

Scientific and technical aspects

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Contents

1. Cycles (code releases)
2. Major code evolutions; link with ECMWF
3. Aladin-specific technical coordination (ACNA)

(1) Common cycles (headlines)

- CY40T1:
 - MF (Full-POS2, IO_server, new SL options for HR)
 - Aladin (VFE-NH)
 - Hirlam (code normalization features)
- CY41: merge of CY40T1 and CY40R2 (ECMWF); Fortran code re-factoring for OOPS
- CY41T1:
 - MF (Arpège & Arome-France high-resolution, code optimization, OOPS-aspects)
 - Aladin (Alaro-1 update, LAM OOPS aspects)
 - Hirlam (CA in Alaro, SODA, compiler porting, GNSS bias correction)
- CY42: next merge with ECMWF CY41R2; further code re-factoring for OOPS

(1b) Cycles (timing and coordination)

- CY40T1: December 2013 – March 2014
- CY41: April – July 2014
- CY41T1: December 2014 – February 2015
- CY42: March – June 2015
- Involvement of Aladin “phaser” staff in Toulouse, Hirlam System coordinator (U. Andrae) and some System Experts; MF staff
- Technical videoconferences: MF + ECMWF + Aladin + Hirlam to discuss cross-cutting code issues; one teleconf meeting every 2 months

(2) Code evolution

- There is now an acceleration of the modernization of the codes:
 - More modular coding in FORTRAN 90
 - Features of FORTRAN 2003
 - C++ for COPE and OOPS
- **OOPS** (Object Oriented Prediction System): steady progress even if some delays have occurred. OOPS concepts become increasingly efficient for designing the (main) FORTRAN code in IFS
- **COPE**: new observation pre-processing code for IFS; coordination meeting beg. of June 2014 => exchange first codes and share specific tasks between ECMWF, MF, Aladin/Hirlam
- OOPS and COPE are scheduled for IFS Operations in 2015
- **Scalability Program**: Programme Board (MF, Aladin and Hirlam are represented); specific sub-programs (OOPS, COPE, OAFS, PolyMitos, etc.)

(3) Aladin C Coordination for Network A Activities

- This is activity “below the red line”, coordinated within Aladin by the Coordinator for Networking Activities
- Examples:
 - Preparation and chair of LTM meeting,
 - coordination of the installation of “export” versions in partner countries,
 - coordinated information spread and collection among partners (if relevant for all),
 - support for coupling with Arpège: LBC and climate files,