DRP Metrics Monitoring 2021-11-01

Mondays 12pm - 12:50pm ET

Yusra's Zoom: https://princeton.zoom.us/my/yusra

Attendees:

Yusra AlSayyad

Jim Bosch

Arun Kannawadi

Christopher Waters

Clare Saunders

Colin Slater

Dan Taranu

Eli Rykoff

Fred Moolekamp

Lauren MacArthur

Andrés Alejandro Plazas Malagón

Ian Sullivan

Jeffrey Carlin

Joshua Meyers

Lee Kelvin

Matthias Wittgen

Nate Lust

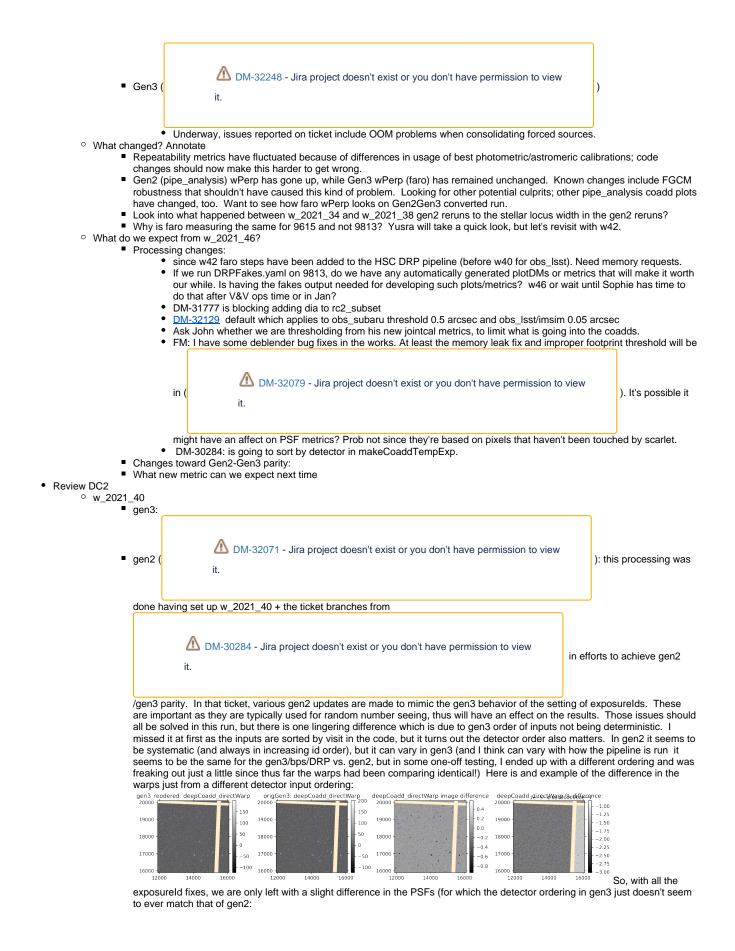
Robert Lupton

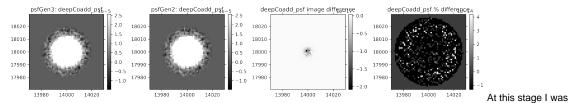
Simon Krughoff

Agenda:

- Announcements:
- Review Action items from last week
 - Action on Yusra to grab Eric M.'s logs converted to action on Lauren to make things in Eric's home directory available in public_html as needed.
 - Lee will be making new SKY calibration frames (DM-32378, instead of DM-31401), discussing with Paul et al. Previous criteria was to use nights with > 20 observation in one band to make a SKY frame, and then use the closest of those for other nights. Original ticket with this info was DM-9147. These will be native Gen3, and Gen3-only.
- Processing Status
 Review HSC RC2 r
 - Review HSC RC2 rerun w_2021_42 • What was noteworthy in this rerun?

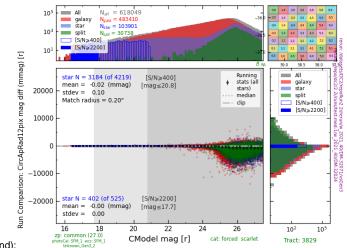
■ Gen2 (M DM-32419 - Jira project doesn't exist or you don't have permission to view it.)
•	This is getting underway and is also a w42+ run where I will be setting up the	_
	M DM-30284 - Jira project doesn't exist or you don't have permission to view it.	branches (see
	below).	



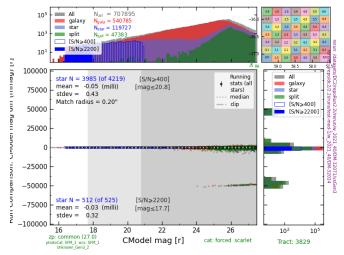


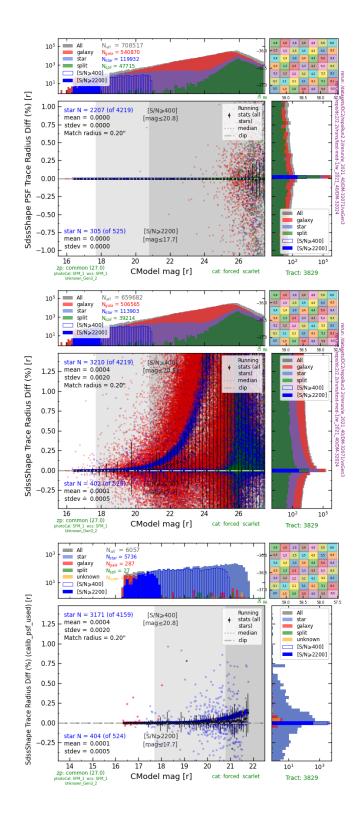
left with differences appearing in the deblender phase. Since scarlet is expected to be rather unstable in certain (numerical) circumstances, I had attributed these differences to the above tiny differences in the PSF – all other inputs are identical as far as I can glean. However, with the ordering of the detectors in gen3, I ran the coadd stages again and indeed got identical coaddPsfs...but I still get differences at the deblender stage. So, paging Fred Moolekamp as to whether he can think of any reason gen2 vs. gen3 scarlet runs could differ (again, as far as I can tell, all inputs going in with all the fixes on DM-30284 are identical).

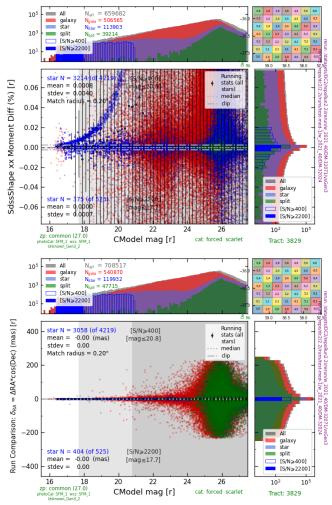
 Ok, so where are we with the current run which only suffers the above small PSF differences going in? Even better than before and at difference levels so small as to potentially be scientifically uninteresting. Direct gen2/gen3 comparison plot can be perused at https://lsst.ncsa.illinois.edu/~lauren/DC2.2i_gen2/w_2021_40/vsGen3/plots and



here are a few examples (all r-band):



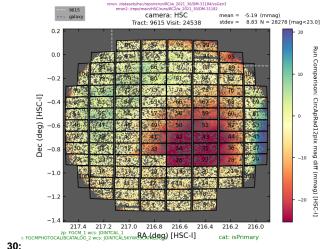




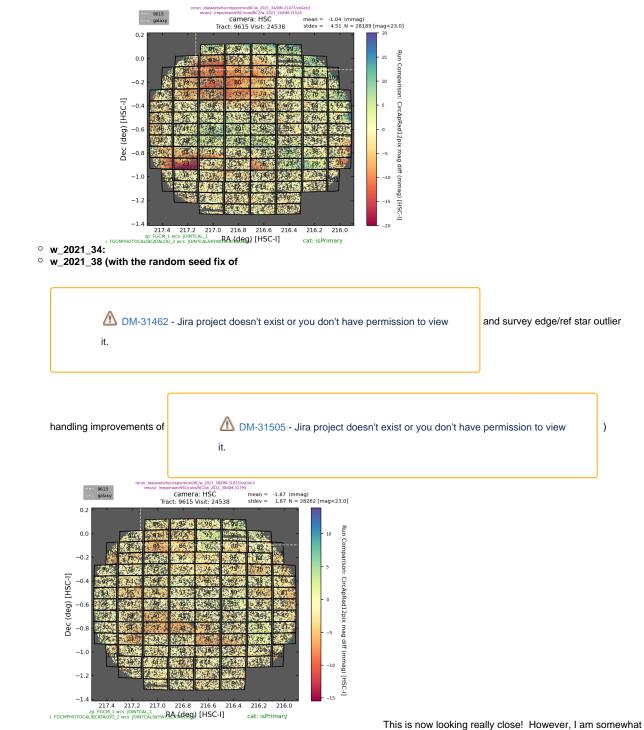
- I still feel slightly uncomfortable not knowing the root cause of these differences (and the possibility that the deblender is sensitive to some as yet unknown cause that may lead to non-reproducability), but it may be time to start considering the cost/benefit of chasing these lingering differences down.
- Gen3 Pipeline for DP0.2 (backport-v23 label)

AOB

- ° Next metrics meeting to review w46 Nov 29th after Thanksgiving will be the last of the year.
- I owe a follow-up on Eli's recent fixes to fgcm (towards parity, but also serendipitously improving on some fgcm specifics). Here is a brief
 history of gen2 vs. gen3 fgcm for one of the most problematic/red-flag visits in the RC2 dataset:







surprised that there was a jump in the stellar locus width on the w_2021_38 run – see the chronograph dashboard. I'm not aware of any other significant changes between w34 & w38 that may have impacted the stellar locus...

Action Items

Description	Due	Assignee	Task appears on
	date		

Add a plot with fakes stats to the dashboard. Sophie Reed04 Sep 2020	04 Sep 2020	Sophie Reed	DRP Metrics Monitoring 2020- 08-07
Sophie to add field in metric definition to hold thresholds. DM-43364 - Getting issue details STATUS : We need to talk about this when Sophie is back!			DRP Metrics Monitoring 2024- 04-22
Sophie to add field in metric definition to hold thresholds. DM-43364 - Getting issue details STATUS			DRP Metrics Monitoring 2024- 03-18
Clare: add analyzeMatchedVisitsCore to drp_pipe step8			DRP Metrics Monitoring 2023- 06-26
Sophie: make a new list for outstanding analysis_drp plots that require moving, send to Jim			DRP Metrics Monitoring 2023- 06-26
turn catchFailures on in calibrate. Add flag to indicate that deblender failed because PSF is bad.			DRP Metrics Monitoring 2022- 10-31
Yusra AlSayyad Eric's account was deleted; we need to make sure he has all his logs.		Yusra AlSayyad	DRP Metrics Monitoring 2021- 06-14
Arun Kannawadi Modify rho stats in pipe_analysis_to use debiased moments (see DM-30751 - Getting issue details STATUS).		Arun Kannawa di	DRP Metrics Monitoring 2021- 04-19
Investigate rho-stats an ellipticity resids in w_2020_06 post-Scarlet Arun Kannawadi Fred Moolekamp		Arun Kannawa di	DRP Metrics Monitoring 2021- 03-01
Yusra AlSayyad Do a rerun with w50 PS1 refcat and one with shrunk refcat errors.		Yusra AlSayyad	DRP Metrics Monitoring 2021- 01-04
DM-34153 - Getting issue details STATUS		Jeffrey Carlin	DRP Metrics Monitoring 2021- 01-04