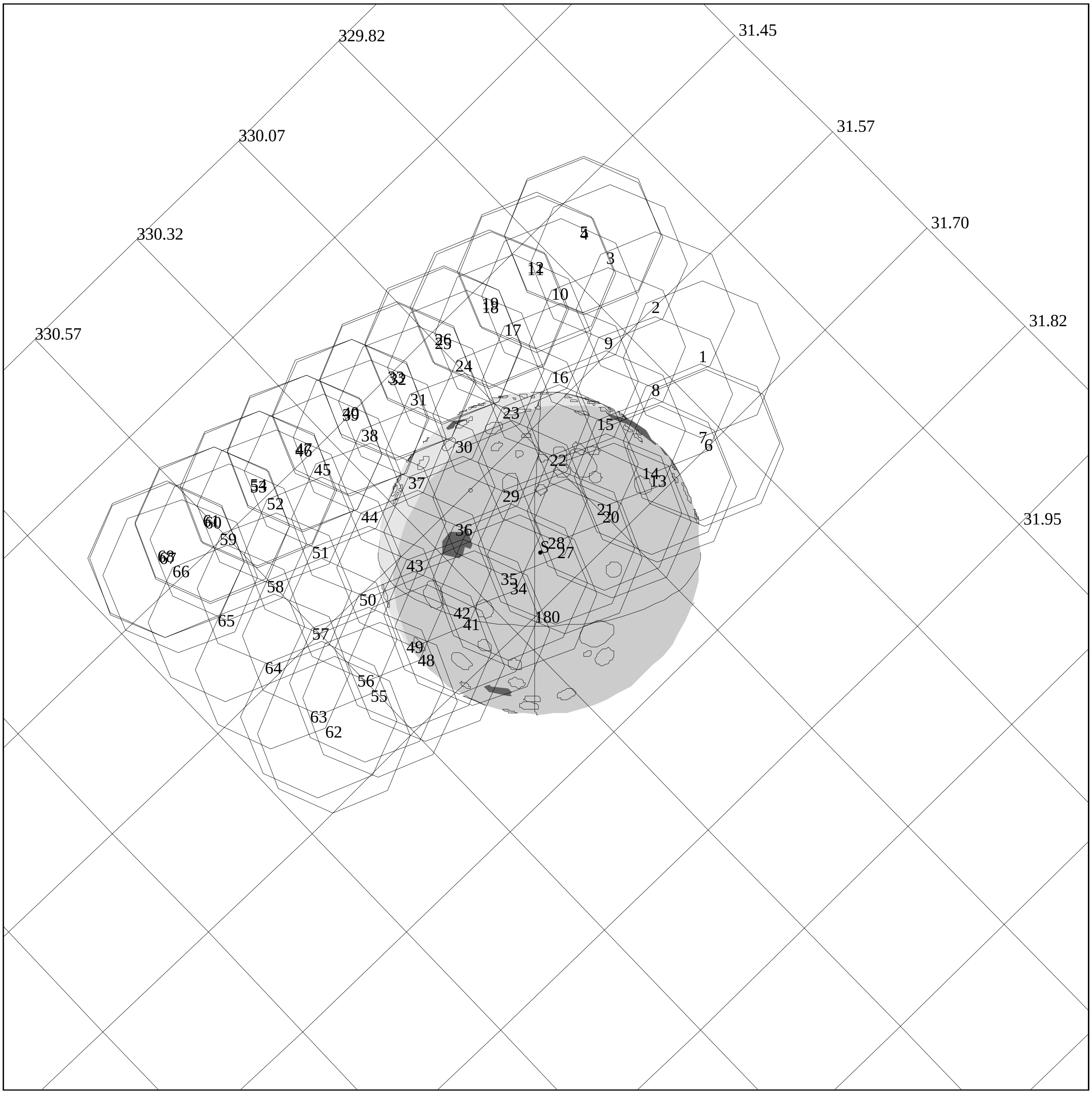
DETAILED OBSERVATION DESIGNS

EE11

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.

Some additional observations have been added to the original E2 Nimsguide. These are observations where NIMS is riding along behind either PPR or SSI. For these observations, the pointer plots show the footprint of the primary instrument (PPR UVS or SSI). Since these observations were not considered as NIMS observations during the E2 planning stage, pointer plots using the NIMS footprint were never produced.



E2LPLUNFAZ01

POINTER C5.1

FILE:P.E2LPLUNFAZ01

CENTRAL BODY: MOON

MINI:m.E2LPLUNFAZ01

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

PERIAPSIS:92-343/15:10:23

START:92-342/07:14:00.800

ACTIVITY:E2LPLUNFAZ01 **DESCRIP:144 DEG PHASE**

```
PPR LUNAR PHASE ANGLE CALIBRATION SET  ACTIVITY ID: E2LPLUNFAZ01-
                                        START TIME: ECA-CDS 00001424:00:0

Activity ID  Orbit E2  Target L  Inst P  OAPEL LUNFAZ  SeqNo 01  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 00001424:00:0   92-342/15:09:36   ECA-000/23:59:49
End          ECA-CDS 00001409:00:0   92-342/15:24:46   ECA-000/23:44:39
Duration             00000015:00:0      000/00:15:10       000/00:15:10

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.

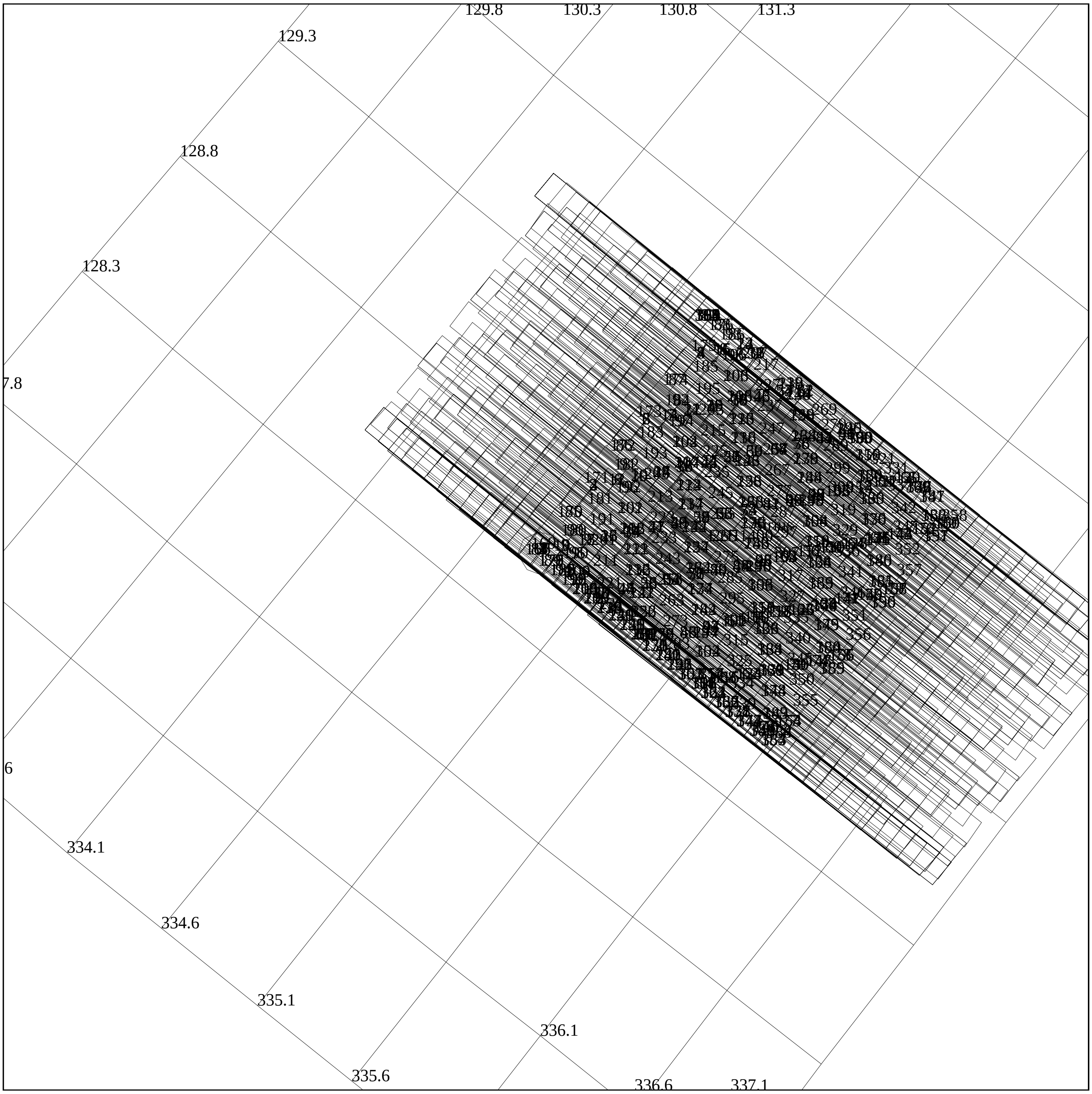
Design Detail

```
 CDS   128  POINTER Design N  Frames     0.00  Exc      Alias
```

This observation of the moon will be at about 138 degrees phase. It will be one mosaic of the lit crescent of the moon using the polarimetry/photometry mode. The scan rate will be approximately 0.1 mrad/sec.

```
Created on      02/20/92      Version      3                      |07/18/94
Last Changed    03/12/92      Changed By  L. TAMPPARI             |14:50:20
```

Galileo Activity Plan Form   rev 6/93



E2HUUSTAR_02

POINTER C5.1

FILE:P.E2HUUSTAR_02

CENTRAL BODY:EARTH

MINI:m.E2HUUSTAR_02

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

PERIAPSIS:92-343/15:10:23

START:92-342/07:37:37.466

ACTIVITY:E2HUUSTAR_02 **DESCRIP:UVS STARCAL ON SIRIUS**

```
UVS STAR CALIBRATION 2 (SIRIUS)        ACTIVITY ID: E2HUUSTAR_02-
                                        START TIME: ECA-CDS 00001404:00:0
```

```
Activity ID  Orbit E2  Target H  Inst U  OAPEL USTAR   SeqNo 02  Multi -
Title        UVS Star Calibration (Sirius)
Requestor    UVS                                      Working Group
Bottom Label                      Plot Key  UVS       Science Team   UVS
```

```
Time System  CDS       Load ID  EE11    Calendar Date    /  /    Week

Start        ECA-CDS 00001404:00:0   92-342/15:29:59   ECA-000/23:39369
End          ECA-CDS 00001166:00:0   92-342/19:30:28   ECA-000/19:38:57
Duration             00000238:00:0      000/04:00:39      000/04:00:39
```

```
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

Star Calibration on Alpha-CMa (Sirius) at
  RA   06h 45m
  Dec -16d 43m

Design Detail

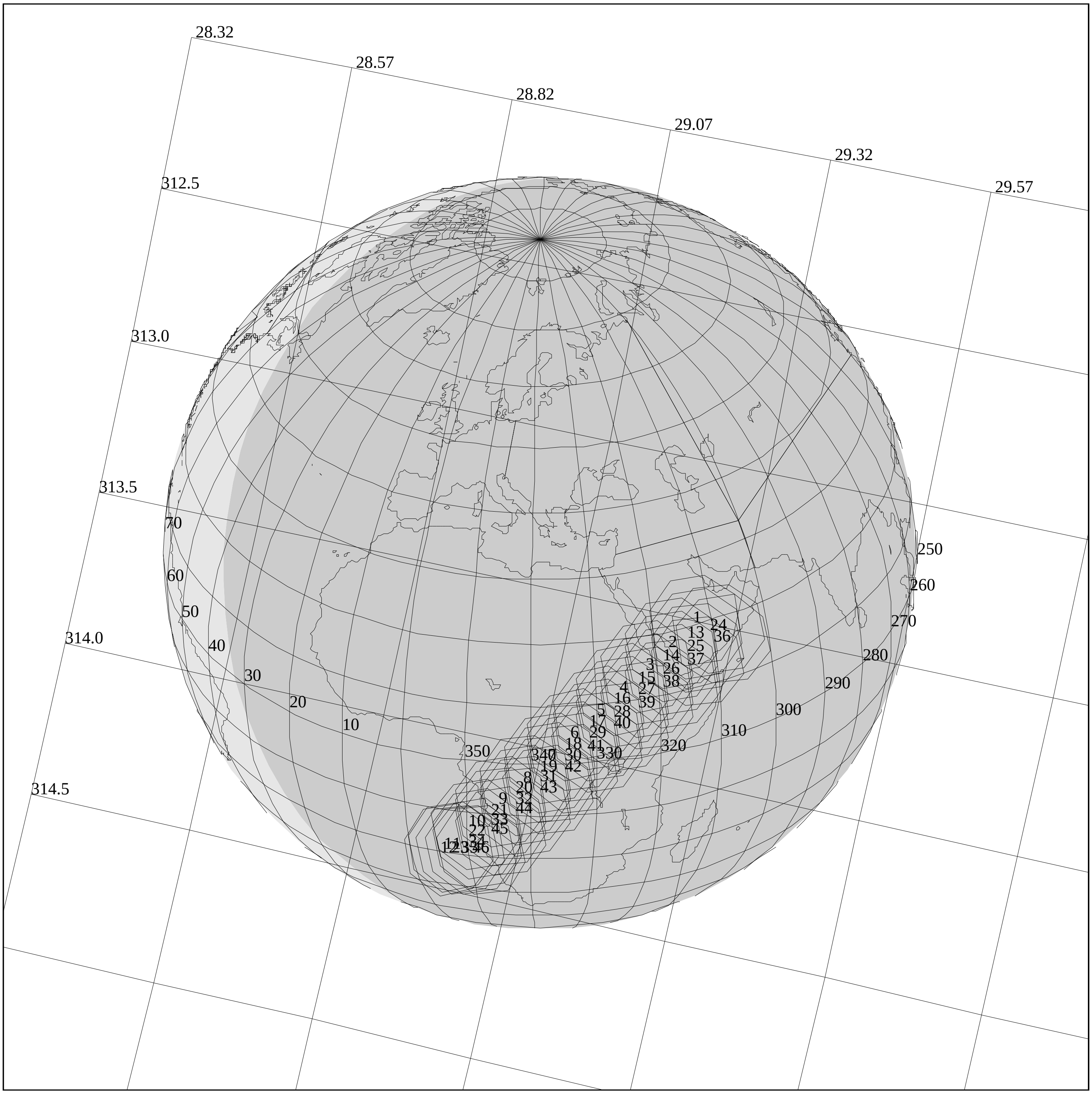
```
 CDS   275  POINTER Design N  Frames     0.00  Exc      Alias
```

Rectangular raster scan, approximately 0.4 by 0.8 deg, slewing in cone.
Step size 0.05 deg and slew rate approximately 10 microradians/sec.

Note: The cone resolution (about 1 mrad) in this mosaic is about ten times larger than the smallest step size used in the EE9 Sirius starcal observation E2HNSTARFL01 (alias E2HPTSTARS02).

```
Created on      02/20/92      Version      3                   |07/18/94
Last Changed    03/12/92      Changed By  L. TAMPPARI          |14:50:20
```

Galileo Activity Plan Form   rev 6/93



E2NNQUICAL06

POINTER C5.1

FILE:P.E2WPNITLIT01

CENTRAL BODY:EARTH

MINI:m.E2WPNITLIT01

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

PERIAPSIS:92-343/15:10:23

START:92-342/19:58:46.133

ACTIVITY:E2WPNITLIT01 **DESCRIP:LIGHTNING SEARCH**

ACTIVITY ID: E2NNQUICAL06*
START TIME: ECA-CDS 00001138:00:0

Activity ID Orbit E2 Target N Inst N OAPEL QUICAL SeqNo 06 Multi *
Title NIMS Quiet Test
Requestor J. HUI Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE11 Calendar Date / / Week

Start	ECA-CDS 00001138:00:0	92-342/19:58:47	ECA-000/19:10:38
End	ECA-CDS 00001110:00:0	92-342/20:27:05	ECA-000/18:42:20
Duration	00000028:00:0	000/00:28:18	000/00:28:18

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

NIMS will listen for noise from the EPD stepper motor.

Design Detail

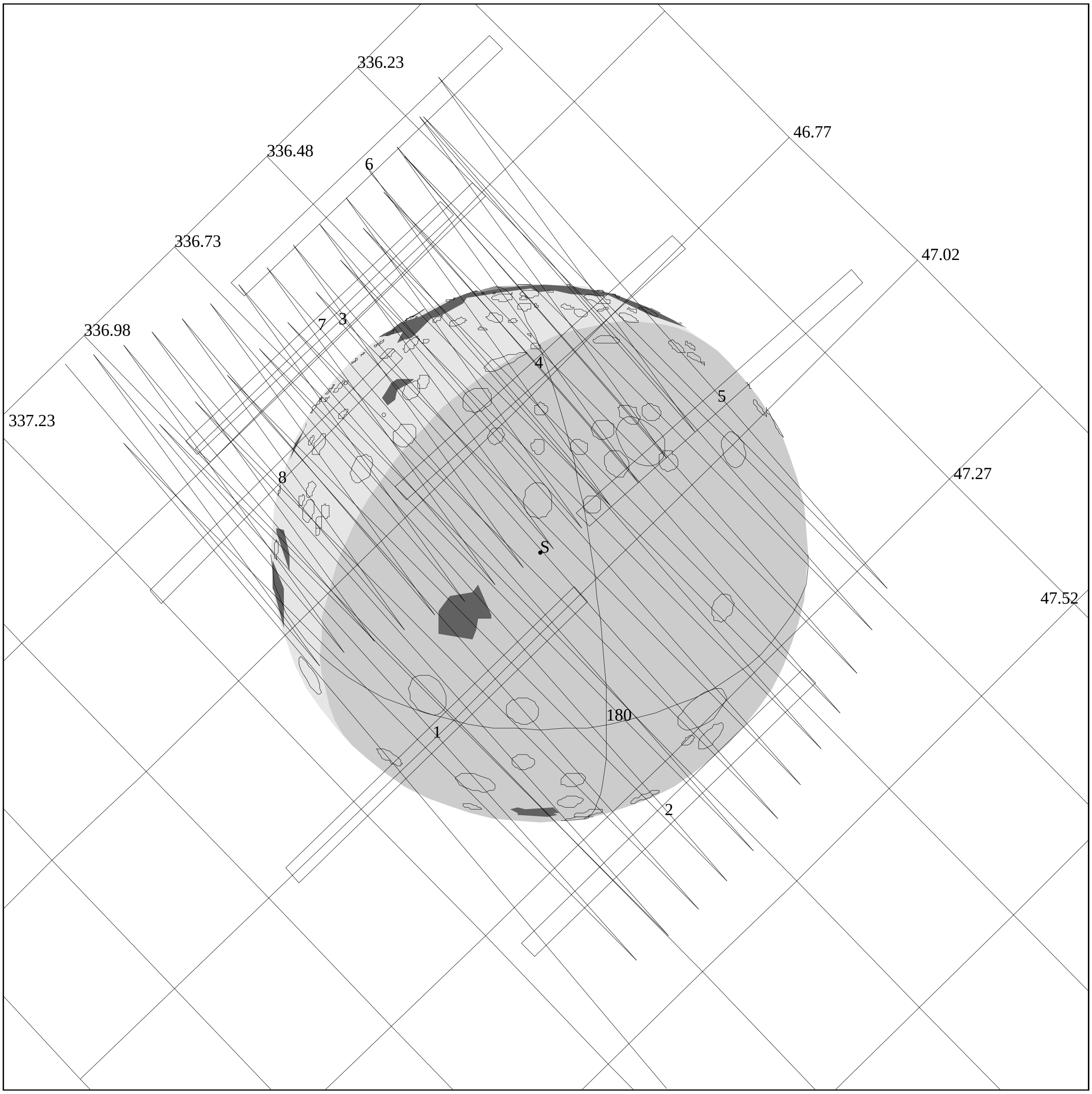
CDS 56 POINTER Design N Frames 0.00 Exc Alias E2WPNITLIT01

NIMS is riding along with the PPR WPNITLIT and EPD E2MEEPSCAN01 observations, NIMS is in Safe Mode for listening to noise from the EPD stepper motor. All NIMS requires is to be in the correct telemetry mode.

This is part of the full NIMS Quiet test which consists of listening for noise from the UVS grating motor, MAG inboard and outboard flippers, MAG internal and external calibration coils, SSI filter wheel, DDS high voltage setting 4, PPR filter wheel and EPD stepper motor.
Safe Mode (XS) 17 wavelengths
Gain State 4
Grating Start Position 0
Chopper Mode Reference
SSI PICNOS: None

Created on 02/25/92 Version 17 |07/18/94
Last Changed 11/11/92 Changed By J. HUI |14:50:20

Galileo Activity Plan Form rev 6/93



E2NNQUICAL07

POINTER C5.1

FILE:P.E2LPLUNFAZ02

CENTRAL BODY: MOON

MINI:m.E2LPLUNFAZ02

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

PERIAPSIS:92-343/15:10:23

START:92-342/20:32:08.133

ACTIVITY:E2LPLUNFAZ02 **DESCRIP:125-120 DEG PHASE**

ACTIVITY ID: E2NNQUICAL07*
START TIME: ECA-CDS 00001105:00:0

```
Activity ID  Orbit E2  Target N  Inst N  OAPEL QUICAL  SeqNo 07  Multi *
Title        NIMS Quiet Test
Requestor    J. HUI                                    Working Group
Bottom Label                     Plot Key  NIMS     Science Team   NIMS

Time System  CDS       Load ID  EE11    Calendar Date    /  /    Week

Start        ECA-CDS 00001105:00:0   92-342/20:32:09   ECA-000/18:37:16
End          ECA-CDS 00000996:00:0   92-342/22:22:21   ECA-000/16:47:04
Duration             00000109:00:0      000/01:50:12      000/01:50:12

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 F     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

NIMS will listen for noise from the PPR filter wheel. At the same time NIMS is getting an image of the Moon in SM mode.

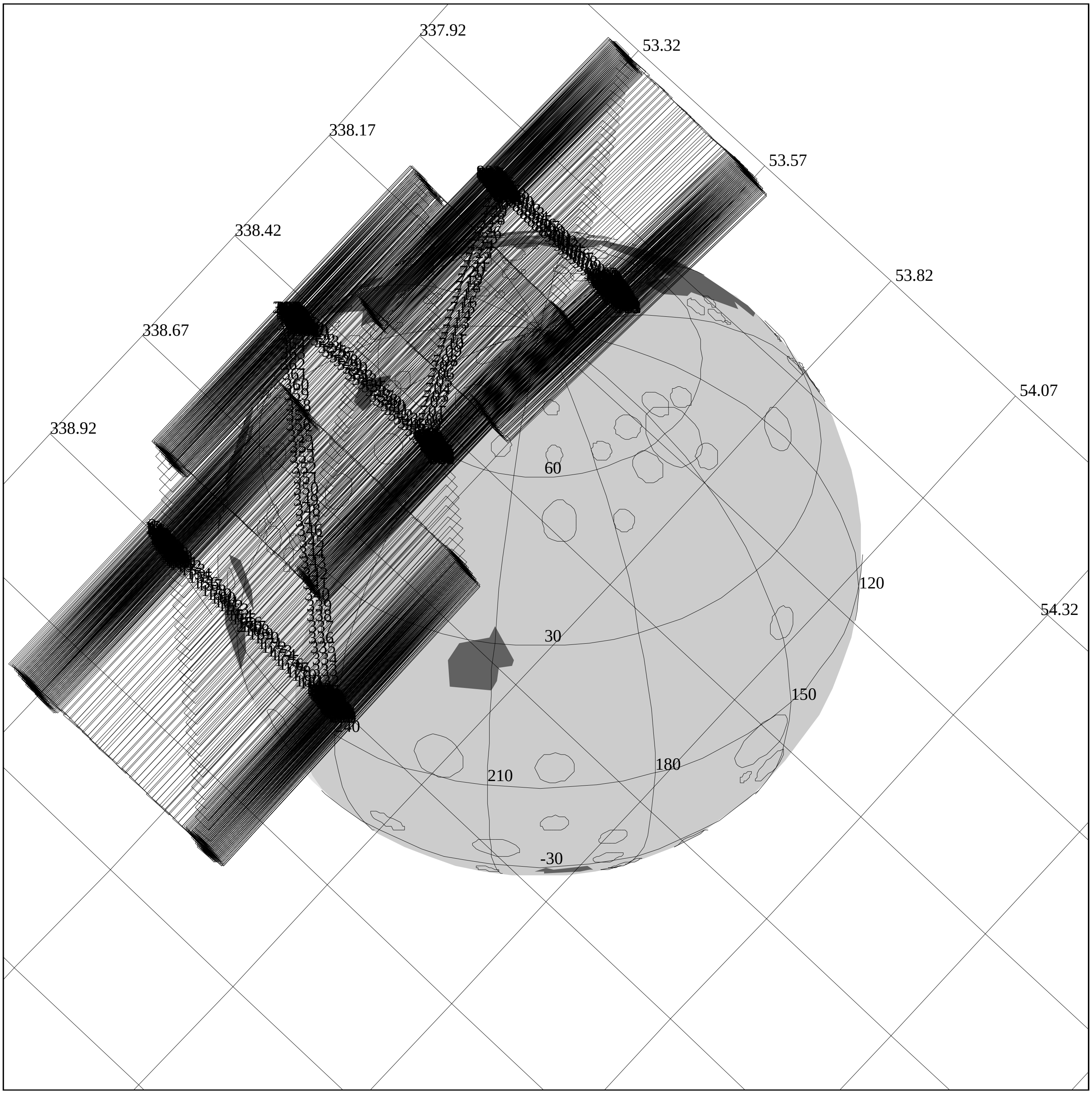
Design Detail

```
 CDS     0  POINTER Design N  Frames     0.00  Exc      Alias  E2LPLUNFAZ02
```

NIMS is riding along with the PPR LPLUNFAZ02 observations. NIMS is in Short Map Mode for listening to noise from the PPR filter wheel and mapping the entire moon at the save time.

This is part of the full NIMS Quiet test which consists of listening for noise from the UVS grating motor, MAG inboard and outboard flippers, MAG internal and external calibration coils, SSI filter wheel, DDS high voltage setting 4, PPR filter wheel and EPD stepper motor.
Short Map (SM) 102 wavelengths
Gain State 1
Grating Start Position 2
Chopper Mode 63Hz
SSI PICNOS: None

```
Created on      02/25/92      Version     17                    |07/18/94
Last Changed    11/11/92      Changed By  J. HUI                |14:50:24
```



E2LNPHASE_01

POINTER C5.1

FILE:P.E2LSLUNMOS01

CENTRAL BODY: MOON

MINI:m.E2LSLUNMOS01

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

PERIAPSIS:92-343/15:10:23

START:92-342/22:25:22.800

ACTIVITY:E2LSLUNMOS01 **DESCRIP:SSI PHASE ANGLE CVG/PHOTOMETRIC**

Activity ID Orbit E2 Target L Inst N OAPEL PHASE SeqNo 01 Multi *
Title NIMS Lunar Polar and Phase Coverage
Requestor J. HUI Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE11 Calendar Date / / Week

Start	ECA-CDS 00000995:00:0	92-342/22:23:22	ECA-000/16:46:03
End	ECA-CDS 00000937:00:0	92-342/23:22:01	ECA-000/15:47:24
Duration	00000058:00:0	000/00:58:39	000/00:58:39

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

Lunar phase coverage and polar observation. Phase range from 131.2 degrees to 128.4 degrees for part of phase curve.

Design Detail

CDS 14 POINTER Design Y Frames 0.00 Exc Alias E2LSLUNMOS01

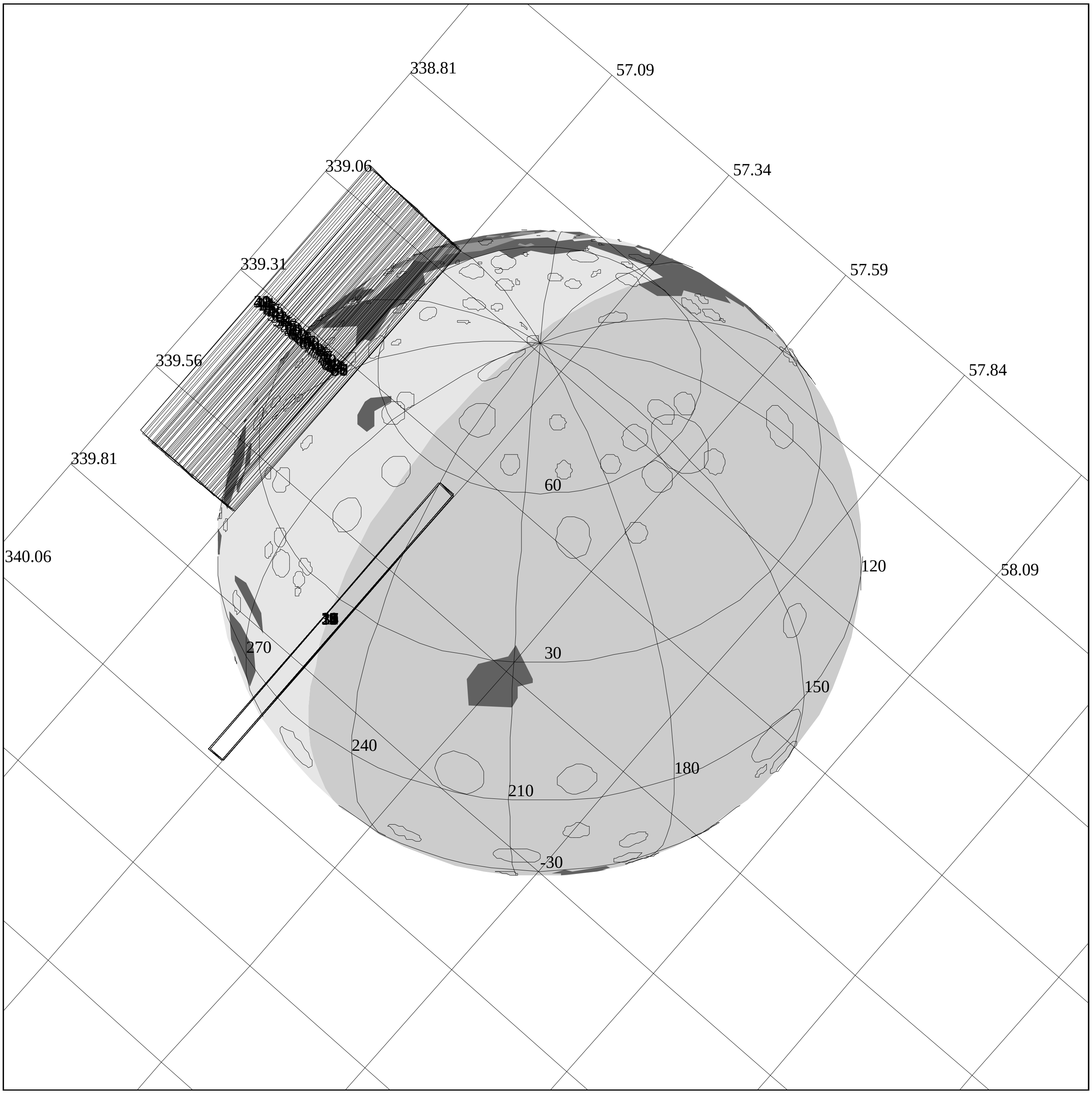
This IS a joint observation between NIMS and SSI. The observation covers the illuminated side of the Moon, including the North Pole. The scan rate is 0.06 mrad/sec (Double Nyquist slew rate for proper registration). The mosaic is 3 swaths in Short Map Mode (SM), 102 wavelengths.

Short Map (SM) 102 wavelengths.
Gain State 1
Grating Start Position 2
Chopper Mode 63 Hz

Mosaic: Three swaths, limb to terminator, Z scan, starting near the left side of the pointer plot near cone 53.32, clock 338.92.
SSI PICNOS: E2L0001 - E2L0082

Created on	02/24/92	Version	22	07/18/94
Last Changed	11/30/92	Changed By	C. BYRNE	14:50:28

Galileo Activity Plan Form rev 6/93



E2LN4GAIN_01

POINTER C5.1

FILE:P.E2LN4GAIN_01

CENTRAL BODY: MOON

MINI:m.E2LN4GAIN_01

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

PERIAPSIS:92-343/15:10:23

START:92-342/23:08:51.466

ACTIVITY:E2LN4GAIN_01 **DESCRIP:TARGET TO LAT/LON ON MOON**

```
NIMS 4 GAIN STATE CALIBRATION         ACTIVITY ID: E2LN4GAIN 01-
                                       START TIME: ECA-CDS 00000950:00:0

Activity ID  Orbit E2  Target L  Inst N  OAPEL 4GAIN   SeqNo 01  Multi -
Title        NIMS 4 Gain State Calibration
Requestor    J. HUI                                  Working Group
Bottom Label                     Plot Key  NIMS      Science Team   NIMS

Time System  CDS       Load ID  EE11    Calendar Date    /  /    Week

Start        ECA-CDS 00000950:00:0   92-342/23:08:52   ECA-000/16:00:33
End          ECA-CDS 00000940:00:0   92-342/23:18:59   ECA-000/15:50:26
Duration             00000010:00:0      000/00:10:07       000/00:10:07

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

NIMS calibration of the the 4 different gain states in NIMS with the Moon as a calibrating target. Also the limb scan will help with the pointing calibration.

Design Detail

```
 CDS   320  POINTER Design Y  Frames     0.00  Exc      Alias
```

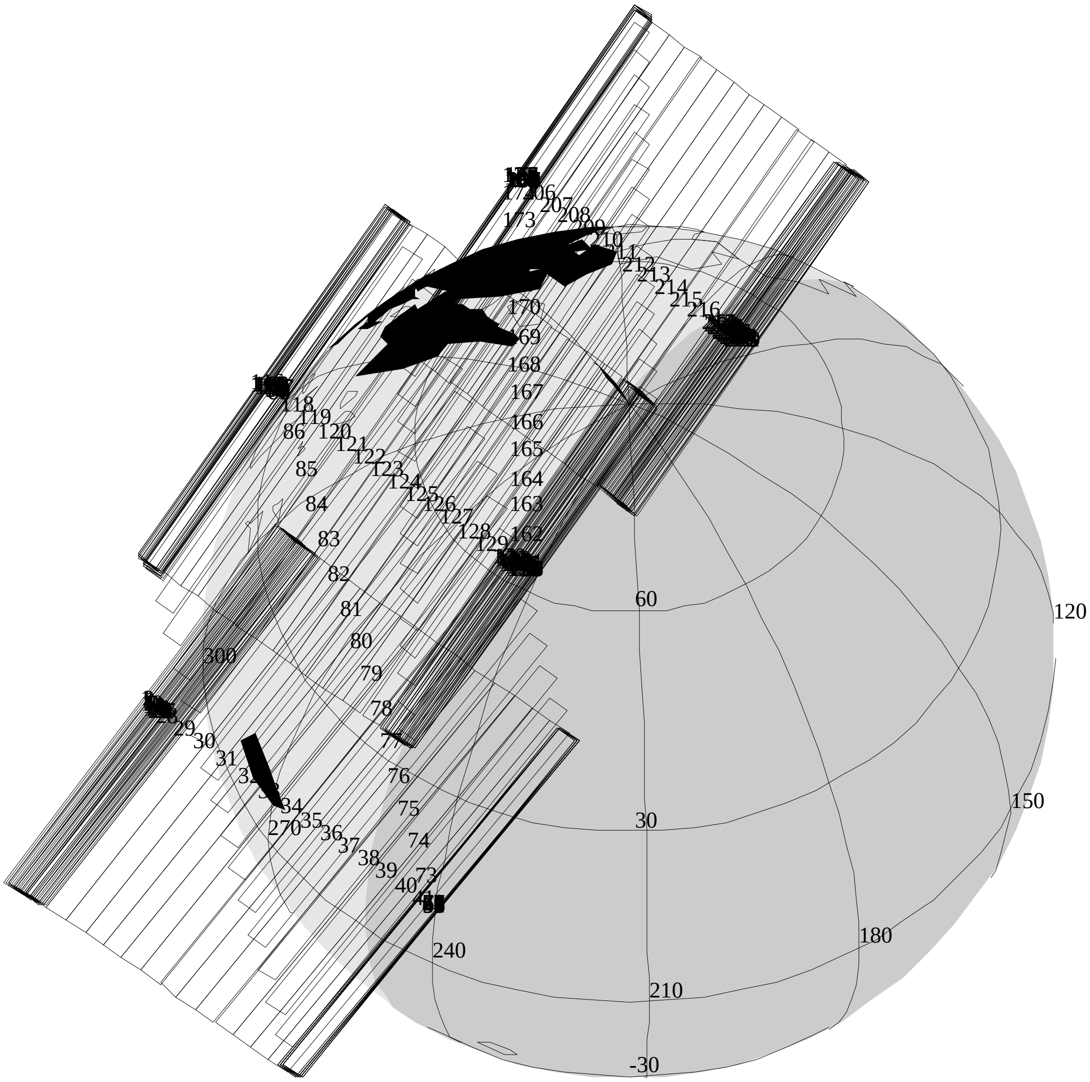
There are two parts to this observation. Cooperative images are required.

1) NIMS will point at one spot near the Moon’s Terminator and observe one Rim per NIMS gain state, all gain states, in Fixed Map mode (XM) for a total of 4 Rims.
2) NIMS will point at a bright limb that is parallel to the x-cone direction and slew in cone at 0.01 mrad/sec in Fixed Map mode (XM) over 3 Rims in gain state 1. The slew direction is from dark to moon.

Fixed Map (XM)
Gain States 4,3,2,1
Grating Start Position 6
Chopper Mode 63 Hz
SSI PICNOS: E2L0090 - E2L0101

```
Created on      02/24/92      Version     13                   |07/18/94
Last Changed    11/30/92      Changed By  C. BYRNE             |14:50:32
```

Galileo Activity Plan Form   rev 6/93



E2LNPHASE_02

POINTER C5.1

FILE:P.E2LSLUNMOS02

CENTRAL BODY: MOON

MINI:m.E2LSLUNMOS02

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

PERIAPSIS:92-343/15:10:23

START:92-342/23:24:01.466

ACTIVITY:E2LSLUNMOS02 **DESCRIP:SSI PHASE ANGLE CVG/PHOTOMETRIC**

NIMS LUNAR POLAR AND PHASE COVERAGE   ACTIVITY ID: E2LNPHASE 02*
2 OF 11   START TIME: ECA-CDS 00000939:00:0

Activity ID	Orbit E2	Target L	Inst N	OAPEL PHASE	SeqNo 02	Multi *
Title	NIMS Lunar Polar and Phase Coverage					
Requestor	J. HUI				Working Group	
Bottom Label			Plot Key	NIMS	Science Team	NIMS

Time System CDS   Load ID EE11   Calendar Date / /   Week

Start	ECA-CDS 00000939:00:0	92-342/23:19:59	ECA-000/15:49:26
End	ECA-CDS 00000881:00:0	92-343/00:18:38	ECA-000/14:50:47
Duration	00000058:00:0	000/00:58:39	000/00:58:39

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

Lunar polar observation and phase coverage for part of the phase curve; phase range from 117.7 degrees to 111.22 degrees.

Design Detail

CDS 0 POINTER Design Y Frames 0.00 Exc   Alias E2LSLUNMOS02

The mosaic will cover the illuminated side of the Moon with three swaths, scanning at 0.03 mrad/sec (Double Nyquist slew rate for proper registration).

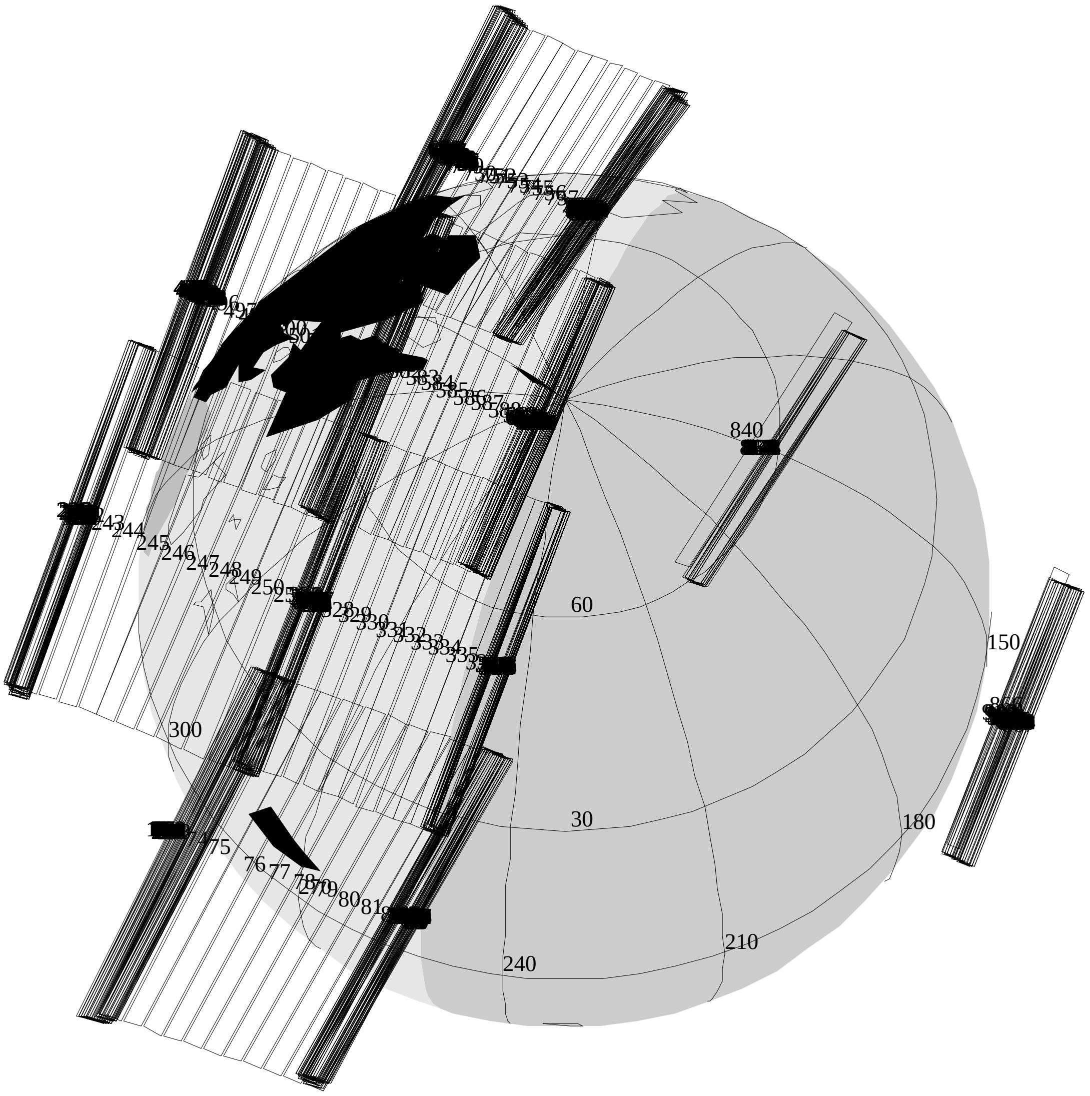
Full Map (FM) 204 wavelengths
Gain State 1
Grating Start Position 0
Chopper Mode 63 Hz

Mosaic: Three swaths, limb to terminator, Z scan, starting near the lower left side of the pointer plot. The mosaic is very similar to the mosaic in E2LNPHASE01.

SSI PICNOS: E2L0100 - E2L0201

Created on	02/24/92	Version	19	07/18/94
Last Changed	11/30/92	Changed By	C. BYRNE	14:50:36

Galileo Activity Plan Form   rev 6/93



E2LNPHASE_03

POINTER C5.1

FILE:P.E2LSLUNMOS03

CENTRAL BODY: MOON

MINI:m.E2LSLUNMOS03

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

PERIAPSIS:92-343/15:10:23

START:92-343/00:20:38.800

ACTIVITY:E2LSLUNMOS03 **DESCRIP:SSI PHASE ANGLE CVG/PHOTOMETRIC**

```
NIMS LUNAR POLAR AND PHASE COVERAGE    ACTIVITY ID: E2LNPHASE 03*
3 OF 11                                 START TIME: ECA-CDS 00000880:00:0
```

```
Activity ID  Orbit E2  Target L  Inst N  OAPEL PHASE   SeqNo 03  Multi *
Title        NIMS Lunar Polar and Phase Coverage
Requestor    J. HUI                                   Working Group
Bottom Label                     Plot Key  NIMS     Science Team   NIMS
```

```
Time System  CDS       Load ID  EE11    Calendar Date    /  /    Week

Start        ECA-CDS 00000880:00:0   92-343/00:19:39   ECA-000/14:49:46
End          ECA-CDS 00000739:00:0   92-343/02:42:13   ECA-000/12:27:12
Duration             00000141:00:0      000/02:22:34      000/02:22:34
```

```
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  T      PWS  F      EUV F     EPD F     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

Lunar polar observation and phase coverage as part of the phase curve; the phase angle ranges from 111 to 85 degrees.

Design Detail

```
 CDS    14  POINTER Design Y  Frames     0.00  Exc      Alias  E2LSLUNMOS03
```

The mosaic will cover the illuminated side of the Moon with four swaths, scanning at 0.06 mrad/sec (Double Nyquist slew rate for proper registration).

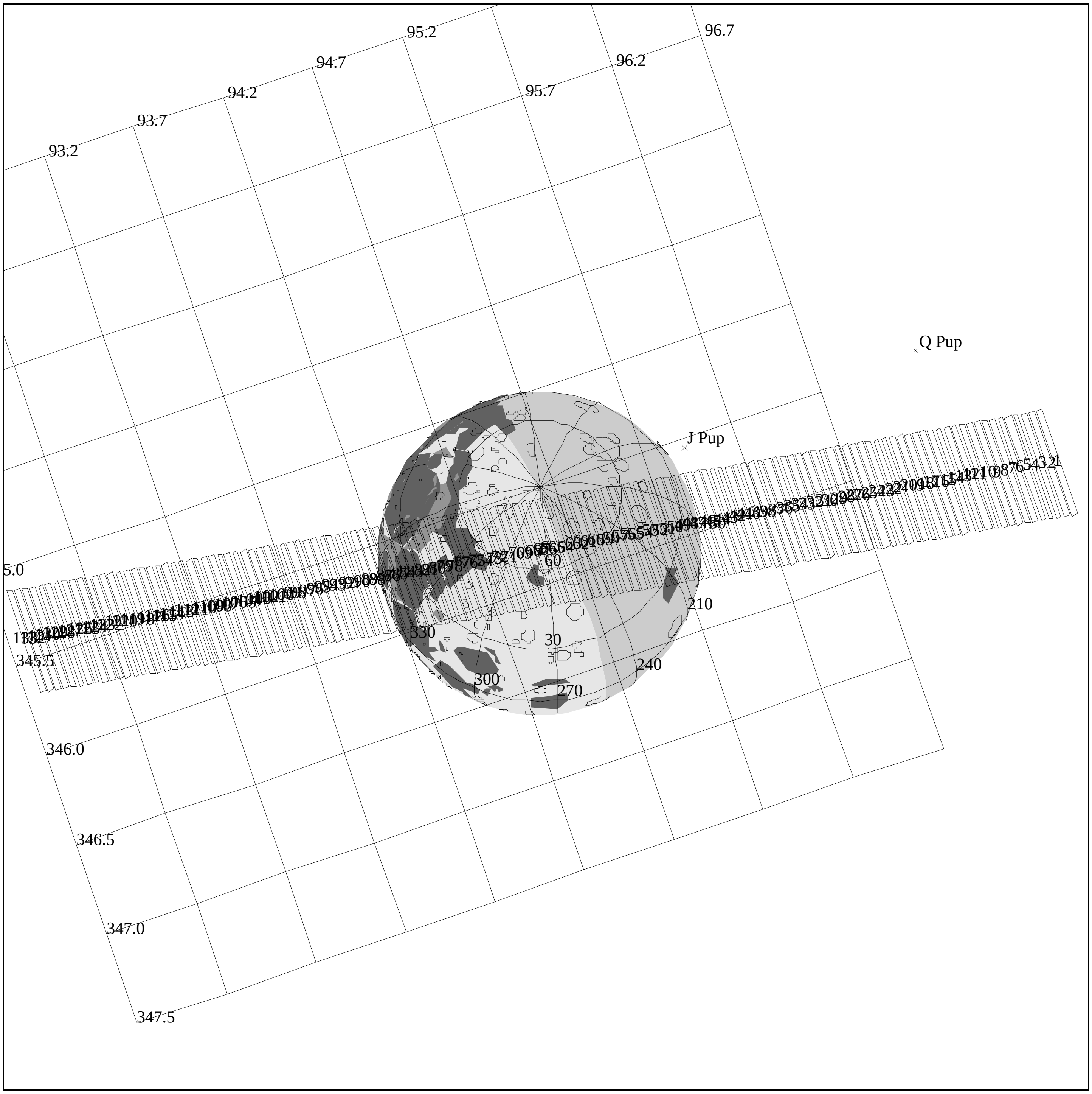
Short Map (SM) 102 wavelengths
Gain State 1
Grating Start Position 2
Chopper Mode 63 Hz

Mosaic: Four swaths, limb to terminator, Z scan, starting near the lower left side of the pointer plot. This mosaic is very similar to the mosaic in E2LNPHASE01 but with an extra swath.

SSI PICNOS: E2L0210 - E2L0345

```
Created on      02/24/92      Version     24                         |07/18/94
Last Changed    11/30/92      Changed By  C. BYRNE                   |14:50:40
```

Galileo Activity Plan Form   rev 6/93



E2LNPHASE_04

POINTER C5.1

FILE:P.E2LULNRLMB01

CENTRAL BODY: MOON

MINI:m.E2LULNRLMB01

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

PERIAPSIS:92-343/15:10:23

START:92-343/02:47:15.466

ACTIVITY:E2LULNRLMB01 **DESCRIP:TARGET FOR UVS LNRLMB**

NIMS LUNAR POLAR AND PHASE COVERAGE   ACTIVITY ID: E2LNPHASE 04*
4 OF 11   START TIME: ECA-CDS 00000735:00:0

Activity ID Orbit E2 Target L Inst N OAPEL PHASE   SeqNo 04 Multi *
Title   NIMS Lunar Polar and Phase Coverage
Requestor   J. HUI   Working Group
Bottom Label   Plot Key NIMS   Science Team   NIMS

Time System CDS   Load ID EE11   Calendar Date   / /   Week

Start   ECA-CDS 00000735:00:0   92-343/02:46:15   ECA-000/12:23:10
End   ECA-CDS 00000712:00:0   92-343/03:09:31   ECA-000/11:59:54
Duration   00000023:00:0   000/00:23:16   000/00:23:16

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 T
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

This is a ride along with the UVS limb DRIFT observation. NIMS will do the HNDARK calibration for each of the modes used on all the Lunar observations.

NIMS Lunar polar observation and phase coverage for part of the phase curve; the phase angle ranges from 84.5 to 78.7 degrees.

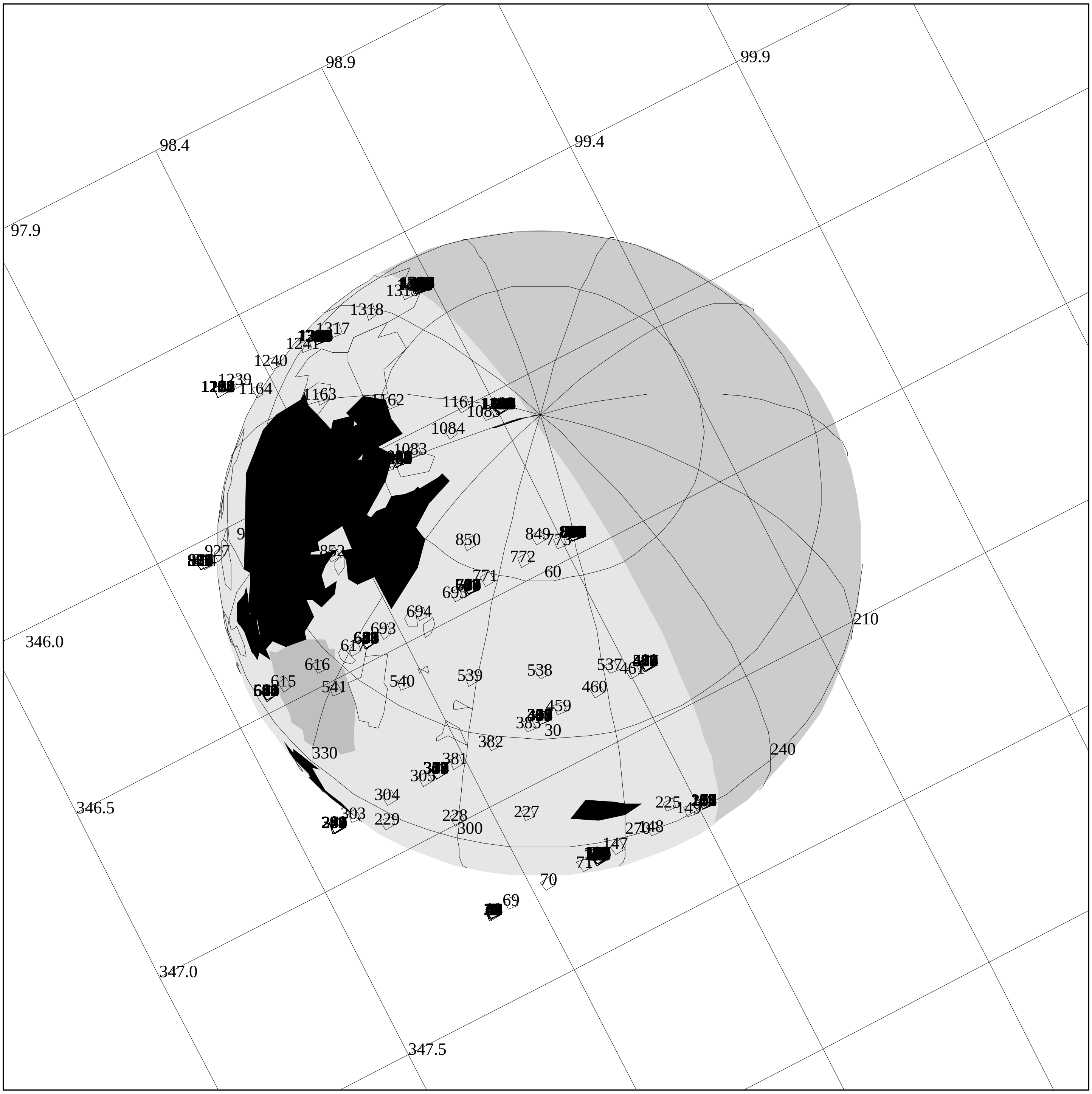
Design Detail

CDS   42 POINTER Design Y Frames   0.00 Exc   Alias E2LULNRLMB01

This observation drifts across the moon without a CSMOS with a single swath covering the North Pole as well as both dark and bright limbs. The drift rate of 0.074 mrad/sec requires NIMS to be in Fixed Map mode (XM) for proper registration. Dark values are also acquired for all modes used in lunar observations: Short Map (SM), Full Map (FM), Fixed Map (XM) and Fixed Spectrometer (XS)
Fixed Map (XM) (Actually on the Moon)
Gain State 1
Grating Start Position 6
Chopper Mode 63 Hz
Mosaic: A single swath drifts across the northern hemisphere of the moon from darkside limb to dayside limb. Dark acquired before the drift start.
SSI PICNOS: E2L0340 - E2L0355

Created on   02/24/92   Version   25 |07/18/94
Last Changed   11/30/92   Changed By C. BYRNE |14:50:44

Galileo Activity Plan Form   rev 6/93



E2LNPHASE_05

POINTER C5.1

FILE:P.E2LSLUNMOS04

CENTRAL BODY: MOON

MINI:m.E2LSLUNMOS04

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

PERIAPSIS:92-343/15:10:23

START:92-343/03:12:32.133

ACTIVITY:E2LSLUNMOS04 **DESCRIP:SSI HIGHEST PRIORITY-6 COLOR LUN**