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

PEM030-P08 会場:コンベンションホール 時間:5 月 26 日 10:30-13:00

野辺山電波ヘリオグラフ科学運用延長期間における太陽研究
Research activities during the extension peirod of the scientific operation of Nobeyama Radio Heliograph

増田 智 [1*], 柴崎 清登 [2], 下条 圭美 [2], 一本 潔 [3], 浅井 歩 [3], 横山 央明 [4]
Satoshi Masuda[1*], Kiyoto Shibasaki[2], Masumi Shimojo[2], Kiyoshi Ichimoto[3], Ayumi Asai[3], Takaaki Yokoyama[4]

[1] 名古屋大学太陽地球環境研究所, [2] 国立天文台, [3] 京都大学, [4] 東京大学
[1]STEL, Nagoya University, [2]NAOJ, [3]Kyoto University, [4]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.

キーワード: 太陽電波, 太陽フレア, 粒子加速, 太陽活動周期
Keywords: solar radio, solar flare, particle acceleration, solar activity cycle