PDS\_VERSION\_ID = PDS3

RECORD\_TYPE = STREAM

LABEL\_REVISION\_NOTE = "

2014-08-23 SwRI:BTCarcich

 Updated from comments in PDS peer review on 2014-08-19.

2016-06 SwRI:BTCarcich

 Updated from comments in PDS peer review in 2016-05

2017-02-15 SwRI:TFinley

 Updated contact info and comments from PDS peer review 2016-12-05

"

OBJECT = TEXT

 PUBLICATION\_DATE = 2016-10-31

 NOTE = "The NH REX Pluto encounter

 Raw VERSION 1.0

 Data Archive

 Be sure to read the Required Reading

 note below before using the data in

 this archive.

 "

END\_OBJECT = TEXT

END

The NH REX PLUTO Raw VERSION 1.0 Data Archive

========================================================================

Table of Contents

=================

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Introduction

============

 Extensive preparation is necessary to properly understand and interpret

 the data in this data set. Very little data set-specific detail is

 provided here; this file is only intended as a brief introduction to the

 volume structure of the files in this data set. Refer to the Required

 Reading section below for further guidance.

Science data content

--------------------

 This document is a volume structure overview of the New Horizons (NH)

 REX PLUTO Raw VERSION 1.0 Flight Data Archive.

 The New Horizons (NH) Radio Science Experiment (REX) instrument measures

radio signals and comprises two Elements. The primary investigation uses

radio signals from the NASA Deep Space Network (DSN; Ground Element) received

by REX (Flight Element) onboard the NH spacecraft; the direction of

transmission is exclusively uplink from Earth to REX. The analysis method

detects phase perturbations as the signal path moves through the atmosphere or

crosses the limb of a target body. Ancillary investigations are radiometry of

4cm-wavelength thermal emission using only the Flight Element, and of

gravitational parameters using round-trip Earth-spacecraft-Earth measurements

with tracking data from the NH Radio Science Subsystem (tracking data will be

archived in separate, non-REX data sets).

Boilerplate disclaimer

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 All NH Raw and Calibrated data sets were generated in similar fashion by

 an automated pipeline; as such, all of the information that follows is

 boilerplate common to all such NH data sets, with pointers to locations

 in this data set where more information can be found. Refer to the data

 set catalog (CATALOG/DATASET.CAT) and documentation (DOCUMENT/), as well

 as the Required Reading referred to below, plus the files pointed to, for

 information specific to the instrument and data of this data set.

Required Reading

================

 Almost all of the New Horizons instruments have complex modes of

 operation and complex, multi-part data products; users who want to

 properly understand these data should expect to spend a significant

 effort (at least a day per instrument) reading about and researching the

 instrument, the data and the PDS product formats. To support that, the

 data producer has provided a Required Reading list as a starting point

 directing the user to NH data set documentation; refer to the

 DOCUMENT/AAA\_GENERIC\_README/AAARINFO.TXT file for more detail.

Volume Format

=============

 This volume has been formatted according to the PDS Standards Reference

 3.8 version current as of the publication date of this data set.

File Formats

============

 All text documents and other meta information files such as

 descriptions, PDS object definitions and detached PDS labels are

 stream format files, with a carriage return (ASCII 13) and a line

 feed character (ASCII 10) at the end of the record. This allows

 the files to be read by most current operating systems.

 Data are provided in FITS format with detached PDS labels. See the

 DOCUMENT/AAA\_GENERIC\_README/ directory for a PDS label overview

 and pointers to suggested FITS and PDS software packages.

Volume Contents

===============

 Files on this volume are organized into a set of sub-directories

 below the top-level directory. The following table shows the general

 structure and content of these directories, but does not exhaustively

 list every file in each directory. See the \*INFO.TXT files in each

 top-level sub-directory for specific information about the files

 under that directory.

 In this table, directory names are surrounded by forward slashes (/),

 and the top-level of the volume is indicated by a single forward slash.

 Refer to the data set catalog (CATALOG/DATASET.CAT) and the directory

 DOCUMENT/AAA\_GENERIC\_README/ for a description of DATA/ sub-directory

 naming conventions, data filenames and product IDs

 / Top level of volume

 |

 +-- AAREADME.TXT The AAREADME file; a backup is in /DOCUMENT/

 |

 |--/CATALOG/ Directory containing PDS catalog objects.

 | |

 | +-- CATINFO.TXT Description of files in the CATALOG directory.

 | +-- \*.\* Catalog files

 |

 +--/DATA/ Top-level data directory

 | |

 | +--DATAINFO.TXT Description of /DATA/ sub-directory

 | +--/TNF/ Sub-directories of data with tracking files

 | | |

 | | +-- \*.LBL Data product PDS labels

 | | +-- \*.\* Tracking data products

 | |

 | +--/YYYYMMDD\_MET/ Sub-directories of /DATA/ containing data files

 | |

 | +-- \*.LBL Data product PDS labels

 | +-- \*.FIT Data product data files (FITS format)

 |

 +--/DOCUMENT/ Directory containing dataset-related documents.

 | |

 | +-- /AAA\_GENERIC\_README/ Sub-directory of pointers to more

 | | | information about NH data sets

 | | |

 | | +-- AAARINFO.TXT Description of files in this sub-directory

 | | +-- \*.\* Pointers to more information

 | |

 | +-- AAREADME\_BU.TXT A backup of the top-level /AAREADME.TXT file

 | +-- DOCINFO.TXT Description of files in the DOCUMENT directory.

 | +-- \*.\* Documentation files

 | |

 | +--/SAMPLES/ Sub-directory containing data samples

 | | |

 | | +-- SAMPINFO.TXT Description of files in the SAMPLES dir.

 | | +-- \*.\* Data sample files and documentation

 | |

 | +-- /\*/ Additional documentation sub-directories

 | | - Not present in all data sets

 | |

 | +-- \*.\* Additional documentation files

 |

 +-- ERRATA.TXT Documentation of errors discovered post-delivery

 | - ERRATA.TXT is not present in all data sets

 |

 +--/EXTRAS/ Top-level directory containing optional files

 | |

 | +-- EXTRAINFO.TXT Description of files in the EXTRAS/ directory

 | +-- \*.\* EXTRAS/ files

 |

 +--/INDEX/ Directory containing index files.

 | |

 | +-- INDXINFO.TXT Description of files in the INDEX directory

 | +-- \*.\* Index files and labels

 |

 +-- VOLDESC.CAT Description of the logical contents of this volume.

Whom to Contact for Information

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