



Ionospheric drift measurements during high and low geomagnetic activity.

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New digisonde measurements with DPS 4 equipment started (not only ionospheric soundings, but ionospheric drift measurements also) at Průhonice observatory in January 2004. The paper deals with effects of high solar and geomagnetic activity, which were observed at Průhonice observatory in ionospheric drifts measurements during 2004 – 2005 year. Interesting changes of the ionospheric drifts were observed during several periods of a suddenly enhanced solar and geomagnetic activity. The analysis of the ionospheric drifts, measured during disturbed conditions, shows, that vertical drift velocity reaches, from typical value 50 m/s for quiet conditions, up to - 60 m/s and -250 m/s during disturbed conditions. The variations in horizontal components are a result of increasing of TID activity during storm.

In standard drifts measurements, the velocity of F region drifts is usually determined without height variations. In second part of this paper we report the results of measurements of the drift velocity in E and F region at midlatitude station Pruhonice.