

ALADIN : a common tool for different uses --> options are necessary

Consensus

- To use new DDH in Arp/Ald/Aro
- To converge to an unique interface between physic and dynamic in Arp/Ald/Aro (and Hirlam to be discuss) following F.Bouysse paper and the summary of the group on that subject
- To use “Lopez microphysics” in 3MT and to code for tests purposes the possibilities to deactivate the sub grid treatment of precipitations
- To split ICE3 in subroutines (one per process) and to check the results are unchanged in Arome and Meso-NH, with the objectives
 - to test (before to use) ICE3 in 3MT by the partners
 - to study impact of microphysics in 3MT context
 - to test sedimentation : collection and not only auto-collection (long time step)
- Test of 3MT in Arp/Ald with “Lopez microphysics” and CBR, keeping separate shallow convective scheme (KFB or EDKF) and working together on clouds treatment
 - Given a framework for evaluating 3MT at Arome resolution

Proposal on how to collaborate

- We keep the principle : only one code between Meso-NH and Arome for the parameterisations, to be able to put them in operation quickly in Arome
- Some adaptations will be still needed to benefit in Arp/Ald (long time scale)
- In the other way, difficulties can occur to put the development made in Arp/Ald in Arome/MesoNH (it is mainly a Météo-France problem)

Open questions

- 3MT is it useful at 2 km scale ?
- Sub grid treatment of precipitation is it necessary at high scale ?
- Link between shallow convection and 3MT
- Cooperation on validation : 1D model, satellite simulators