

ACTIVITY THE POWER OF THE SUN LOCATION ALTAZIMUTH PAVILION



GALLERY ALTAZIMUTH///

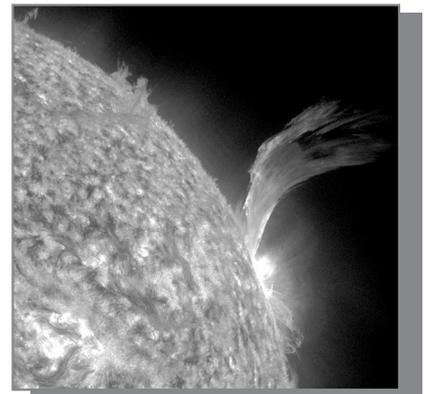
Press the first button on the interactive: "How does the Sun affect us?"

Can you name three things that extreme solar activity can affect in our daily lives?///

1

2

3



From the panels in this building can you choose the correct star type for our star the Sun as it will be in approximately 4.5 billion years time?///

Blue Supergiant

White Dwarf

Red Giant

The field in which the inside of the Sun is studied is called?///

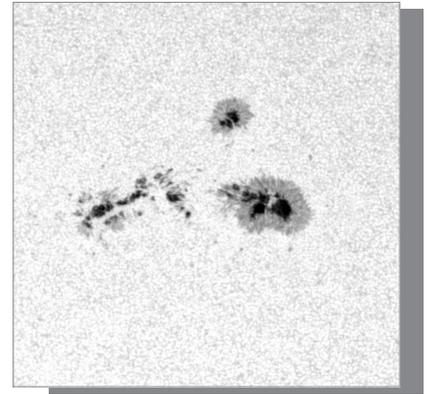
Heliogeology

Heliobiology

Heliogeology

Sunspots on the surface of the Sun. Magnetic fields temporarily trap part >> of the Sun where it can cool and appear darker than the rest of the Sun.

It is said that the Earth can be placed inside the Sun 1 million times (i.e. the volume of the Sun = 1 million times the volume of the Earth). Can you find out how much more massive the Sun is compared to Earth on the panels? ///



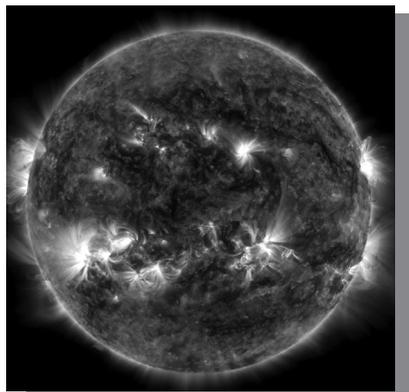
When you find this figure on the panels, you will have the mass and volume of the Sun compared to the Earth. Use the following equation to find out the density of the Earth compared to the Sun. ///

DENSITY = $\frac{\text{MASS}}{\text{VOLUME}}$ =

EARTH'S DENSITY

What is the unit of density? ///

(Mass in kilograms and volume in metres cubed)



Why is the Sun less/more dense per meter cubed than the Earth? ///