

PRELIMINARY RESULTS OF WIND VELOCITY MEASUREMENTS AT DIFFERENT POINTS

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Two Fabry-Perot interferometers were installed in Lovozero (67.97 N, 35.02 E) and Tumanny (69.14 N, 35.82 E) located approximately along geomagnetic meridian. Neutral wind velocities are measured in the zenith of stations and above the opposite station. It allows us to reconstruct vertical and meridional components of wind velocity at two points and to investigate their temporal and spatial variations. The first measurements show variations over these stations may be quite different in vertical well as in horizontal velocities of neutral wind. The difference in vertical and horizontal velocities may exceed 30 m/s and 60 m/s respectively. Some problems connected with signal noise and CCD camera image are discussed.