

The resumption of the ionospheric observation on Cebu Island in the Philippines

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NICT (National Institute of Information and Communications Technology) ionospheric observation on Cebu Island in the Philippines, using a portable FM/CW sounder, has been shut down for several years because of some problems such as deterioration of antennas. But we are now preparing to resume observations. We have already conducted ionospheric observations around western Pacific equatorial region: SEALION Observation Network (SEALION: Southeast Asia Low-latitude Ionospheric Network) and the transequatorial radio-wave propagation experiment at shortwave frequencies (HF-TEP) between Shepparton, Australia, and Oarai, Japan. Along with these, Cebu ionospheric observation will function as longitudinal network of dense ionospheric observation and contribute a great deal to our understanding physical relationship between the equatorial plasma bubble and large-scale horizontal structure such as the longitudinal large-scale wave structures (LSWSs).

In this presentation, we will report initial results after the resumption of the observation on Cebu Island.