

2022-01-25 Science Metric Development Agenda and Meeting notes

Date

25 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

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		
CI status, bugs, issues of the week	All	<ul style="list-style-type: none">• Discussion on slack about wPerp requiring a large amount of memory: https://lsstc.slack.com/archives/C011E3ZUZAB/p1643131727008000	<ul style="list-style-type: none">• wPerp. This does not seem to be a multimatch issue. We need a ticket for wPerp specifically. There may be a short term fix.<ul style="list-style-type: none">✓ Jeffrey Carlin to make a ticket for wPerp issue and add Yusra as watcher 25 Jan 2022 .• Separate issue with multimatch. Consumes large amount of memory. Our proposed solution is communicating that the fix is on the way. In parallel, we need to make progress on parquet conversion of the catalog matching.<ul style="list-style-type: none">✓ Jeffrey Carlin to try the backport to make a minimal change to add filtering prior to catalog matching, still using the FITS catalog inputs (see DM-26987). Assess feasibility to make the backport. 28 Jan 2022• JIRA ticket for multimatch• The parquet conversion involves a few steps<ul style="list-style-type: none">◦ Merge the current selectors PR◦ Improvements to catalog matching<ul style="list-style-type: none">▪ Shorter term fixes:<ul style="list-style-type: none">• Use column store• Filtering on sources▪ There is a longer term issue of matching algorithm. Tasks should have an outer layer that speaks butler, and an inner layer that works with in-memory objects.◦ Converting other metrics to use parquet inputs• Back porting to v23 processing. The deadline is in a few days.• We have an option to turn off faro for DP0.2 processing

Faro Development status	Leanne Guy	<ul style="list-style-type: none"> Fall 2021 epic <div data-bbox="391 178 764 428">  DM-30748 - Jira project doesn't exist or you don't have permission to view it. </div> Spring 2022 epic <div data-bbox="391 449 764 699">  DM-33385 - Jira project doesn't exist or you don't have permission to view it. </div> Backlog epic: <div data-bbox="391 741 764 991">  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"> In-progress and ToDo tickets have been moved to the new S22 epic. There are 3 remaining tickets to be closed out (currently In Review or Reviewed) in the F21 epic, then we can close out the f21 epic. Status of selectors PR (DM-32611) <ul style="list-style-type: none"> Building off of selector actions Introducing base class for measurement configs to specify the columns to be loaded from the parquet tables in a more straightforward way. May want to consult with Jim whether this belongs with pexConfig before merging into faro.
Data processing campaigns	Jeffrey Carlin Keith Bechtol	<ul style="list-style-type: none"> RC2/DC2 reprocessing epic : <div data-bbox="391 1087 764 1337">  DM-26911 - Jira project doesn't exist or you don't have permission to view it. </div> <div data-bbox="407 1394 574 1419">◦ w_2021_40 RC2:</div> <div data-bbox="583 1341 761 1467">  </div> <div data-bbox="428 1467 748 1514">DM-32248 - Jira project doesn't exist or you don't have permission to view it.</div> <div data-bbox="407 1514 574 1539">◦ w_2021_44 DC2 :</div> <div data-bbox="431 1535 764 1785">  DM-32391 - Jira project doesn't exist or you don't have permission to view it. </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 01 Feb 2022

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 discuss 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