

# Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

©2011. Japan Geoscience Union. All Rights Reserved.



PEM030-P08

Room:Convention Hall

Time:May 26 10:30-13:00

## Research activities during the extension period of the scientific operation of Nobeyama Radio Heliograph

Satoshi Masuda<sup>1\*</sup>, Kiyoto Shibasaki<sup>2</sup>, Masumi Shimojo<sup>2</sup>, Kiyoshi Ichimoto<sup>3</sup>, Ayumi Asai<sup>3</sup>, Takaaki Yokoyama<sup>4</sup>

<sup>1</sup>STEL, Nagoya University, <sup>2</sup>NAOJ, <sup>3</sup>Kyoto University, <sup>4</sup>University of Tokyo

The scientific operation of Nobeyama Radio Heliograph has been extended by the end of March 2015. The fiscal year 2010 (April 2010 ? March 2011) is the first year of the extension period. In order to maximize the scientific outcome during this extension period, the Nobeyama Radio Heliograph Scientific Operation Consortium was established and has performed the research plans and the operations which were proposed to National Astronomical Observatory of Japan (NAOJ) by it.

The main research topics during the extension period are "better understanding of the acceleration/transport/dissipation processes of high-energy (a few hundreds keV ~ a few MeV) electrons in solar flares", "derivation of coronal magnetic fields", "research on prominence eruption and its utilization to space weather research", and "long-term variation of solar active phenomena through two solar cycles". Recently several results were achieved on these topics. In this presentation, we briefly introduce them.

In addition to these researches, we proposed the following proposals, "constitution of a subcommittee on Nobeyama Radioheliograph scientific operation consortium in NAOJ", "to hold a users' meeting each year", "to have a CDAW (Coordinated Data Analysis Workshop) each year", "encouragement for domestic scientists to of stay for collaborative researches at Nobeyama", "collaborative researches with Hinode", "teaching and lectures/seminars by the scientists in Nobeyama Solar Radio Observatory", "appeal the results to public", "to find seeds which expand to a new project in the future", and "advertisement of this research field for under-graduate students". Some of them have already been realized in the fiscal year 2010. In this presentation, we also report such activities.

Keywords: solar radio, solar flare, particle acceleration, solar activity cycle