

## **POLAR CAP THERMOSPHERE DURING SOLAR MINIMUM CONDITION**

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We use ground based Fabry-Perot interferometer to observe the thermospheric winds and temperature inside the polar cap at Resolute, Canada. We have been operating the instrument over 5 years. We will present the thermospheric temperature and winds observed in recent years during the solar minimum condition. Comparison with more active solar period will be made to examine the solar effect on the polar cap thermospheric circulation and temperature. Observational results will also be compared with National Center for Atmospheric Research Ionosphere Thermosphere Electrodynamics General Circulation Model (NCAR-TIEGCM). It is rarely to have such quiet solar condition in recent years. It is good opportunity to study the solar effect on the polar thermosphere.

polar cap, thermosphere, solar minimum, Fabry-Perot interferometer

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