

Diversified approach in astronomical education 11. The trial observation using remote telescopes

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For 1991, the astronomy curriculum Hands-On Universe (HOU) for the high school students was developed by the member who leader is Dr. Carlton Pennypacker of Laurence Berkeley Lab. UC Berkeley.

It was planned to observe by remote telescopes by the international collaboration.

And Japan Hands-On Universe society (JAHOU) had established in 1997, and it is being practiced in schools, Science Museums, and so on.

The remote telescopes were settled as those activities in the Science Museum (Tokyo) and University of Chicago, Yerkes observatory (U.S.A, Wisconsin) in 2001.

Kitanomaru Internet Telescope (KIT) is operated via internet and the purpose is to support the alive astronomical studies in the fields of schools and social educations.

Still more, KIT is also aimed to contribute for progress of studies and international goodwill through the mutual collaboration with Hands-On Universe (HOU).

It is difficult to observe celestial objects in the classroom.

Because the students have to wait until dark, after school, to make direct observations of them or it is difficult to use telescopes, they have no time to visit to the public observatory to observe.

But now students can see objects in their classroom, take images by themselves by using remote telescopes and they will have interest in analyzing them.

Moreover, using time difference, Japanese students and U.S. students can use each remote telescopes.

Then they can observe them in each school time.

As for the social education, the live astronomical observation which using time difference between Tokyo and Chicago has already been started in the Science Museum, Tokyo.

At the school students are using remote telescopes in astronomy club activities.

Remote telescopes will be used in the Earth science classroom in the public school in Okayama in this February.

A HOU teacher who is Science teacher of Oak Park & River forest High School in Illinois, U.S. has started activities using KIT in his Astronomy classes since September, 2002.

The use conditions of remote telescope in Japan and the case of the mutual observation are introduced here.