

# Japan Geoscience Union Meeting 2011

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

©2011. Japan Geoscience Union. All Rights Reserved.



PEM006-14

Room:101

Time:May 25 15:55-16:15

## CAWSES-II TG 4 Longitudinal Network Campaign for investigation of atmosphere ionosphere dynamical coupling

Hisao Takahashi<sup>1\*</sup>, Jonathan J. Makela<sup>2</sup>, Kazuo Shiokawa<sup>3</sup>, Jens Oberheide<sup>4</sup>

<sup>1</sup>Instituto Nacional de Pesquisas Espaciais, <sup>2</sup>University of Illinois, <sup>3</sup>Nagoya University, <sup>4</sup>Clemson University

CAWSES-II, Task Group 4 works on the scientific objectives of geospace response to variable waves from the lower atmosphere. As one of the projects of this group, Project 2 focuses in a subject of the relation between atmospheric waves and ionospheric instabilities. In order to investigate it, we proposed to have a longitudinal network observation campaign around the equatorial and low latitude regions. The first tentative campaign has been carried out during the period of September to November (~75 days), 2010, crossing the September equinox. Ground based Ionosonde, magnetometer, MF radar, VHF radar, meteor radars and some other optical sensors have been used to collect mesosphere ionosphere related data from the different longitudes in a global scale. The campaign overview and some preliminary results will be presented and discussed.

Keywords: CAWSES-II, Task group 4, mesosphere-ionosphere coupling, longitudinal campaign