

太陽の磁気活動を調べる「ひので」 Hinode for exploring magnetic activities on the Sun

清水 敏文^{1*}
Toshifumi Shimizu^{1*}

¹ 宇宙航空研究開発機構宇宙科学研究所
¹ ISAS/JAXA

Hinode, launched on September 2006, has been continuously observing our Sun to understand the processes of magnetic field generation, the processes responsible for energy transfer from the photosphere to the corona, and the mechanisms responsible for heating, dynamics and eruptive flares. Solar Optical Telescope (SOT) provides 0.2-0.3 arcsec observations of magnetic and velocity fields at the solar surface, whereas X-Ray Telescope (XRT) and EUV Imaging Spectrometer (EIS) provide soft X-ray images and EUV spectroscopic data for diagnosing thermal properties and dynamics in the corona. Observations with these telescopes have already produced over 600 publications on refereed journals, including the Hinode special issue in SCIENCE magazine. These three state-of-the-art telescopes were developed under collaboration with NAOJ as a domestic partner, NASA and STFC (UK) as international partners. Scientific operation of the Hinode mission is conducted by the Hinode science team organized at ISAS/JAXA. This team mainly consists of scientists from institutes in the partner countries. Support for the post-launch operation is provided by JAXA and NAOJ (Japan), NASA (U.S.A.), STFC (U.K.), ESA, and NSC (Norway).

キーワード: 太陽, 国際協力
Keywords: The Sun, International Collaboration