DRP Metrics Monitoring 2022-12-19

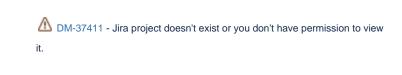
Mondays 12pm - 12:50pm ET

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

Attendees:

Agenda:

- Meeting recorder Jim Bosch (last 6 meetings were: Keith, Fred, Nate, Jeff, Clare, Arun)
- Announcements
- Review Action items from last month
 - astrometry plots (visit and coadd sky plots) now in review
 sky coverage plots (
 DM-34625 Jira project doesn't exist or you don't have permission to view it.
 piff robustification (
 DM-36930 Jira project doesn't exist or you don't have permission to view it.
 - Lauren MacArthur will make a new ticket to take over adding a check on max distance to nearest PSF star, and do it in the visit summary stat code, starting from code snippet provided by Joshua Meyers:



- some of these CCDs are salvageable
- some of these are not salvageable, and could silently cause problems downstream (maybe not FGCM, jointcal at worst weakly, definitely coadds, maybe CRs)
- this is complicated by the fact that the coadd input selection PSF checks still incorrectly use the original PSF
- Jim Bosch will add a new round of visit-summary calculation after the final PSFs, and switch back to PSFex for the initial PSFs (



- o stellar locus in 9813 is wider than other tracts (long-standing, no updates)
- Processing Status
- Review w_2022_48 rerun:
 - $^{\circ}$ "payload" errors (from tasks) now being included better in pilot logging
 - $^{\circ}\,$ same characterizelmage and calibrate failures as before
 - ~40 fewer subtractImages failures compared to last run (expected)
 - o 9697 patch 7 detection:
 - failed in _44 ("unable to evaluate coadd PSF")
 - succeeded in _48
 - thought the fix was

 it.

 DM-35722 Jira project doesn't exist or you don't have permission to view but that

landed in _38

also thought the fix might be



M-36762 - Jira project doesn't exist or you don't have permission to view

it.

but while timing is right, there's no connection from the code change to the behavior

- need to track this down to make sure it gets backported to v24
- want to check that the right version of the stack was actually used for step1 in _48
- o templates (and other things holding lots of PSFs) do indeed take half the space

△ DM-36763 - Jira project doesn't exist or you don't have permission to view.

Recall history:

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- w12: psfex
- w16: piff (bad size residuals)
- w20: finalizeCharacterize (bad apcorr configs bad stellar locus)
- w22: lanczos11 + apcorr configs (better stellar locus and size residuals approx equivalent to psfEx!
- w24: PIFF kernelSize to 25. new scarlet lite storage.
- w28: attempt at fixing measure failures:



△ DM-35722 - Jira project doesn't exist or you don't have permission to view

it.

- w32: First RC2 at SLAC. subtractImages compatibility mode on
- w36: subtractImages Compatibility mode off
- w40:
- **w**44:
- w48: 9697/7 succeeds, extra subtractImage failures gone,
- Chronograf, plot-navigator review of _48
 - "Everything looks okay"
 - But the first thing Chronograph showed us for wPerp was very strange and concerning (before picking times), and we can't get back to it now.
 - analysis_tools plots apparently failed to run
 - maybe this was expected, because we had 'u' band configured in HSC; this would have been fixed on



⚠ DM-36305 - Jira project doesn't exist or you don't have permission to view

(landed in 50)

- unclear how much (if any of this) was working prior to that ticket
- no one can explain why it ran in _44
- There will not be a _52 run. First HSC RC2 run will w _2023_02, but be prepared for surprises in tagging.
 - Expect analysis_tools object core plots should be working again.
 - Other tickets still pending, motivated by HSC PDR4 deadlines.
 - SkyObject histogram plots should have been added (landed in _49).
 - Piff performance improvements in external review, don't know when that will land.
 - fgcmcal will soon be using isolated star catalog.
 - new rho statistics plots landing soon in analysis_tools, including multi-tract plots
 - some dataset type names will be changing to be more predictable/descriptive
- · Expect a doodle for a new meeting time!
- AOB:

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△ DM-34625 - Jira project doesn't exist or you don't have permission to view.

needs input on dataset type naming

conventions and some display choices (will discuss in slack)

Action Items

De	scription	Due date	Assignee	Task appears or
	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: 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
			Jeffrey Carlin	DRP Metrics Monitoring 2021- 01-04

Jeffrey Carlin Add an absolute astrome	efcat metric to dashboard	
DM-34153 - Getting issue details	STATUS	