

2021-07-13 Science Metric Development Agenda and Meeting notes

Date

13 Jul 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](#)
- [Keith Bechtol](#)
- [Robert Lupton](#)

Regrets



Metric Tracking Dashboard

URL:

Discussion items

Item	Who	Pre-meeting notes	Notes and Action Items
News, announcements and task review	Leanne Guy		<p>Tasks</p> <ul style="list-style-type: none">• Gen 3 results in the CMR this time with a note that this is the last time. Will probably continue this until we have pipelines full parity• Schedule Dan from early August.• RHL has a draft of a notebook out of Chris - will pass on details to Simon when there are more <p>AO for community engagement with commissining out – good interest.</p> <ul style="list-style-type: none">• Interest from DESC See #desc-announce, not sure about other SCs yet.

Bugs, issues, topics, etc of the week	All	<ul style="list-style-type: none"> Use of logger in faro . Some guidelines have emerged from work on <div>  DM-31016 - Jira project doesn't exist or you don't have permission to view it. </div> Do not use <code>lsst.log</code>, use python 'logging' instead. See an example in 'separations.py' <ul style="list-style-type: none"> <pre>import logging log = logging.getLogger(__name__) log.debug("No matching visits " "found for objs: %d and %d" % obj1, obj2)</pre> Except if a class is using 'Task' - then the logger that is attached to each 'Task'; should be used. e.g 'self.log.info()'. See example in 'TractMeasurementTask' <ul style="list-style-type: none"> <pre>class TExTask(Task): ... self.log.info("Measuring %s", metricName)</pre> Do not use "f-strings" in any log call 😞 'Task' has been set to use % formatting and at the log handler level, f-string and % formatting cannot be mixed. This only applies to logging. f strings can be used elsewhere. Use , <code>self.log.info("my message %s", message)</code> and not <code>self.log.info("my message %s" % (message))</code>. See also <div>  RFC-783 - Jira project doesn't exist or you don't have permission to view it. </div> 	<ul style="list-style-type: none"> The developer guide does not explain all of this Define convention for loggers, e.g "faro.method" Do not use print statements at all in faro <p>✓ Leanne GuyCreat a ticket to update developer guide. 20 Jul 2021</p>
Reprocessing status and metrics review	Jeffrey Carlin Keith Bechtol	<p>Dashboards can be found here: https://chronograf-demo.lsst.codes/sources/2/dashboards</p> <p>Monthly reprocessing:</p> <ul style="list-style-type: none"> DRP metrics monthly Gen 2 (HSC RC2) Where is the Gen3 squash dashboard - follow up with Yusra Get the new test dataset running and metrics into a dashboard (or add to existing) in squash 	<ul style="list-style-type: none"> Still no faro metrics being written to squash – need to address the bug first. Specify dates in <code>dispatch_verify</code> (<code>lsst_verify</code>) for upload to squash. Default is the time the job was run. Lack of provenance. What about a sandbox dashboard to test <code>dispatch_verify/dev</code>? <p>✓ Simon Krughoffto ask what happened to the sandbox dashboard. 20 Jul 2021</p>

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> <ul style="list-style-type: none"> Backlog epic: <div>  DM-29525 - Jira project doesn't exist or you don't have permission to view it. </div>	<ul style="list-style-type: none"> DM-31013 : NaNs being reported by all metrics. Problem with validation datasets - FGCM format changed? jeff will look at it Keith been working on switching to using parquet tables DM-26214. <ul style="list-style-type: none"> Has switched to src table for single detector metrics. Very fast. Per visit and per detector src catalogs only so far. Implemented as additional base classes rather than replacing old. Complete this PR first then move to implementation of using parquet in the remainder of the code DM-30748: Reference catalogs <ul style="list-style-type: none"> Gen 3 magic - will give the dataids associated with the shards that overlap the spatial region of the quantum being computed. So no need to load the whole reference catalogs! Access spatial info, timestamp of visit from the dataid associated with the quantum. Can then apply the correct proper motion. Can now proceed to implementing all metrics that require comparison to external catalogs. Simon has run DRP pipelines on reduced dataset. Can get through coadd and coadd measurement. One patch with complete coverage in all bands. Issue is time - 240 mins for SFP. Maybe not a nightly reprocessing. Deblending and measurement is time consuming. So we have a coherent dataset that can be run fully but time is an issue. <ul style="list-style-type: none"> Starting repo 15GB .
AOB	Leanne Guy	Next meeting 2021-07-06	

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

