Chapter 1 - Introduction

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Introduction

From May 22, 1996 through June 01, 1996 the Galileo spacecraft will load and test the new Phase 2 CDS software. This time period is known as the In-Flight Load (IFL). NIMS will also reload its own Phase 2 software at this time. This handbook is provided to the NIMS Team as a guide to the IFL.

During this time period, NIMS will take advantage of the new Phase 2 capabilities of both NIMS and CDS to perform a series of Optical Calibrations (OPCALs) and return the data using the new real-time capabilities of the spacecraft. This series of OPCALs will give the NIMS Team an indication of how well the new Phase 2 software (both NIMS and CDS) is performing on the spacecraft. It will also give an indication of the health of the NIMS instrument as NIMS has not been used since the SL9 Encounter back in July of 1994, nearly two years ago.

The NIMS Phase 2 software has some new features, including wavelength editing and mirror blocking, which will be tested at this time. Wavelength editing will be used to select only detectors 1 and 2 for all Long Map grating positions. Mirror blocking will be used to select only mirror positions 8-11 (of 0-19). The data will then be returned using the new real-time capabilities of the spacecraft.

The new Galileo Ground Data System (GDS) and AMMOS will also be tested in preparation for Orbital Operations as well as the MIPS real time data processing. This will test the entire ground path from DSN Station to UDR to Tube.