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Development and Practice of Venus,Sun,Moon Live Telescope as Teaching Material

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In junior high school science, changes in sunspots, changes in the shape of the learning phase of the moon and Venus. However, these observations are difficult with the naked eye, binoculars or a telescope is needed. The time allocation and observation, there are constraints such as safety. In school, astronomical observations, ”continues” It is difficult to do.

Imaged through a telescope, you can deliver real-time images on the monitor, you can continue to observe and think.

The school set up, implement, it is necessary for recovery from, ”one history SkyPod” (Vixen) was used. Telescope used to observe Venus ”SE-120” (Kenko) it. The digital imaging eyepiece ”NexImage” (Cerestron) was used. ”Barrow Lens 2” (Vixen) was extended to 1200mm focal length. ”Zoom eyepiece 8 ˜ 24” (Cerestron), ”flip mirror” (Vixen), ”Motor Focuser” was used. Indoor reception of images, the telescope can be controlled.

Sunspots, the observation of the moon ”miniBorg 50” (Tommy Tech) was used. 50mm diameter, 250mm focal length is. ”Powermate 5-fold” (the Review) was extended by 1250mm focal length. The digital SLR camera imaging ”EosKissX4” (Cannon) was used. Connected to a PC via a USB cable, the software comes with ”EosUtility” in the display on the monitor.

Is the practice in 2010 and losing the school by 3.11 earthquake, there were unexpected problems. Delivery is difficult. Still, two months after the May 15 earthquake could resume imaging of Venus. Temporary prefabricated school building was completed, although a small number of solar (sunspot) could be made to deliver. Want to continue.

Keywords: ScienceEducation, LiveStreamTelescope, JuniorHighSchool, Venus, Sun, Moon