

2022-04-05 Science Metric Development Agenda and Meeting notes

Date

05 Apr 2022

Location

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

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

Attendees

- Keith Bechtol
- Leanne Guy
- Robert Lupton
- Keith Bechtol
- Peter Ferguson
- Erik Dennihy

Regrets

- Jeffrey Carlin

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">• 3rd Data Facilities Planning Workshop - 2022-04-05/07 ongoing this week. Issues with faro resource usage raised.<ul style="list-style-type: none">◦ This is the old issue that will be solved by parquet inputs conversion | <p>Computing clusters / data facilities</p> <ul style="list-style-type: none">• Rubin construction effort at NCSA will be shutting down 15 August 2022. Machines will be shipped out. A few people from NCSA will continue into LSST Operations. We will want to migrate work. Datasets will be migrated in a planned manner• SLAC is looking to be ready at end of July. SLAC will do full reprocessing at HSC PDR3. SLAC USDF will support commissioning activities. Not exactly clear when AuxTel data processing will transition to USDF.<ul style="list-style-type: none">◦ USDF has understanding that it is responsible for commissioning, including AuxTel• Data Previews at IDF• Prompt Processing Prototype at IDF. Mainly for development purposes with intent to switch to using USDF.• Relationship with Antu <p>☑ Colin Slater Follow up with Fritz to check status of USDF readiness for AuxTel data 12 Apr 2022</p> |
| CI status, bugs, issues of the week | All | <ul style="list-style-type: none">• Piff turn on resulted in small changes in metric values | <ul style="list-style-type: none">• Most metric values changed between 30 and 31 March.• Questions of exactly what changed and how would we know. Star selection? Measurements of photometry? We currently don't have quick ways of diagnosing. |

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|---------------------------|------------------------------|---|--|
| Faro Development status | Leanne Guy | <ul style="list-style-type: none"> Spring 2022 epic <div>  DM-33385 - 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"> Status of DM pipeline tickets <ul style="list-style-type: none"> Bug in the application of zeropoints to source catalogs resolved <div>  DM-34019 - Jira project doesn't exist or you don't have permission to view it. </div> Feature: Photometric and astrometric corrections applied to source catalogs <div>  DM-33959 - Jira project doesn't exist or you don't have permission to view it. </div> Performance metrics to support AuxTel imaging campaigns <ul style="list-style-type: none"> Example diagnostics from image quality team More ideas for single-visit performance metrics starting to collect in FAFF context Comparison with metadata and pixel-level image data? In a commissioning context, there are specific drivers for automated analyses that compare quantities from source catalogs and other sources |
| 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 (Erik Dennihy) AP/DiffIm | <ul style="list-style-type: none"> Erik developed a workflow - a ticket is written prior to each run, lays out scheduler conditions, etc. Followup ticket in SITCOM prj. to track the details - source collections, etc. <ul style="list-style-type: none"> Example ticket of imaging survey observing requests - <div>  CAP-868 - Jira project doesn't exist or you don't have permission to view it. </div> Example ticket of imaging survey data processing - <div>  SITCOM-253 - Jira project doesn't exist or you don't have permission to view it. </div> |
| DP0.2 | Colin Slater | | |
| AOB | Leanne Guy | Potential co-working session ideas here | <p>Next meeting 12 Apr 2022</p> <p>Faro work planning meeting is scheduled for next week. Please add your thoughts to 2022-04-12 Science Verification - Planning Meeting Agenda and Meeting notes so that we can make most efficient use of the meeting time</p> |

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"/> 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"/> 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"/> 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 |