

Sam Fries
Supported Projects: (ESGF, UV-CDAT, ACME)

Quarterly Report for October 1, 2015 – December 31, 2015

Quarter Accomplishments:

- Profiled, traced, and optimized multiple performance bottlenecks in plotting, patterns, and the GUI (October/November 2015)
- Dramatically improved animation output of UV-CDAT, increasing quality and reducing file size (October 2015)
- Significantly reworked initial Patterns / Hatches implementation, improving image quality, code quality, and performance (October/November 2015)
- Fixed a multitude of bugs of varying ages in the UV-CDAT GUI (Isoline label editing, silenced all command line output, removed unnecessary PNG generation, removed broken functionality, etc.) (October/November 2015)
- Fixed long-standing bug with using alternative continents, and added functionality to customize the appearance of the continents (November 2015)
- Documented new features for UV-CDAT 2.4, and fixed a bunch of bugs while doing so (<https://github.com/UV-CDAT/uvcdat/wiki/2.4-Features-Documentation>) (December 2015)
- Built initial prototype of BASEJumper, connecting HPSS and a web application to download with progress tracking (December 2015)

Next Quarter's Roadmap

- Will complete API for Publisher metadata for BASEJumper (Jan 2016)
- Will integrate BASEJumper with ESGF Auth (Jan 2016)
- Will integrate BASEJumper with CoG (Jan/Feb 2016)
- BASEJumper in PCMDI11 dev environment (Feb 2016)
- Will complete porting of CDMS manual to SPHINX (Jan/Feb 2016)
- Will finish preparing preview version of new CDAT GUI (Feb/March 2016)
- Will demo CDAT GUI and gather user feedback (March 2016)

Resources Required to Achieve Goals

- Need to gather attendee list and send out invites for GUI Demo (Week of 3/7/16)