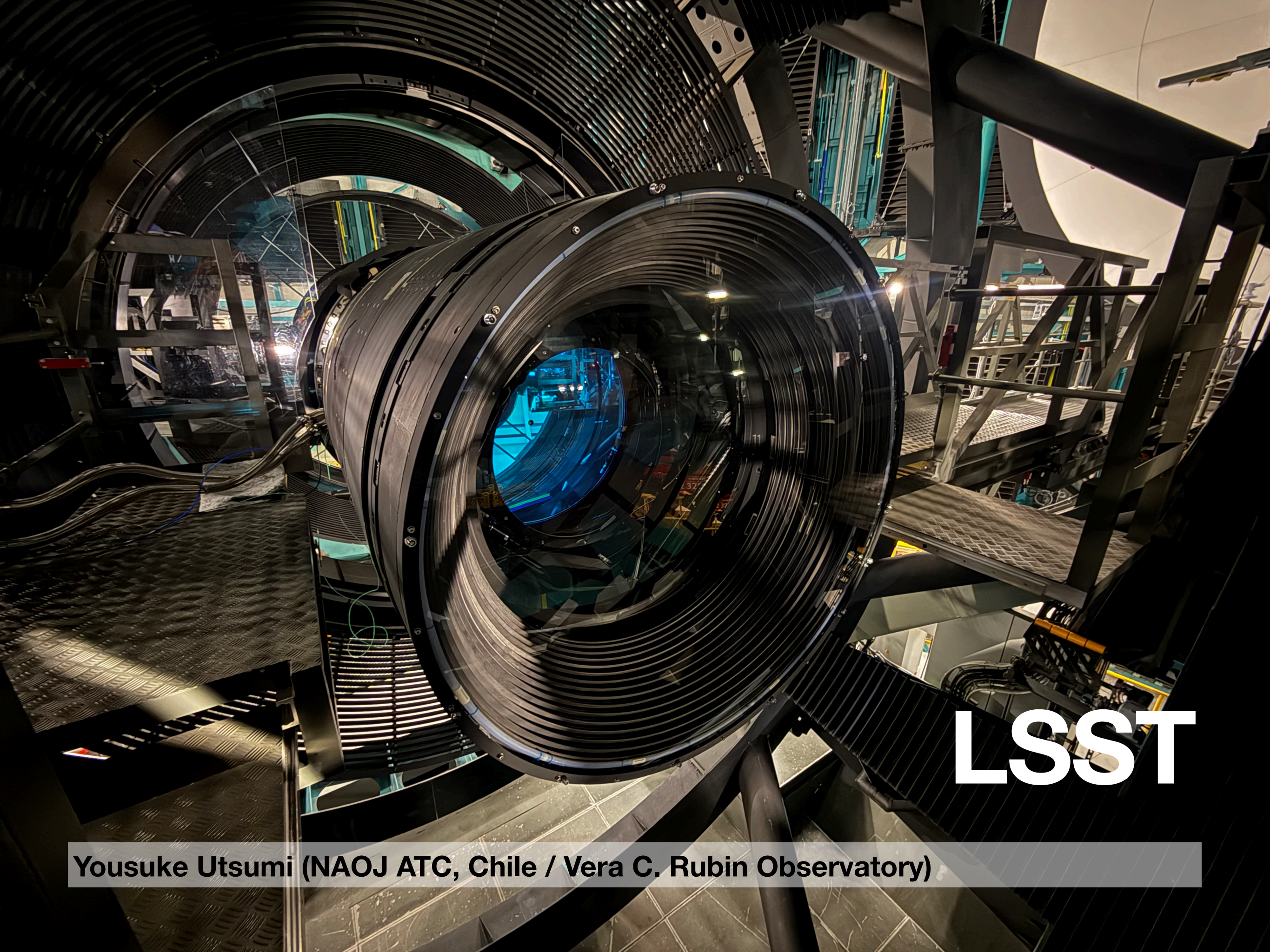


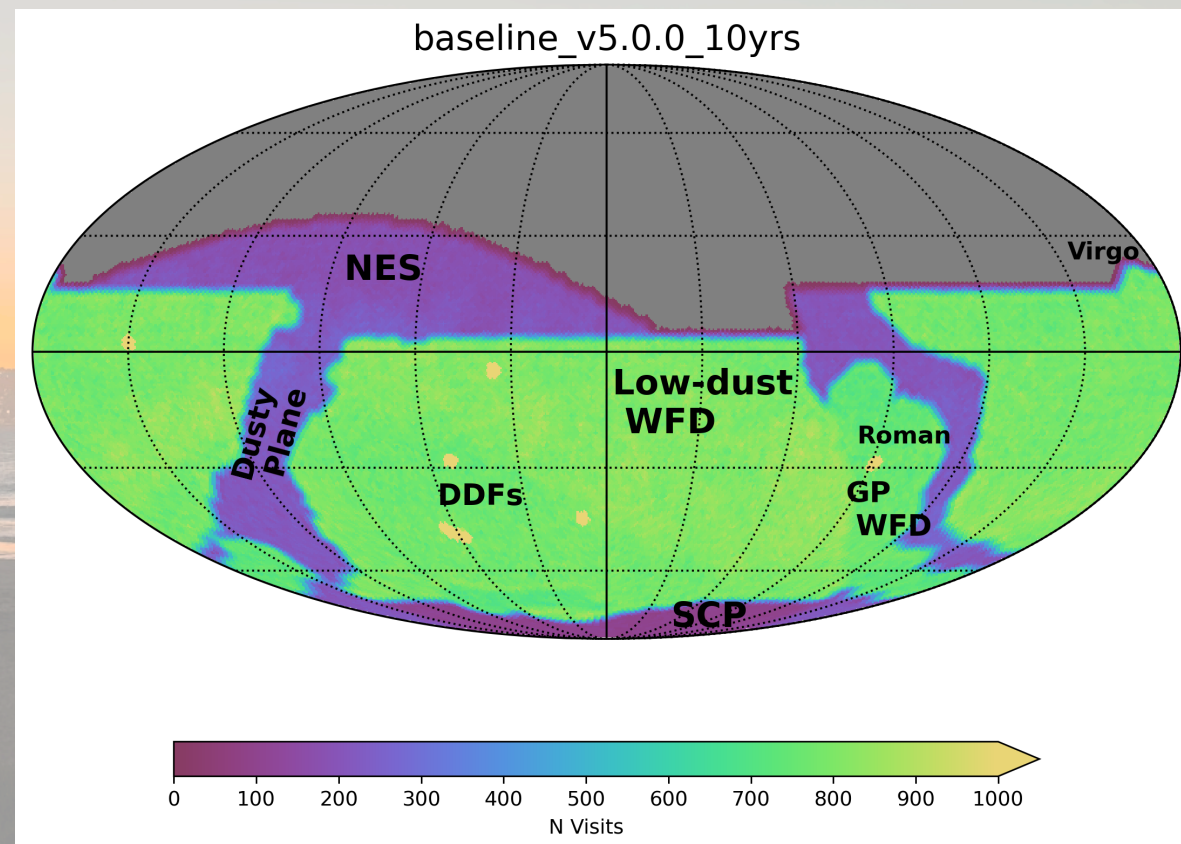
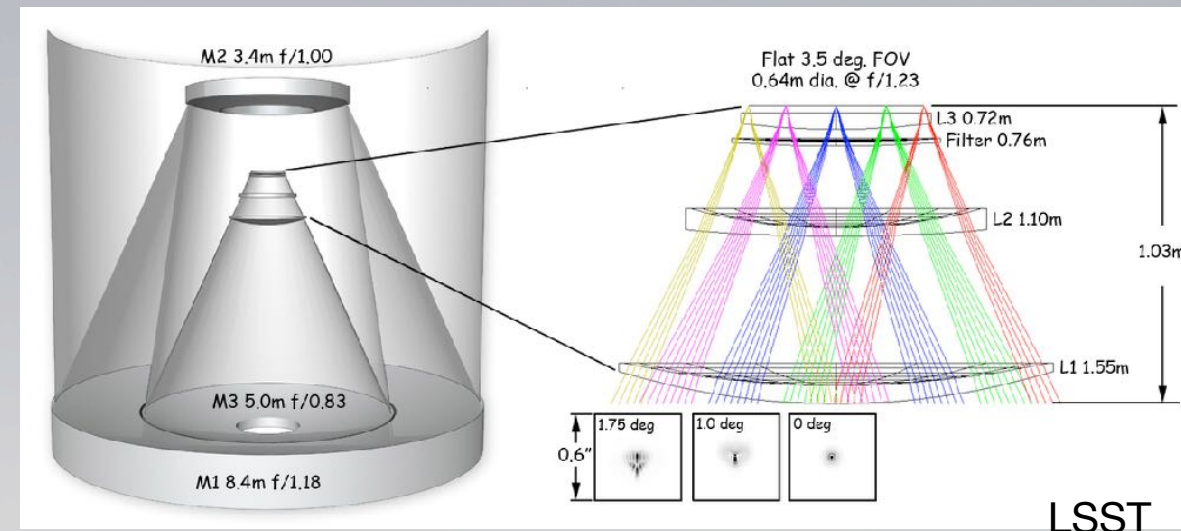


LSST

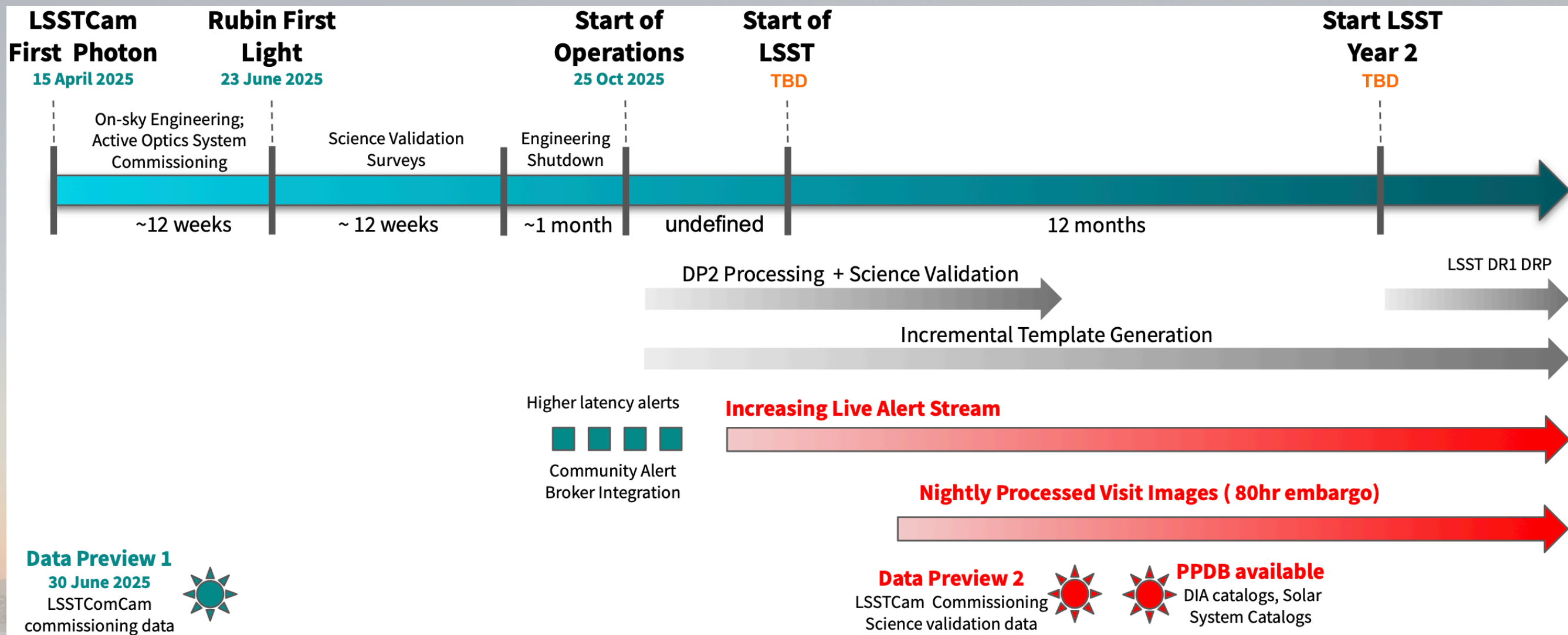
Yousuke Utsumi (NAOJ ATC, Chile / Vera C. Rubin Observatory)

Vera C. Rubin Observatory's LSST survey

- 8.4m dedicated telescope in Chile
 - Charles Simonyi Telescope
 - 3 Mirror systems (F/0.83)
 - 3.5deg in diameter
- LSST Camera
 - 201 CCDs; 3.2G pixels in total
 - ~3 sec readout (2 sec capable)
 - 3 lenses
 - ugrizy “curved” filters
- “Legacy Survey of Space and Time”
 - 10 years southern sky survey
 - Deep ~ 26.8 mag
 - Wide ~ 20000deg²
 - Fast ~ 800 visits per field
 - “Well-understood source catalog of stars and galaxies”



Completed commissioning & ongoing Early operations activities

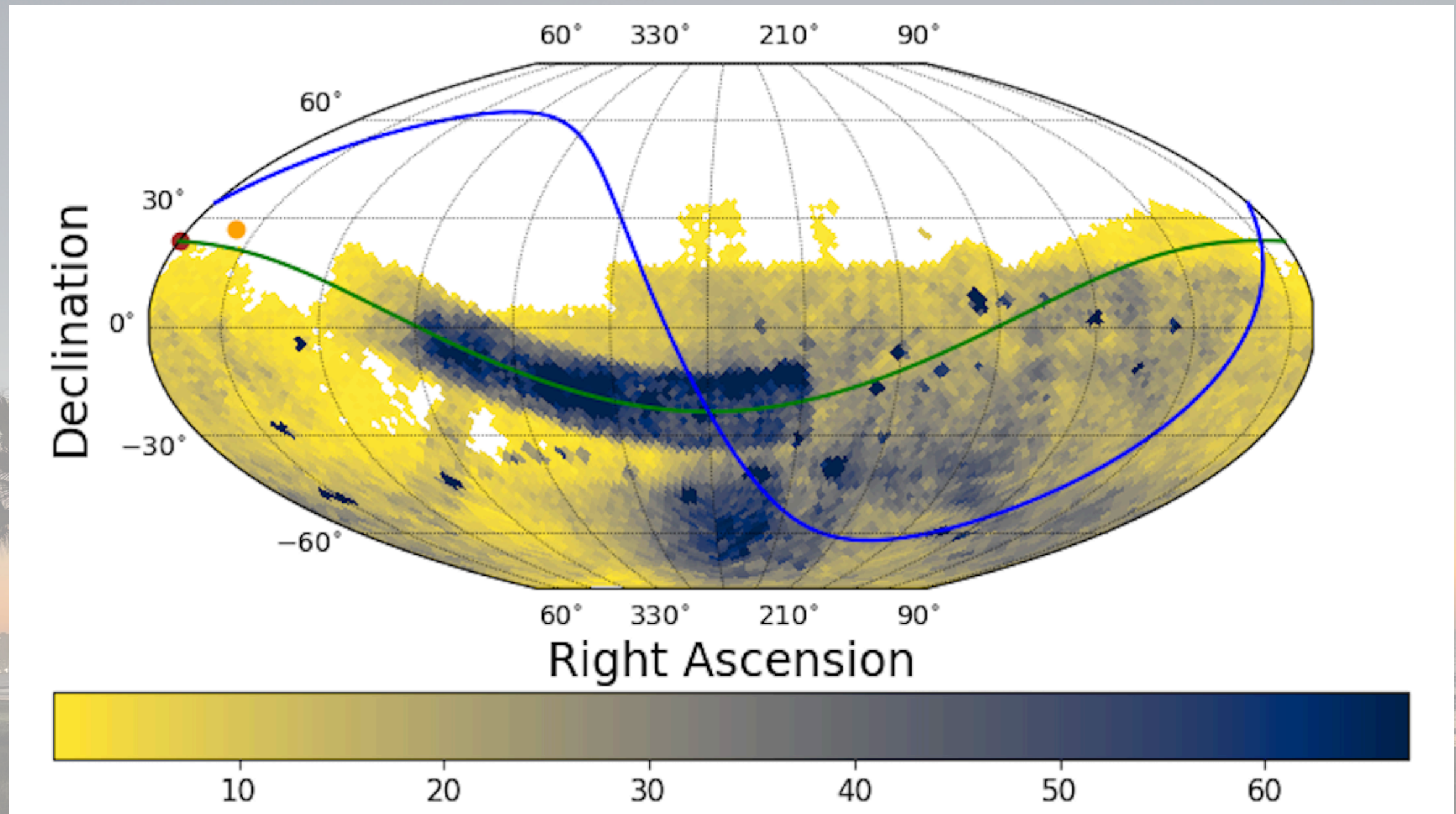


<https://rtn-011.lsst.io>

Challenges

- **Delivered image quality**
 - “A Rubin Observatory record for delivered image quality was achieved on 18 April with PSF FWHM below ~ 0.6 arcseconds across the full field of view during an AOS closed-loop stability test at fixed telescope pointing.”
—2026-04-24 Early Operations Update
- **Infrastructure**
 - Coolant (Glycol and Dynalene) flow reliability
- **Seasonal difficulties**
 - Camera Cryogenic refrigeration temperature sensitivity
 - The root cause has been understood
 - A couple of mitigations has been made
 - Condensation along coolant lines
- **Vacuum leak**
 - A repair has been made
- **Dome**
 - Light-wind screen has been installed
- **Telescope**
 - Communication reliability has been improved

LSST like observations by June 13



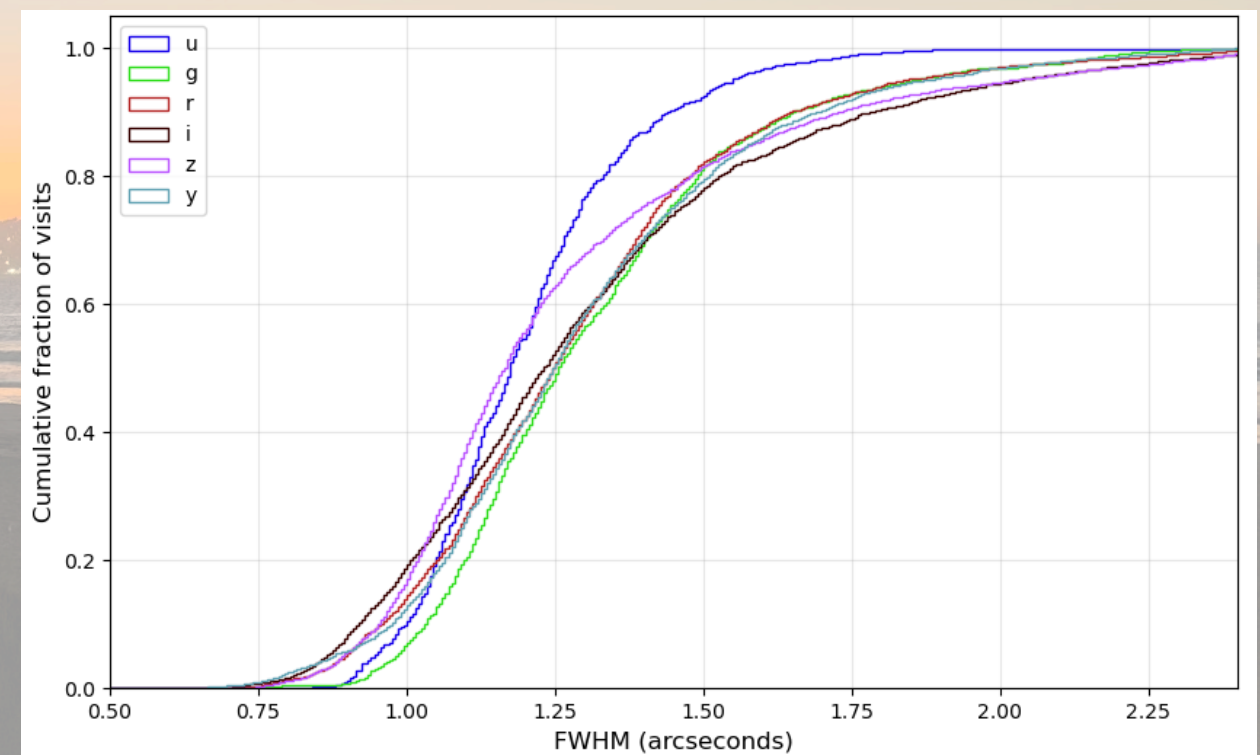
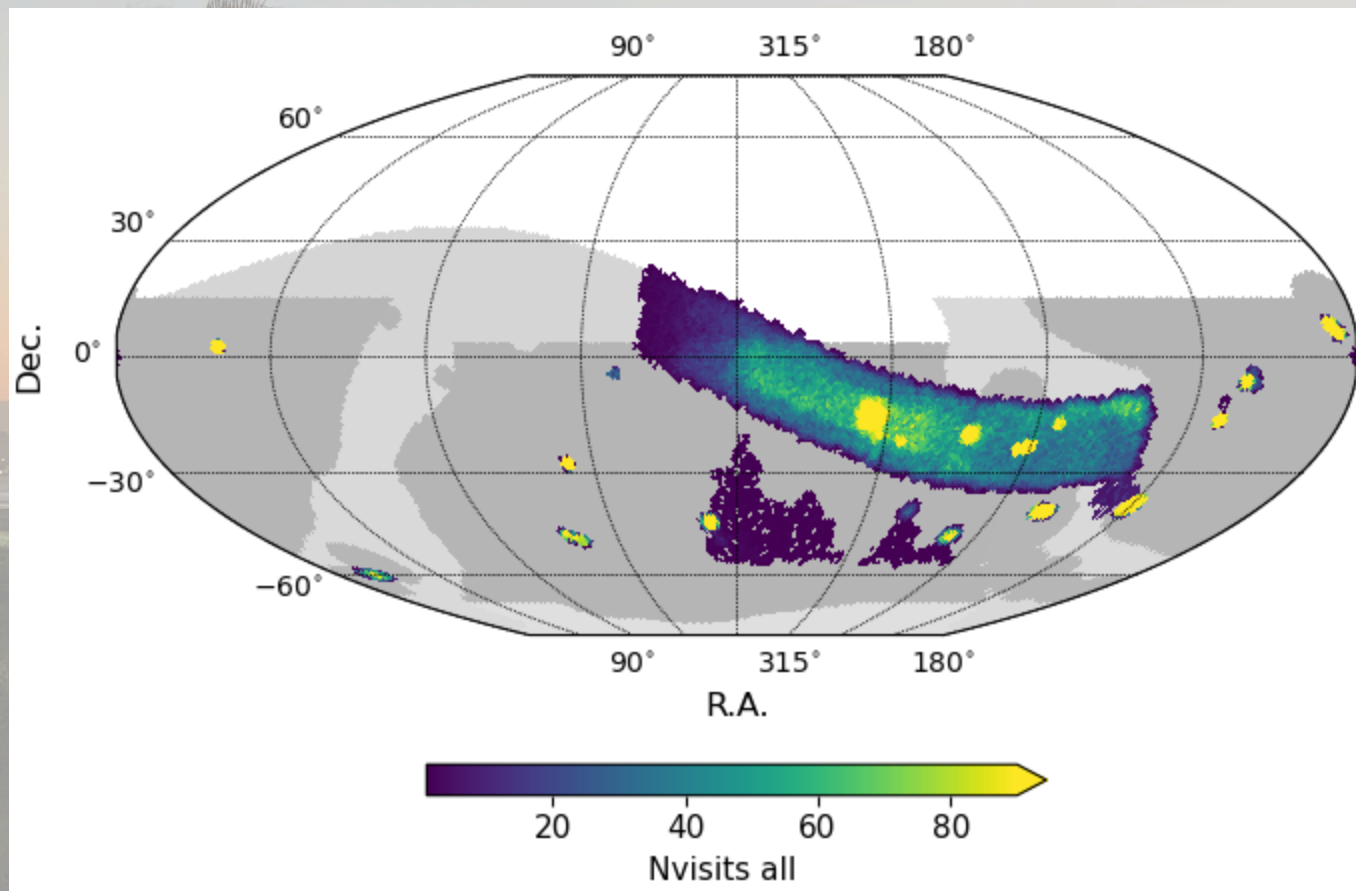
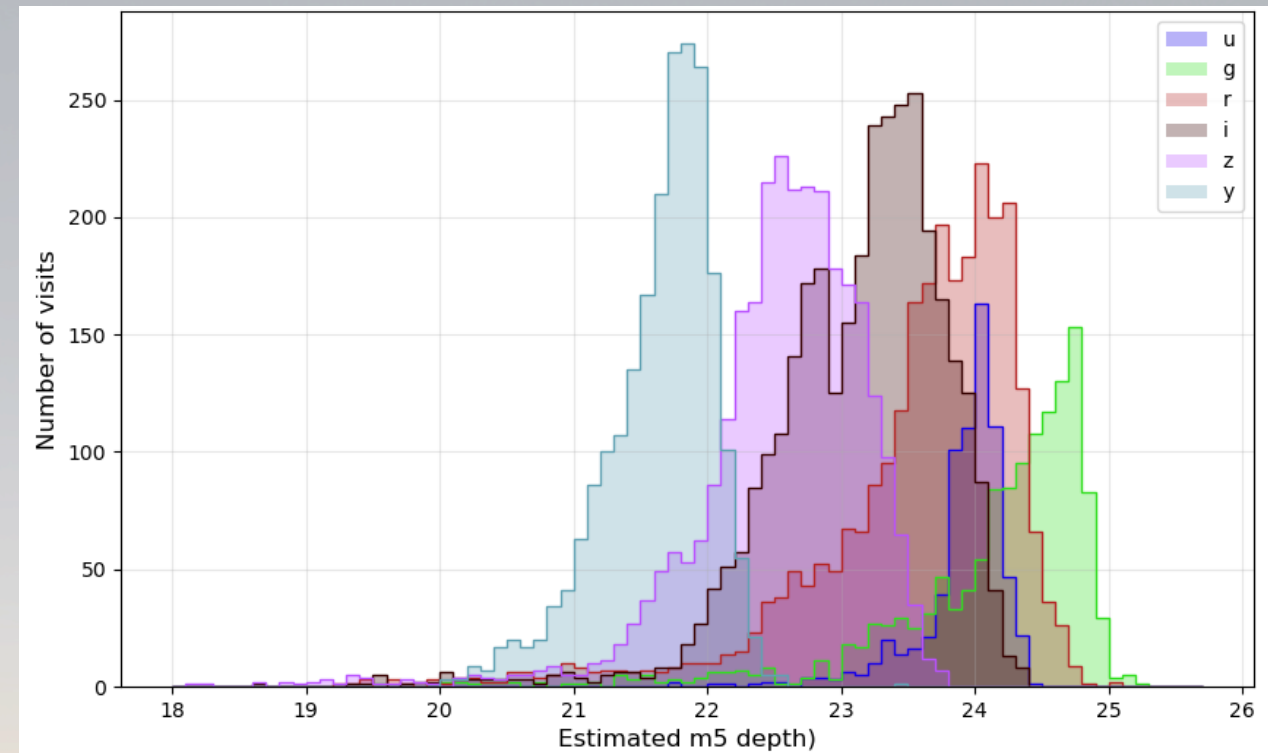
https://s3df.slac.stanford.edu/data/rubin/sim-data/schedview/reports/nightsum/lstcam/2026/06/13/nightsum_2026-06-13.html

LSST

Data Preview 2 (DP2)

- The first data preview from the LSSTCam commissioning campaign by Sep 2025 will be coming soon
- $\sim 1000\text{deg}^2$

<https://rtn-011.lsst.io>



Japan in-kind contribution (1)

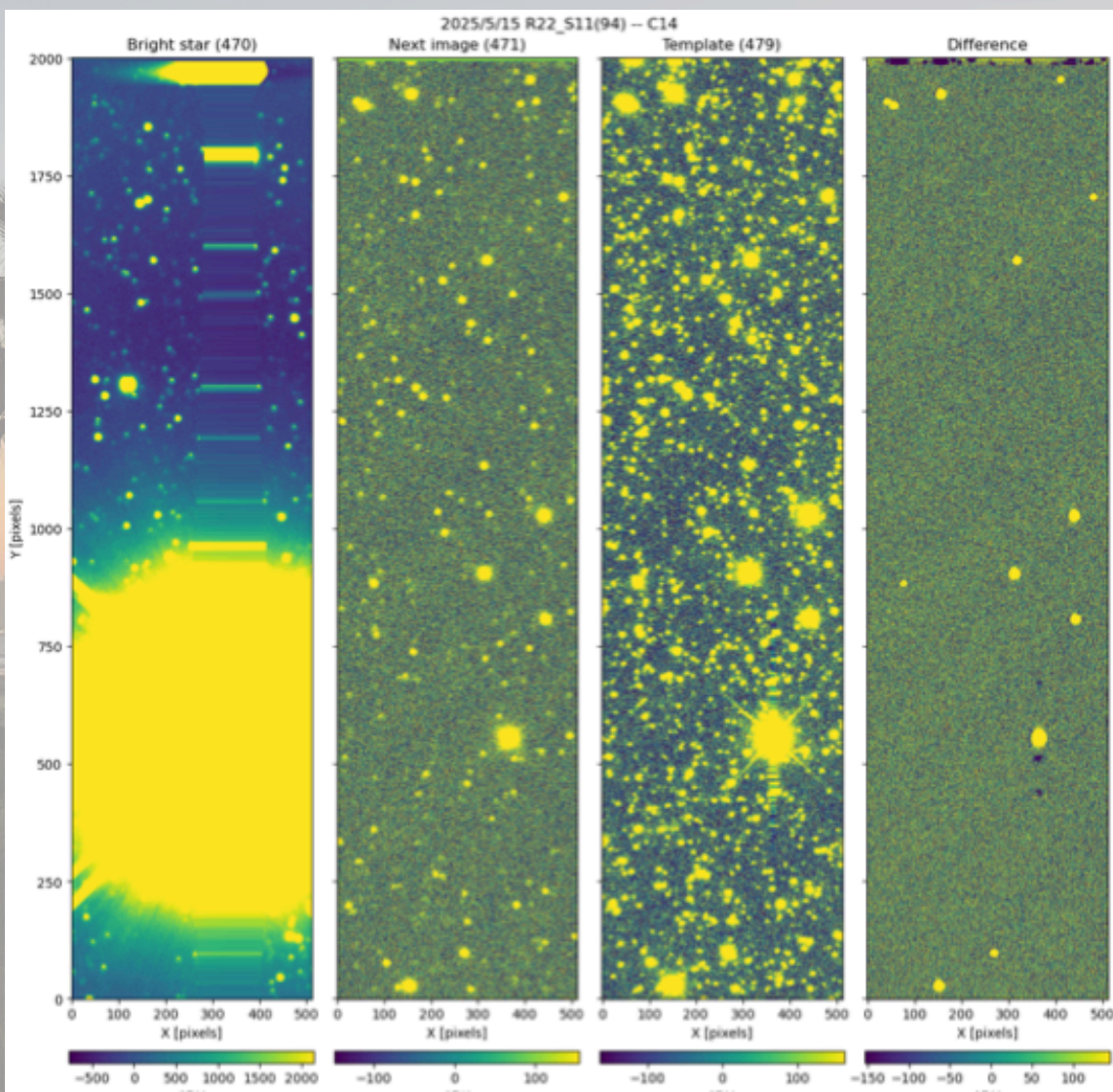
- Subaru time exchange (Koyama, Kobayakawa, Uekiyo, Suehiro, Utsumi)
 - Subaru time has been awarded to NOIRLab proposals since S26A

S26A-TE146-R	Erica Dykes	Characterizing WISPIT-2	VAMPIRES+CHARIS+SCEExAO+NIRWFS-A03k (PDI)	1.0
S26A-TE208-RG	Thayne Currie	Vetting of Companionless Stars for Demonstrating TTR5 with the Roman Coronagraph	CHARIS+SCEExAO+NIRWFS-A03k	2.5

S26B-TE209-GR	Erica Dykes	Imaging Planet Formation Around An ALMA-Selected Sample of Young Suns with SCEExAO, CHARIS, and VAMPIRES	CHARIS+VAMPIRES+SCEExAO+NIRWFS-A03k	2.0
S26B-TE232-RG	Aaron Romanowsky	Imaging of Perseus cluster dwarf galaxies and globular clusters	HSC	0.6
S26B-TE233-R	Thayne Currie	SCEExAO/CHARIS H and K band Characterization of the WISPIT-2b Protoplanet	CHARIS+SCEExAO+NIRWFS-A03k	1.0

Japan in-kind contribution (2)

- Commissioning help (Utsumi, Yasuda)
 - Camera operation improvements (ctn-007)
 - On-sky verification of persistence mitigation
 - Small gain jump mitigation
 - Camera shutter absolute timing (ctn-003)
 - Camera vacuum repair (ctn-008) and refrigeration improvement

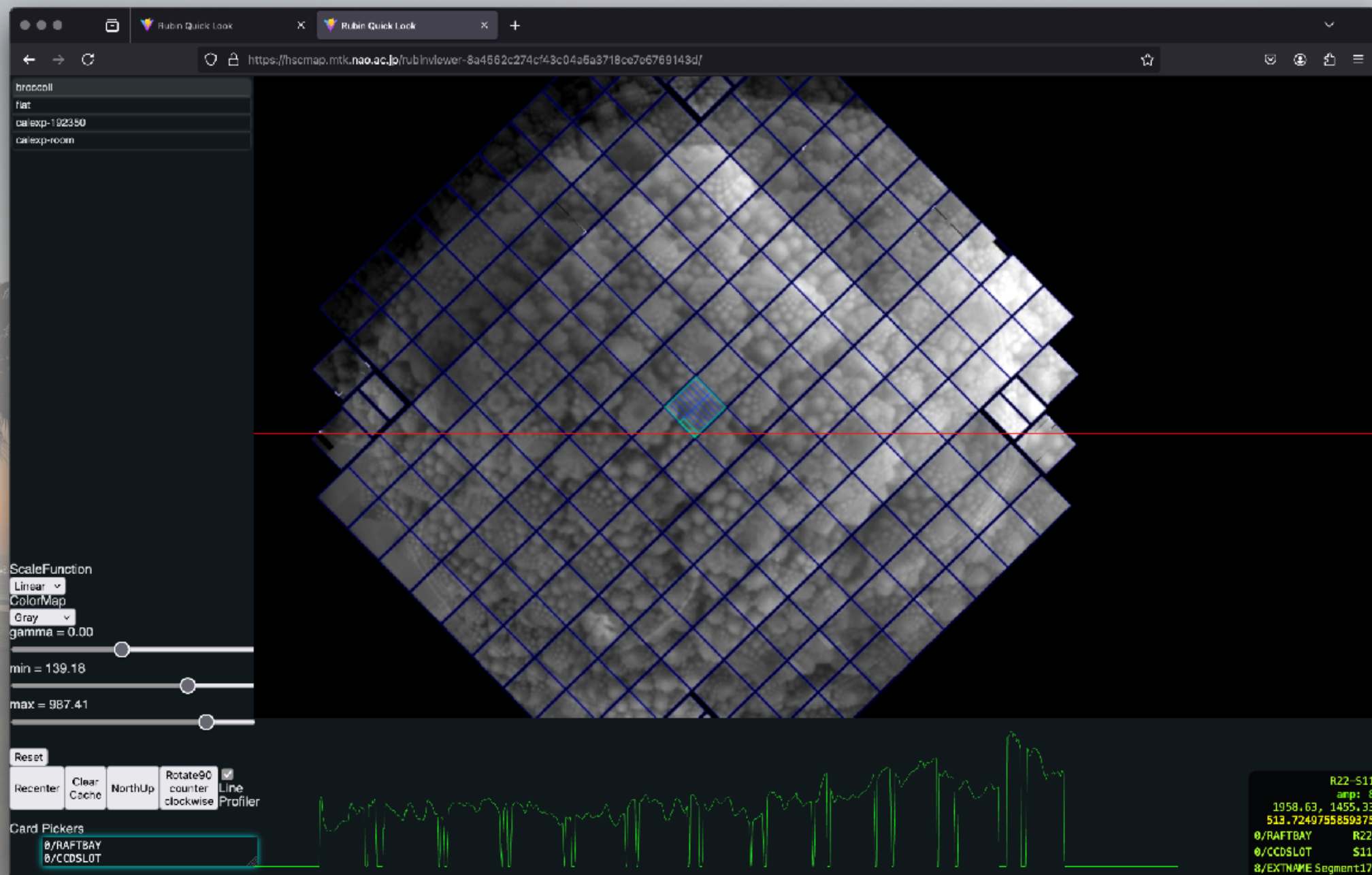


LSST

T. Lange

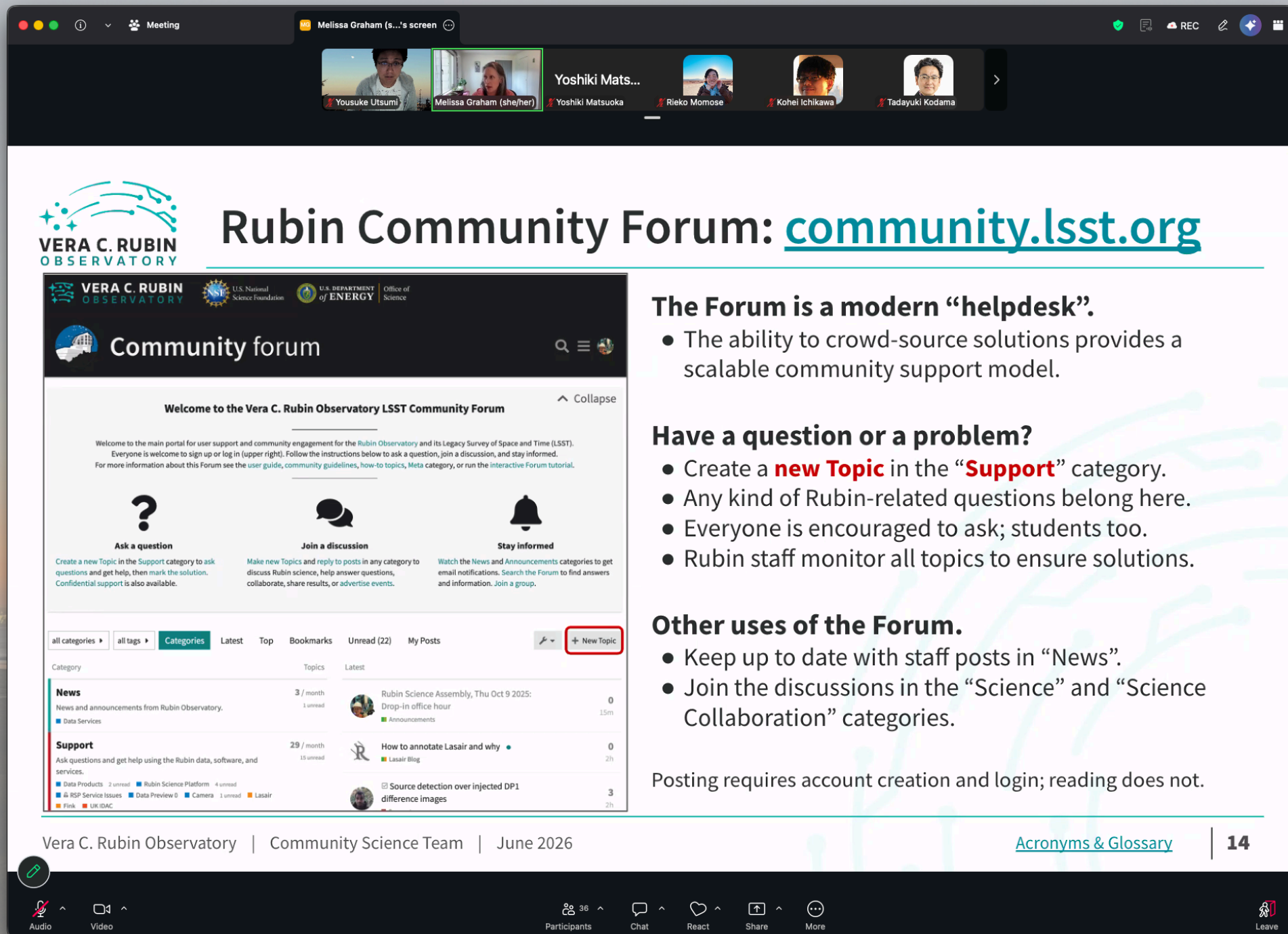
Japan in-kind contribution (3)

- RSP development (Koike, Furusawa, Utsumi)
 - A very powerful tool to visualize focal plane images (currently internal use only)



Japan in-kind contribution (4)

- Community support (Momose, Utsumi)
 - A tutorial session has been conducted (June 2026).



The screenshot shows a Zoom meeting window. At the top, there's a header bar with the meeting title "Meeting" and a list of participants: Youzuke Utsumi, Melissa Graham (she/her), Yoshiki Matsuo, Rieko Momose, Kohei Ichikawa, and Tadayuki Kodama. The main content area displays the Rubin Community Forum website. The website has a dark header with the Vera C. Rubin Observatory logo and the title "Rubin Community Forum: community.lsst.org". Below the header, there's a "Community forum" section with a welcome message and three main actions: "Ask a question", "Join a discussion", and "Stay informed". A table of forum topics is shown, with categories like "News" and "Support". The "Support" category is highlighted, showing topics like "Data Products", "Rubin Science Platform", "RSP Service Issues", "Data Preview 5", "Camera", "Lasair", "Pink", and "UK IDAC". A "New Topic" button is circled in red. At the bottom of the Zoom window, there's a footer bar with "Vera C. Rubin Observatory | Community Science Team | June 2026", a link to "Acronyms & Glossary", and the number "14".

Rubin Community Forum: community.lsst.org

The Forum is a modern “helpdesk”.

- The ability to crowd-source solutions provides a scalable community support model.

Have a question or a problem?

- Create a **new Topic** in the “**Support**” category.
- Any kind of Rubin-related questions belong here.
- Everyone is encouraged to ask; students too.
- Rubin staff monitor all topics to ensure solutions.

Other uses of the Forum.

- Keep up to date with staff posts in “News”.
- Join the discussions in the “Science” and “Science Collaboration” categories.

Posting requires account creation and login; reading does not.

Vera C. Rubin Observatory | Community Science Team | June 2026

[Acronyms & Glossary](#) | 14

Japan in-kind contribution (4)

- LiteIDAC Development (Furusawa H, Yasuda, Mineo, Koike, Morishima, Furusawa J, Niwano, Okura, Zhang)
 - 1000 cores / 3 PB computing resources have been prepared
 - DP1 data transfer has been completed
 - A preparation for serving catalog and images is underway.
 - NAOJ's science platform development is underway

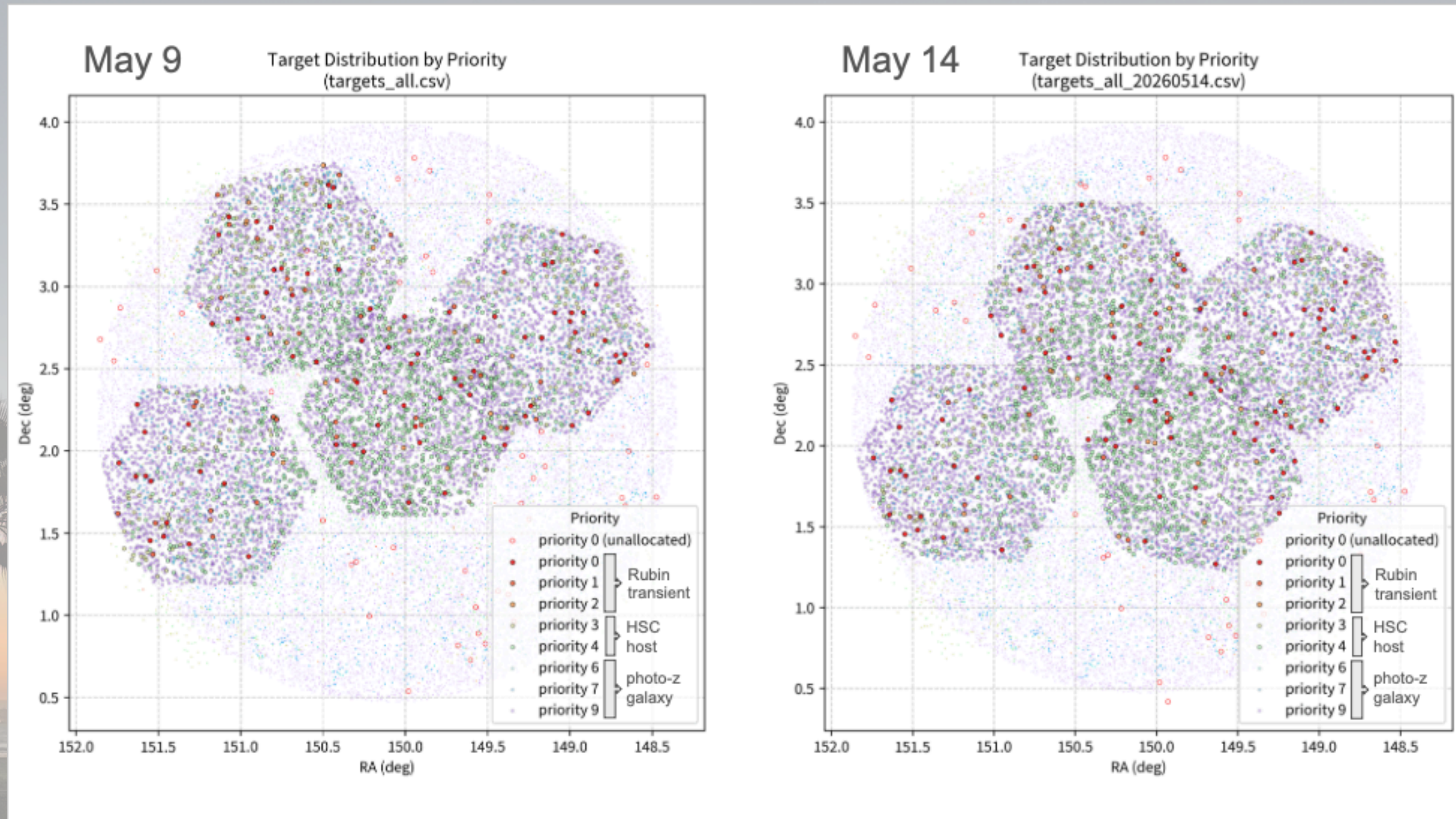


LSST

Furusawa J.

Japan in-kind contribution (5)

- PFS follow up of Rubin transients (Yasuda for IPMU)



S26A-104

Naoki
Yasuda

Spectroscopic Follow-up of Rubin/LSST transients S26A

PFS

2.0

S26B-047

Naoki Yasuda

Spectroscopic Follow-up of Rubin/LSST transients S26B

PFS

2.0

LSST DRH selection FY2025

- supplemental call (term until 2027 September)
 - <https://www.naoj.org/Science/Rubin/20251024/index.html>
- announced 2025 Oct 24, deadline 2025 Dec 2
- document evaluation + panel review over zoom
- 3 PIs + 3 JAs are selected
- future
 - term of current PIs/JAs until 2027 September
 - call for DRH PIs/JAs from 2027 September (3 years) will be issued sometime first half of 2027 (details TBD)

Summary

- Rubin observatory and LSST Camera operations are improving
 - Data from the LSST Camera will be released soon to DRHs
 - LSST will begin soon
 - Japan's in kind contribution is underway
 - New DRHs have been registered
-
- LSST@Asia 2027 in Seoul during April 19 - 23, 2027

