NIMS LOW LIGHT CALIBRATION AND AURORA

ACTIVITY ID: E2WNLOWCAL01-
START TIME: ECA-CDS 00000297:00:0

Activity ID Orbit E2 Target W Inst N OAPEL LOWCAL SeqNo 01 Multi -
Title NIMS LOW LIGHT CALIBRATION AND AURORA
Requestor R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE11 Calendar Date / / Week

Start	ECA-CDS 00000297:00:0	92-343/10:09:07	ECA-000/05:00:18
End	ECA-CDS 00000237:00:0	92-343/11:09:47	ECA-000/03:59:38
Duration	00000060:00:0	000/01:00:40	000/01:00:40

Inertial SP Y Earth Ref N Spin Stat D Coop Imag F DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	SSI F	PWS F	EUV F	EPD F	NIM%	UVS F
MAG F	AACS	PWSW	HIC F	PPR F	NIMS T	PLS F

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

Observation of dark Earth for calibration of NIMS's low light levels and for study of aurora borealis.

Design Detail

CDS 287 POINTER Design Y Frames 0.00 Exc Alias

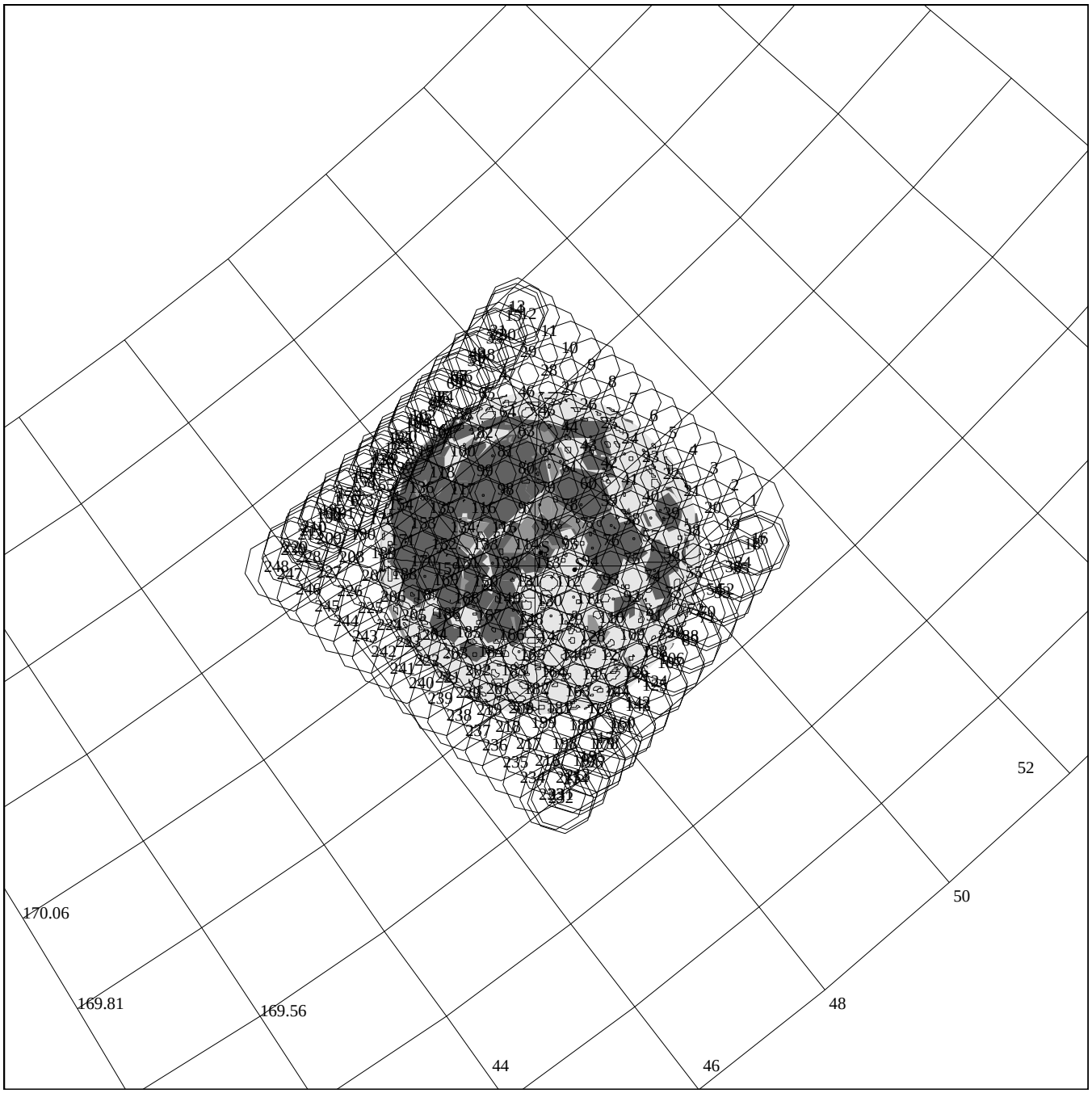
Mosaic of Northern Hemisphere in special sequence mode.

Special Sequence: SM, Grating Step 2 (FM), PTAB: (1 1 0 11 2 6)
Gain State 4 "SM grating cycle with FM grating step"
Grating Start 11
Chopper Mode Reference.
Spectrum: a FM spectrum with first half of each detector range missing.

Mosaic: 6 long WE slews across the dark North polar region starting at the north pole and working towards lower latitudes, followed by 5 short slews across the Japan area. The scan platform enters the cone pole region (cone angle less than 30 degrees) on the west side of the mosaic at the start of each of the 6 long slews. The western limb is dayside.
SSI PICNOS: None

Created on	02/06/92	Version	9	|	07/18/94
Last Changed	11/30/92	Changed By	C. BYRNE	|	14:52:45

Galileo Activity Plan Form rev 6/93



E2LPLUNFAZ06

POINTER C5.1

FILE:P.E2LPLUNFAZ06

CENTRAL BODY: MOON

MINI:m.E2LPLUNFAZ06

S/C EPH:/gptr/eph/E2IDA-111491.t

PERIAPSIS:92-343/15:10:23

START:92-343/11:14:50.133

ACTIVITY:E2LPLUNFAZ06

DESCRIP:13 DEG PHASE

PPR LUNAR PHASE ANGLE CALIBRATION SET ACTIVITY ID: E2LPLUNFAZ06-
START TIME: ECA-CDS 00000241:00:0

Activity ID Orbit E2 Target L Inst P OAPEL LUNFAZ SeqNo 06 Multi -
Title PPP Lunar Phase Angle Calibration Set
Requestor L. TAMPARRI Working Group
Bottom Label Plot Key PPR Science Team PPR

Time System CDS Load ID EE11 Calendar Date / / Week

Start	**ECA-CDS 00000241:00:0**	**92-342/11:05:45**	**ECA-000/04:03:40**
End	**ECA-CDS 00000199:00:0**	**92-342/11:48:13**	**ECA-000/03:21:12**
Duration	**00000042:00:0**	**000/00:42:28**	**000/00:42:28**

Inertial SP N Earth Ref N Spin Stat D Coop Imag F DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	**SSI F**	**PWS F**	**EUV F**	**EPD T**	**NIM%**	**UVS F**
MAG F	**AACS**	**PWSW**	**HIC F**	**PPR T**	**NIMS T**	**PLS F**

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	**EUV**	**PLS**	**EPD**	**NIMS**
MAG	**HIC**	**PWS**	**UVS**	**OPNAV**

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

The Lunar Phase Angle Calibration Set is a set of observations spaced in roughly 30 degree phase angle increments. The objective is to observe a known body (Earth's moon) in polarimetry/photometry mode to understand the polarization data from the PPR. This will enable the interpretation of similar data taken on the Galilean satellites.

Design Detail

CDS 128 POINTER Design N Frames 0.00 Exc Alias

This observation will be at 13 degrees phase (the minimum phase angle on the moon for this encounter). It will be one mosaic of the lit part of the moon. The scan rate will be approximately 0.07 mrad/sec

Created on 02/20/92 Version 2 |07/18/94
Last Changed 03/10/92 Changed By L. TAMPPARI |14:50:20

Galileo Activity Plan Form rev 6/93

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NO OBSERVATION OF EARTH PERIOD ACTIVITY ID: E2ENNOOBS 01-
1 OF 6 START TIME: ECA-CDS 00000168:52:0

Activity ID Orbit E2 Target E Inst N OAPEL NOOBS SeqNo 01 Multi -
Title No Observation of Earth Period
Requestor R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE11 Calendar Date / / Week

Start	ECA-CDS 00000168:52:0	92-343/12:18:59	ECA-000/02:50:26
End	ECA-CDS 00000168:48:0	92-343/12:19:01	ECA-000/02:50:24
Duration	00000000:04:0	000/00:00:02	000/00:00:02

Inertial SP Y Earth Ref N Spin Stat D Coop Imag F DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	SSI F	PWS F	EUV F	EPD F	NIM%	UVS F
MAG F	AACS	PWSW	HIC F	PPR F	NIMS F	PLS F

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

No observation of the Earth to be done by any of the scan platform instruments to avoid overheating the NIMS focal plane. If overheated, no NIMS observations will be possible for at least 24 hours.

Design Detail

CDS 35 POINTER Design Y Frames 0.00 Exc Alias

Point scan platform to a safe position so that the Earth lies outside of the NIMS Radiator field of view.

Position is: Cone 60.0, Clock 97.44, RA = 313.52, Dec = -18.71

Slew Rate = 17.45 mrad/sec
Slew allocation = + CDS 4:00:00
Special Sequence: SM, Grating Step 2 (FM), PTAB: (1 1 0 11 2 6)
Gain State 4 "SM grating cycle with FM grating step"
Grating Start 11
Chopper Mode 63 Hz.
Spectrum: a FM spectrum with first half of each detector range missing.
SSI PICNOS: None

Created on	02/05/92	Version	8	|	07/18/94
Last Changed	10/26/92	Changed By	R. LOPES	|	14:52:49

NO OBSERVATION OF EARTH PERIOD ACTIVITY ID: E2ENNOOBS 02-
2 OF 6 START TIME: ECA-CDS 00000001:39:0

Activity ID Orbit E2 Target E Inst N OAPEL NOOBS SeqNo 02 Multi -
Title No Observation of Earth Period
Requestor R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE11 Calendar Date / / Week

Start	ECA-CDS 00000001:39:0	92-343/15:07:59	ECA-000/00:01:26
End	ECA-CDS 00000001:33:0	92-343/15:08:03	ECA-000/00:01:22
Duration	00000000:06:0	000/00:00:04	000/00:00:04

Inertial SP Y Earth Ref N Spin Stat D Coop Imag F DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	SSI F	PWS F	EUV F	EPD F	NIM%	UVS F
MAG F	AACS	PWSW	HIC F	PPR F	NIMS F	PLS F

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

No observation of the Earth to be done by any of the scan platform instruments to avoid overheating the NIMS focal plane. If overheated, no NIMS observations will be possible for at least 24 hours.

Design Detail

CDS 35 POINTER Design Y Frames 0.00 Exc Alias

Point scan platform to a safe position so that the Earth lies outside of the NIMS Radiator field of view.

Position is: Cone 2.0, Clock 79.134, RA = 250.80, Dec = -24.56

Slew Rate = 2.94 mrad/sec
Slew allocation = + CDS 6:30:00
Special Sequence: SM, Grating Step 2 (FM), PTAB: (1 1 0 11 2 6)
Gain State 4 "SM grating cycle with FM grating step"
Grating Start 11
Chopper Mode 63 Hz.
Spectrum: a FM spectrum with first half of each detector range missing.
SSI PICNOS: None

Created on	02/05/92	Version	10	|	07/18/94
Last Changed	10/26/92	Changed By	R. LOPES	|	14:52:53

Galileo Activity Plan Form rev 6/93

NO OBSERVATION OF EARTH PERIOD ACTIVITY ID: E2ENNOOBS 03-
3 OF 6 START TIME: ECA+CDS 00000005:85:0

Activity ID Orbit E2 Target E Inst N OAPEL NOOBS SeqNo 03 Multi -
Title No Observation of Earth Period
Requestor R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System UTC Load ID EE11 Calendar Date / / Week

Start	ECA+CDS 00000005:85:0	92-343/15:15:25	ECA+000/00:06:00
End	ECA+CDS 00000006:74:0	92-343/15:16:17	ECA+000/00:06:52
Duration	00000000:80:0	000/00:00:52	000/00:00:52

Inertial SP Y Earth Ref N Spin Stat D Coop Imag F DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	SSI F	PWS F	EUV F	EPD F	NIM%	UVS F
MAG F	AACS	PWSW	HIC F	PPR F	NIMS F	PLS F

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

No observation of the Earth to be done by any of the scan platform instruments to avoid overheating the NIMS focal plane. If overheated, no NIMS observations will be possible for at least 24 hours.

Design Detail

CDS 35 POINTER Design Y Frames 0.00 Exc Alias

Point scan platform to a safe position so that the Earth lies outside of the NIMS Radiator field of view.

Position is: Cone 2.0, Clock 10.00, RA = 248.61, Dec = -25.64

Slew Rate = 3.63 mrad/sec
Slew allocation = + CDS 5:70:00
Special Sequence: SM, Grating Step 2 (FM), PTAB: (1 1 0 11 2 6)
Gain State 4 "SM grating cycle with FM grating step"
Grating Start 11
Chopper Mode 63 Hz.
Spectrum: a FM spectrum with first half of each detector range missing.
SSI PICNOS: None

Created on	02/05/92	Version	9	|	07/18/94
Last Changed	10/26/92	Changed By	R. LOPES	|	14:52:57

Galileo Activity Plan Form rev 6/93

NO OBSERVATION OF EARTH PERIOD ACTIVITY ID: E2ENNOOBS 04-
4 OF 6 START TIME: ECA+CDS 00000011:59:0

Activity ID Orbit E2 Target E Inst N OAPEL NOOBS SeqNo 04 Multi -
Title No Observation of Earth Period
Requestor R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System UTC Load ID EE11 Calendar Date / / Week

Start	ECA+CDS 00000011:59:0	92-343/15:21:14	ECA+000/00:11:49
End	ECA+CDS 00000015:65:0	92-343/15:25:18	ECA+000/00:15:53
Duration	00000004:06:0	000/00:04:04	000/00:04:04

Inertial SP Y Earth Ref N Spin Stat D Coop Imag F DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	SSI F	PWS F	EUV F	EPD F	NIM%	UVS F
MAG F	AACS	PWSW	HIC F	PPR F	NIMS F	PLS F

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

No observation of the Earth to be done by any of the scan platform instruments to avoid overheating the NIMS focal plane. If overheated, no NIMS observations will be possible for at least 24 hours.

Design Detail

CDS 35 POINTER Design Y Frames 0.00 Exc Alias

Point scan platform to a safe position so that the Earth lies outside of the NIMS Radiator field of view.

Position is: Cone 2.0, Clock 344.52, RA = 247.68, Dec = -25.36

Slew Rate = 17.45 mrad/sec
Slew allocation = + CDS 4:00:00
Special Sequence: SM, Grating Step 2 (FM), PTAB: (1 1 0 11 2 6)
Gain State 4 "SM grating cycle with FM grating step"
Grating Start 11
Chopper Mode 63 Hz.
Spectrum: a FM spectrum with first half of each detector range missing.
SSI PICNOS: None

Created on	02/05/92	Version	8	|	07/18/94
Last Changed	10/26/92	Changed By	R. LOPES	|	14:53:01

Galileo Activity Plan Form rev 6/93

NO OBSERVATION OF EARTH PERIOD ACTIVITY ID: E2ENNOOBS 05-
5 OF 6 START TIME: ECA+CDS 00000026:64:0

Activity ID Orbit E2 Target E Inst N OAPEL NOOBS SeqNo 05 Multi -
Title No Observation of Earth Period
Requestor R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System UTC Load ID EE11 Calendar Date / / Week

Start	ECA+CDS 00000026:64:0	92-343/15:36:25	ECA+000/00:27:00
End	ECA+CDS 00000036:64:0	92-343/15:46:33	ECA+000/00:37:08
Duration	00000010:00:0	000/00:10:08	000/00:10:08

Inertial SP Y Earth Ref N Spin Stat D Coop Imag F DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	SSI F	PWS F	EUV F	EPD F	NIM%	UVS F
MAG F	AACS	PWSW	HIC F	PPR F	NIMS F	PLS F

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

No observation of the Earth to be done by any of the scan platform instruments to avoid overheating the NIMS focal plane. If overheated, no NIMS observations will be possible for at least 24 hours.

Design Detail

CDS 35 POINTER Design Y Frames 0.00 Exc Alias

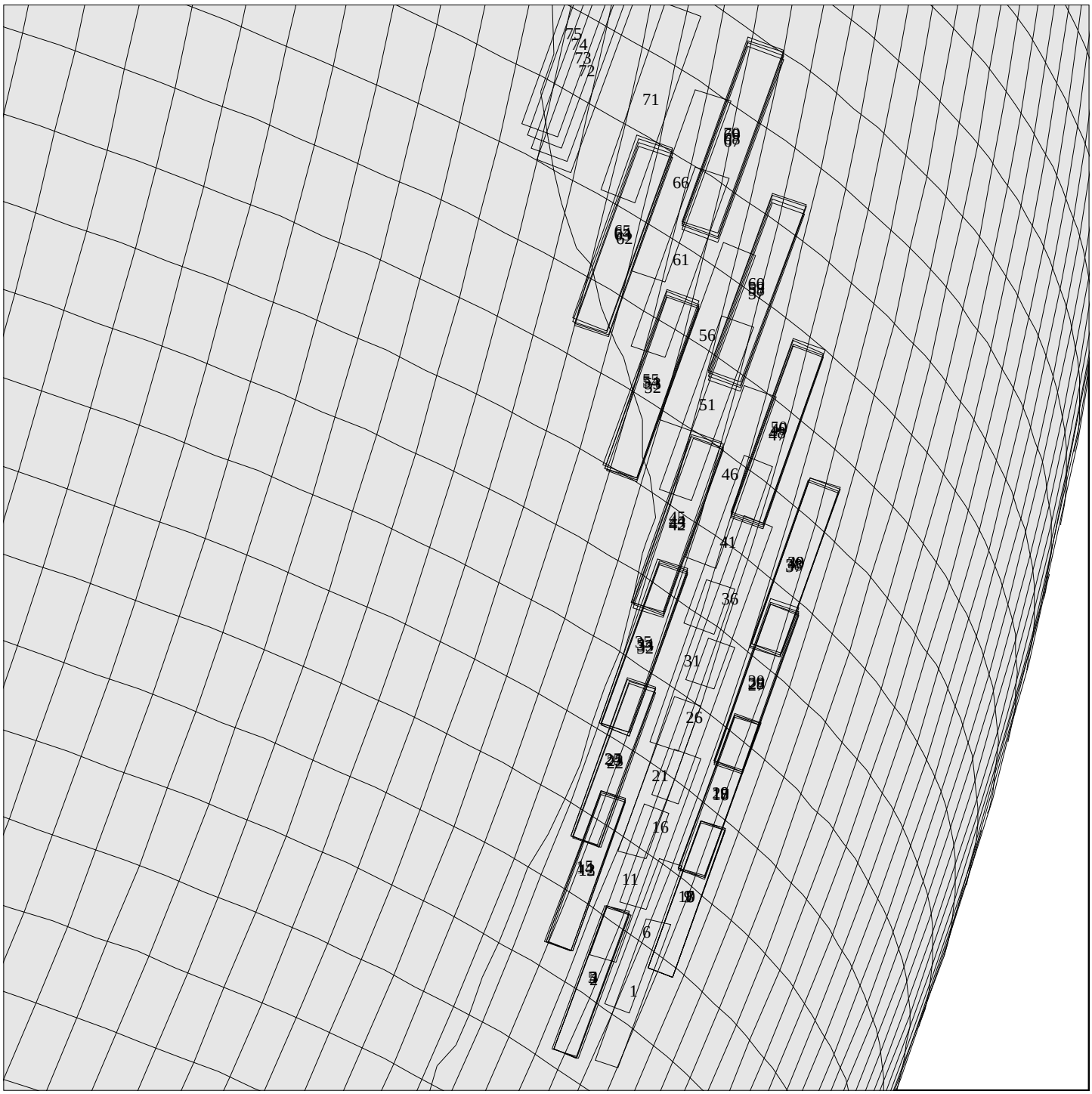
Point scan platform to a safe position so that the Earth lies outside of the NIMS Radiator field of view.

Position is: Cone 60.0, Clock 295.46, RA = 184.02, Dec = -19.19

Slew Rate = 2.29 mrad/sec
Slew allocation = + CDS 10:00:00
Special Sequence: SM, Grating Step 2 (FM), PTAB: (1 1 0 11 2 6)
Gain State 4 "SM grating cycle with FM grating step"
Grating Start 11
Chopper Mode 63 Hz.
Spectrum: a FM spectrum with first half of each detector range missing.
SSI PICNOS: None

Created on	02/05/92	Version	8	|	07/18/94
Last Changed	10/26/92	Changed By	R. LOPES	|	14:53:05

Galileo Activity Plan Form rev 6/93



E2WNANDES_01

POINTER C5.1

FILE:P.E2WSANDES_01

CENTRAL BODY:EARTH

MINI:m.E2WSANDES_01

S/C EPH:/gptr/eph/E2IDA-111491.t

PERIAPSIS:92-343/15:10:23

START:92-343/15:45:48.733

ACTIVITY:E2WSANDES_01 **DESCRIP:ANDES MOSAIC**

MOSAIC OF ANDES

ACTIVITY ID: E2WNANDES 01*
START TIME: ECA+CDS 00000036:00:0

Activity ID Orbit E2 Target W Inst N OAPEL ANDES SeqNo 01 Multi *
Title Mosaic of Andes
Requestor H.Breneman/R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE11 Calendar Date / / Week

Start	ECA+CDS 00000036:00:0	92-343/15:45:49	ECA+000/00:36:24
End	ECA+CDS 00000046:00:0	92-343/15:55:55	ECA+000/00:46:30
Duration	00000010:00:0	000/00:10:06	000/00:10:06

Inertial SP Y Earth Ref N Spin Stat D Coop Imag T DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	SSI T	PWS F	EUV F	EPD F	NIM%	UVS F
MAG F	AACS	PWSW	HIC F	PPR F	NIMS T	PLS F

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

High resolution mosaic of Andes.

Design Detail

CDS 0 POINTER Design Y Frames 0.00 Exc Alias WSANDES01

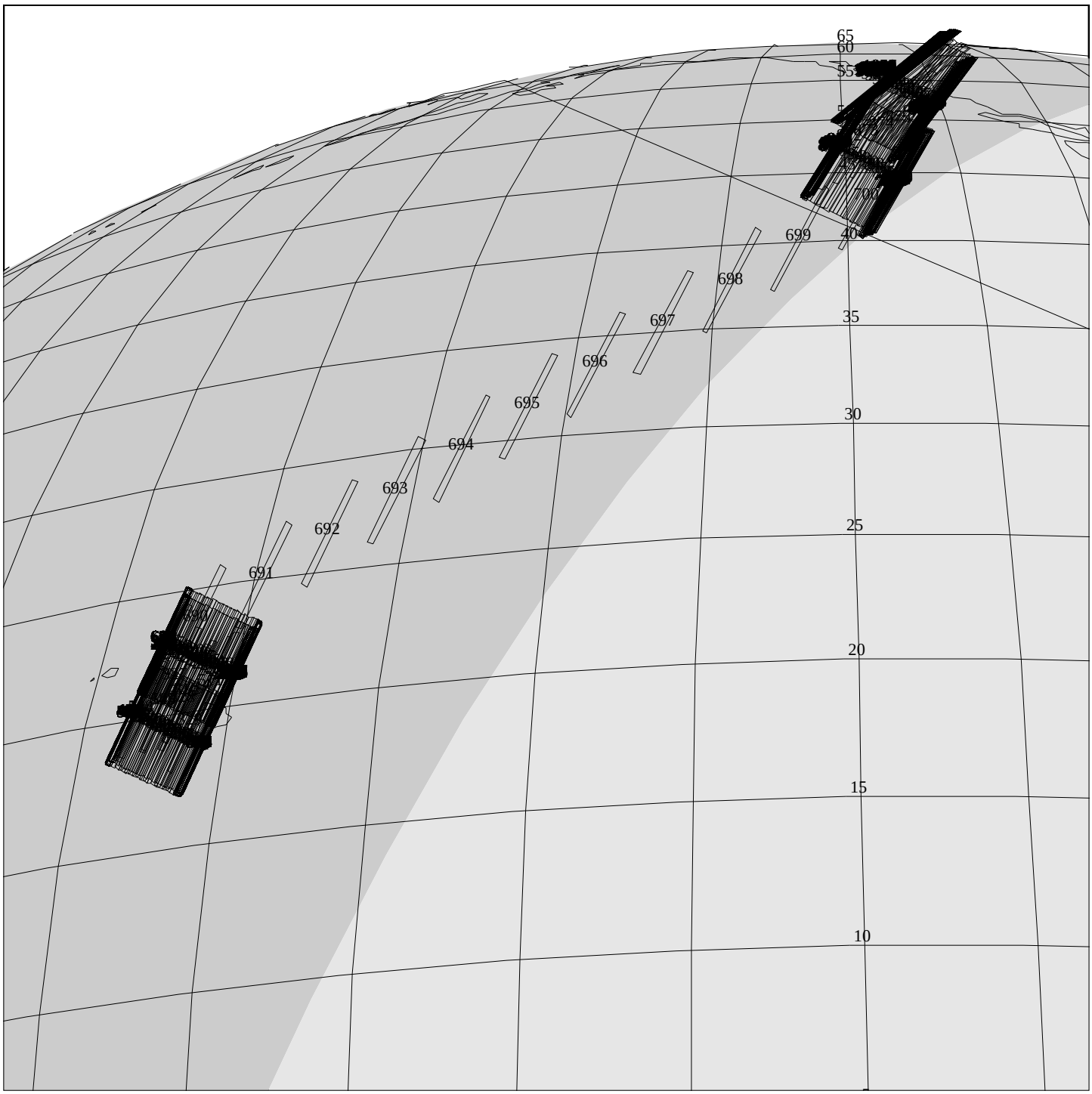
Ridealong with SSI Andes observation. SSI mode 8 2/3 sec, 5 frames in each position (5 x 8 2/3 sec in each position). Slew rate 4.85 mrad/sec

Long Map
Gain State 1
Grating Start Position 0
Chopper Mode 63 Hz

SSI PICNOS: E2W0001 - E2W0070

Created on	10/23/92	Version	3	|	07/18/94
Last Changed	11/30/92	Changed By	C. BYRNE	|	14:53:09

Galileo Activity Plan Form rev 6/93



E2WNHAWAUR01

POINTER C5.1

FILE:P.E2WSHAWAUR01

CENTRAL BODY:EARTH

MINI:m.E2WSHAWAUR01

S/C EPH:/gptr/eph/E2IDA-111491.t

PERIAPSIS:92-343/15:10:23

START:92-343/16:09:04.066

ACTIVITY:E2WSHAWAUR01 **DESCRIP:DARK HAWAII/AURORA**

HAWAII AND AURORA OBSERVATION ACTIVITY ID: E2WNHAWAUR01*
START TIME: ECA+CDS 00000059:00:0

Activity ID Orbit E2 Target W Inst N OAPEL HAWAUR SeqNo 01 Multi *
Title Hawaii and aurora observation
Requestor H. Breneman/R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE11 Calendar Date / / Week

Start	ECA+CDS 00000059:00:0	92-343/16:09:04	ECA+000/00:59:39
End	ECA+CDS 00000071:00:0	92-343/16:21:12	ECA+000/01:11:47
Duration	00000012:00:0	000/00:12:08	000/00:12:08

Inertial SP Y Earth Ref N Spin Stat D Coop Imag T DSP .F. RSTrack

RECORD: Format Record Duration Tic Duration
Multiple Records Acq Start/Stop Cycles 0 Start Tics 0 Track

Instrument Compression:

DDS F	SSI T	PWS F	EUV F	EPD F	NIM%	UVS F
MAG F	AACS	PWSW	HIC F	PPR F	NIMS T	PLS F

REALTIME: RTS FORMAT RTS Rate Playback Duration

DDS	EUV	PLS	EPD	NIMS
MAG	HIC	PWS	UVS	OPNAV

Tracks 0.0000 Bits-to-Ground 0 Playback S/S Cycles 0

Observation Objective

Nightime observation of Hawaii and aurora borealis

Design Detail

CDS 0 POINTER Design Y Frames 0.00 Exc Alias WSHAWAUR01

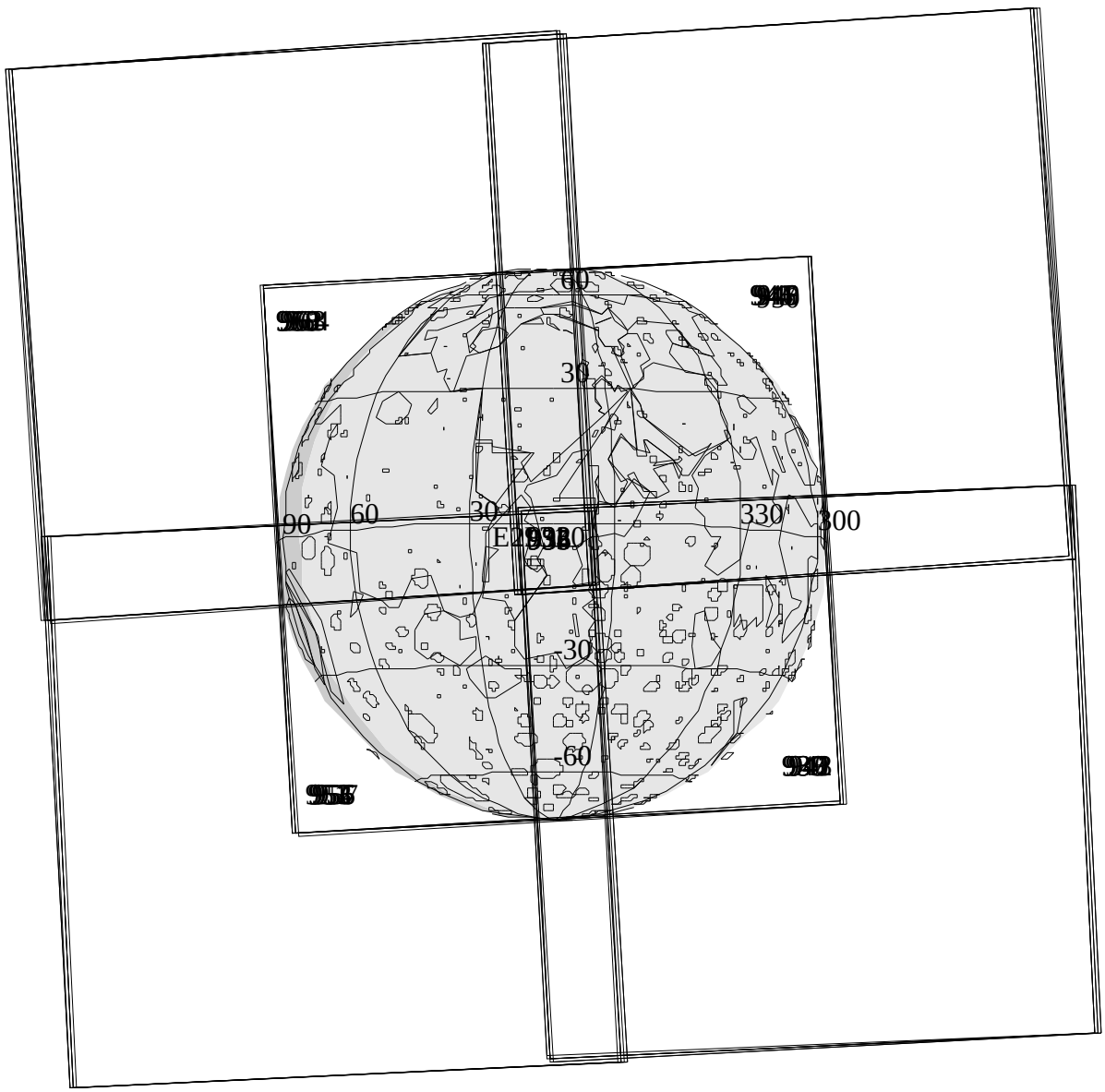
Ridealong with SSI observation. SSI mode 30 1/3 sec, 2 frames in each position, slew rate 0.55 mrad/sec.
Fixed Map
Gain State 1
Grating Start Position 0
Chopper Mode 63 Hz

Mosaic: 2 swaths over dark Hawaiian Islands region, repeat;
fast slew to northern latitudes;
2 swaths over dark aurora region near the Terminator, repeat.

SSI PICNOS: E2W0080 - E2W0099

Created on	10/23/92	Version	3	|	07/18/94
Last Changed	11/30/92	Changed By	C. BYRNE	|	14:53:17

Galileo Activity Plan Form rev 6/93



E2LSLUNMOS08

POINTER C5.1

FILE:P.E2LSLUNMOS08

CENTRAL BODY: MOON

MINI:m.E2LSLUNMOS08

S/C EPH:/gptr/eph/E2IDA-111491.t

PERIAPSIS:92-343/15:10:23

START:92-343/17:05:41.400

ACTIVITY:E2LSLUNMOS08 **DESCRIP:SSI CALIBRATION TO EM1 LUNMAP11**