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

Quarterly Report for July 1, 2017 – September 30, 2017

Quarter Accomplishments:
- CDAT
    - Released 2.12: updated website, created release note, announcemet, etc...
    - Fixed a bug in conda that was related to "features" which affected CDAT conda distribution. Any version of conda can be used again.
    - Fixed memory vcs objects leaks.
    - Mentored Kendra and helped her with statistics webpage and poster.
    - Many more Jupyter notebooks: cdms101, taylor diagrams, using symbols and equations in vcs text, masking data
    - Made use of llvm for the headless version of VCS, making it nearly as fast as regular version.
    - Fixed crossSection bug in cdms regridder.
    - Added functions in vcs to know location of each box/mesh drawn so that we can generate clickable maps.
    - Created unittest on travis/circleci for vcsaddons
    - Looked into py-idx/visus with Cameron and Denis
    - Started to look into porting cdms to dask with Zeshawn.
    - Helped new users via Github.
- E3SM
    - Installed UV-CDAT on all machines
    - Officially instituted acme-unified package which ensures all ACME needed software run fine together.
- CWT
    - Bi-weekly meetings
    - Helped Jason with design of COG integration
    - Helped Jason testing new authentication system
    - Ported PyOphidia to conda.
- PCMDI
    - Finished monsoon branch, get same results as Ken Sperber original code.
    - Fixed WK plotting package, and setup test suite for it.
    - Prototype of clickable portrait plots.
    - Jupyter notebook on how to use Json classes.
- DIAGS
    - Fixed vcs object leak.
    - Working in figuring out why multiprocessing leads to randm vcs crashes.
- MISC
    - Deputy meetings

- Made a basic animation for Phillip Cameron Smith need to iron out.
- Trying to resurrect polar plots.
- Helped ranking staff.
- Dealt with aftermath of Denis quiting CMOR and dropping cdms from 50% time to 40% time.
- Met with scientific staff to look at possible new visualization.
- Read and gave feedback to Dean on various proposal he sent to the team, such as E3SM Review.
- LTRAIN as necessary
- Cleaned up my office.
- Excessed old machines.
- Approved time cards.
- Fear of flying classes and councel.
- Helped answer GS-CAD question about potential new hire.
- Met with Fernando Perez about Num Focus and general Python community.
- GS-CDAD interviews.
- Wrote letters of recommendations

Next Quarter's Roadmap
- UV-CDAT
  - CDAT 3.0 candiate release.
  - Port to Python 3.0
  - More Jupyter notebooks
  - Finish clean up import of pngs into vcs canvases
  - Port CDAT to lab's SPAC
  - Maybe hackathon
- CWT
  - ESGF F2F conf and presentations.
- PCMDI
  - New release of pmp code with newest branches from Peter, Ken and JiWoo and Curt diunal cycle
  - Finish parallelize most new drivers using CDP's multiprocessing/distributed
  - Animations for Phillip and Polar animation for Ben

Resources Required to Achieve Goals
- More staff would be nice.