

The background of the slide is a dark blue color with a faint, light blue technical drawing of a circular structure, likely a telescope or observatory dome. The drawing shows concentric circles, radial lines, and various mechanical components.

Second/Third OPS Rehearsals

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First OPS Rehearsal



Occurred: April 2019

Dataset:

- DC2 subset intersecting a single patch with data from 5 bands
- O(200) raft images per night

Personnel:

- Blum, Serio, MacArthur, Gruendl, Morganson

Processing:

- Gen2 + singleFrameDriver + QA

Note:

- transfer, ingest, processing, QA all initiated manually

Second OPS Rehearsal



Nominally to better understand the communications and processes that are needed among distributed staff/facilities in support of facility commissioning with ComCam will occur.

What "real" systems can be exercised in a rehearsal depends on the availability of emerging components (hardware and software).

Personnel needs:

- Commissioning team
- Science Operations team
- Data Facility team

Data Options (**depends on time-frame for rehearsal**):

1. "real" AuxTel/LATISS imaging data?
2. "real" ComCam testbench data (from Tucson or Summit)?
3. Simulated Data (e.g. subset of DC2i)?

Second OPS Rehearsal



What can be tested:

- Data Transfer (summit to base... or summit to NCSA):
 - Most likely by rsync, and possibly to an OODS at base
 - Currently expect 40 Mb/s? (summit to NCSA)
- Processing pipelines
 - Assumes a basic pipeline is ready for LATISS
 - Could alternatively exercise CPP for ComCam
 - Given current development (and timing) this may or may not be Gen3-driven
 - We could attempt to have automatic ingestion and processing with results placed in an LSP
 - Although this may have some delays because I doubt we can assume full DAQ functionality with processing command-able from OCS/CCS

Where the Precursors Currently Stand

Item	Owner	Status
Designate Personnel	O'Mullane/Blum/TCAMS?	Would suggest 3-4 per team (commission, SciOps/QA, LDF)
Dataset	Gruendl/Krughoff	LATISS (on-sky) ComCam (bench) DC2 (simulated)
DAQ/OODS	???	(probably includes a shim to process on arrival)
Long Haul Networks	Kantor	40 MB/s
Test Instance DBB	Butler/Gower	
Test Batch Production	Butler/Gower	Gen2 or 3?
Precursor Pipelines	Merlin (for LATISS)?	Other?
Science Platform	Dubois-Felsmann	As-is OK?

Third OPS Rehearsal



Nominally to provide for operations in support of facility commissioning of LSSTCam

Rehearsal Outline



Can shift timing so that normal working hours used while mocking operations:

- (ObsOps): Mock transmit cals to LDF for ingest and processing
- (LDF): Generate nightly calibrations
- (All): Afternoon standup operations meeting
- (SciOps): Select configuration and calibrations
- (ObsOps): Mock transmit nightly science exposures
- (LDF): Run science pipeline
- (LDF): Generate QA/feedback on processing (for next stand-up)
- (SciOps): Examine input/output products from observations
- (SciOps): Generate QA/feedback on processing (for next stand-up)
- (All): Monitor progress of nightly “campaigns” characterize, assess failures, diagnose issues, generate problem backlog
- (All): Create Nightly report
- Repeat (3 times?)

Final standup meeting to assess current status



