

# Rosetta Lander ROMAP Common File Comments

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# Overview

- All of the rl-\*romap\* review volumes share a large number of common files:
  - catalog files, documents, required files (Xxinfo.TXT), etc.rather than repeating comments on those files in every presentation my comments are all included here
- Most of the common files have been previously reviewed so there is an expectation that the files would be in pretty good shape.

# Catalog Files

- ✓ catinfo.txt
- ✓ mission.cat (various typos, content fine)
- ✓ insthost.cat (various typos, content fine)
- ✓ inst.cat (various typos, content fine)
- ✓ software.cat
- ✓ ref.cat
- ✓ person.cat

## Documents other than EACID and calibration description

- ✓ docinfo.txt
- ✓ eaicd\_romap.lbl
- ✓ rl\_romap\_logbook.lbl
- ✓ rl\_romap\_logbook.txt
- ✓ ro-lro-dp-300002-ua.lbl
- ✓ ro-lro-dp-300002-ua.pdf
- ✓ romap\_calibration\_desc.lbl
- ✓ timeline\_phc.lbl
- ✓ timeline\_phc.png
- ✓ timeline\_phc.txt
- ✓ timeline\_phc\_desc.txt

# romap\_calibration\_desc.txt

- This document is acceptable but could be improved significantly
  - There is no description of any effort to correlate the timing between instrument components (mag, spm, Faraday cups). Each component has internal timing delays associated with digitization, internal filters, readout times, electronic processing, etc. None of these effects are described or characterized.
  - It does not appear as though any ground calibration of the magnetometer sensor has been included, in particular, work to determine the orthogonalization matrix for the 3 sensors (impossible to assemble 3 sensors in a perfectly orthogonal configuration). Impact to science of not orthogonalizing on a non-spinning spacecraft is small.
  - There appears to be no effort to confirm that the final deployment geometry matched the expected state (rotation matrix is pure 1's and 0's).

# INDEX files

- ✓ `indxinfo.txt` - Add a discussion of the checksum files and their usage (MD5 tools), in particular, that they reference files from the root of the volume and not relative to the INDEX directory where the files are located.
- ✓ `index.lbl`
- ✓ `index.tab`
- ✓ `checksum.lbl`
- ✓ `checksum.tab`

# LABEL

✓ labinfo.txt

✓ Format files discussed with the labels of the various products that they describe

# Summary

- Other than fixing a few misspelled words, the common files are in good shape.