



# 1<sup>st</sup> ACCORD All Staff Workshop

## 12 - 16 April, 2021

12 April 2021	Opening session S1: Code S2: Dynamics Posters introduction LTM meeting
13 April 2021	S3: Surface S4: Data assimilation Surface WG
14 April 2021	S4: Data Assimilation (cont.)
15 April 2021	S5: Physics
16 April 2021	S6: E.P.S & M.Q.A. Closing session

**Talks (including questions) : 20' each**  
**20' for discussions (or 5' when side-meeting later on)**

### Monday 12 April (09:00-17:30)

**Plenary opening session. Chair: POTTIER Patricia**

09:00	00:10	Opening of the meeting and welcome speech by Marianne THYRRING
09:10	00:20	FISCHER Claude                      The PM presentation: the first steps of ACCORD
09:30	00:20	SZINTAI Balazs                      Status of the C-SRNWP module of EUMETNET

09:50      00:30      *Coffee break*

**Plenary session: Code and system development (incl. adaptation to HPC). Chair : SANTOS MUÑOZ Daniel**

10:20	00:20	MUÑOZ Daniel Santos              System activities in HIRLAM-C
10:40	00:20	EL KHATIB Ryad                      gmckpack, 16 years of a build system
11:00	00:20	FISCHER Claude                      Cycling
11:20	00:20	MARY Alexandre                      Building new cycles: towards new practices
11:40	00:20	Discussion

12:00      01:30      *Lunch break*

		<b>Plenary session: Dynamics. Chair: AUGER Ludovic</b>	
13:30	00:20	SMOLIKOVA Petra & VIVODA Jozef	Generalization of the linear model used in the SI and ICI time schemes
13:50	00:20	PETITHOMME Harold	Vertical WENO interpolations in SL scheme
14:10	00:20	Discussion	
14:30	00:50	<b>Poster introduction. Chair: FISCHER Claude</b>	
15:20	00:10	<i>Coffee break</i>	
15:30	02:00	<b>ACCORD LTM meeting</b>	
17:30			

## Tuesday 13 April (09:00-16:35)

		<b>Plenary session: Surface Chair: SAMUELSSON Patrick</b>	
09:00	00:20	SAMUELSSON Patrick	Overview of HIRLAM surface activities
09:20	00:20	BAKKETUN Åsmund	Representation of land surface physics in AROME-Arctic: Utilizing the multi-layer soil, snow and vegetation options
09:40	00:20	BIRMAN Camille	Assimilation of satellite retrieved land surface temperatures in AROME land surface model
10:00	00:20	KURZENEVA Ekaterina	Snow analysis and physiography
10:20	00:30	<i>Coffee break</i>	
		<b>Plenary session: Surface Chair (cont): SAMUELSSON Patrick</b>	
10:50	00:20	HAMDI Rafiq	Modeling drip irrigation underneath plastic mulch within SURFEX in a typical oasis station WLWS Xinjiang, China.
11:10	00:20	LEBEAUPIN BROSSIER Cindy	Towards ocean-atmosphere-wave coupled forecasts with AROME-NEMO-WW3: development, first results and future work
11:30	00:05	Discussion (side-meeting announcement)	
11:35	01:25	<i>Lunch break</i>	
		<b>Plenary session : Data Assimilation. Chair: RANDRIAMAMPIANINA Roger</b>	
13:00	00:20	STRAJNAR Benedikt	Data assimilation progress in RC LACE
13:20	00:20	RANDRIAMAMPIANINA Roger	HIRLAM Upper-Air Data Assimilation: Progress report
13:40	00:20	BROUSSEAU Pierre	Recent progress in the EnVar data assimilation system for AROME-France
14:00	00:20	BARKMEIJER Jan	Status of HARMONIE-AROME 4D-VAR
14:20	00:15	<i>Coffee break</i>	
14:35	02:00	<b>Side meeting on Surface. Chair: SAMUELSSON Patrick</b>	
14:35	02:00	<b>Side meeting on Dynamic. Chair: AUGER Ludovic</b>	
16:35			

## Wednesday 14 April (09:00-16:00)

		<b>Plenary session : Data Assimilation (cont). Chair: STRAJNAR Benedikt</b>	
09:00	00:20	VIGNES Ole	Including the host model state in LAM variational assimilation without a Jk term
09:20	00:20	ANDRAE Ulf	Can we derive structure functions using data from MEPS?
09:40	00:20	GEIJO Carlos	Development of assimilation setups suited for Nowcasting
10:00	00:20	SCHEFFKNECHT Phillip	Exploring New Observations for Austria's AROME RUC Nowcasting System
10:20	00:30	<i>Coffee break</i>	

**Plenary session : Data Assimilation (cont). Chair: RANDRIAMAMPIANINA Roger**

10:50	00:20	ERDMANN Felix	Assimilation of Meteosat Third Generation (MTG) Lightning Imager (LI) pseudo-observations in AROME-France – Proof of Concept
11:10	00:20	COMBARNOUS Pauline	An observation operator for geostationary lightning imager data assimilation in storm-scale numerical weather prediction system
11:30	00:20	MARTET Maud	Radar data assimilation in AROME-France
11:50	00:20	HAGELIN Susanna	Evaluating the use of Aeolus satellite observations in Harmonie-Arome

12:10 01:30 *Lunch break*

**Plenary session : Data Assimilation (cont). Chair: STRAJNAR Benedikt**

13:40	00:20	LINDSKOG Magnus	Use of microwave radiances from Metop-C, FY-3C and FY-3D satellites in MetCoOp data assimilation
14:00	00:20	ERESMAA Reima	Radiance assimilation in the presence of systematic errors
14:20	00:20	RANDRIAMAMPIANINA Roger	Impact of satellite radiances in an European regional reanalysis

14:40 00:20 *Coffee break*

**Plenary session : Data Assimilation (cont). Chair: RANDRIAMAMPIANINA Roger**

15:00	00:20	MONTEIRO Maria	DAsKIT progress report
15:20	00:20	CENGIZ Yelis	The Use of SAPP at TSMS
15:40	00:20	Discussion	
16:00			

**Thursday 15 April (09:00-16:30)**

**Plenary session : Physics. Chair: ONVLEE Jeanette**

09:00	00:20	BOUTELOUP Yves	Description of the proposed modifications in physics for the 2021 Arpege e-suite
09:20	00:20	SEITY Yann	Recent developments in AROME physics
09:40	00:20	TIJM Sander	HARMONIE-AROME physics developments
10:00	00:20	BOCHENEK Bogdan	LACE physics developments
10:20	00:20	MAŠEK Ján	Improvement of TOUCANS two-energy scheme

10:40 00:30 *Coffee break*

**Plenary session : Physics (cont). Chair: TUDOR Martina**

11:10	00:20	MARQUET Pascal	Impacts of changes in the conservation of pseudo-enthalpy (Arpege/Alaro) and the turbulent mixing length (Arpege/Arome)
11:30	00:20	SBII Siham	A new parametrization of the boundary layer forcing in the deep convection scheme of Bechold et al., 2014 and its implementation
11:50	00:20	de ROOY Wim	Open cell convection
12:10	00:20	IVARSSON Karl-Ivar	New developments of cloud physics etc. in Metcoop

12:30 01:30 *Lunch break*

**Plenary session : Physics (cont). Chair: BAZILE Eric**

14:00	00:20	ENGDAHL Bjørg Jenny	Aircraft icing forecasts with the ICE-T microphysics scheme
14:20	00:20	THEEUWES Natalie	Implementation of a wind-farm wake model in HARMONIE-AROME
14:40	00:20	TUDOR Martina	Modelling wave height and sea surface current direction using neural networks

15:00 00:10 *Coffee break*

**Plenary session : Physics (cont). Chair: BAZILE Eric**

15:10	00:20	RONTU Laura	Status of ACCORD cloud-aerosol-radiation task PH6
15:30	00:20	MARTIN Daniel	Impact of CAMS aerosols in HARM-ARO and update
15:50	00:20	NIELSEN Kristian Pagh	Improved cloud optical properties
16:10	00:20	Discussion	
16:30			

**Friday 16 April (09:00-16:00)**

**Plenary session : EPS and MQA. Chair: FEDDERSEN Henrik**

09:00	00:20	FROGNER Inger-Lise	HarmonEPS developments
09:20	00:20	RAYNAUD Laure	Arome-France EPS : current status and future directions
09:40	00:20	WASTL Clemens	LAM-EPS activities in LACE
10:00	00:20	ESCRIBÀ Pau	Status of the convection-permitting AEMET-gSREPS
10:20	00:20	CALLADO-PALLARÈS Alfons	EUMETNET SRNWP-EPS convection-permitting LAM-EPS database

10:40 00:20 *Coffee break*

**Plenary session : EPS and MQA (cont). Chair: FORTELIUS Carl**

11:00	00:20	FEDDERSEN Henrik	Running HarmonEPS ensemble members in single precision
11:20	00:20	STEIN Joël	New neighborhood-based CRPS
11:40	00:20	Discussion	

12:00 01:30 *Lunch break*

**Plenary closing session. Chair: FISCHER Claude**

13:30	02:00	Summary and plans for the future, by Area: - Transversal activities by Areal Leaders (Piet TERMONIA & Daan DEGRAUWE) - Dynamics by Area Leader (Ludovic AUGER) - Data Assimilation by Area Leader (Roger RANDRIAMAMPINANINA) - Physics parametrisations by CSC Leaders (Eric BAZILE, Jeanette ONVLEE, Martina TUDOR) - Surface by Area Leader (Patrick SAMUELSSON) - EPS by Area Leader (Henrik FEDDERSEN) - MQA by Area Leader (Carl FORTELIUS) - System by Area Leader (Daniel SANTOS)	
15:30	00:30	Final discussion	
16:00			