

The Universe Around Us



Ancient Astronomy



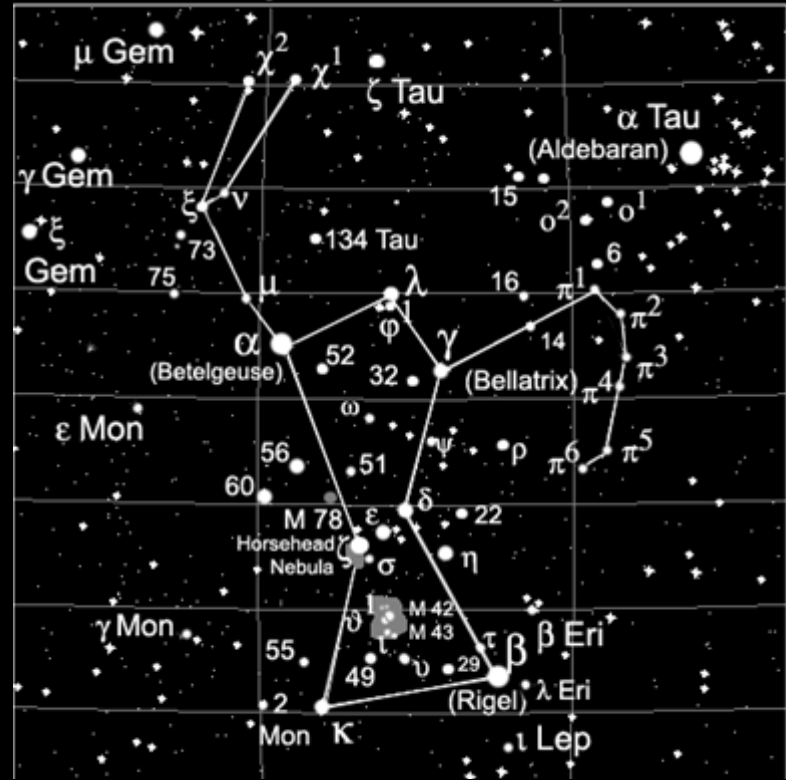
constellations



constellations



Orion

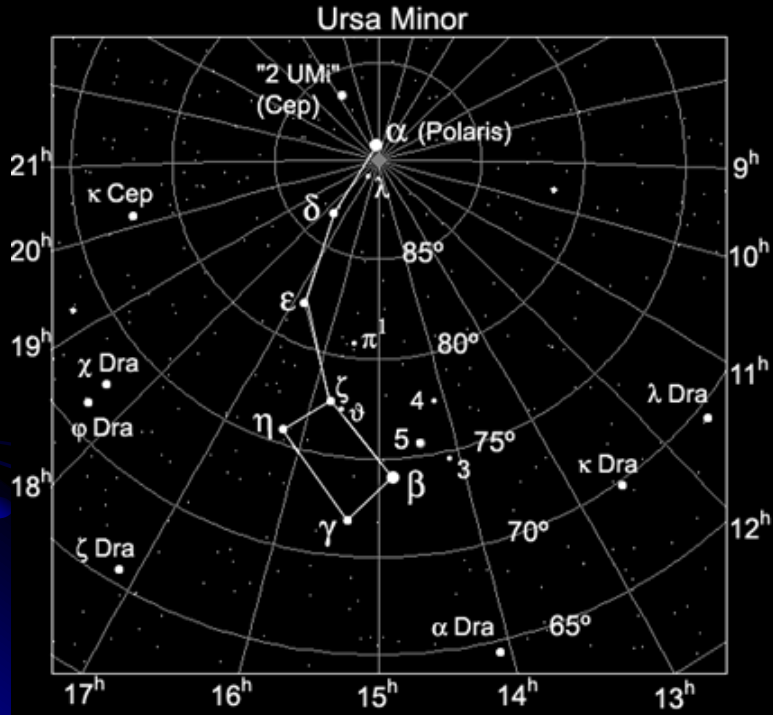


"The Hunter"

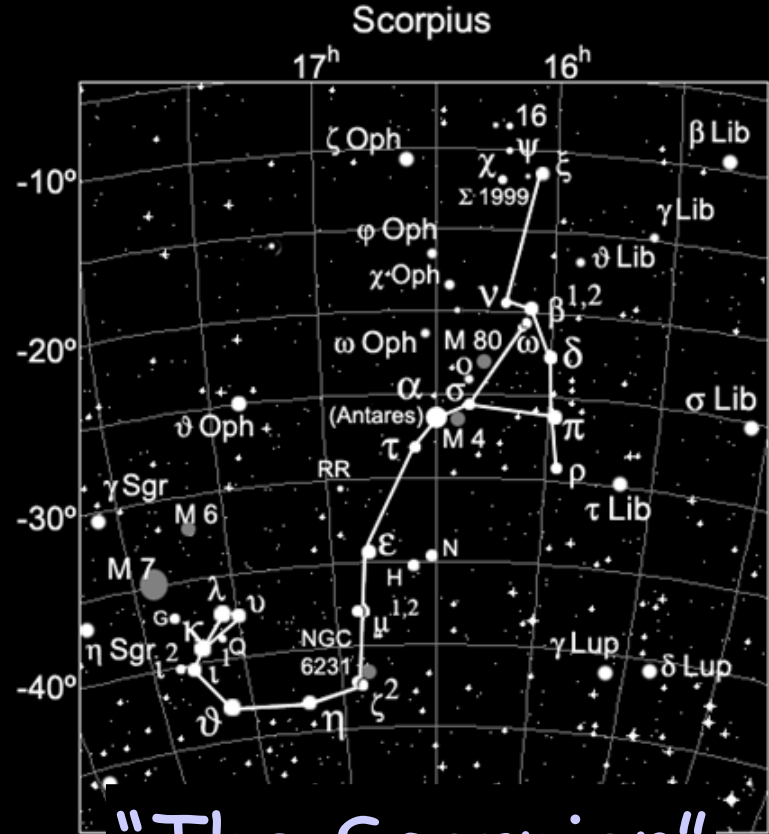
constellations



constellations

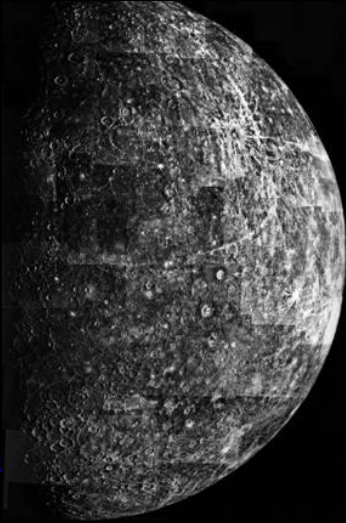


"Little Dipper"



"The Scorpion"

Planets – “The Wanderers”



Mercury

Mercury

Messenger God



Venus

Love Goddess

Planets – “The Wanderers”



Earth

Earth



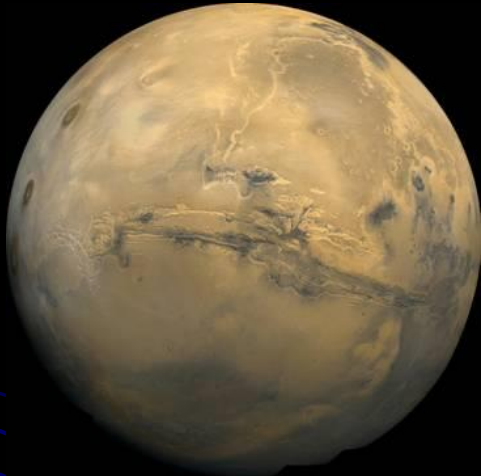
Mosaic of the near side of Earth's moon

Moon

Luna

Moon Goddess

Planets – “The Wanderers”



Mars

Mars

God of War



Jupiter

Planets – “The Wanderers”



Saturn

Harvest God



Uranus

God of the Sky

Planets – “The Wanderers”



Neptune

God of the Sea



Pluto & Charon

God of the Underworld
& River Styx “Ferryman”

Polaris – the north star

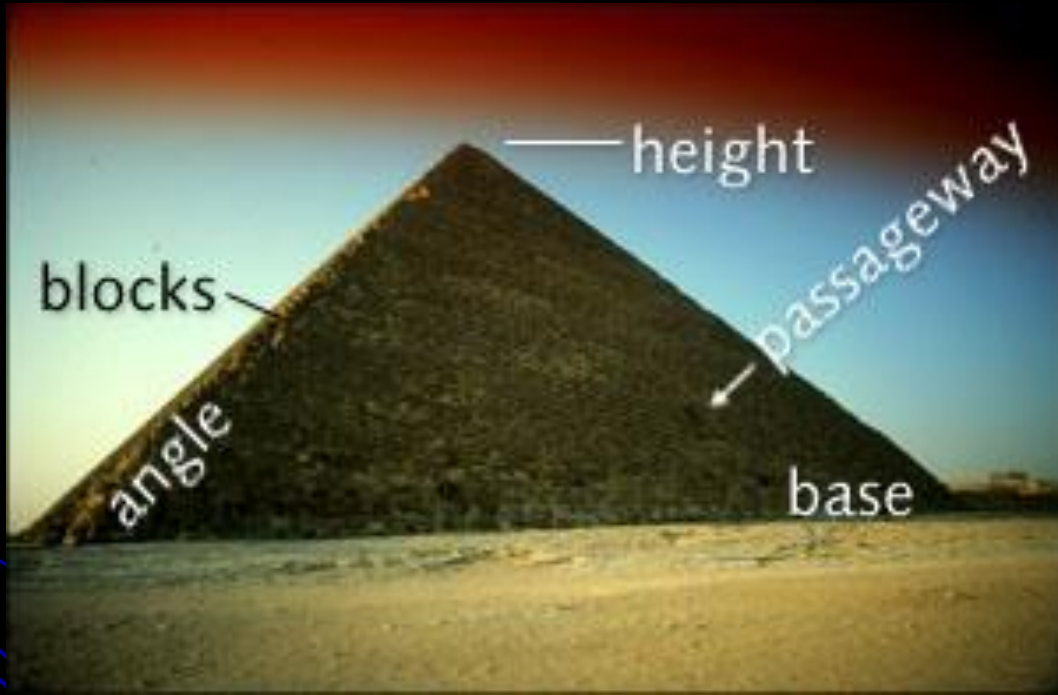


Polaris



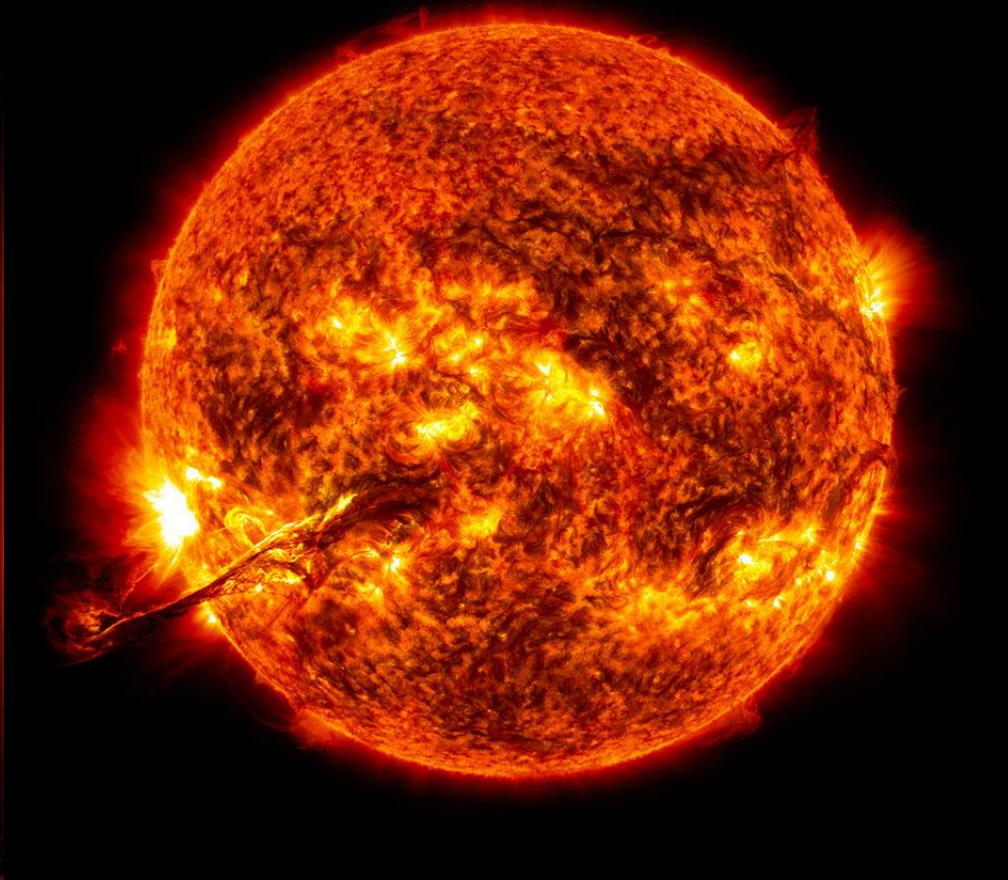
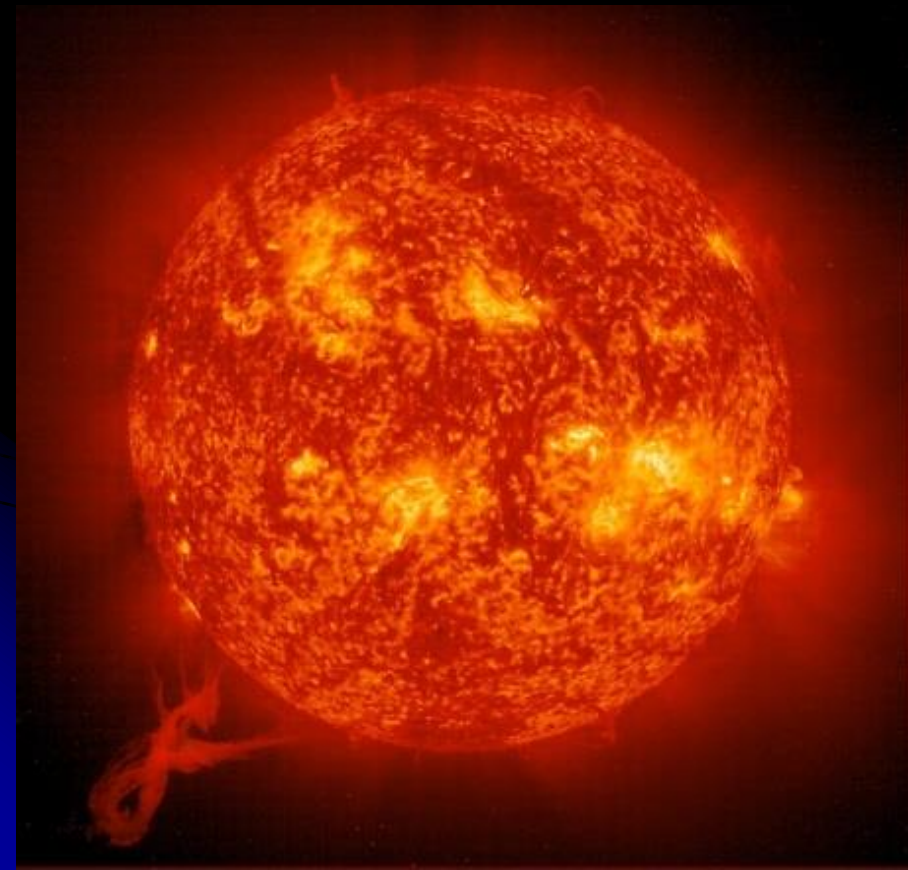
[Click here for Time Lapse!!](#)

Great Pyramid of Giza



Passageway points up at the **North Star**.

Solar Observers

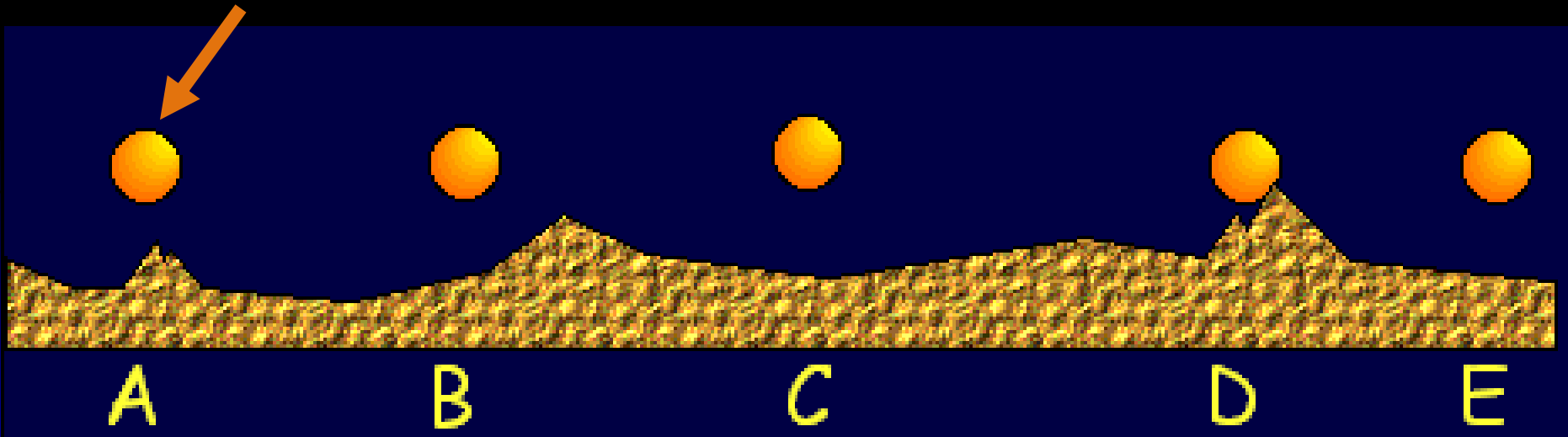


Solar Observatories

- Prehistoric "observatories" were built to study the movement of the **sun**, especially on **Summer Solstice***.
- *Summer Solstice is the **first** day of **summer** (usually 6-21 or 6-22).
- *Summer solstice is the longest daylight of the year.

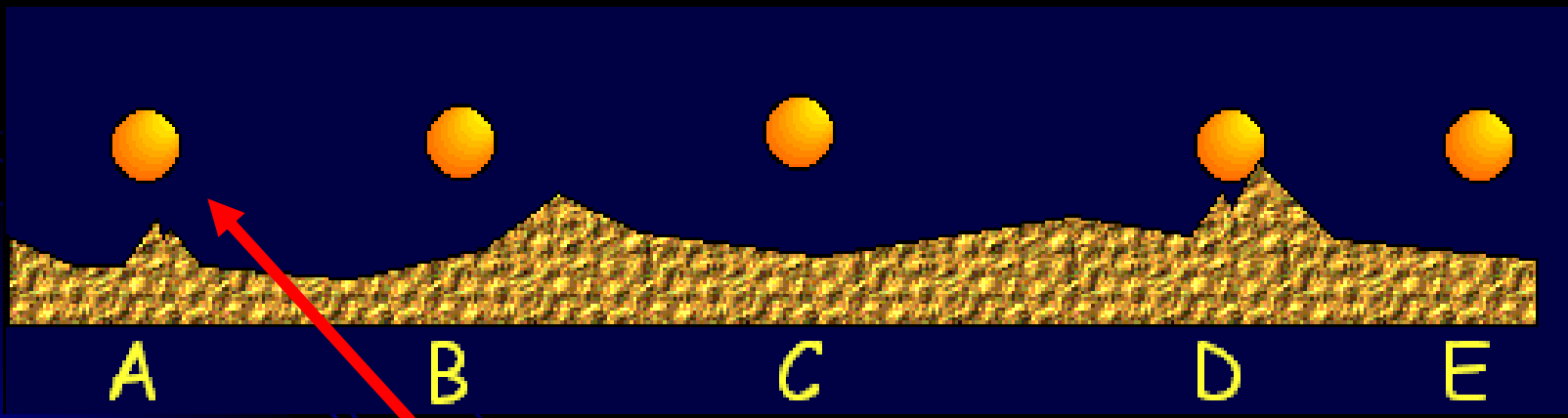
Summer Solstice

Which letter below shows the position at which the sun will rise on **Summer Solstice**?



Summer Solstice

- The sun rises at its **northernmost** point on the horizon, so it was easy to determine the day that the sun reached that point.

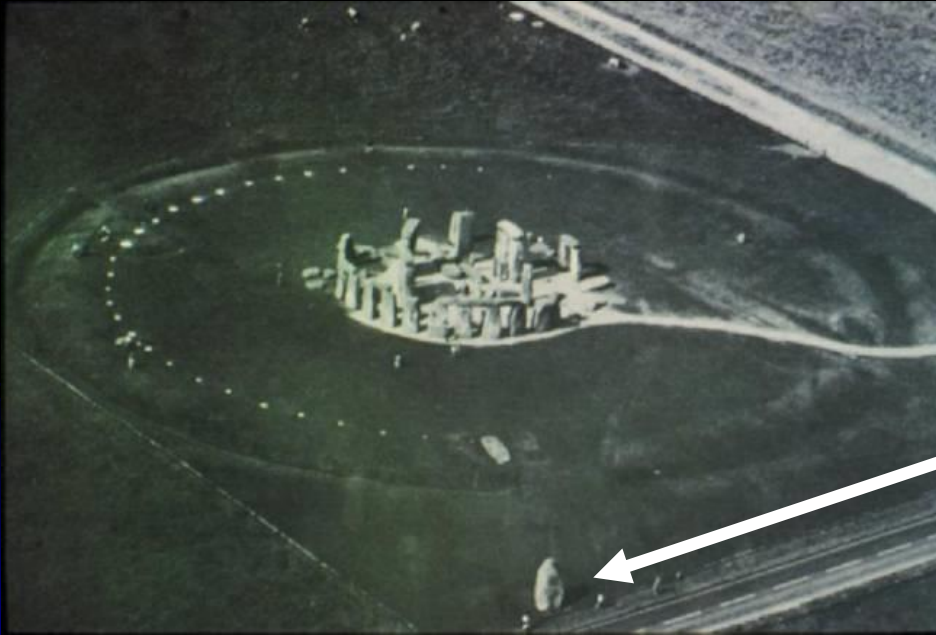


Summer Solstice

Stonehenge



Stonehenge

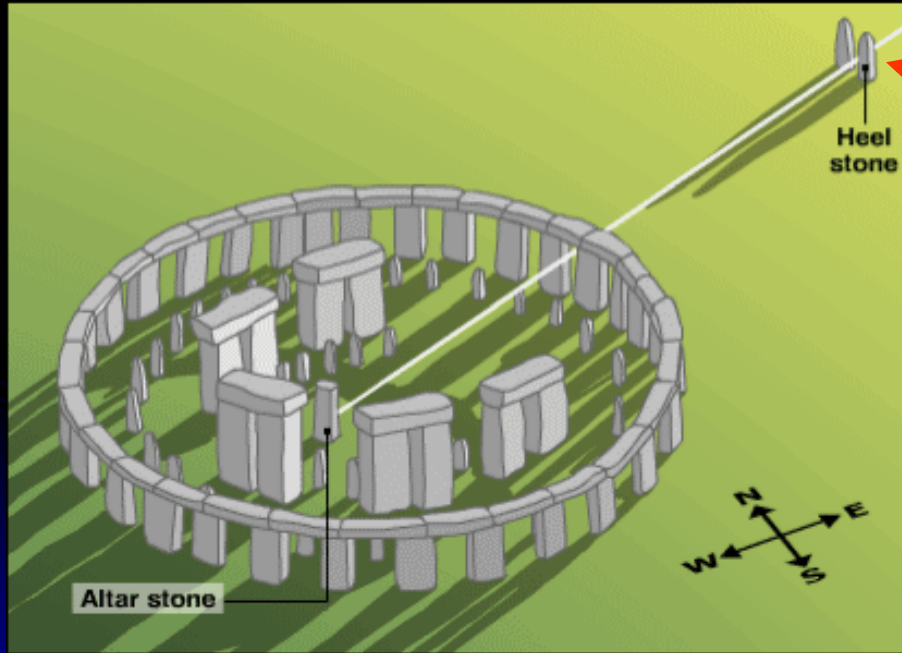


Heelstone



Sun rises over "Heelstone"
on Summer Solstice.

Stonehenge



Heelstone

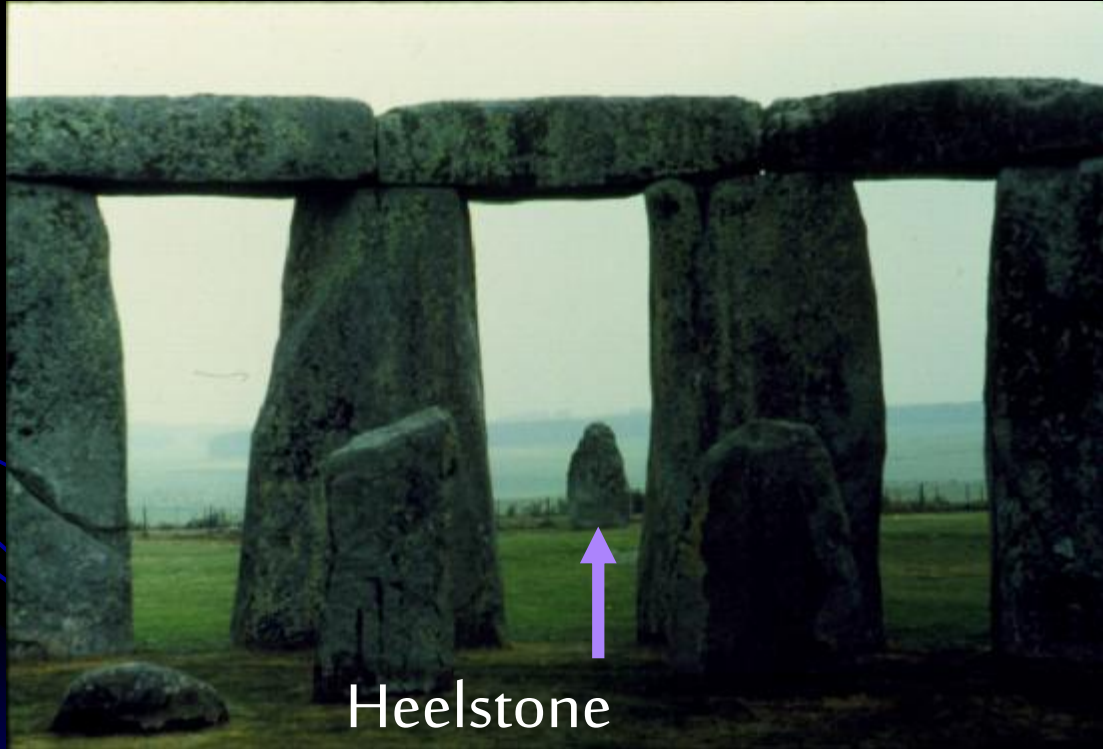


Sun rises over "Heelstone" on Summer Solstice.

Stonehenge



[Click here for
Video -
"Summer
Solstice 2014"](#)



Heelstone

Temple of Karnak



Entire length of
main hallway is
illuminated at
sunset on Summer
Solstice.

Caracol Temple – Chichen Itza, Mexico



Temple of the sun machu Picchu, peru



Medicine Wheel, Wyoming



Sundance Lodge



Land of the Midnight Sun

- **At summer solstice past the Arctic Circle, the sun never sets (and never really rises either!!).**



Land of the Midnight Sun

- Which set of timelapse photos was taken at a higher latitude (farther north)?



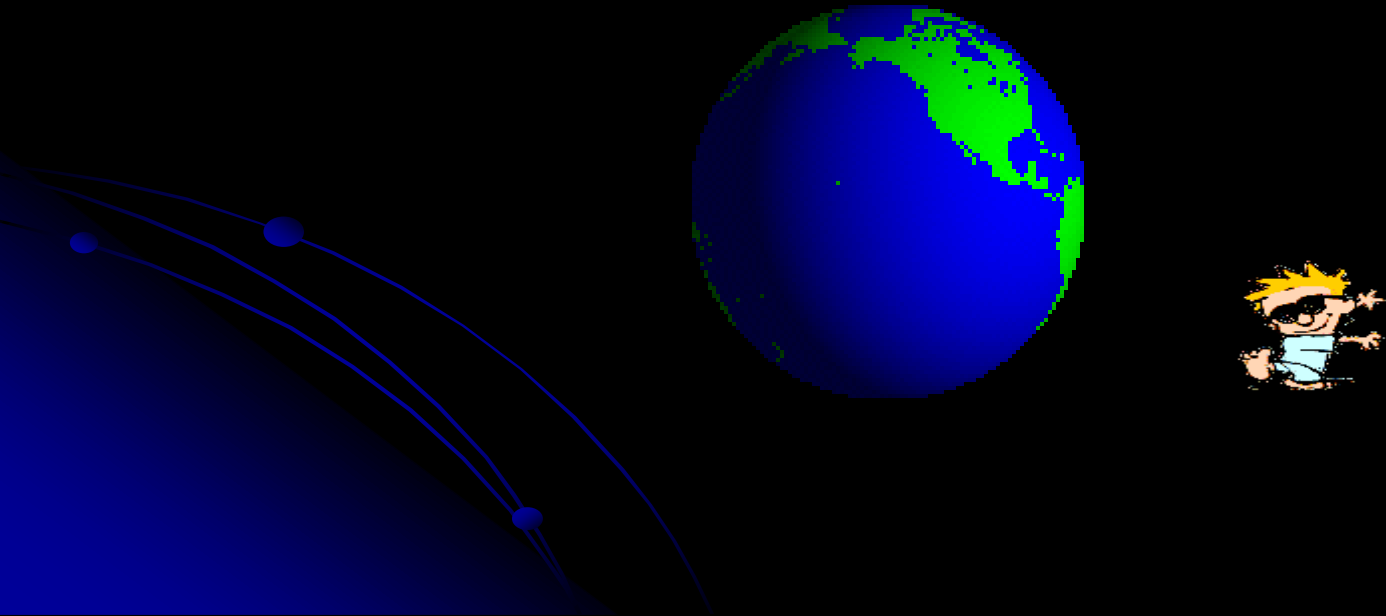
Land of the Midnight Sun

- **Click on picture to watch video of the solar “roller coaster”.**



A Stanmo Production

Thanks to NASA and JPL for the great pix.



Great Pyramid of Giza

