



Dissemination of atmospheric parameters relevant for aircraft safety from operational high-resolution numerical simulations

Bolli Pálmason (1), Haraldur Ólafsson (), Birta Líf Kristinsdóttir (), Hálfván Ágústsson (), and Theodór Freyr Hvarrsson ()

(1) Háskóli Íslands (Univ. of Iceland), Reykjavík, Iceland (haraldur68@gmail.com), (2) Veðurstofa Íslands (Icelandic Meteorol. Office) bolli@vedur.is, (3) Bergen School of Meteorology, Geophysical Institute, University of Bergen, Norway, (4) Reiknistofa í veðurfræði (Institute for Meteorological Research), Reykjavík, Iceland

Recently a number of weather-related aircraft incidents have been investigated aiming at detecting what resolved parameters in the atmospheric flow are useful as predictors of such incidents. As a result of these investigations, plots of forecasted vertical velocity and turbulence kinetic energy from numerical simulations by the Harmonie model with a horizontal resolution of 2.5 km are now provided on a regular basis and disseminated freely on the web (brunnur.vedur.is/kort/spakort). These plots reveal frequently areas of up to extremely high values locally, values that case studies have shown to cause severe incidents.