

# AP Pipeline Meeting, 2021-05-24

2pm Pacific Time

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

attending:

- [Eric Bellm](#)
- [Ian Sullivan](#)
- [Unknown User \(cmorrison\)](#)
- [Unknown User \(gkovacs\)](#)
- [Krzysztof Findeisen](#)
- [Kenneth Herner](#)
- [Meredith Rawls](#)

regrets:

Topics for discussion:

- Project updates ([Eric Bellm](#) , [Ian Sullivan](#) ):
  - replan review is underway
- Pipelines Infrastructure ([Krzysztof Findeisen](#) ):
  - working on getting fakes running in a way that will be compatible with later pipelines rearrangement—still just starting
- Precursor processing ([Meredith Rawls](#), [Kenneth Herner](#) ):
  - Meredith:
    - still having some trouble with the last stage of DECam template building in gen3 shared repo
    - is showing DC2 preliminary processing, small amount of g-band data
      - there are some edge effects visible, and troubling overdensities
      - is there dithering? we think so
      - is the DDF included in this data/DP0.2? If not, are there are variables
  - Ken: still stuck on problem w/ change since last weekly. otherwise busy with non-Rubin work
  - QA meeting:
    - fakes? Krzysztof is working on it this week but out next week, so we will see
    - Meredith: nothing to show with HSC, DECam still debugging; just showed DC2 (on ap\_pipe)
      - Ken thinks he can work on DC2 in next couple weeks
      - Meredith will try to show DECam data if she can get it working
    - Ian: can we try to get cutouts with some metadata displayed alongside? (seeing, etc.)
      - don't worry about making it elegant in the short term, can print it
    - future topics:
      - Ian: diffim unit tests? if results
      - probably already overbooked for next QA meeting, but we could tag Gabor in the future for some show and tell
      - also for next month: showing/discussing persisted likelihood images would be useful
- Difference imaging algorithms ([Unknown User \(gkovacs\)](#), [Ian Sullivan](#) ):
  - Gabor: showing a notebook trying to understand why simple positive/negative pixel swap metric changed when image order is swapped in ZOGY.
    - problem was due to padding images with random noise (to avoid artificially biasing the variance low near the edges)
    - found a bug that the metric was not actually calculated at source locations, but at random positions
    - also sees grid-like (high-frequency) oscillation around zero—so the unit test failed
    - fix is easy, already ready on a branch—seed the random number generator with the image rather than the image order
- association/SDM/fakes/astrometry ([Unknown User \(cmorrison\)](#)):
  - busy with DP0.2
- real-bogus ([Eric Bellm](#), [John Parejko](#) ):
  - no update
- Preops DP0.2 preparation (all):
  - Chris:
    - cleaning up simple association from DESC's dia\_pipe, adding unit
    - still waiting on review to merge main pipeline
  - Meredith:
    - draft writeup at "what I did" stage, unblocking Ken
  - Ken to work on processing from here, with shadowing from John Parejko
- Review CI (<https://chronograf-demo.lsst.codes/>):
  - nothing new. Chris believed he had identified some larger-than-floating point differences when reading from raws in



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it.

, which conflicts with Lauren's claim

that HSC Gen2/Gen3 were bitwise identical coming out of SFM. We want to confirm Chris's work and ticket middleware if necessary.

- Review outstanding action items
- AOB
  - Eric organizing SP weekly meetings in June, so topic suggestions welcome! (I have some ideas)
  - several vacations this week and next
  - Meredith still wondering where to put pipelines... DRP folks are putting stuff in obs\_subaru that import from pipe\_tasks/DRP.yaml.

### Action Items

Description	Due date	Assignee	Task appears on
<input type="checkbox"/> Eric Bellm write up retention policy and sizing for APDB 17 Jul 2023	17 Jul 2023	Eric Bellm	AP Pipeline Meeting, 2023-06-26
<input type="checkbox"/> 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