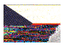
Austria

Belgium

Bulgaria

Croatia



ALADIN Newsletter 20

This joined Newsletter presents you the principal events concerning ALADIN or ALATNET during the first half of 2001. The news about work or events are related with informations that you sent.

An electronic ALADIN Newsletter 20 is available on the ALADIN web site and an electronic ALATNET Newsletter 3 can be consulted on the ALATNET web site. These electronic Newsletters are different from this joined "paper" Newsletter as they do not include informations already detailed on the sites (only links instead of summary of these informations).

Please do bring to my notice anything that you would like to be mentioned in the next Newsletter (ALADIN 21 & ALATNET 4) before the 15th January 2002.

Any contribution concerning announcements, scientifical progress, publications, news from the ALADIN versions on workstations or on big computers, verifications results, ... will be welcome.

ALADIN Main events

1. *New ARPEGE-ALADIN libraries : Short report about the new cycle AL15*

This new cycle, in phase with CY24T1 of ARPEGE/IFS, contains several important technical changes:

- The ODB database (over-layer of Oracle/C++) replaces the CMA observation files.
- The shared memory code has been definitely removed - only mono-tasking, distributed-memory based code is now available. However, a new key LMPOFF can be switched on to switch off (!) any calls to message passing routines. This facility is available for Full-Pos and configuration 001.
- A new message passing library, MPL, replaces the former ECMWF-MPE.
- The spectral transforms have been packed into a separate library: "*tfl*" (TF24T1 under clearcase) for global spherical, "*tal*" (TA24T1 under clearcase) for biperiodized fields.

Many scientific improvements, linked to the various CYCORA tests on top of CY22T1, on the stabilisation of the non-hydrostatic version of ALADIN and local code improvements (e.g. SST gridpoint analysis) are present in this cycle. Mostly, the new options are easily accessible via namelist.

An official export version wase made available in November. Please note however that the code is not fully validated for all the potentially existing configurations : a fully working code is available for Full-Pos, conf001, NHS/001. Some new options such as the "semi-lagrangian on-demand communications" have been validated as well. The new spectral transform package was prepared in January / February by the Hungarian colleagues as a preparatory work to the actual phasing effort.

On the contrary, the data assimilation has not yet been validated. This is true both for CANARI/OI and Screening/3d-VAR. There, both the impact of the new ODB database and the code changes from CY22 to CY24 still have to be checked. Also, exotic facilities such as singular vectors, NHS/TL+AD have not been validated - e.g. it is known that the NHS/AD is bugged. Thus, none of the data assimilation configurations can be officially granted in the first export version of AL15.

2. *A new ALADIN Partner : Tunisia*

Tunisia entered the ALADIN partnership in April, as the 15th member, along the rules of the last MoU. Contacts were more than two years old, and a first team of three scientists was set up last year and came twice for training and research in Toulouse. Another two will be trained in September. A first pre-operational version of ALADIN/Tunisia is running in Toulouse, waiting for the implementation of ALADIN-dedicated computers in Tunis.

3. *10-years ALADIN anniversary*

The celebration of the 10-years anniversary of the ALADIN project was organized in Paris, on May 31st, by a working group of directors mandated by the last Assembly of Partners (and with significant help from GMAP). It was a great day, as described in the article hereafter. This was also an opportunity to have the new MoU signed by the now 15 Partners.