

2022-03-31

JEDI meeting notes

Logistics (Yannick Trémolet)

- No meeting Apr 7 (ET retreat)

JEDI 1 (Dom Heinzeller)

- Request from obs team to have ioda-converters-data repository using git-lfs
 - EMC also expressed interest in adding tier-2 test files (much larger)
- Change in CI system suggested so that different branch names can be used for PRs to different repositories
 - <https://github.com/JCSDA-internal/ioda/pull/670>
- Progress on ioda writer, output now identical to current system (ordering etc.)
- Fix for zero observations in the obs space <https://github.com/JCSDA-internal/ioda/pull/666>
- jedi-stack fix download only option (2 PRs merged)
- jedi-cmake release 1.3.0: <https://github.com/JCSDA-internal/jedi-cmake/releases/tag/1.3.0>
 - Required for cloning develop branches of bundles from JCSDA public (future development), e.g.: <https://github.com/JCSDA-internal/ioda-bundle/pull/36>
 - jedi-cmake 1.3.0 will be installed in jedi-stack and spack-stack, then removed from bundles
- ECMWF's fiat (replaces faux) and ectrans (replaces trans) now publicly available
 - um-jedi feature/ectrans uses these and new eckit 1.19.0 (<https://github.com/ecmwf/eckit/pull/42>)
- spack-stack now builds on all supported platforms & more: macos, linux, gaea, hera, jet, orion, cheyenne, s4, discover, NOAA cloud, Amazon EC2
 - EWOK tutorial 03/30/2022 was using spack-stack underneath

JEDI 2/3 (Anna Shlyueva)

- GetValues refactoring nearing merge point
 - Yannick adds: this first stage is just about settling the model interfaces, future PRs will bring further optimization
 - simultaneous work on general interpolator for use outside GetValues contexts
- SABER PR adding multi-component / peaked functions
- Added GSI's leaf area index to fv3-jedi

JEDI 4 (Yannick Trémolet)

- Many updates to EWOK repo, including branch renames (from old repo, probably easiest to re-clone)
- Started testing within JCSDA, will share more widely after some more fixes

LAND (Andy Fox)

- working on getting ready for GetValues merge

SOCA (Travis Sluka)

- SOCA ready for GetValues merge

COMPO (Jérôme Barré)

- Worked on this PR that got merged: <https://github.com/JCSDA-internal/ufo/pull/1934>. This allows correct vertical integration of tracers. This operator would replace atmvertinterplay for all tracers as it could do an averaging kernel smoothed or non smoothed integration in the future. For total and partial columns.
- Worked on the WBS with all the other leads.
- Discussed strategic planning across labs with NASA composition scientist C. Keller.

UFO (François Vandenberghe)

- PR adding TROPICS converter ready to merge soon in ioda-converters repo