**Charles Doutriaux**
**Supported Projects: (ESGF, UV-CDAT, ACME, PCMDI, DREAM, other)**

**Quarterly Report for January 1, 2018 – March 31, 2018**

**Quarter Accomplishments:**
- CDAT
    - Released CDAT 8.0
    - Multiple meeting with Zeshawn to try to get xarray/dask started in cdms
    - Logos draft for cdms and vcs.
    - Fixed vcs markers so that size does NOT depend of plot coordinates.
    - Re-enabled log axes in VCS plots.
    - 1D plots notebook
    - Text objects notebook
    - Help  EZPlot to make it into release.
    - Helped user with question about CDAT/VCS/CDSM and install.
    - Cleaned up VCS documentation, added nightly doc to website.
    - Help spot and figure out cdms issue using esmf regridder with missing values.
    - Fixed DV3D.
    - Hardened the whole testing side of things with help of Lina.
- VCDAT
    - Testing and feedback to James
    - Created script to test if a new version (in the conda channels used to install VCDAT) is available.
    - Installed alpha versions for some users.
- E3SM
    - Looked into multiprocessing issue on aims4.
    - Started work to plot E3SM ne grids natively in VCS, both meshfill and isofill.
    - Communicated with Xylar on E3SM unified environment.
- CWT
    - F2F findings wrapup.
    - ESGF Certification White Paper, finalized and presented to XC and OCGIS.
    - Helped Jason when needed.
- PCMDI
    - Laid out and developed basis for Common Input Argument project
    - Implemented CIA and tweaked CDP accordingly
    - Helped Peter come up with examples of use for CIA to promote it.
    - Ported PMP diags to use early version of CIA.
    - Setup private repos.
    - Monsoon precipitation index computation merged into master.
    - Lot of time spent explaining Peter how to use conda properly….

- - Ported to Python3
    - Paper in preparation with Curt Covey, Peter Gleckler and Karl Taylor.
  - MISC
    - Deputy meetings
    - VTS for several foreigners. Trying to re-assign some to Sasha and Renata.
    - Deputies opted for weekly JIRA reports from team members.
    - Helped team members with work and other issues.
    - Interviews: ACE meeting
    - Meeting with Jen Sweeney
    - Still holding fort in Dean's absence
    - Helped Lina get confortable with CDAT testing. She did an amazing job.
    - Q clearance interview.
    - Communicated with DOE project leader when necessary.
    - Worked on two new postings with other deputies and Dave.
    - Lab trainings.

## Next Quarter's Roadmap
- CDAT
  - More Jupyter notebooks (templates, etc...)
  - Port CDAT to lab's SPAC
  - Maybe hackathon
  - Begin revamp cdms work with Denis, Zeshawn and Jason.
  - Port check_vcdat_update to CDAT.
  - Move VCS test suite out of travis.
- E3SM
  - Finish native plotting
- VCDAT
  - Help new users.
- Misc
  - Help Lina settle in.

## Resources Required to Achieve Goals
- More staff would be nice as always