Workshop on developing Python frameworks for earth system sciences

28–29 November 2017

Welcome

Working groups

- Deploying and packaging Python frameworks
- Handling Big Data in Python
- (Code) Interoperability and common data structures

Conclusions

- What we agree/focus on
  - Interoperability on meta data
  - **Mapping of meta data (GRIB to NetCDF and vice-versa) → follow-up**
    - NetCDF-CF as source of meta data
  - Conda-forge – community driven repo
    - Centrally controlled Ananconda environment for operations
  - GitHub a good start on outreach, but needs follow-up work
    - Open Development versus Open Source (see ecCodes)
  - Establish contacts to avoid reinventing the wheel!
    - Wheels can be changed - Xarray, Dask – for all packages: participate … not just watch
    - Be careful to pick the right tool for the job
    - Work together on units in core packages (numpy/xarray)
  - Improve interoperability between Iris & xarray
  - Dask is main choice for compute challenges – get the chunking right – automate it?
  - EuroSciPy – explore option to have a py4ess session?
  - SciPy – coding sprints / AMS Python conference