

AP Pipeline Meeting, 2022-05-16

2pm Pacific Time

Zoom: <https://washington.zoom.us/j/98846655020>


attending:


- [Eric Bellm](#)
- [Ian Sullivan](#)
- [John Parejko](#)
- [Krzysztof Findeisen](#)
- [Nima Sedaghat](#)

regrets

Topics for discussion:

- Project updates ([Eric Bellm](#) , [Ian Sullivan](#)):
 - two new AP team members!
 - Bruno Sanchez (at IN2P3)
 - Brianna Smart (at UW, Aug 1)
- Pipeline Performance sprint ([Eric Bellm](#) , [John Parejko](#) , [Meredith Rawls](#)):
 - kicked off today
 - Umbrella ticket:

 [DM-34623](#) - Jira project doesn't exist or you don't have permission to view it.
- Pipelines Infrastructure ([Krzysztof Findeisen](#) , [John Parejko](#)):
 - Krzysztof: almost got a refactor of the ap_pipe pipeline ready to merge. Next working on standardization of annotations—Dashboards will have a link to the confluence.
 - "ap_verify in Prompt Processing": there is a successor to Squash planned for operations ("Sasquatch", still influxDB/Chronograf). Let's discuss what it would take to push metrics from PP.
 - KF: not true that metrics handling is baked into ap_verify! In gen3, metrics are handled within the pipelines themselves. Currently pipelines with metrics live in ap_verify, but no reason we couldn't compute metrics in prompt processing (at cost of additional latency etc.)
 - uploading to squash might be harder: square worried about
 - in prompt processing, could defer some of this to a central worker/service
 - ap_pipe could be minimally instrumented (e.g., timing, very cheap metrics), with the rest as afterburners
 - KF: right now metricTask has to re-read all of the inputs—middleware had been thinking about caching of input datasets
 - EB: timing metrics should be fast? KF: still have to read in the metadata, but it should (?) be fast.
- Precursor processing ([Meredith Rawls](#), [Kenneth Herner](#)):
 - Ken: ready to test refactored diffim when it's available.
 - Meredith: testing Krzysztof's refactor, then ready for HiTS rerun (+ performance sprint)
- Image differencing algorithms, DCR ([Ian Sullivan](#)):
 - replicated diffim in standard configuration to machine precision w/ refactored diffim
 - a few differences in other places, but due to bugs in original ip_diffim
 - running on HiTS, hit some bugs due to metadata name changes
 - JP: we now don't have imageDifferenceTask. so timingImageDifference is looking for metadata that doesn't exist.
 - KF: so we'll need to create some new metrics.
 - JP: thinks there are some name changes (anything with ImageDifference). Old image difference will continue to work with existing configs, but we'll need to
 - JP: had to manually exclude any diffim metrics due to failures. KF: thinks it's a bug, likely in verify—should be None rather than fail if Task doesn't run. Has

 [DM-30869](#) - Jira project doesn't exist or you don't have permission to view it.
- to use new optional inputs facility
 - still trying to run full ap_pipe, failing somewhere in dia_pipe with some kind of filterName issue. Hopes to try to debug this later this week if others are available.
- filterLabel warnings: KF: we need to update the templates to newer versions.
- also, butler uses alphabetical task names to order tasks it thinks can happen at the same time, which messed up QG generation (since getTemplateTask only needs a portion of the calexp, not the whole data product)
 - getTemplateTask fails, retrieveTemplateTask works

- DM-34811. see also



DM-32725 - Jira project doesn't exist or you don't have permission to view it.

- transinet (Nima Sedaghat, Eric Bellm, John Parejko):
 - trained transinet now finding SNe in science & templates from DC2
 - was actually hard to verify injected SNe by eye at all!
 - JP reminds us that DC2 sims injected to very faint magnitudes—so delta flux is not enough to be sure that it's detectable
 - Nima: wants to understand how to apply calibration to the two images
 - JP: sent the command
 - NS: need to understand how to inject sources on the fly. JP: it's just nJy after calibration. We don't know what delta flux is from DC2
 - started to design interface for applying classification to DIASources, working with JP on interfaces
- alert distribution (Eric Bellm):
 - no update. Frossie reminds me that the service is bitrotting—square has changed phalanx configurations
- Review CI (<https://chronograf-demo.lsst.codes/>)
- Review outstanding action items
- QA meeting in June:
 - Performance sprint update
 - Report on diffim refactor
- AOB
 - none

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
<input type="checkbox"/> Eric Bellm review broker communication channels 25 Sep 2023	25 Sep 2023	Eric Bellm	AP Pipeline Meeting, 2023-08-14