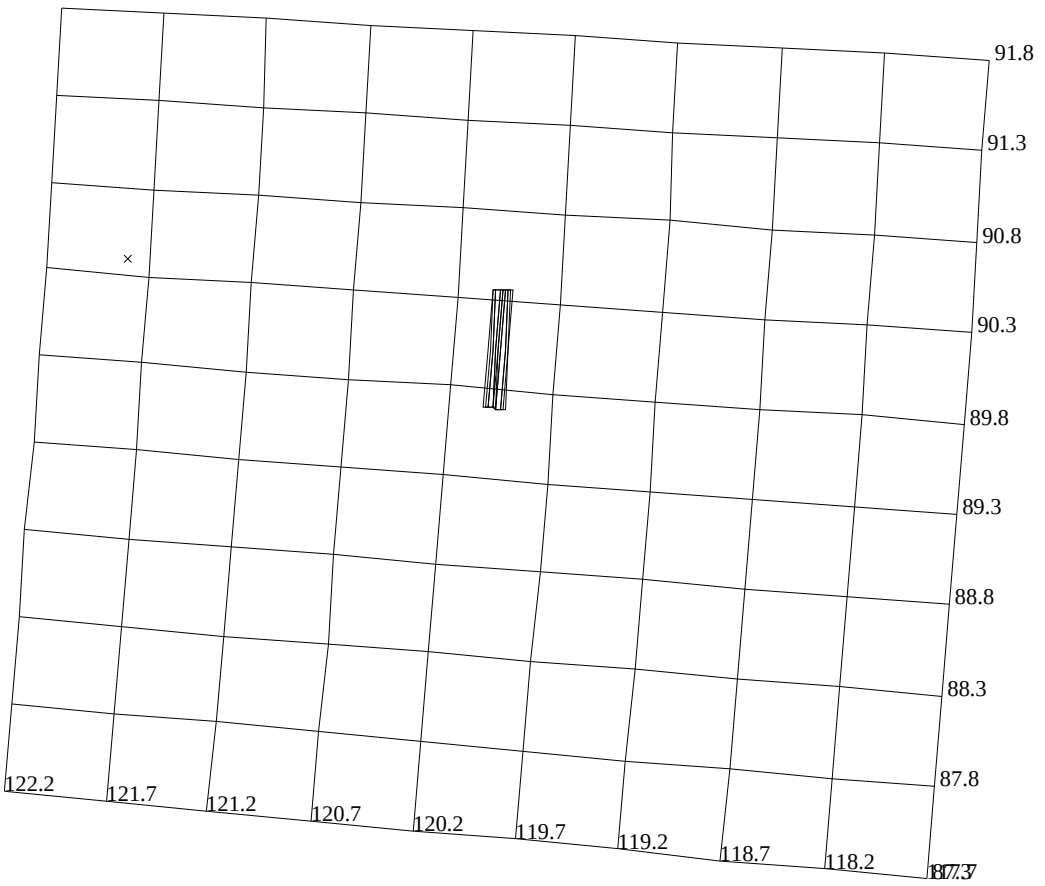
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

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	**06/09/97 10:29:46**	**rev 6/95**



165LB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3956 TC= 2(120 90)
A= 728 pD= 0 SR=17.450 RA50=259.01 DEC50=-30.17 cone=120.00 clock= 90.00
117LB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3956
1:#s= 1 Cs= -1.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9HNDARK__04

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 1**

START:JEE 97-178/11:57:33.466 +CDS 1444:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9HNDARK__04 **DESCRIP:NIMS_DARK_OBSERVATION**

NIMS Dark Observation	**ACTIVITY ID: C9HNDARK__04-** **START TIME: 97-179/12:12:32.799**

Activity ID: Orbit C9 Target H Inst N OAPEL DARK__ SeqNo 04 -

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

Time System	**CDS**	**Load ID**		**Calendar Date**	**06/28/97 Week 26**
Start	**JEE+CDS 00001439:00:0**	**97-179/12:12:32.799**		**JEE+001/00:14:59.333**	
End	**JEE+CDS 00001445:00:0**	**97-179/12:18:36.799**		**JEE+001/00:21:03.333**	
Duration	**00000006:00:0**	**000/00:06:04.000**		**000/00:06:04.000**	

Top Label	**C9HNDARK__04-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

Collect Dark Values for calibration purposes.

Data Returned

Design Detail

Slew to dark space and record 1 RIM of dark values.
Long Map
Gain State 3

Long Map (LM), Gain 3, Grating Start 0, LPU, C9DRK2524, C9DRK252

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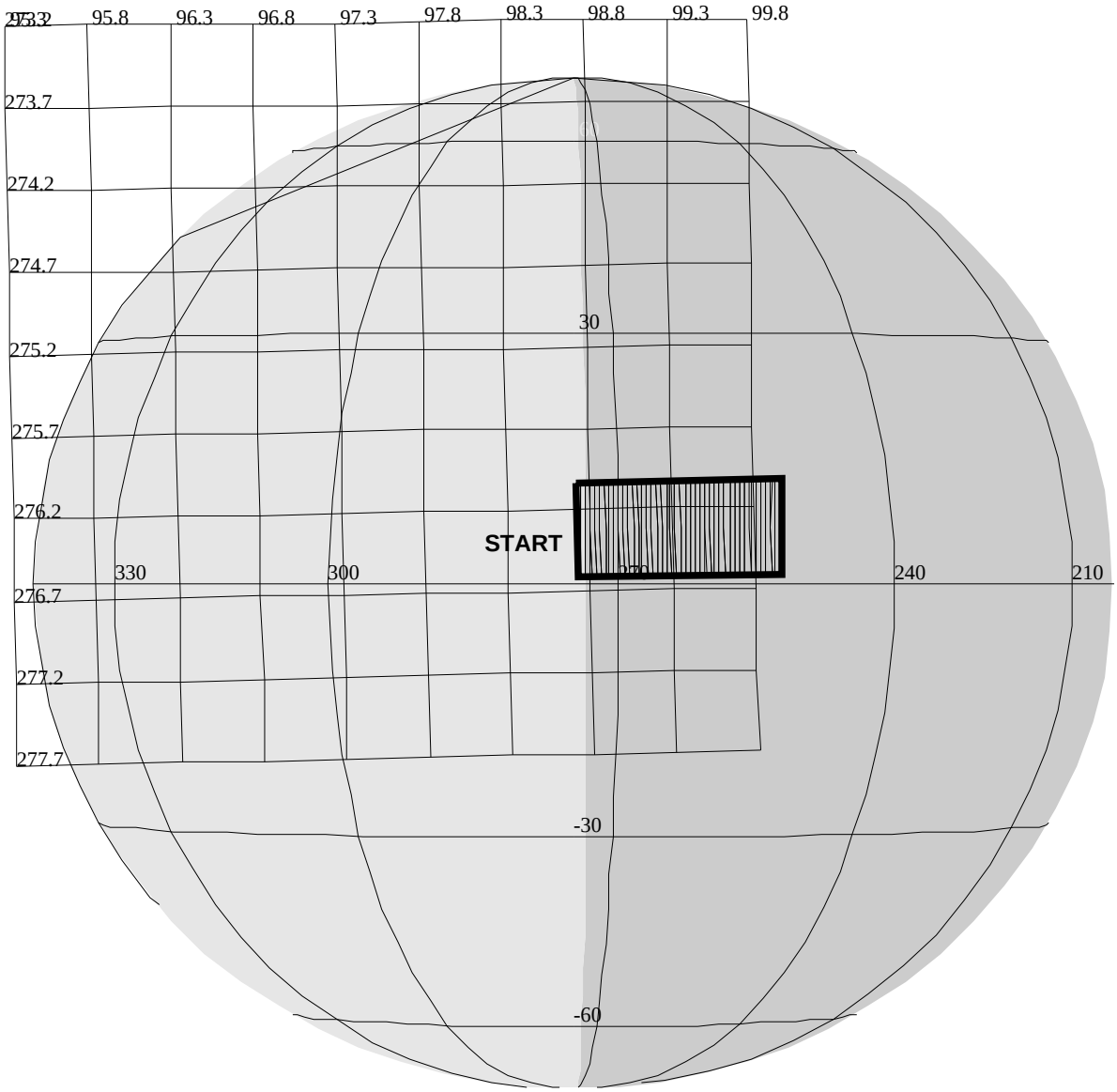


165LC:TT= 0 TMC= 1 C= -11.50 XC= 0.00 BS= 0/5048 TC= 1(6.5 263)
A= 586 pD= 0 SR=17.450 RA50= 38.29 DEC50= 17.34 cone= 98.70 clock=276.28
117LC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5048
1:#s= 2 Cs= 21.80 XCs= 0.00 Cr= -21.00 XCr= 0.00 sD= 2184 rD= 364

C9JNFEA53M01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA53M01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1450:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA53M01 **DESCRIP:JUP_FTR_TRK_5_AND_3_MICRON_MAP**

Jupiter Ftr Trk 5 and 3 Micron Map	ACTIVITY ID: C9JNFEA53M01- START TIME: 97-179/12:19:37.466

Activity ID: Orbit C9 Target J Inst N OAPEL FEA53M SeqNo 01 -

Title	Jupiter Ftr Trk 5 and 3 Micron Map	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date 06/28/97 Week 26
Start	JEE+CDS 00001446:00:0	97-179/12:19:37.466	JEE+001/00:22:04.000
End	JEE+CDS 00001476:08:0	97-179/12:50:02.799	JEE+001/00:52:29.333
Duration	00000030:08:0	000/00:30:25.333	000/00:30:25.333

Top Label	C9JNFEA53M01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution 5-micron and 3-micron night-time maps of trace species within the Hot Spot/Plume 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 249 degrees west longitude (System III), 8 degrees north planetographic latitude, is observed near the central meridian during the phase angle approximately 85 degrees rotation.

Data Returned

Design Detail

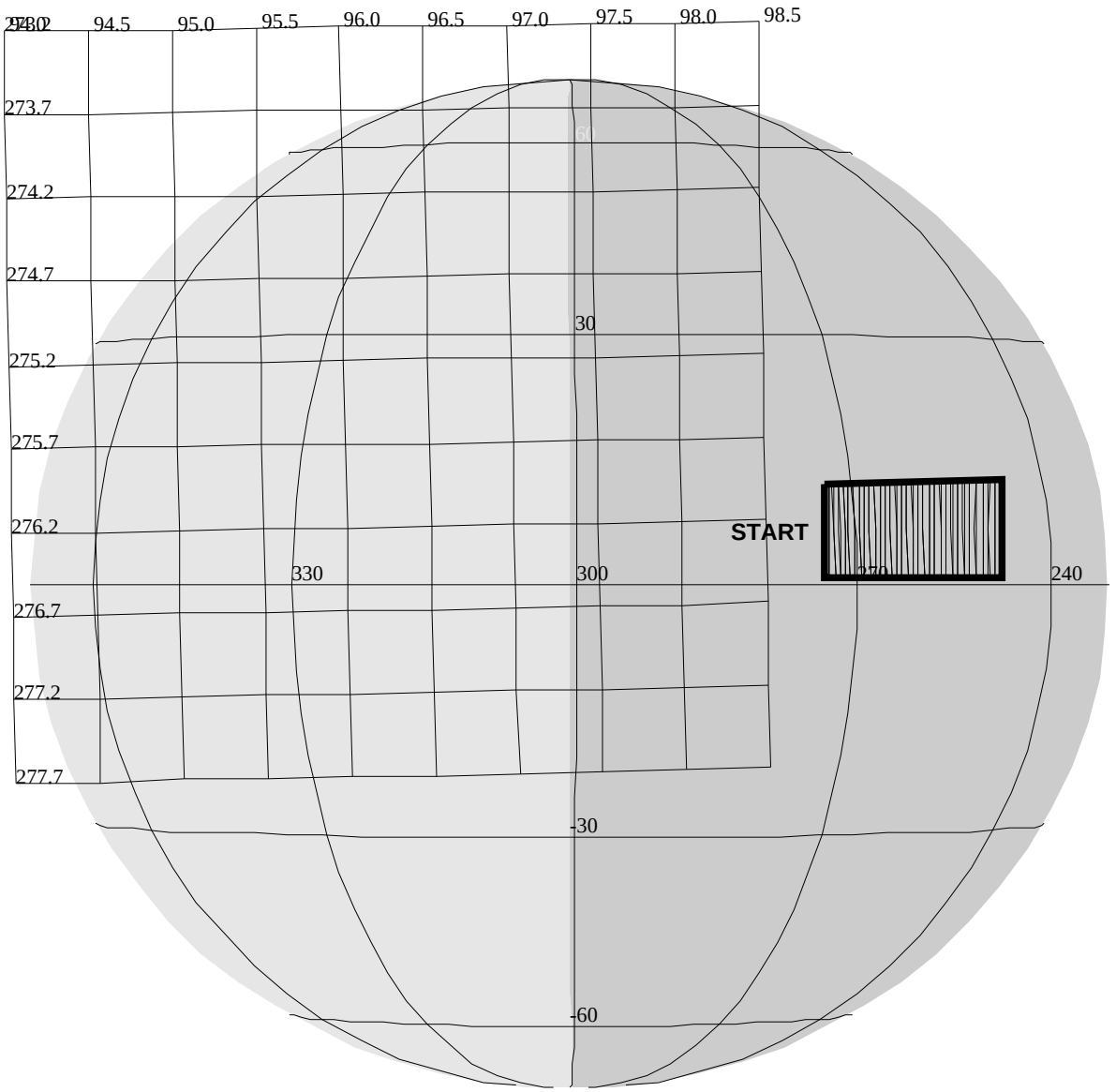
Two Long Map, Nyquist-sampled observations of 2 X 1 (20 X 10 mrad) area centered on the Hot Spot/Plume campaign feature.
Spacecraft distance about 1.17 million KM, map covers 23400 X 11700 KM.
Each observation encompasses about 12 minutes of scanning, including reposition slew, accumulating 0.72510 MBTG and using 0.02419 tracks.
Three rims reserved for targetting. Two minutes reserved for reposition slew. Total OAPel resources used: 1.4502 MBTG and 0.04838 tracks.

Note: All data transmitted using J35157. Only first scan needs to be transmitted down.

NOTE 5/15/97: Target coordinates chaged to 263 degrees West longitude, 6.5 degrees North latitude, to encompass both hotspot and plume head. Only first swath was returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9J35157, C9J35157

Galileo Activity Plan Form 06/09/97 10:29:46 rev 6/95



165LD:TT= 0 TMC= 1 C= -9.00 XC= 0.00 BS= 0/3238 TC= 1(6.5 263)
A= 728 pD= 0 SR=17.450 RA50= 38.12 DEC50= 17.28 cone= 98.88 clock=276.29
117LD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3238
1:#s= 1 Cs= 16.35 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1638 rD= 2

C9JNFEA5UM01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA5UM01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1495:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA5UM01 **DESCRIP:JUPITER_FTR_TRK_5_MICRON_MAP**

Jupiter Ftr Trk 5 Micron Map	**ACTIVITY ID: C9JNFEA5UM01-** **START TIME: 97-179/13:04:06.799**

Activity ID: Orbit C9 Target J Inst N OAPEL FEA5UM SeqNo 01 -

Title	**Jupiter Ftr Trk 5 Micron Map**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001490:00:0**	**97-179/13:04:06.799**		**JEE+001/01:06:33.333**	
End	**JEE+CDS 00001504:00:0**	**97-179/13:18:16.132**		**JEE+001/01:20:42.666**	
Duration	**00000014:00:0**	**000/00:14:09.333**		**000/00:14:09.333**	

Top Label	**C9JNFEA5UM01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

High spectral resolution 5-micron night-time map of trace species within the Hot Spot/Plume campaign feature. This is the second 5-um map obtained during the 85 degree phase angle rotation, the other having been obtained during OAPEL C9JNFEA53M01-. The campaign feature, centered at 249 degrees west longitude (System III), 8 degrees south planetographic latitude, observed near 60 degrees emission angle during the phase angle approximately 85 degrees rotation. The feature is scanned in 157 wavelengths specified by NIMS wavelength table J35157.

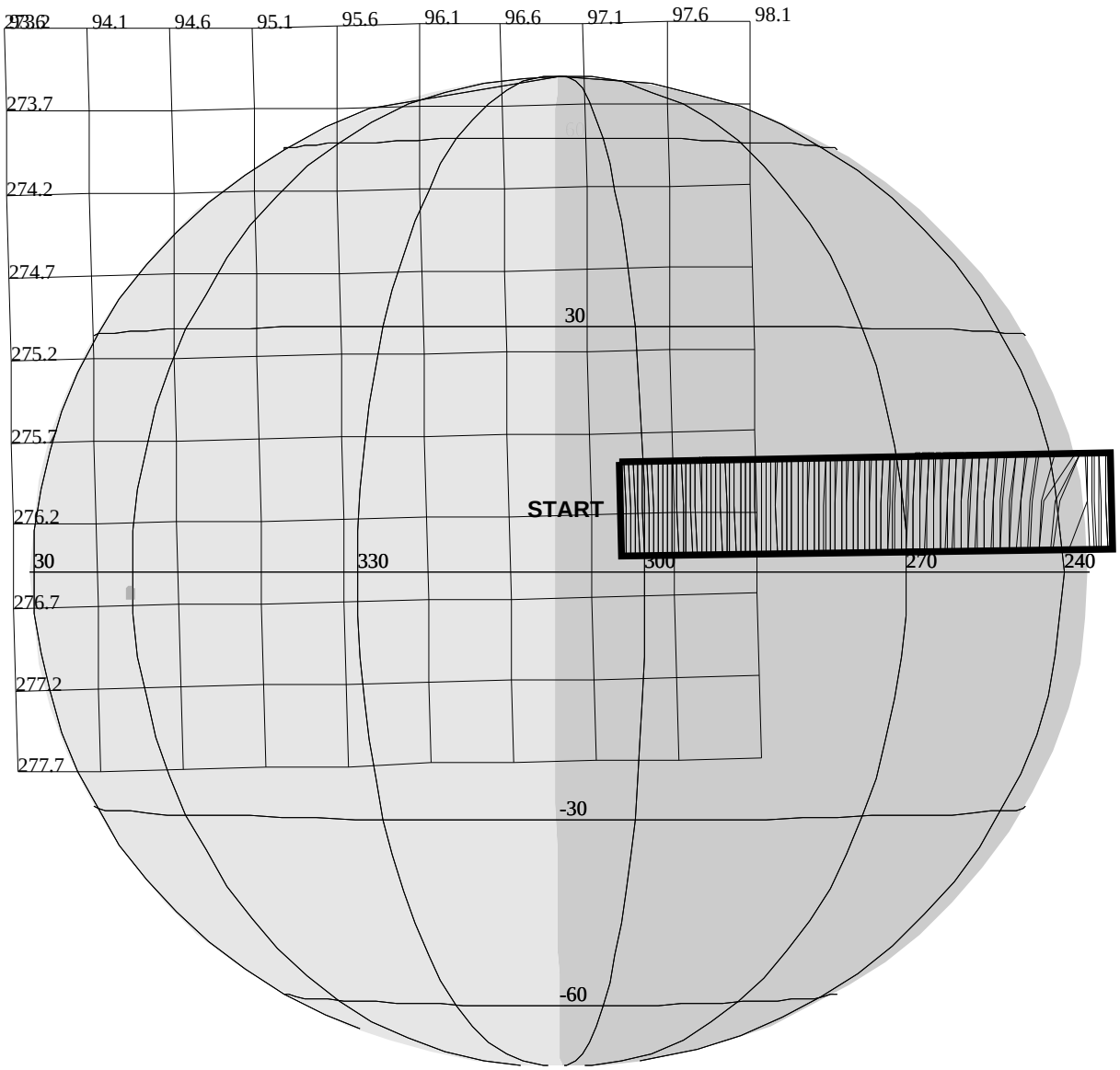
Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1.5 X 1 (15 X 10 mrad) area centered on the Hot Spot/Plume campaign feature. Spacecraft distance 1.21 million KM, map covers 18150 X 12100 KM at 600 KM IFOV resolution. About 9 minutes of scanning, accumulating 0.54986 MBTG and using 0.01834 tracks. Four rims reserved for targetting.

NOTE 5/15/97: Target coordinates chaged to 263 degrees West longitude, 6.5 degrees North latitude, to encompass both hotspot and plume head.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9J35157, C9J35157



165LE:TT= 0 TMC= 1 C= -17.00 XC= 0.00 BS= 0/5786 TC= 1(8 285)
A= 182 pD= 0 SR=17.450 RA50= 39.64 DEC50= 17.85 cone= 97.32 clock=276.19
117LE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5786
1:#s= 1 Cs= 40.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4052 rD= 2

C9JNTHRCYL06

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNTHRCYL06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1509:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNTHRCYL06 **DESCRIP:JUPITER_THERMAL_CYCLE_MAP_PART_6**

Jupiter Thermal Cylindrical Map part 6	ACTIVITY ID: C9JNTHRCYL06- START TIME: 97-179/13:20:02.799

Activity ID: Orbit C9 Target J Inst N OAPEL THRCYL SeqNo 06 -

Title	Jupiter Thermal Cylindrical Map part 6	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	JEE+CDS 00001505:69:0	97-179/13:20:02.799		JEE+001/01:22:29.333	
End	JEE+CDS 00001531:44:0	97-179/13:46:03.466		JEE+001/01:48:30.000	
Duration	00000025:66:0	000/00:26:00.667		000/00:26:00.667	

Top Label	C9JNTHRCYL06-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part four of seven OAPELS constituting the Jupiter Cylindrical map of the 8-degrees north latitude Hotspot region to assess lower-tropospheric properties such as phosphine and water abundance variation with longitude, and 5-micron variablility of ammonia cloud opacity. Night time observation near 15 degrees relative longitude 10 degrees to the east of the terminator obtained during 85 degree phase angle opportunity near 15 Rj using NIMS wavelength table J5M80B spanning 4.279 - 5.22 microns.
Equatorial longitude approximately 285 degrees west longitude.

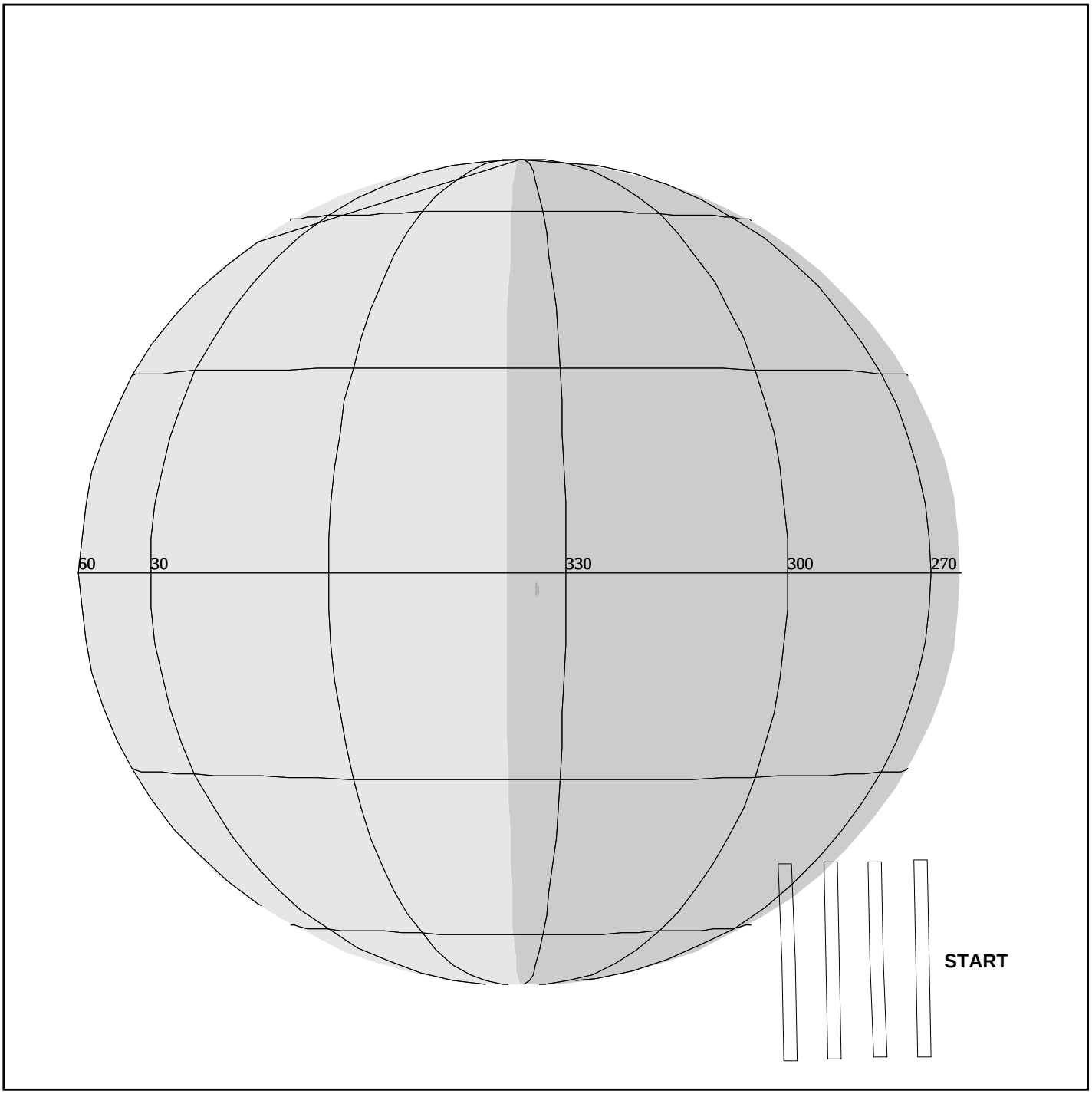
Data Returned

Design Detail

Long map, Nyquist sampled observation of 5 X 1 (50 mrad X 10 mrad) area centered near 9-degrees north latitude, 285 degrees west longitude, covering about 30 degrees of longitude at about 550 KM IFOV spatial resolution.
Science scan lasts 200 X 8.666 = 1732 secs = 28:52 = 28:50 CDS accumulating 1.7443 MBTG in 80 colors, and using 0.05819 tracks.
One rim available for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9J5M253B, C9J5M127B

Galileo Activity Plan Form 06/09/97 10:29:46 rev 6/95



165AS:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/4158 TC=15(14.5 39.5)
A= 728 pD= 0 SR=17.450 RA50= 39.50 DEC50= 14.50 cone= 98.46 clock=279.37
117AS:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/4158
1:#s= 2 Cs= -110.00 XCs= 0.00 Cr= 100.00 XCr= 0.00 sD= 3550 rD= 90

C9JNAURVAR01

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JUAURVAR01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING: :UVS 7**

START:JEE 97-178/11:57:33.466 +CDS 1555:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JUAURVAR01 **DESCRIP:Auroral_Variability_Map**

NIMS Ride Along with UVS	**ACTIVITY ID: C9JNAURVAR01+** **START TIME: 97-179/14:05:47.466**

Activity ID: Orbit C9 Target J Inst N OAPEL AURVAR SeqNo 01 +

Title	**NIMS Ride Along with UVS**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001551:00:0**	**97-179/14:05:47.466**		**JEE+001/02:08:14.000**	
End	**JEE+CDS 00001585:00:0**	**97-179/14:40:10.132**		**JEE+001/02:42:36.666**	
Duration	**00000034:00:0**	**000/00:34:22.666**		**000/00:34:22.666**	

Top Label	**C9JNAURVAR01+**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**40**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Southern aurora Io fluxtube footprint spatial characterization and short time-scale variability using H Ly-a at a fixed longitude on the darkside. Coincident with the MWG Campaign A.

Data Returned

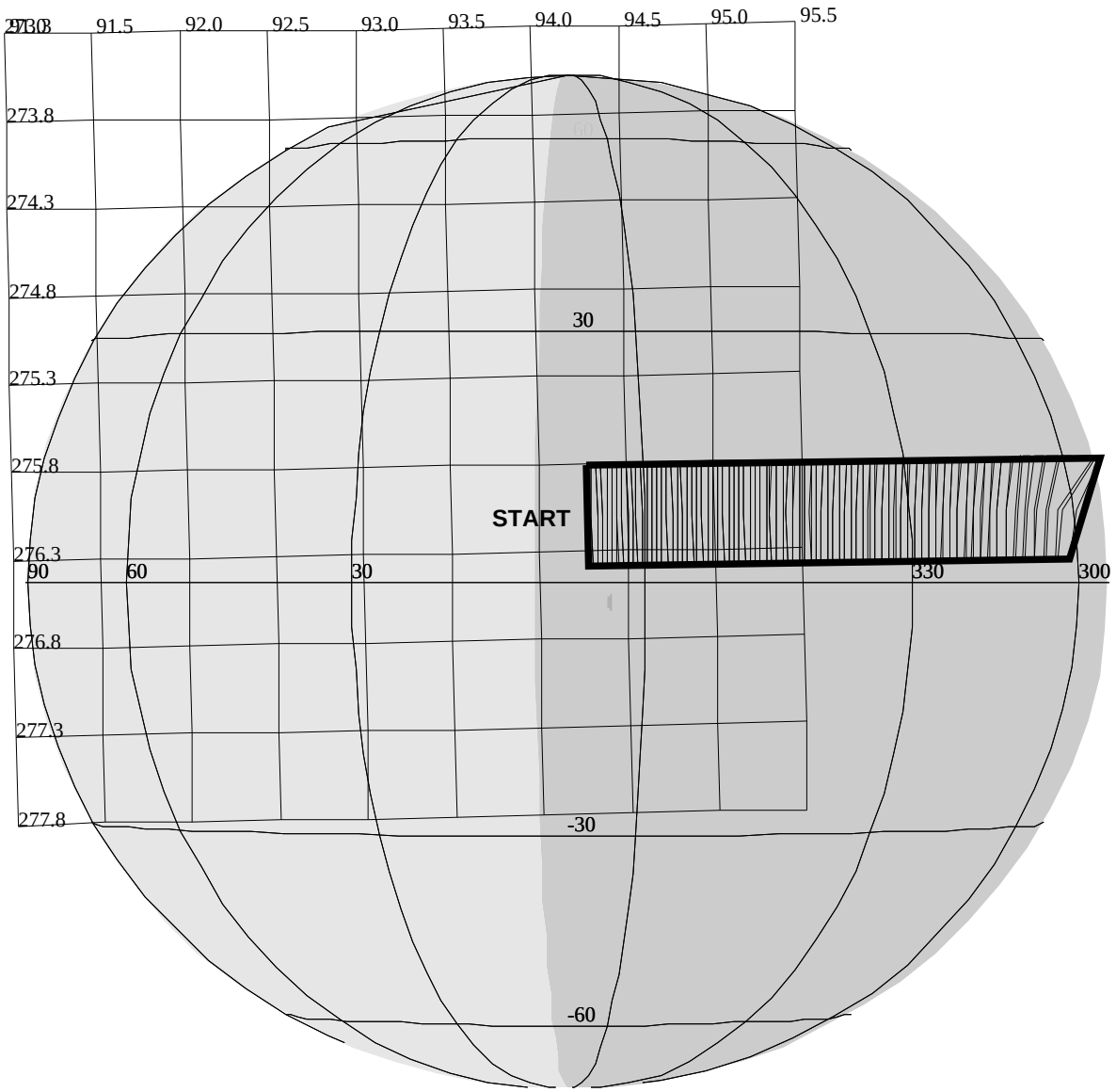
Design Detail

Ride-along with UVS (C9JUAURVAR01).
Campaign A select 5 RIMS of real-time data.

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

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

Galileo Activity Plan Form 06/09/97 10:29:46 rev 6/95



165LF:TT= 0 TMC= 1 C= -15.00 XC= 0.00 BS= 0/4168 TC= 1(8 350)
A= 728 pD= 0 SR=17.450 RA50= 42.67 DEC50= 18.80 cone= 94.29 clock=276.14
117LF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4168
1:#s= 1 Cs= 40.45 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4052 rD= 2

C9JNTHRCYL07

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNTHRCYL07

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1610:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNTHRCYL07 **DESCRIP:JUPITER_THERMAL_CYCLE_MAP_PART_7**

Jupiter Thermal Cylindrical Map part 7	ACTIVITY ID: C9JNTHRCYL07- START TIME: 97-179/15:00:23.466

Activity ID: Orbit C9 Target J Inst N OAPEL THRCYL SeqNo 07 -

Title	Jupiter Thermal Cylindrical Map part 7	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	JEE+CDS 00001605:00:0	97-179/15:00:23.466		JEE+001/03:02:50.000	
End	JEE+CDS 00001639:00:0	97-179/15:34:46.132		JEE+001/03:37:12.666	
Duration	00000034:00:0	000/00:34:22.666		000/00:34:22.666	

Top Label	C9JNTHRCYL07-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

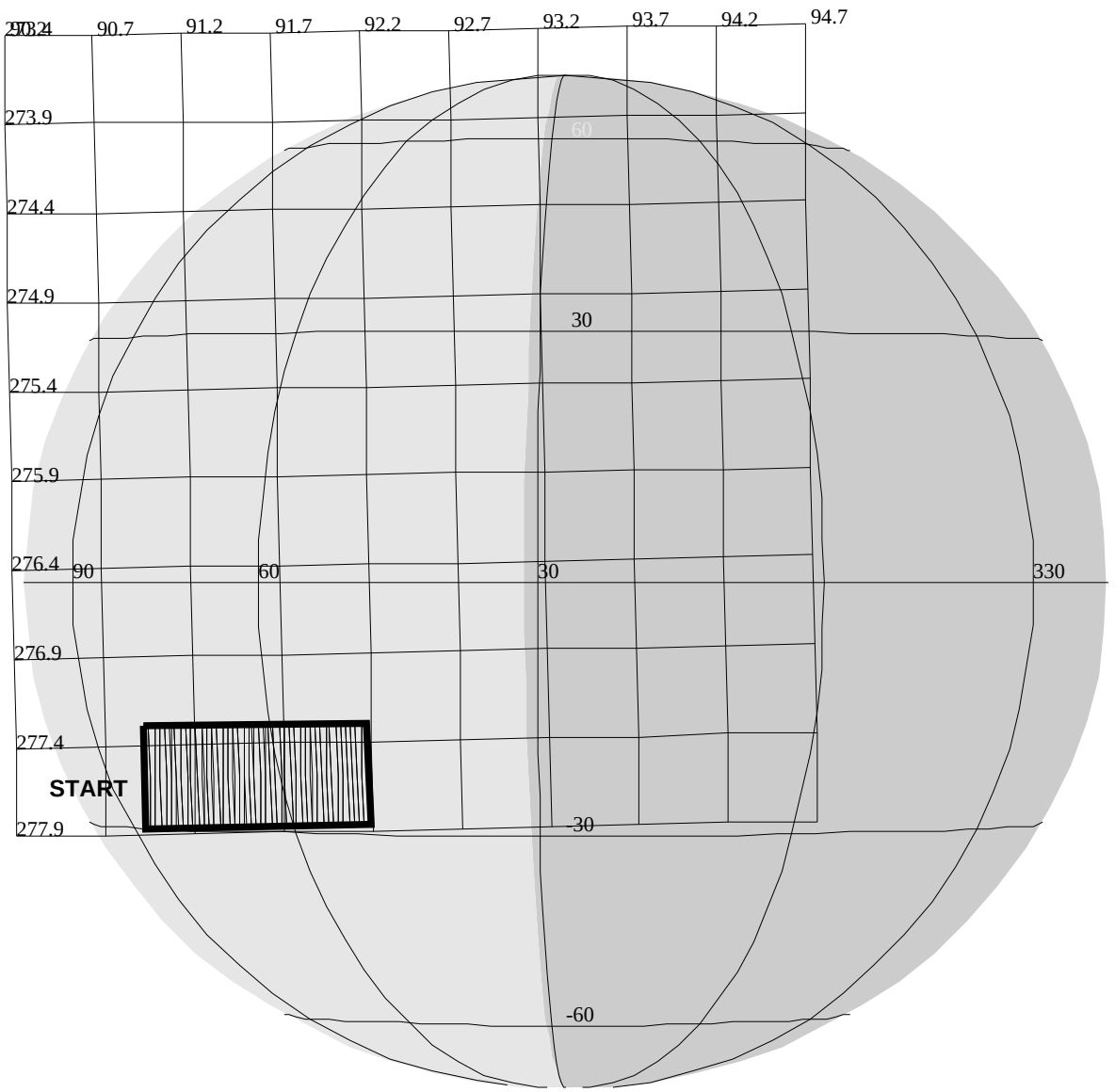
Part five of seven OAPELS constituting the Jupiter Cylindrical map of the 8-degrees north latitude Hotspot region to assess lower-tropospheric properties such as phosphine and water abundance variation with longitude, and 5-micronmeter variablility of ammonia cloud opacity. Night time observation near 15 degrees relative longitude 10 degrees to the east of the terminator obtained during 85 degree phase angle opportunity near 15 Rj using NIMS wavelength table J5M80B spanning 4.279 - 5.22 microns. Equatorial longitude approximately 350 degrees west longitude.

Data Returned

Design Detail

Long map, Nyquist sampled observation of 5 X 1 (50 mrad X 10 mrad) area centered near 9-degrees north latitude, 350 degrees west longitude, covering about 30 degrees of longitude at about 550 KM IFOV spatial resolution. This observation at 17 degrees longitude, is non-contiguous with the other 6 THRCYL OAPELS.
Science scan lasts 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.

Long Map (LM), Gain 4, Grating Start 0, LPU, C9J5M253B, C9J5M127B



165LG:TT= 0 TMC= 1 C= -7.00 XC= 0.00 BS= 0/0174 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50= 46.51 DEC50= 18.38 cone= 90.91 clock=277.55
117LG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0174
1:#s= 1 Cs= 21.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNGRS09501

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS09501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1643:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS09501 **DESCRIP:JUP_GREAT_RED_SPOT_95_DEG_01**

Jupiter Great Red Spot 95 degrees prt 1 **ACTIVITY ID: C9JNGRS09501-**
START TIME: 97-179/15:33:45.466

Activity ID: Orbit C9 Target J Inst N OAPEL GRS095 SeqNo 01 -

Title	**Jupiter Great Red Spot 95 degrees prt 1**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group** **AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001638:00:0**	**97-179/15:33:45.466**		**JEE+001/03:36:12.000**	
End	**JEE+CDS 00001648:00:0**	**97-179/15:43:52.132**		**JEE+001/03:46:18.666**	
Duration	**00000010:00:0**	**000/00:10:06.666**		**000/00:10:06.666**	

Top Label	**C9JNGRS09501-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the first of two observations obtained on a rotation with phase angle approximately 95 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near minimum airmass, assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III).

Data Returned

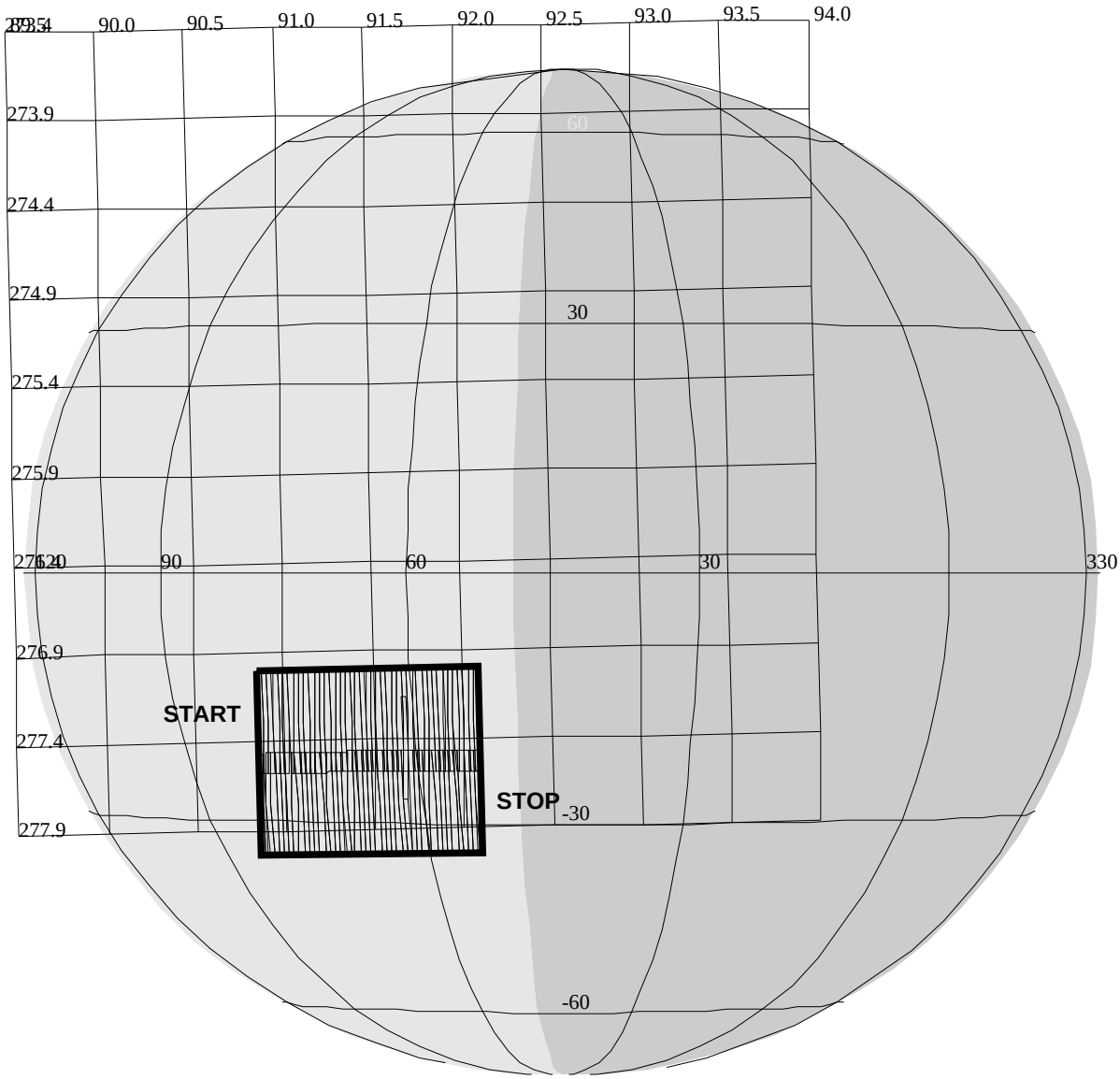
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 1.28 million KM, NIMS IFOV (NIMSel) = 640 KM; 2 X 1 mosaic covers 25600 X 12800 KM. About 200 seconds of scanning, accumulating 0.0511 MBTG in 4 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees West longitude. Observation covers 50 to 85 degrees W. longitude.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:47 rev 6/95**



165LI:TT= 0 TMC= 1 C= -8.00 XC= -4.50 BS= 0/5452 TC= 1(-23 69)
A= 728 pD= 0 SR=17.450 RA50= 46.51 DEC50= 18.66 cone= 90.84 clock=277.29
117LI:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5452
1:#s= 2 Cs= 21.70 XCs= 0.00 Cr= -21.70 XCr= 8.00 sD= 600 rD= 40

C9JNGRS09502

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNGRS09502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-178/11:57:33.466 +CDS 1672:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNGRS09502 **DESCRIP:JUP_GREAT_RED_SPOT_95_DEG_02**

Jupiter Great Red Spot 95 degrees prt 2 **ACTIVITY ID: C9JNGRS09502-**
START TIME: 97-179/16:03:04.799

Activity ID: Orbit C9 Target J Inst N OAPEL GRS095 SeqNo 02 -

Title	**Jupiter Great Red Spot 95 degrees prt 2**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group** **AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001667:00:0**	**97-179/16:03:04.799**		**JEE+001/04:05:31.333**	
End	**JEE+CDS 00001680:00:0**	**97-179/16:16:13.466**		**JEE+001/04:18:40.000**	
Duration	**00000013:00:0**	**000/00:13:08.667**		**000/00:13:08.667**	

Top Label	**C9JNGRS09502-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

One of 14 OAPELS constituting the Great Red Spot feature tracks. This is the second of two observations obtained on a rotation with phase angle approximately 95 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with the Great Red Spot near 23 degrees relative longitude, assuming feature coordinates 23 degrees south latitude (planetographic) and 69 degrees west longitude (System III)

Data Returned

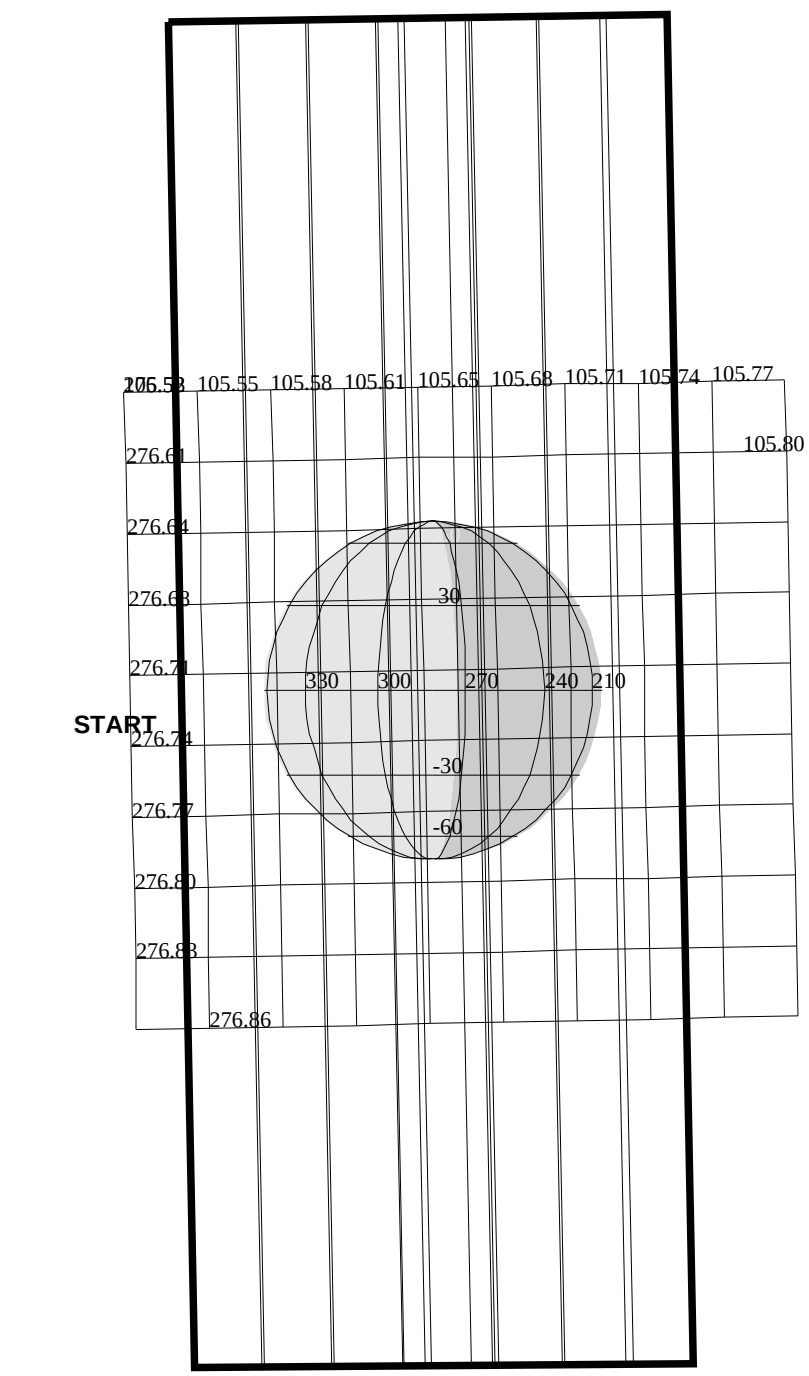
Design Detail

Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on the heart of the GRS near 69 degrees west longitude, 23 degrees south planetographic latitude.
Spacecraft distance 1.28 million KM, NIMS IFOV (NIMSel) = 640 KM; 2 X 1 mosaic covers 25600 X 23040 KM. About 420 seconds of scanning, accumulating 0.1073 MBTG in 4 colors, and using 0.01411 tracks.
Four rims reserved for targetting.

Note (5/6/97): GRS center longitude updated to 62 degrees West longitude. Observation covers 54 to 80 degrees W. longitude.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:47 rev 6/95**



Io is in Jupiter's Shadow

165LK:TT= 0 TMC= 1 C= -1.75 XC= 0.00 BS= 0/3298 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 31.70 DEC50= 14.70 cone=105.55 clock=276.72
117LK:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/3298
1:#s= 2 Cs= 1.15 XCs= 0.00 Cr= -0.40 XCr= 0.00 sD= 220 rD= 26

C9INCHEMIS06

DESIGN G3.1 jdods: 6/11/1997 13:29:39

FILE:P.C9INCHEMIS06

TARGET BODY : IO

MINI:m.C9INCHEMIS06

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 97-179/02:31:09.466 +CDS 961:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:C9INCHEMIS06 **DESCRIP:Io Chemis 6**

Monitoring of Io’s Dayside	ACTIVITY ID: C9INCHEMIS06- START TIME: 97-179/18:37:46.799

Activity ID: Orbit C9 Target I Inst N OAPEL CHEMIS SeqNo 06 -

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

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	IEE+CDS 00000956:00:0	97-179/18:37:46.799		IEE+000/16:06:37.333	
End	IEE+CDS 00000966:00:0	97-179/18:47:53.466		IEE+000/16:16:44.000	
Duration	00000010:00:0	000/00:10:06.667		000/00:10:06.667	

Top Label	C9INCHEMIS06-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

Design Detail

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

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

Targetting time is 3 RIMS.

Io is in Jupiter’s Shadow.

Long Map (LM), Gain 2, Grating Start 0, LPU, C9ILM243C, C9ILM228C

Galileo Activity Plan Form 06/09/97 10:29:47 rev 6/95

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Jupiter Feature Track Window	**ACTIVITY ID: C9JNWINDOW03-** **START TIME: 97-179/20:06:45.466**

Activity ID: Orbit C9 Target J Inst N OAPEL WINDOW SeqNo 03 -

Title	**Jupiter Feature Track Window**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

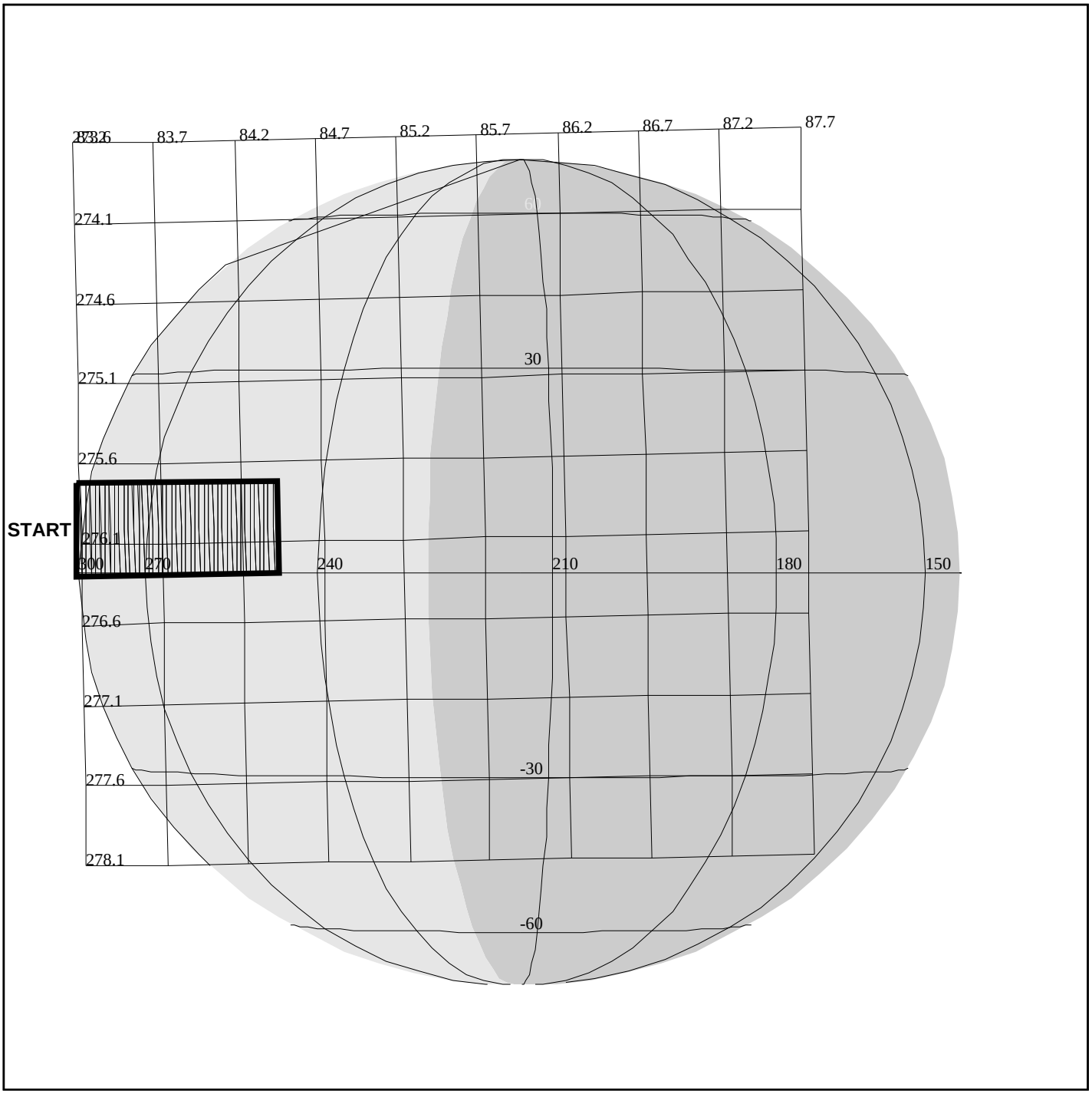
Time System	**CDS**	**Load ID**	**Calendar Date**	**06/28/97**	**Week 26**
Start	**JEE+CDS 00001908:00:0**	**97-179/20:06:45.466**		**JEE+001/08:09:12.000**	
End	**JEE+CDS 00001990:00:0**	**97-179/21:29:40.132**		**JEE+001/09:32:06.666**	
Duration	**00000082:00:0**	**000/01:22:54.666**		**000/01:22:54.666**	

Top Label	**C9JNWINDOW03-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**0**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Jupiter feature track window.

Design Detail



165LQ:TT= 0 TMC= 1 C= -11.00 XC= 0.00 BS= 0/8050 TC= 1(6.5 263)
A= 728 pD= 0 SR=17.450 RA50= 54.08 DEC50= 21.77 cone= 83.18 clock=276.01
117LQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8050
1:#s= 1 Cs= 21.90 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 600 rD= 2

C9JNFEA10201

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA10201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTE 97-178/12:16:46.133 +CDS 1942:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA10201 **DESCRIP:Jup_Fea_trk_102_deg_phase_01**

Jupiter Ftr Trk 102 deg Phase part 1	ACTIVITY ID: C9JNFEA10201- START TIME: 97-179/20:55:17.466

Activity ID: Orbit C9 Target J Inst N OAPEL FEA102 SeqNo 01 -

Title	Jupiter Ftr Trk 102 deg Phase part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	JTE+CDS 00001937:00:0	97-179/20:55:17.466		JTE+001/08:38:31.333	
End	JTE+CDS 00001946:00:0	97-179/21:04:23.466		JTE+001/08:47:37.333	
Duration	00000009:00:0	000/00:09:06.000		000/00:09:06.000	

Top Label	C9JNFEA10201-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 12 OAPELS constituting the feature tracks for the Hot Spot/Plume feature campaign. This is the first of two observations obtained on a rotation with phase angle approximately 102 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with Hot Spot/Plume feature near minimum airmass, assuming feature coordinates 8 degrees north latitude (planetographic) and nominally 249 degrees west longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume coordinate.

Data Returned

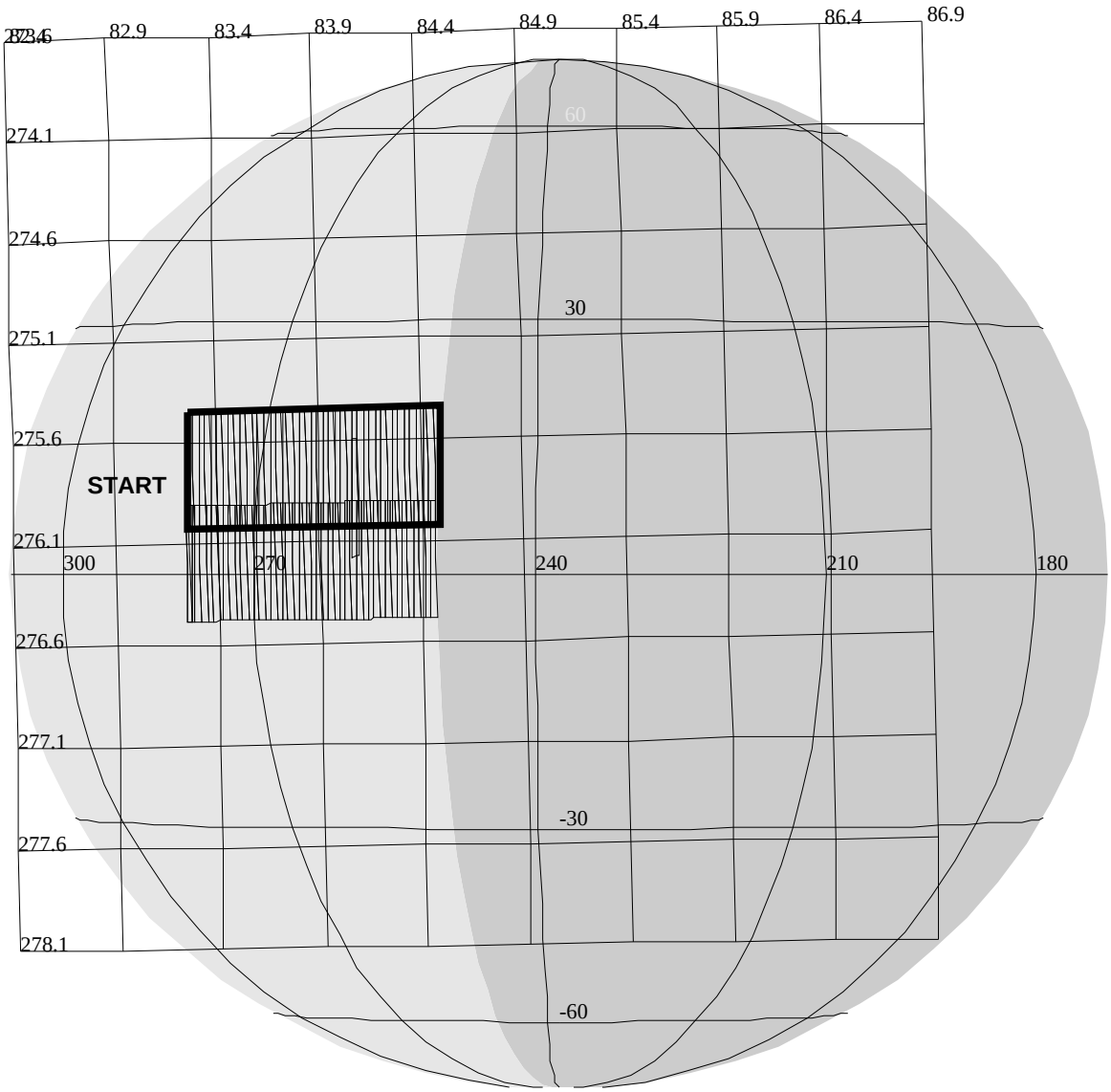
Design Detail

Short map, Nyquist-sampled observation of 2 X 1 (20 X 10 mrad) area centered on Hot Spot/Plume feature nominally near 249 degrees west longitude, 8 degrees north planetographic latitude.
Spacecraft distance 1.4 million KM, NIMS IFOV (NIMSel) = 700 KM;
2 X 1 mosaic covers 28000 X 14000 KM. About 200 seconds of scanning, accumulating 0.0511 MBTG in 4 colors, and using 0.00672 tracks.
Four rims reserved for targetting.

NOTE 5/15/97: Target coordinates chaged to 263 degrees West longitude, 6.5 degrees North latitude, to encompass both hotspot and plume head.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:47 rev 6/95



165LR:TT= 0 TMC= 1 C= -22.00 XC= -4.50 BS= 0/5330 TC= 1(6.5 249)
A= 728 pD= 0 SR=17.450 RA50= 53.91 DEC50= 21.98 cone= 83.29 clock=275.76
117LR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5330
1:#s= 2 Cs= 21.90 XCs= 0.00 Cr= -21.90 XCr= 8.00 sD= 600 rD= 40

C9JNFEA10202

TARGET G3.1 jdods: 6/ 3/1997 15: 7: 4

FILE:P.C9JNFEA10202

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTE 97-178/12:16:46.133 +CDS 1982:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.850**

OBSERVATION:C9JNFEA10202 **DESCRIP:Jup_Fea_trk_102_deg_phase_02**

Jupiter Ftr Trk 102 deg Phase part 2	ACTIVITY ID: C9JNFEA10202- START TIME: 97-179/21:35:44.133

Activity ID: Orbit C9 Target J Inst N OAPEL FEA102 SeqNo 02 -

Title	Jupiter Ftr Trk 102 deg Phase part 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	JTE+CDS 00001977:00:0	97-179/21:35:44.133		JTE+001/09:18:58.000	
End	JTE+CDS 00001990:00:0	97-179/21:48:52.799		JTE+001/09:32:06.666	
Duration	00000013:00:0	000/00:13:08.666		000/00:13:08.666	

Top Label	C9JNFEA10202-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of 12 OAPELS constituting the feature tracks for the Hot Spot/Plume feature campaign. This is the second of two observations obtained on a rotation with phase angle approximately 102 degrees. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A. This observation acquired with Hot Spot/Plume feature near evening terminator, assuming feature coordinates 8 degrees north latitude (planetographic) and nominally 249 degrees west longitude (System III).
This OAPEL incorporated inside a slide-able window to allow targetting of the best Hot Spot/Plume coordinate.

Note: OAPEL FEA10203 deleted on 12/12/95 to accomodate UVS Neutral Cloud observation. Resources re-allocated here.
Data Returned

Design Detail

Short map, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on Hot Spot/Plume feature nominally near 249 degrees west longitude, 8 degrees north planetographic latitude.
Spacecraft distance 1.4 million KM, NIMS IFOV (NIMSel) = 700 KM;
2 X 2 mosaic covers 28000 X 25200 KM. About 420 seconds of scanning, including 20 seconds of reposition slew between tiers, accumulating 0.1073 MBTG in 4 colors, and using 0.01411 tracks.
Four rims reserved for targetting.

NOTE 5/15/97: Target coordinates chaged to 263 degrees West longitude, 6.5 degrees North latitude, to encompass both hotspot and plume head.

Only top swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:47 rev 6/95

NIMS Chopper Off	ACTIVITY ID: C9NNCHOPOF01- START TIME: 97-179/21:52:55.466

Activity ID: Orbit C9 Target N Inst N OAPEL CHOPOF SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	06/28/97 Week 26
Start	JTE+CDS 00001994:00:0	97-179/21:52:55.466		JTE+001/09:36:09.333	
End	JTE+CDS 00002005:00:0	97-179/22:04:02.799		JTE+001/09:47:16.666	
Duration	00000011:00:0	000/00:11:07.333		000/00:11:07.333	

Top Label	C9NNCHOPOF01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To preserve the NIMS chopper life.

Design Detail

Use a NIMSTAB PA to reset wavelength table with parameters
04,C4,02,00,00 and to issue a 37IOP,0,0 to put NIMS in safe.
Then:
Use two NIMS 37IST commands to turn chopper off:
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)
37IST,0,1,1,0,OFF,0,0,0 (Change Chopper 63Hz to OFF)
Also use a NIMS 37MB command to reset the mirror positions:
37MB,0,0,0,0,0,0 (00000,00000)

Transition From Cruise to Inertial Mode	**ACTIVITY ID: C9NNINERTL01-** **START TIME: 97-185/12:43:48.534**

Activity ID: Orbit C9 Target N Inst N OAPEL INERTL SeqNo 01 -

Title	**Transition From Cruise to Inertial Mode Instrument**		**NIMS**
Requestor	**NIMS-SWG/J. HUI**	**Team NIMS Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**07/04/97**	**Week 27**

Start	**DKA-CDS 00000145:00:0**	**97-185/12:43:48.534**	**DKA-000/02:26:36.666**
End	**DKA-CDS 00000095:00:0**	**97-185/13:34:21.867**	**DKA-000/01:36:03.333**
Duration	**00000050:00:0**	**000/00:50:33.333**	**000/00:50:33.333**

Top Label	**C9NNINERTL01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Transition from cruise to inertial mode to allow the following observations to occur.

Design Detail

Put comment PA on NIMS SSDF to request SEQ team to input the commands for the transition. It takes approximately 50 minutes to do this which includes warming up the gyro.

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NIMS Chopper On	ACTIVITY ID: C9NNCHOPON02- START TIME: 97-185/13:39:25.200

Activity ID: Orbit C9 Target N Inst N OAPEL CHOPON SeqNo 02 -

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

Time System	CDS	Load ID	Calendar Date 07/04/97 Week 27
Start	DKA-CDS 00000090:00:0	97-185/13:39:25.200	DKA-000/01:31:00.000
End	DKA-CDS 00000080:00:0	97-185/13:49:31.867	DKA-000/01:20:53.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	C9NNCHOPON02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

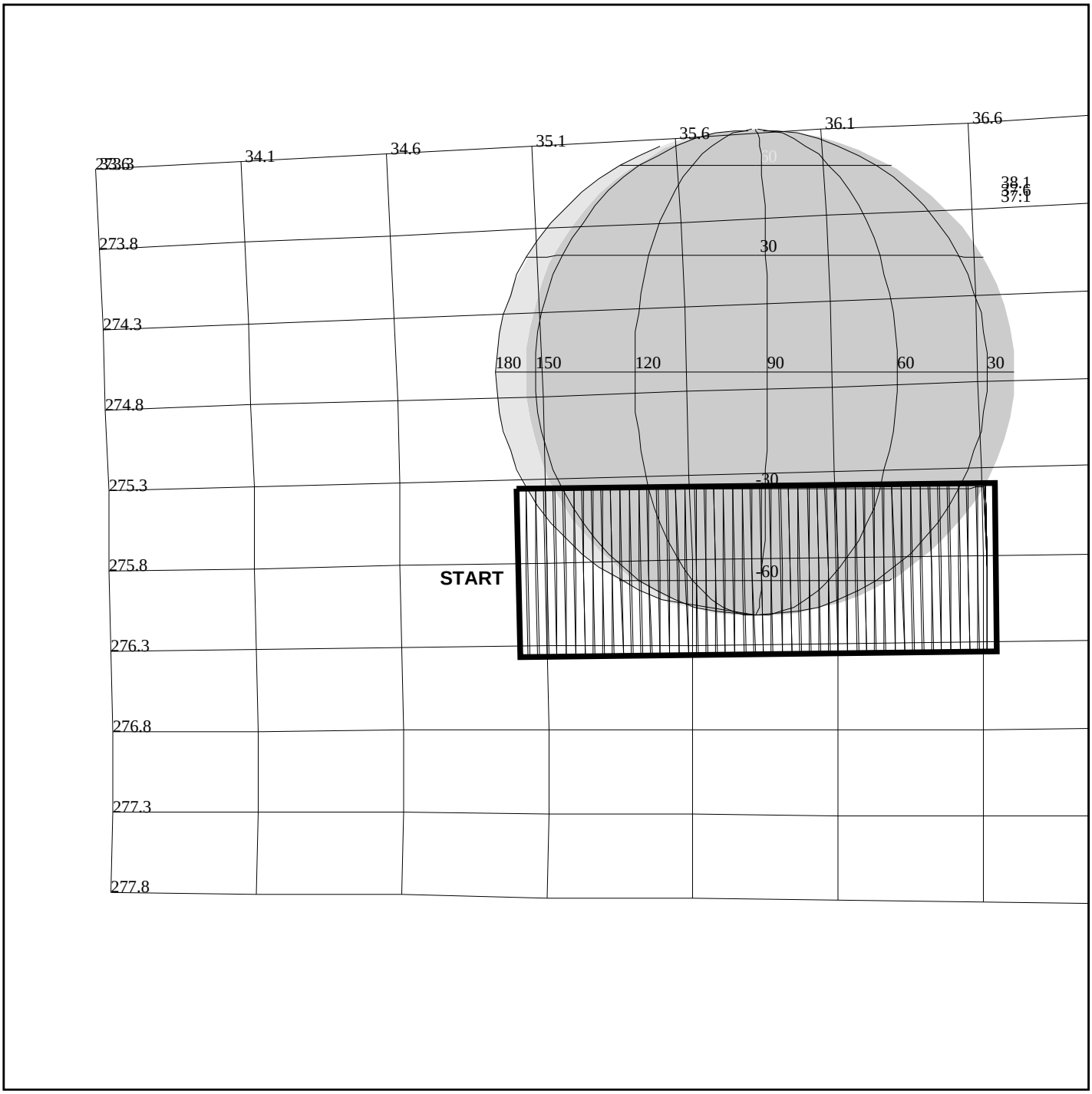
Observation Objective

Configure the NIMS instrument for orbit C9 data taking.
Turn the chopper on to Reference.
This orbit includes observations of Jupiter, Io, Callisto, Europa, Ganymede and the main ring.

Design Detail

Use NIMSINIT with the following commands.

37IST,1,0,0,OFF,0,0,0;	Chopper 63 Hz
37IST,1,2,0,OFF,0,0,0;	Chopper Ref
37MB,0,0,0,0,0;	No Mirror Blocking



165MR:TT= 0 TMC= 1 C= -14.50 XC= 0.00 BS= 0/7523 TC= 1(-55 90)
A= 728 pD= 0 SR=17.450 RA50=106.63 DEC50= 23.74 cone= 34.96 clock=275.82
117MR:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/7523
1:#s= 1 Cs= 28.00 XCs= 0.20 Cr= 0.00 XCr= 0.00 sD= 900 rD= 182

C9JNAUCAMB01

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9JNAUCAMB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 -CDS 70:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:C9JNAUCAMB01 **DESCRIP:AURORAL CAMPAIGN B MAP NO. 1**

Auroral Campaign B Map No. 1	**ACTIVITY ID: C9JNAUCAMB01-** **START TIME: 97-185/13:54:35.200**

Activity ID: Orbit C9 Target J Inst N OAPEL AUCAMB SeqNo 01 -

Title	**Auroral Campaign B Map No. 1**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**07/04/97**	**Week 27**

Start	**DKA-CDS 00000075:00:0**	**97-185/13:54:35.200**	**DKA-000/01:15:50.000**
End	**DKA-CDS 00000065:00:0**	**97-185/14:04:41.867**	**DKA-000/01:05:43.333**
Duration	**00000010:00:0**	**000/00:10:06.667**	**000/00:10:06.667**

Top Label	**C9JNAUCAMB01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

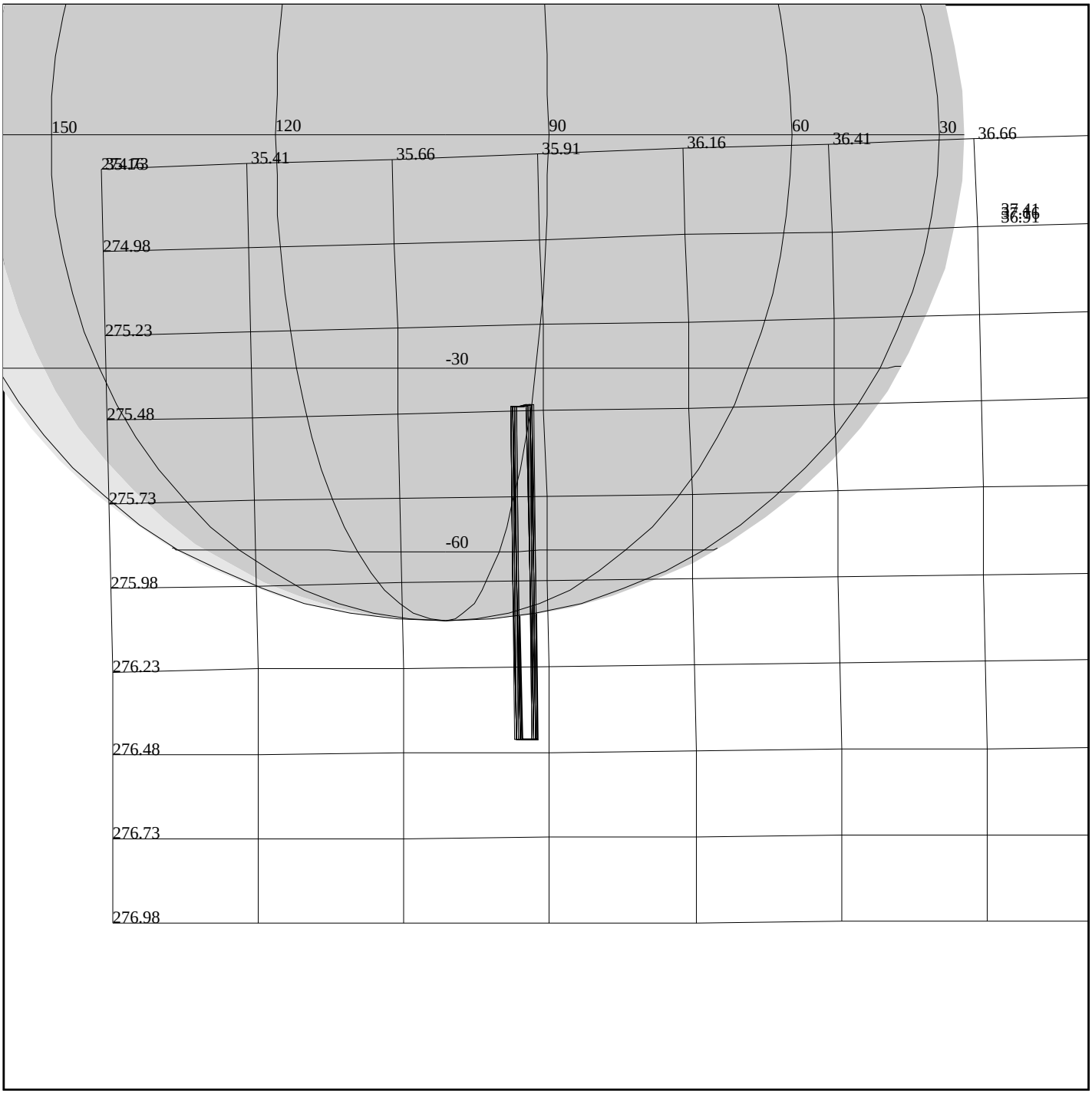
First of two South Auroral maps in shortmap, for camparison with In-Situ Fields and Particles measurements acquired during the FPSG Campaign B of the Transauroral Region.

Data Returned

Design Detail

Shortmap, Nyquist sampled, 3 X 1 map centered at 55 degrees South, 310 degrees West longitude on the Central Meridian. Observation takes 300 seconds using 0.010 tracks, 4 RIMS reserved for targetting. Total duration: 00:09:00.

Full Map (FM), Gain 4, Grating Start 0, LPU, C9B_JAU126A, C9B_JAU126A



165MS:TT= 0 TMC= 1 C= -0.35 XC= 0.00 BS= 0/0071 TC= 1(-65 79.30)
A= 182 pD= 0 SR=17.450 RA50=105.64 DEC50= 23.79 cone= 35.87 clock=275.96

C9JNAURRTB01

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9JNAURRTB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 -CDS 56:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9JNAURRTB01 **DESCRIP:AURORAL CAMPAIGN B REAL-TIME 1**

Auroral Campaign B Real-Time No. 1	**ACTIVITY ID: C9JNAURRTB01-** **START TIME: 97-185/14:09:45.200**

Activity ID: Orbit C9 Target J Inst N OAPEL AURRTB SeqNo 01 -

Title	**Auroral Campaign B Real-Time No. 1**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**07/04/97**	**Week 27**
Start	**DKA-CDS 00000060:00:0**	**97-185/14:09:45.200**		**DKA-000/01:00:40.000**	
End	**DKA-CDS 00000051:00:0**	**97-185/14:18:51.200**		**DKA-000/00:51:34.000**	
Duration	**00000009:00:0**	**000/00:09:06.000**		**000/00:09:06.000**	

Top Label	**C9JNAURRTB01-**				
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

First of five real-time longmap spectra of the South Aurora in association with the FPSG/NIMS Campaign B. This spectral set is used to compare to the 2 NIMS maps associated with this campaign, to compare to other spectral sets, and to compare to FPSG measurements.

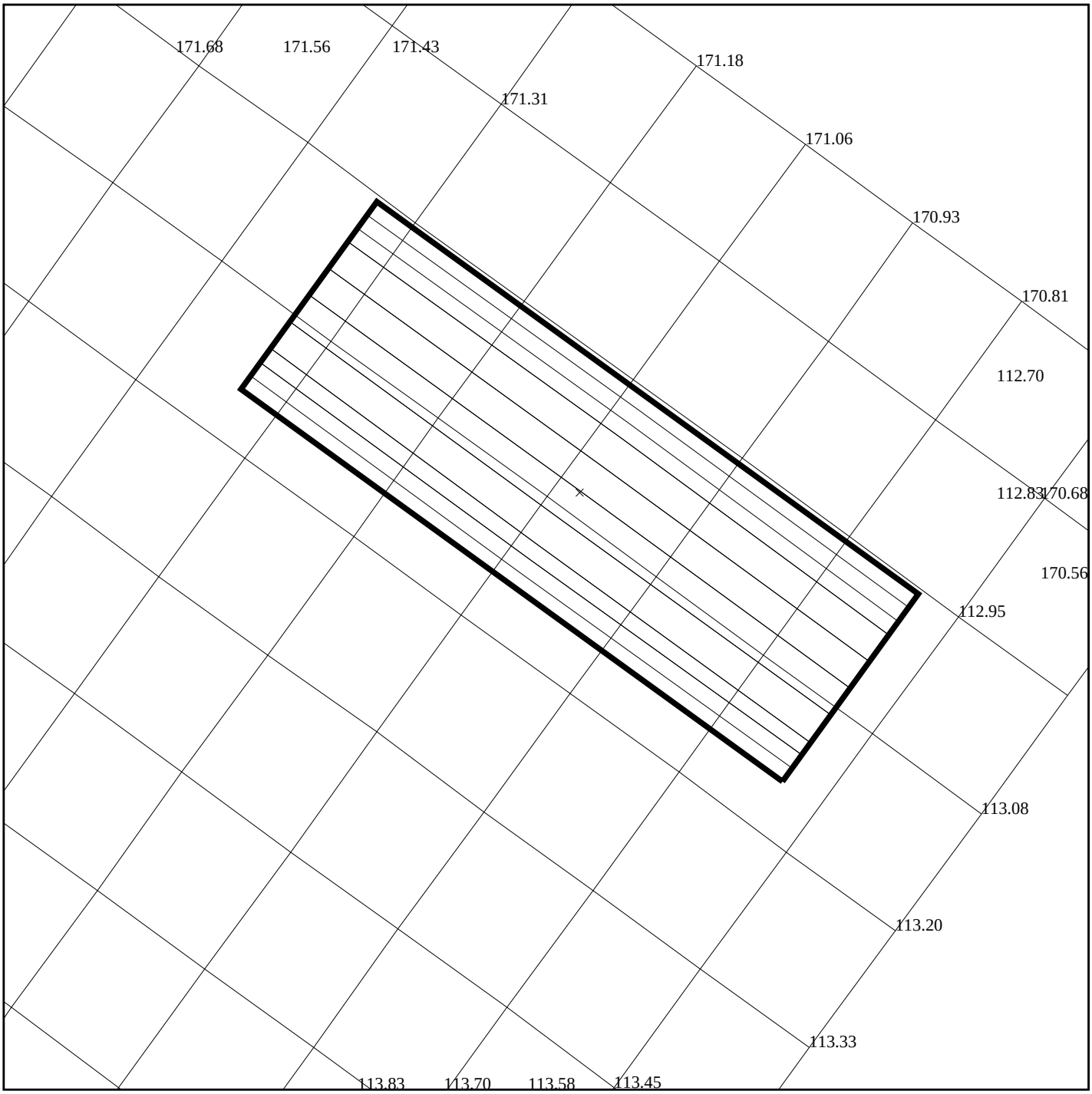
Data Returned

Design Detail

Real-time longmap spectra centered near the Central Meridian 65 degrees South, 300 degrees West longitude.
Five spectra are taken during the first 12 minor frames of each RIM to correct for boom effects.
Four RIMS used for targetting.

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

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



165EP:TT= 0 TMC= 1 C= 1.50 XC= 0.00 BS= 0/1891 TC=14(Vega)
A= 728 pD= 0 SR=17.450 RA50=278.89 DEC50= 38.68 cone=113.14 clock=171.04
117EP:#SB= 1 OR= 0.760 RR=12.000 BM=F RC= 1 BS= 0/1891
1:#s= 42 Cs= -3.00 XCs= 0.00 Cr= 3.00 XCr= 0.00 sD= 30 rD= 20

C9HNSTRCAL01

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9HNSTRCAL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 -CDS 46:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:C9HNSTRCAL01 **DESCRIP:NIMS_Vega_Star_Calibration**

NIMS Star Calibration — ACTIVITY ID: C9HNSTRCAL01- / START TIME: 97-185/14:19:41.867

Activity ID: Orbit C9 Target H Inst N OAPEL STRCAL SeqNo 01 -

Title	NIMS Star Calibration			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	07/04/97 Week 27
Start	DKA-CDS 00000050:15:0	97-185/14:19:41.867		DKA-000/00:50:43.333	
End	DKA-CDS 00000034:00:0	97-185/14:36:02.534		DKA-000/00:34:22.666	
Duration	00000016:15:0	000/00:16:20.667		000/00:16:20.667	

Top Label	C9HNSTRCAL01-				
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

NIMS star calibration using Vega (part 1).
All detectors, grating positions 0-11.
NIMS, XM (Fixed Map), Grating Start = 0, Gain = 4

Build a NIMS spectrum of Vega in real-time by stepping through grating start positions in Fixed Map mode.
One Rim per grating start position.

Data Returned

Design Detail

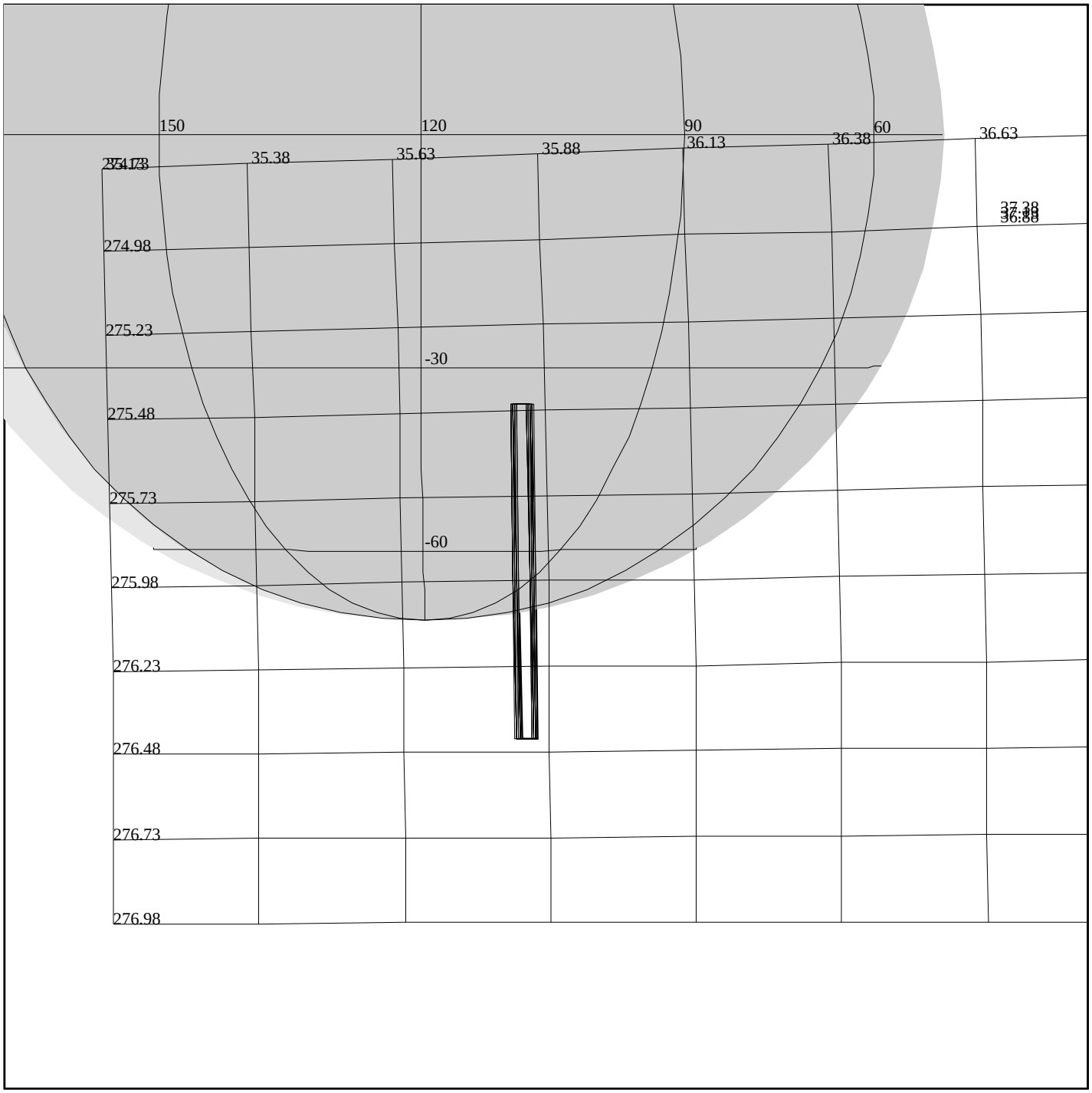
Target to Vega (RA = 278.88 Deg., DEC = 38.67 Deg).
Offset in cone = 3minutes.
Box CSMOS across Vega.
Select NIMS real-time before, for 12 RIMS, plus or minus 30mf.
Mirror Block to return central mirror positions (11011,11011).
Each RIM, use 37IOP to step grating start 0-11 in Fixed Map (XM).

Check gain, ETB, Mode, MB for entry into next Jupiter observation.

Aliases for grating positions 0-11:
C9HNSTRCAL01, C9HNSTRCAL02, C9HNSTRCAL03, C9HNSTRCAL04,
C9HNSTRCAL05, C9HNSTRCAL06, C9HNSTRCAL07, C9HNSTRCAL08,
C9HNSTRCAL09, C9HNSTRCAL10, C9HNSTRCAL11, C9HNSTRCAL12

Fixed Map (XM), Gain 4, Grating Start 0-11, R/T, SXM17

Galileo Activity Plan Form 06/09/97 10:29:48 rev 6/95 f



165MU:TT= 0 TMC= 1 C= -0.35 XC= 0.00 BS= 0/5531 TC= 1(-65 92.02)
A= 728 pD= 0 SR=17.450 RA50=105.68 DEC50= 23.79 cone= 35.84 clock=275.95

C9JNAURRTB02

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9JNAURRTB02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 -CDS 26:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9JNAURRTB02 **DESCRIP:AURORAL CAMPAIGN B REAL-TIME 2**

Auroral Campaign B Real-Time No. 2 — **ACTIVITY ID: C9JNAURRTB02-** / **START TIME: 97-185/14:39:04.534**

Activity ID: Orbit C9 Target J Inst N OAPEL AURRTB SeqNo 02 -

Title	**Auroral Campaign B Real-Time No. 2**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**07/04/97**	**Week 27**

Start	**DKA-CDS 00000031:00:0**	**97-185/14:39:04.534**	**DKA-000/00:31:20.666**
End	**DKA-CDS 00000021:00:0**	**97-185/14:49:11.200**	**DKA-000/00:21:14.000**
Duration	**00000010:00:0**	**000/00:10:06.666**	**000/00:10:06.666**

Top Label	**C9JNAURRTB02-**				
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

Second of five real-time longmap spectra of the South Aurora in association with the FPSG/NIMS Campaign B. This spectral set is used to compare to the 2 NIMS maps associated with this campaign, to compare to other spectral sets, and to compare to FPSG measurements.

Data Returned

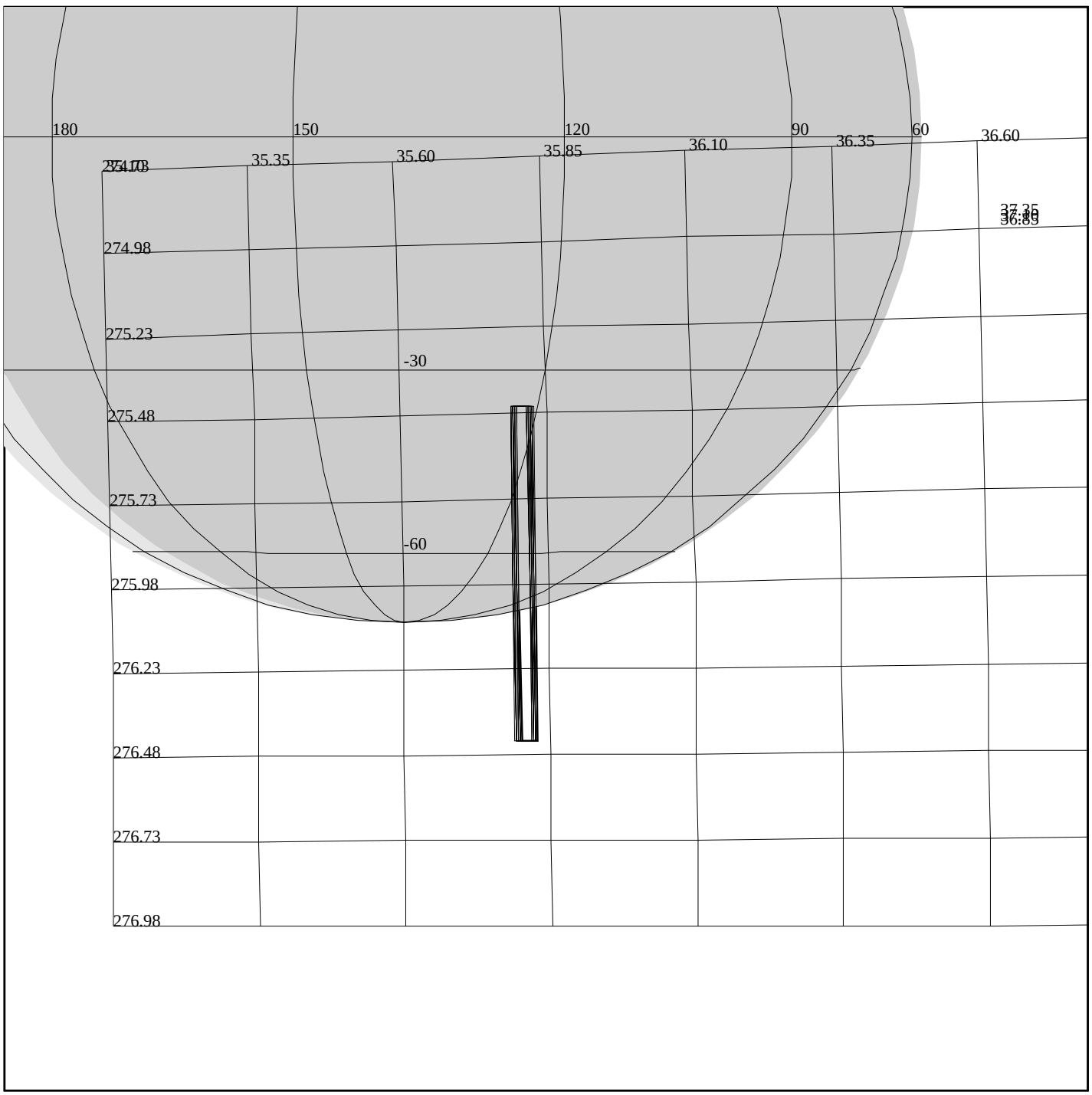
Design Detail

Real-time longmap spectra centered at the Central Meridian 65 degrees South, 320 degrees West longitude.
Five spectra are taken during the first 12 minor frames of each RIM to correct for boom effects.
Four RIMS used for targetting.

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

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

Galileo Activity Plan Form **06/09/97 10:29:48 rev 6/95**



165MV:TT= 0 TMC= 1 C= -0.35 XC= 0.00 BS= 0/0991 TC= 1(-65 104.26)
A= 484 pD= 0 SR=17.450 RA50=105.71 DEC50= 23.79 cone= 35.81 clock=275.95

C9JNAURRTB03

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9JNAURRTB03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 +CDS 4:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9JNAURRTB03 **DESCRIP:AURORAL CAMPAIGN B REAL-TIME 3**

Auroral Campaign B Real-Time No. 3	**ACTIVITY ID: C9JNAURRTB03-** **START TIME: 97-185/15:10:25.200**

Activity ID: Orbit C9 Target J Inst N OAPEL AURRTB SeqNo 03 -

Title	**Auroral Campaign B Real-Time No. 3**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**07/04/97 Week 27**
Start	**DKA+CDS 00000000:00:0**	**97-185/15:10:25.200**		**DKA+000/00:00:00.000**	
End	**DKA+CDS 00000009:00:0**	**97-185/15:19:31.200**		**DKA+000/00:09:06.000**	
Duration	**00000009:00:0**	**000/00:09:06.000**		**000/00:09:06.000**	

Top Label	**C9JNAURRTB03-**				
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

Third of five real-time longmap spectra of the South Aurora in association with the FPSG/NIMS Campaign B. This spectral set is used to compare to the 2 NIMS maps associated with this campaign, to compare to other spectral sets, and to compare to FPSG measurements.

Data Returned

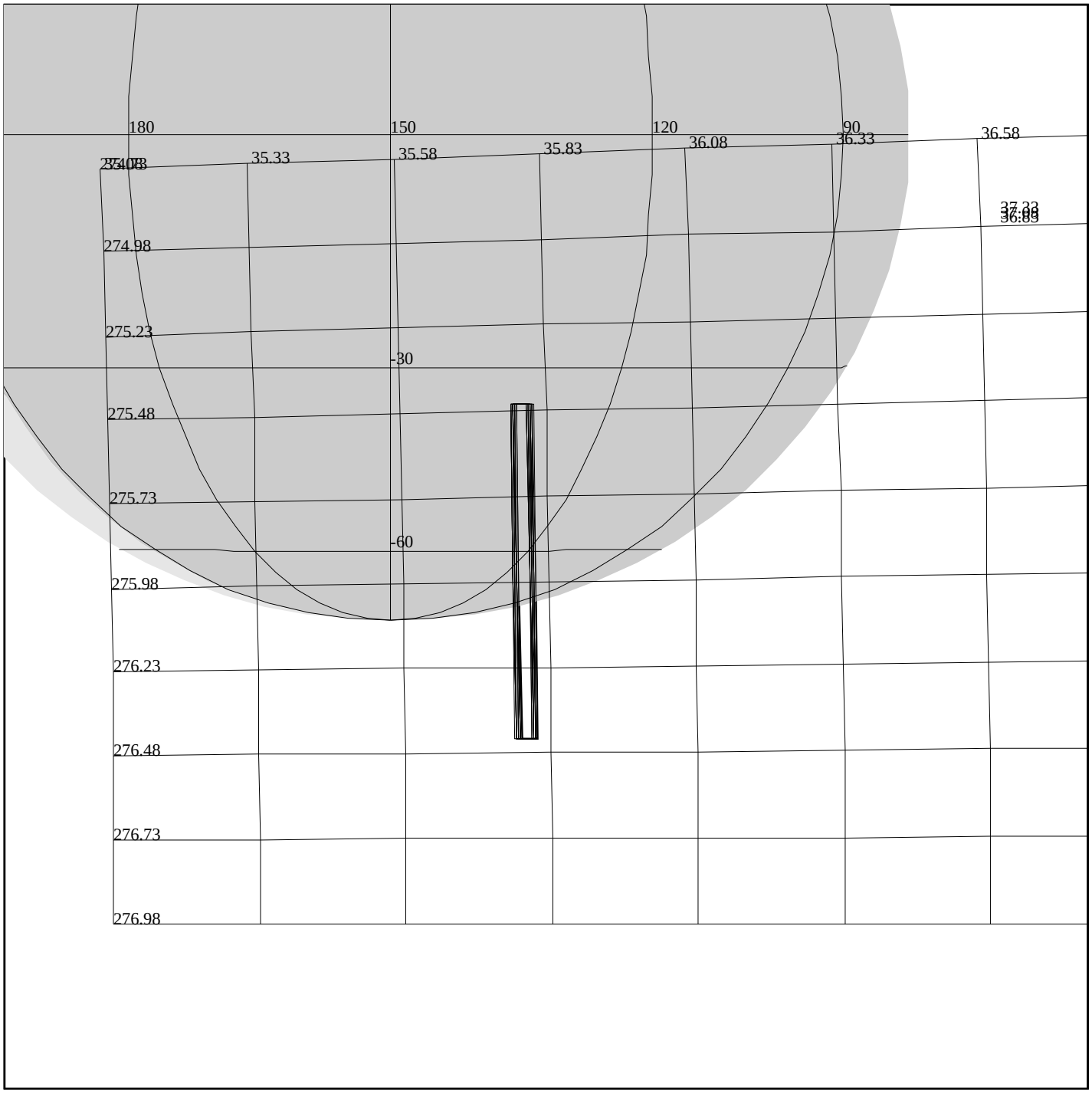
Design Detail

Real-time longmap spectra centered at the Central Meridian 65 degrees South, 345 degrees West longitude.
Five spectra are taken during the first 12 minor frames of each RIM to correct for boom effects.
Four RIMS used for targetting.

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

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

Galileo Activity Plan Form 06/09/97 10:29:48 rev 6/95



165DB:TT= 0 TMC= 1 C= -0.35 XC= 0.00 BS= 0/4631 TC= 1(-65 112.47)
A= 484 pD= 0 SR=17.450 RA50=105.73 DEC50= 23.79 cone= 35.78 clock=275.95

C9JNAURRTB04

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9JNAURRTB04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 +CDS 24:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9JNAURRTB04 **DESCRIP:AURORAL CAMPAIGN B REAL-TIME 4**

Auroral Campaign B Real-Time No. 4 — **ACTIVITY ID: C9JNAURRTB04-** / **START TIME: 97-185/15:30:38.533**

Activity ID: Orbit C9 Target J Inst N OAPEL AURRTB SeqNo 04 -

Title	**Auroral Campaign B Real-Time No. 4**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**07/04/97**	**Week 27**
Start	**DKA+CDS 00000020:00:0**	**97-185/15:30:38.533**		**DKA+000/00:20:13.333**	
End	**DKA+CDS 00000029:00:0**	**97-185/15:39:44.533**		**DKA+000/00:29:19.333**	
Duration	**00000009:00:0**	**000/00:09:06.000**		**000/00:09:06.000**	

Top Label	**C9JNAURRTB04-**				
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

Fourth of five real-time longmap spectra of the South Aurora in association with the FPSG/NIMS Campaign B. This spectral set is used to compare to the 2 NIMS maps associated with this campaign, to compare to other spectral sets, and to compare to FPSG measurements.

Data Returned

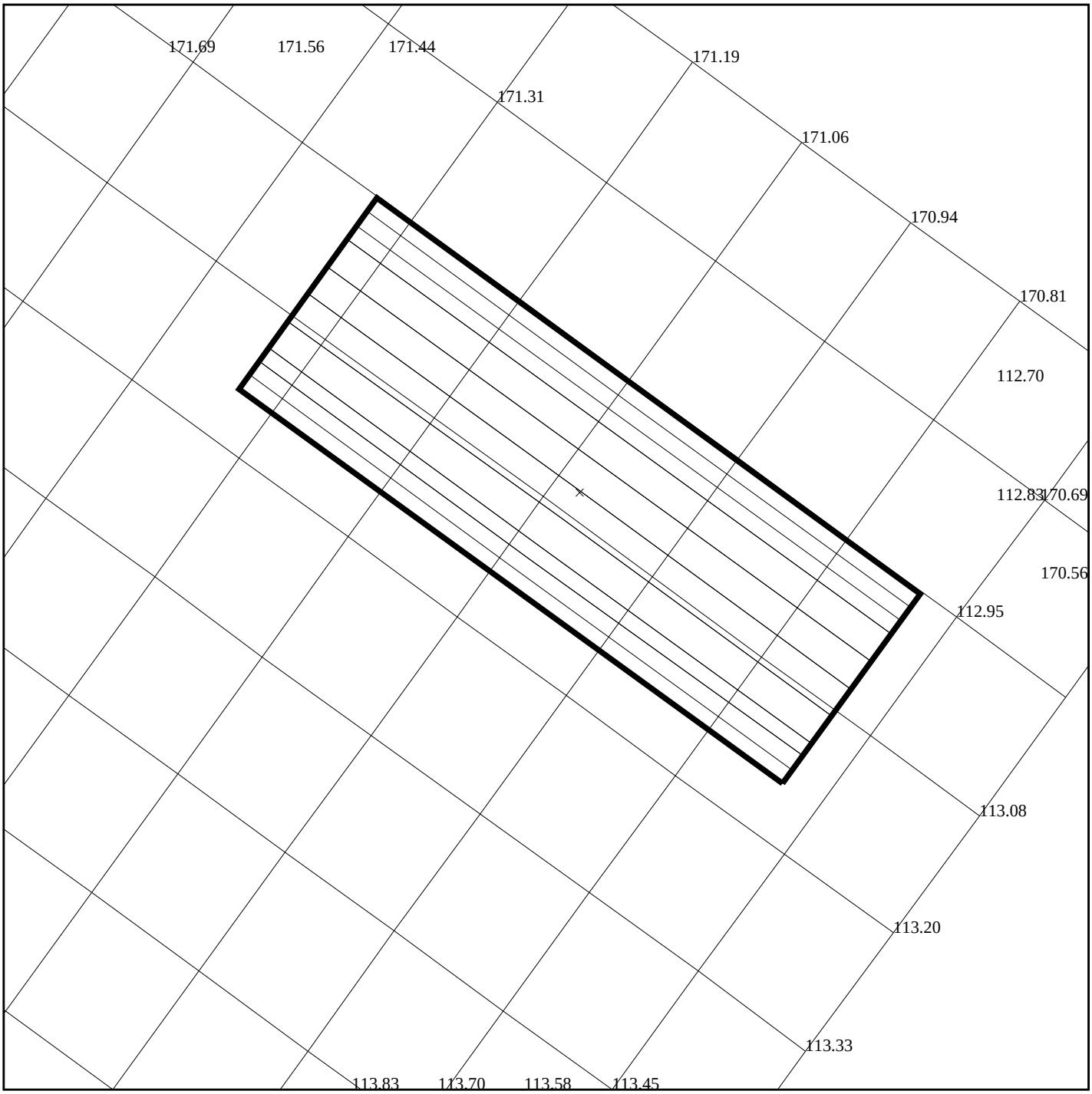
Design Detail

Real-time longmap spectra centered near the Central Meridian 65 degrees South, 355 degrees West longitude.
Five spectra are taken during the first 12 minor frames ofeach RIM to correct for boom effects.
Four RIMS used for targetting.

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

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

Galileo Activity Plan Form **06/09/97 10:29:48 rev 6/95**



165DA:TT= 0 TMC= 1 C= 1.50 XC= 0.00 BS= 0/6451 TC=14(Vega)
A= 728 pD= 0 SR=17.450 RA50=278.89 DEC50= 38.68 cone=113.14 clock=171.04
117DA:#SB= 1 OR= 0.760 RR=12.000 BM=F RC= 1 BS= 0/6451
1:#s= 42 Cs= -3.00 XCs= 0.00 Cr= 3.00 XCr= 0.00 sD= 30 rD= 16

C9HNSTRCAL02

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9HNSTRCAL02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 +CDS 34:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:C9HNSTRCAL02 **DESCRIP:NIMS_Vega_Star_Calibration**

NIMS Star Calibration — ACTIVITY ID: C9HNSTRCAL02- — START TIME: 97-185/15:40:35.200

Activity ID: Orbit C9 Target H Inst N OAPEL STRCAL SeqNo 02 -

Title	NIMS Star Calibration			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	07/04/97 Week 27
Start	DKA+CDS 00000029:76:0	97-185/15:40:35.200		DKA+000/00:30:10.000	
End	DKA+CDS 00000046:00:0	97-185/15:56:55.866		DKA+000/00:46:30.666	
Duration	00000016:15:0	000/00:16:20.666		000/00:16:20.666	

Top Label	C9HNSTRCAL02-				
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

NIMS star calibration using Vega (part 2).
All detectors, grating positions 12-23.
NIMS, XM (Fixed Map), Grating Start = 0, Gain = 4

Build a NIMS spectrum of Vega in real-time by stepping through grating start positions in Fixed Map mode.
One Rim per grating start position.

Data Returned

Design Detail

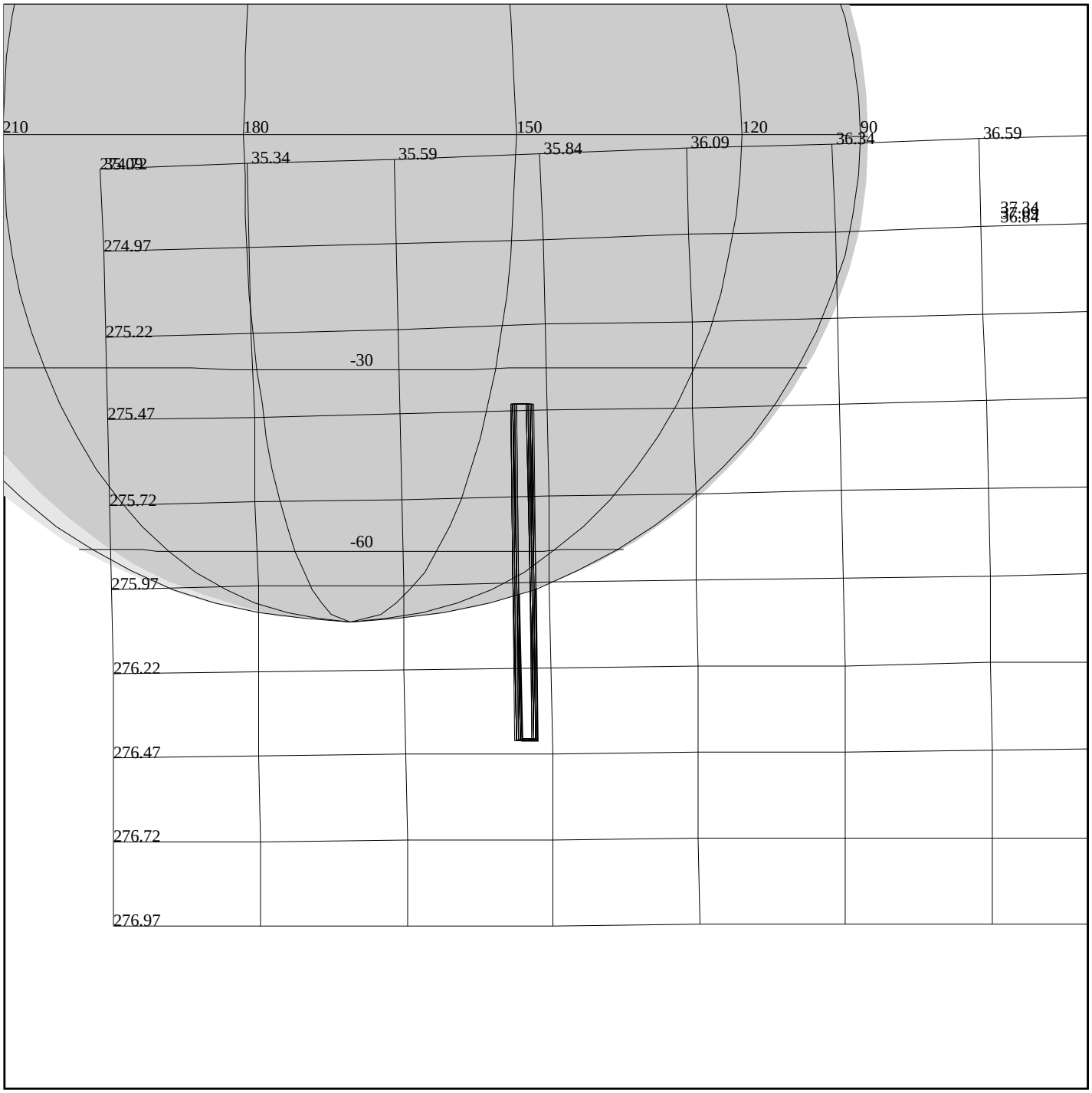
Target to Vega (RA = 278.88 Deg., DEC = 38.67 Deg).
Offset in cone = 3minutes.
Box CSMOS across Vega.
Select NIMS real-time before, for 12 RIMS, plus or minus 30mf.
Mirror Block to return central mirror positions (11011,11011).
Each RIM, use 37IOP to step grating start 12-23 in Fixed Map (XM).

Check gain, ETB, Mode, MB for entry into next Jupiter observation.

Aliases for grating positions 12-23:
C9HNSTRCAL13, C9HNSTRCAL14, C9HNSTRCAL15, C9HNSTRCAL16,
C9HNSTRCAL17, C9HNSTRCAL18, C9HNSTRCAL19, C9HNSTRCAL20,
C9HNSTRCAL21, C9HNSTRCAL22, C9HNSTRCAL23, C9HNSTRCAL24

Fixed Map (XM), Gain 4, Grating Start 12-23, R/T, SXM17

Galileo Activity Plan Form 06/09/97 10:29:48 rev 6/95 f



165MX:TT= 0 TMC= 1 C= -0.35 XC= 0.00 BS= 0/0091 TC= 1(-65 116.70)
A= 484 pD= 0 SR=17.450 RA50=105.73 DEC50= 23.79 cone= 35.79 clock=275.94

C9JNAURRTB05

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9JNAURRTB05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 +CDS 54:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C9JNAURRTB05 **DESCRIP:AURORAL CAMPAIGN B REAL-TIME 5**

Auroral Campaign B Real-Time No. 5	**ACTIVITY ID: C9JNAURRTB05-** **START TIME: 97-185/16:00:58.533**

Activity ID: Orbit C9 Target J Inst N OAPEL AURRTB SeqNo 05 -

Title	**Auroral Campaign B Real-Time No. 5**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**07/04/97**	**Week 27**
Start	**DKA+CDS 00000050:00:0**	**97-185/16:00:58.533**		**DKA+000/00:50:33.333**	
End	**DKA+CDS 00000059:00:0**	**97-185/16:10:04.533**		**DKA+000/00:59:39.333**	
Duration	**00000009:00:0**	**000/00:09:06.000**		**000/00:09:06.000**	

Top Label	**C9JNAURRTB05-**				
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

Fifth of five real-time longmap spectra of the South Aurora in association with the FPSG/NIMS Campaign B. This spectral set is used to compare to the 2 NIMS maps associated with this campaign, to compare to other spectral sets, and to compare to FPSG measurements.

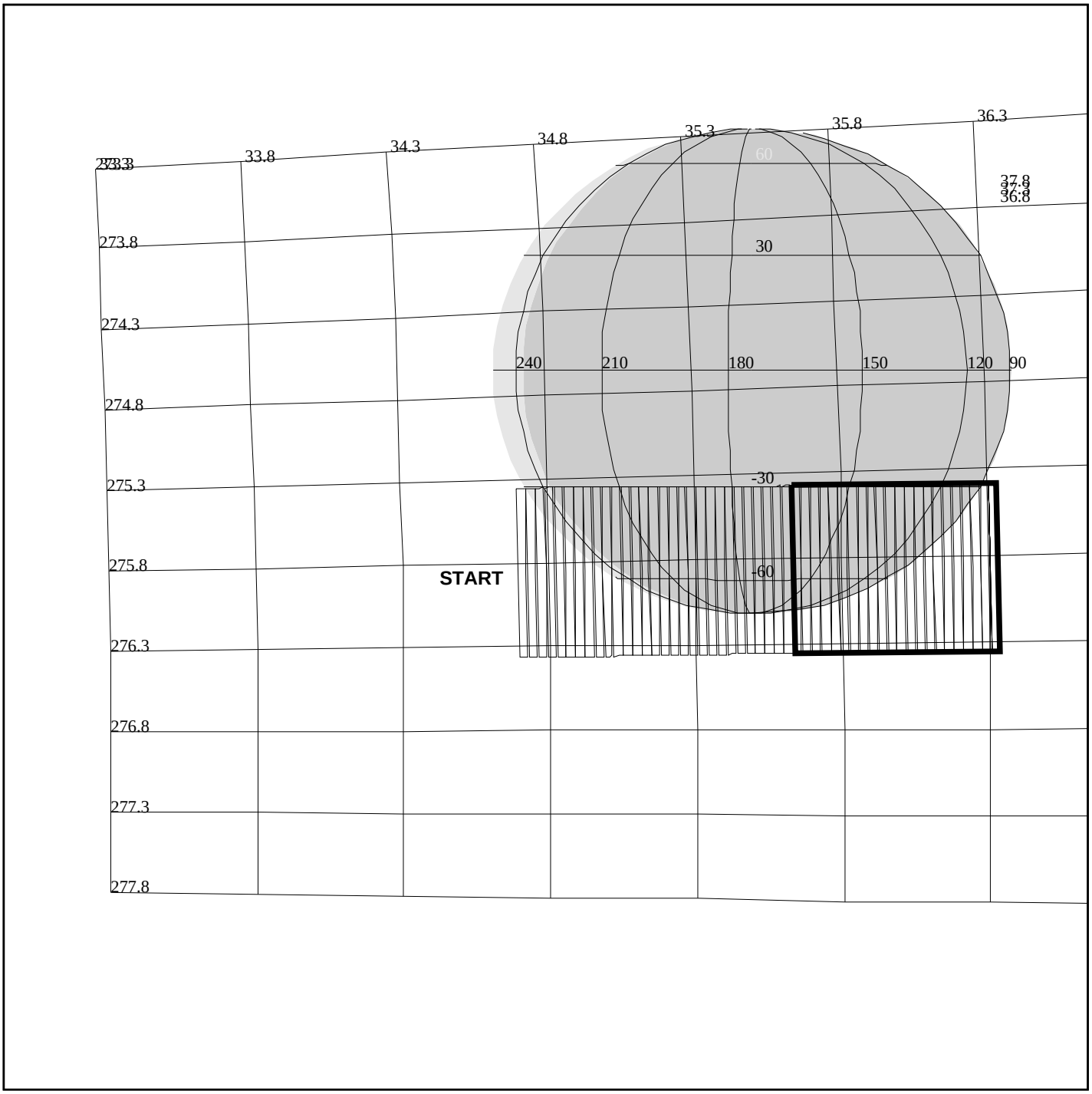
Data Returned

Design Detail

Real-time longmap spectra centered near the Central Meridian 65 degrees South, 20 degrees West longitude.
Five spectra are taken during the first 12 minor frames of each RIM to correct for boom effects.
Four RIMS used for targetting.

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

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



165MT:TT= 0 TMC= 1 C= -23.00 XC= 0.00 BS= 0/2093 TC= 1(-55 90)
A= 484 pD= 0 SR=17.450 RA50=106.93 DEC50= 23.70 cone= 34.68 clock=275.81
117MT:#SB= 1 OR= 0.110 RR=12.000 BM=F RC= 1 BS= 0/2093
1:#s= 1 Cs= 28.00 XCs= 0.20 Cr= 0.00 XCr= 0.00 sD= 900 rD= 2

C9JNAUCAMB02

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9JNAUCAMB02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:DKA 97-185/15:10:25.200 +CDS 65:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:C9JNAUCAMB02 **DESCRIP:AURORAL CAMPAIGN B MAP NO. 2**

Auroral Campaign B Map No. 2	**ACTIVITY ID: C9JNAUCAMB02-** **START TIME: 97-185/16:12:05.866**

Activity ID: Orbit C9 Target J Inst N OAPEL AUCAMB SeqNo 02 -

Title	**Auroral Campaign B Map No. 2**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**07/04/97**	**Week 27**

Start	**DKA+CDS 00000061:00:0**	**97-185/16:12:05.866**	**DKA+000/01:01:40.666**
End	**DKA+CDS 00000070:00:0**	**97-185/16:21:11.866**	**DKA+000/01:10:46.666**
Duration	**00000009:00:0**	**000/00:09:06.000**	**000/00:09:06.000**

Top Label	**C9JNAUCAMB02-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

Second of two South Auroral maps in shortmap, for camparison with In-Situ Fields and Particles measurements acquired during the FPSG Campaign B of the Transauroral Region.

Data Returned

Design Detail

Shortmap, Nyquist sampled, 3 X 1 map centered at 55 degrees South, 300 degrees West longitude on the Central Meridian.
Observation takes 300 seconds using 0.010 tracks, 4 RIMS reserved for targetting. Total duration: 00:09:00.

First half of observation lost, never recovered.

Full Map (FM), Gain 4, Grating Start 0, LPU, C9B_JAU126A, C9B_JAU126A

NIMS Chopper Off	ACTIVITY ID: C9NNCHOPOF02- START TIME: 97-185/16:22:12.533

Activity ID: Orbit C9 Target N Inst N OAPEL CHOPOF SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	07/04/97 Week 27
Start	DKA+CDS 00000071:00:0	97-185/16:22:12.533		DKA+000/01:11:47.333	
End	DKA+CDS 00000082:00:0	97-185/16:33:19.866		DKA+000/01:22:54.666	
Duration	00000011:00:0	000/00:11:07.333		000/00:11:07.333	

Top Label	C9NNCHOPOF02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To preserve the NIMS chopper life.

Design Detail

Use a NIMSTAB PA to reset wavelength table with parameters
04,C4,02,00,00 and to issue a 37IOP,0,0 to put NIMS in safe.
Then:
Use two NIMS 37IST commands to turn chopper off:
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)
37IST,0,1,1,0,OFF,0,0,0 (Change Chopper 63Hz to OFF)
Also use a NIMS 37MB command to reset the mirror positions:
37MB,0,0,0,0,0,0 (00000,00000)

Tranisition from Inertial to Curise Mode ACTIVITY ID: C9NNCRUISE01-
START TIME: 97-185/16:23:13.200

Activity ID: Orbit C9 Target N Inst N OAPEL CRUISE SeqNo 01 -

Title	Tranisition from Inertial to Curise Mode	Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS Working Group SWG

Time System	CDS	Load ID	Calendar Date 07/04/97 Week 27
Start	DKA+CDS 00000072:00:0	97-185/16:23:13.200	DKA+000/01:12:48.000
End	DKA+CDS 00000087:00:0	97-185/16:38:23.200	DKA+000/01:27:58.000
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label C9NNCRUISE01-
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

Transition from inertial to cruise mode after doing NIMS AWG science observations.

Design Detail

Put comment PA in NIMS SSDF to request SEQ to input commands for the transition. It takes approximately 15 minutes.

NIMS RCT Real Time — ACTIVITY ID: C9NNRCTRLT01-
START TIME: 97-194/09:13:54.733

Activity ID: Orbit C9 Target N Inst N OAPEL RCTRLT SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	07/13/97 Week 28
Start	RTA-CDS 00000000:00:0	97-194/09:13:54.733		RTA-000/00:00:00.000	
End	RTA+CDS 00000787:00:0	97-194/22:29:39.399		RTA+000/13:15:44.666	
Duration	00000787:00:0	000/13:15:44.666		000/13:15:44.666	

Top Label	C9NNRCTRLT01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	500	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real-time Telemetry.

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, C9RCT252

Galileo Activity Plan Form 06/09/97 10:29:48 rev 6/95 f

NIMS Real-Time PCT Calibration — ACTIVITY ID: C9NNPCTRLT01- / START TIME: 97-195/04:04:56.667

Activity ID: Orbit C9 Target N Inst N OAPEL PCTRLT SeqNo 01 -

Title	NIMS Real-Time PCT Calibration			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	07/14/97 Week 28
Start	PCT-CDS 00000005:00:0	97-195/04:04:56.667		PCT-000/00:05:03.333	
End	PCT+CDS 00000434:00:0	97-195/11:28:49.333		PCT+000/07:18:49.333	
Duration	00000439:00:0	000/07:23:52.666		000/07:23:52.666	

Top Label	C9NNPCTRLT01-				
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 special off-earthline turn in
C9 cruise when the spacecraft sun angle is 0 degrees.

This was to be the BEST NIMS PCT cal during Prime Mission.

Poor MUB management caused the NIMS PCT realtime packets to be
pushed out of the RealTime Buffer and not returned.

No Data Returned

Design Detail

1) Turn off Shield Heaters 48 hours before the calibration.
2) Turn off PCT heaters 6 hours before calibration.
3) Scan Platform is at Safe/Unstow (cone = 153.00, clock = 0.00)
4) Chopper on, Gain State 4,
5) Set NIMS to Long Map Mode, ETB = PCT252,
   Mirror Blocking (1B, 1B) (11011, 11011)
6) Select 1 RIM of Dark in Real-Time (Return 1 LM grating cycle)
7) Slew to PCT (cone = 54.88, clock = 244.07)
8) Select 10 RIMS of PCT in Real-Time (Return 10 LM grating cycles)
9) Slew to Safe (cone = 153.00, clock = 0.00)
10) NIMS to Safe Mode, Reset Mirror Blocking (00,00) (00000,00000)
11) Chopper Off

Long Map (LM), Gain 4, Grating Start 0, RT, C9PCT252

Galileo Activity Plan Form 06/09/97 10:29:48 rev 6/95

Power Mode CAL/DEC NIMS Rec Cal ACTIVITY ID: C9NNRCTRLT02-
START TIME: 97-223/01:00:21.933

Activity ID: Orbit C9 Target N Inst N OAPEL RCTRLT SeqNo 02 -

Title	Power Mode CAL/DEC NIMS Rec Cal			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	08/11/97 Week 32
Start	RTB+CDS 00000000:00:0	97-223/01:00:21.933		RTB+000/00:00:00.000	
End	RTB+CDS 00000787:00:0	97-223/14:16:06.599		RTB+000/13:15:44.666	
Duration	00000787:00:0	000/13:15:44.666		000/13:15:44.666	

Top Label	C9NNRCTRLT02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	500	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
the data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real-time Telemetry.

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, C9RCT252

Galileo Activity Plan Form 06/09/97 10:29:49 rev 6/95 f

NIMS Chopper On	ACTIVITY ID: C9NNCHOPON04- START TIME: 97-246/21:39:55.399

Activity ID: Orbit C9 Target N Inst N OAPEL CHOPON SeqNo 04 -

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

Time System	CDS	Load ID	Calendar Date 09/03/97 Week 36
Start	HPA+CDS 00001285:00:0	97-246/21:39:55.399	HPA+000/21:39:16.666
End	HPA+CDS 00001295:00:0	97-246/21:50:02.066	HPA+000/21:49:23.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label C9NNCHOPON04-
Bottom Label

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

Observation Objective

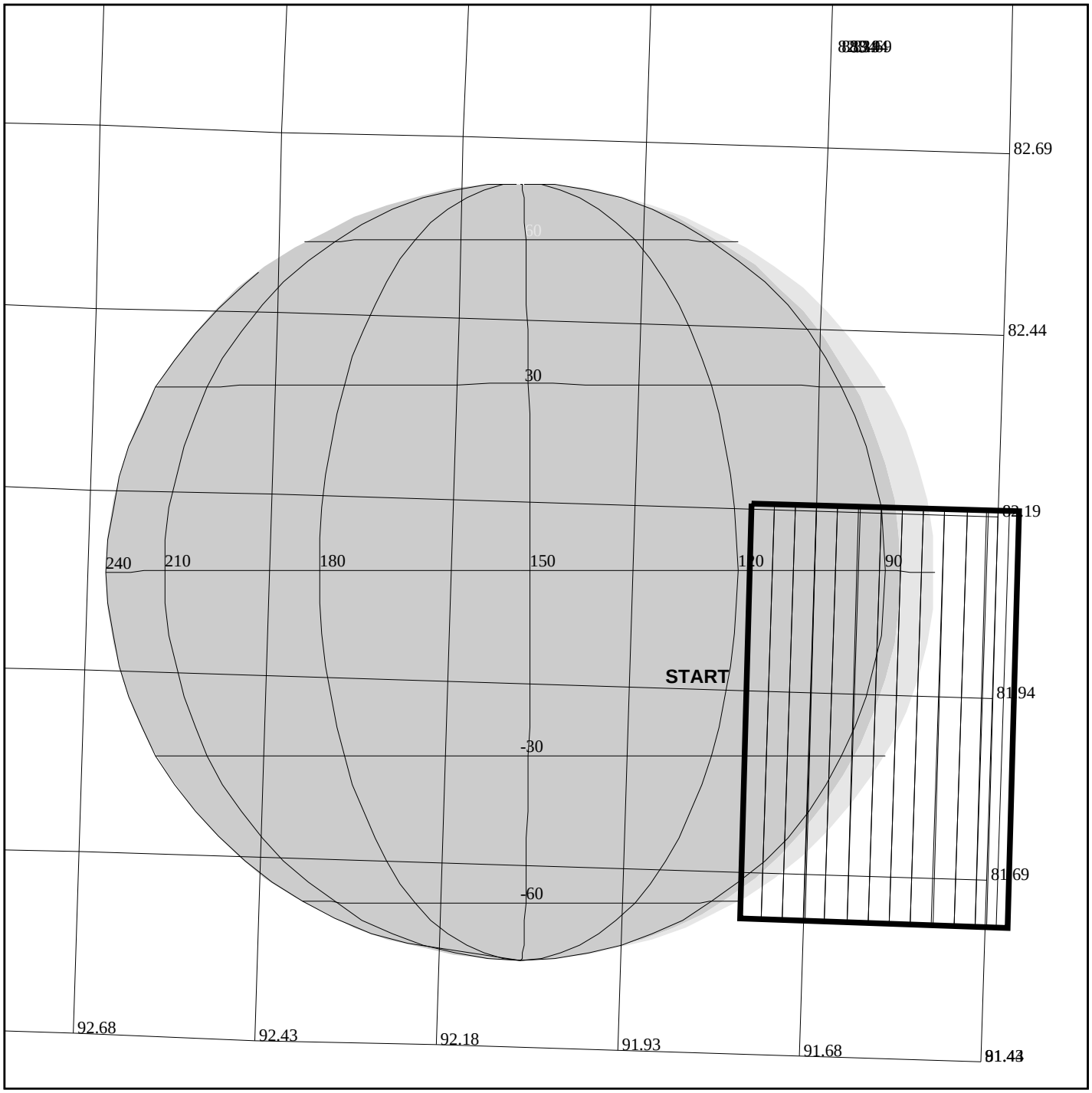
Configure the NIMS instrument for orbit C9 data taking.
Turn the chopper on to Reference.
This orbit includes observations of Jupiter, Io, Callisto, Europa, Ganymede and the main ring.

Design Detail

Use NIMSINIT with the following commands.

```
37IST,1,0,0,OFF,0,0,0;   Chopper 63 Hz
37IST,1,2,0,OFF,0,0,0;   Chopper Ref
37MB,0,0,0,0,0;          No Mirror Blocking
```

Galileo Activity Plan Form 06/09/97 10:29:49 rev 6/95



165LJ:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/6306 TC= 1(-23 84)
A= 728 pD= 0 SR=17.450 RA50=163.73 DEC50= 6.75 cone= 91.76 clock= 81.91
117LJ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6306
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNGRS15601

DESIGN G3.1 jmart: 6/12/1997 11:46: 1

FILE:P.C9JNGRS15601

CENTRAL BODY:JUPITER III

MINI:m.C9JNGRS15601

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPA 97-246/00:00:38.733 +CDS 1311:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNGRS15601 **DESCRIP:Jupiter_Great_Red_Spot_156_Deg**

Jupiter Great Red Spot 156 Degrees	ACTIVITY ID: C9JNGRS15601- START TIME: 97-246/22:01:09.399

Activity ID: Orbit C9 Target J Inst N OAPEL GRS156 SeqNo 01 -

Title	Jupiter Great Red Spot 156 Degrees	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	09/03/97 Week 36
Start	HPA+CDS 00001306:00:0	97-246/22:01:09.399		HPA+000/22:00:30.666	
End	HPA+CDS 00001312:00:0	97-246/22:07:13.399		HPA+000/22:06:34.666	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	C9JNGRS15601-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

156 degrees phase angle observation or the Great Red Spot.
GRS centered at 84 degrees West longitude, 23 degrees South latitude.
Jupiter imaged in 25 colors using NIMS downlink wavelength table JFT25A.

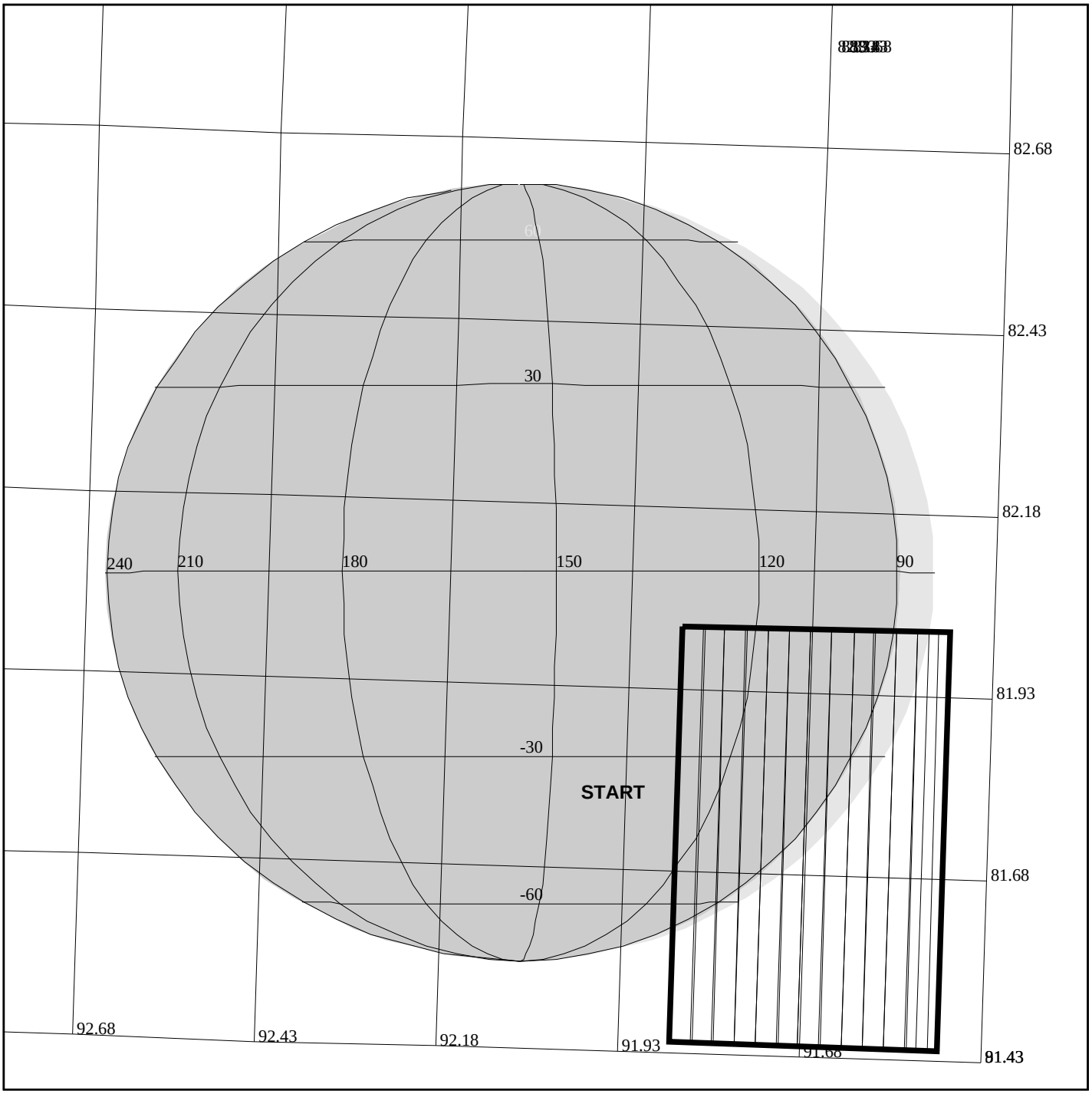
Data Returned

Design Detail

Shortmap, Nyquist sample observation of approximately 0.5 X 1
(5 X 10 mrad) area centered on GRS near 84 degrees West longitude,
23 degrees South planetographic latitude. NIMS IFOV (NIMSEL) = 3575 KM.
Spacecraft distance 7.15 million KM. About 50 seconds of scanning,
accumulating 0.080 MBTG in 25 colors, and using 0.00168 tracks.
Three RIMS reserved for targetting.
Observation occurs during the first SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:49 rev 6/95



165LL:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/7398 TC= 1(-45 84)
A= 728 pD= 0 SR=17.450 RA50=163.75 DEC50= 6.56 cone= 91.85 clock= 81.74
117LL:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7398
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNSOU15601

DESIGN G3.1 jmart: 6/12/1997 11:30:53

FILE:P.C9JNSOU15601

CENTRAL BODY:JUPITER III

MINI:m.C9JNSOU15601

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPA 97-246/00:00:38.733 +CDS 1317:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNSOU15601 **DESCRIP:Jupiter_Southern_Hemisphere_156_**

Jupiter Southern Hemisphere 156 Degrees **ACTIVITY ID: C9JNSOU15601-**
START TIME: 97-246/22:08:04.066

Activity ID: Orbit C9 Target J Inst N OAPEL SOU156 SeqNo 01 -

Title	**Jupiter Southern Hemisphere 156 Degrees**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group** **AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**09/03/97**	**Week 36**
Start	**HPA+CDS 00001312:76:0**	**97-246/22:08:04.066**		**HPA+000/22:07:25.333**	
End	**HPA+CDS 00001318:00:0**	**97-246/22:13:17.399**		**HPA+000/22:12:38.666**	
Duration	**00000005:15:0**	**000/00:05:13.333**		**000/00:05:13.333**	

Top Label	**C9JNSOU15601-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

156 degrees phase angle observation of the Southern Hemisphere centered at 84 degrees West longitude, 45 degrees South latitude. Jupiter imaged in 25 colors using NIMS downlink wavelength table JFT25A.

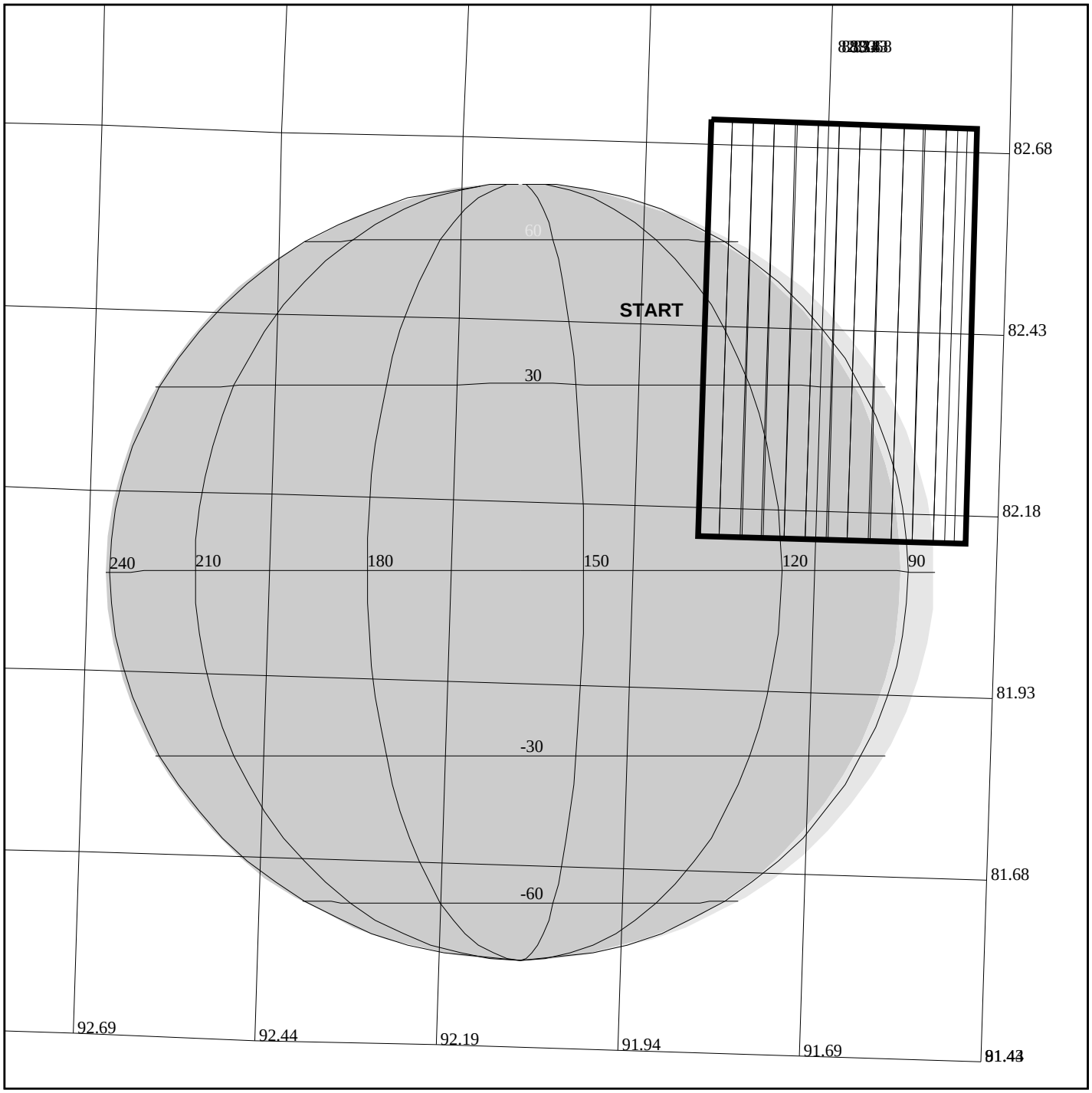
Data Returned

Design Detail

Short map, Nyquist sample observation of approximately 0.5 X 1 (5 X 10 mrad) area centered near 84 degrees West longitude, 45 degrees South latitude. NIMS IFOV (NIMSel) = 3575 KM. About 50 seconds of scanning, accumulating 0.080 MBTG in 25 colors, and using 0.00168 tracks. Three RIMS reserved for targetting. Observation occurs during the first SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:49 rev 6/95**



165LM:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/8490 TC= 1(40 84)
A= 728 pD= 0 SR=17.450 RA50=164.01 DEC50= 7.20 cone= 91.84 clock= 82.43
117LM:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8490
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNNOR15601

DESIGN G3.1 jmart: 6/12/1997 11:29: 5

FILE:P.C9JNNOR15601

CENTRAL BODY:JUPITER III

MINI:m.C9JNNOR15601

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPA 97-246/00:00:38.733 +CDS 1323:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNNOR15601 **DESCRIP:Jupiter_Northern_Hemisphere_156_**

Jupiter Northern Hemisphere 156 Degrees	ACTIVITY ID: C9JNNOR15601- START TIME: 97-246/22:14:08.066

Activity ID: Orbit C9 Target J Inst N OAPEL NOR156 SeqNo 01 -

Title	Jupiter Northern Hemisphere 156 Degrees	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID		Calendar Date	09/03/97 Week 36
Start	HPA+CDS 00001318:76:0	97-246/22:14:08.066		HPA+000/22:13:29.333	
End	HPA+CDS 00001324:00:0	97-246/22:19:21.399		HPA+000/22:18:42.666	
Duration	00000005:15:0	000/00:05:13.333		000/00:05:13.333	

Top Label	C9JNNOR15601-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

156 degrees phase angle observation of the Northern Hemisphere observation centered near 84 degrees West longitude, 40 degrees North latitude. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

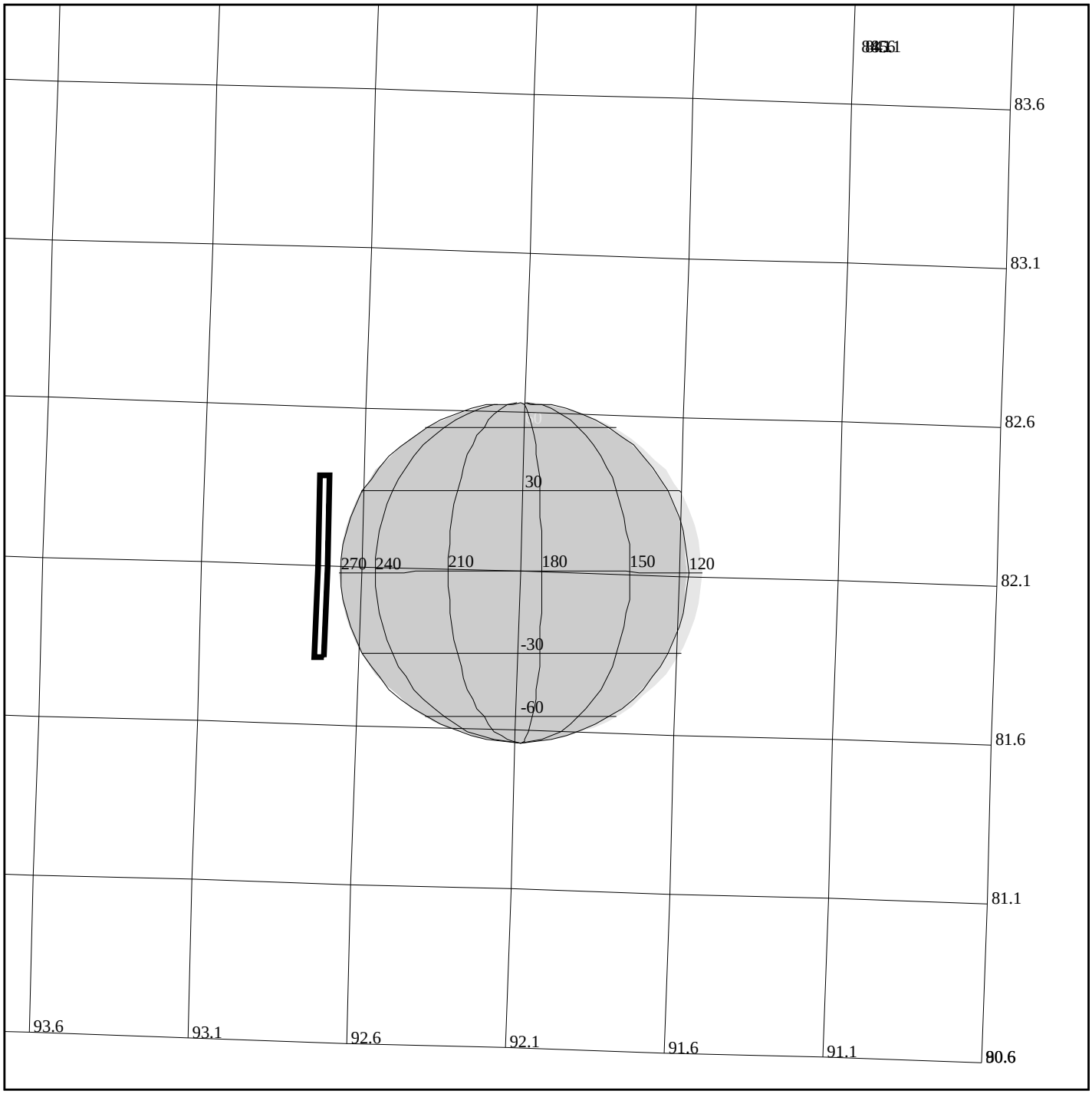
Data Returned

Design Detail

Short map, Nyquist sample observation of approximately 0.5 X 1 (5 X 10 mrad) area centered on GRS near 84 degrees West longitude, 40 degrees North planetographic latitude. NIMS IFOV (NIMSel) = 3575 KM. About 50 seconds of scanning, accumulating 0.080 MBTG in 25 colors, and using 0.00168 tracks. Three RIMS reserved for targetting. Observation occurs during the first SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:49 rev 6/95



165DZ:TT= 0 TMC= 1 C= 11.00 XC= 0.00 BS= 0/6862 TC= 9
A= 728 pD= 0 SR=17.450 RA50=164.74 DEC50= 6.52 cone= 92.76 clock= 82.09

C9RNMRING_01

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9RNMRING_01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPA 97-246/00:00:38.733 +CDS 1369:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.350**

OBSERVATION:C9RNMRING_01 **DESCRIP:Sit and Stare Ring Obs**

Sit and Stare Ring Observation — **ACTIVITY ID: C9RNMRING_01-** / **START TIME: 97-246/22:59:48.066**

Activity ID: Orbit C9 Target R Inst N OAPEL MRING_ SeqNo 01 -

Title	**Sit and Stare Ring Observation**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/J. Hui**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System CDS Load ID Calendar Date 09/03/97 Week 36

Start	**HPA+CDS 00001364:00:0**	**97-246/22:59:48.066**	**HPA+000/22:59:09.333**
End	**HPA+CDS 00001373:00:0**	**97-246/23:08:54.066**	**HPA+000/23:08:15.333**
Duration	**00000009:00:0**	**000/00:09:06.000**	**000/00:09:06.000**

Top Label C9RNMRING_01-
Bottom Label

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

Observation Objective

To study Jupiter’s Ring system, i.e., particle size and composition.

This NIMS ring observation is different from previous NIMS ring observations.
This observation ’stares’ at the same spot for 4 Rims.
Observations is earlier orbits scanned along the ring in map mode.
The objective is to add the spectra to increase the signal-to-noise ratio.

Data Returned

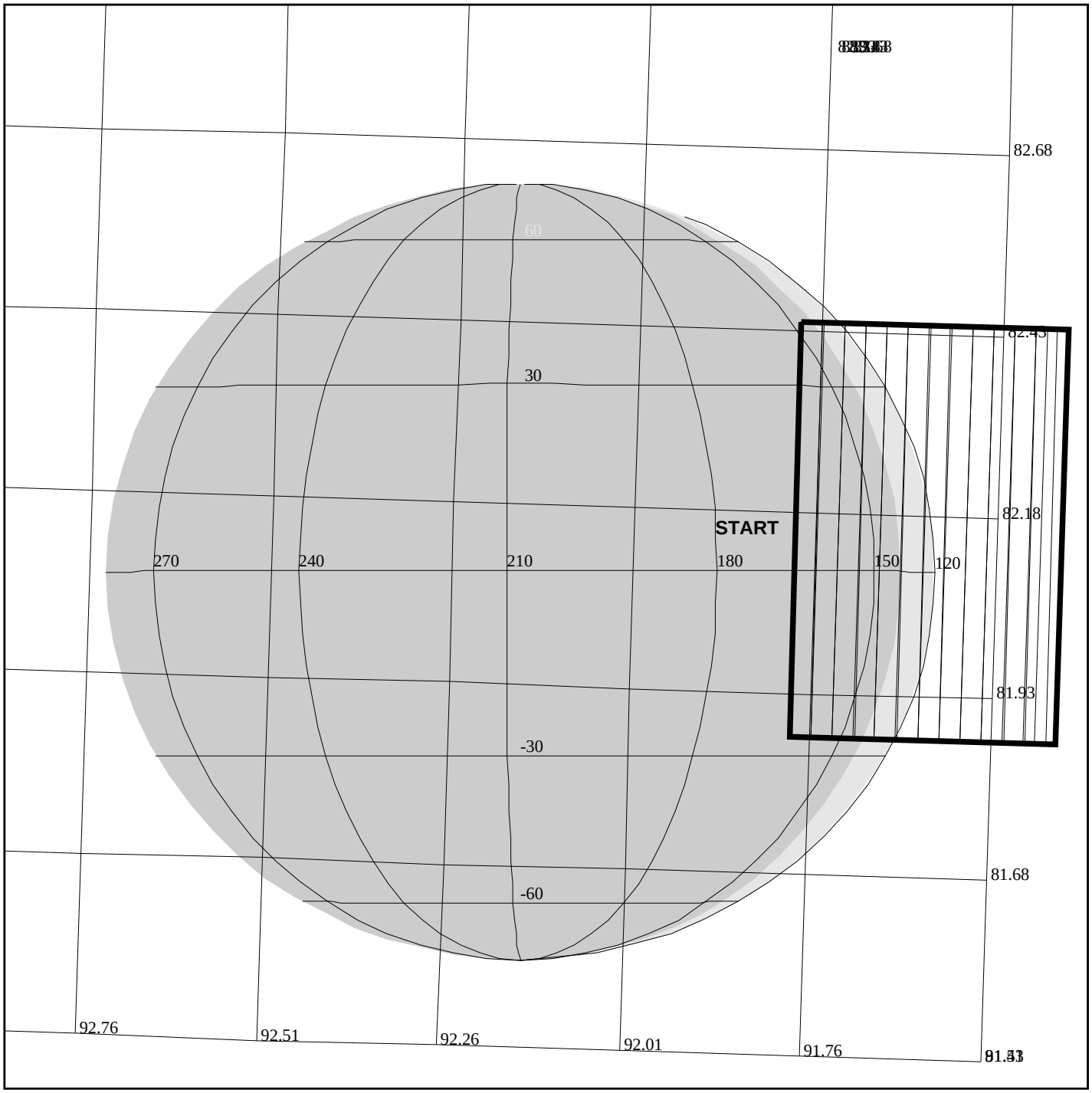
Design Detail

Target 4 RIMS
Target to ring plane and stare for four RIMS.

- **Recorded at LPU for 4 RIMS.**
- **FM**
- **Gain State = 4**
- **Chopper Reference**
- **Grating Offset = 0**

Full Map (FM), Gain 4, Grating Start 0, LPU, C9RFM126B, C9RFM126B

Galileo Activity Plan Form 06/09/97 10:29:49 rev 6/95



165LO:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/3232 TC= 1(6 129)
A= 728 pD= 0 SR=17.450 RA50=163.85 DEC50= 6.97 cone= 91.78 clock= 82.16
117LO:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3232
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNFEA15601

DESIGN G3.1 jmart: 6/12/1997 11:32:48

FILE:P.C9JNFEA15601

CENTRAL BODY:JUPITER III

MINI:m.C9JNFEA15601

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPA 97-246/00:00:38.733 +CDS 1404:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNFEA15601 **DESCRIP:Jupiter_Feature_156_Deg_Phase**

Jupiter Feature 156 Degrees Phase	**ACTIVITY ID: C9JNFEA15601-** **START TIME: 97-246/23:35:11.399**

Activity ID: Orbit C9 Target J Inst N OAPEL FEA156 SeqNo 01 -

Title	**Jupiter Feature 156 Degrees Phase**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**09/03/97**	**Week 36**
Start	**HPA+CDS 00001399:00:0**	**97-246/23:35:11.399**		**HPA+000/23:34:32.666**	
End	**HPA+CDS 00001405:00:0**	**97-246/23:41:15.399**		**HPA+000/23:40:36.666**	
Duration	**00000006:00:0**	**000/00:06:04.000**		**000/00:06:04.000**	

Top Label	**C9JNFEA15601-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

**156 degrees phase angle observation of the Hotspot/plume feature.
Feature centered at 129 degrees West longitude, 6 degrees North latitude.
Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.**

Data Returned

Design Detail

**Shortmap, Nyquist sample 156 degree phase angle observation of
0.5 X 1 (5 X 10 mrad) area centered on the bright limb near
129 degrees West longitude, 6 degrees North planetographic latitude.
Spacecraft distance 7.15 million KM. NIMS IFOV (NIMSel) = 3575 km.
About 50 seconds of scanning accumulating 0.080 MBTG in 25 colors,
and using 0.00168 tracks. 4 RIMS reserved for targetting.
Observation occurs during the second SSI off-earthline turn.**

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

NIMS Chopper Off	ACTIVITY ID: C9NNCHOPOF04- START TIME: 97-246/23:41:56.066

Activity ID: Orbit C9 Target N Inst N OAPEL CHOPOF SeqNo 04 -

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

Time System	CDS	Load ID	Calendar Date 09/03/97 Week 36
Start	HPA+CDS 00001405:61:0	97-246/23:41:56.066	HPA+000/23:41:17.333
End	HPA+CDS 00001416:00:0	97-246/23:52:22.733	HPA+000/23:51:44.000
Duration	00000010:30:0	000/00:10:26.667	000/00:10:26.667

Top Label	C9NNCHOPOF04-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To preserve the NIMS chopper life.

Design Detail

Use a NIMSTAB PA to reset wavelength table with parameters
04,C4,02,00,00 and to issue a 37IOP,0,0 to put NIMS in safe.
Then:
Use two NIMS 37IST commands to turn chopper off:
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)
37IST,0,1,1,0,OFF,0,0,0 (Change Chopper 63Hz to OFF)
Also use a NIMS 37MB command to reset the mirror positions:
37MB,0,0,0,0,0,0 (00000,00000)

Galileo Activity Plan Form	06/09/97 10:29:49	rev 6/95

NIMS Chopper On	**ACTIVITY ID: C9NNCHOPON05-** **START TIME: 97-253/11:45:08.999**

Activity ID: Orbit C9 Target N Inst N OAPEL CHOPON SeqNo 05 -

Title	**NIMS Chopper On**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**09/10/97 Week 37**
Start	**HPB+CDS 00000697:00:0**	**97-253/11:45:08.999**		**HPB+000/11:44:44.666**	
End	**HPB+CDS 00000707:00:0**	**97-253/11:55:15.666**		**HPB+000/11:54:51.333**	
Duration	**00000010:00:0**	**000/00:10:06.667**		**000/00:10:06.667**	

Top Label	**C9NNCHOPON05-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**50**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Configure the NIMS instrument for orbit C9 data taking.
Turn the chopper on to Reference.
This orbit includes observations of Jupiter, Io, Callisto, Europa, Ganymede and the main ring.

Design Detail

Use NIMSINIT with the following commands.

37IST,1,0,0,OFF,0,0,0;	**Chopper 63 Hz**
37IST,1,2,0,OFF,0,0,0;	**Chopper Ref**
37MB,0,0,0,0,0’	**No Mirror Blocking**

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NIMS OPCAL	**ACTIVITY ID: C9NNOPCAL_01-** **START TIME: 97-253/12:04:21.666**

Activity ID: Orbit C9 Target N Inst N OAPEL OPCAL_ SeqNo 01 -

Title	**NIMS OPCAL**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/J. HUI**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**09/10/97 Week 37**
Start	**HPB+CDS 00000716:00:0**	**97-253/12:04:21.666**		**HPB+000/12:03:57.333**	
End	**HPB+CDS 00000739:00:0**	**97-253/12:27:36.999**		**HPB+000/12:27:12.666**	
Duration	**00000023:00:0**	**000/00:23:15.333**		**000/00:23:15.333**	

Top Label	**C9NNOPCAL_01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**200**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

Perform NIMS Optical Calibration to calibrate the NIMS grating.

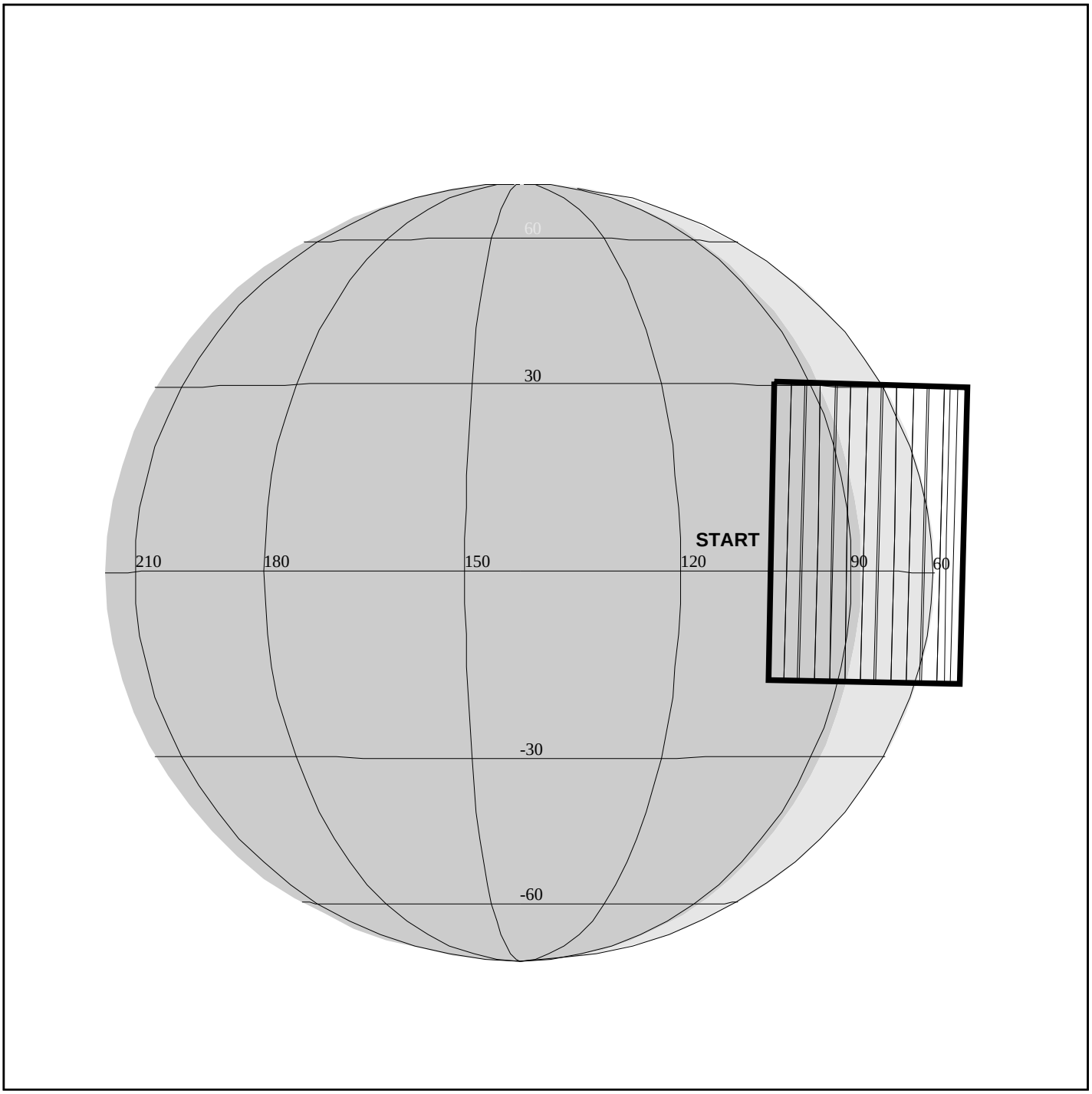
Data Returned

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, OPCAL48

Galileo Activity Plan Form 06/09/97 10:29:49 rev 6/95



165LP:TT= 0 TMC= 1 C= 4.00 XC= 0.00 BS= 0/2201 TC= 1(6 78)
A= 728 pD= 0 SR=17.450 RA50=174.32 DEC50= 2.10 cone= 90.81 clock= 84.50
117LP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2201
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNFEA14501

TARGET G3.1 jmart: 6/11/1997 14:29:54

FILE:P.C9JNFEA14501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:HPB 97-253/00:00:24.333 +CDS 770:00:0

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

OBSERVATION:C9JNFEA14501

DESCRIP:Jupiter_Feature_145_Deg_Phase01

Jupiter Feature 145 Degrees Phase prt 1 ACTIVITY ID: C9JNFEA14501-
START TIME: 97-253/12:53:54.333

Activity ID: Orbit C9 Target J Inst N OAPEL FEA145 SeqNo 01 -

Title	Jupiter Feature 145 Degrees Phase prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS Working Group AWG

Time System	CDS	Load ID		Calendar Date	09/10/97 Week 37
Start	HPB+CDS 00000765:00:0	97-253/12:53:54.333		HPB+000/12:53:30.000	
End	HPB+CDS 00000771:00:0	97-253/12:59:58.333		HPB+000/12:59:34.000	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	C9JNFEA14501-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

145 degrees phase angle observation of the Hotspot/plume feature.
Feature centered at 78 degrees West longitude, 6 degrees North latitude.
Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

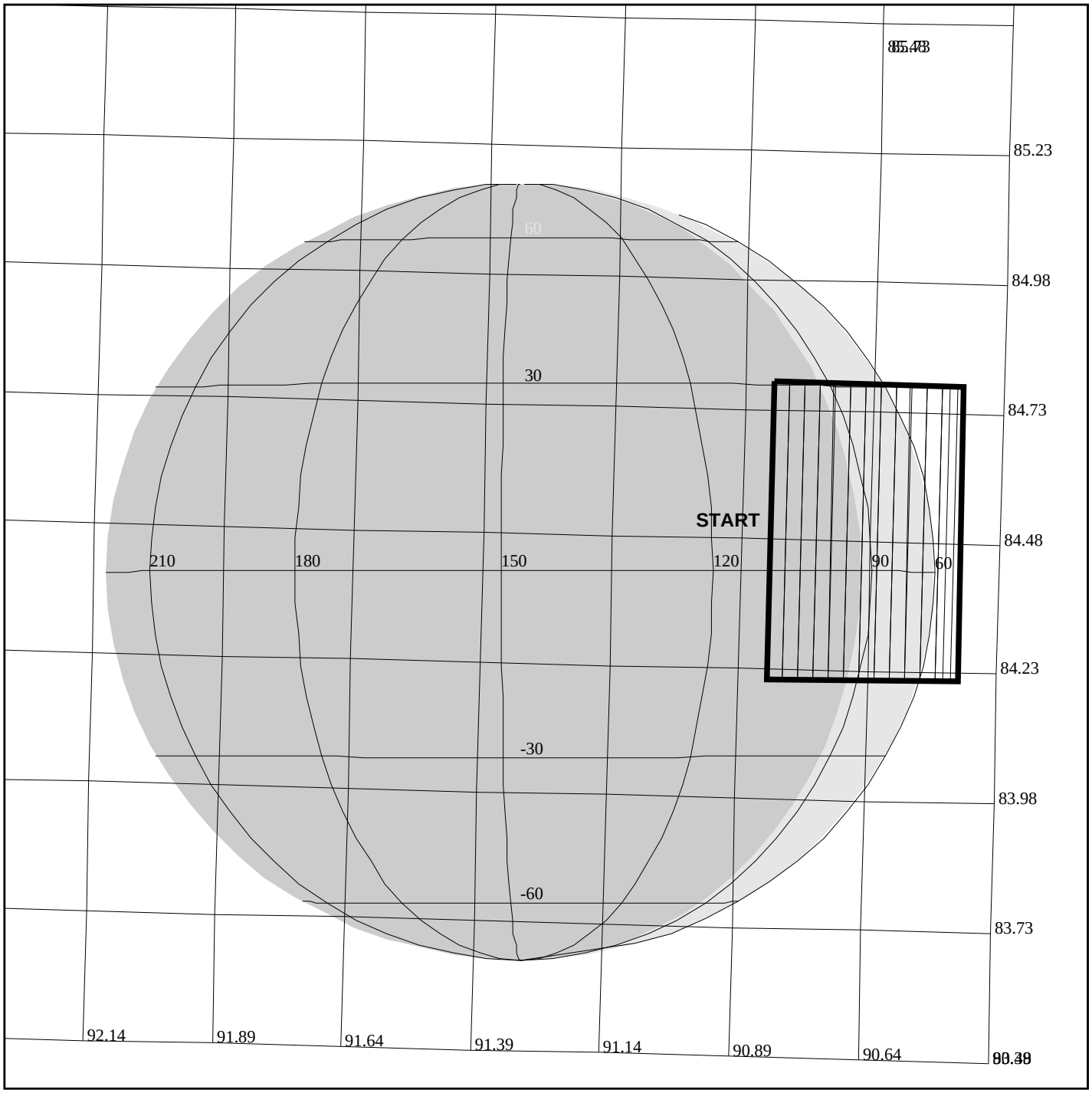
Data Returned

Design Detail

First of three shortmap, Nyquist sample 145 degree phase angle observations of 0.5 X 1 (5 X 10 mrad) area centered on Hotspot/plume feature near 78 degrees West longitude, 6 degrees North planetographic latitude. Spacecraft distance 5.02 million KM, NIMS IFOV (NIMSel) = 2510 KM
About 50 seconds of scanning, accumulating 0.080 MBTG in 25 colors, and using 0.00168 tracks. Four RIMS reserved for targetting.
Observation occurs during the second SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:49 rev 6/95



165LS:TT= 0 TMC= 1 C= 4.50 XC= 0.00 BS= 0/3657 TC= 1(6 78)
A= 728 pD= 0 SR=17.450 RA50=174.33 DEC50= 2.09 cone= 90.82 clock= 84.50
117LS:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3657
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNFEA14502

DESIGN G3.1 jmart: 6/12/1997 11:34:45

FILE:P.C9JNFEA14502

CENTRAL BODY:JUPITER III

MINI:m.C9JNFEA14502

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPB 97-253/00:00:24.333 +CDS 778:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNFEA14502 **DESCRIP:Jupiter_Feature_145_Deg_Phase02**

Jupiter Feature 145 Degrees Phase prt 2 ACTIVITY ID: C9JNFEA14502-
START TIME: 97-253/13:01:59.666

Activity ID: Orbit C9 Target J Inst N OAPEL FEA145 SeqNo 02 -

Title	Jupiter Feature 145 Degrees Phase prt 2 Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	Calendar Date 09/10/97 Week 37
Start	HPB+CDS 00000773:00:0	97-253/13:01:59.666	HPB+000/13:01:35.333
End	HPB+CDS 00000779:00:0	97-253/13:08:03.666	HPB+000/13:07:39.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label C9JNFEA14502-
Bottom Label

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

Observation Objective

145 degrees phase angle observation of the Hotspot/plume feature.
Feature centered at 78 degrees West longitude, 6 degrees North latitude.
Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

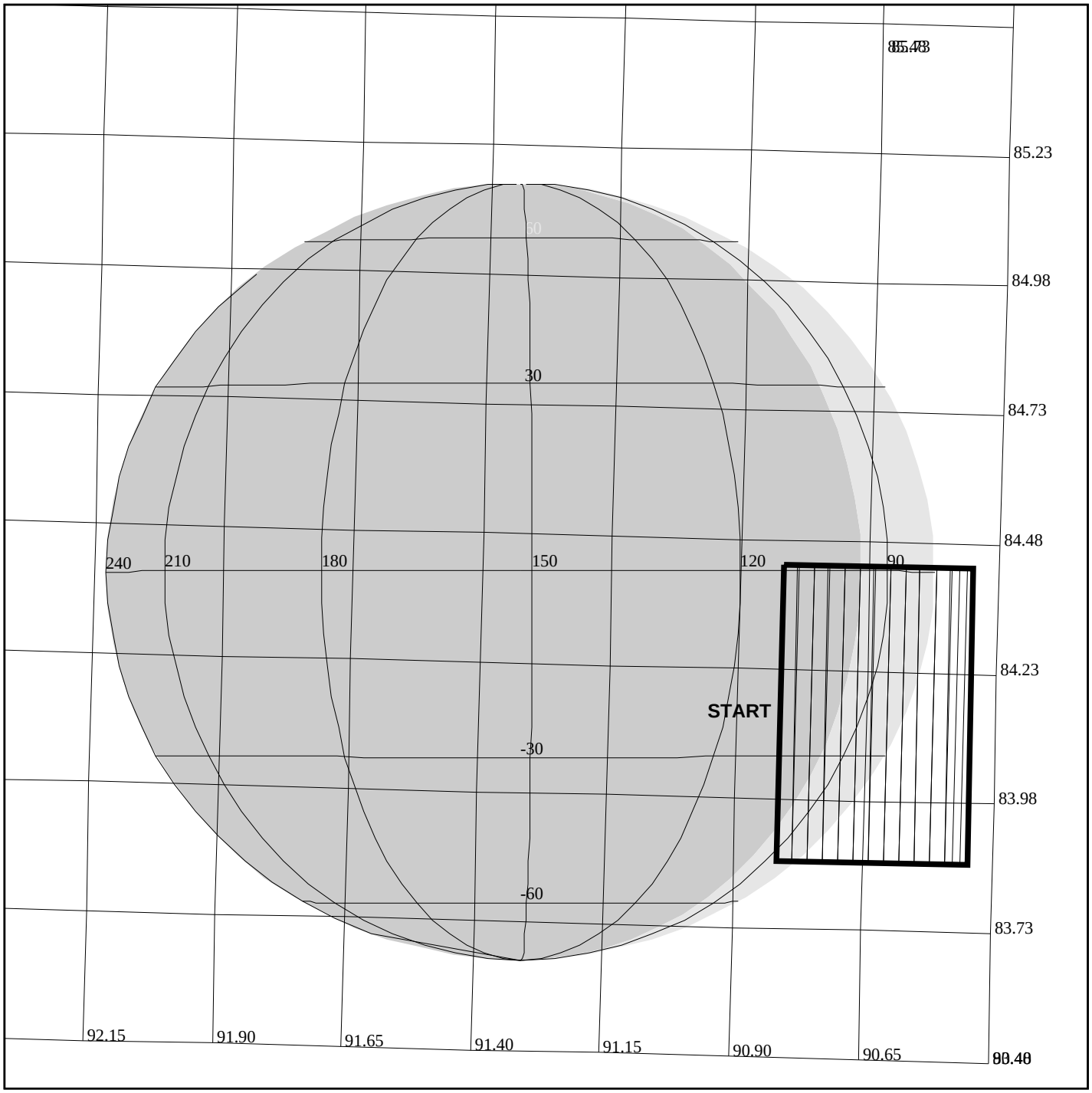
Data Returned

Design Detail

Second of three shortmap, Nyquist sample, 145 degree phase angle observation of 0.5 X 1 (5 X 10 mrad) area centered on Hotspot/plume feature near 78 degrees West longitude, 6 degrees North planetographic latitude. Spacecraft distance 5.02 million KM, NIMS IFOV (NIMSel) = 2510 KM
About 50 seconds of scanning, accumulating 0.160 MBTG in 25 colors, and using 0.00168 tracks. Four RIMS reserved for targetting.
Observation occurs during the second SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:50 rev 6/95



165FB:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/4931 TC= 1(-23 86)
A= 728 pD= 0 SR=17.450 RA50=174.18 DEC50= 1.78 cone= 90.81 clock= 84.14
117FB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4931
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNGRS14501

DESIGN G3.1 jmart: 6/12/1997 11:31:54

FILE:P.C9JNGRS14501

CENTRAL BODY:JUPITER III

MINI:m.C9JNGRS14501

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPB 97-253/00:00:24.333 +CDS 785:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNGRS14501 **DESCRIP:Jupiter_GRS_145_Degree_Phase01**

Jupiter GRS 145 Degree Phase prt 1	ACTIVITY ID: C9JNGRS14501- START TIME: 97-253/13:09:04.333

Activity ID: Orbit C9 Target J Inst N OAPEL GRS145 SeqNo 01 -

Title	Jupiter GRS 145 Degree Phase prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	09/10/97 Week 37
Start	HPB+CDS 00000780:00:0	97-253/13:09:04.333		HPB+000/13:08:40.000	
End	HPB+CDS 00000786:00:0	97-253/13:15:08.333		HPB+000/13:14:44.000	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	C9JNGRS14503-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of two 145 degree phase angle observation of the Great Red Spot.
GRS centered at 86 degrees West longitude, 23 degrees South latitude.
Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

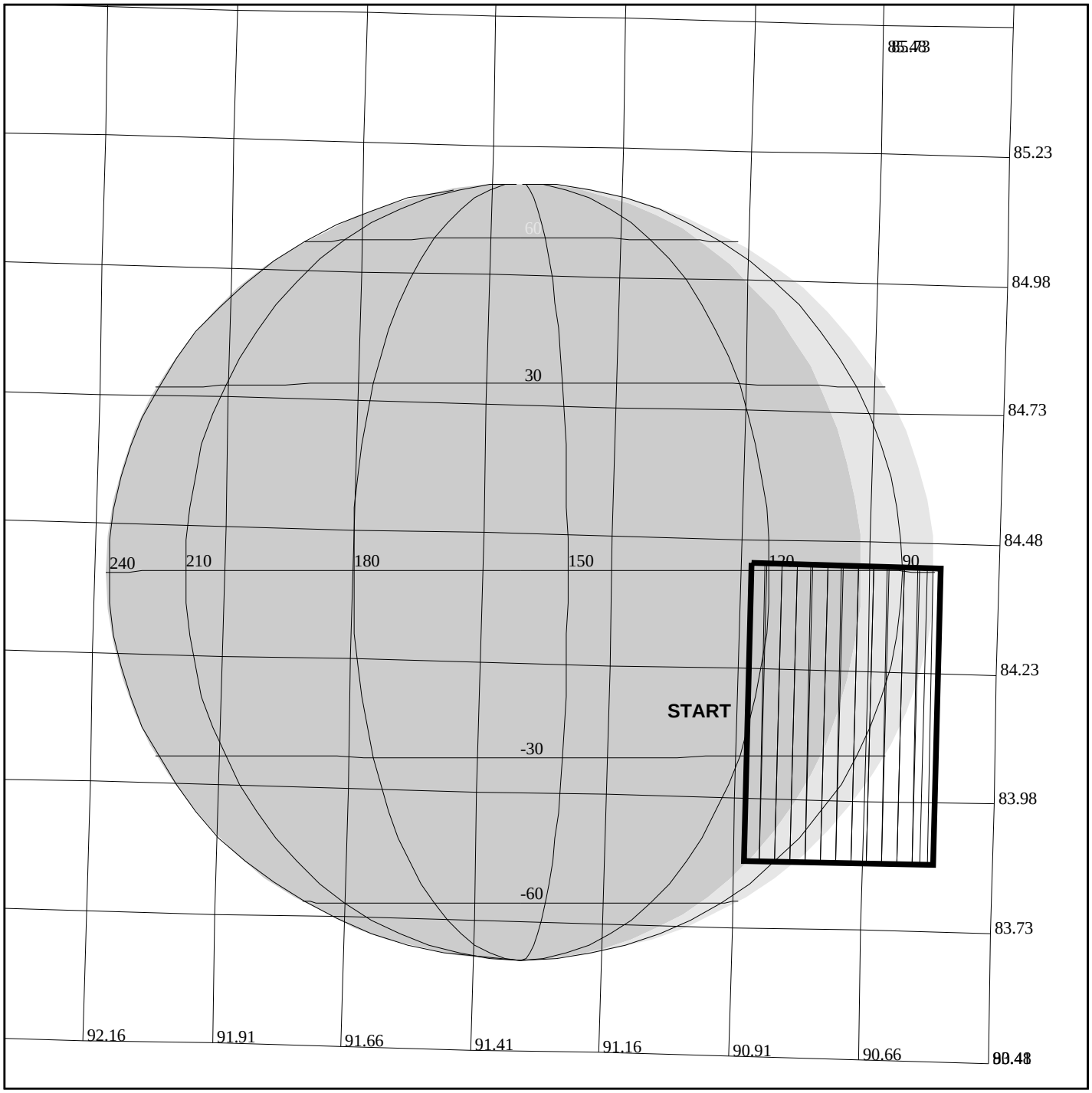
Data Returned

Design Detail

Shortmap, Nyquist sample observation of approximately 0.5 X 1
(5 X 10 mrad) area centered on GRS on the bright limb near
86 degrees West longitude, 23 degrees South planetographic latitude.
Spacecraft distance 5.02 million KM, NIMS IFOV (NIMSel) = 2510 KM.
About 50 seconds of scanning, accumulating 0.080 MBTG in 25 colors,
and using 0.00168 tracks. Four RIMS reserved for targetting.
Observation occurs during the second SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:50 rev 6/95



165LU:TT= 0 TMC= 1 C= 4.50 XC= 0.00 BS= 0/6387 TC= 1(-23 86)
A= 728 pD= 0 SR=17.450 RA50=174.25 DEC50= 1.75 cone= 90.89 clock= 84.14
117LU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6387
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNGRS14502

DESIGN G3.1 jmart: 6/12/1997 11:26:15

FILE:P.C9JNGRS14502

CENTRAL BODY:JUPITER III

MINI:m.C9JNGRS14502

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPB 97-253/00:00:24.333 +CDS 793:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNGRS14502 **DESCRIP:Jupiter_GRS_145_Degree_Phase02**

Jupiter GRS 145 Degrees Phase prt 2	ACTIVITY ID: C9JNGRS14502- START TIME: 97-253/13:17:09.666

Activity ID: Orbit C9 Target J Inst N OAPEL GRS145 SeqNo 02 -

Title	Jupiter GRS 145 Degrees Phase prt 2	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID	Calendar Date	09/10/97	Week 37
Start	HPB+CDS 00000788:00:0	97-253/13:17:09.666		HPB+000/13:16:45.333	
End	HPB+CDS 00000794:00:0	97-253/13:23:13.666		HPB+000/13:22:49.333	
Duration	00000006:00:0	000/00:06:04.000		000/00:06:04.000	

Top Label	C9JNGRS14502-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of two 145 degree phase angle observation of the Great Red Spot.
GRS centered at 86 degrees West longitude, 23 degrees South latitude.
Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

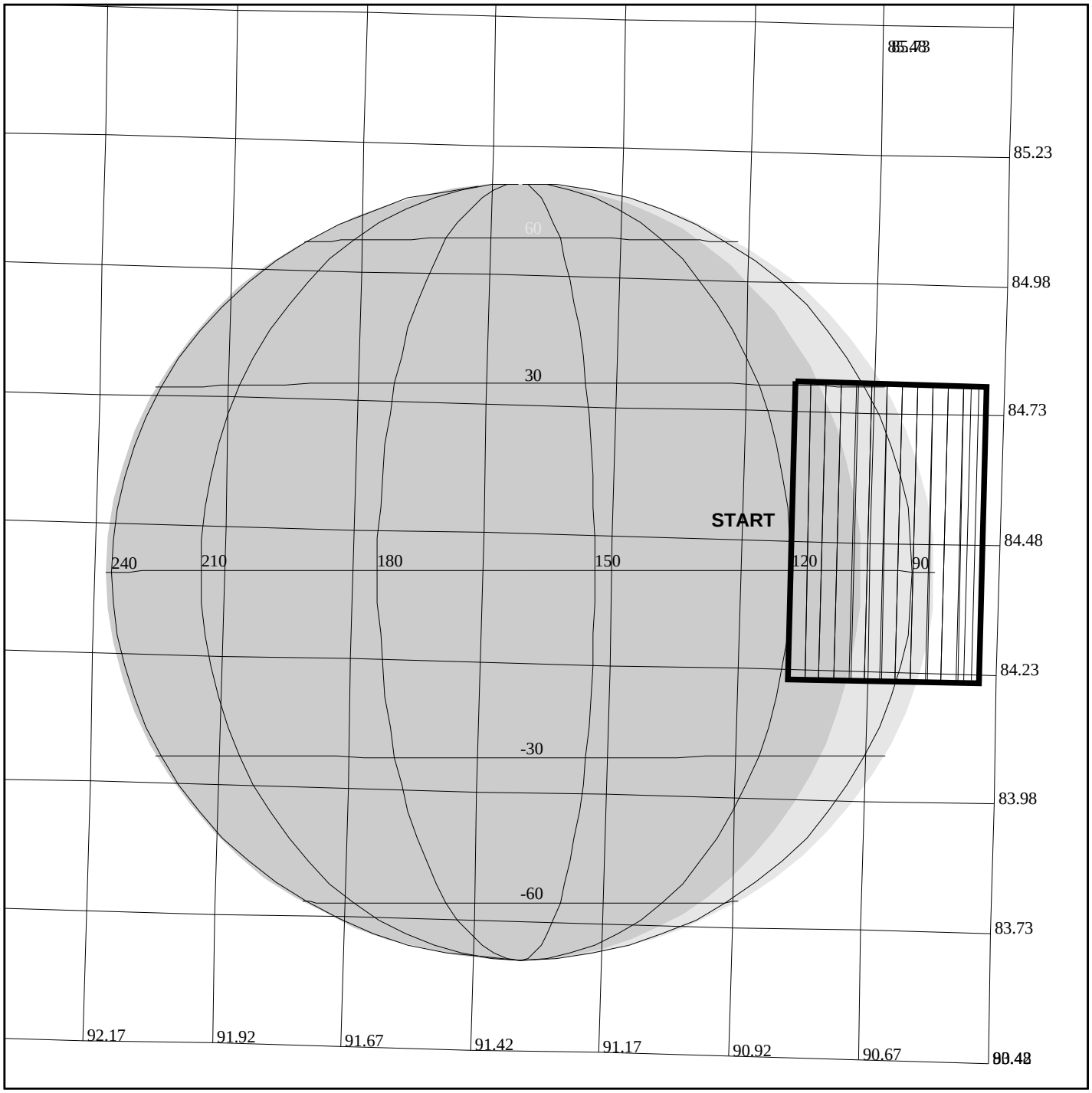
Data Returned

Design Detail

Shortmap, Nyquist sample observation of approximately 0.5 X 1
(5 X 10 mrad) area centered on GRS on the bright limb near
86 degrees West longitude, 23 degrees South planetographic latitude.
Spacecraft distance 5.02 million KM, NIMS IFOV (NIMSel) = 2510 KM.
About 50 seconds of scanning, accumulating 0.080 MBTG in 25 colors,
and using 0.00168 tracks. Four RIMS reserved for targetting.
Observation occurs during the second SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form	06/09/97 10:29:50	rev 6/95



165MG:TT= 0 TMC= 1 C= 4.50 XC= 0.00 BS= 0/7479 TC= 1(6 78)
A= 728 pD= 0 SR=17.450 RA50=174.33 DEC50= 2.09 cone= 90.82 clock= 84.50
117MG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7479
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNFEA14503

DESIGN G3.1 jmart: 6/12/1997 11:33:41

FILE:P.C9JNFEA14503

CENTRAL BODY:JUPITER III

MINI:m.C9JNFEA14503

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPB 97-253/00:00:24.333 +CDS 799:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNFEA14503 **DESCRIP:Jupiter_Feature_145_Deg_Phase03**

Jupiter Feature 145 Degrees Phase prt 3 **ACTIVITY ID: C9JNFEA14503-**
START TIME: 97-253/13:24:04.333

Activity ID: Orbit C9 Target J Inst N OAPEL FEA145 SeqNo 03 -

Title	**Jupiter Feature 145 Degrees Phase prt 3**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team**	**NIMS Working Group** **AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**09/10/97**	**Week 37**
Start	**HPB+CDS 00000794:76:0**	**97-253/13:24:04.333**		**HPB+000/13:23:40.000**	
End	**HPB+CDS 00000800:00:0**	**97-253/13:29:17.666**		**HPB+000/13:28:53.333**	
Duration	**00000005:15:0**	**000/00:05:13.333**		**000/00:05:13.333**	

Top Label	**C9JNFEA14503-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

**145 degrees phase angle observation of the Hotspot/plume feature.
Feature centered at 78 degrees West longitude, 6 degrees North latitude.
Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.**

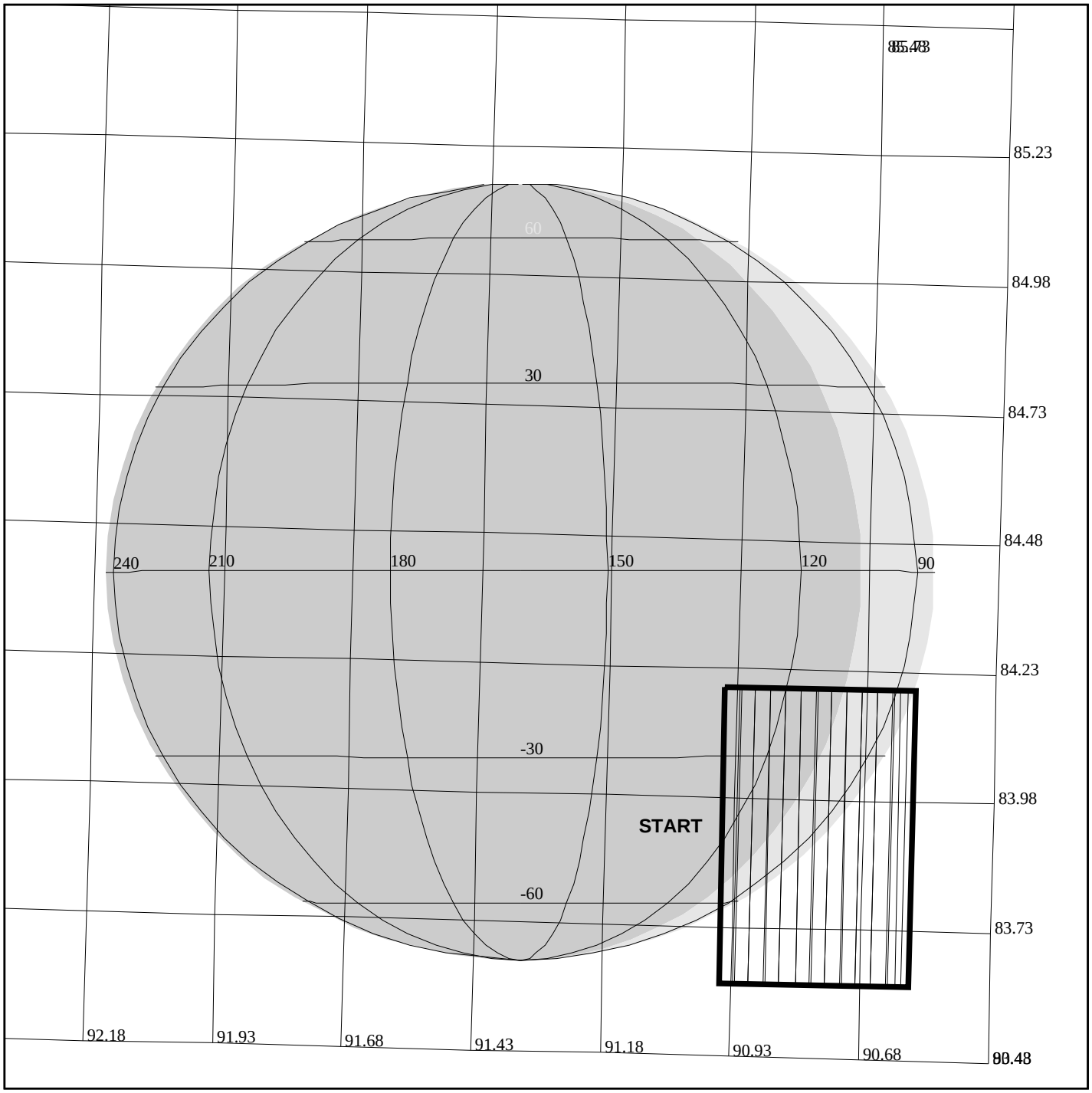
Data Returned

Design Detail

**Third of three shortmap, Nyquist sample, 145 degree phase angle observation of 0.5 X 1 (5 X 10 mrad) area centered on Hotspot/plume feature near 78 degrees West longitude, 6 degrees North planetographic latitude. Spacecraft distance 5.02 million KM, NIMS IFOV (NIMSel) = 2510 KM
About 50 seconds of scanning, accumulating 0.160 MBTG in 25 colors, and using 0.00168 tracks. Three RIMS reserved for targetting.
Observation occurs during the second SSI off-earthline turn.**

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:50 rev 6/95**



165MH:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/8025 TC= 1(-45 86)
A= 182 pD= 0 SR=17.450 RA50=174.21 DEC50= 1.50 cone= 90.95 clock= 83.91
117MH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8025
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNSOU14501

DESIGN G3.1 jmart: 6/12/1997 11:30:12

FILE:P.C9JNSOU14501

CENTRAL BODY:JUPITER III

MINI:m.C9JNSOU14501

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:HPB 97-253/00:00:24.333 +CDS 802:00:0

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

OBSERVATION:C9JNSOU14501

DESCRIP:Jupiter_Southern_Hemisphere_145_

Jupiter South Hemisphere 145 Deg Phase	ACTIVITY ID: C9JNSOU14501- START TIME: 97-253/13:29:17.666

Activity ID: Orbit C9 Target J Inst N OAPEL SOU145 SeqNo 01 -

Title	Jupiter South Hemisphere 145 Deg Phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	09/10/97 Week 37
Start	HPB+CDS 00000800:00:0	97-253/13:29:17.666		HPB+000/13:28:53.333	
End	HPB+CDS 00000804:00:0	97-253/13:33:20.333		HPB+000/13:32:56.000	
Duration	00000004:00:0	000/00:04:02.667		000/00:04:02.667	

Top Label	C9JNSOU14501-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

145 degrees phase angle observation of the Southern Hemisphere. Observation centered at 86 degrees West longitude, 45 degrees South latitude. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

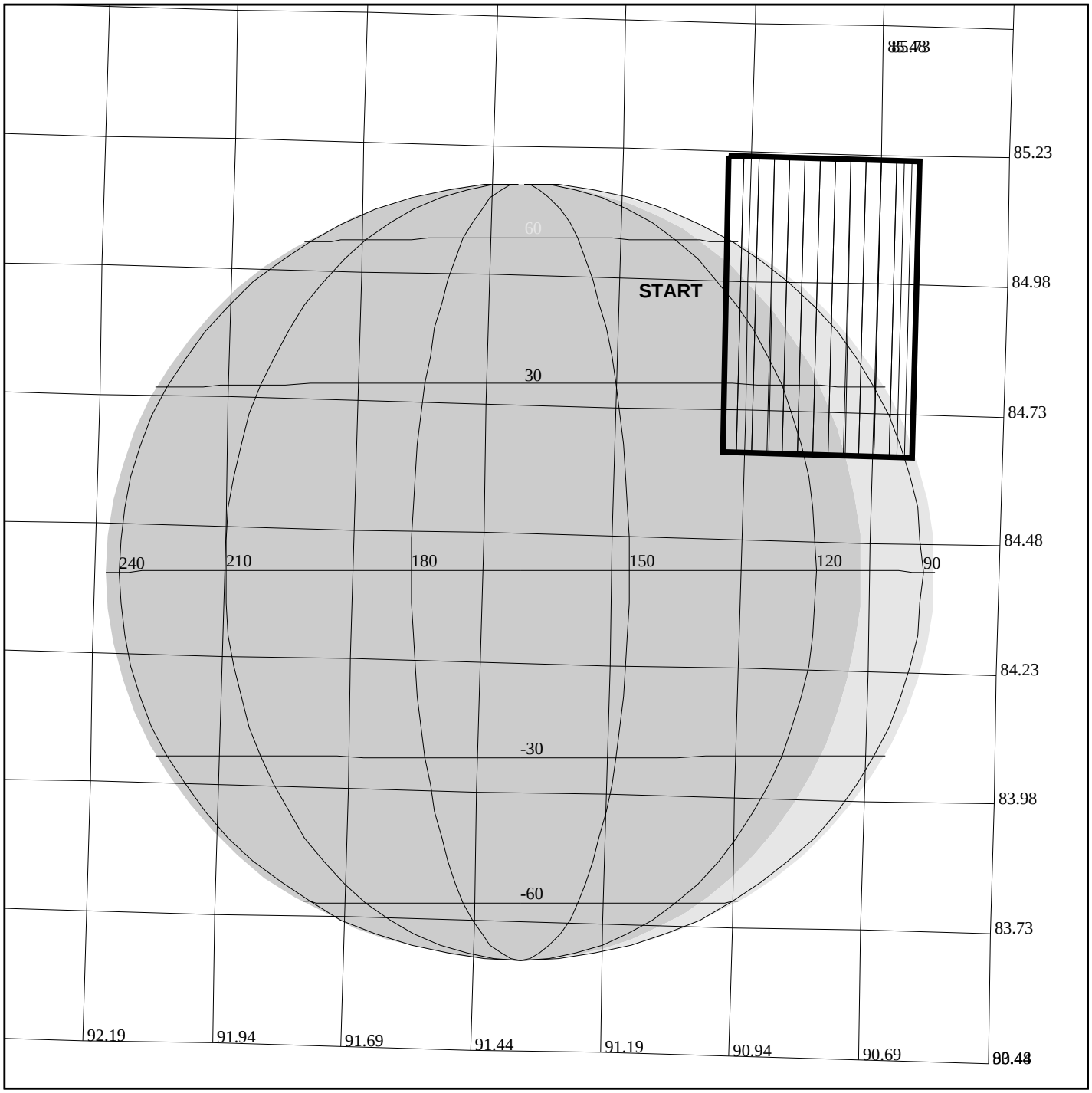
Data Returned

Design Detail

Shortmap, Nyquist sample, observation of approximately 0.5 X 1 (5 X 10 mrad) area centered on bright limb of the Southern Hemisphere near 86 degrees West longitude, 45 degrees South planetographic latitude. Spacecraft distance 5.02 million KM, NIMS IFOV (NIMSel) = 2510 KM. About 50 seconds of scanning, accumulating 0.080 MBTG in 25 colors, and using 0.00336 tracks. Three RIMS reserved for targetting. Observation occurs during the second SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form 06/09/97 10:29:50 rev 6/95



165LZ:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/8935 TC= 1(45 86)
A= 520 pD= 0 SR=17.450 RA50=174.65 DEC50= 2.43 cone= 90.97 clock= 84.93
117LZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8935
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNNOR14501

DESIGN G3.1 jmart: 6/12/1997 11:28:16

FILE:P.C9JNNOR14501

CENTRAL BODY:JUPITER III

MINI:m.C9JNNOR14501

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPB 97-253/00:00:24.333 +CDS 807:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNNOR14501 **DESCRIP:Jupiter_North_Hemisphere_145_Deg**

Jupiter North Hemisphere 145 Deg Phase	ACTIVITY ID: C9JNNOR14501- START TIME: 97-253/13:33:20.333

Activity ID: Orbit C9 Target J Inst N OAPEL NOR145 SeqNo 01 -			
Title	Jupiter North Hemisphere 145 Deg Phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	09/10/97 Week 37
Start	HPB+CDS 00000804:00:0	97-253/13:33:20.333		HPB+000/13:32:56.000	
End	HPB+CDS 00000809:00:0	97-253/13:38:23.666		HPB+000/13:37:59.333	
Duration	00000005:00:0	000/00:05:03.333		000/00:05:03.333	

Top Label	C9JNNOR14501-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

145 degrees phase angle observation of the Northern Hemisphere. Observation centered near 86 degrees West longitude, 40 degrees North latitude. Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

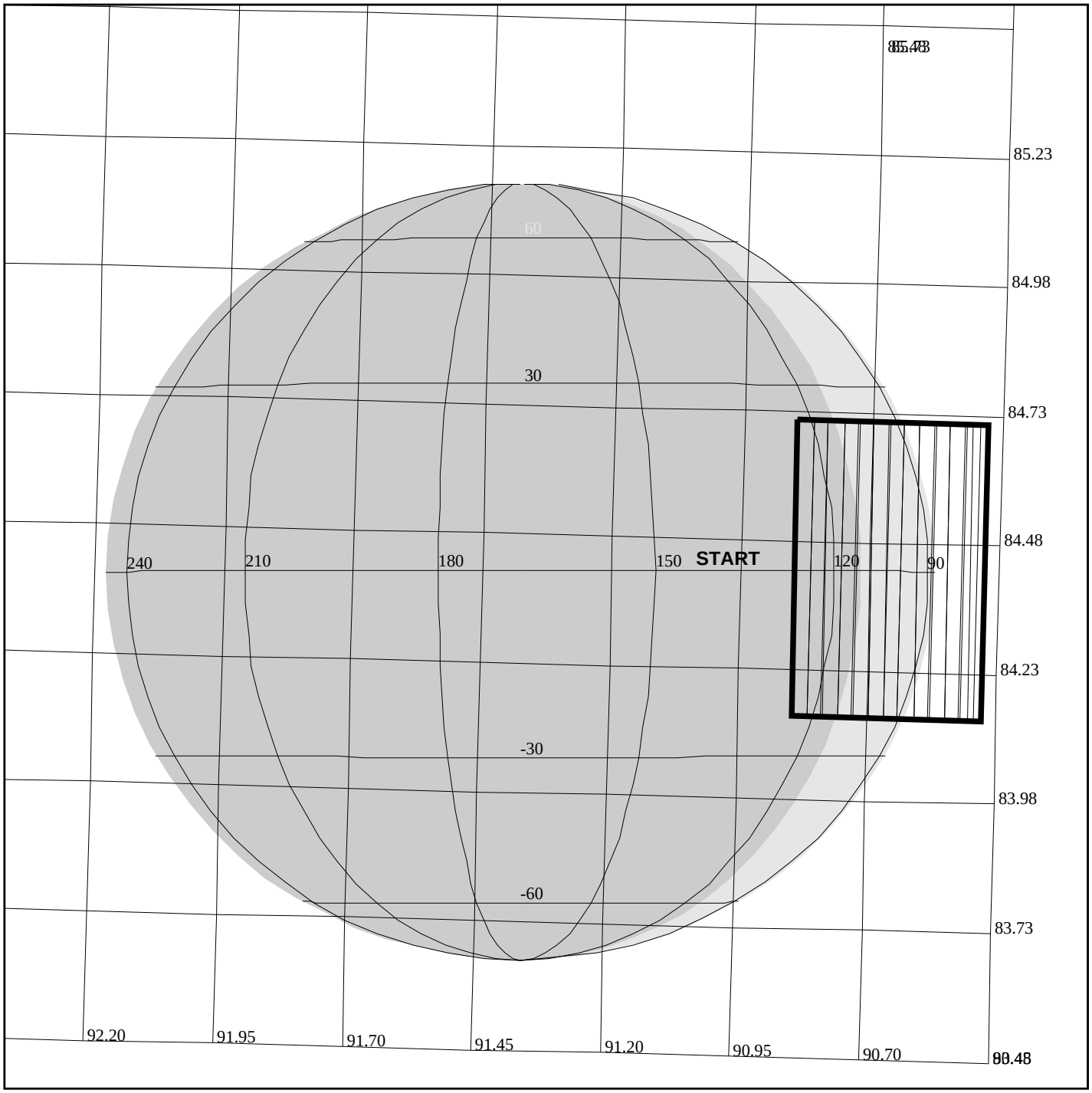
Data Returned

Design Detail

Shortmap, Nyquist sample, observation of approximately 0.5 X 1 (5 X 10 mrad) area centered on the bright limb of the Northern Hemisphere near 86 degrees West longitude, 45 degrees South planetographic latitude. Spacecraft distance 5.02 million KM, NIMS IFOV (NIMSel) = 2510 KM. About 50 seconds of scanning, accumulating 0.080 MBTG in 25 colors, and using 0.00168 tracks. Three RIMS reserved for targetting. Observation occurs during the second SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form	06/09/97 10:29:50	rev 6/95



165MA:TT= 0 TMC= 1 C= 4.50 XC= 0.00 BS= 0/0027 TC= 1(0 86)
A= 546 pD= 0 SR=17.450 RA50=174.32 DEC50= 2.02 cone= 90.84 clock= 84.42
117MA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0027
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

C9JNEQU14501

DESIGN G3.1 jmart: 6/12/1997 11:36: 8

FILE:P.C9JNEQU14501

CENTRAL BODY:JUPITER III

MINI:m.C9JNEQU14501

S/C EPH:/DATA/NAVIO/T-970513-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:HPB 97-253/00:00:24.333 +CDS 813:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:C9JNEQU14501 **DESCRIP:Jupiter_Equatorial_145_Deg_Phase**

Jupiter Equatorial 145 Degrees Phase **ACTIVITY ID: C9JNEQU14501-**
START TIME: 97-253/13:38:23.666

Activity ID: Orbit C9 Target J Inst N OAPEL EQU145 SeqNo 01 -

Title	**Jupiter Equatorial 145 Degrees Phase**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**09/10/97**	**Week 37**

Start	**HPB+CDS 00000809:00:0**	**97-253/13:38:23.666**	**HPB+000/13:37:59.333**
End	**HPB+CDS 00000814:00:0**	**97-253/13:43:26.999**	**HPB+000/13:43:02.666**
Duration	**00000005:00:0**	**000/00:05:03.333**	**000/00:05:03.333**

Top Label	**C9JNEQU14501-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

145 degrees phase angle observation of the Equator. Observation centered at 86 degrees West longitude, 0 degrees North latitude.
Jupiter imaged in 25 colors, using NIMS downlink wavelength table JFT25A.

Data Returned

Design Detail

Shortmap, Nyquist sample, observation of approximately 0.5 X 1 (5 X 10 mrad) area centered on Equatorial bright limb near 86 degrees West longitude, 0 degrees latitude.
Spacecraft distance 5.02 million KM, NIMS IFOV (NIMSel) = 2510 KM.
About 50 seconds of scanning, accumulating 0.080 MBTG in 25 colors, and using 0.00168 tracks. Three RIMS reserved for targetting.
Observation occurs during the second SSI off-earthline turn.

Short Map (SM), Gain 2, Grating Start 1, LPU, C9JFT68C, C9JFT68C

Galileo Activity Plan Form **06/09/97 10:29:50 rev 6/95**

NIMS SAFE AND CHOPOFF	ACTIVITY ID: C9NNCHOPOF05- START TIME: 97-253/13:47:29.666

Activity ID: Orbit C9 Target N Inst N OAPEL CHOPOF SeqNo 05 -

Title	NIMS SAFE AND CHOPOFF			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	09/10/97 Week 37
Start	HPB+CDS 00000818:00:0	97-253/13:47:29.666		HPB+000/13:47:05.333	
End	HPB+CDS 00000829:00:0	97-253/13:58:36.999		HPB+000/13:58:12.666	
Duration	00000011:00:0	000/00:11:07.333		000/00:11:07.333	

Top Label	C9NNCHOPOF05-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To preserve the NIMS chopper life.

Design Detail

Use a NIMSTAB PA to reset wavelength table with parameters
04,C4,02,00,00 and to issue a 37IOP,0,0 to put NIMS in safe.
Then:
Use two NIMS 37IST commands to turn chopper off:
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)
37IST,0,1,1,0,OFF,0,0,0 (Change Chopper 63Hz to OFF)
Also use a NIMS 37MB command to reset the mirror positions:
37MB,0,0,0,0,0,0 (00000,00000)