

## 2.4. SLOVENIA

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### **Computer system SGI ALTIX ICE 8200**

No changes (see ALADIN Newsletters 37).

### **OPERATIONAL SUITE**

No changes (see ALADIN Newsletters 37).

### **OTHER OPERATIONAL ACTIVITIES**

- parallel suite aos04 (4.4 km) – no changes
- assimilation cycle (4.4 km) – aos04da running on daily basis
  - same setup as in parallel suite (4.4 km)
  - 6-h forecasts as first guess (long cut-off LBC's from ARPEGE)
  - SST analysis from ARPEGE (with BLENDSUR)
  - initialization of hydrometeors TKE and 3MT prognostic fields from 6-h forecast
  - CANARI surface analysis using surface observations (T and RH at 2 m),
  - 3DVar upper air analysis using OPLACE data and local observations (SYNOP)
- pre-operational suite aos09ecmwf, differences compared to operational suite (aos09) are:
  - four runs per day: 00, 06, 12, 18 UTC (all up to 72h)
  - initial and lateral boundary conditions from ECMWF/IFS

Some problems appeared with the daily runs of the ALADIN model coupled with ECMWF/IFS. The model integration occasionally aborted, usually because of the strange values of the orography field. It turned out that the cause was sftp transfer of ALADIN LBC files from ECMWF/IFS via internet where the use of compression causes the corruption of the files.

The setup of the assimilation cycle is tested and ready to be inserted into pre-operational daily production. This is also occasion to renew the current organization of operational and parallel suites. Migration has started in July and is planed to be completed in September.

A major problem was encountered in the assimilation cycle, where there is a bug in reading of the guess field (for surface temperature). After diagnosing that switching off grib packing is not causing abort, the bug was circumvented by modifying the code (no packing option for all surface variables).

### **List of important changes**

04.02.2010

daily runs of ALADIN/SI model coupled with LBC data from ECMWF/IFS

24.03.2010

compression of the files during sftp transfer from ECMWF is not used any more

11.05.2010

the switch to higher resolution LBC data for LACE from ARPEGE