JEDI2 Meeting — October 7, 2020

General announcements:

- Documentation sprint is ongoing.
- JEDI release is two weeks away.
- JCSDA GitHub organization migration is next week.
    - JCSDA → JCSDA-internal, and a new public JCSDA organization will be created.
    - This will be a complex process, and hopefully we don't break ZenHub links and other links to issues.
    - Public repos: oops, saber, ioda, ioda-engines, crtm*, ufo, ufo-bundle, fms, femps, fv3-jedi, fv3-jedi-linearmodel, fv3-bundle, jedi-stack.
    - During migration, please do not push new commits. These may be lost.
    - You will likely have to re-clone your local copies of code. Repository history may change (large file extraction).
    - More details and timelines at the general meeting tomorrow.

Agenda:

1. Announcements
2. Round table updates. What have you been working on, are there any issues, and what are your expectations for the next two weeks?
3. ZenHub boards
4. Questions?

Updates:

Ryan:

- Finished the ioda Python interface (JCSDA/ioda-engines#136). In review.
- Debugging very slow HDF5 calls with ioda-engines (JCSDA/ioda-engines#146).
    - Quick fix: feature/openMemoryFile. PR later today.
    - Started the generic copying mechanism for ioda-engines (JCSDA/ioda-engines#95). Efficiently copies data from one backend to another.
- Documentation sprint. Working on ObsSpaces and the ioda file structure (JCSDA/ioda-engines#144, JCSDA/jedi-docs#129).
- Actions ignore where clause bug: JCSDA/ufo#1316. FilterBase::doFilter logic is problematic and does not propagate the result of processWhere to action.apply.
- Trying to make time for reviews / merging of the remaining UFO PRs.

Nick Esposito

- Spoke with Emily Liu, who informed us about UFO training. Planning on attending that when that happens (early November). Will also be speaking to her about short-term plan for us to work on transitioning the prepbufr QC to UFO.
- Plans to have all of aircft, including PREPACQC finished soon. Currently splitting PREPACQC up between Praveen and I.

Ron McLaren
Listed items below are for the ioda-engines based bufr to ioda converting code in ioda-converter (currently ioda-converter/bufr in feature/bufr-converter, feature/bufr-ext, and feature/bufr-yaml-updates [PR's active on all branches]).

- Finished YAML changes that Rahul had asked for. Basically one YAML file can now specify a list of Observations where each observation specifies an input and an output.
- Added support for multiple different input parsers via a template class (ParserFactory) in ioda-converter /feature/bufr-yaml-updates.
- Converter basically working at this point (at least for radiance data). Mostly waiting for PR request completions (3 outstanding PRs).

Wojciech Smigaj:

- Last Parameters-related PRs before release have been merged into oops.
- Working on the documentation (updates to jedi-docs pages on Parameters and UFO filters).

August Weinbren:

- Built out comparison tests in OPS, which ensured unit test results in JEDI match Fortran equivalent
- Currently finishing up another set of tests in OPS, running ioda ship data ncdf file and comparing flagged observations to those flagged in JEDI

Praveen Kumar:

- Built, installed, and tested the updated ObsProc_prep and ObsProc_global repositories on HERA
- Finished adding PRINT statements to the ObsProc_prep/PREPDATA codes and generated log file shared with Emily and Shelley
- Continued adding PRINT statements to the ObsProc_prep/PREPACQC codes
- Attended Fall Python 2020 Session 1 and Session 2 Workshops

Steve Herbener:

- ObsSpace refactoring
    - All ioda tests are passing
    - All but ~30 ufo tests are passing (should have these fixed today)
    - Fv3-bundle tests are next step after ufo-tests pass