

A16a

H α Full Disk Synoptic Observations with SMART at Hida Observatory

T.T.Ishii, K.Ichimoto, R.Kitai, S.UeNo, S.Nagata, G.Kimura, Y.Nakatani, M.Hagino, T.Kawate, K.Nishida, N.Kaneda, K.Shibata (Kyoto-U.), K.Otsuji, S.Morita (NAOJ)

The Solar Magnetic Activity Research Telescope (SMART) was built in 2003 at Hida Observatory, Kyoto University to realize the space weather forecasting through the study of solar explosive phenomena and their origins. The SMART consists of four telescopes with apertures of 20 or 25 cm, equipped on a unique equatorial mount, that combines high resolution H α full disk observations, vector magnetic field measurements, and high speed imaging system for solar flares.

We open all data set of H α full disk images with multi wavelengthes (not only H α center but also blue/red wings) on our web-site <http://www.hida.kyoto-u.ac.jp/SMART>, since July 2005. Data archive is a calendar style and easy to check data-available date. All fits format data, jpeg images (for quick look), and observation log can be downloaded. We are planning to make a SMART event catalog (including flare catalog, filament daily summary, active event list).

In this talk, we introduce the SMART data archive, some results of large flares, and synoptic observations of chromosphere from 2005 to 2012.