



# Have you ever watched nights with the midnight sun?

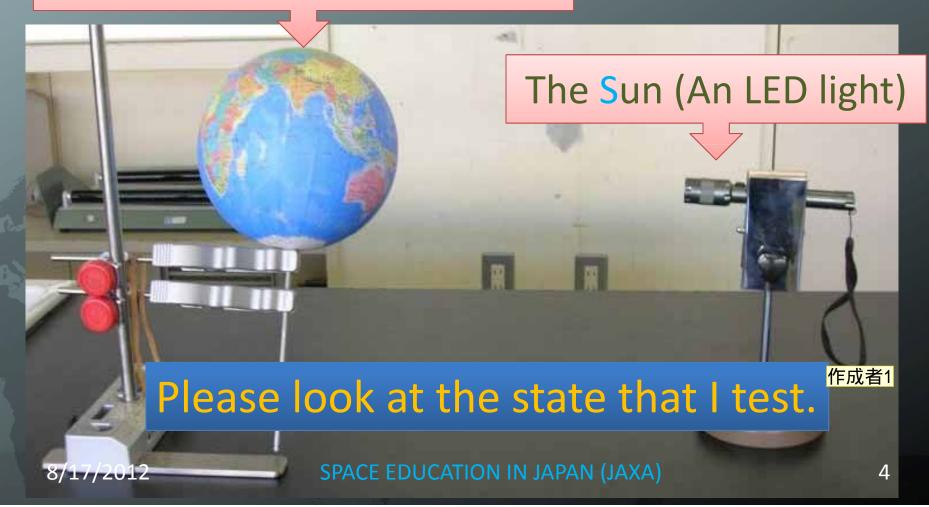


# Why do you think the Sun does not set?



## We can test the phenomenon using this lab equipment

The Earth (A terrestrial globe)



#### experiment method

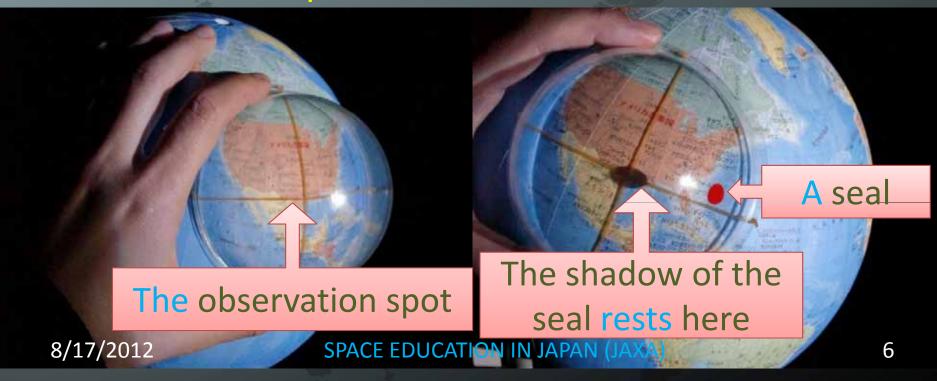
Expose a terrestrial globe to the LED light and let the globe rotate.



#### experiment method

Put a transparent hemisphere with a cross so that the center sits above the observation spot.

Put another transparent hemisphere over the first and place a seal so as to create a shadow at the observation spot.



#### experiment method

Place a seal on the transparent hemisphere while letting the globe rotate so a series of

shadows rest upon the observation spot.



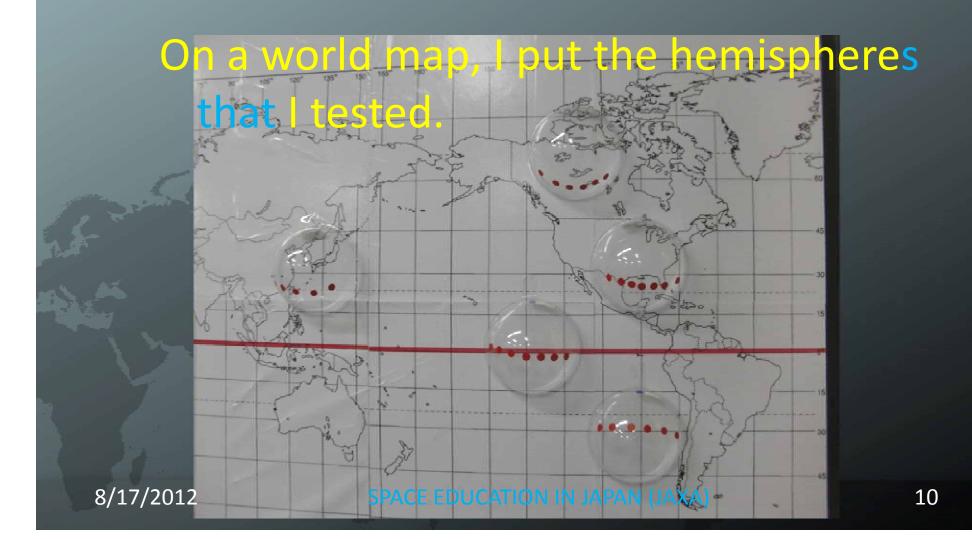
### This is the state of the shadows that were made when you turned the globe.



# Please do an experiment to examine solar diurnal motion at the spot that you like in your favorite season!



An experiment example: The state of solar diurnal motion in some spots on the day of Vernal Equinox (the Northern Hemisphere)



#### Understand it from an experiment example

The sun sets from above, due east to west.

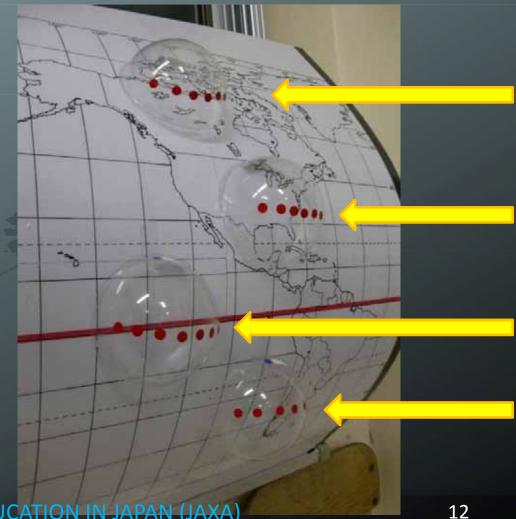
Even if the longitude is different, at the same point of latitude, the solar path is the same.

The sun travels south in the Northern Hemisphere, right along the equator, and north in the Southern Hemisphere.

A high degree in the south lowers so that the latitude is high. (Altitude in the south rises so that it is almost the equator.)

#### Understand it from an experiment example

Understand that a sunbeam hits the Earth parallel when a world map is bent.



Introduction of the experiment to understand solar diurnal motion effectively

That is the end of this presentation.

Thank you.



JAPAN (MASAKI MORIYAMA)