

RPC-LAP OPERATIONS REPORT CRUISE 4-2 MISSION PHASE

October 6, 2008 - September 13, 2009

IRFU-ROS-OPR-CR4B
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Contents

1	INTRODUCTION.....	3
2	OPERATIONS OVERVIEW	3
3	OPERATIONS LIST	3

Document history

Revision	Date	Comment
1.0	2019-08-31	Initial release

1 Introduction

This is the report from the operations of RPC-LAP in the Cruise 4-2 (CR4B) phase of the Rosetta mission, covering the period October 6, 2008 - September 13, 2009. In this mission phase, LAP was only active for one single operation:

- January 31, 2009: Payload checkout 9 (PC9)

2 Operations overview

Payload checkout (PC) operations occurred regularly during the pre-comet phases of the mission. For LAP, the minimum PC operations consisted of offset determination and probe bias voltage sweeps for photoemission determination. LAP executed such operations in PC9 on January 31, 2009.

All operations worked as planned.

3 Operations list

Below is a list of all LAP operations blocks during this mission phase. A LAP operations block is defined as a continuous run of an instrument macro, though as the archive is organized by calendar days, blocks are defined to break at midnight even if the instrument operation is continuous over this artificial border. If you find operations blocks running the same macros on both sides of midnight, this is likely to actually be a continuous operation. The list is based on the science data stream are included, so pure maintenance operations or periods with LAP idle between macro runs are not shown.

The macro concept is described in the EAICD, and the macro definitions are tabulated in the macro table, both available in the documents directory of the LAP archives in the ESA Planetary Science Archive (PSA). A LAP macro defines all aspects of the instrument operations, though particularly when a probe is in electric field mode, the probe bias (current in the case of electric field mode, otherwise bias voltage) may often be tuned by manual commands.

Block start	Block end	Macro	Notes
PC9			
2009-01-31T20:04:00.831	2009-01-31T20:28:00.832	104	
2009-01-31T20:33:20.832	2009-01-31T20:48:16.832	105	
2009-01-31T20:53:36.832	2009-01-31T21:50:40.833	204	
2009-01-31T21:53:20.833	2009-01-31T22:08:16.833	104	
2009-01-31T22:13:36.833	2009-01-31T22:25:52.833	105	