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# DOCUMENT

## RPC-LAP: Rosetta Enhanced Science Archive Review Procedure

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## 1 INTRODUCTION

### 1.1 Purpose and scope

This document provides information on the Rosetta Enhanced (ENH) Science Archive Review with a specific focus on the data and procedures to be followed when reviewing the instrument **RPCLAP**.

This document complements, and is an Appendix to the Rosetta Archive Enhancement Oct 2018 review procedure document [1], which provides important information on the review as a whole.

### 1.2 Reference Documents

[1] Rosetta Archive Enhancement Oct 2018 review procedure, RO-SGS-PR-2021, Issue 1.0, 26 July 2018

## 2 DATA FOR REVIEW

RPCLAP provides data sets grouped into approximate 1-month periods, based on planning blocks called 'Medium Term Plans' or MTPs. The data sets are also split by processing level (levels 2, 3 and 5). The L2 and L3 data sets underwent a review in October 2017. After this review, the L2 data sets have been re formatted to provide a more user-friendly format (less files, L3 like format). They also updated L3 to improve the saturation part of the calibration. Finally, they provide new L5 data. This high level data set is supposed to contain:

- Two different derivations of photosaturation current
- Spacecraft potential proxy
- Electron density
- Ion bulk speed
- Two different derivations of electron temperature
- Plasma density

All information needed to use/calibrate the data is provided in the DOCUMENT and the CALIB directories of each data set. The first document to read is the EAICD, which can be found in the DOCUMENT directory. For reviewing the L5 data, the team has produced a delta version of their EAICD called RO-IRFU-LAP-EAICD\_DELTA-1\_1\_2.PDF. This can also be found in the review ftp area (see below), and will be finalized and added to the L5 data set after the review.



## **2.1 What data is under review?**

The team provided 3 data sets for part of the Extension 1 phase (only first week of February 2016), one per processing level (2,3, 5).

### **2.1.1 Level 2 Data available for review:**

RO-C-RPCLAP-2-EXT1-EDITED2-V2.0

### **2.1.2 Level 3 Data available for review:**

RO-C-RPCLAP-3-EXT1 –CALIB2-V1.0

### **2.1.3 Level 5 Data available for review:**

RO-C-RPCLAP-5-EXT1 –DERIV2-V1.0

RO-IRFU-LAP-EAICD\_DELTA-1\_1\_2.PDF (delta EAICD for the L5 data set sample)

## **2.2 How to retrieve the data**

If you are a reviewer from the US, you will be contacted separately by PDS-SBN with details of how you will be provided with the data. For European reviewers, the data can be retrieved as described below.

The RPCLAP data for this review are not yet public, and the PSA ftp public server currently holds only the old versions of these data sets. These can be used for comparative purposes if needed. The data for this review will be provided to you via a secure ftp. Details of how to connect and retrieve the data will be sent by e-mail separately.

Should you have any issues retrieving the data you wish to review, please contact us using the details provided in Section 6.

## **3 REVIEW PROCEDURE**

Please check the Sections 2 and 5.2 of the Review Procedure Document [1] for an overview of the review objectives, and the strategy you should try to follow when reviewing the data. It is a good idea to try to replicate a published scientific result using the data provided.

### **3.1 Special things to look out for**

All information needed to use and understand the data is provided in the DOCUMENT directory, while calibration information can be found in the CALIB directory. It is recommended to start by reading the EAICD, provided in the DOCUMENT directory of



each data set. For reviewing the L5 data, the team has produced a delta version of their EAICD called RO-IRFU-LAP-EAICD\_DELTA-1\_1\_2.PDF. This can also be found in the review ftp area (see above), and will be finalized and added to the L5 data set after the review.

Data should be readable by standard PDS readers such as NASAVIEW (<https://pds.nasa.gov/tools/nasa-view.shtml>) and READPDS ([https://pdssbn.astro.umd.edu/tools/tools\\_readPDS.shtml](https://pdssbn.astro.umd.edu/tools/tools_readPDS.shtml)).

## 4 THE RID / LIEN SYSTEM

This review will use the ECLIPSE system to raise, track and manage issues raised. Within ESA, issues raised are known as RIDs (Review Item Discrepancies), while PDS refer to these as liens. A User Manual for the ECLIPSE system is provided, and the Rosetta Archive Team is also on-hand to provide direct support should any issues arise (Section 6). You will receive a separate e-mail with your individual login credentials for the ECLIPSE system, and you can then choose your own password.

When you raise a RID, please click on the document associated with the instrument you are reviewing, and fill in all fields available, including recommendations for how any issue you find might be resolved to your satisfaction. The following briefly describes each of the fields available and how they should be filled in:

- The **RID Number** is automatically generated by the system.
- In the **Classification** field, please indicate whether the issue being raised is
  - o Minor: an issue that does not hinder the understanding of the data to an extent by which the data cannot be analyzed by an independent scientist.
  - o Major: an issue that compromises the understanding/use of the data to an extent by which the data cannot be analyzed without additional support.

*N.B. Editorial issues (e.g. typographical errors) are not RIDs, and should be raised as described in Section 4.1.*
- In the **Originator Reference** field, please follow the convention (note that you will have to type this yourself)
  - o **RPCLAP-AA-XX-YYY** where
    - **AA** is either **EU** for a European RID or **US** for a US RID;
    - **XX** are your initials;
    - **YYY** is a sequential number, starting at 001 for the first of your RIDs.



- The **Panel** is a drop-down selection. If you are a scientific reviewer, please choose *Science Panel*. If you are a technical reviewer (e.g. PDS or PSA), please select *Technical Panel*.
- In the **Title of RID** field, please provide a short title of the RID (max. 52 characters)
- The **Datapack Document** field is filled in automatically by the system.
- In the **Document Page / Section / Para** field, please include the specific DATA\_SET\_ID and, where applicable, the FILE affected by the issue.
- The **Discrepancy Document** field can be ignored.
- In the **Description of Discrepancy** field, please include a full description of the process you followed to encounter the issue, as well as the issue itself.
- In the **Initiator Recommended Solution** field, please provide a recommendation as to how the RID can be resolved to your satisfaction.

The remainder of the fields will be populated during the panel discussion at the review meeting.

**IMPORTANT:** The RID deadline is September 28<sup>th</sup> 2018.

***The system will close on 28<sup>th</sup> September 2018 at 23:59 (CET).***

You **must** have all of your items raised within the system by this time.

## 4.1 Raising Editorial Issues

Editorials are typographical errors and issues that have no impact on the understanding and/or use of the data provided. In case you identify any issues that are editorial in nature, they should be raised using the 'Editorials' menu in the blue bar at the top of the screen. As with a RID, please complete all applicable fields when raising an editorial. Note that these will not be discussed in the review meeting, and will be sent to the teams separately.

## 5 REVIEW MEETING

The panel meeting for this review will take place 9-10<sup>th</sup> October 2018 at ESAC, Madrid. For US reviewers, a parallel meeting will take place at PDS SBN, University of Maryland. The exact agenda will be communicated to you by e-mail before the meeting, detailing



when each instrument will be discussed within each meeting, and when joint discussions between the US and European reviewers will take place.

Further details of the review meeting are provided in Section 5.4 of the Rosetta Science Archive EOM Comet Data Review Procedure [1].

## 6 CONTACT POINTS

In case of any questions related to the review, don't hesitate to contact the relevant person from the table below:

Role	Name	E-Mail	Telephone
Review Manager (issues using the ECLIPSE system)	Dave Heather	<a href="mailto:dheather@cosmos.esa.int">dheather@cosmos.esa.int</a>	+34 918131183
RPCLAP Archive Scientist (specific RPCLAP issues)	Dave Heather	<a href="mailto:dheather@cosmos.esa.int">dheather@cosmos.esa.int</a>	+34 918131183
Rosetta SGS Archive Team (general Rosetta review issues)	Rosetta Archive Team	<a href="mailto:rsgs_arc@sciops.esa.int">rsgs_arc@sciops.esa.int</a>	
PDS Contact (specific US issues)	Tilden Barnes	<a href="mailto:tbarnes4@astro.umd.edu">tbarnes4@astro.umd.edu</a>	