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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