

Python at Unidata

Unidata Strategic Advisory Committee Meeting

21 May 2014

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Python and the Unidata Community

- The earth science community has embraced python as a general purpose programming language for data analysis and visualization.
- Highlighted in Unidata 2018 proposal
- Surveying and evaluating Scientific Python ecosystem to better understand what contributions would benefit the Unidata community

Python at Unidata

- Focus on existing Unidata technologies
 - netCDF, TDS, ADDE
 - CF conventions for netCDF
- Benefit the Unidata community
 - Training Workshop in 2013 and again in 2014
 - Contributing to general scientific packages
- Participate in scientific python community
 - E.g., attend SciPy conference

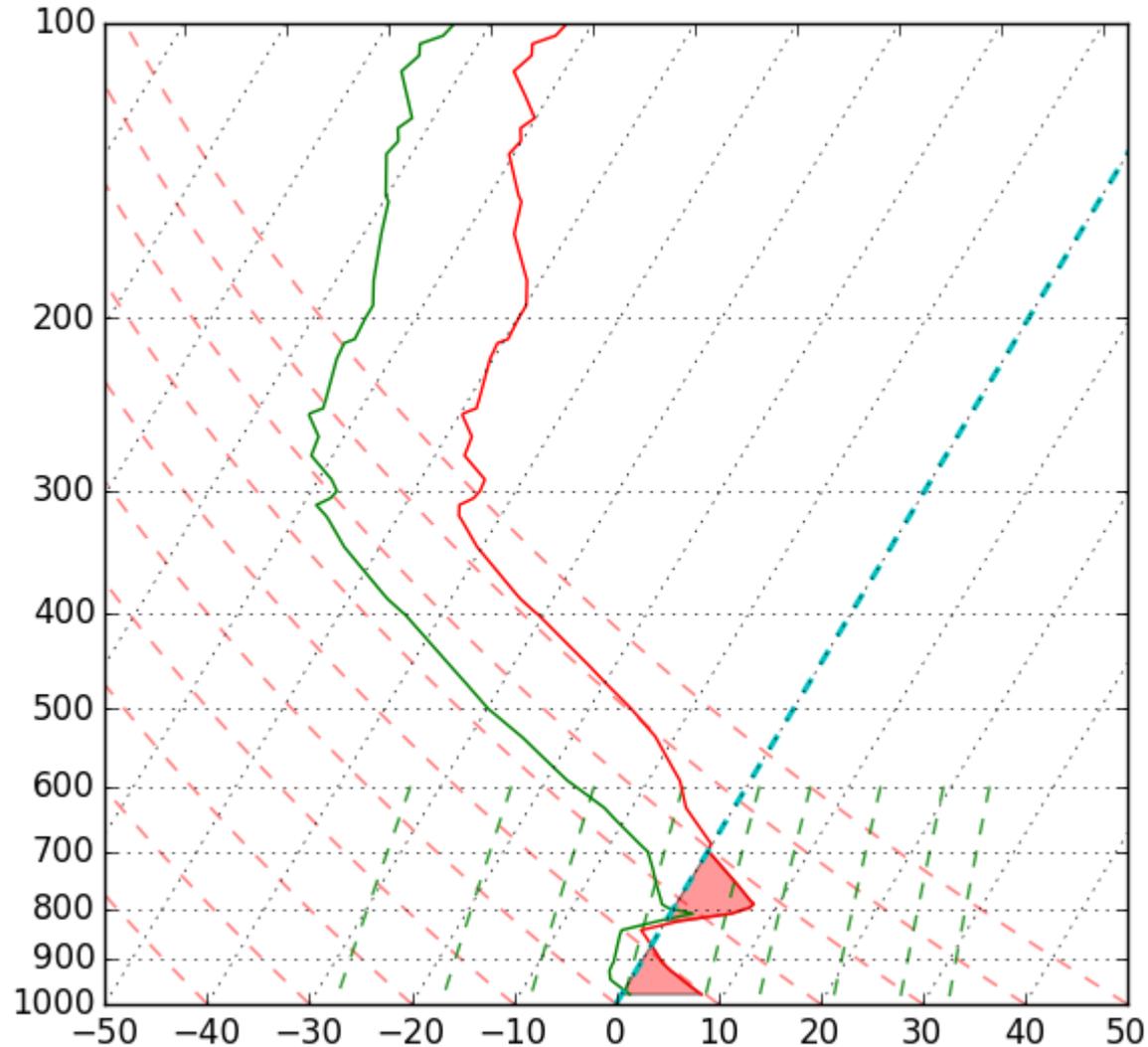
netcdf4-python

- Working with developer to maintain, support, and advance python binding for netCDF-C.
- Move source code and documentation into gitHub under the Unidata area
- Plan/desire to advance support for netCDF-4 enhanced data model.

Python and CF Conventions for netCDF

- Existing or planned projects
 - Iris and Cartopy
 - Iris examples gallery ([link](#))
 - pyCDM
 - CF-Python ([link](#))
- Recent conference call with UK MetOffice to discuss possible collaborations

Community Contributions: Adding Skew-T Capabilities to matplotlib



Python Training Workshops

- 2013 Training Workshop
 - Accessing and Using TDS Data with Python
- 2014 Training Workshop
 - Broaden the focus to Unidata technologies
 - netCDF, TDS, ADDE, etc.

General Python Tools

- IPython Notebook
 - Web interface to Python ([example](#))
- Wakari ([link](#))
 - Cloud hosted instances of IPython Notebook