Gen3 Pipeline for DP0.2

Current requests for backporting to 23.0.x for DP0.2

key	summary	type	created	updated	due	assignee	reporter	priority	status	resolution

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Approved requests for backporting to 23.0.x for DP0.2

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Completed backports to 23.0.x for DP0.2

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Notes from team meeting Sept 29 2021:

Known Issues: If new ones come up use label: backport-v23, DP0-patch

- Forced phot on good seeing coadds
- Tons of deprecation warnings log bombing for computeShape() deprecation.
- ComputeShape errors on small fraction of imageDifference quanta
- We write Parquet without compression leaving 10% savings. Each column is compressed individually.
- Configs:
    - Increase required template fraction.
- maybe issues?
    - Are the forced photometry on the diaObjects sensitive to crappy single frame WCSs. e.g. DM-30300. Need to trim on sky coords.

Tech Debt:

- Diffim Pipeline and forced phot (on object and diaobject) pipeline don't use jointcal/WCS or FGCM photocalibs.
- Post RFC-807 APDB psfFlux, and primary key to index.
- Are the WCSs in forced photometry robust to extrapolation? Use a distorted camera geom into lsstcam and then using the affine transform. How to make HSC camera geom of less problematic. DC2 has a model, distortions are not applied. there is no focal plane distortion simulated in DC2 says Dominique. Josh disagrees.
- Double check that proper Null values are used for missing patches in the object table.

Notes from team meeting Sept 22 2021.

- Moving CcdVisit and Visit to global step7 (done)
- Jeff's ticket to add the faro steps DM-31848 (tonight)
- Let's not push for the wcs=None ticket
- Major changes coming? That need to be merged AFTER the release branch is made.
    - RFC-775.
    - PIFF: 2022

Tickets for adding elements to DRP in the gen3 pipeline: including template generation, difference imaging, and association. **To track tickets we want to get in before w_2021_40 pipeline freeze for DP0.2.**

See Difference Imaging Pipeline for DP0.2 (Planning Page) for Diffim Pipeline planning specifically

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