

An aerial photograph of a large, irregularly shaped ice floe in a dark blue sea. The ice floe is composed of many smaller, jagged pieces of ice. Several dark-colored seals are scattered across the ice floe. One seal is visible in the upper left, another in the center, and a third in the lower right. The background shows the open sea and a clear sky.

ALADIN/SHMU operational report

Maria Derkova (maria.derkova@shmu.sk)

1. Operational ALADIN/SHMU system

The setup of ALADIN/SHMU model domain and version was not changed during the 2d half of 2005.

Concerning the hardware, the IBM Total Storage Tape Library (24TB) with Tivoli Storage Manager archive device was put to operations, for the time being with interactive access only.

In the operational suite, the main modifications were the introduction of the **additional runs** at **06UTC** (25/07/2005) and **18UTC** (29/09/2005), both up to **+54h**; and the introduction of the **dynamical adaptation** of the wind field over the territory of Slovakia with a 2.5km resolution (21/09/2005). An example of the dynamical adaptation usage is shown in figures 1 and 2: 36h forecast of the wind field and the wind gusts for 30/12/2005 12UTC - an episode when strong wind in combination with snow have caused serious car accidents, with 4 casualties, on the roads of West Slovakia. The structure of the wind field reflecting the local topography is better represented with a 2.5km resolution, as was expected.

Among new products generated from ALADIN/SHMU outputs, the automatic point forecast has its graphical version - meteogram, and it is verified in the same graphical format (verifmet). In figures 3 and 4, an example for BRATISLAVA station is shown.

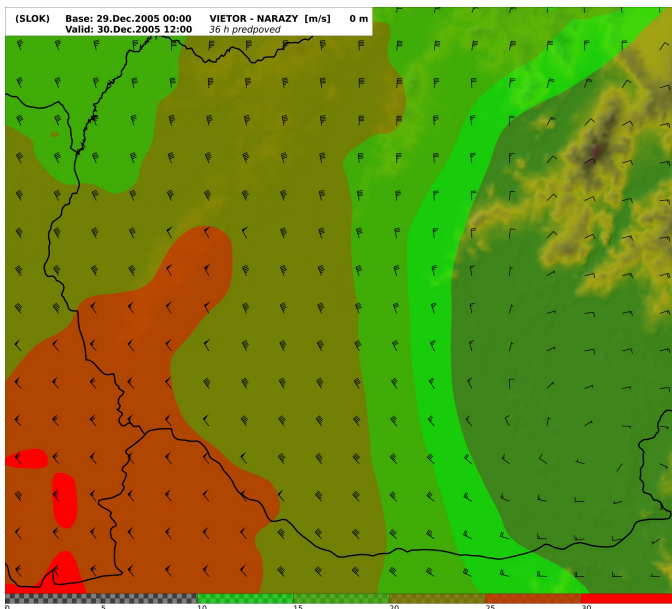


Figure 1: operational 36h forecast of the 10m wind and the wind gust (9km resolution)

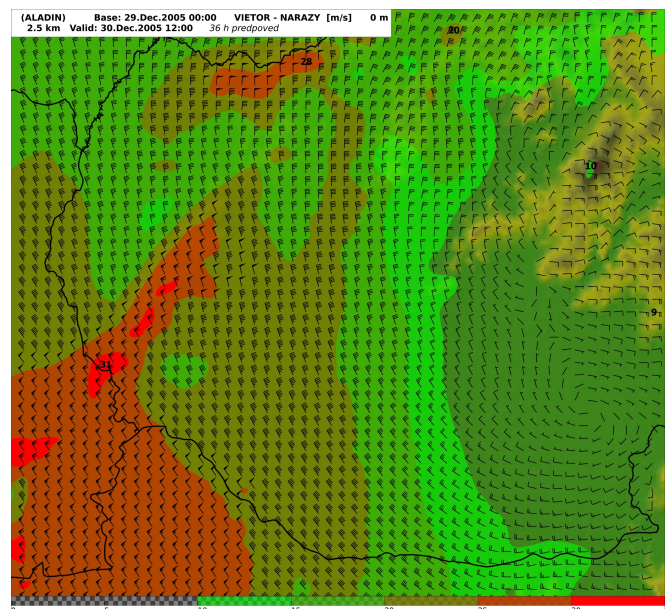


Figure 2: The same as the previous figure, but for the dynamical adaptation (2.5km)

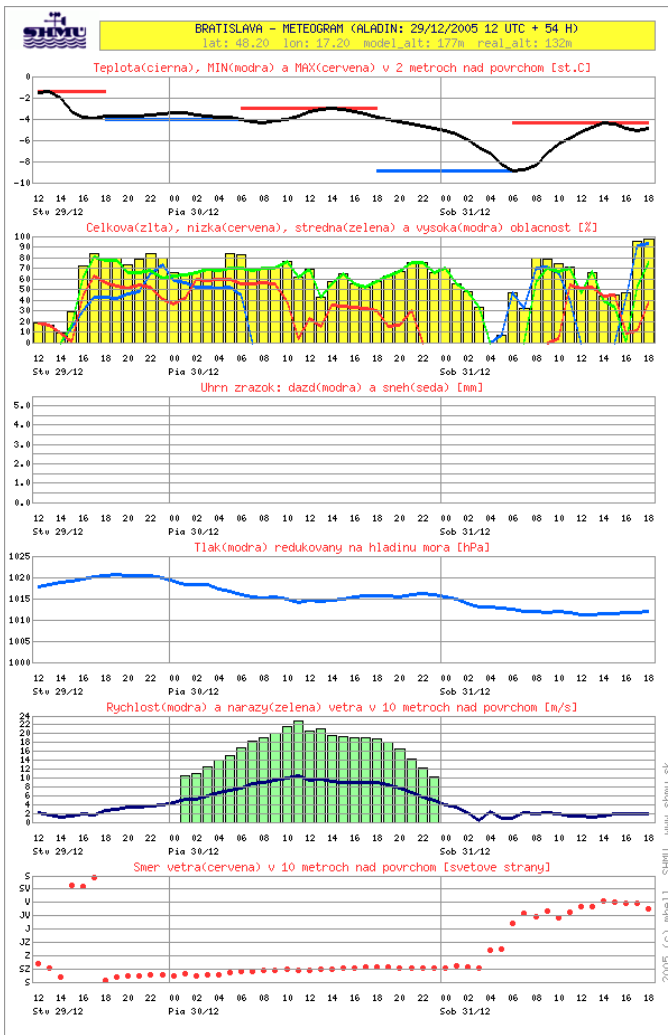


Figure 3: Meteogram

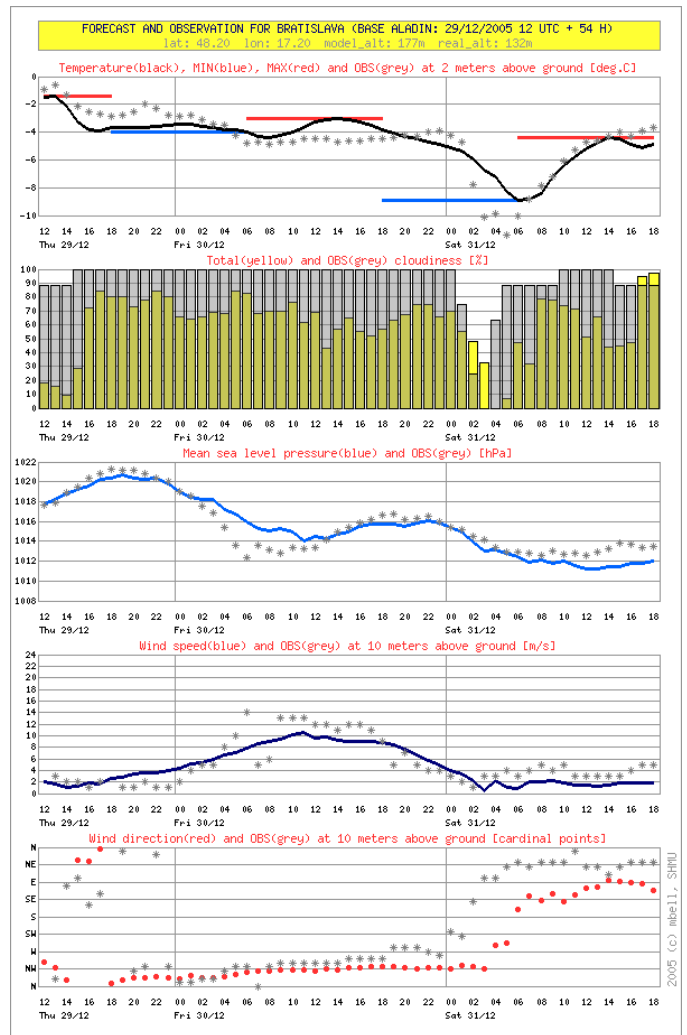


Figure 4: Meteogram verification

CONTENTS

1. Operational ALADIN/SHMU system	2
---	---