sunpy

The community-developed, free, and open-source solar data analysis environment for Python.

Sophie A. Murray
on behalf of the SunPy Community

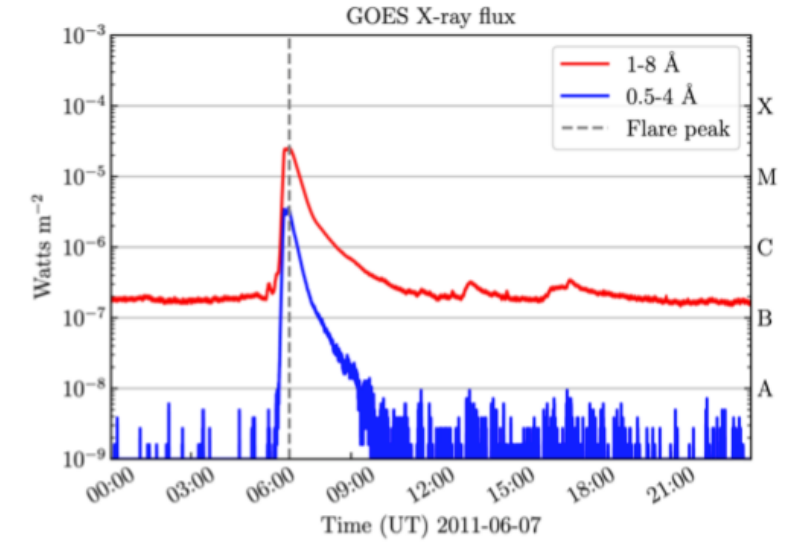
What's SunPy?

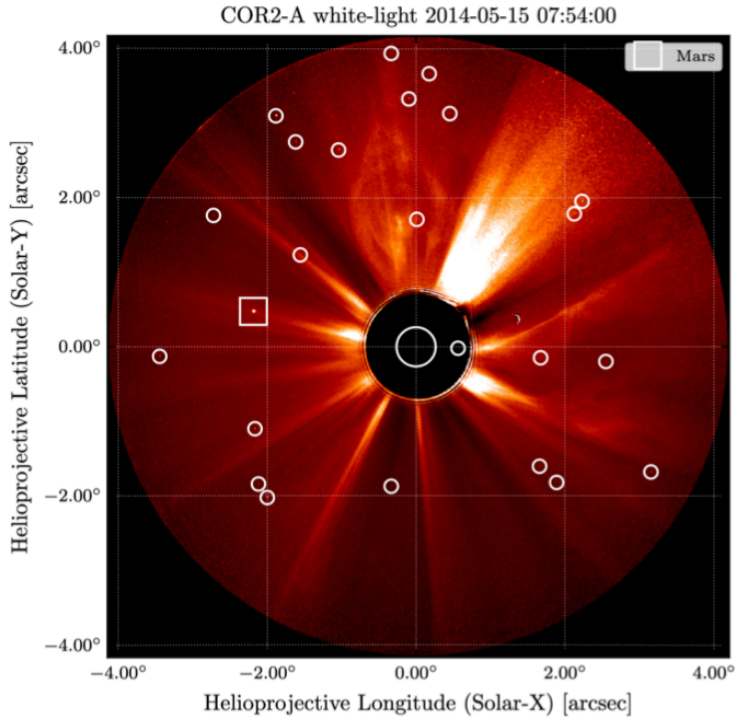
SunPy facilitates and promotes the use and development of community open source Python data analysis packages for solar physics.

Some core packages include:

- Data retrievers and IO
- Image and time series visualisation
- Solar coordinates

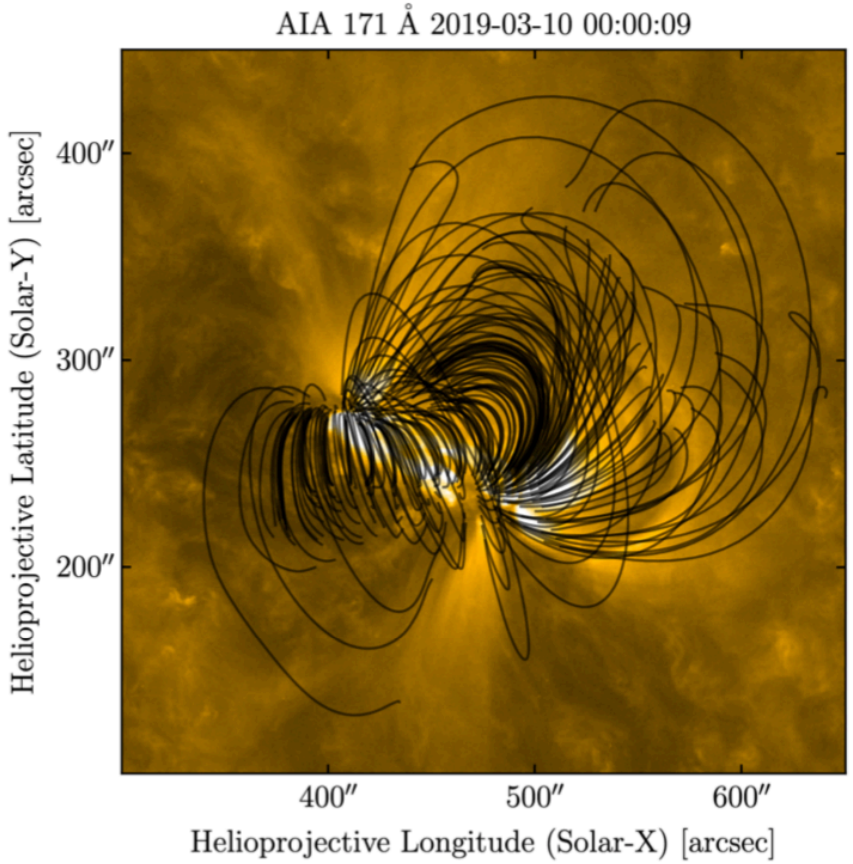
... docs.sunpy.org





There are affiliated packages too!

- aiapy for analysing data from SDO/AIA
- drms for complex data queries
- NDcube for multi-dimensional arrays
- pfsspy for potential field extrapolations
- pyflct for Fourier local correlation tracking
- radiospectra for solar radio spectrograms
- sunkit-image for image processing
- sunraster for slit spectrographs



… sunpy.org/project/affiliated

What's new?

We just released SunPy 2.0!

Some new functionality includes:

- Updates to the Fido data search and retrieval tool
- Various fixes to sunpy.map
- Integration of differential rotation into sunpy.coordinates, enabling warping of images with the reproject package
- aiaprep deprecated in favour of the new aiapy package

… sunpy.org/posts/2020/2020-06-12-20_released

Get involved!

Need help? Check documentation and blogs, ask on the mailing list, submit a GitHub issue, message us on our Riot/Element channel

… sunpy.org/help explains more!

Have an idea for an affiliated package, want to start contributing code? We'd love to work with you! Chat to us sometime, we have weekly community calls ☺

We also have a few open community roles to fill:
sunpy.org/project/#community-roles