

# **Review of the imaging Earth-based data**

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# Overall assessment

- data are valuable on own and in context to Rosetta
- not archival material in the current form due to lack of documentation and insufficient PDS labels
- The data are not certifiable in the current form

# Documentation

- No higher-level documentation about observatories or instruments. E.g. what is DCT, ogs, etc.
- no documentation on the individual observatories, instruments, observing conditions, scope, etc.
- PDS labels are minimal and lack important information that can often be found in the fits headers but needs to be in the labels.

# Raw data overview

- place holders are confusing (e.g. many more raw data folders than reduced data folders. Most of the raw data folders are empty. Should not have been included in the review.
- data are fits compliant (we might not care)

# Raw data details

- ca/cafos: 2015/08-014: sky should be in calib as they are sky flats not data. These flats are 512x512 while all the others are 1024x1024. What is their use? First frame in the data directory is 2167x2048. Why is this here and how would that be reduced?
- gemini/flamingos2: calibration dates do not correspond necessarily with the object dates. Explanation?

# Reduced data

- Information about how the data were reduce is missing for all data.
- When standards are given, there is no information what these are.
- Some data are not fits compliant (we might not care)
- location of the comet (if not obvious) is missing
- units of pixel values are not given. some seem to have been flux calibrated

# Reduced data details

- ogs: fits header says that 'reduction' is raw.
- gemini (N & S): files have fits extensions but that is not obvious from the PDS label and there is no information what these extensions mean. niri file names have double underscores (allowable?)
- gemini/flamingos2: 2015\_06\_30/67p/h/  
rfd\_s20150630s0227.fit[0]  
UTEND = '10:25:37.857484' / UT at observation end  
UTSTART = '10:26:34.142118' / UT at observation start.  
end is before start?

# Miscellaneous

- Reduced/catalog  
dataset.cat: typo sourstraction --> subtraction  
software.cat: will that be updated or is that just there  
because it is there for the mission?
- Reduced/calib  
calinfo: typo files is needed ---> files are needed
- document/eaicd\_c67pearth\_img\_v1\_0.doc                    most  
of it says it is in progress. Not very helpful for being  
reviewed.



# data manipulation

- I did a quick and dirty reduction of some ca/cafos data and got consistent results compared to the provided reduced data