

**Jason Boutte**  
**Supported Projects: ESGF, DREAM**

**Quarterly Report for October 1, 2016 – December 31, 2016**

**Quarter Accomplishments:**

- CWT End-User API working with other servers (<https://github.com/nasa-nccs-cds/CDWPS>) [October]
- Implemented Gridder and Mask for ESGF CWT WPS [October]
- Verified checksums of unpublished replicated data [October]
- Verified we have no published datasets missing checksums [October]
- Updated CWT End-User API documentation [November]
- Published CWT End-User API documentation to readthedocs.io (<http://esgf-compute-api.readthedocs.io/en/latest/>) [November]
- Built Ophidia/ESGF CWT WPS docker images [November]
- Learned the publishing process/tools [November]
- Fixed missing output1 in ESGF mapfiles [November]
- Implemented various processes for ESGF CWT WPS [November-December]
- Built Conda package for CWT End-User API [December]
- Implemented simple workflow for ESGF CWT WPS [December]
- Migrating our ESGF CWT WPS to use <https://github.com/nasa-nccs-cds/CDAS2> as a backend [ongoing]
- Created summary statistics for the current state of our published ESGF datasets

**Next Quarter's Roadmap**

- Split ESGF mapfiles by institute for unpublish/publish [January]
- Migrate ESGF CWT WPS to use CDAS2 as backend [January]
- Write WPS message library to replace OWSLib in ESGF CWT API [January]
- Implement queuing for ESGF CWT WPS asynchronous calls [January]
- Learn Synda (ESGF Downloader) [January]
- Perform health check on our ESGF node [February]
- Implement OpenID authentication for ESGF CWT WPS [February]
- Migrate our old CDMS2 processes to CDAS2 for ESGF CWT WPS [February]
- Implement Resource Management for ESGF CWT WPS [February-March]
- Replicate missing CMIP5 [February]
- Prepare for CMIP6 replication [March]
- Implement Load-Balancing for ESGF CWT WPS [March]

**Resources Required to Achieve Goals**

- N/A