DETAILED OBSERVATION DESIGNS

EE9

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.

NIMS POWER ON

ACTIVITY ID: E2NNNIMSON01-
START TIME: ECA-CDS 00021372:00:0

Activity ID Orbit E2 Target N Inst N OAPEL NIMSON SeqNo 01 Multi -
Title NIMS POWER ON
Requestor R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE9 Calendar Date / / Week

Start	ECA-CDS 00021372:00:0	92-328/14:59:57	ECA-015/00:09:28
End	ECA-CDS 00021362:00:0	92-328/15:10:04	ECA-014/23:59:21
Duration	00000010:00:0	000/00:10:07	000/00:10:07

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 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

To power NIMS instrument on.

Design Detail

CDS 67 POINTER Design N Frames 0.00 Exc Alias

Library sequence.

Created on 02/24/92 Version 11 |07/18/94
Last Changed 10/02/92 Changed By R. LOPES |14:52:21

Galileo Activity Plan Form rev 6/93

ACTIVITY ID: E2NNQUICAL01*
START TIME: ECA-CDS 00018464:26:0

Activity ID Orbit E2 Target N Inst N OAPEL QUICAL SeqNo 01 Multi *
Title NIMS Quiet Test
Requestor J. HUI Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System UTC Load ID EE09 Calendar Date / / Week

Start	ECA-CDS 00018464:26:0	92-330/16:00:00	ECA-012/23:09:25
End	ECA-CDS 00018315:85:0	92-330/18:30:00	ECA-012/20:39:25
Duration	00000148:32:0	000/02:30:00	000/02:30:00

Inertial SP N Earth Ref N Spin Stat A 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 T	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

NIMS will listen for noise from the UVS grating motor.

Design Detail

CDS 14 POINTER Design N Frames 0.00 Exc Alias E2NWPWUMA001

NIMS is riding along with the PWS/UVS interference calibration. NIMS is in Safe Mode to listen for noise. NIMS does not require scan platform motion; all NIMS needs 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.

Created on 02/25/92 Version 19 |07/18/94
Last Changed 11/30/92 Changed By C. BYRNE |14:49:40

Galileo Activity Plan Form rev 6/93

NIMS FULL PHOTOMETRIC CALIBRATION   ACTIVITY ID: E2NNPCT   01-
START TIME: ECA-CDS 00018306:00:0

Activity ID Orbit E2 Target N Inst N OAPEL PCT   SeqNo 01 Multi -
Title   NIMS Full Photometric Calibration
Requestor   R. LOPES   Working Group
Bottom Label   Plot Key NIMS   Science Team   NIMS

Time System CDS   Load ID EE9   Calendar Date   / /   Week

Start	ECA-CDS 00018306:00:0	92-330/18:40:01	ECA-012/20:29:24
End	ECA-CDS 00018089:00:0	92-330/22:19:26	ECA-012/16:49:59
Duration	00000217:00:0	000/03:39:25	000/03:39:25

Inertial   SP Y Earth Ref N Spin Stat A 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

To observe the PCT with NIMS to check flatness of field, contamination on the PCT, and consistency of gain states.

Design Detail

CDS   872 POINTER Design N Frames   0.00 Exc   Alias

Observe PCT in Long Spectrometer mode (gain states 1 through 4), Long Map (gain state 4), Full Map (gain state 4), Short Map (gain state 4), Fixed Map (gain state 4) and Band Edge (gain state 4).

Observe target center.
Move to dark sky to get dark level and to avoid overheating instrument.

Notes:
- the PCT must be observed in the Single Spin (ALLSPIN) state.
- the PCT heater must be off for 6 hours before calibration begins.
- pointing constraint (< 5.5 deg off Sun) can be relaxed to < 6 deg.

Created on   02/05/92   Version   13 |07/18/94
Last Changed   08/21/92   Changed By R. LOPES |14:52:25

Galileo Activity Plan Form   rev 6/93

PUT NIMS IN SAFE MODE   ACTIVITY ID: E2NNSAFE 01-
START TIME: ECA-CDS 00018088:00:0

Activity ID Orbit E2 Target N Inst N OAPEL SAFE   SeqNo 01 Multi -
Title   Put NIMS in Safe Mode
Requestor   J. HUI   Working Group
Bottom Label   Plot Key NIMS   Science Team   NIMS

Time System CDS   Load ID EE09   Calendar Date   / /   Week

Start	ECA-CDS 00018088:00:0	92-330/22:20:27	ECA-012/16:48:58
End	ECA-CDS 00010909:00:0	92-335/23:19:13	ECA-007/15:50:12
Duration	00007179:00:0	005/00:58:46	005/00:58:46

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 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

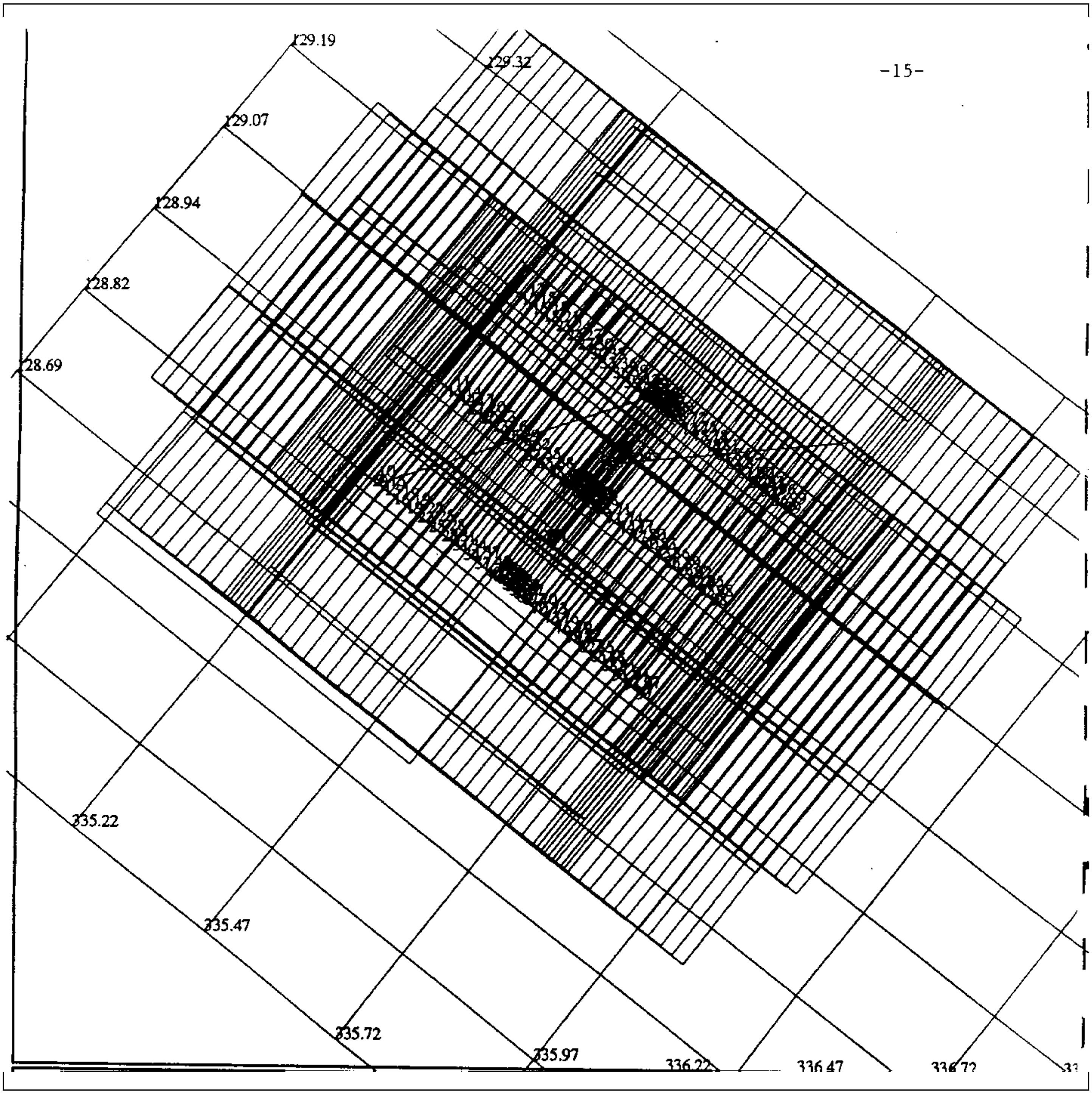
To put NIMS in SAFE mode for a long duration where NIMS is not doing anything.

Design Detail

CDS   14 POINTER Design N Frames   0.00 Exc   Alias

Created on	08/28/92	Version	2	07/18/94
Last Changed	08/28/92	Changed By	J. HUI	14:49:44

Galileo Activity Plan Form   rev 6/93



E2HNSTARFL01

POINTER C5.1

FILE:P.E2HPTSTARS02

CENTRAL BODY: EARTH

MINI:m.E2HPTSTARS02

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

PERIAPSIS:92-343/15:10:23

START:EFT 92-343/15:09:25.000 -CDS 10910:00:0

ACTIVITY:E2HPTSTARS02 **DESCRIP:TARGET FOR TSTARS**

TSTAR AND FLOOD MODE OBSERVATION ACTIVITY ID: E2HNSTARFL01*
START TIME: ECA-CDS 00010908:00:0

Activity ID Orbit E2 Target H Inst N OAPEL STARFL SeqNo 01 Multi *
Title Tstar and Flood Mode observation
Requestor J. HUI Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE09 Calendar Date / / Week

Start	ECA-CDS 00010908:00:0	92-335/23:20:13	ECA-007/15:49:12
End	ECA-CDS 00010810:00:0	92-336/00:59:19	ECA-007/14:10:06
Duration	00000098:00:0	000/01:39:06	000/01:39:06

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 T
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

A joint star calibration of Sirius (RA/DEC = 100.73/ -16.66) between the remote science instruments. The flood mode will also be used to get high rate AACS date for pointing calibration. This also serves as a boresight calibration. Flood mode AACS data consists of 6 parameters of AACS data telemetered every RTI instead of the normal once per MF. The AACS flood mode data are acquired through CDS MROs (Memory ReadOuts).

Design Detail

CDS 28 POINTER Design Y Frames 0.00 Exc Alias E2HPSTARS02

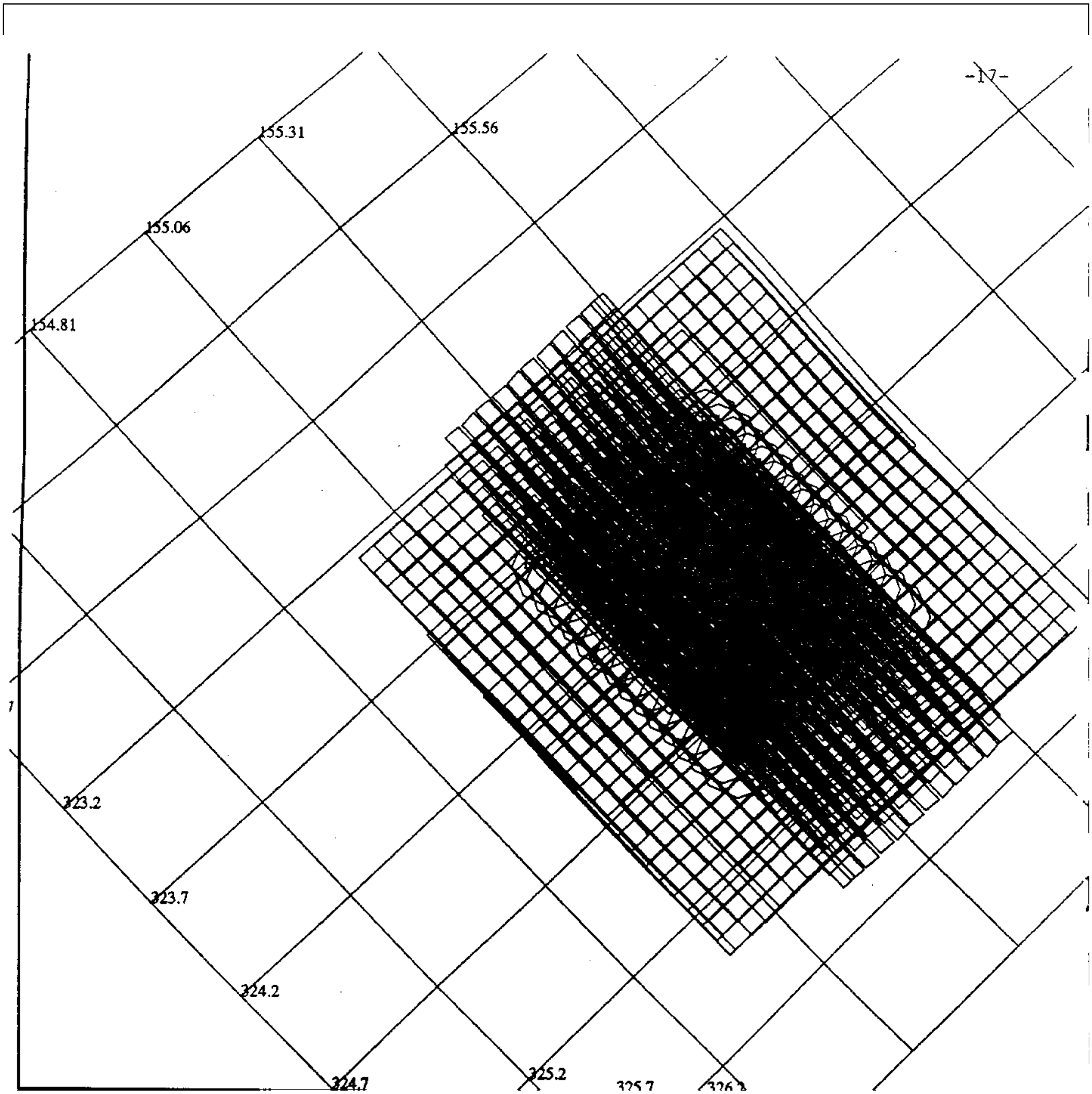
(L. Tamppari)

The design of the TSTARS observation is similar to the Earth 1 design, except that the pointing error will be 1.9 mrad in cone and 1.7 mrad in clock and only the length of the NIMS slit will be covered in the cross-cone direction. The mosaic will be 32 swaths long. Two swaths will be at a rate of .02 mrad/s and will cover the NIMS slit plus pointing error. Thirty swaths will be at a rate of 0.04 mrad/s and will cover the width of the PPR FOV plus .2 mrad on either side of the FOV and a total of 3.8 mrad possible pointing error in the cone direction. The first 10 swaths will step down by .3 mrad, the next 10 at .1 mrad and the last 11 at .3 mrad. The ~40 sec of flood mode data will be taken during the time of highest probability of acquiring the star in the instruments' FOV. We will have cooperative imaging in the LOW mode.

Fixed Map (XM), Gain State 4, Grating Start Pos 6, Chopper Reference

Created on 08/28/92 Version 5 |07/18/94
Last Changed 11/30/92 Changed By C. BYRNE |14:49:48

Galileo Activity Plan Form rev 6/93



E2HNNSTAR_01

POINTER C5.1

FILE:P.E2HNNSTAR_01

CENTRAL BODY: EARTH

MINI:m.E2HNNSTAR_01

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

PERIAPSIS:92-343/15:10:23

START:EFT 92-343/15:09:25.000 -CDS 10805:00:0

ACTIVITY:E2HNNSTAR_01 **DESCRIP:TARGET TO BETELGEUSE ORI**

NIMS STAR CALIBRATION   ACTIVITY ID: E2HNNSTAR 01*
START TIME: ECA-CDS 00010809:00:0

Activity ID Orbit E2 Target H Inst N OAPEL NSTAR   SeqNo 01 Multi *
Title   NIMS Star Calibration
Requestor   J. HUI   Working Group
Bottom Label   Plot Key NIMS   Science Team   NIMS

Time System CDS   Load ID EE09   Calendar Date   / /   Week

Start   ECA-CDS 00010809:00:0   92-336/01:00:19   ECA-007/14:09:06
End   ECA-CDS 00010719:00:0   92-336/02:31:19   ECA-007/12:38:06
Duration   00000090:00:0   000/01:31:00   000/01:31:00

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 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 spectral and spatial calibration.

Design Detail

CDS   183 POINTER Design Y Frames   0.00 Exc   Alias

NIMS will have 14 swaths covering the star Betelgeuse Ori (RA = 88.1, Dec = 7.4). Each swath will be separated by 0.7 mrad in x-cone direction. NIMS will be in Fixed Map (XM) slewing at a rate of 0.02 mrad/sec for proper registration of data. PPR will be riding along in this observation. This observation takes place within the cone pole region (cone> 150 degrees).

Fixed Map (XM)
Gain State 4
Grating Start Position 6
Chopper Mode Reference

NIMS will require cooperative images; at least one in the middle of each swath.

Created on   02/24/92   Version   16 |07/18/94
Last Changed   11/30/92   Changed By C. BYRNE |14:49:52

Galileo Activity Plan Form   rev 6/93

NIMS MEMORY READOUT — ACTIVITY ID: E2NNMRO 01-
START TIME: ECA-CDS 00010716:00:0

Activity ID Orbit E2 Target N Inst N OAPEL MRO SeqNo 01 Multi -
Title NIMS Memory Readout
Requestor R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE9 Calendar Date / / Week

Start	ECA-CDS 00010716:00:0	92-336/02:34:21	ECA-007/12:35:04
End	ECA-CDS 00010712:00:0	92-336/02:38:24	ECA-007/12:31:01
Duration	00000004:00:0	000/00:04:03	000/00:04:03

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 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

To verify that NIMS on-board software (3 K bytes) agrees with NIMS ground memory map.

Design Detail

CDS 34 POINTER Design N Frames 0.00 Exc Alias

This activity can be done in either Dual or Allspin mode.

Created on 02/05/92 Version 9 |07/18/94
Last Changed 10/02/92 Changed By R. LOPES |14:52:29

Galileo Activity Plan Form rev 6/93

```
NIMS RCT TURN ON                                       ACTIVITY ID: E2NNRCTON 01-
                                                        START TIME: ECA-CDS 00009877:00:0

Activity ID   Orbit E2  Target N  Inst N  OAPEL RCTON   SeqNo 01  Multi -
Title         NIMS RCT Turn On
Requestor     J. HUI                                     Working Group
Bottom Label                        Plot Key  NIMS       Science Team   NIMS

Time System   CDS       Load ID  EE09    Calendar Date    /  /    Week

Start         ECA-CDS 00009877:00:0   92-336/16:42:41   ECA-006/22:26:44
End           ECA-CDS 00009491:00:0   92-336/23:12:58   ECA-006/15:56:27
Duration              00000386:00:0      000/06:30:17       000/06:30:17

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

Turn on the RCT heater for the NIMS RCT calibration.

Design Detail

```
 CDS    20  POINTER Design N  Frames     0.00  Exc      Alias
```

FR requires turning on the NIMS RCT heater 6.5 hours before the NIMS RCT calibration. NIMS boresight must be greater than 109 degrees cone. RCT is to be turned off after the last RCT observation by NIMS.

```
Created on      02/24/92      Version     10                        |07/18/94
Last Changed    08/28/92      Changed By  J. HUI                    |14:49:56
```

Galileo Activity Plan Form   rev 6/93

Activity ID Orbit E2 Target N Inst N OAPEL QUICAL SeqNo 02 Multi *
Title NIMS Quiet Test
Requestor J. HUI Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE09 Calendar Date / / Week

Start	ECA-CDS 00009595:00:0	92-336/21:27:49	ECA-006/17:41:36
End	ECA-CDS 00009495:00:0	92-336/23:08:55	ECA-006/16:00:30
Duration	00000100:00:0	000/01:41:06	000/01:41:06

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 T	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 will listen for noise from the MAG inboard flipper and its internal calibration coils.

Design Detail

CDS 0 POINTER Design N Frames 0.00 Exc Alias E2NMINTCAL04

NIMS is riding along with the MAP interference calibration to listen for noise. NIMS will be in Safe Mode to listen for noise which does not require any scan platform motion; all NIMS needs 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.

Created on 02/25/92 Version 19 |07/18/94
Last Changed 11/11/92 Changed By J. HUI |14:50:00

Galileo Activity Plan Form rev 6/93

NIMS RCT CALIBRATION — ACTIVITY ID: E2NNRCTCAL01-
START TIME: ECA-CDS 00009490:00:0

Activity ID Orbit E2 Target N Inst N OAPEL RCTCAL SeqNo 01 Multi -
Title NIMS RCT Calibration
Requestor J. HUI Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE09 Calendar Date / / Week

Start	ECA-CDS 00009490:00:0	92-336/23:13:59	ECA-006/15:55:26
End	ECA-CDS 00009223:00:0	92-337/03:43:57	ECA-006/11:25:28
Duration	00000267:00:0	000/04:29:58	000/04:29:58

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

Calibrate NIMS performance in the long wavelength region and relate NIMS data (in DN) to radiance for all modes and gain states.

Design Detail

CDS 1163 POINTER Design N Frames 0.00 Exc Alias

The calibration will start after the RCT has been on for at least 6.5 hours. Dark sky (greater than 100 degrees cone) will be observed first, executing all 22 NIMS states that will be used in the NIMS RCT calibration. NIMS can only observe the RCT for a maximum of 6 Rims at a time. Within the 6 Rims, NIMS will execute 3 states, 2 Rims for each. After the 6 Rims, NIMS will slew away to a cone angle greater than 100 degrees (dark sky) and cool down for 12 Rims. This observing cycle continues until all 22 states have been calibrated. After all 22 states have been calibrated, NIMS will map the RCT from 30 degrees to 0 degrees cone for edge and heating effects. At the end NIMS will slew to a safe-unstow position at 153 degrees cone. The slew rate for going between dark sky and RCT can be done at 14 mrad/sec; the slew rate for mapping the RCT in Fixed Map will be at 0.15 mrad/sec (Nyquist rate).

Created on 02/24/92 Version 7 |07/18/94
Last Changed 08/28/92 Changed By J. HUI |14:50:04

Galileo Activity Plan Form rev 6/93

NIMS MEMORY LOAD   ACTIVITY ID: E2NNLOAD 01-
START TIME: ECA-CDS 00009131:00:0

Activity ID Orbit E2 Target N Inst N OAPEL LOAD   SeqNo 01 Multi -
Title   NIMS Memory Load
Requestor   R. LOPES   Working Group
Bottom Label   Plot Key NIMS   Science Team   NIMS

Time System CDS   Load ID EE9   Calendar Date   / /   Week

Start	ECA-CDS 00009131:00:0	92-337/05:16:58	ECA-006/09:52:27
End	ECA-CDS 00009129:00:0	92-337/05:18:59	ECA-006/09:50:26
Duration	00000002:00:0	000/00:02:01	000/00:02:01

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 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

Load software for EE11 mirror scan calibration.

Design Detail

CDS   425 POINTER Design N Frames   0.00 Exc   Alias

Mirror scan calibration will require reprogramming NIMS. Largest byte cost of the whole calibration will come from this activity, loading a new program into NIMS.

Created on	02/05/92	Version	15	07/18/94
Last Changed	10/23/92	Changed By	R. LOPES	14:52:33

Galileo Activity Plan Form   rev 6/93

ACTIVITY ID: E2NNQUICAL03*
START TIME: ECA-CDS 00008446:00:0

Activity ID Orbit E2 Target N Inst N OAPEL QUICAL SeqNo 03 Multi *
Title NIMS Quiet Test
Requestor J. HUI Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE09 Calendar Date / / Week

Start	ECA-CDS 00008446:00:0	92-337/16:49:35	ECA-005/22:19:50
End	ECA-CDS 00008420:00:0	92-337/17:15:52	ECA-005/21:53:33
Duration	00000026:00:0	000/00:26:17	000/00:26:17

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 T	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 will listen for noise from the MAG outboard flipper.

Design Detail

CDS 0 POINTER Design N Frames 0.00 Exc Alias E2NMINTCAL07

NIMS is riding along with the MAP interference calibration to listen for noise. NIMS will be in Safe Mode. All NIMS needs 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.

Created on 02/25/92 Version 16 |07/18/94
Last Changed 11/11/92 Changed By J. HUI |14:50:08

Galileo Activity Plan Form rev 6/93

NIMS QUIET TEST   ACTIVITY ID: E2NNQUICAL04*
4 OF 7   START TIME: ECA-CDS 00007189:00:0

Activity ID Orbit E2 Target N Inst N OAPEL QUICAL SeqNo 04 Multi *
Title   NIMS Quiet Test
Requestor   J. HUI   Working Group
Bottom Label   Plot Key NIMS   Science Team   NIMS

Time System CDS   Load ID EE09   Calendar Date   / /   Week

Start   ECA-CDS 00007189:00:0   92-338/14:00:33   ECA-005/01:08:52
End   ECA-CDS 00007075:00:0   92-338/15:55:49   ECA-004/23:13:36
Duration   00000114:00:0   000/01:55:16   000/01:55:16

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 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 will listen for noise from the SSI filter wheel.

Design Detail

CDS   0 POINTER Design N Frames   0.00 Exc   Alias E2HSSTRCAL01, 02,03,04,05,06

NIMS is riding along with the SSI star calibration. NIMS will be in Safe Mode for listening to noise. All NIMS needs 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.

Created on   02/25/92   Version   18   07/18/94
Last Changed   11/11/92   Changed By J. HUI   14:50:12

Galileo Activity Plan Form   rev 6/93

NIMS QUIET TEST ACTIVITY ID: E2NNQUICAL05*
5 OF 7 START TIME: ECA-CDS 00007071:00:0

Activity ID Orbit E2 Target N Inst N OAPEL QUICAL SeqNo 05 Multi *
Title NIMS Quiet Test
Requestor J. HUI Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE09 Calendar Date / / Week

Start	ECA-CDS 00007071:00:0	92-338/15:59:51	ECA-004/23:09:34
End	ECA-CDS 00006808:00:0	92-338/20:25:47	ECA-004/18:43:38
Duration	00000263:00:0	000/04:25:56	000/04:25:56

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 T	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

NIMS will listen for noise from the DDS high voltage setting 4.

Design Detail

CDS 0 POINTER Design N Frames 0.00 Exc Alias E2NDNOISE04

NIMS is riding along with the DDS high voltage change calibrations. NIMS will be in Safe Mode for listening to noise. 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.

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Last Changed	11/11/92	Changed By	J. HUI	14:50:16

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NIMS BOOM MAP 1                        ACTIVITY ID: E2NNBOOM  01*
                                        START TIME: ECA-CDS 00006823:00:0

Activity ID  Orbit E2  Target N  Inst N  OAPEL BOOM    SeqNo 01  Multi *
Title        NIMS BOOM MAP 1
Requestor    C.Polanski/R. LOPES                     Working Group
Bottom Label                    Plot Key  NIMS       Science Team   NIMS

Time System  CDS       Load ID  EE09    Calendar Date    /  /    Week

Start        ECA-CDS 00006823:00:0   92-338/20:10:37   ECA-004/18:58:48
End          ECA-CDS 00006284:00:0   92-339/05:15:36   ECA-004/09:53:49
Duration             00000539:00:0      000/09:04:59       000/09:04:59

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 T     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

To observe spacecraft boom area from cone angle 120 degrees to cone angle 90 degrees.

Design Detail

```
 CDS     0  POINTER Design N  Frames     0.00  Exc      Alias  E2NMMAGSP_03

Ridealong with NMMAGSP03.

MODE: XM, GAIN STATE 1, GRATING START 0, CHOPPER REF

1644534  120 to 90 degrees cone @ 0.07
1645231   90 to 45 degrees cone @ 0.07
1645681   45 to 15 degrees cone @ 0.07
1645800   Cruise Mode
1645987   Safe Mode

Created on      10/23/92      Version     2                        |07/18/94
Last Changed    10/23/92      Changed By  R. LOPES                 |14:52:37

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NIMS BOOM MAP 2 — ACTIVITY ID: E2NNBOOM 02*
START TIME: ECA-CDS 00005735:00:0

Activity ID Orbit E2 Target N Inst N OAPEL BOOM SeqNo 02 Multi *
Title NIMS BOOM MAP 2
Requestor C.Polanski/R. LOPES Working Group
Bottom Label Plot Key NIMS Science Team NIMS

Time System CDS Load ID EE09 Calendar Date / / Week

Start	ECA-CDS 00005735:00:0	92-339/14:30:42	ECA-004/00:38:43
End	ECA-CDS 00004963:00:0	92-340/03:31:17	ECA-003/11:38:08
Duration	00000772:00:0	000/13:00:35	000/13:00:35

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 T	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

To observe spacecraft boom area from cone angle 90 degrees to cone angle 45 degrees.

Design Detail

CDS 0 POINTER Design N Frames 0.00 Exc Alias E2NMMAGSP_04

Ridealong with NMMAGSP04.

See E2NNBOOM__01 for details.

Created on 10/23/92 Version 4 |07/18/94
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