AP Pipeline Meeting, 2021-09-27

2pm Pacific Time

BlueJeans: https://bluejeans.com/426716450

attending:

- Eric Bellm
- Ian Sullivan
- Krzysztof Findeisen
- Kenneth Herner
- Unknown User (cmorrison)
- Spencer Nelson
- Meredith Rawls

regrets

Topics for discussion:

- Project updates (Eric Bellm , Ian Sullivan):
    - JSR next week
- Pipelines Infrastructure (Krzysztof Findeisen):
    - ⚠ RFC-807 - Jira project doesn't exist or you don't have permission to view it. naming
        - this is DRP focused, but we should expect to have to propagate changes back to AP–e.g., psFlux psfFlux
        - bitmasks packed or not or will depend on implementation, doesn't affect us
        - Schema translator is the same between AP and DRP
            - KF: Do we need to keep the APDB schema as is?
                - CM: That is a question for DAX. This could change their timing metrics.
            - CM: Does not consider this too bad of a problem, since CM wrote the DRP and AP code. The two do not share code after the transform step.
                - The pipeline on our end would get caught by CI pretty quick if DRP changes things that effect AP.
- Precursor processing (Meredith Rawls, Kenneth Herner):
    - Meredith
        - at present can't do both fakes and multi-tract:
            - multiple tracts trying to write the same dataset type with the same dataID
            - https://lsstc.slack.com/archives/C01FBUGM2CV/p1632769640247100
            - some discussion of how this may or may not differ from other products
            - Chris thinks there may be some workarounds with loadMulti–they will chat during pair coding
        - easiest would be to drop fakes
        - or use a single tract–but that would require too much time, still has to rebuilt calibs
        - Eric suggests: don't push on being ready for QA meeting, let's resolve the fakes loading before running HiTS (either by fixing fakes loading for multi-tract, or defining a single tract as a fallback)
    - Diffim sprint reprocessing (Ken)
        - Lots of extra DiaSources showing up in patch-like regions around the outside of the diffims using the best seeing-selected coadds
        - The DiaSources look good (and the same as before) using the middle seeing selected coadds
        - Suggestion is that there is a possibility that the wrong coadds are being grabbed for the best seeing case, and these might have few constituent images
- Image differencing algorithms (Ian Sullivan):
    - ⚠ DM-31884 - Jira project doesn't exist or you don't have permission to view it. filed to test equivalence of template vs science image convolution.
- association/SDM/fakes/astrometry (Unknown User (cmorrison)):
- real-bogus (Eric Bellm, John Parejko):
    - no updates
- alert distribution/performance tuning (Spencer Nelson):
- Preops DP0.2 preparation (all):
- Review CI (https://chronograf-demo.lsst.codes/):
    - There is a change in the DiaObjects metric for both Cosmos and HiTS starting 9/26.

- Ian merged

that was a clean-up of some of Gabor's unfinished work on 9/25 . This should not have caused a change since it should have only affected image differencing using preconvolution, but it should be investigated.
- Review outstanding action items
- QA meeting in October (next week):
  - Ken/Ian: diffim sprint recap.
  - Eric: followup from comments at last meeting
    - DM-31341 conclusions on edge and nondetections
  - Meredith: HiTS run–probably have to defer to november to get fakes
  - Ken: saha bulge? hopefully november
- AOB
  - none

Action Items

Description	Due date	Assignee	Task appears on
☐ Eric Bellm write up retention policy and sizing for APDB **17 Jul 2023**	17 Jul 2023	Eric Bellm	AP Pipeline Meeting, 2023-06-26
☐ Eric Bellm dig into alert serialization test in ap_association and ticket ways to improve it **11 Sep 2023**	11 Sep 2023	Eric Bellm	AP Pipeline Meeting, 2023-08-21
☐ Eric Bellm review broker communication channels **25 Sep 2023**	25 Sep 2023	Eric Bellm	AP Pipeline Meeting, 2023-08-14