Report on Operations

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Evolution of MF's operations

- 24/11/10:
  - Assimilation of SSMI/S, GRAS/METOP, AMSU/B over sea ice
  - Extend the use of ensemble DA error variances
  - Arpège physics changes & new diagnostic outputs
  - Arome-FR: bigger domain, 7 more radars in assimilation, smaller thinning boxes for IASI & AIREP, surface assimilation "à la Surfex"
  - Etc …
- New Aladin models: Antilles-Guyane, Polynésie F., Nlle Calédonie
- 13/12/10: PEARP V3 goes to operations
- Next E-suite: to be launched between December and January:
  - Monitoring of new sat obs (RARS/ATOVS, EARS, SSMI/S from F-18)
  - Changes in Arpège physics
  - Assimilation: new low resolution clim files
  - Aladin-FR: Surfex in prognostic mode
  - Arome-FR: changes in the microphysics, & representation of orography
  - Etc …

New ALARO Base Line

- to go with 3MT concept until the kilometric scales (precipitation convection cannot be fully resolved with 2-3 km mesh-sizes)
- Moist boundary layer parametrization with a single additional prognostic variable (TKE)
- a unique description of cloudiness (in all schemes radiation, turbulence, 3MT)
- Operational Implementations:
  - Operational:

  BE (4km), CZ (4.7 km), RO (6.5 km)
  - In daily tests:

  AT (4.9km), SI (4.4km)

Operations overview in partner centers:

Algeria	Austria	Belgium	Bulgaria	Croatia	Czech R
36T1	35T1	35T1	31T1	35T1 ?	35T1
~ MF	ALARO in test	ALARO		ALARO	ALARO
France	Hungary	Morocco	Poland	Portugal	Romania
36T1	33T1	29T2	35T1 ?	35T1 ?	35T1 ?
ARPEGE 36T1		Upgrade very soon			ALARO

Slovakia	Slovenia	Tunisia	Turkey
35T1 ?	35T1	29T2	35T1
ALARO	ALARO in test		ALARO