



Rosetta Status

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Background



- Since asteroid flybys (in 2009 and 2012) ESA's
 PSA has not been able to afford peer reviews
- Data have been delivered, of various qualities, at irregular times and released by PSA except when seriously bad
 - Posted at SBN as certified via release by PSA a public archive that counts for DAPs



New Developments



- Big push for archiving from Project Scientist
- Extra ESA funding
- Significant increase in PSA staff
 - 2 full time and 2 part time working on validation for Rosetta (pt = Dave Heather & Sebastien Besse)
 - Tilden Barnes at SBN struggling to keep up with validation
- DVAL still misses many things



Status at end of 2015



- Data being delivered more or less on schedule to PSA, and thence to SBN
- Data deliveries scheduled quarterly
 - each quarter since Philae landing is a phase
 - delivery six months from end of phase
 - except OSIRIS 1 year from end of phase
- Variations among instruments
 - Most deliver within 8 months
 - LARGE variation in quality (standards)



Previous C-G Peer Reviews



- Reference Frame & Coordinate System
 - Reviewed June 2015, Released September 2015
- Shape Model dataset assembled by SBN!!!
 - diverse shape model providers (LAM, LAM-PSI, DLR, ESA)
 - primary science provider (LAM) preferred to deal with SBN than PSA
 - several more shape models anticipated (based on different techniques and more data)
- C-G Shape model reviews
 - Jun 2015 first shape from science cameras,
 - serious errors of alignment with reference frame (data not released)
 - additional documentation and minor fixes also needed
 - Feb 1 2016 re-review science shape, review ESA-RMOC shape, certified with liens
- C-G Data Review
 - Feb 15-18 2016





- Feb 15-18 2016
- Raw data from NEARLY all instruments from both orbiter and lander, PRL & ESC1
- Calibrated data from same instruments but only as samples from 4 of them
- Very few higher level products
 - e.g. resampled data (to linearize wavelength scale) from ALICE (uv spectrometer)
- Liens will be fixed for ESC3 delivery (ESC2 delivery is in progress) and PRL thru ESC2 will be fixed at end of mission



Some Review Statistics



- Instruments: 24!!!
- Datasets: 155; 78 publicly released
 - OSIRIS 32 datasets in PRL & 8 per month in ESCn
 - RPC-LAP 1.2M products per dataset
- ~500 GBytes
- Problem issues
 - PSA still at PDS3.6
 - ASCII tables not properly described (e.g., bit columns in string columns) or containing invalid values or incorrectly formatted (integer columns with floating values)
 - Wrong EOL characters



Summary



- A LOT of work to be done
- A BIG improvement over a year ago