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Supported Projects: ACME ARM

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

Quarter Accomplishments:

- Attended ARM/ASR PI meeting 2017 to present and receive feedbacks on the ACME diagnostics work [June 2017]
 - Won best poster reward
 - Lead a break out session with Kate Evans on coordinate diagnostics effort within ACME
 - Gave an invited talk on ACME diagnostics package
 - Gave a presentation on ARM diagnostics package and showed its connection to CDP at CMDV PI meeting
- Released the v0.1b version of ACME diagnostics package which supports four sets of AMWG diagnostics with Zeshawn [June 27 2017]
- Worked on refactoring ARM diagnostics package, four sets of diagnostics are done [May, June 2017]. More datasets are produced to be included in the second release.

Next Quarter's Roadmap

- Extend the ACME diagnostics, according to the feedbacks from ACME meeting, finish implement the atmosphere group diagnostics [July-September 2017]
- Have a basic version of new observational variables as the default obs datasets [July-September 2017]
- Finish the refactoring of ARM basic metrics and prepare a release, continue work on process-oriented metrics [July 2017, 2017]
- Create a central place to host all the observational datasets for ACME [July ~ 2017]
- Start communication with Land group and plan for the land diagnostics after completing the atmosphere diags after next quarter.

Resources Required to Achieve Goals

- Support from CDAT (Charles) is important.