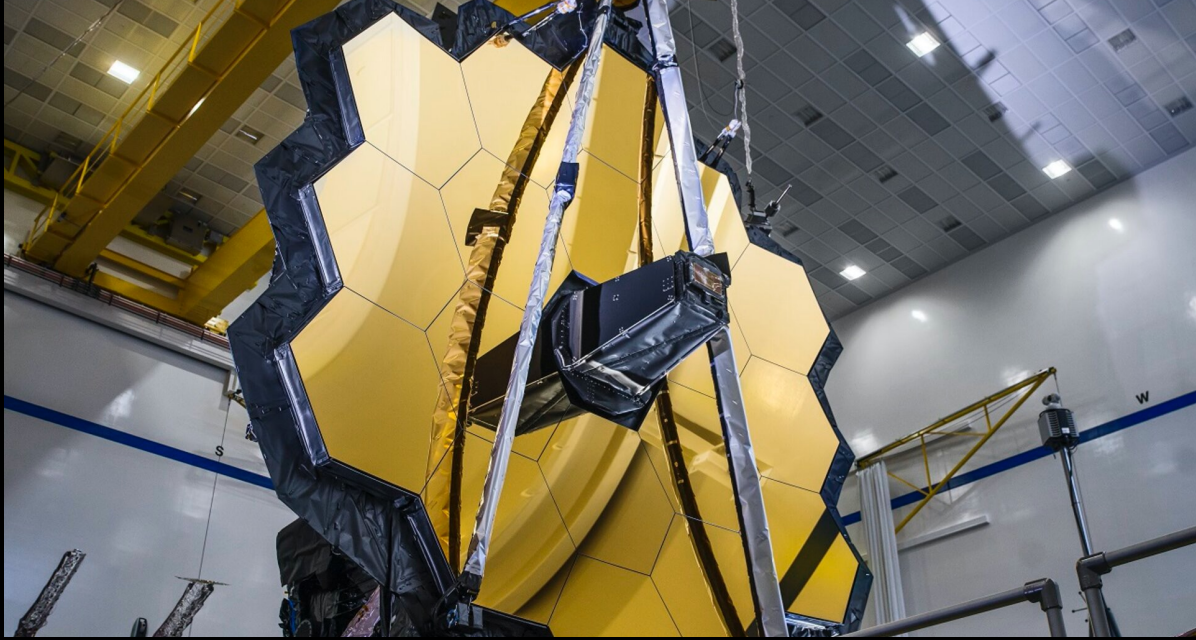
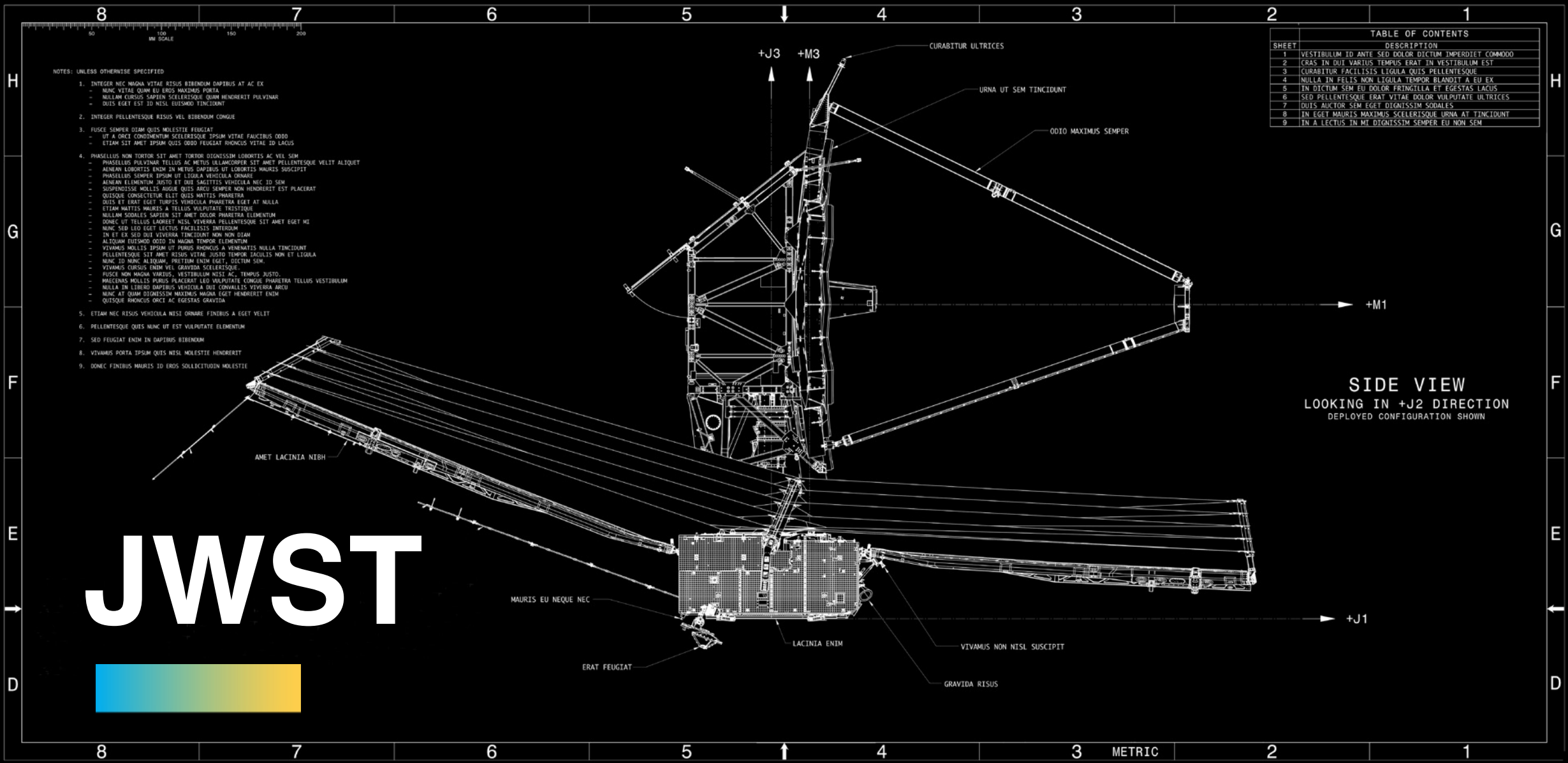


GOTO **CHICAGO 2023**

#GOTOchgo





NOTES: UNLESS OTHERWISE SPECIFIED

1. INTEGER NEC MAGNA VITAE RISUS BIBENDUM DAPIBUS AT AC EX
 - NUNC VITAE QUAM EU EROS MAECENAS PORTA
 - NULLAM CURSUS SAPIEN SCelerisque QUAM HENDHERIT PULVINAR
 - DUIS EGRET EST ID NISL EUISMOD TINCIDUNT
2. INTEGER PELLENTESQUE RISUS VEL BIBENDUM CONQUE
3. FUSCE SEMPER DIAM QUIS MOLESTIE FEUGIAT
 - UT A ORCI CONDIMENTUM SCelerisque IPSUM VITAE FAUCIBUS ODIO
 - ETIAM SIT AMET IPSUM QUIS ODIO FEUGIAT RHONCUS VITAE ID LACUS
4. PHASELLUS NON TORTOR SIT AMET TORTOR DIGNISSIM LOBORITIS AC VEL SEM
 - PHASELLUS PORVONAR TELLUS AC METUS VEL LANGORPER SIT AMET PELLENTESQUE VELIT ALIQUET
 - AENEAN LOBORITIS ENIM IN METUS DAPIBUS UT LOBORITIS MAURIS SUSCIPIT
 - PHASELLUS SEMPER IPSUM UT LIQUA VEHICULA ORNARE
 - AENEAN ELEMENTUM JUSTO ET DUI SAGITTIS VEHICULA NEC ID SEM
 - SUSPENDISSE MOLLIS AUGUR QUIS ARCU SEMPER NON HENDHERIT EST PLACERAT
 - QUIUSQUE CONJECTETUR ELIT QUIS MATTIS PHARETRA
 - DUIS ET EGRET EGRET TURPIS VEHICULA PHARETRA EGRET AT NULLA
 - ETIAM MATTIS MAURIS A TELLUS VULPUTATE TRISTIQUE
 - NULLAM SODALES SAPIEN SIT AMET DOLOR PHARETRA ELEMENTUM
 - DONEC UT TELLUS LANGORET NISL VIVERRA PELLENTESQUE SIT AMET EGRET MI
 - NUNC SED LEO EGRET LECTUS FACILISSIS INTERDUM
 - IN ET EX SED DUI VIVERRA TINCIDUNT NON NON DIAM
 - ALIQUAM EUISMOD ODIO IN MAGNA TEMPOR ELEMENTUM
 - VIVAMUS MOLLIS IPSUM UT PURUS RHONCUS A VENENATIS NULLA TINCIDUNT
 - PELLENTESQUE SIT AMET RESUS VITAE JUSTO TEMPOR JACULIS NON ET LIQUA
 - NUNC ID NUNC ALIQUAM PRETUM ENIM EGRET DICTUM SEM
 - VIVAMUS CURSUS ENIM VEL GRAVIDA SCelerisque
 - FUSCE NON MAGNA VIRIDIS VESTIBULUM NISL AC TEMPUS JUSTO
 - MAECENAS MOLLIS PURUS PLACERAT LEO VULPUTATE CONQUE PHARETRA TELLUS VESTIBULUM
 - NULLA IN LIBRO DAPIBUS VEHICULA DUI CONVALLIS VIVERRA ARCU
 - NUNC AT QUAM DIGNISSIM MAECENAS MAGNA EGRET HENDHERIT ENIM
 - QUIUSQUE RHONCUS ORCI AC EGRESTAS GRAVIDA
5. ETIAM NEC RISUS VEHICULA NISL ORNARE FINIBUS A EGRET VELIT
6. PELLENTESQUE QUIS NUNC UT EST VULPUTATE ELEMENTUM
7. SED FEUGIAT ENIM IN DAPIBUS BIBENDUM
8. VIVAMUS PORTA IPSUM QUIS NISL MOLESTIE HENDHERIT
9. DONEC FINIBUS MAURIS ID EROS SOLLECITUDIN MOLESTIE

TABLE OF CONTENTS	
SHEET	DESCRIPTION
1	VESTIBULUM ID ANTE SED DOLOR DICTUM IMPERDIET COMMODO
2	CRAS IN DUI VARIUS TEMPUS ERAT IN VESTIBULUM EST
3	CURABITUR FACILISSIS LIQUA QUIS PELLENTESQUE
4	NULLA IN FELIS NON LIQUA TEMPOR BLANDIT A EU EX
5	IN DICTUM SEM EU DOLOR FRINGILLA ET EGRESTAS LACUS
6	SED PELLENTESQUE ERAT VITAE DOLOR VULPUTATE ULTRICES
7	DUIS AUCTOR SEM EGRET DIGNISSIM SODALES
8	IN EGRET MAURIS MAXIMUS SCelerisque URNA AT TINCIDUNT
9	IN A LECTUS IN MI DIGNISSIM SEMPER EU NON SEM

SIDE VIEW
LOOKING IN +J2 DIRECTION
DEPLOYED CONFIGURATION SHOWN

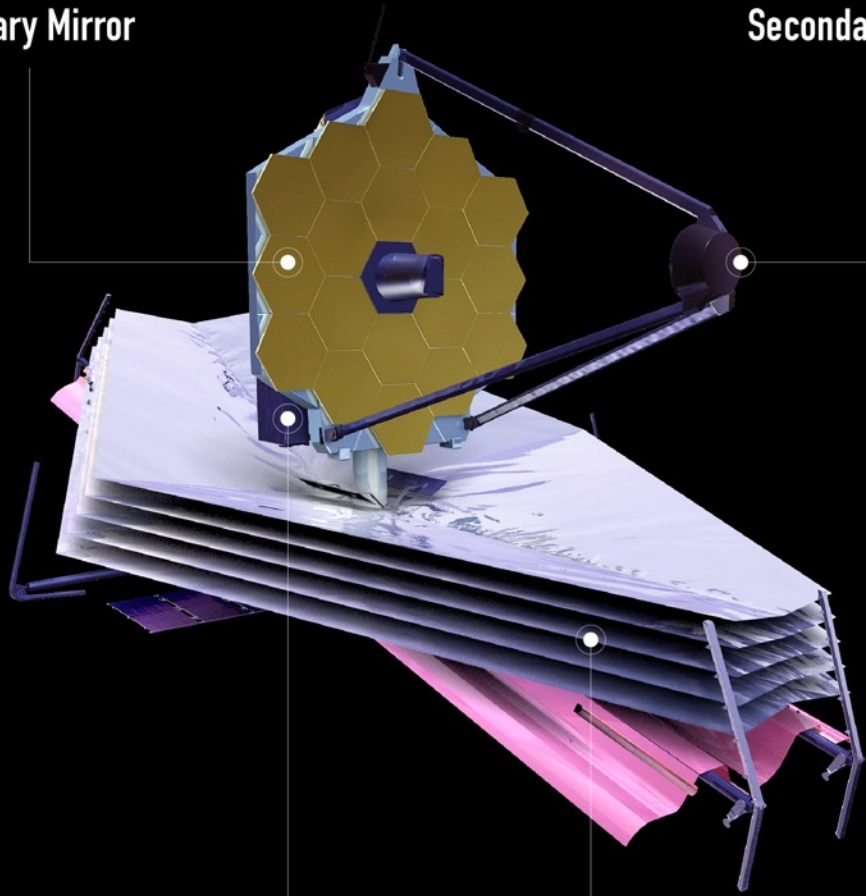
Observing Side

Primary Mirror

Secondary Mirror

Science Instruments

Multilayer Sunshield



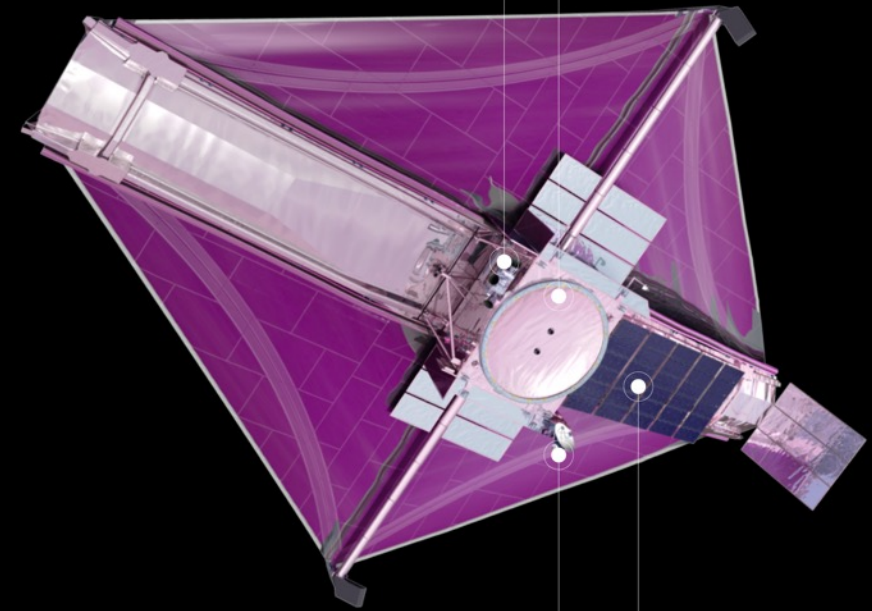
Sun-Facing Side

Star Trackers

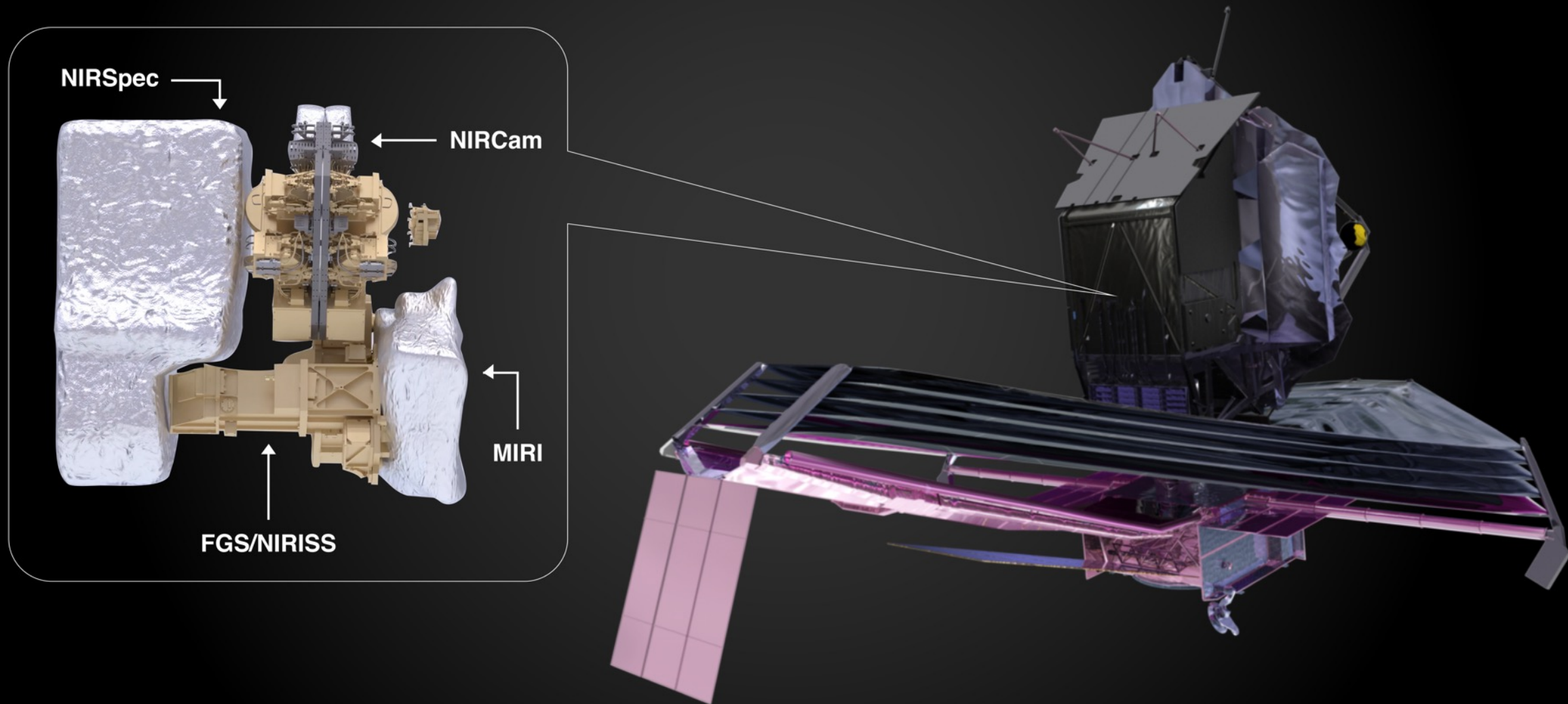
Steering and Control

Antenna Communicates
with Earth

Solar Power Array



Webb's Science Instruments

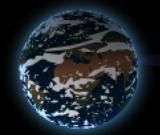


Why Study Infrared Light?

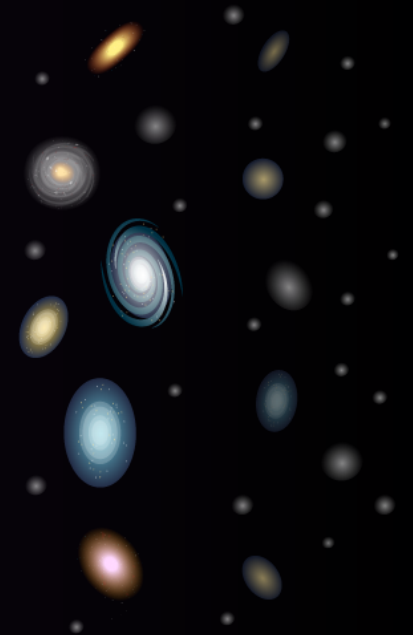
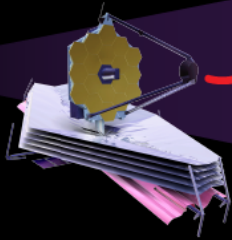


Observing the Ancient Universe

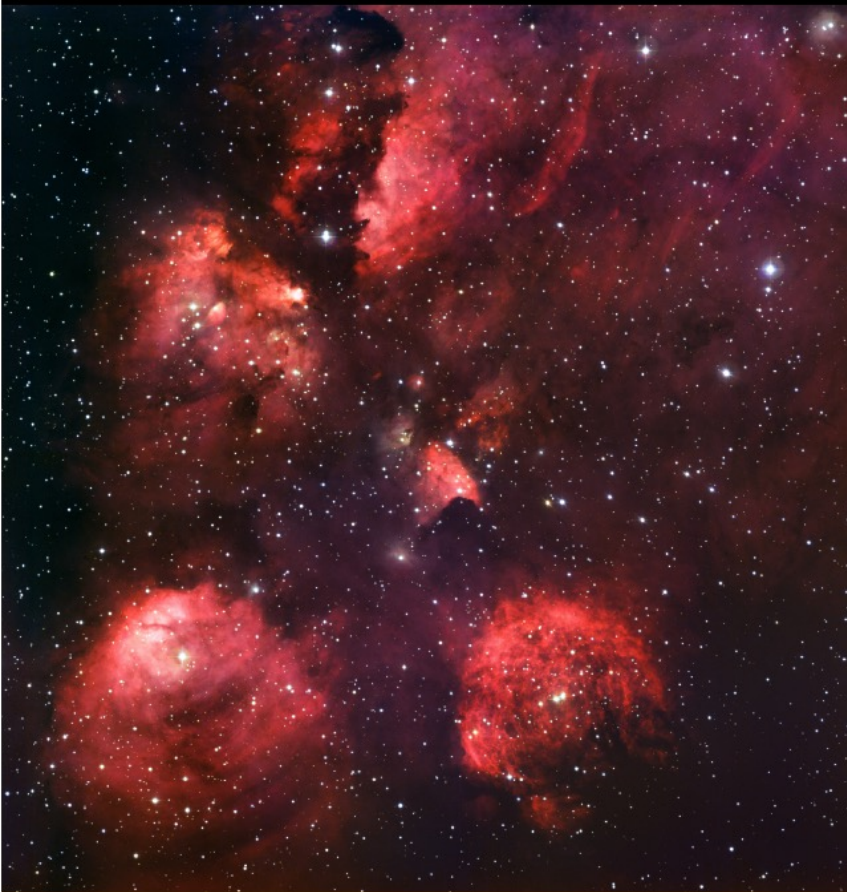
REDSHIFTED LIGHT FROM DISTANT GALAXIES



EARTH



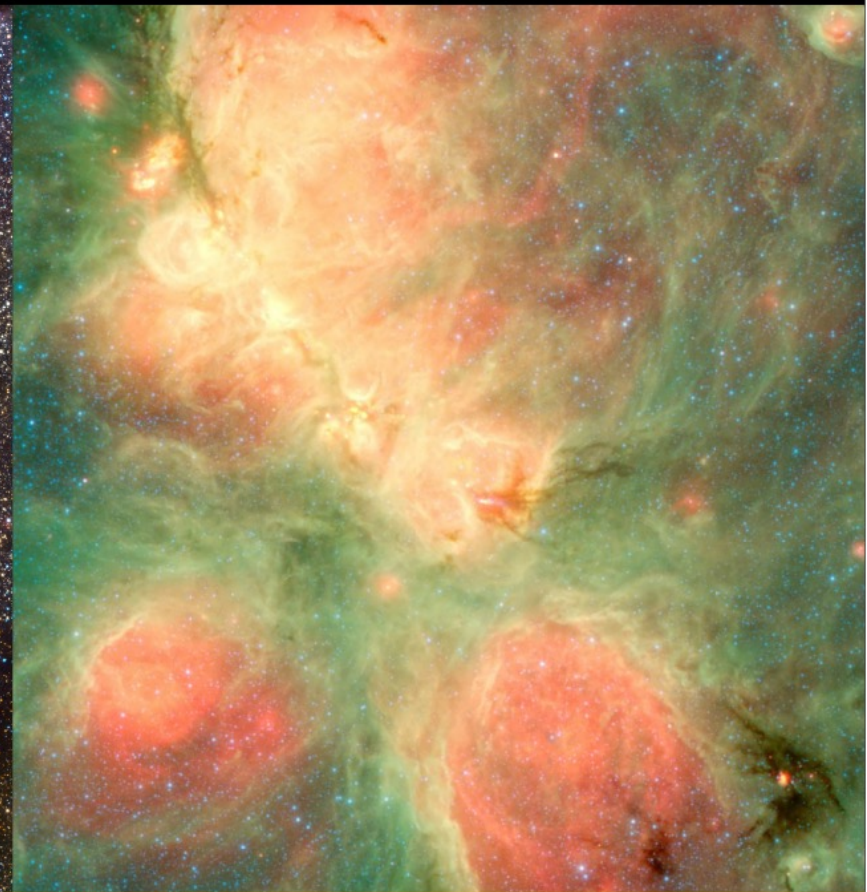
Webb Can Peer Through *and* Examine Dust



Visible Light (ESO)



Near-Infrared Light (ESO)



Mid-Infrared Light (Spitzer)

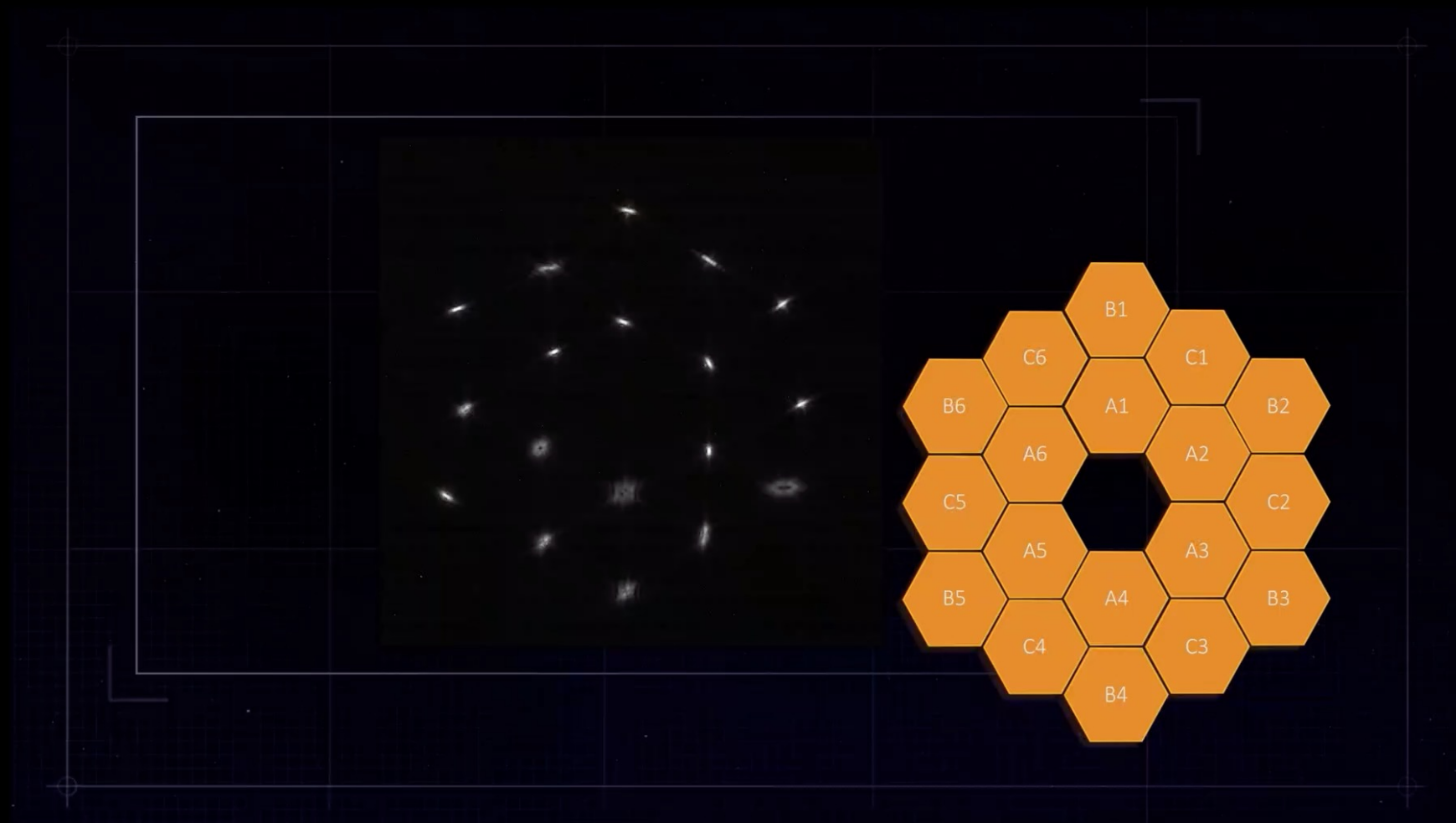


Segment Image Identification

INITIAL ALIGNMENT MOSAIC



Segment Alignment





ACTUAL WEBB ALIGNMENT DATA

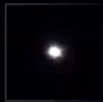
Image Stacking



Coarse Phasing



FINE PHASING



**Fine
Phasing**



Telescope Alignment Over Instrument Field of Views



ALIGNMENT OVER INSTRUMENT
FIELDS OF VIEW

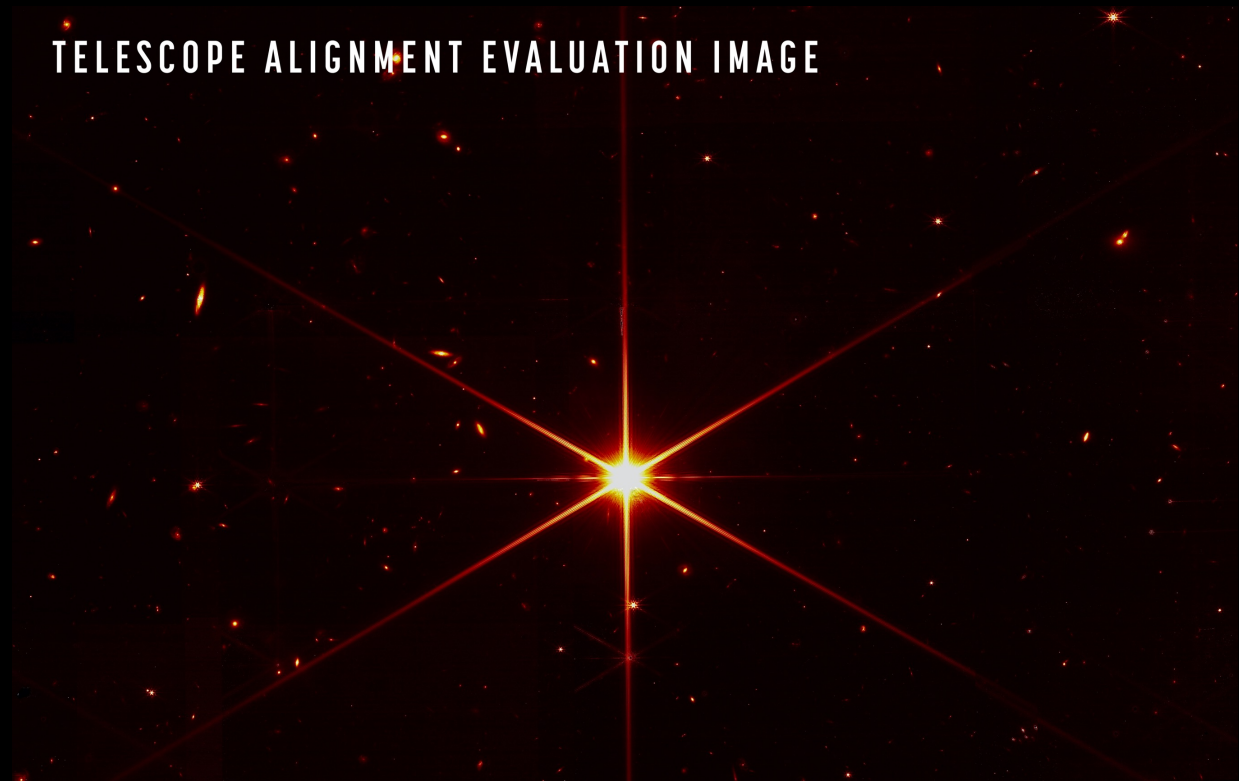
Simulation

Iterate Alignment For Final Corrections

PRIMARY MIRROR SELFIE



TELESCOPE ALIGNMENT EVALUATION IMAGE



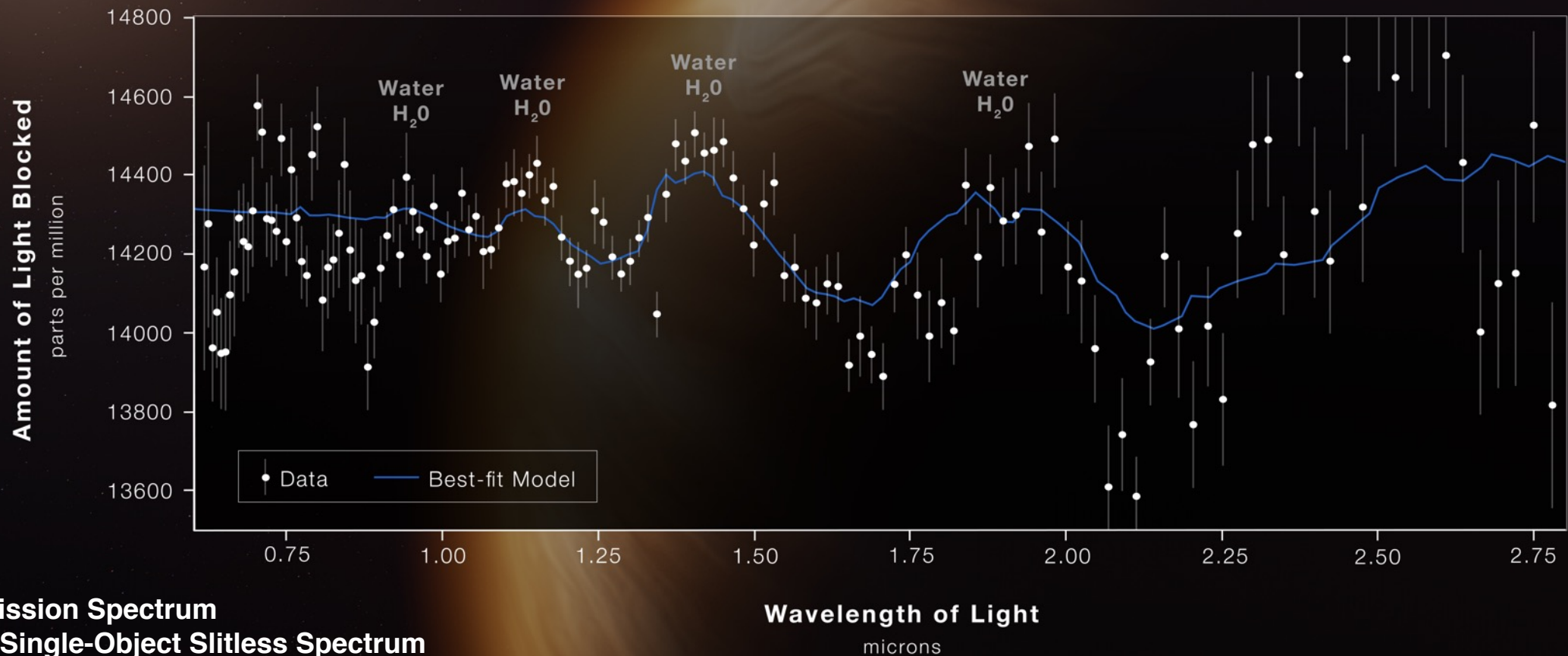
Webb's First Deep Field SMACS 0723

Near-Infrared Light
NIRCam Image





Exoplanet | WASP-96 b



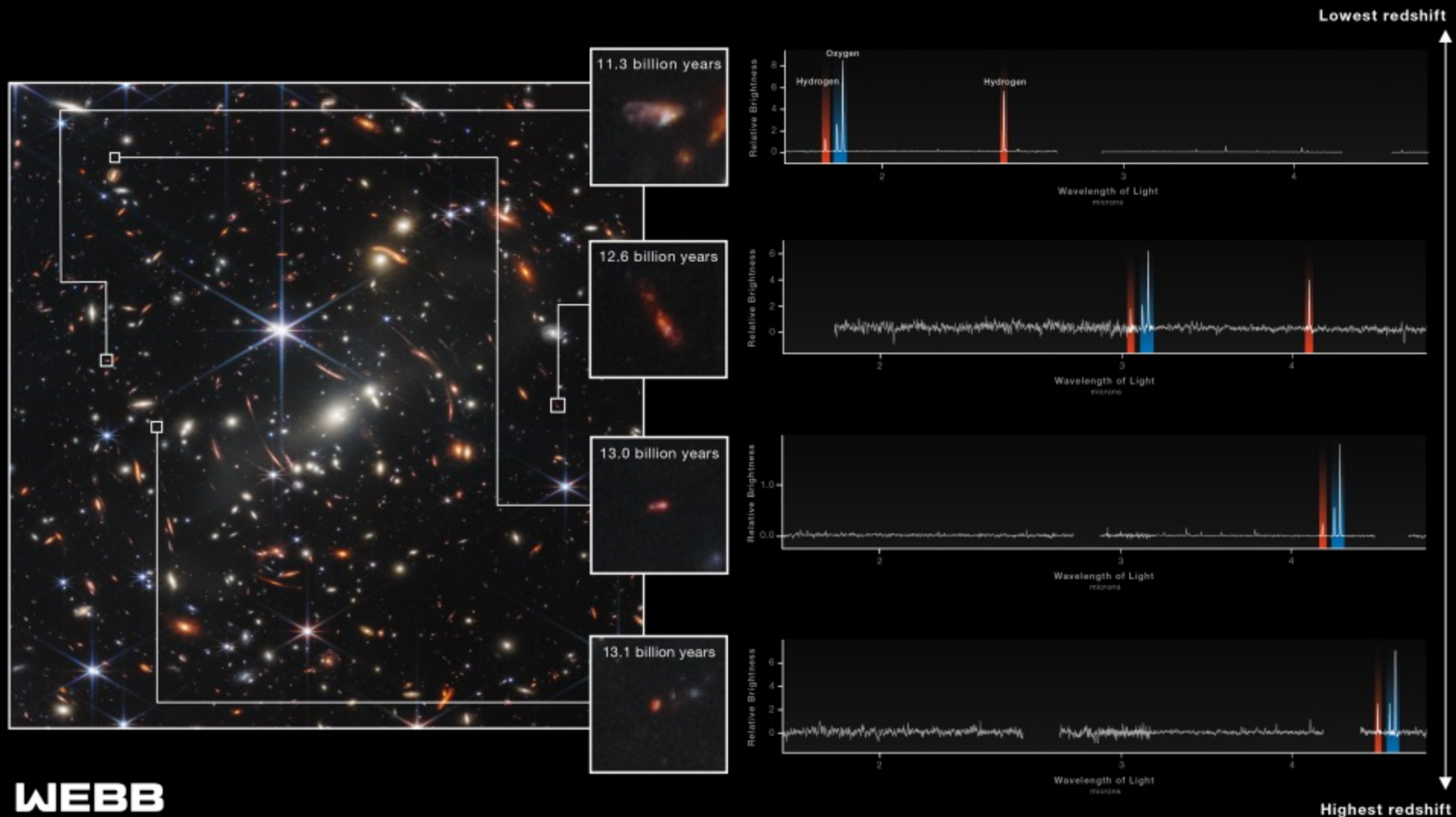
Transmission Spectrum
NIRISS Single-Object Slitless Spectrum

GALAXY CLUSTER SMACS 0723

WEBB SPECTRA IDENTIFY GALAXIES IN THE VERY EARLY UNIVERSE

NIRCam Imaging

NIRSpec Microshutter Array Spectroscopy



Planetary Nebula | Southern Ring Nebula



Near-Infrared Light
NIRCcam Image



Mid-Infrared Light
MIRI Image

Interacting Galaxies Stephan's Quintet

Near- and Mid-Infrared Light
Combined NIRCam and MIRI Image





WR 124 Nebula

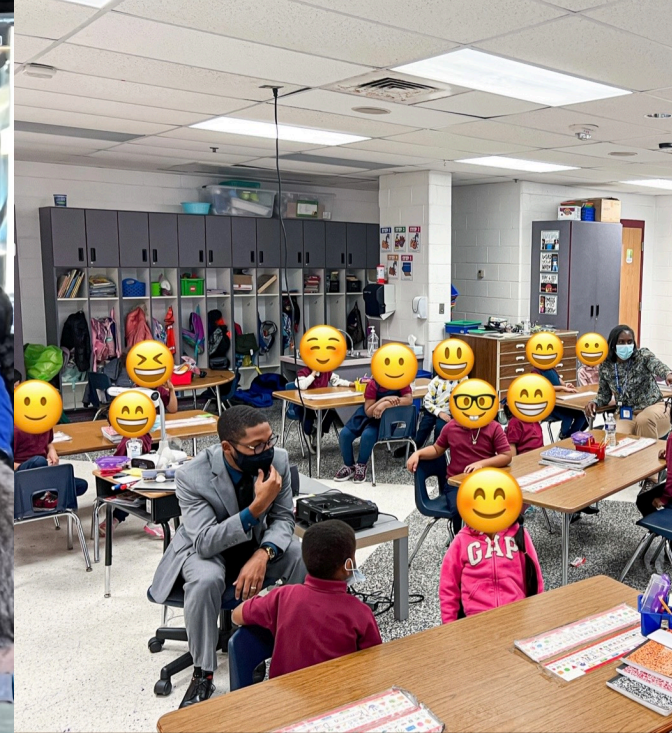
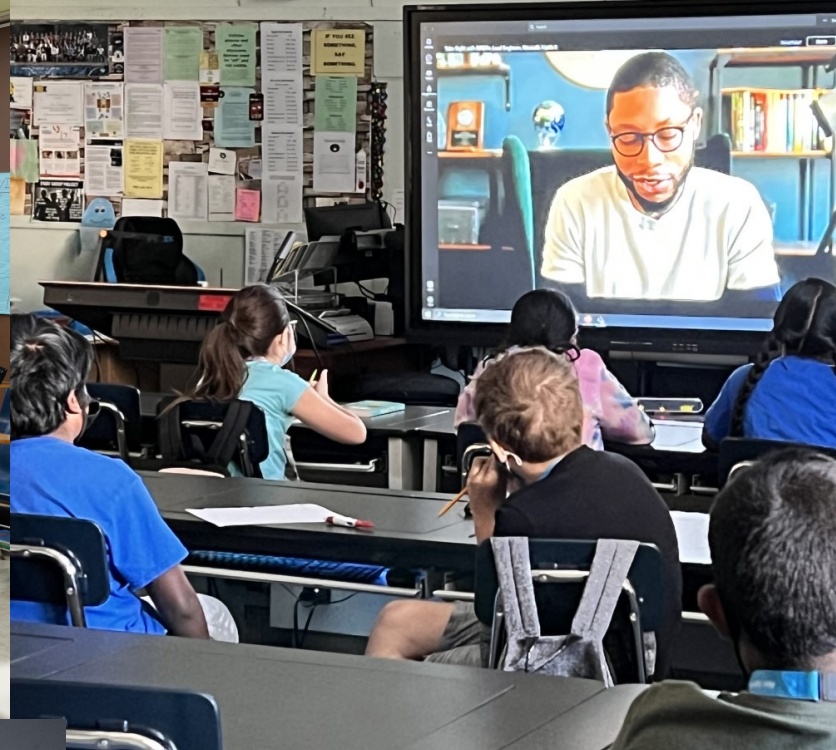
Wolf-Rayet Star

**Near- and Mid-Infrared Light
Combined NIRCam and MIRI Image**









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