

2022-02-01 Science Metric Development Agenda and Meeting notes

Date

01 Feb 2022

Location

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

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

Attendees

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	<p>Review of action items from last week:</p> <ul style="list-style-type: none">• Filtering before matching. This has been waiting on . All activity has been killed on NCSA machines.<ul style="list-style-type: none">◦ Failure mode. Introducing new matched catalogs made CI jobs break. If jenkins job completes today, we should be able to merge.• wPerp switching over to using parquet tables. Jeff has started working on a ticket branch. Needs the data selectors to be merged first.<ul style="list-style-type: none">◦ Discussed with Sophie Reed. Would like to adopt faro as the place where algorithms for calculating metrics live. Port functions into faro. Will need to confirm with Yusra. Don't expect problems. Is there an issue with duplicating selectors? The ones we have implemented so far in faro are similar to analysis_drp, but more general. <p>What is the order of operations:</p> <p>Matching before filtering in FITS input is separate and trying to finish ASAP.</p> <p>Selectors is a per-requisite for the wPerp fix.</p> <p>Asking Sophie to review the selectors ticket. Keith will also take a look.</p> <p>Jeff noticed that metric values shift by about 5% (in both directions) after the filtering before matching. We are keeping more data because we are throwing out fewer objects due to a single problematic measurement.</p> <p>We should make sure that we have the capability to diagnose the behavior when</p>

Faro Development status	Leanne Guy	<ul style="list-style-type: none"> Fall 2021 epic <div data-bbox="363 178 657 506">  DM-30748 - Jira project doesn't exist or you don't have permission to view it. </div> Spring 2022 epic <div data-bbox="363 529 657 856">  DM-33385 - Jira project doesn't exist or you don't have permission to view it. </div> Backlog epic: <div data-bbox="363 900 657 1228">  DM-29525 - Jira project doesn't exist or you don't have permission to view it. </div> Progress on conversion to parquet 	<p>v23 will be cut this afternoon. Would not be unexpected to cut of v23.0.2. We still want wPerp by step 5. French group wants this and we want to be able to have it available as an option to backport.</p> <p>"freeze-drying bugs". Capture enough information to be able to do full interactive exploration.</p> <p>ATLAS REFCAT 2 suited for shallower AuxTel data</p> <p>DELVE. Is this our plan going into ComCam commissioning?</p> <p>Who is responsible for</p> <ul style="list-style-type: none"> identifying needed refcats processing commissioning data maintaining refcats <p>SIT-Com will drive the definition of needs, and may need to take on some of these tasks in practice. It will also need to have an operations role and name if these are activities that will be continued into operations.</p> <p>Here is the current delve coverage, if having full grip coverage is vital we could try an prioritize that over the next few months https://data.darkenergysurvey.org/fnalmisc/decam_coverage.png</p>
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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>  DM-32248 - Jira project doesn't exist or you don't have permission to view it. </div> w_2021_44 DC2 : <div>  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 08 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