

# James Webb Space Telescope Town Hall

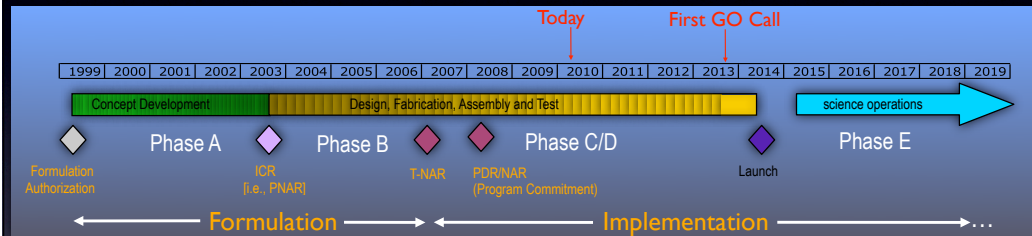
The NASA logo is centered in the background, featuring the word "NASA" in a bold, sans-serif font. A red swoosh curves across the letters, and a white orbital path is visible behind them. The logo is set against a dark blue circular backdrop with small white stars.

NASA

Eric P. Smith  
JWST Program Scientist  
NASA Headquarters



# Program Phase





# 2009 Progress

## General

- Hardware development in full swing for all elements
- Instrument engineering units nearing completion
- Project offices moved to hardware assembly buildings at GSFC
- Randy Kimble named Integration and Testing Project Scientist

## Telescope and Mirrors

- Engineering Development Unit measurements post-cryo hit map polishing indicate excellent performance validating procedures for flight mirrors

## Observatory

- Sunshield 1/3 scale thermal vacuum testing completed

## Ground Segment & STScI

- JSTAC formed to advise STScI on their readiness for science



# JSTAC Membership

Member	Institution
Garth Illingworth (Chair)	UCSC/UC Observatories
Roberto Abraham	University of Toronto
Neta Bahcall	Princeton University
Stefi Baum	Rochester Institute of Tech.
Roger Brissenden	Harvard SAO
Tim Heckman	Johns Hopkins University
Malcolm Longair	Cambridge University
Christopher McKee	University of California, Berkeley
Bradley Peterson	Ohio State University
Sara Seager	Massachusetts Institute of Tech.
Lisa Storrie-Lombardi	California Institute of Tech.
Joe Rothenberg	Universal Space Network
Monica Tosi	Observatorio Astronomica di Bologna
Committee Ex-officio Representatives	
Eric Smith	NASA Headquarters
Marc McCaughrean	ESA
Alain Berinstain	CSA
John Mather	NASA GSFC



# 2009 Progress Continued

## MIRI

- Flight model integration is underway.
- Flight detector subsystem to ESA during March

## NIRSpec

- Verification model test program completed
- Flight model integration is underway
- Flight microshutter and detector subsystems to ESA during March

## NIRCAM

- All optics mount design changes have passed CDR.
- Engineering model instrument testing underway

## FGS

- Engineering model test program completed.
- Flight model integration underway

**ALL:** Flight detectors delivered to Integration and Testing

5 - January - 2010

215th AAS meeting, Washington, DC

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## MIRI

- Cryo-cooler performance margin issues resolved. Accommodation changes (ISIM thermal shield and RLDA thermal design) on track for mission CDR
- Flight model integration is underway.
- Flight detector subsystem on track for delivery to ESA during March

## NIRSpec

- Verification model test program completed
- Flight model integration is underway
- Flight microshutter and detector subsystems on track for delivery to ESA during March

## NIRCAM

- All optics mount design changes have passed CDR.
- Engineering model instrument test program underway

## FGS

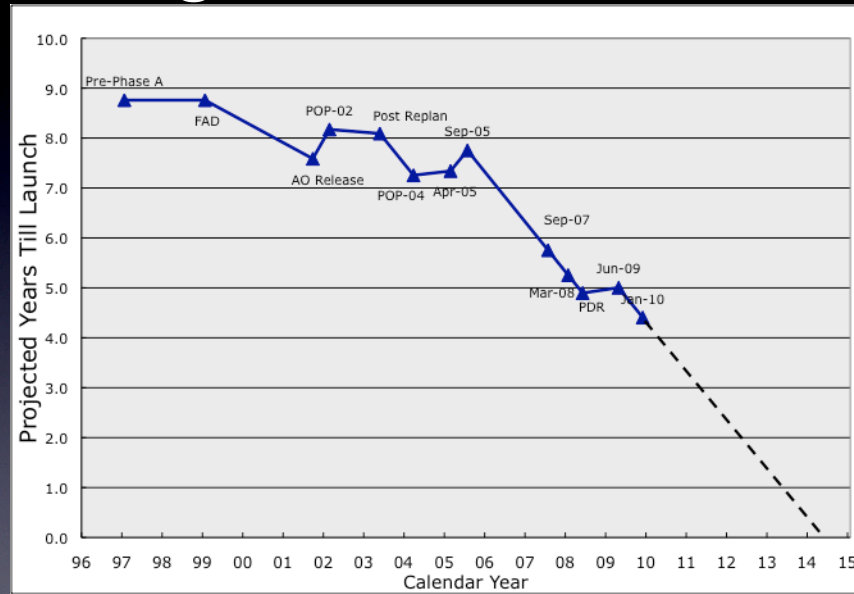
- Engineering model test program completed.
- Flight model integration underway

## OVER ALL

- All flight detectors have been delivered to I&T
- All engineering or verification models on track for delivery to GSFC during next several months



# Progress to Launch Date





# 2010 Major Events

- First Cryogenic Test of 6 Mirrors Starts in January
- Sunshield Critical Design Review, January
- NIRCams & NIRSpec Eng. Test Unit pre-ship reviews, January
- MIRI Structural/Thermal model delivery review, February
- Science Policies Document complete, February
- FGS Engineering Test Unit pre-ship review, March
- Mission Level Critical Design Review, April
- Observatory Flight Software Build I complete, December



# Summary: JWST is...

a flagship science mission and a worthy successor to Hubble, especially in light of recent WFC3 results,

an engineering challenge, but one that is being met,

- Engineering or verification models for all the instruments are being delivered to GSFC for ISIM testing this year
- Flight mirrors production going well and according to plan

undergoing its Mission Critical Design Review this year,

developing plans for community interaction prior to launch.