

"Let's Make Our Butterfly Diagram!"-Outreach Activity for the Elementary School Students at Kwasan Observatory

*Mai Kamobe¹, Tomoya Seki², Takako T Ishii¹, Keisuke Nishida¹, Ken-ichi Otsuji¹, Harufumi Tamazawa¹, Goichi Kimura¹, Miwako Kadota¹, Daisaku Nogami³, Kazunari Shibata¹, Masaoki Hagino⁴

1.Kwasan and Hida Observatories, Graduate School of Science, Kyoto University, 2.The Board of Education, City of Kyoto, 3.Department of Astronomy, Kyoto University, 4.National Astronomical Observatory of Japan

We have provided an opportunity for the elementary school students in Kyoto City to visit our observatory and to learn the latest astronomy since 2013. Additionally, the students of Kyoto Municipal Horikawa Senior High School have contributed greatly on this outreach activity by creating the unique textbook and by guiding elementary school students at the observatory tour. In this presentation we mainly report an educational material entitled "Let's Make Our Butterfly Diagram!" ,which is included in the observatory tour in 2015. It is one of the contents that the elementary school students draw "Our Butterfly Diagram" by their own hands.

When the students had the observatory tour, each student received a "My Sunspot Card" that has month-year information and latitude of a sunspot. According to this data, they mark a spot on the poster printed coordinate. We have got some feedbacks on these activities; "I want to learn about the universe more and more!!" "I learn that the study of the solar flare is very important, since it is danger to human life." These comments indicate that they feel closer and familiar to the Sun and the universe at their regional observatory. Since "Our Butterfly Diagram" consists of our own data obtained by sunspot sketch over a decade at Kwasan Observatory, it impresses observers the importance of continuous observation and motivates them to keep observation.

We are considering making use of this educational tool for children and adults to present the significance of the continuous observation and to stimulate their sense of wonder for the Sun and the universe.

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