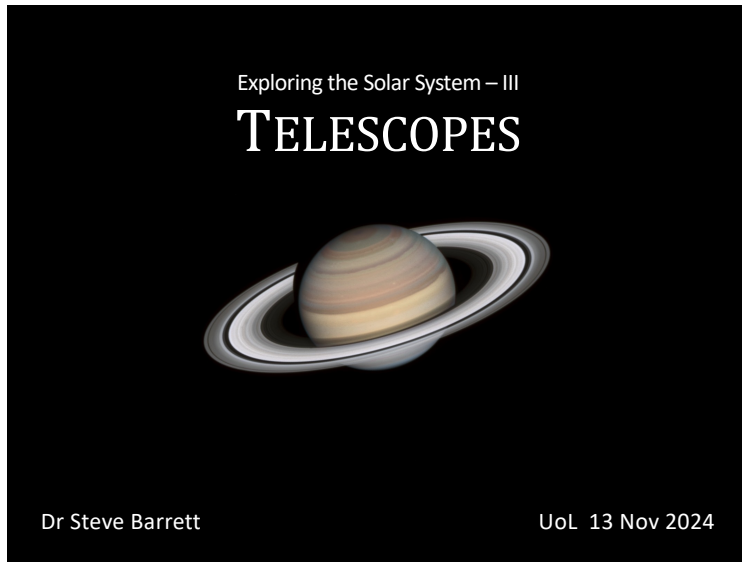


Exploring the Solar System III – Telescopes



Exploring the Solar System III **Telescopes**

400 Years of Telescopes

First Views

Latest Views

What Next?

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2

Keeping an Eye on the Universe

Galileo 1620

Hooker 1918

Hale 1948

EELT 2027

HST 1990

JWST 2021

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Galileo and Jupiter's Moons


" ... our own eyes show us four stars which wander around Jupiter as does the Moon around the Earth "

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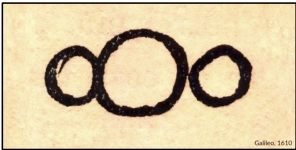
4

Exploring the Solar System III – Telescopes

Galileo and Saturn



" The first sight that I had of Saturn was of three round stars ... that in the middle considerably larger than the two lateral ones "

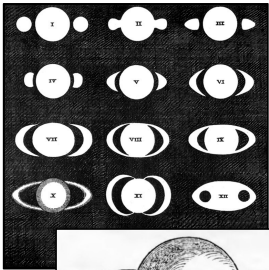
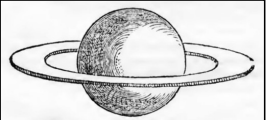


Galileo 1610


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The Shape of Saturn

Huygens 1659



Galileo 1610




Hubble 2003

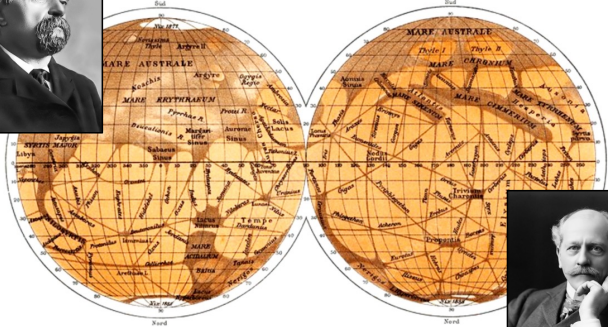

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Canals on Mars



Schiaparelli 1880s





Lowell 1890s

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7

Canals on Mars



" ... there can be no doubt that living beings inhabit our neighbor world "

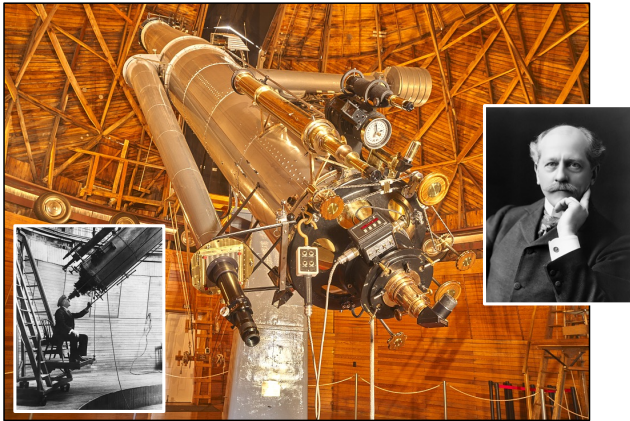
Lowell 1906

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Exploring the Solar System III – Telescopes

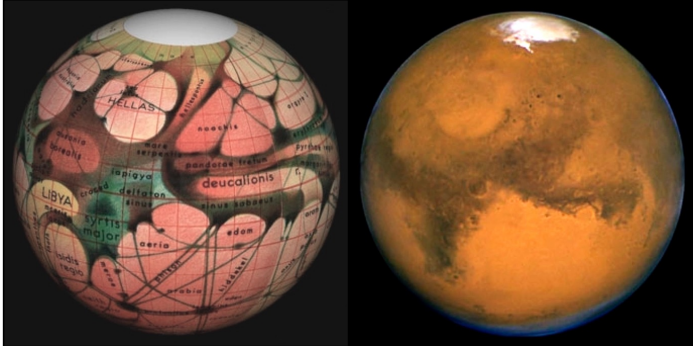
Lowell Observatory



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Canals on Mars



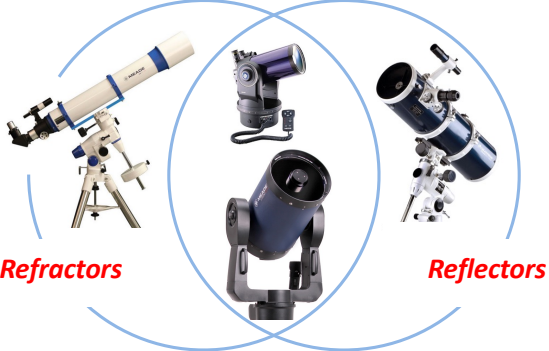
Antoniadi 1894

Hubble 2003

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Amateur Telescopes



Refractors

Reflectors


"Cats"

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Amateur Telescopes

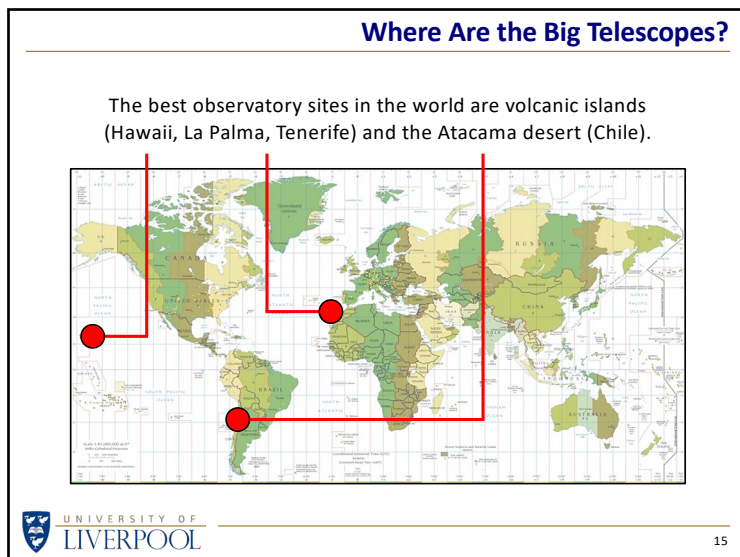
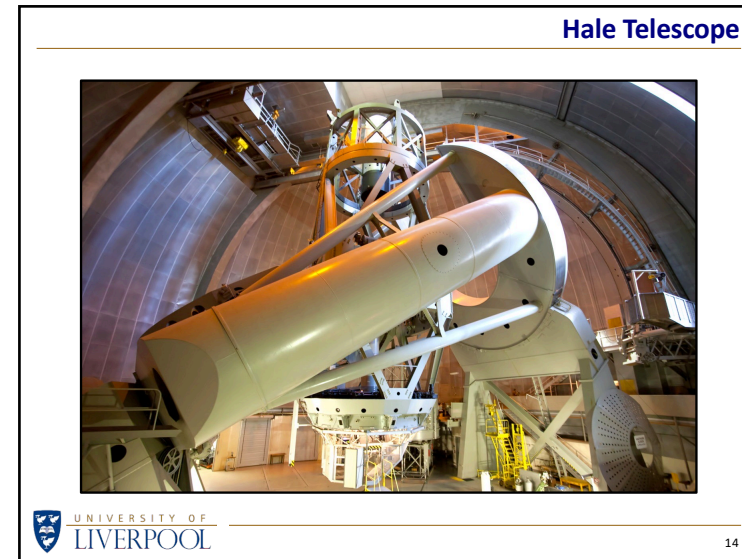
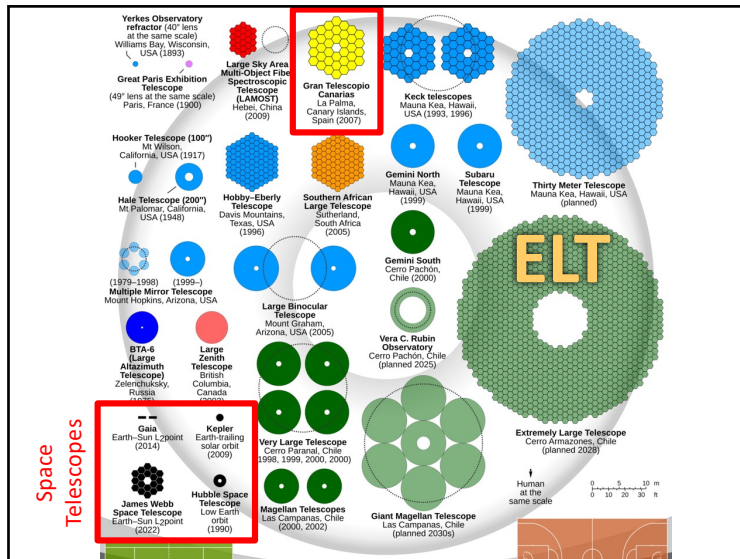
Some amateur telescopes are very big and very expensive.



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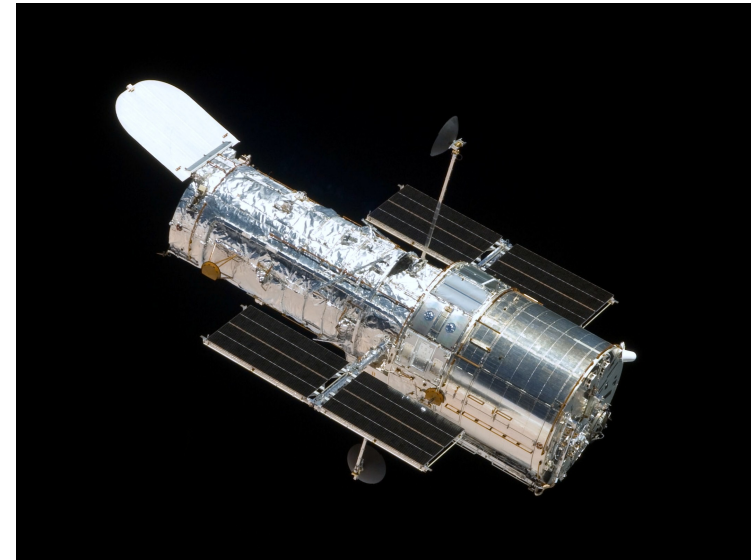
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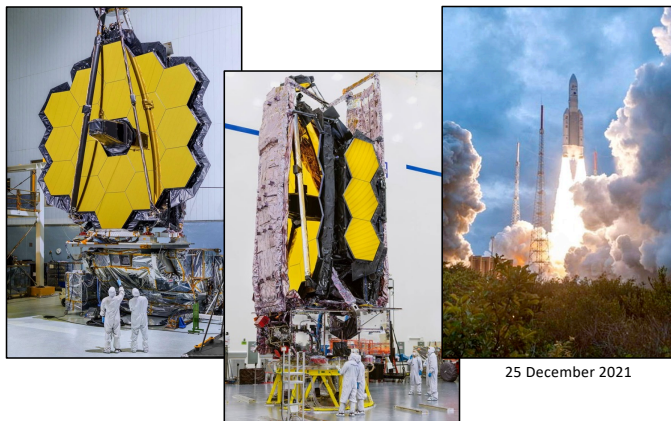


Exploring the Solar System III – Telescopes

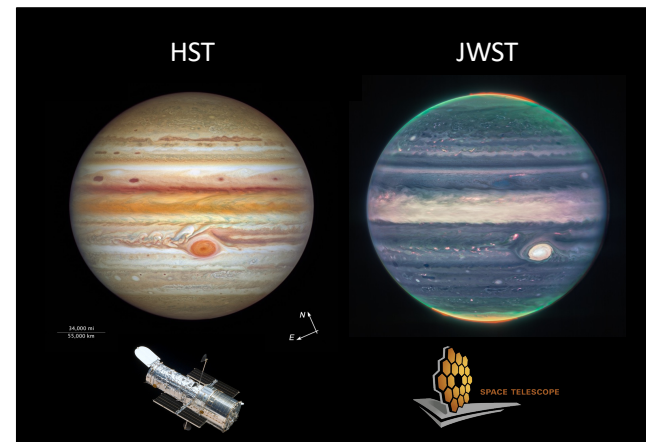
Higher Than a Mountain Top



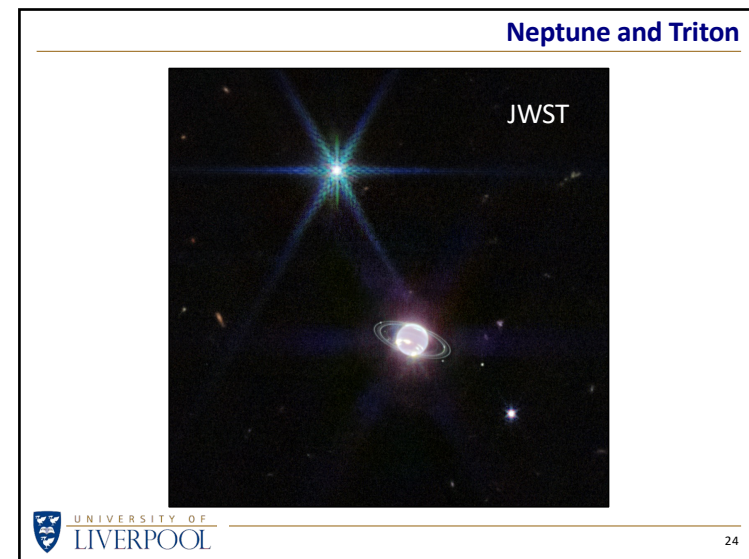
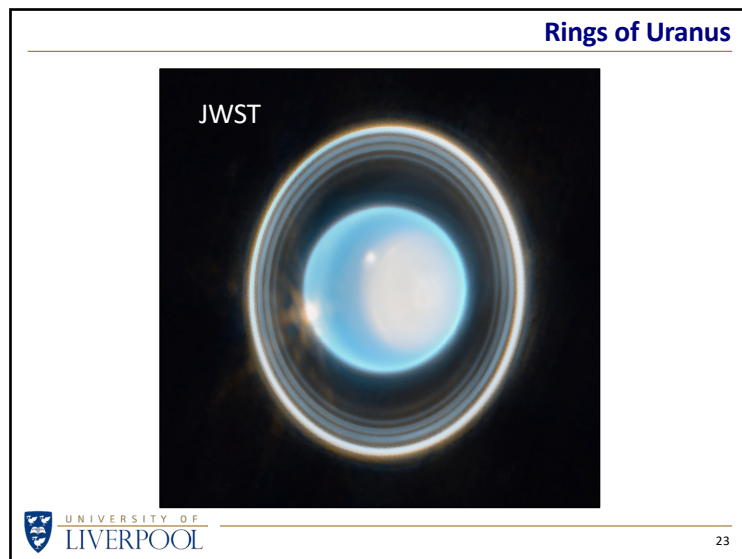
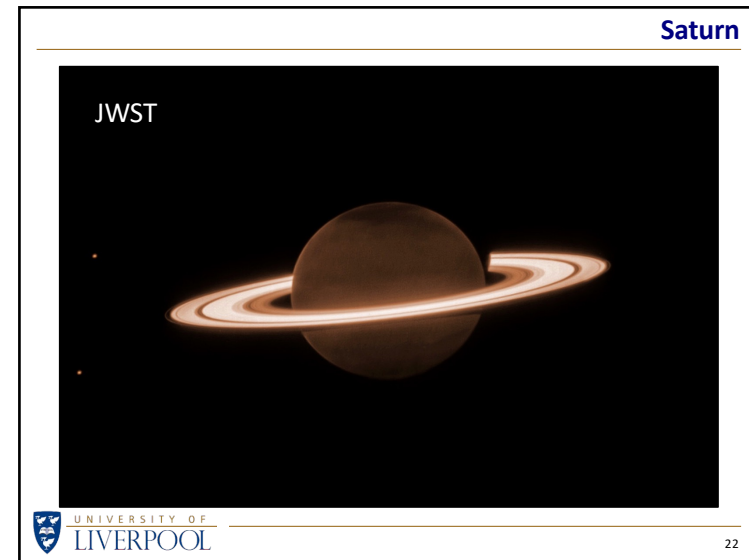
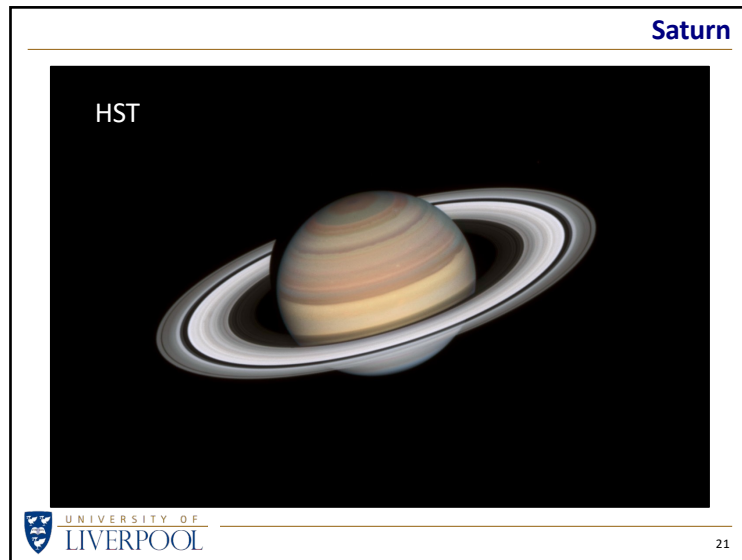
James Webb Space Telescope



Jupiter



Exploring the Solar System III – Telescopes



Exploring the Solar System III – Telescopes

Under Construction – LSST

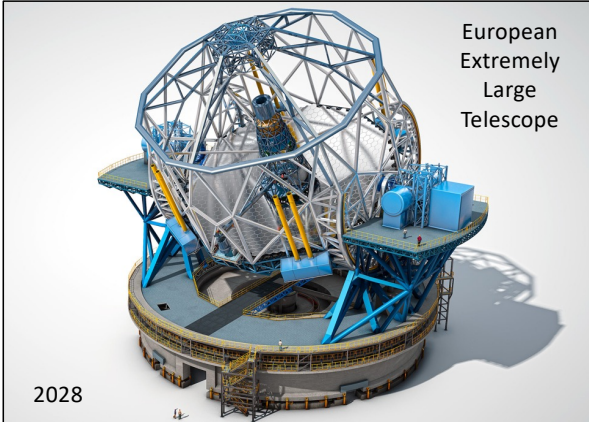


Legacy Survey of Space and Time
2025-2035

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Under Construction – EELT



European Extremely Large Telescope
2028

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Want To Know More?



HubbleSite.org WebbTelescope.org


LSST.org ELT.ESO.org

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Exploring the Solar System – III

TELESCOPES



www.liverpool.ac.uk/~sdb/Talks

Dr Steve Barrett UoL 13 Nov 2024