Denis Nadeau
Supported Projects: AIMS, ESGF, UV-CDAT and PCMDI
Quarterly Report for October 1, 2016 – December 31, 2016

Quarter Accomplishments:
- Release CMOR 3.2.2 on March 2nd.
  - Correct CMOR Control Vocabulary with the latest changes.
  - Revise and update cmor.llnl.gov documentation website.
  - Add Travis Continuous Integration for CMOR.
  - Update CMOR3 tables using Martin Jukes' database as notified.
    - 01.00.01 (January 13th)
    - 01.00.02 (February 8th)
    - 01.00.03 (February 24th)
    - 01.00.04 (March 20th)
    - 01.00.05 (March 31st)
- Add CDMS and all dependencies to conda-forge.
  - [conda-forge list](#)
    - cdtime, libdrs_c, libdrs_f, clapack, distarray, ossuuid, cdat_info, libcf, cdtime.
- Update CDMS to ESMF to version 7.0.0.
  - Update 22 old native ESMP unit tests to new native ESMF.
  - Add new functionality where mask can be attached to the input grid before computing the re-gridding weights.
- Add new algorithm to compute bounds with "autobounds" method. The old one created floating point value precision errors which affected CMOR longitude (0-360 degrees).
- Fix numpy issue using "mean" function.
- Fix _FillValue issue when missing_value does not exist in the file.
- Fix Annual Cycle average computation by adding daily weights for each months.
- Add Continuous Integration for Linux and Mac (TravisCI and CircleCI).
  - Bulid cdms with numpy 1.9, 1.10, 1.11 and 1.12
- Add NC_STRING type to variables and attributes.
- Create a test for Input4MIPs files.
- Progress in CDMS documentation, but not done yet.
- Work with Cameron Christensen on ViSUS using docker and discuss CDMS integration.

Next Quarter's Roadmap

- Finalize CDMS documentation and update web site.
- Look at CDMS file creation slowness.
- Continue to work on parallelization of CDMS.
- Correct license and other validation issues in CMOR3 Control Vocabulary.

Note: I will not have an intern this summer, she decided not to come to the lab.