

Open-ended thoughts on open source and open science for small sats

Jeff Klenzing

NASA / GSFC

Thoughts about data as launch date looms...

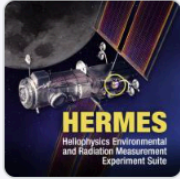
- Missions moving toward archival of all data products (L0, L1, L2)
- Archival of software
- Larger missions hosting GitHub organizations to archive software
 - Open to community input
- Smaller missions run on a shoestring budget
 - Could work together to recycle code, build off common framework



Search or jump to...



Pull requests Issues Marketplace Explore



HERMES Science Operations Center

The Heliophysics Environmental and Radiation Measurement Experiment Suite Science Operations Center codebase. This project is part of the Space Weather SOC.

United States of America

Unfollow

Overview Repositories 16 Projects Packages People 2

Pinned

hermes-pdmp Public

The HERMES Project Data Management Plan

1

hermes_eea Public

A Python package to process the HERMES EEA instrument.

1

hermes_merit Public

A Python package to process the HERMES MERIT instrument.

1

hermes_nemisis Public

A Python package to process the HERMES NEMISIS instrument.

2

hermes_spani Public

A Python package to process the HERMES SPAN-Ion instrument.

1

hermes_core Public

A central Python Package for common functionality across all hermes instruments

2

People



Top languages

Python Dockerfile

Most used topics

[nasa](#) [hermes](#) [space-weather](#)

Report abuse



Current data projects

- Currently working with archival of REACH data
 - Conversion of csv files to netCDF
 - Adding required metadata
 - Using pysat to manage files and meta
- Code will be uploaded to Space Precipitation Impacts Github once operational as an example
 - <https://github.com/Space-Precipitation-Impacts>
- Plans to use this as a template for petitSat data archival software

Discussion

- Distributed github archival sites vs SmallSat org on GitHub
- Multiple examples of data archival
- Can we follow this open software model for open science?