

Research on the wind dynamics in the polar lower thermosphere/mesosphere by using radars in northern Scandinavia

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In this paper, we will report our activities as well as results of the wind dynamics in the polar lower thermosphere and mesosphere in northern Scandinavia. We have been studying the wind dynamics in the upper atmosphere by using several radars such as the EISCAT radars, a MF radar and a meteor radar. Characteristics of the semidiurnal tide derived from long-run data obtained by the EISCAT UHF radar at Tromsø (69.6 deg N, 19.2 deg E) over 22 days from September 7 to 29, 2005 will be presented. Also, initial results from the new meteor radar in BearIsland (74.5 deg N, 19.0 deg E) will be presented. In particular, we will focus on latitudinal variations of the wind in the lower thermosphere by using the EISCAT radars and the meteor radar.