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

Quarterly Report for April 1, 2017 – June 30, 2017

Quarter Accomplishments:
- CDAT
    - Released 2.10: updated website, created release note, announcement, etc…
    - Updated release notes generating software to look across all of our repos since we now split the repositories.
    - Created yaml files to easily re-install older uvcdat version.
    - Updated website to show new/additional ways to install CDAT
    - Changed logo in VCS from UV-CDAT to CDAT
    - Discovered a bug in conda that is related to "features" which affects CDAT conda distribution. Updated website to warn users not to use latest version of conda.
    - Ported more packages to conda-forge channel
    - Window port of UV-CDAT via Windows Linux Subsystem. Created a page to document this.
    - Fixed memory in vcs resizing
    - Added test to vcs to make sure there are no slow down or known memory leaks.
    - Added a feature to auto-suggest name of attributes for vcs objects.
    - Mentored Kendra and helped her with statistics webpage.
    - Helped Sandi as much as I could. We wrote the conda packaging for VCDAT.
    - Unsuccessfully tried to setup vgl/turbovnc on RH6. Awaiting help from Kitware on this.
    - Make sure nighlties are produced with correct new version schema. i..e 2.10.YYYY.MM.DD.mm.{{GIT_HASH}} that way nighlties will be updated when a newer version comes out. Previously they were of format YYYY.MM which means new stablerelease would look as lower version number.
    - Demoed "old" VCDAT GUI to Matthew and interns.
- ACME
    - Developed "ci-bots" a tool to run test suite automatically on HPC systems from a git repo and send reports to it;
    - Ci-bots poster for all-hands meeting.
    - QR.
    - Installed UV-CDAT on all machines
    - Created acme-unified package which contains both uvcdat and all extra packages needed by ACME teams.
- CWT
    - Bi-weekly meetings

- o   Helped Jason with design of COG integration
- o   Helped Jason with cdms side of aggregation.
- PCMDI
    - o   Pmp 1.1.2 release with newer (2.10) vcdat.
    - o   Cleanup monsoon branch.
    - o   Helped GFDL understand why their code wasn't giving the same answer as CDP (it was a bug on their side)
    - o   Helped Gemma understand what region selector in cdutil really does
    - o   Figured out why Mac and Linux were giving slightly different answers: it's due to esmf regridder when generating land/sea masks.
    - o   Created a pmp yml environment file.
    - o   Migrated nightlies to newer nightlies format.
- DIAGS
    - o   Helped optimize set3 by fixing a bug in vcs with 1D plot and optimizing their plot functions.
- MISC
    - o   ESGF Review presentation
    - o   One on one with Bruce
    - o   Applied for a team award for lab operations.
    - o   Hosted Aashish Chaudhary when he came for a visit.
    - o   Helping Organize PyData Seattle
    - o   Deputy meetings
    - o   Helped in decisions for critical personal in the light of worst case scenario budget.
    - o   Went with Dean to let some staff know about their situation change.
    - o   Read and gave feedback to Dean on various proposal he sent to the team, such as ESGF Review and ACME SFA documents
    - o   Entered task in roadmap documents
    - o   Misc acme confluence inputs when necessary.
    - o   LTRAIN as necessary
    - o   Approved time cards.
    - o   Fear of flying classes and councel.
    - o   A/C outage broke both my Linux boxes.
    - o   Met with Stephanie Labasan for a viz project at the lab. Provided data to her team.
    - o   Tried to keep teamrelaxed in the wake of "worst-case-scenario" cuts

Next Quarter's Roadmap
- UV-CDAT
    - o   Official release of 2.12, maybe 3.0
    - o   Port to Python 3.0
    - o   Jupyter notebooks
    - o   Finish lean up import of pngs into vcs canvases
- PCMDI
    - o   New release of pmp code with newest branches from Peter, Ken and JiWoo

- Restore WK plots.
- Help document transition to CDP
- Help parallelize some of it using CDP's improvements

Resources Required to Achieve Goals

- More staff would be nice.
- Fix my Linux boxes.