Geophysical Research Abstracts, Vol. 9, 06457, 2007
SRef-ID: 1607-7962/gra/EGU2007-A-06457

Ionospheric Effects on GPS and SAR - Preliminary Results of EISCAT 3D in combination with Remote Sensing and In-Situ Measurements

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We present preliminary results of a project within the EISCAT 3D consortium which is concerned with ionospheric effects on GPS and SAR remote sensing measurements. The existing database of EISCAT measurements is reviewed and conclusions are drawn in order to propose new experiments. In addition, a measurement campaign on Svalbard which combines EISCAT (and other groundbased instruments) with remote sensing measurements (airborne spectrometer and spaceborne SAR) and in-situ calibration observations of sea-ice and snow-cover is described and first results presented.