AP Pipeline Meeting, 2018-10-22

BlueJeans: https://bluejeans.com/426716450

attending: Eric Bellm Unknown User (cmorrison) Unknown User (emorganson) Meredith Rawls Ian Sullivan Krzysztof Findeisen

Topics for discussion:

- HiTS reprocessing (Meredith Rawls)
  - Made "goodSeeing" coadds with a fwhm cutoff rather than an n-images cutoff (

    > ⚠ DM-16191 - Jira project doesn't exist or you don't have permission to view it.

). The mysterious images in the middle of nowhere have disappeared. Also generating a naive coadd of everything for comparison.
  - Getting ready to start ap_pipe kicked off on these coadds.
  - Eric Bellm asked for thoughts on #dm-science-pipelines about how to handle

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    ; got a range of orthogonal ideas, including RHL suggesting
- DES processing (Unknown User (emorganson))
  - Now working for real on gri bands; alert db on his repo is now getting filled as we speak. Just needed to get config.warpType correct.
  - Will work with Meredith Rawls on looking the outputs.
  - Going to start working with Jim Parsons at NCSA to give him more realistic inputs
  - Also poking at Docker/Kafka/Kubernetes.
  - Right now it's 110 exposures (no z-band), but have two more years we could add later if we wanted more scale.
  - calibration database he made should be ~universal and work for all DECam datasets
  - going to try to make some fringe calibration inputs; not clear the correction will work
- CI (Krzysztof Findeisen)
  - we are running in CI nightly, so far with no failures
  - running on a minimal subset of HiTS 2015
  - We are computing #s of DIASources, # of direct sources, timing of major subtasks. Not currently uploading anything to SQuASH. Eric will ping Josh/Simon/etc. to find out how we can do this. Not computing any of the DRP metrics; is that a problem?
- DCR (Ian Sullivan)
  - now recovering input source spectra, modeling reports better convergence.
    - including a restriction to detected sources, which allows use of larger number of subfilters
    - some DCR was existing within subfilters; larger number of subfilters helps, other algorithmic fixes
    - now applying the LSST throughput in a different place–applied to measurements at the end.
  - one more scaling bug to check on; otherwise ready for running on HiTS. Need to think a little bit about input configuration parameters based on what's in HiTS data.
  - longitude bug to be fixed in obs_decam by next week thanks to Tim Jenness.
- `ap_*` development
  - ap_association: all the old hooks are removed; talking directly to PPDB and writing the SQLite. Found and fixed a bug with summary stats. But can't merge yet because has adjusted to only handle dpdd-ified objects; so writing a ticket to do the dpdd-ification.   Will eventually have a ticket on ap_pipe for handing in the database object.
  - expect some database changes
- AOB/table round