

Report on maintenance activities

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Calendar of IFS and interim cycles

Maintenance = Phasing (quite centralized) + code cleaning (split) + scientific developments (as decentralized as possible)

- CY35T2: February 09
 - OpenMP in SL/AD; TL/AD for SLHD
 - Scale selective DFI
 - Modified version of Alaro turbulence scheme
- CY36: July 09
 - Included CY35R3 from ECMWF/IFS
 - Dynamics code adapted for rotated Mercator projection

Calendar of IFS and interim cycles (2)

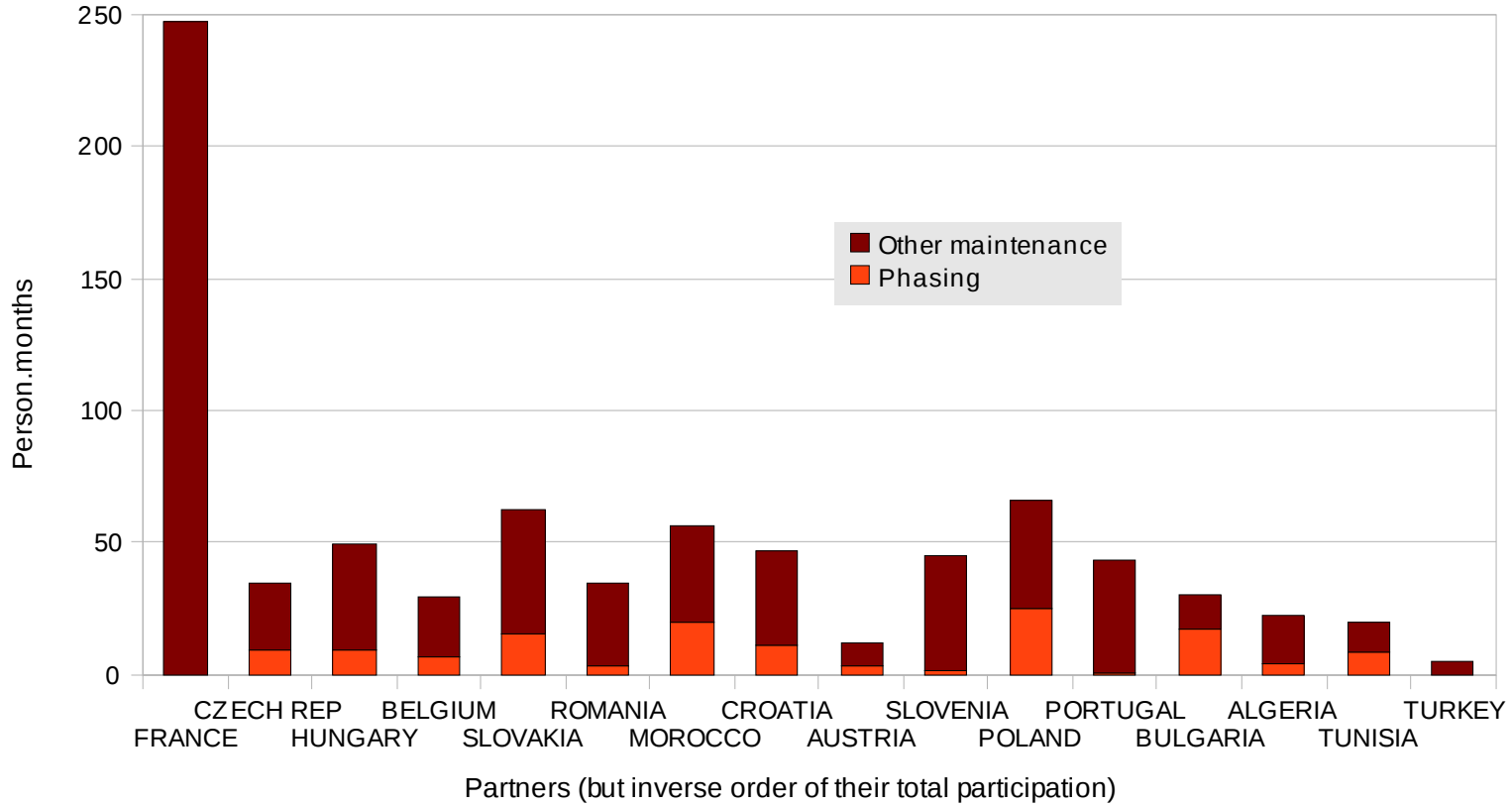
- CY36T1: December 09 => *export version*
 - Add (ϵ .Ts) to the control variable
 - Arp/Ald physics: EDKF, 3MT, new GWD for TL/AD, dynamics in DDH (if ready in time)
 - Alaro physics: various upgrades
 - Tessel-to-ISBA upgraded convertor (901)
 - Re-structured interface to POS
 - Optimization for 3D-VAR/LAM, etc ...

Calendar of IFS and interim cycles (3)

- CY36T2: to be prepared in March *or* April 10 (exact period still to be decided)
 - Various upgrades for MW and IR radiance assimilation
 - Arp/Ald simplified physics: changes in GWD, microphysics (adjustment), convection (Betts-Miller)
- CY37: to be prepared over May/June *or* June/July 10 (exact period still to be decided)
 - CY36R3: GRIB_API interface mandatory in the IFS (replaces GRIBEX)

Maintenance effort by country since July 2001

Phasing / outside phasing



Future ...

- Phasing will continue, including invitations to Toulouse ! => 6 week stays for IFS/Arpège phasing; ***possibility to pair 2*3 weeks for interim cycles***
- Discussions about code overhaul:
 - « OOPS » project lead by ECMWF (brainstorming stage)
 - Several actions about physics/dynamics interfacing
 - Continuous cleaning efforts
- Understand and enhance cooperation with HIRLAM on maintenance issues and phasing