Skill of operational models

Report from the working group held in Medulin (Cr), 3 June 2002

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ALADIN versions problem

Status of operational suites in ALADIN community :

- model versions from AL9 to AL15
- majority uses the AL12 different versions
- some problems in old version of the model may be solved in new version
- Météo-France will not spend time to investigate if some of the problems are solved or not

OBLIGATION :

<u>End of the year is the dead line for implementation of at least AL12-op6 (CYCORA-bis).</u>

Problems with portability

- xrd part and Makefiles or compilation scripts
- ECMWF change from time to time xrd part for their OS.

CURE OF THE PROBLEM :

In November 2002 :Workshop about Maintenance in Budapest. ; workshop is recommended especially for people who are involved in phasing and compiling at home.

There is not enough exchange of information about producing of executables and installing between countries with same Computers manufactures (SGI : 5 countries, DEC : 4 countries).

Using of new Physics from AL15 with version of ALADIN older than AL12-op6 is not possible without phasing of some other part of code (xrd, definition of output variables at the beginning), not just physics routines.

ODB problem

Diag-Pack is still part of ALADIN code, tools for converting from ODB to CMAFOC format exist in Toulouse.

Still problems with AL15 with assimilation (ODB) part. Question : is it possible to use AL12 for assimilation or analysis and AL15 for e001, ee927 ?

SUGGESTIONS:

1. to get the help from computer vendors
2. to get help from ECMWF : Almost all ALADIN Countries are ECMWF; during next TAC Meeting representatives of all present ALADIN Countries could ask for help in porting of ODB on platforms that are used in ALADIN Community.

CPU time

Results of integration speed comparison of different model versions are needed. With this information meteorological services could make forecast about needed Computer power.

LBC Data transmission

New way of receiving of the coupling files for LACE Countries by satellite (RETIM 2000), it is not known how often errors will occur during the transmission of the files: backup possibilities ISDN, Internet-not enough reliable for operational purpose.

Definition of rules for changing of the common telecommunication LACE domain is needed, agreement with MF.

Operationally 4 runs per day are run only at Météo-France.

MF will produce time table of available products that other Met. Service and MF could make plan for transmitting / receiving of data.

The problem of a back-up centre for the production of LBCs in case of severe problem in Toulouse comes back with changes in LACE management.

Next steps in :

Tuning of the orography

Tuning of the physics

How to solve problem of differences in skill between 00 and 12 UTC runs ? (esp. with blending)

Coordinator for operational aspects : somebody from Météo-France is needed.

There is in not enough communications between ALADIN Countries !!!!!

Joint pieces :

Status of operational suites

Summary of the latest changes in ARPEGE/ALADIN physics