



About models code development and validation.

Alexandre Mary
Météo-France

ALADIN-HIRLAM Wk/ASM 2020

- 1 Proposal for Working practices
- 2 Validation system

Following the Toulouse *strategy meeting* (System task team) :
⇒ redaction of a proposal of new working practices for the collaboration on the models code development, under progress :

Proposal

- **Git project** : Content, structure of branches, repositories, accessibility
- Continuous **integration procedure** for Development releases
- **Common cycles** with ECMWF : smooth the process (Git, cross-tests)
- **Validation System** : Davai, portability
- Git-and-around **development platform** (GitLab, Redmine, ...) : prototype to come, but : *cloud-based ? MF-hosted (cf. Surfex) ? ... ?*

Status of Davai

- *State-of-the-art* experiments exist in SWAPP/Olive for **CY46T1** and **CY47T1**, including much of the tests for DA (ARPEGE/AROME).
+ “model” tests under progress
- **Ciboulaï** dashboard has gained in maturity ; the reporting from the tasks works properly ; most experts have been developed.
- A reference experiment and results will be established on **CY48**, and the use of Davai will be ***strongly recommended*** for contributions to **CY48T1**.
- Access to SWAPP/Olive and *Ciboulaï* through firewall (“Parme”)
⇒ technically OK
- **Davai** already helped the validation of DA in CY47T1 :
 - 3 bugs in adjoint of CONV observation operators : Z, T, U
 - issue in adjoint of MW obs-op in LAM in CY46T1 (not solved yet, but OK in CY47T1)
 - bug in GPSSOL screening

Thank you for your attention !