



# Commissioning update, part 2

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## Public communications during commissioning:

- JWST blog, posting on a ~weekly cadence
- Where is Webb? webpage has been a smash hit
- Official social media boosts engagement
- Media briefings after key events, for example:
  - End of major deployments
  - MCC2 mid-course correction
- Tightly controlled messaging, fairly rapid announcements. Balance between giving the team space to work & troubleshoot, and informing the public. Learning as we go.
- Everything leads up to the ERO release at commissioning's end.
- *POCs are Alex Lockwood, Amber Straughn, Jon Gardner.*

## Characterizing science performance during commissioning (1):

- Open communication *within the JWST Commissioning Team*, across institutions & countries. Communicating issues and progress in the JWST Daily Briefing (JDB) and regular data analysis meetings.
- The team is working furiously to understand on-orbit science performance. We will debug issues and quantitatively evaluate science readiness (using the readiness criteria).
- The Commissioning Scientists (Friedman, Kimble, & Rigby) will track the evolving knowledge of science performance.
- Please understand that it's not possible to **fully** characterize science performance in the limited time of commissioning. Our understanding will expand and deepen in Cycle 1.

## Characterizing science performance during commissioning (2):

- The Commissioning Scientists will be on the lookout for any performance issues that might potentially require changes to Cycle 1 observing programs; will alert STScI Science Mission Office.
- **JDOX documentation** will be written and updated to describe the actual science performance. We will:
  - write high-level release notes (based on tracking science performance issues during commissioning in JDB)
  - update many existing pages to reflect actual performance
  - document issues that would affect Cycle 1 programs
  - document as much as we can, realistically, in <2 months
  - start preparing JDox to support Cycle 2 proposal preparation.

## Once commissioning ends:

- The EROs are released.
- All commissioning data go public.
- Science Mission Office will notify PIs of issues that may require changes to observing programs.
- JDox updates will be published. (Some may come out earlier)
- *What sort of post-commissioning briefing does the JSTUC want/expect?*

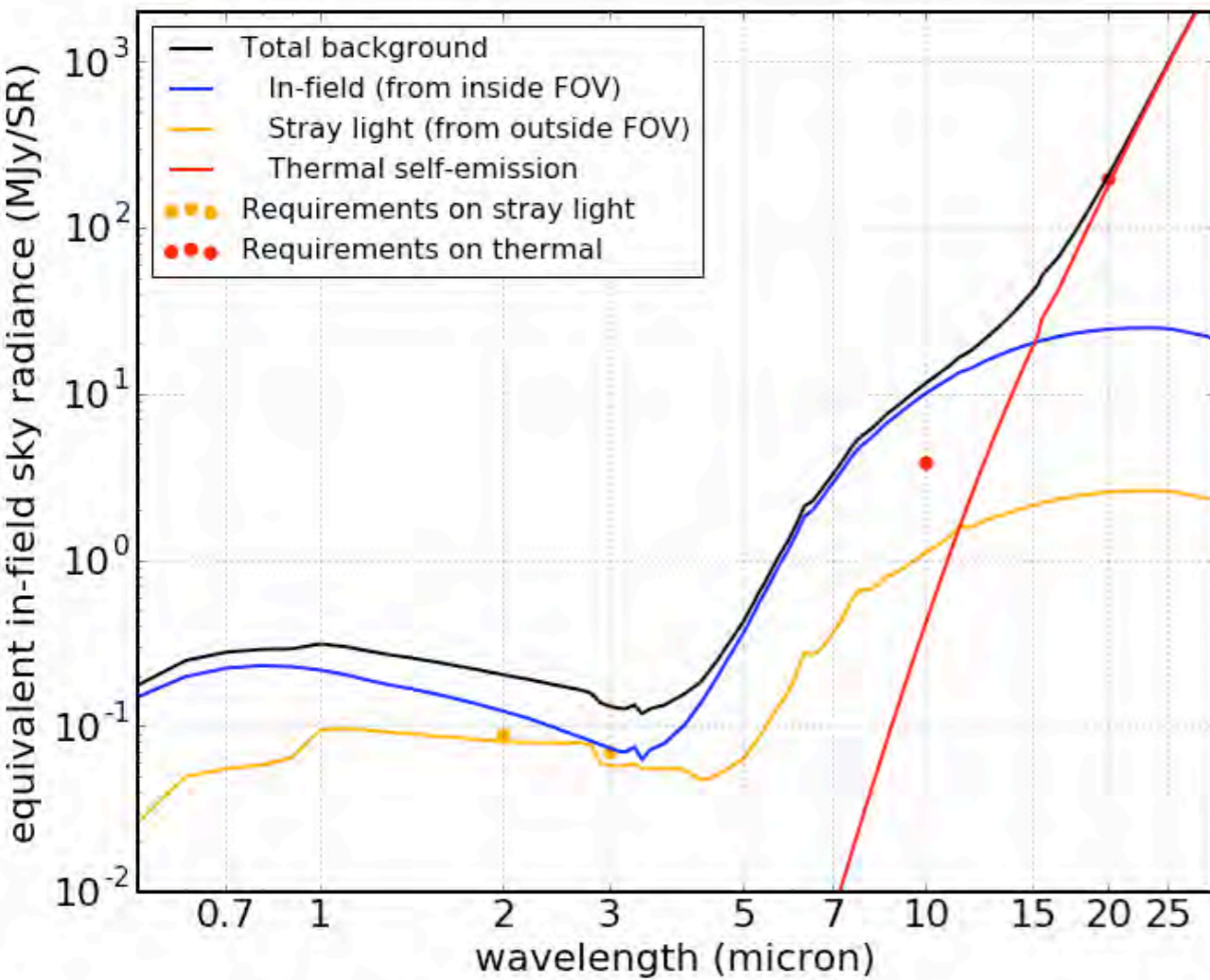
## Later in summer:

- ETC and JDox will be updated to support the Cycle 2 Call for Proposals
  - Two key unknowns are the actual amounts of stray light (near-IR) and thermal emission (mid-IR); they're critical to deep observations (see next slide, straight out of JDox.)

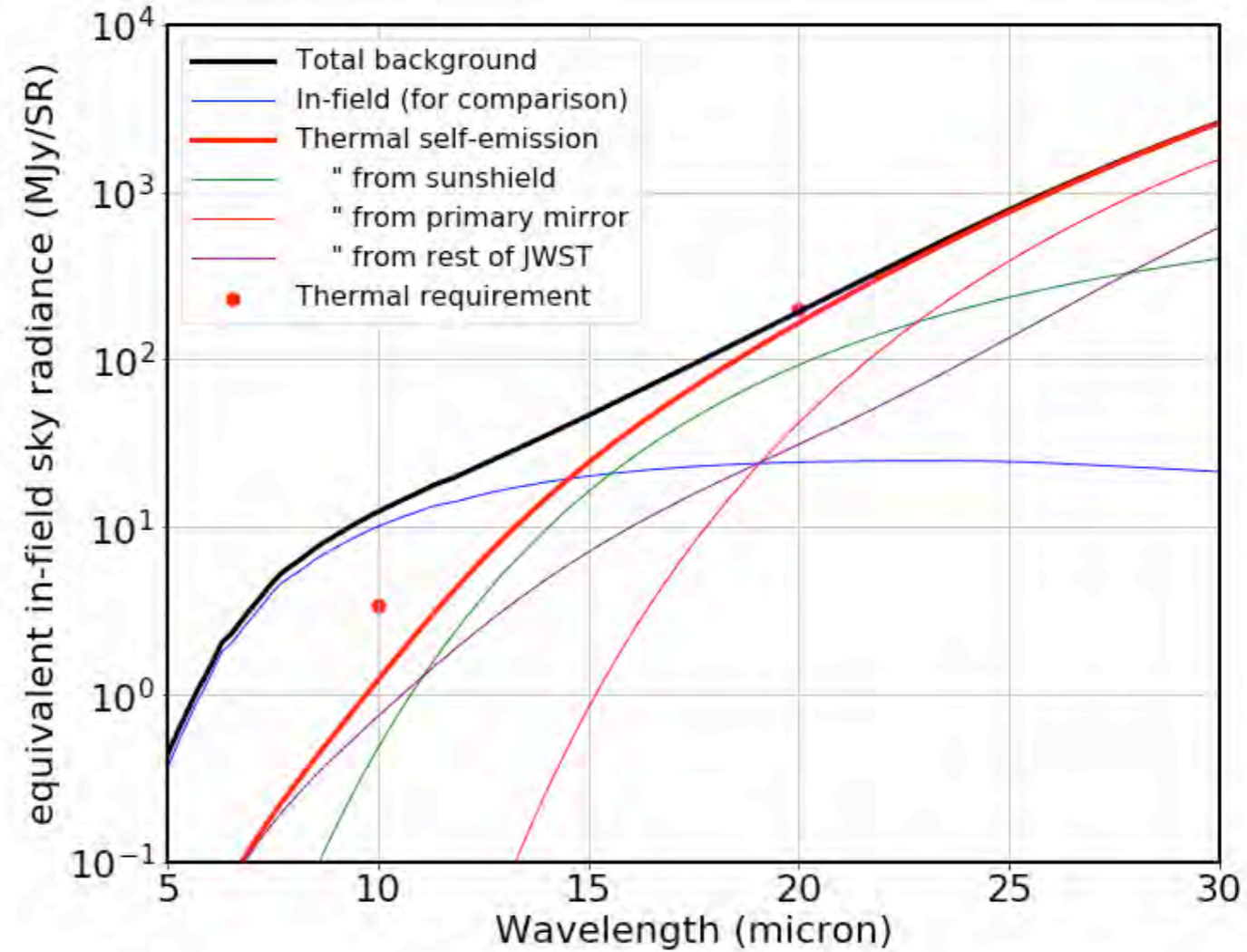


## JWST Background Model

JWST observations will detect infrared background emission from multiple sources: the zodiacal cloud, Milky Way Galaxy, and thermal self-emission from the JWST Observatory itself. Both in-field and scattered emission are important contributors to the JWST

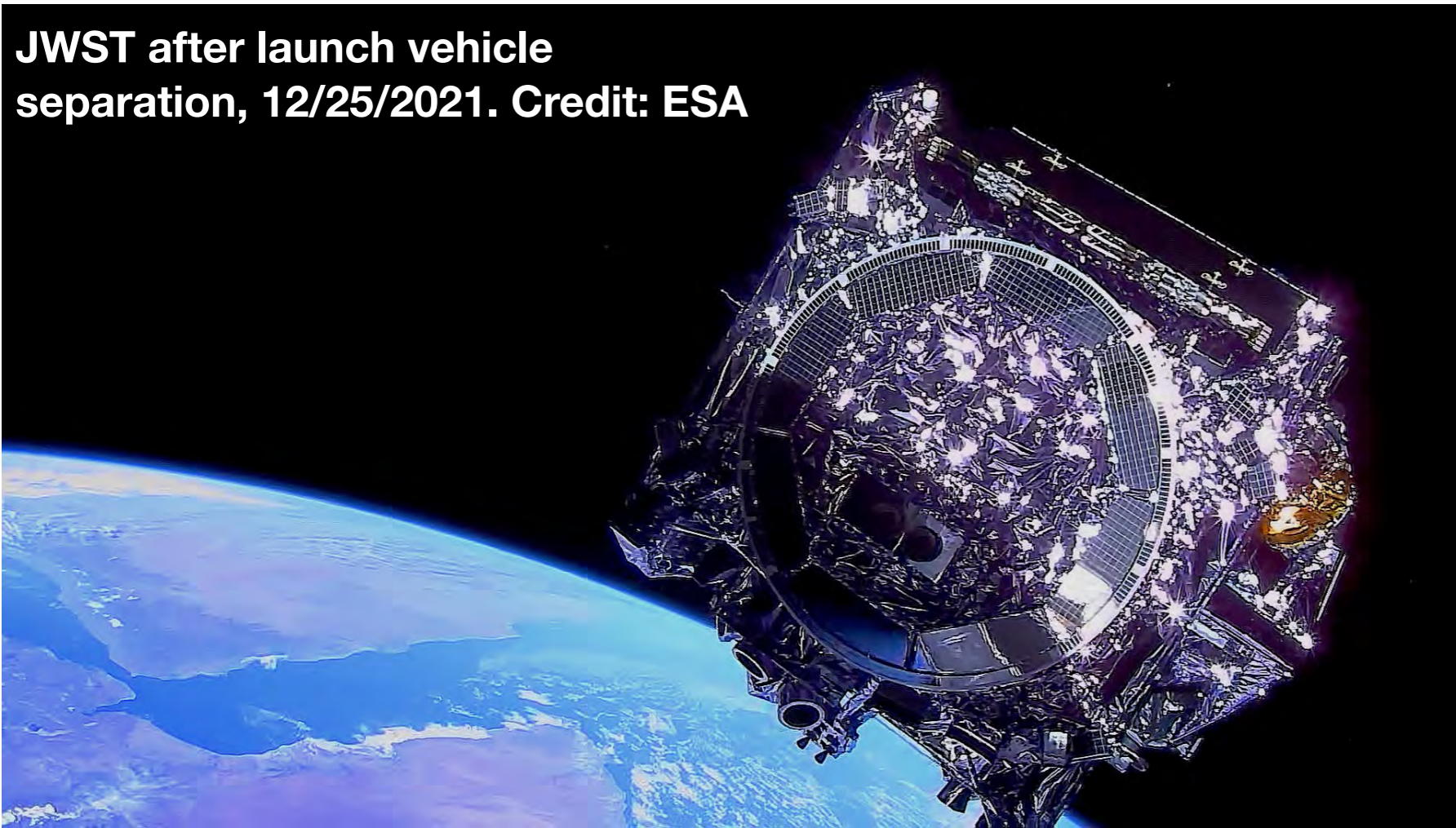


## JDox link

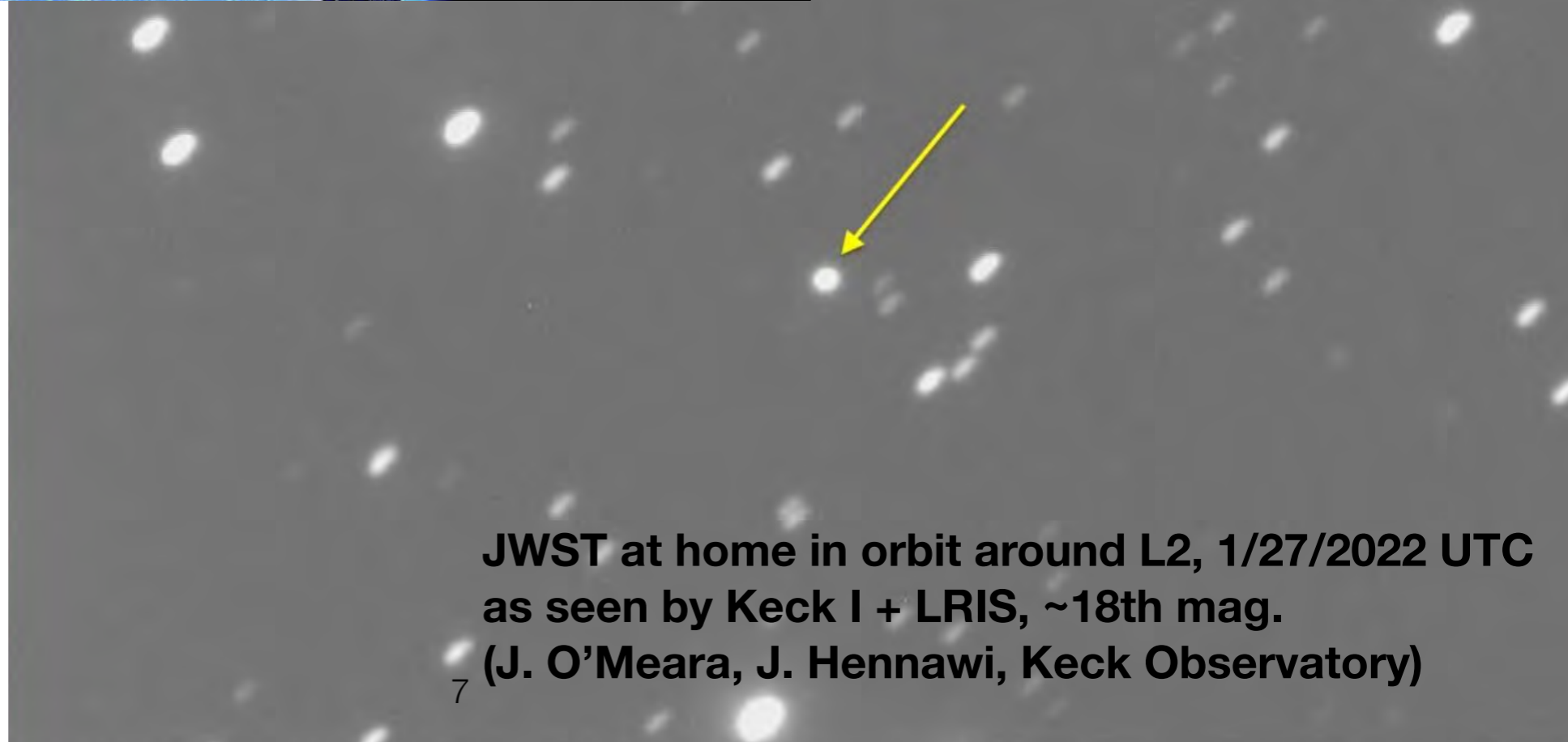
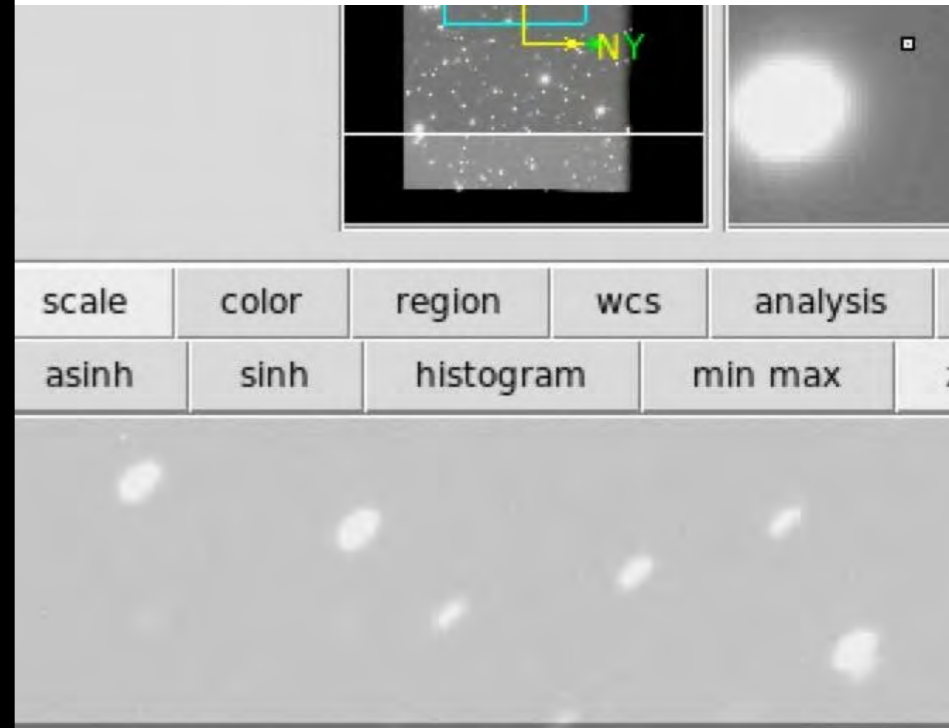


# How it started:

JWST after launch vehicle separation, 12/25/2021. Credit: ESA



# How it's going:



JWST at home in orbit around L2, 1/27/2022 UTC  
as seen by Keck I + LRIS, ~18th mag.  
(J. O'Meara, J. Hennawi, Keck Observatory)