

2021-11-23 Science Metric Development Agenda and Meeting notes

Date

23 Nov 2021

Location

Browser	Room System	Phone Dial-in
https://bluejeans.com/690803707 or https://ls.st/rsv	1. Dial: 199.48.152.152 or bjn.vc 2. Enter Meeting ID: 690803707 -or- use the pairing code	Dial-in numbers: <ul style="list-style-type: none">+1 408 740 7256+1 888 240 2560 (US Toll Free)+1 408 317 9253 (Alternate Number) Meeting ID: 690803707

Attendees

- [Leanne Guy](#)
- [Colin Slater](#)
- [Peter Ferguson](#)
- [Keith Bechtol](#)
- [Simon Krughoff](#)
- [Erik Dennihy](#)

Regrets

- [Jeffrey Carlin](#) (Vacation)

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		<ul style="list-style-type: none">• Move to zoom from next week. We will use the existing zoom channel.• Co-work - look to merge with pipelines• Thought about feature requests will assess influx 2 first and then look at what features we would like but that are not present. Alerts are in influx 2.0 which will be useful.
CI status, bugs, issues of the week	All	<ul style="list-style-type: none">• verify_drp_metrics CI jobs	<ul style="list-style-type: none">• Much variation in metrics in the last 7 days in AM/PA/TE metrics• Unlikely that there is a ticket commit every daya that led to this• Check input catalogs to faro first to check that the input columns are stable - CI intermediate data products are persisted• Checkout daily and see if we even get the same numbers.

<p>Faro Develop ment status</p>	<p>Leanne Guy</p>	<ul style="list-style-type: none">Fall 2021 epic<div data-bbox="355 178 604 585"> DM-30748 - Jira project doesn't exist or you don't have permission to view it.</div>Backlog epic:<div data-bbox="355 630 604 1037"> 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">Parquet conversion - tickets assigned to convert all the metrics that need matched catalogs as input. Base classes that used the forced photometry table will not be able to handle AM repeatability metrics due to fixed centroid, so cannot compare the astrometric solution. Need a new catalog matcher that takes the per-visit source catalogs. Keith planning to do this in the next week<ul style="list-style-type: none">The need to match the source catalogs for astrometric repeatability raises the N-way matcher topic again. One solution would be to use the object table as the reference and do matches of source catalogs against the object table, effectively associating sources with an object id.TEx conversions - Erik & Jeff have it running for all analysis contexts.<ul style="list-style-type: none">Multiples found in the output table of a multimatch selection of individual visits. Erik to look into it.TEx algorithm convert to accept parquet as input. Verified with FITS.Ready for a PRPF: Comparison to truth table reference catalogsComparison with refcats that are not part of the regular processing (e.g Gaia, Pan-STARRS), look to implement a simple metric to understand the process of working with any refcat in the butler context. presentation link DM-31985
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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>  D </div> M-32248 - Jira project doesn't exist or you don't have permission to view it. w_2021_44 DC2 : <div>  D </div> M-32391 - Jira project doesn't exist or you don't have permission to view it. AuxTel AP/DiffIm 	<ul style="list-style-type: none"> Erik: Merlin has finished a first run through of AuxTel data to handle SF processing. Handed over instructions. Keith ran to completion (see discussion here). Will start processing AuxTel data. <ul style="list-style-type: none"> Data is at NCSA, latiss data repo Can we move to Antu for processing. Erik will ping RHL on this. Goal is to have near real-time processing at summit
DP0.2	Colin Slater Leanne Guy	Faro for DP0.2	<ul style="list-style-type: none"> Still working on SF processing sign-off
AOB	Leanne Guy	Potential co-working session ideas here	Last meeting of 2021 on 14 December. Meet again in 18 January 2022

List of tasks (Confluence)

Description	Due date	Assignee	Task appears on
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<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