

# Ionospheric measurements at Polish Polar Station in Hornsund (Svalbard)

Marcin Grzesiak, Andrzej Wernik, Mariusz Pożoga  
**Space Research Centre,  
Polish Academy of Sciences**

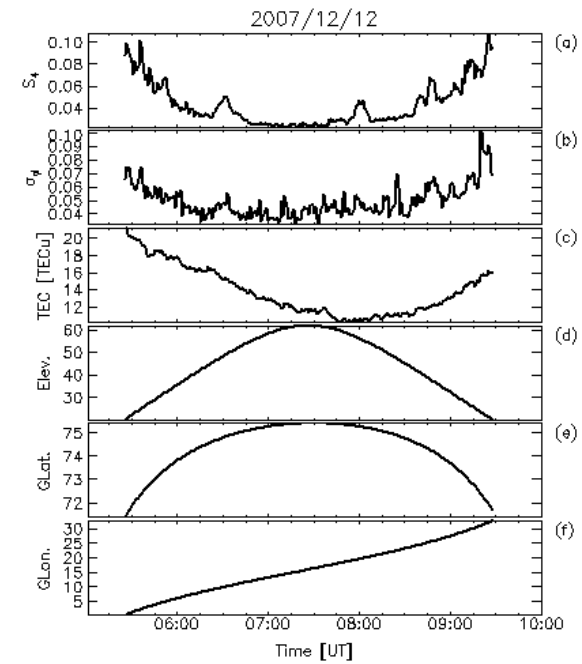
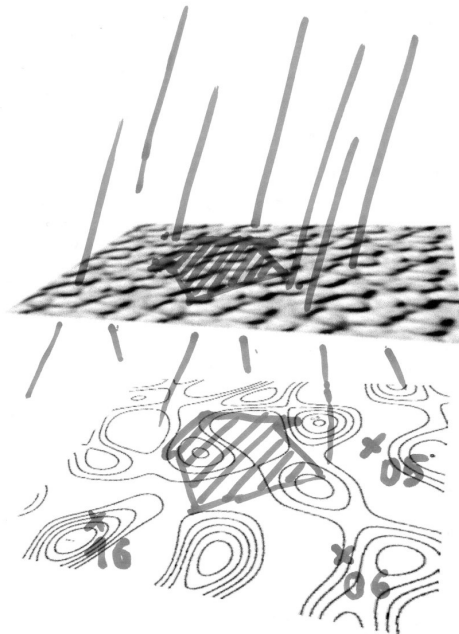
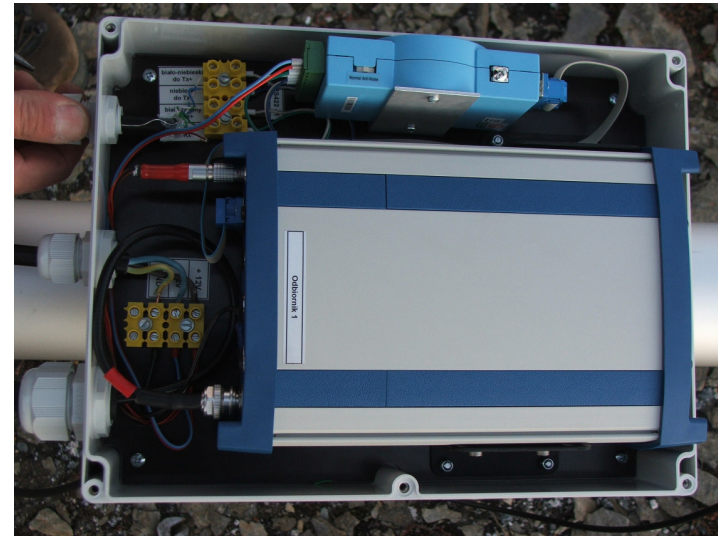


Established in 1957. Permanent since 1978.

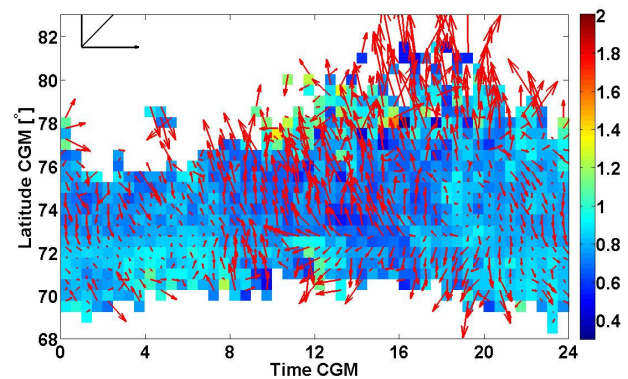
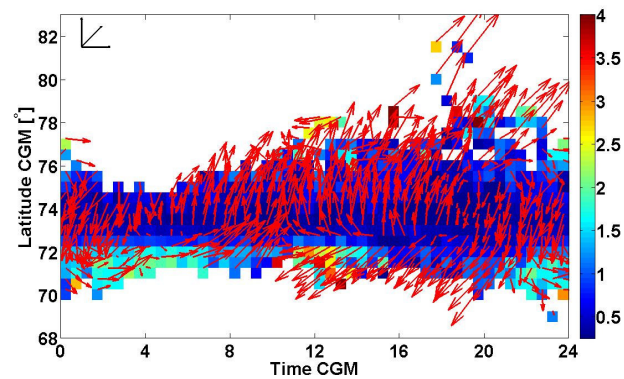
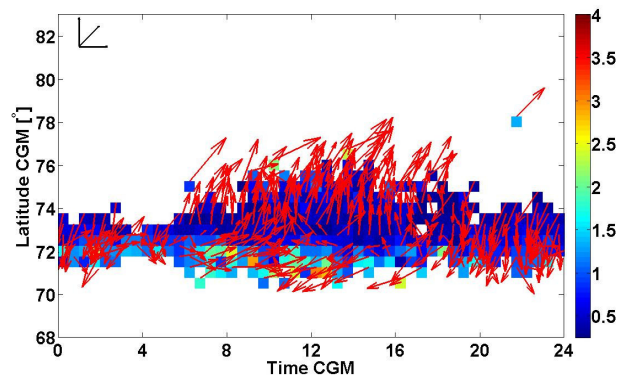
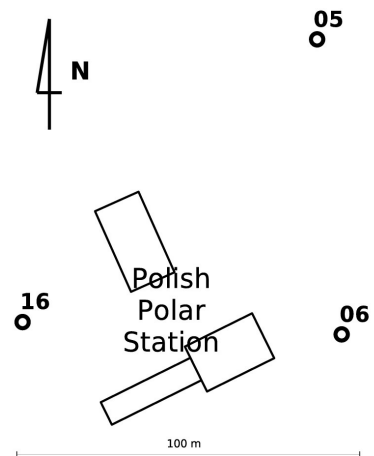
$\phi = 77.00^\circ \text{ N}$        $\lambda = 15.55^\circ \text{ E}$   
 $\Phi = 74.11^\circ \text{ N}$        $\Lambda = 109.89^\circ \text{ (CGM)}$   
 Magnetic midnight at 20:56 UT

	<b>Instrument</b>	<b>Measured and/or derived parameters</b>	<b>Institution</b>	<b>Country</b>
1	3 spaced GPS TEC/scintillation receivers.	TEC (1s, 1min), $\sigma_\phi$ , $S_4$ (1min) (available on line) Ionospheric drift velocity, shape of irregularities.	Space Research Center, PAS	PL
2	La Jolla 30 MHz riometer	Ionospheric absorption	Sodankylä Geophysical Observatory	FIN
3	Digital ionosondes vertical	$N_e$ profiles, information about the state of the ionosphere. (available on line)	Space Research Center, PAS	PL
4	Riometer	Ionospheric absorption measurements (available on line)	Natural Resources	CAN
5	Radioactive collector and field mill	Ground atmospheric electric field strength measurements	Institute of Geophysics, PAS	PL
6	Automatic weather station	Atmospheric pressure, wind 10 m above the ground, air temp. and humidity, ground temperature at various depths, insolation	Institute of Meteorology and Water Management	PL
7	Torsion digital magnetometers. Proton magnetometer.	Magnetic field components (X, Y, Z) and total field sampled every 10 s. Available on INTERMAGNET.	Institute of Geophysics, PAS	PL

# Experiment MISTECS







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