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RPC-MIP-EAICD

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1.3 Contents

Spacecraft

This document describes the data flow of the RPC-MIP instrument on the Rosetta mission from the spacecraft until the insertion into the PSA for ESA. It includes information on how data were processed, formatted, labeled and uniquely identified. The document discusses general naming schemes for data volumes, data sets, data and label files. Standards used to generate the product are explained. Software that may be used to access the product is explained further on.

The design of the data set structure and the data product is given. Examples of these will be given in the appendix.

1.4 Intended Readership

The staff of the archiving authority (Planetary Science Archive, ESA, RSSD, design team) and any potential user of the RPC-MIP data.

1.5 Applicable Documents

- AD 1. Planetary Data System Data Preparation Workbook, February 17, 1995, Version 3.1, JPL, D-7669, Part1
- AD 2. Planetary Data System Standards Reference, August 1, 2003, Version 3.6, JPL, D-7669, Part2
- AD 3. Rosetta Time handling RO-EST-TN-3165, issue 1 rev 0, February 9, 2004
- AD 4. ROSETTA Archive Generation, Validation and Transfer Plan, January 10, 2006, Issue 2, Rev. 3, RO-EST-PL-5011
- AD 5. ROSETTA Archive Conventions, RO-EST-TN-3372, Issue 5, Rev. 0, 28 April 2009.
- AD 6. Rosetta Project - MIP experiment - Onboard Data Handling, RPC/MIP/RP/13/980317/LPC2E, Ed. 3, Rev. 4, September 20 2000.
- AD 7. Rosetta Project - MIP experiment - MIP/PIU Data Handling Interface, PC/MIP/RP/126/990253/LPC2E, Ed. 3, Rev. 3, May 23 2001.
- AD 8. Rosetta Project - MIP experiment - Manuel d'utilisation du FS, RPC/MIP/OP/1/020125/LPC2E, Ed. 1, Rev. 0, 15 mars 2002.
- AD 9. Rosetta RPC - PIU Interfaces Document - Part II - Data-Handling Interfaces, Issue 2, Revision 2, 5th October 2000, Imperial College, Réf. RPC/PIU/RP/0/990452/IC
- AD 10. DDID- Data Delivery Interface Document RO-ESC-IF-5003 Issue B6 23/10/2003

1.6 Relationships to Other Interfaces

No products, software and documents would be affected by a change in this EAICD.

1.7 Acronyms and Abbreviations

DDS	Data disposition system (ESA server)
DFT	Direct Fourier Transform
EAICD	Experiment to Archive Interface Control Document
FFT	Fast Fourier Transform
FM	Flight Model