

# Japan Geoscience Union Meeting 2011

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PEM006-P08

Room:Convention Hall

Time:May 26 10:30-13:00

## A New Project for Constructing a Magnetometer Array in Tasmania and New Zealand: A Preliminary Result

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A project for observations of quarter-wave length and higher harmonic modes of field line resonances is planned. In February 2011, we installed a magnetometer in Middlemarch, New Zealand for the first step to develop a magnetometer array in Tasmania and New Zealand region. Some magnetometers have been operated by previous projects in this region and its conjugate point. Coordination of their and our magnetometers will allow us to study spatial structure of quarter-wave and higher harmonic modes of field line resonances. Such results will give some boundary for latest Magnetosphere-Ionosphere coupling models.

Keywords: geomagnetic field, ULF wave, field line resonance, magnetosphere-ionosphere coupling, plasmasphere, magnetosphere