Rosetta Review, Day 1

06 October 2017

Attending:

Karl Hibbitts

Mike Kelley (UMD)

Gerbs Bauer

Rudy Frahm

Tilden Barnes

Mark Perry

Silvia Protopapa

Ludmilla Kolokolova

Emily Law

Anne Raugh (recording)

Dan Robinson (phone)

Kevin Walsh (phone)

Sascha Kempf (phone)

**VIRTIS**

Items marked (\*) should ideally be investigated prior to discussion.

Silvia’s presentation:

\* Silvia reported US-SP-016 – malformed or empty HISTORY object. This might be a label issue or a readpds issue – hard to tell without examining the header in detail.

\* US-SP-017 – SUFFIX\_BYTES issue might have been subject of an old agreement and a known erratum. The errata file does not include it, however.

The calibrated images show a herringbone pattern where there should be an image along one sampling axis. This is not present in the raw data. The reason is a mystery.

\* US-SP-015 - The note regarding VIRTIS-H calibration having known inconsistencies is worrying. Is this perhaps a hold-over from a previous submission that can now be updated?

The reflectance spectrum Silvia extracted from the VIRTIS-M data was off by a factor of ~2 from the published result. This might be a steradian issue in Silvia’s analysis, but it is not off by a factor of pi. May or may not be substantive.

Raw data look very nice as do calibration files; calibrated data need to be fixed (see RIDs), and some documentation upgrades are requested.

Certification: Raw and calibration files are certifiable; calibrated data are not.

**SESAME**

Kevin Walsh:

[Note for SBN: Do we need to start worrying about case issues in the legacy PDS3 data for users who are now accustomed to case significance everywhere?]

SESAME-CASSE

While the L2->L3 conversion seems to be very well explained and documented, there is no published L3 data against which to compare results.

SESAME-DIM

No data.

SESAME-PP

No major revelations.

Data sets look good.

Certification deferred until Monday, to give Kevin time to attempt CASSE calibration. Kevin notes the European reviewer has clearly invested a fair amount of time and attention on the science details of the data.

**ROSINA**

DFMS (and RTOF) data sets have lists of housekeeping parameters included in a table but no apparent definition of these (dozens) of parameters to be found. This alone renders the data unusable, but it’s not the only major issue. Mark’s presentation contains a laundry list of major issues and suggested improvements.

Tilden notes these data have already been archived as V1.0. Ludmilla notes the previous reviewer has not been invited back because of lack of confidence in the previous review.

**CIVA**

Oddly, the un-calibrated data look seriously flawed when display is attempted, but the calibrated data look good.

Tilden notes the browse images are rotated 90 degrees from the orientation of the calibrated images. Karl will compare current version un-calibrated images to previous version to see if that provides enlightenment on the source of the image mangling.

Certification: Not certifiable with the raw data in its current state.

**RPC-IES**

Rudy Frahm reports additional issues with the rpcies\_inst.cat file beyond what was in RID002

Certification: Certifiable, with document liens.