



STScI | SPACE TELESCOPE
SCIENCE INSTITUTE

EXPANDING THE FRONTIERS OF SPACE ASTRONOMY

Science Planning for JWST Cycle 1

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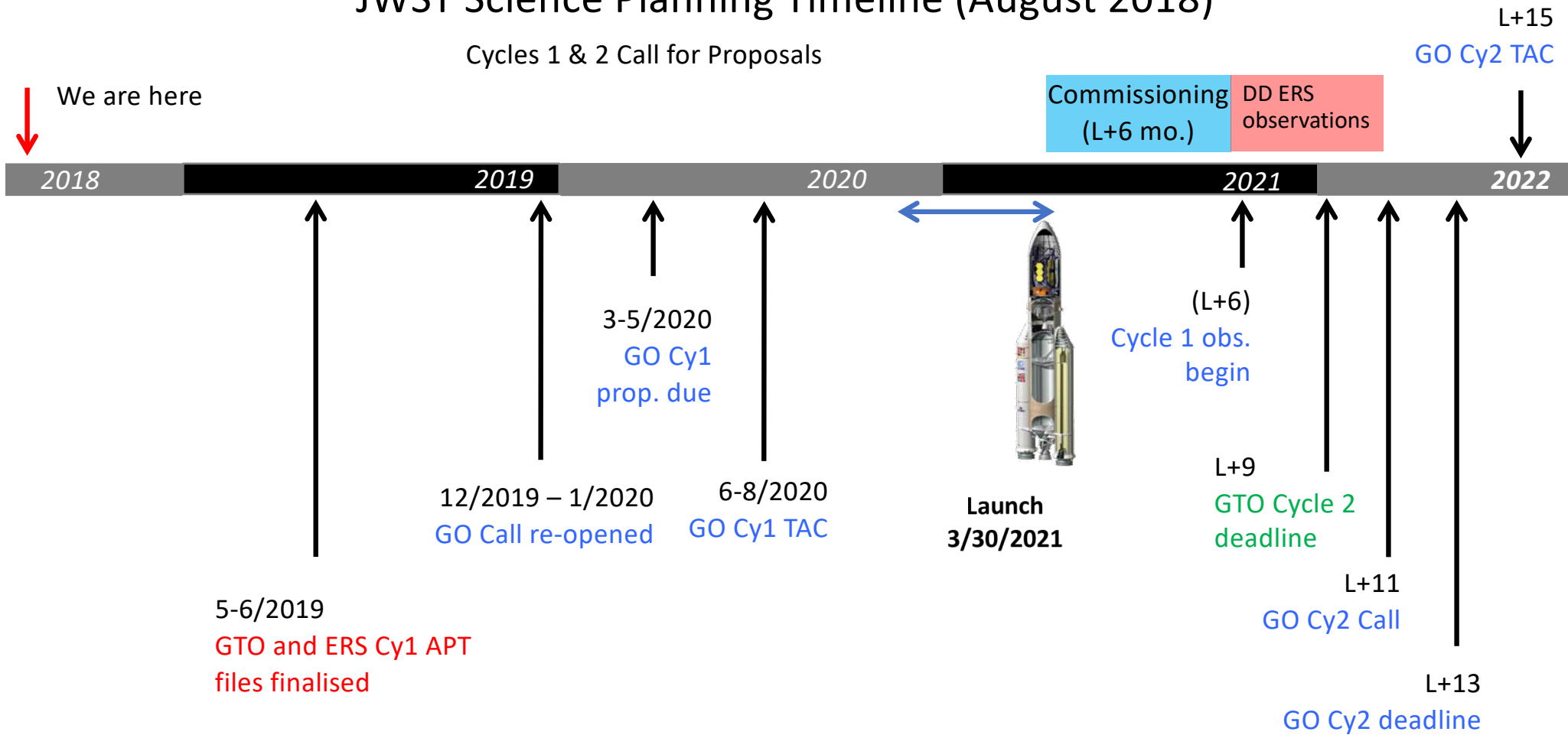


Schedule constraints

- NASA has announced a formal launch date of March 30 2021 (80% confidence)
 - JWST Project is working towards a November 30 2020 launch readiness date (LRD)
 - Populating the Cycle 1 science program should not be on the critical path
- Preparing the Cycle 1 observing schedule
 - All accepted JWST proposals require technical review
 - GTO and ERS proposals will be in hand well in advance of the release of the Cycle 1 GO Call
 - Approximately 6,000 hours available for Cycle 1 GO proposals
 - 2-week timeframe for TAC proposal review → anticipate ~300 accepted proposals
 - Proposal selection will be finalised at Director's Review, ~1 week after TAC
 - INS estimates ~4 months required for technical reviews
 - Once sufficient proposals are reviewed, the Cycle 1 Long Range Plan will be constructed
 - INS staff will transition to commissioning support 2-3 weeks after launch
- Scheduling the TAC in late July/early August is consistent with supporting the LRD

JWST Science Planning Timeline (August 2018)

Cycles 1 & 2 Call for Proposals





Summary

- The Early Release Science Program is in place
 - Pre-launch funding allocated following IRB recommendation
- Cycle 1 GTO program is in place
- Infrastructure for Cycle 1 GO program is in place
 - And has been given a live test!
- The Cycle 1 GO Call will be re-issued in winter 2020
 - Proposal deadline in Spring 2020
 - TAC meets in summer 2020
- Detailed schedule will be developed in the near future





JWST Launch/Deployment Timeline



Sun

(L+ 3.2 min)
Fairing Separation

Earth

(L+ 30 min)
Separation from LV

(L+ 33 min)
Solar Array
Deployment

(L + 2.7 days)
Sunshield Fwd UPS
Deployment

(L + 120 min)
Gimbaled Antenna Assy
(GAA) Deployment

(L + 5.5 days)
Sunshield Full
Deployment

(L + 3.1 days)
Sunshield Aft UPS
Deployment

(L + 7.5 & 8.6 days)
PMBA Wing
Deployments

(L + 6.3 days)
SMSS Deployment

(L + 14 days)
Secondary Mirror
Assy Deployment

(L + 9.1 days)
Primary Mirror
Segment Assy
Deployment



L2

JWST

Clampin/GSFC



A deep space photograph showing a vast field of stars and a prominent blue nebula. The nebula is composed of glowing gas and dust, with darker, silhouetted regions. The stars are scattered throughout, with some appearing as bright, multi-pointed sources. The overall color palette is dominated by deep blues and blacks, with some warmer tones from the nebula's emission.

Backup



Worth the wait!

