

# AP Pipeline Meeting, 2019-08-05

BlueJeans: <https://bluejeans.com/426716450>

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

Topics for discussion

- HiTS processing (Meredith Rawls):

- discussion of



DM-20534 - Jira project doesn't exist or you don't have permission to view it.

: comparing ap\_pipe run

- on HiTS 2015 with standard processing, instcal-instcal (CP-processed data), calexp-calexp
- most data processed. instcals had some substantial failures—some astrometry failures and some diffim matching failures, and some crappy single CCDs. Calexp-calexp was in general better but a few missing CCDs
- standard processing has about an order of magnitude more sources than calexps, which go away when your filter on flags:
  - instcal-instcals have fewer pixel flags, but that's because nullsr is not setting pixel flags on the instcals
  - why the big jump in flagged sources (and hence raw DIASource counts) when going from calexp-calexp to calexp-coadd?
    - calexp-coadd is ~193 raw DIASources/ccd, calexp-calexp is ~76
    - is some of this the issue of the variances in the coadds being underestimated, as Yusra identified?
    - we should check with Yusra next week about rescaling variance, maybe see if Meredith can take on some of that work (although @gabor had the ticket DM-20558)
    - still lots of dipoles in the fit
- DES processing (Unknown User (emorganson)):
  - putting together some testing code for moving around kafka alerts
  - some question of whether alert contents are sufficiently in-memory—we think it is since association is already computing stats on all the
  - John asserts that doing the packaging is "fun and easy"
  - Eric requests to be involved in this "fun and easy" part when it comes time to do it
- ap\_association (Unknown User (cmorrison)):
  - DIAForcedSources are now in the database as their own table (psFlux on diffim and totFlux on calexp, both at existing DIAObject position)
- DCR (Ian Sullivan):
  - trying to run all of HiTS with DCR, but everything failed with strange errors, working on fixing it
- Image differencing (Unknown User (gkovacs)):
  - clearing ticket backlog; didn't save screenshots from processing so having trouble backfilling the tickets.
  - looking next at metadata ticket and scalevariance ticket. thinks he wants to write a wrapper to make the scale variance in a standalone step.
- Review CI (<https://chronograf-demo.lsst.codes/>):
- AOB
  - Meredith Rawls will give a short talk about DIA processing at PCW
  - Krzysztof Findeisen wrote a metric for memory usage—one gotcha is that it isn't useful to run on subtasks—only runs in a cumulative way, so can't break it down lower than ap\_pipe. appears on ap runtime chronograph
  - Ian Sullivan will write small DCR talk for same session
  - no meeting next week due to PCW. Eric will be out the subsequent week (Hotwired) so hopes John Swinbank will take over.