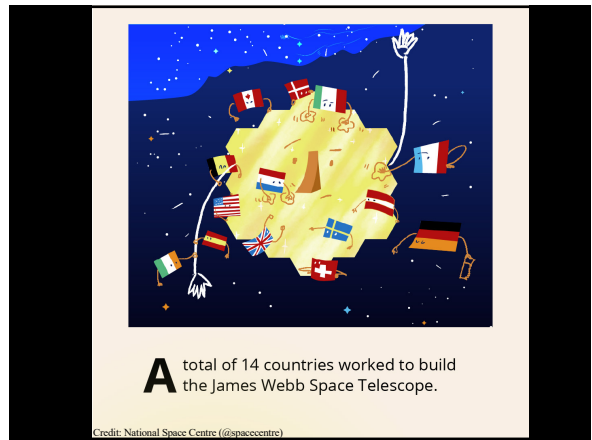




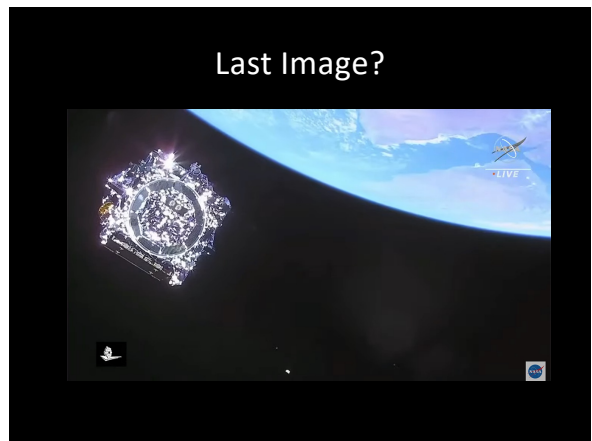
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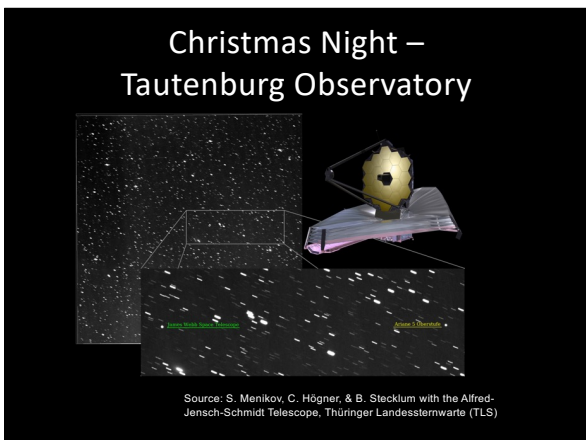
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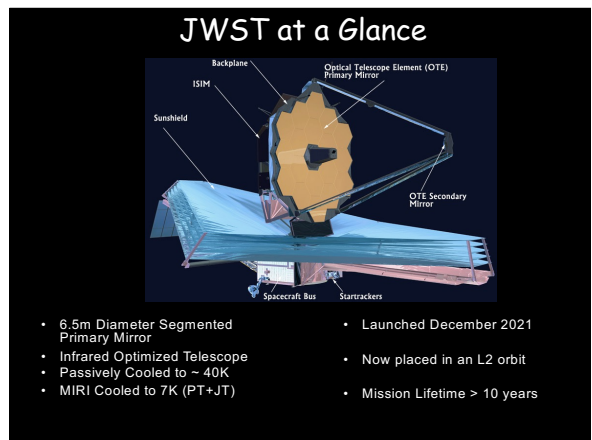
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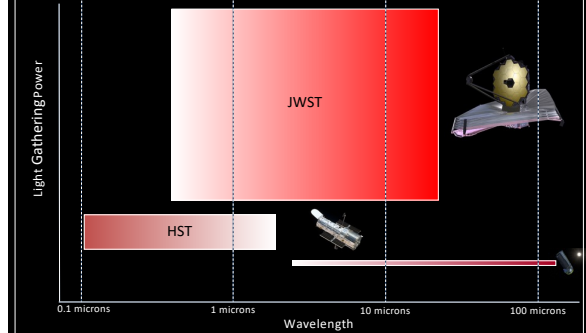
6

## The JWST Mission

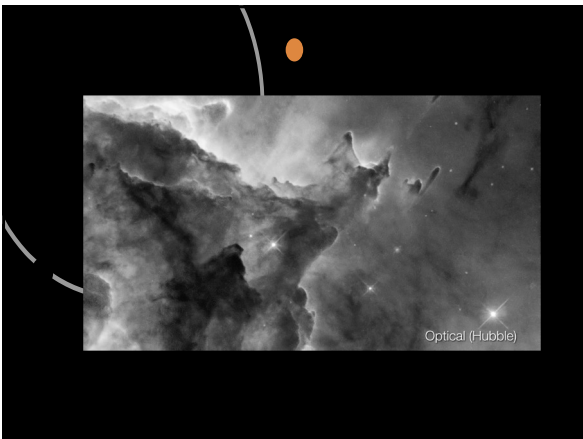
- JWST was constructed as a collaboration between NASA, ESA and CSA
  - Europe was guaranteed a minimum of 15% of the observing time but ...
- Largest space telescope and mission ever launched
- Mission Lead: Goddard Space Flight Center
- Prime Contractor: Northrop Grumman
- Operations: Space Telescope Science Institute
- Optimized for infrared observations (0.6 – 28  $\mu\text{m}$ )

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## JWST, HST & Spitzer

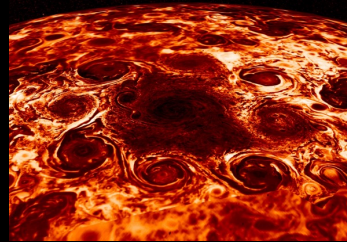


8



9

Any Guesses?



10

A Long Time Coming!



11

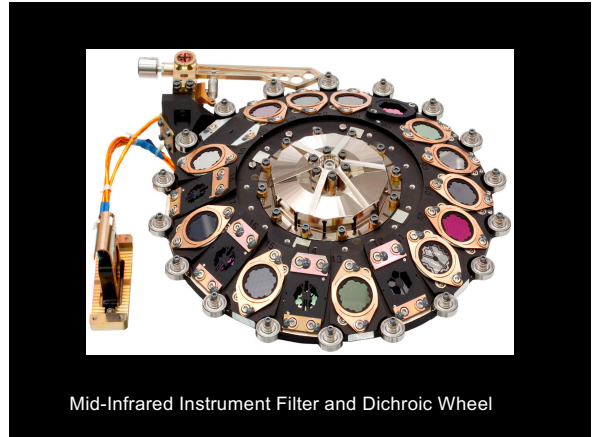


JWST Life-size Model in the Royal Hospital Kilmainham, Dublin

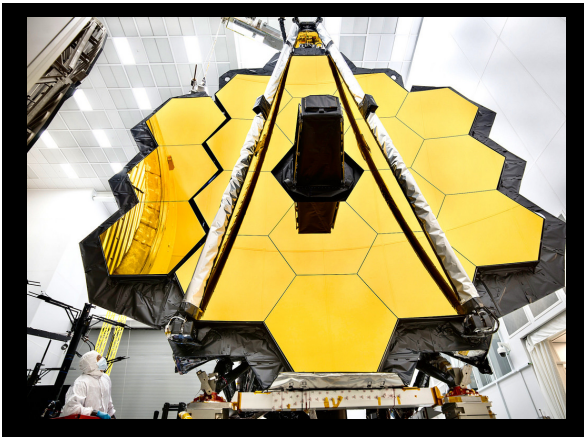
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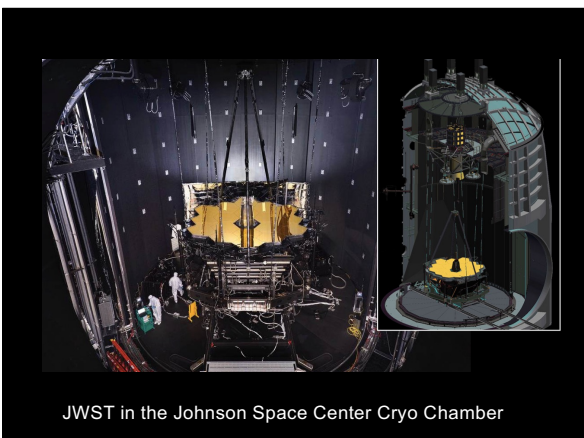
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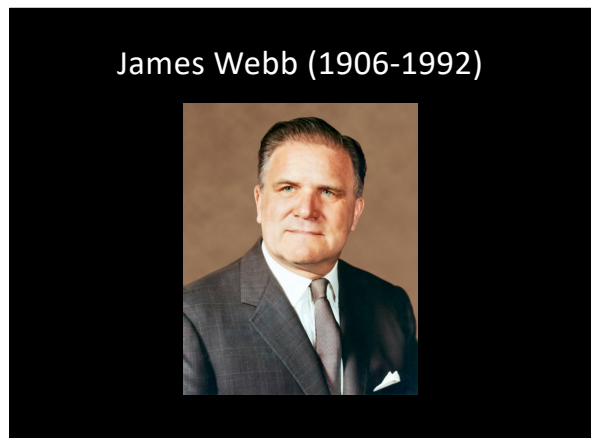
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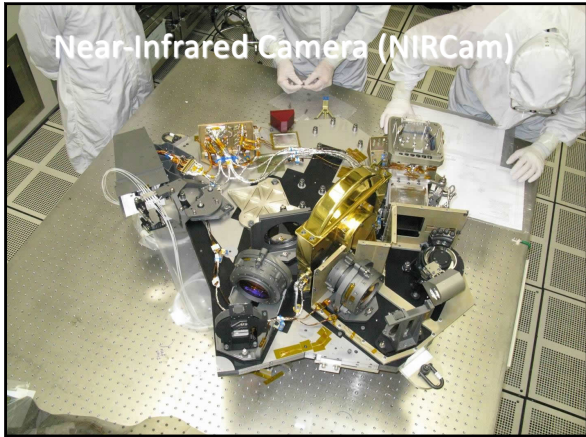
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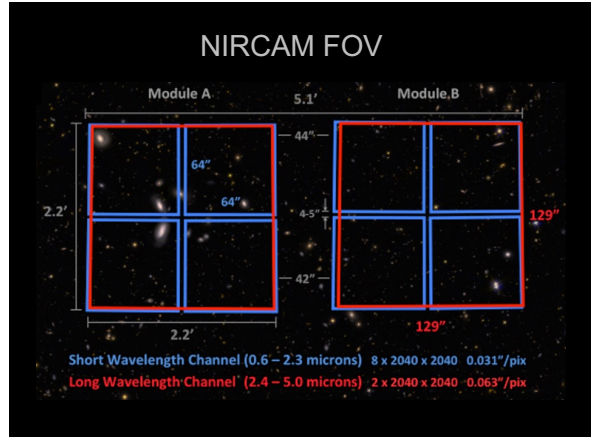
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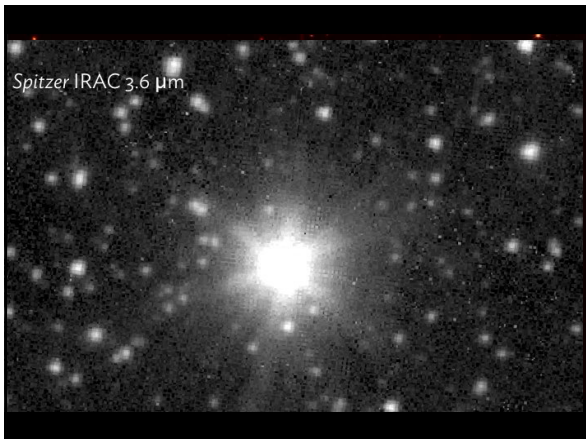
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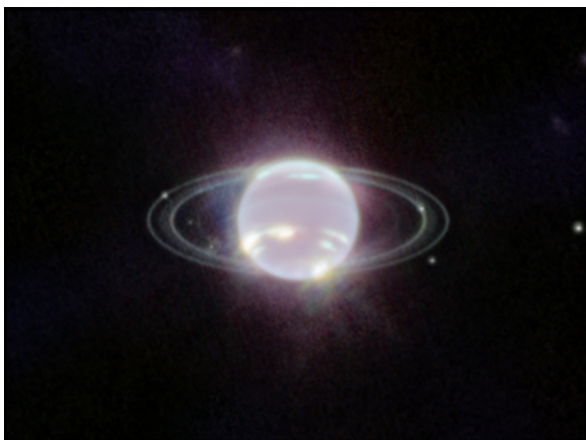
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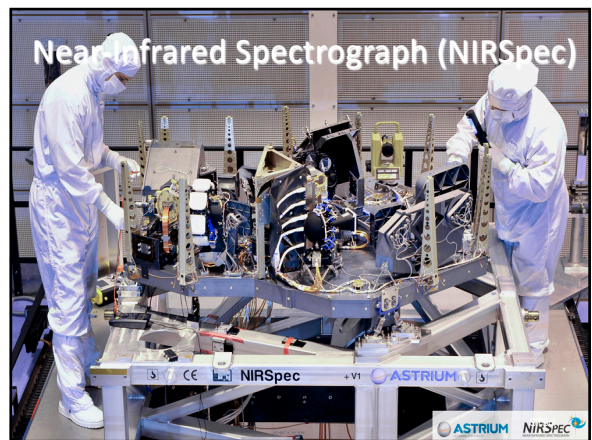
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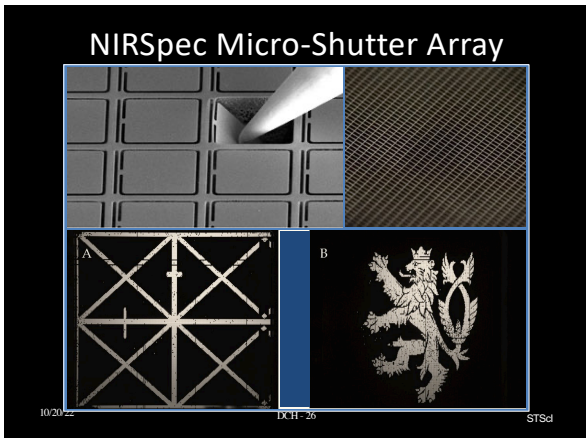
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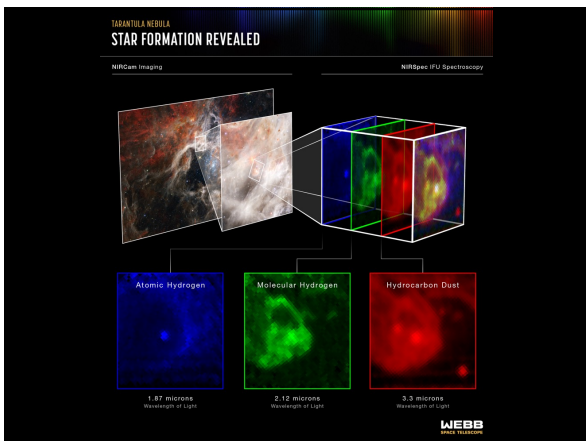
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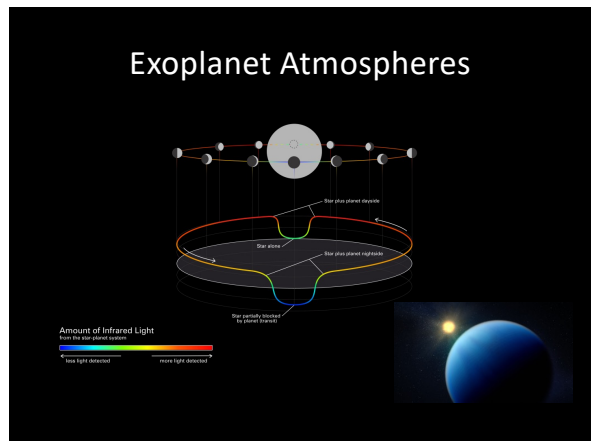
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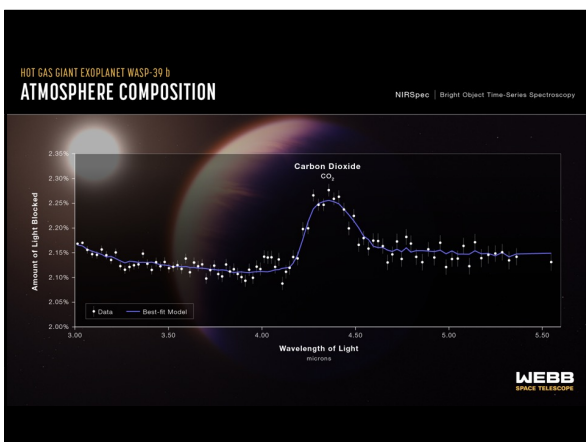
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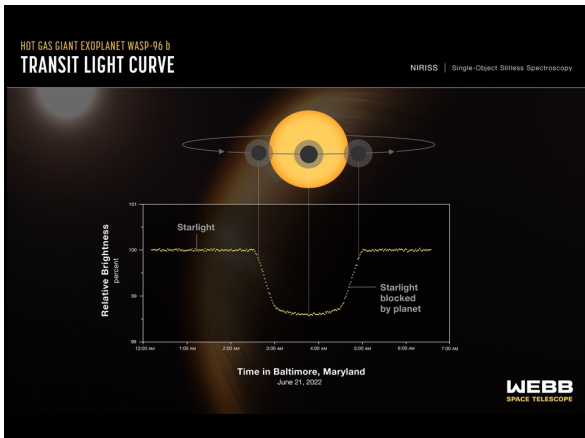
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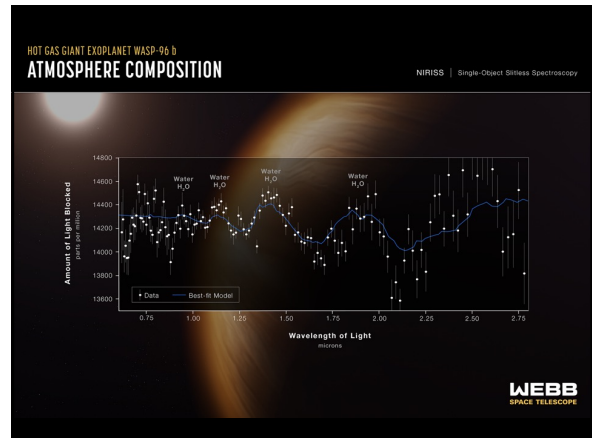
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**MIRI Details**

- Imaging with 9 wavebands from 5 to 28  $\mu\text{m}$
- Coronagraphic Imaging at 10.65, 11.4, 15.5 and 23  $\mu\text{m}$
- Diffraction Limited at 7  $\mu\text{m}$  (pixels are  $\sim 0.11''$ )
- Medium Resolution Spectroscopy using 4 IFUs: entire spectrum from 4.9 to 28.8  $\mu\text{m}$
- LR Spectroscopy 5-10  $\mu\text{m}$

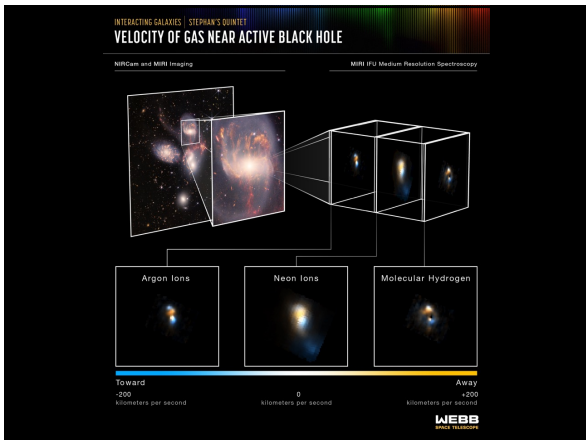
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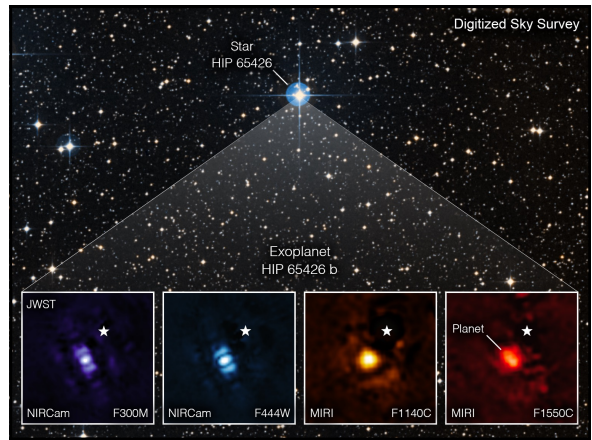
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37



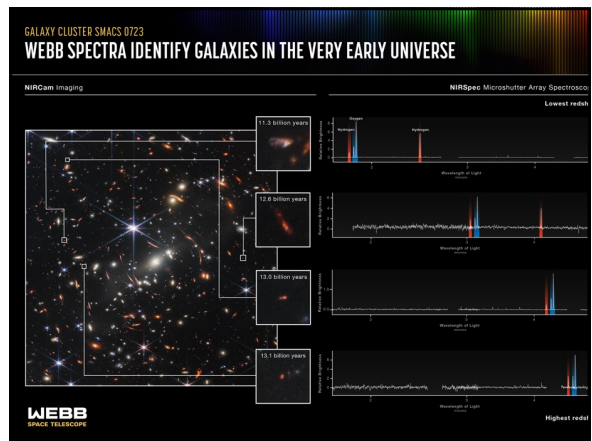
38



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## Conclusions

- JWST has been launched and deployed!
- All instruments are working well
- JWST will dominate astronomy in the next decade +7 due to its unique capabilities!
- High impact science is now being produced with many teams producing the first tranche of papers expected in the next few weeks

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