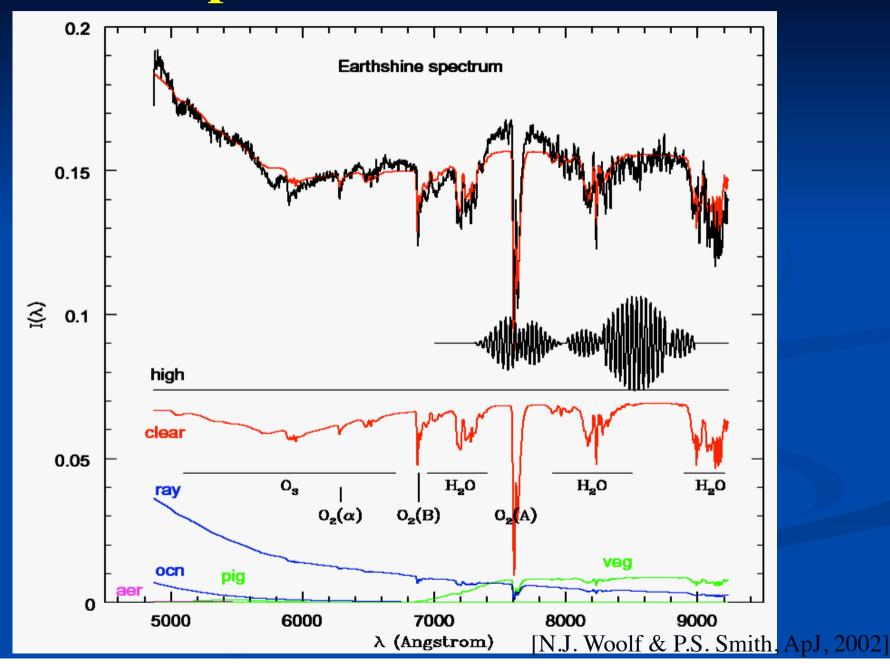


- Area of the Earth = 16 times of the Moon
- Reflectance: Earth 30%, Moon 7%

Brightness of the Earth ~ 60 times of the full moon.

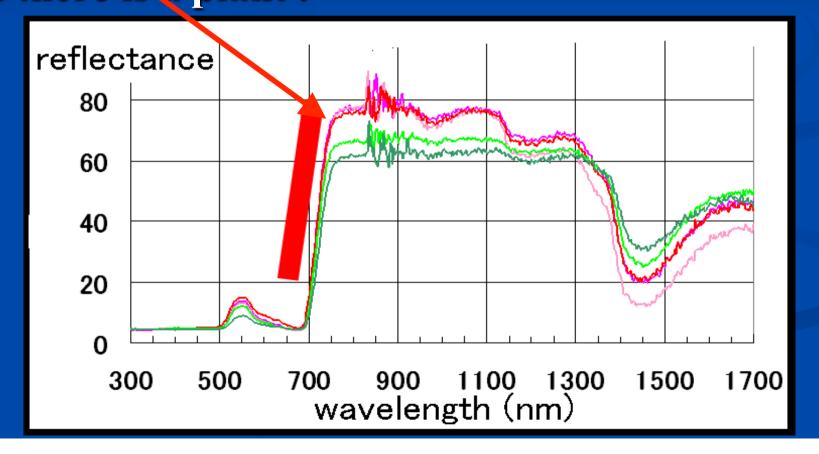
Model Spectrum of Earthshine



In the case of the Earth like planet is discovered...

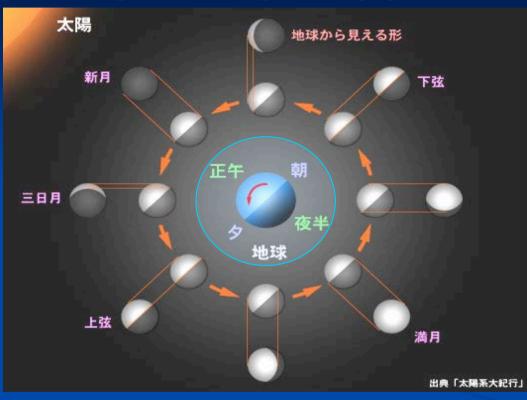
Signs of life → Spectroscopic observation — Red Edge can be an indicator when there is a plant.

observation → based or 10m class an indicator Space bone telescopes



Earthshine Dawn

The Earth gazed from the Moon 1



Earthshine **Eveing** Reflection form

Vegetation

continents

Reflection form the Pacific Ocean



The Earth gazed from the Moon 2

Before the new Moon

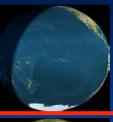
After the new Moon

2003

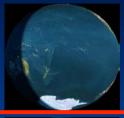


















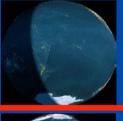


Before the

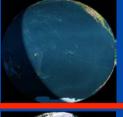
After the new Moon

new Moon

2003



Oct.



Nov.



Dec.





















April

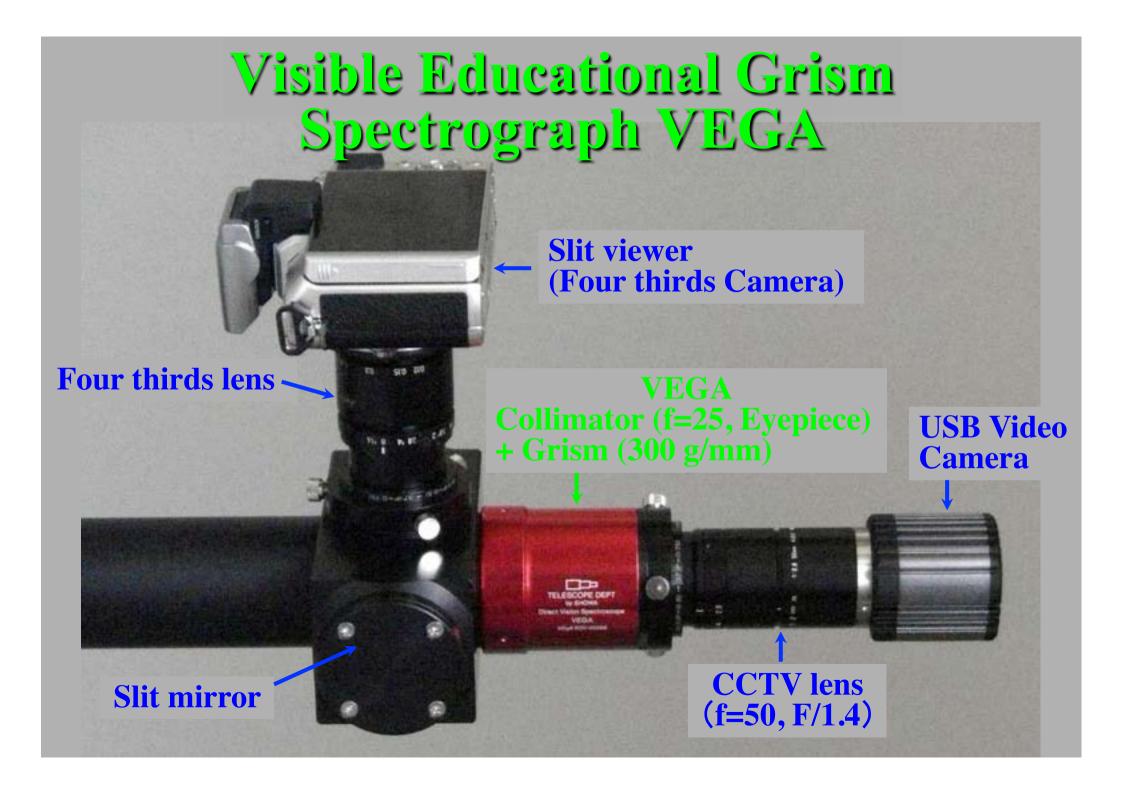
May

June

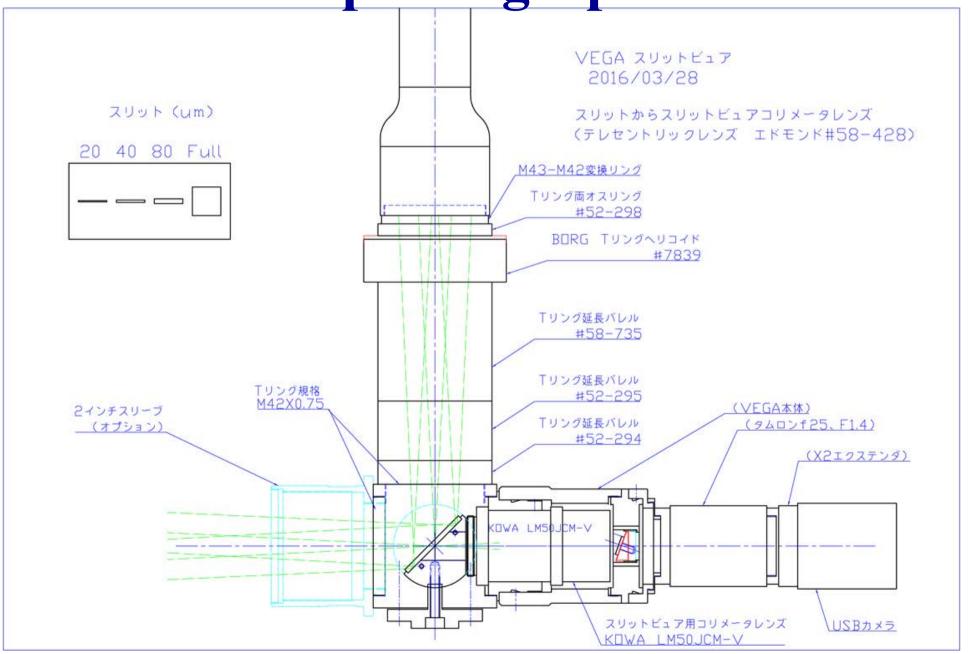
July

Aug.

Sept.



Grism Spectrograph VEGA









12, 14 April, 11, 12 May 2016

Slit Position of Earthshine Observation



To be continued