

2022-01-18 Science Metric Development Agenda and Meeting notes

Date

18 Jan 2022

Location

Zoom alias : <https://ls.st/rsv>

Zoom: <https://noirlab-edu.zoom.us/j/96120781994?pwd=bCtpT3Q3b2RsU1ZBRUFaSnUrZXo3Zz09#success>

Attendees

- [Leanne Guy](#)
- [Keith Bechtol](#)
- [Peter Ferguson](#)
- [Erik Dennihy](#)
- [Jeffrey Carlin](#)
- [Robert Lupton](#)

Regrets

- Simon Krughoff

Useful links

Metric tracking dashboards








- DC2 and HSC RC2 monthly reprocessing (Gen3 and Gen2/3, faro): <https://chronograf-demo.lsst.codes/sources/2/dashboards/75>
- Nightly CI (Gen3, faro): <https://chronograf-demo.lsst.codes/sources/2/dashboards/70>

Rubin science pipelines weekly change log and Github repo: https://github.com/lsst-dm/lsst_git_changelog

Status of jenkins jobs and slack channle for notifications: #dmj-s_verify_drp_metrics slack channel

Discussion items

Item	Who	Pre-meeting notes	Minutes
News, announcements and task review	All	Faro paper submitted to SPIE. Draft: dmtn-211.lsst.io . Acceptance notification from SPIE is 06 Apr 2022, so nothing more to do until then.	<ul style="list-style-type: none">• Along with other changes in Rubin leadership, there will be a reorganization of SIT-Com. Plan by the AMCR.
CI status, bugs, issues of the week	All		<ul style="list-style-type: none">• CI job has not been running for a week. There is an issue with Jenkins. Jobs so slow that they don't finish. KT is on it.• The new weekly should have the fix for non-deterministic wiggles in metric values. Since dashboard hasn't been running, Jeff is running his own tests.• When source tables are combined into a single parquet table, they are combined in a random order. Eli implemented change to enforce ordering by detector so that repeatable. Before fix, FGCM was getting slightly different calibrations each run. The algorithms have an order dependence.<ul style="list-style-type: none">◦ This gives us a sense of the systematic floor of the algorithms• Separate issues. Require 50 repeated measurements to compute photometric repeatability. Jeff will change configuration for the CI jobs to be 20. yaml configs.

Faro Development status	Leanne Guy	<ul style="list-style-type: none"> Fall 2021 epic <div>  DM-30748 - Jira project doesn't exist or you don't have permission to view it. </div> Backlog epic: <div>  DM-29525 - Jira project doesn't exist or you don't have permission to view it. </div> Progress on conversion to parquet 	<ul style="list-style-type: none"> Last week merged ticket so that refcat loader gives a single merged dataframe that includes refcat columns + proper motion corrected astrometry and color-term-corrected photometry Dan Taranu had developed a matcher. To use, we would do matching before the measurement task <div>  DM-32034 - Jira project doesn't exist or you don't have permission to view it. </div> Jeff and Peter working on selectors. There is PR. Once this is merged we can finish converting metrics to use parquet format <div>  DM-32611 - Jira project doesn't exist or you don't have permission to view it. </div> ATLAS REFCAT2 RFC. General support to move forward. Closes tomorrow. Already shared up in the desired format.
Data processing campaigns	Jeffrey Carlin Keith Bechtol	<ul style="list-style-type: none"> RC2/DC2 reprocessing epic : <div>  DM-26911 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> w_2021_40 RC2: <div>  DM-32248 </div> <div>- Jira project doesn't exist or you don't have permission to view it.</div> w_2021_44 DC2 : <div>  DM-32391 <div>- Jira project doesn't exist or you don't have permission to view it.</div> </div> AuxTel AP/DiffIm 	
DP0.2	Colin Slater Leanne Guy	Faro for DP0.2	
AOB	Leanne Guy	Potential co-working session ideas here	Next meeting 25 Jan 2022 Homework task for everyone to take a look at tickets from the previous development epic and we'll do a big review of status + planning for new development cycle next week.

List of tasks (Confluence)

Description	Due date	Assignee	Task appears on
<input type="checkbox"/> Leanne Guy to talk to Science Pipelines (Yusra) about when do this transfer 19 Oct 2021	19 Oct 2021	Leanne Guy	2021-09-28 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Leanne Guy arrange to disucss at a future meeting if there are metrics from PDR3 & this paper that we might want to include in faro. 26 Oct 2021	26 Oct 2021	Leanne Guy	2021-08-31 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Colin to ask about capturing ideas for improvement to the stellar locus algorithm 30 Nov 2021	30 Nov 2021		2021-11-09 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Colin Slater to make a preliminary draft agenda for a workshop to clarify visualization use cases for science verification and validation		Colin Slater	2022-04-19 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Jeffrey Carlin to review metric specification package organization and the relationship to formal requirements documents		Jeffrey Carlin	2022-04-19 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Keith Bechtol Schedule a time to have focused discussion on verification package, potentially next status meeting		Keith Bechtol	2021-09-14 Science Metric Development Agenda and Meeting notes
<input type="checkbox"/> Keith Bechtol to make a ticket to better understand mapping of these camera and calibration products characterization efforts to verification documents and the focus of these efforts. Discuss with the SCLT		Keith Bechtol	2021-09-14 Science Metric Development Agenda and Meeting notes