

2021-11-30 Science Metric Development Agenda and Meeting notes

Date

30 Nov 2021

Location

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

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

Attendees

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

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">• verify_drp_metrics CI jobs• Check variation in metrics seen last week	<ul style="list-style-type: none">• Fluctuation still being seen in several metrics - strongly suspect this is due to fixes made to make CI work again a few weeks ago.• Fixes were made to the pipeline in in rc2_subset - https://github.com/lsst-dm/rc2_subset (pipelines directory). Was made to inherit as much as possible from obs_subaru.• Jeffrey Carlin will look into this.• Nulls don't make it to influx so can't alert on these from influx• Setup some sort of sanity check of our outputs to alert on metrics not computed.• We will use the same jenkins channel to send these alerts to.

Faro Development status	Leanne Guy	<ul style="list-style-type: none"> Fall 2021 epic <div data-bbox="370 178 673 468">  DM-30748 - Jira project doesn't exist or you don't have permission to view it. </div> Backlog epic: <div data-bbox="370 510 673 800">  DM-29525 - Jira project doesn't exist or you don't have permission to view it. </div> Progress on conversion to parquet TeX conversions 	<ul style="list-style-type: none"> KB: No updates on astrometry JC & ED looked at the TE1 metric diff at the tract level. Were calculating from deep_coadd_ForcedSource table and the comparison we should do is from deep_coadd_meas table KB: how should we know this and find the doc? JC: dug through the yaml policy defs for converting to parquet. CTS: schema Browser https://dm.isst.org/sdm_schemas/browser/ <ul style="list-style-type: none"> Units should be described in the schema browser CTS found bug in html conversion p units are in the yaml file for HSC <div data-bbox="781 346 1485 514">  DM-32749 - Jira project doesn't exist or you don't have permission to view it. </div> <p><input checked="" type="checkbox"/> Colin Slater and Leanne Guy to work out how to proceed 31 Dec 2021</p> <p>TeX metric conversions:</p> <ul style="list-style-type: none"> Changed the default to use deep_coadd_meas in the base classes. This has mostly fixed the differences seen in comparison with the parquet tables. Still seeing small differences. Ready for internal team review. Will ask someone in pipelines to review the implementation of the TEx algorithm, once the internal code change review is done <p>PF:</p> <ul style="list-style-type: none"> close to done with AA1 metric - needs the filtering SNR/flag filtering to be updated to work with the parquet format. <div data-bbox="737 835 1485 1003">  DM-32611 - Jira project doesn't exist or you don't have permission to view it. </div> <ul style="list-style-type: none"> mostly done with comparison with a completely external catalogue. PoC level. RHL- take care about problems with the outside catalogues
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<ul style="list-style-type: none"> 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> <ul style="list-style-type: none"> w_2021_44 DC2 : <div>  DM-32391 - Jira project doesn't exist or you don't have permission to view it. </div> AuxTel AP/Diffilm 	<ul style="list-style-type: none"> AuxTel data reduction is proceeding, currently tweaking PSFEX parameters with Merlin to handle both dense and sparse imaging fields. Next AuxTel run is Dec 6-9, we should have a chance to get another set of imaging data then. Should discuss benefits of adding r' filter of same field before it sets AuxTel is shallower so some exposures cannot be processed out of the box due to fewer stars What is the process to ask deep technical questions and process questions? What channels should be used for what? rubinobs-sitcom-surveys v rubinobs-science-verification <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Keith Bechtol Leanne Guy Robert Lupton to take the question of how we run sitcom surveys to scit 14 Dec 2021 <input checked="" type="checkbox"/> Keith Bechtol Leanne Guy to clarify use of rubinobs-sitcom-surveys v rubinobs-science-verification 14 Dec 2021
DP0.2	Colin Slater Leanne Guy	Faro for DP0.2	No news
AOB	Leanne Guy	Potential co-working session ideas here	JOR review tomorrow - some people will not be at cowork Last meeting of 2021 on 14 December. Meet again in 18 January 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 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