

**Sasha Ames**  
**Supported Projects: (ESGF, DREAM)**

**Quarterly Report for October-December 2017**

(ongoing efforts when not indicated)

**Quarter Accomplishments**

- **Publication working team:** continued to lead PWT in effort to prepare for CMIP6; updates to the publisher software and testing of data publication including performance testing of PrePARE.
- **Installation:** Cut 2.5.15-17 releases and deploy at LLNL. Work on automating VM test infrastructure. Supervise WH on 3.0 effort
- **Node Manager and services:** Checked on several deployment issues, code documentation. Decision at F2F to remove daemon. Work on subscription service search calls proof of concept
- **Replication and LLNL publishing:** Continued to supervise Jeff. Input4MIPs publishing updates and maintenance. Publication of E3SM (Donahoe) and PSIPPS (high profile publication) datasets
- **Machine Learning:** Continued supervision of research effort led by Soo and collaboration with LBL on training data definition.
- **DREAM:** Implemented lightweight data service for non-netCDF files
- **F2F conference:** preparation and presentation of 2 talks and poster. Chaired session. Involved in planning
- **AIMS leadership:** personnel management discussions
- **ESGF XC:** Participation in Dean's absence; planning of Data Challenges
- **HPSS service:** meeting at LBL and continued advise on the effort

**Next Quarter's roadmap**

- **Publication working team:** continue CMIP6 preparation work as more sites prepare preliminary data. Data challenge work
- **Installation:** Supervise installer rewrite (requirements ; design review; task tracking ; help with subcomponent deployments) Coordinate 2.6 updates and site upgrades. Supervise installation requirements and deployments to support data challenges (in test federation); get Lina up to speed for CI / automated release testing
- **Node manager and services:** Refactor Node Manager code base (due to F2F decision)
- Subscription-based tracking. Verified client protocol. Docker integration [ with Luca - TBD] . Coordinate changes with/to monitoring services
- **Machine Learning:** continue to advise Soo; work on training set definition and publishing to ESGF with LBL; work with Zeshawn on software requirements, design
- **Replication and LLNL publishing:** continued supervision of the replication and publishing effort. input4MIPs republishing with PIDs [January]. Coordination with Paul / PCMDI on their needs
- **DREAM:** more genomics data, implement server-side caching [October]
- **Compute:** on deck to help Jason and Cameron C. in ESGF integration and deployment

- **HPSS:** continue to assist LLNL in redeployment
- **Other:** DOE BER SBIR review panel [January]

#### **Resources Required to Achieve Goals**

- IWT coordination to integrate installation update within a formal development/production release
- Jeff available for replication work;
- William to collaborate on release issues
- Luca on Docker;
- Paul/Cameron on CSS management
- Tobias to continue Working Team discussions and planning
- Jason for compute deployment.
- Lukasz to help with Ingestion service
- More developer time to take over tasks.
- LBL continued availability for HPSS work and ML collaboration