



ALADIN-Tunisie :
Events during second semester of 2004

Institut National de la Météorologie de Tunisie

1. Changes in coupling files resolution as a solution to the transfer problem

Since the first local implementation of ALADIN-Tunisie which is running on IBM Regata platform, we used to receive coupling files from Toulouse at ALADIN-Tunisie resolution (12.5 km) via Internet connection in parallel to a leased line (64 kbits/s), but we registered too many problems to get all the files at the expected hour (06:00 UTC) because of the big volume needed to be transferred in time with regard to the LS speed (about 140 Mo).

A first solution was to practice the so-called "asynchronous forecast", but the quality became debased.

The final solution adopted with the agreement of the DPREVI/COMPAS and GMAP teams is to transfer the coupling files at ARPEGE resolution (24 km). Hence, we have installed the required EE927 configuration after applying some changes on the operational cycle (Tunisia domain, clim files, namelists and scripts). The work was done by ALADIN-Tunisie team.

A successful production test has been achieved by 23 November 2004 on 12:00 UTC run. The change to the new coupling files became operational since 24 November 2004 with 00:00 UTC run. This new configuration is running operationally without registered delay since that date.

2. Other events

2.1 Gmckpack 5.1

The *gmckpack* 5.1 version was adopted to manage and compile ALADIN export packages on the IBM Regata platform of INM. This version was tested for the cycle 28T3 which was compiled successfully.

2.2 Configuration tests for cycle 28T3

The configurations e927 and e001 were tested with success for the cycle 28T3. A validation work will be done in immediate future.

2.3 DiagPack

A preliminary work was done for the installation of DiagPack on IBM Regata, this led to a successful test of the surface optimal interpolation CANARI. The forthcoming work consists in:

- Hourly integration of SYNOP data,
- MOCON and CAPE computation for Full-Pos.

2.4 VerifAlad

The compilation and the implementation of the VerifAlad package in the operational regime was done with success. Data to be verified and assessed are sent twice a day for the two networks of the day (00:00 and 12:00). Ten synoptic stations were chosen for a test period control.

CONTENTS

1. <u>Changes in coupling files resolution as a solution to the transfer problem</u>	2
2. <u>Other events</u>	2
2.1 <u>Gmkpack 5.1</u>	2
2.2 <u>Configuration tests for cycle 28T3</u>	2
2.3 <u>DiagPack</u>	2
2.4 <u>VerifAlad</u>	2