

# **Compilation of Comet Polarimetry Compiled from Published Sources**

urn:nasa:pds:compil-comet:polarimetry::1.0

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# Summary of Data set/collection

- Table (ASCII) of cometary linear and circular polarization, compile from published and un-published sources.

# Appropriate and sufficient documentation

- Does the dataset contain all documentation needed to use and understand its data without prior knowledge?
  - **No**
- Is the provided documentation well organized, clear and self-consistent?
  - **Yes**
- Can the dataset be understood without any external documentation it references, or should the information in said external references be incorporated into the dataset?
  - **Yes**
- If reviewing calibrated data, does the documentation fully explain the calibration process and contain all necessary parameters needed to repeat it?
  - **Not applicable**

# PDS Labels and Meta Data

- Are the descriptions and scientific content contained inside the PDS labels sufficient to understand their corresponding data products?
  - Yes
- Is all significant meta data included directly in the PDS labels?
- Do the labels provide all essential description of data values directly in the label, instead of deferring them to external references or documentation?
  - Yes
- Can the data be read programmatically using only the information contained in the PDS labels?
  - Yes

# Data

- Does the data look physically reasonable when examining it by eye or via a display tool?
  - **Yes**
- When displaying the data as plots or images, are there any unexpected deviations?
  - **No**
- Formulate a scientific inquiry and attempt to use the data to answer the inquiry.
- If reviewing both raw and calibrated data, attempt to calibrate a raw data file.

# Potential Leins

- Polarimetry Data Table: Labels look fine.
- Units are missing in the headers of the columns
- Date is not one field (YYYYMMDD.DD), so difficult to plot on the x-axis in test plots
- All comets listed as one file, so subset of data or range of dates not possible to plot per comet
- Plots of various parameters do not display trends as the data is not well-separated by comet candidate
- Polarization (P) should be written as LP (Linear Polarization), consistent with CP (Circular Polarization) ; +/- should be added to both LP and CP

## Potential Liens (2)

- Reference List File:
  - Looks rather detailed and complete
  - Alphabetically sorted
- Maybe sort chronologically, to match the format of the comet polarimetry data and can be cross-referenced by identification number
- Both files: would be helpful to download the tables as excel-type file for user's custom software/processing