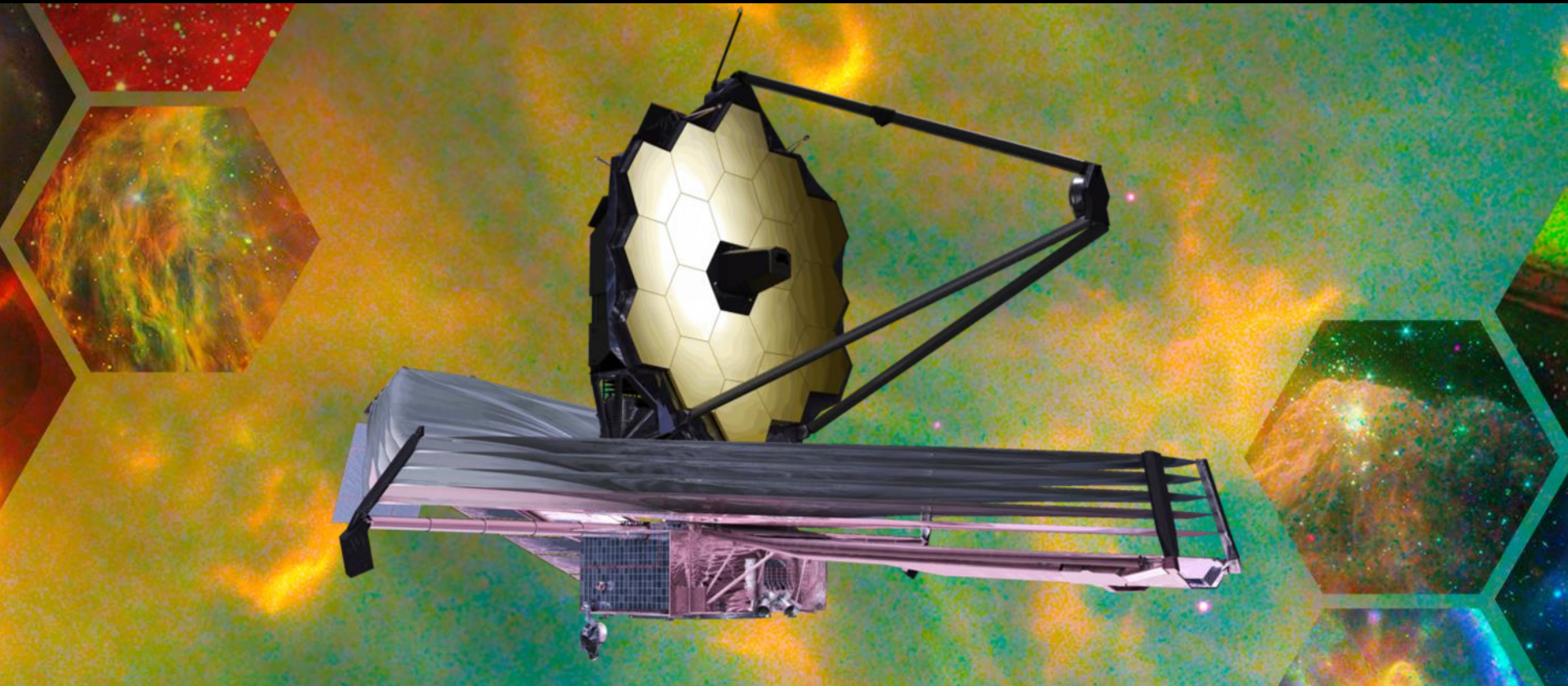


The James Webb Space Telescope

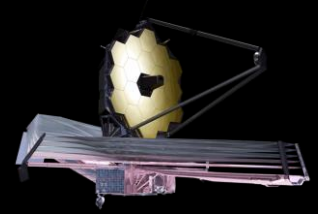


Ryan M. Lau *JAXA International Top Young Fellow, ISAS*

2019 GOPIRA Symposium
Sept 24, 2019

M. Ressler (JPL), N. Izumi (Ibaraki U), C. Yasui (NAOJ), I. Sakon (U Tokyo),
T. Onaka (Meisei U), H. Inami (Hiroshima U), S. Baba (NAOJ), I. Endo (U Tokyo)

Talk Outline

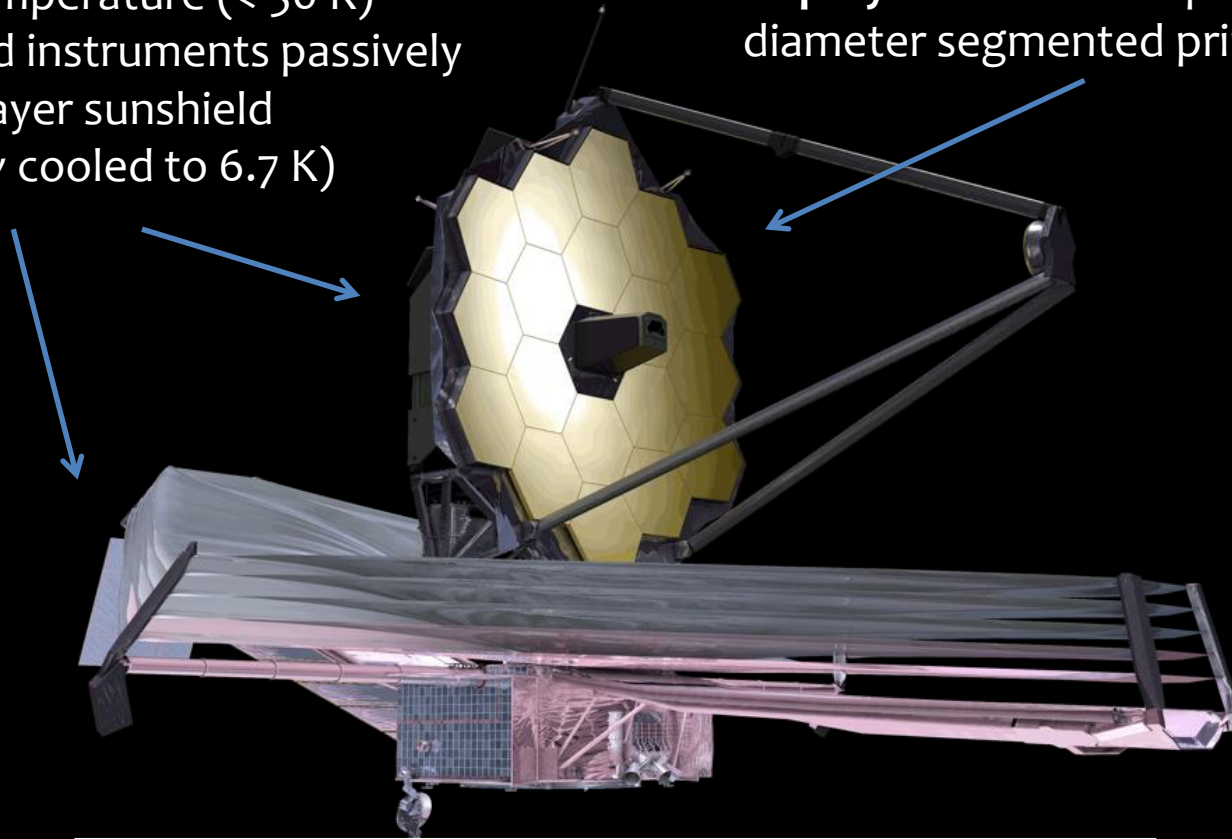


- **Overview of the James Webb Space Telescope**
- **Science Timeline and Cycle 1 Details**
- **Tokyo JWST Cycle 1 Proposal Workshop**
 - March 9 – 10, 2020 @ University of Tokyo, Hongo Campus
- **JWST Science from Japan**

The James Webb Space Telescope

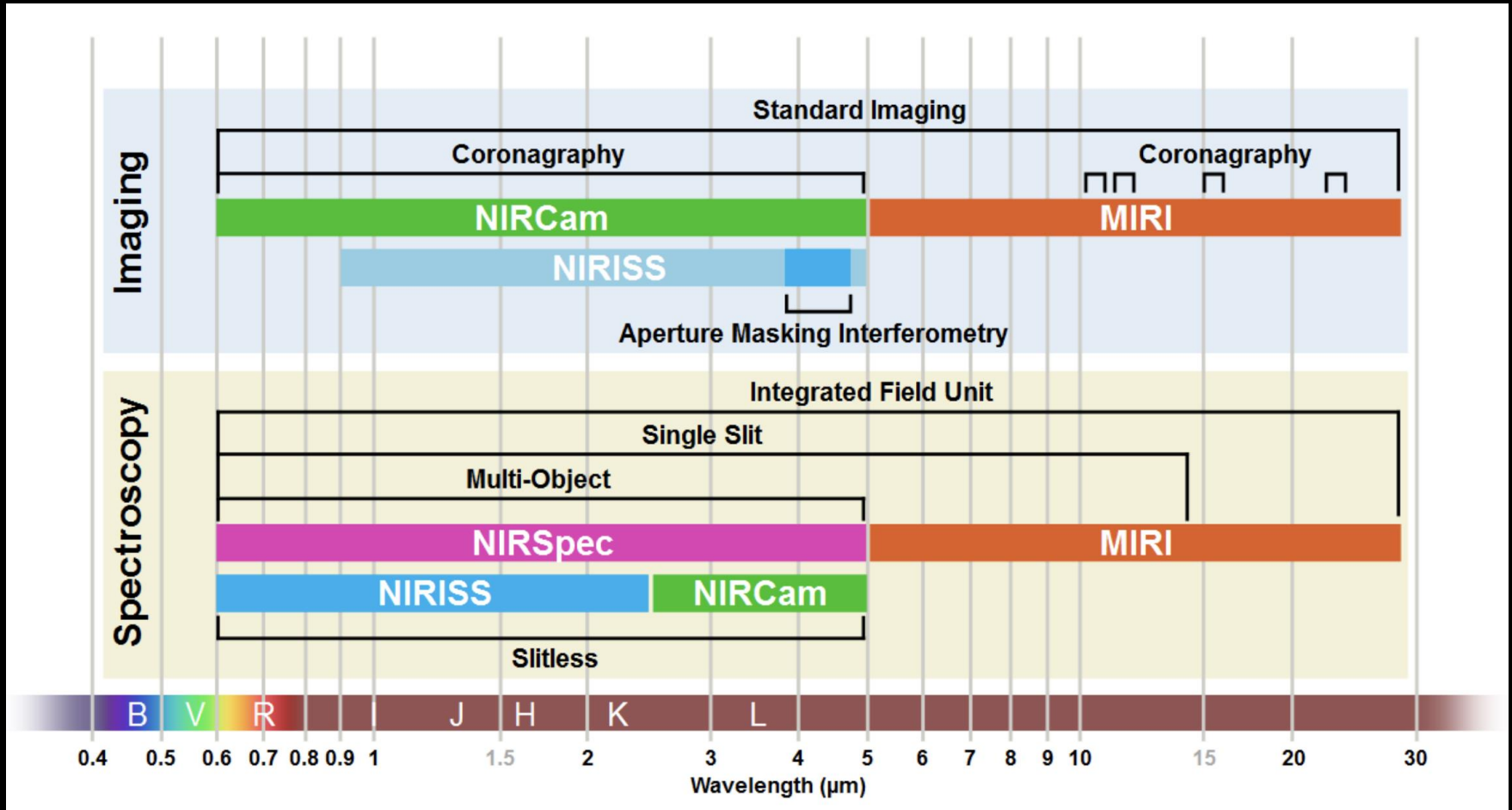
Cryogenic temperature (< 50 K)
telescope and instruments passively
cooled by 5-layer sunshield
(MIRI *actively* cooled to 6.7 K)

Deployable IR telescope w/ 6-m
diameter segmented primary mirror



**Will be the most sensitive infrared
observatory between $1 - 28 \mu\text{m}$**

JWST Instrumentation

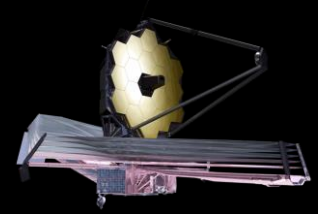


The James Webb Space Telescope



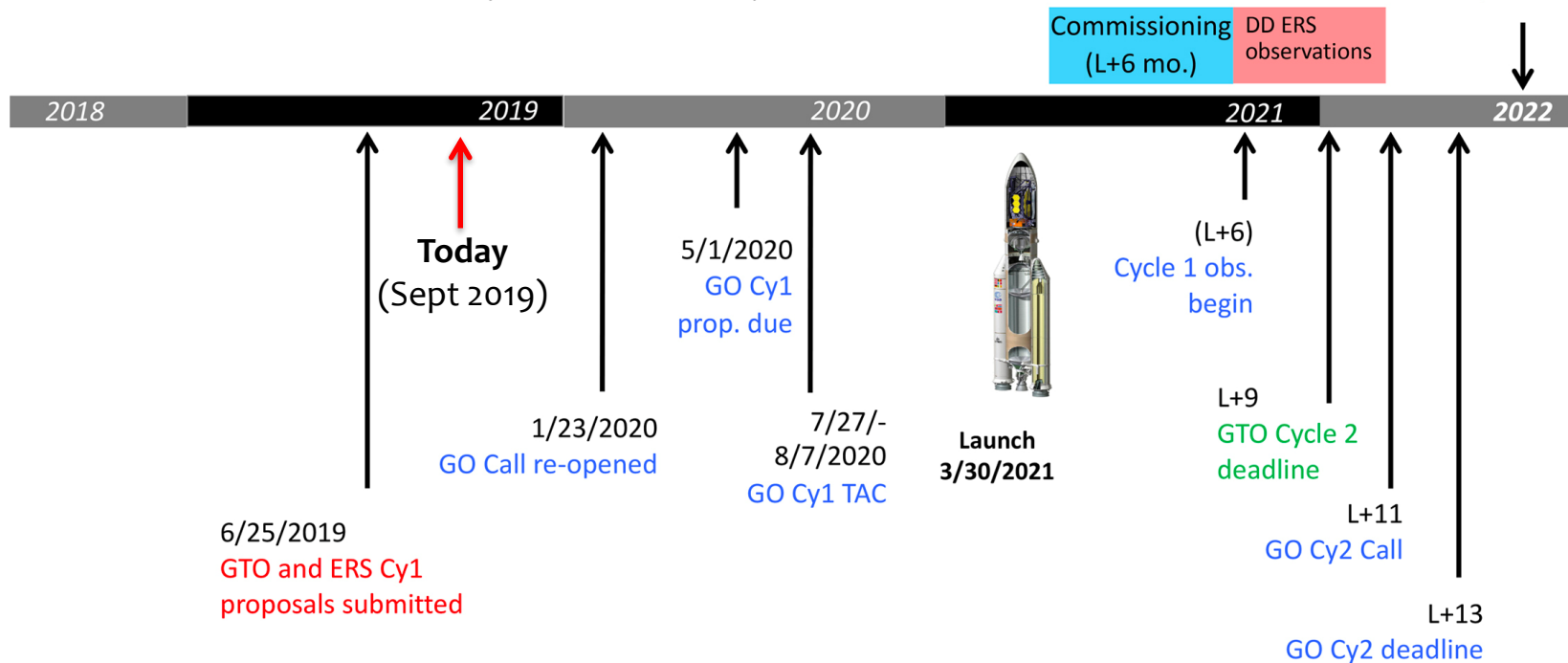
Launch Date - March 30, 2021
(80% Confidence level)

Science Planning Timeline

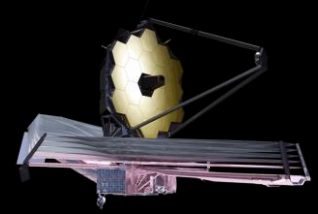


JWST Science Planning Timeline

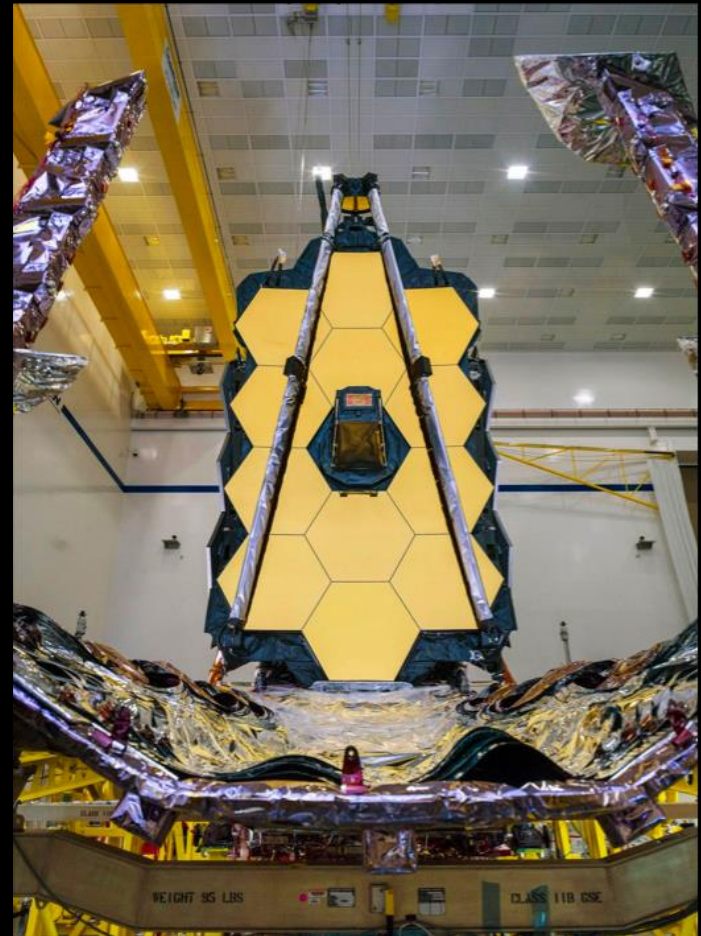
Cycles 1 & 2 Call for Proposals



Cycle 1 Proposal Details

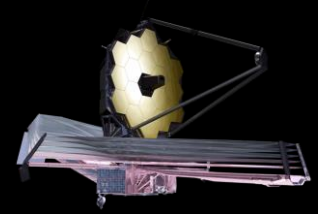


- **Cycle 1 GO Proposal Info**
 - Anticipate ~1500 proposals submitted and ~300 proposals (~20%) accepted
 - Includes joint HST/JWST proposals
 - ***Open to all nationalities/affiliations***
 - Dual anonymous review
- **Proposal Categories**
 - Small (<25 hr)
 - Medium ($25 < t < 75$ hr)
 - Large (> 75 hr)
 - Archival or Theory research
 - *Science more important than time!*



Aug 2019: JWST assembled for the first time (Credit: NASA/Chris Gunn)

Cycle 1 Proposal Preparation



Many proposers would have been scrambling for April 2018 deadline...
... start preparations early for May 2020 deadline!

Core Tools

Astronomer's Proposal Tool (APT – apt.stsci.edu)
Exposure Time Calculator (ETC – jwstetc.stsci.edu)

Support

JWST User Documentation (Jdox), JWST Help Desk

Tokyo JWST Proposal Workshop

March 9 – 10, 2020 @ U. Tokyo, Hongo Campus

- **Purpose:** Train participants to use proposal tools and stimulate proposal ideas for upcoming Cycle 1 Deadline (May 1, 2020)
- Lead instructors H. Inami (Hiroshima U.) & S. Baba (NAOJ) to attend JWST Master Class
- We encourage exploring the tools and thinking about ideas *now*



Fukutake Hall, U. Tokyo

<https://sites.google.com/view/tokyojwstworkshop/>

Please go to link and sign up for mailing list if you are interested in participating!



The screenshot shows the homepage of the Japan JWST Cycle 1 Proposal Workshop. The header features a navigation bar with links: Tokyo, Japan, Home, Program & Materials, Venue, and Mailing List Sign-up (highlighted with a red box). The main banner displays the workshop title, dates (March 9 - 10, 2020), and location (University of Tokyo, Hongo Campus, Fukutake Hall) against a background of space imagery. Below the banner is a 'Mailing List Sign-up' form with the following fields:

Mailing List Sign-up

We will send you updates and news about the JWST Tokyo Workshop with this mailing list.

* Required

Email address *

Your email

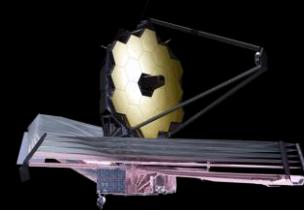
Your name *

Your answer

Your affiliation *

Your answer

JWST Science in Japan



**Star Formation in
Extreme ISM
Environments
(GTO – M.
Ressler/JPL)**



PI: N. Izumi (Ibaraki U)

C. Yasui, R. Lau, M.
Saito, N. Kobayashi

**Radiative Feedback
on ISM from Young
stars (ERS)**



PI: O. Berne (IRAP)

T. Onaka

**ISM Enrichment
from Dying stars
(ERS)**



PI: R. Lau (ISAS/JAXA)

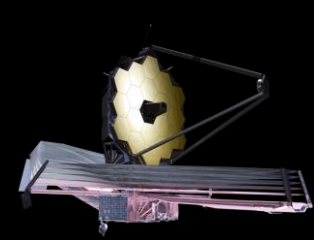
T. Wada, I. Sakon, I.
Endo

**Starburst-AGN
Connection in Galaxy
Mergers (ERS)**



PI: L. Armus (IPAC)

H. Inami



Summary and Key Dates

- **JWST less than two years away!**
 - Jan 23, 2020 -> Cycle 1 Proposal Call
 - Mar 9 – 10, 2020 -> ***Tokyo JWST Workshop***
 - May 1, 2020 -> Cycle 1 Deadline
 - Mar 30, 2021 -> JWST Launch
- **Become familiar with core tools (APT, ETC) early (now!)**
- **Domestic Researchers engaged in Cy1 Programs**