Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

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

In the IFL, only calibrations are performed so that there are no Pointer Plots.

```
NIMS OPCAL                                ACTIVITY ID:   IFLNIMSOCAL1-
                                           START TIME:   96-145/17:00:14.800
```

```
Activity ID: Orbit IF  Target L  Inst N  OAPEL IMSOCA  SeqNo L1 -

Title        NIMS OPCAL                                Instrument      NIMS
Requestor    NIMS-CWG/F. Leader        Team   NIMS  Working Group   CWG
```

```
Time System  UTC       Load ID  IFL     Calendar Date  05/24/96  Week  21

Start        OC1-CDS    0:00:0    96-145/17:00:14.400   OC1-000/00:00:00.000
End          OC1-CDS   11:05:0    96-145/17:11:25.466   OC1-000/00:11:25.466
Duration               11:05:0       000/00:11:11.066       000/00:11:11.006
```

```
Top Label    IFLNIMSOCAL1-
Bottom Label NIMS initialization

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

Observation Objective

To perform Optical Calibrations of the NIMS instrument.

This is the first in-flight test of the NIMS Phase 2 software and Phase 2 CDS real-time capabilities.

Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select miror positions 8-11)
ETB selects Detectors 1 and 2 only

1) 1 Rim of OPCAL (mf 0-11 only).
2) 1 Rim of Dark (mf 0-11 only).
3) 1 Rim of OPCAL (mf 0-11 only).
4) 1 Rim of Dark (mf 0-11 only).

NIMS is selected in Real Time for a total of 4 Rims.
Only one grating cycle per Rim is returned.

Long Map (LM), Gain 4, Grating Start 0, RT, OPCAL48

NIMS OPCAL	ACTIVITY ID: IFLNIMSOCAL2- START TIME: 96-148/15:59:02.666

Activity ID: Orbit IF Target L Inst N OAPEL IMSOCA SeqNo L2 -

Title	NIMS OPCAL			Instrument	NIMS
Requestor	NIMS-CWG/F. Leader	Team	NIMS	Working Group	CWG

Time System	UTC	Load ID	IFL	Calendar Date	05/27/96	Week	22

Start	OC2-CDS	0:00:0	96-148/15:59:02.666	OC1-000/00:00:00.000
End	OC2-CDS	6:05:0	96-148/16:05:10.006	OC1-000/00:06:07.340
Duration		6:05:0	000/00:06:07.340	000/00:06:07.340

Top Label   IFLNIMSOCAL2-
Bottom Label NIMS initialization

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

Observation Objective

To perform Optical Calibrations of the NIMS instrument.

This is the second in-flight test of the NIMS Phase 2 software and Phase 2 CDS real-time capabilities.

Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select miror positions 8-11)
ETB selects Detectors 1 and 2 only

1) 1 Rim of Dark (mf 0-12 only).
2) 1 Rim of OPCAL (mf 0-12 only).
3) 1 Rim of Dark (mf 0-12 only).
4) 1 Rim of OPCAL (mf 0-12 only).

NIMS is selected in Real Time for a total of 4 Rims.
Only one grating cycle per Rim is returned.

Long Map (LM), Gain 4, Grating Start 0, RT, OPCAL48

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NIMS OPCAL	ACTIVITY ID: IFLNIMSOCAL3-
	START TIME: 96-150/15:00:02.533

Activity ID: Orbit IF Target L Inst N OAPEL IMSOCA SeqNo L3 -

Title	NIMS OPCAL			Instrument	NIMS
Requestor	NIMS-CWG/F. Leader	Team	NIMS	Working Group	CWG

Time System	UTC	Load ID	IFL	Calendar Date	05/27/96	Week	22

Start	OC2-CDS	0:00:0	96-150/15:00:02.533	OC1-000/00:00:00.000
End	OC2-CDS	8:00:0	96-150/15:08:07.866	OC1-000/00:08:05.333
Duration		8:00:0	000/00:08:05.333	000/00:08:05.333

Top Label IFLNIMSOCAL3-
Bottom Label NIMS initialization

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

Observation Objective

To perform Optical Calibrations of the NIMS instrument.

This is the third in-flight test of the NIMS Phase 2 software and Phase 2 CDS real-time capabilities.

Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select miror positions 8-11)
ETB selects Detectors 1 and 2 only

1) 1 Rim of Dark (mf 0-11 only).
2) 1 Rim of OPCAL (mf 0-11 only).
3) 1 Rim of Dark (mf 0-11 only).
4) 1 Rim of OPCAL (mf 0-11 only).

NIMS is selected in Real Time for a total of 4 Rims.
Only one grating cycle per Rim is returned.

Long Map (LM), Gain 4, Grating Start 0, RT, OPCAL48

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