



Validation of WLS70 Doppler Wind Lidar in the frame of Helsinki Testbed

Simone Lolli (1,3), Jani Poutiainen (2), Herman Böök (2), and Laurent Sauvage (1)

(1) Leosphere, Atmospheric Physics, Paris, France (slolli@leosphere.fr), (2) Finnish Meteorological Institute, Erik Palménin aukio 1, 00560 Helsinki, Finland, (3) Laboratoire de Météorologie Dynamique, Ecole Polytechnique, 92116, Palaiseau, France

A long range windcube WLS70 was deployed from September to November 2010 at Finnish Meteorological Institute in the frame of Helsinki Testbed (<http://testbed.fmi.fi>) that has as main objectives and project goals the mesoscale weather research, forecast and dispersion models development and verification, demonstration of integration of modern technologies with complete weather observation systems, end-user product development and demonstration and data distribution for public and research community. The long range WLS70 Doppler Wind Lidar data measurements were intercompared against other wind profiling systems deployed in the Testbed, as C-band weather Radar, radio soundings, Sodar, marine and terrain grid point of the wind forecast model MBE HIRLAM and the 371m radio mast in Espoo. In this paper are presented the results of this intercomparison.