1st ACCORD All Staff Workshop
12 - 16 April, 2021

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 gmkpack, 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
Tuesday 13 April (09:00-16:35)

**Plenary session: Surface**  
*Chair: SAMUELSSON Patrick*

- **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  
  Coffee break

**Plenary session: Surface (cont):**  
*Chair (cont): SAMUELSSON Patrick*

- **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  
  Lunch break

**Plenary session : Data Assimilation.**  
*Chair: RANDRIAMAMPIANINA Roger*

- **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  
  Coffee break

- **14:35** 02:00  
  Side meeting on Surface. *Chair: SAMUELSSON Patrick*

- **14:35** 02:00  
  Side meeting on Dynamic. *Chair: AUGER Ludovic*

- **16:35**

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

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

- **09:00** 00:20  
  VIGNÉS 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  
  Coffee break
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 Bechhold 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 RANDRIAMAMPIANINA)
- 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