

Japan Geoscience Union Meeting 2011

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

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PEM032-P03

Room:Convention Hall

Time:May 27 10:30-13:00

An observation plan of ionospheric scintillations by use of GPS signals received in Syowa Station, Antarctica

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We begin observation of ionospheric scintillations, by the use of GPS (Global Positioning System) signals, in Syowa Station [69.00°19'S,39.34°52'E], East Ongle Island, Antarctica. In the 52nd Japanese Antarctic Research Expedition started from November 2010, two GPS receivers—one at the Ionospheric Observatory (site name SYO1) and the other the Administration Building (SYO2)—have been implemented (Fig. 1).

Part of the realtime data, not yet calibrated well, is available on the following web site:

<http://wdc.nict.go.jp/IONO2/ANTARCTIC/SYOGS/SYO1/TEC/>

<http://wdc.nict.go.jp/IONO2/ANTARCTIC/SYOGS/SYO2/TEC/>



図1. 南極昭和基地に設置したGPSシンチレーション観測システム配置図

Keywords: Syowa Station, Antarctica, ionospheric scintillations, GPS signals, observation plan