

# Japan Geoscience Union Meeting 2011

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

©2011. Japan Geoscience Union. All Rights Reserved.



HTT034-P03

Room:Convention Hall

Time:May 24 14:00-16:30

## A Development of New Technique for Distributed HF Ocean Radar Systems

Shigeo Sugitani<sup>1\*</sup>, Seiji Kawamura<sup>1</sup>, Hiroshi Hanado<sup>1</sup>

<sup>1</sup>NICT

Long-Range Ocean Radar (LROR) system has been developed by National Institute of Information and Communications Technology (NICT). LROR (9MHz band) can observe long range more than HF (24MHz band) Ocean Radar. But LROR System needs to set up with big area and high costs.

We, NICT, are planning USRP2 that is a cheap, generality, and software Radio is installed as a transmitting and receiving apparatus (A/D and D/A converter), and used for the wireless machine in each antenna. As a result, the wireless machine that provides with sending and receiving in the antenna of one is developed, and it aims at the thing that operates as a wireless system with all of the one antenna compositions by sharing the timing of sending and receiving and the communication of data by wireless (cable) LAN between the wireless machines.

Keywords: HF Ocean Radar