Cycling

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Recent cycles

• CY46T1_bf.06: last bf version; will require additional fixes before a potential export version (bf.07?)

• CY47; CY47T1 (valuable versions but nothing to say here !)

• CY48: declared end of August 2020

• CY48T1:
  • build started in October 2020
  • incremental integration approach
  • intensive use of “davaï” testing tool
  • Declaration date not yet decided, pending (for now) validation of specific tests
• SURFEX v8.1+; ocean/atmosphere coupling interface

• ARPEGE:
  • Snow analysis
  • physics changes: interface to Tiedtke scheme, GELATO with OpenMP

• AROME: optional fog deposition in ICE3

• Model diagnostics: aviation (clouds); convection; lightning density

• Dynamics: VFE cleaning; d5/W for NH; code optimizations

• Code infrastructure for 3D effects in physics (dataflow for horizontal derivatives in GP part)

• OBS: VarBC for Mode-S; SCATT; radar;

• OOPS-Arpege and Arome updates; EnVar updates
Content of CY48T1 (non exhaustive) - 2

- **ALARO:**
  - TOUCANS improvements and cleaning; fix for graupel
  - Latent heat nudging code; obs options (DOW etc.)

- **Hirlam/Harmonie-Arome:**
  - SPP extension to LAM for EPS
  - LAM/4D-VAR for Harmonie-Arome
  - Obs and Bator changes
  - LUNBC flexible level definition (coordinated with dynamics)
Next cycles: tbc with ECMWF

• CY49: Autumn 2021 or only 2022?

• CY48T2:
  • pending decision on CY49 & discussion within MF/ACCORD
  • If kept, T2 would be devoted to integration of pending contributions from the T1 proposals + reporting of oper & bugfix branches
  • In this spirit, partners are invited to approach the Integration Leader for proposals

• 2021-2023: expect impact from code adaptations to GPU & separation of concern implementation (data structures, DSL tool chain etc.)