New phase of the EUMETNET programmes

WGCEF, Dublin, 26–27 September 2019

Dick Blaauboer, FCAM

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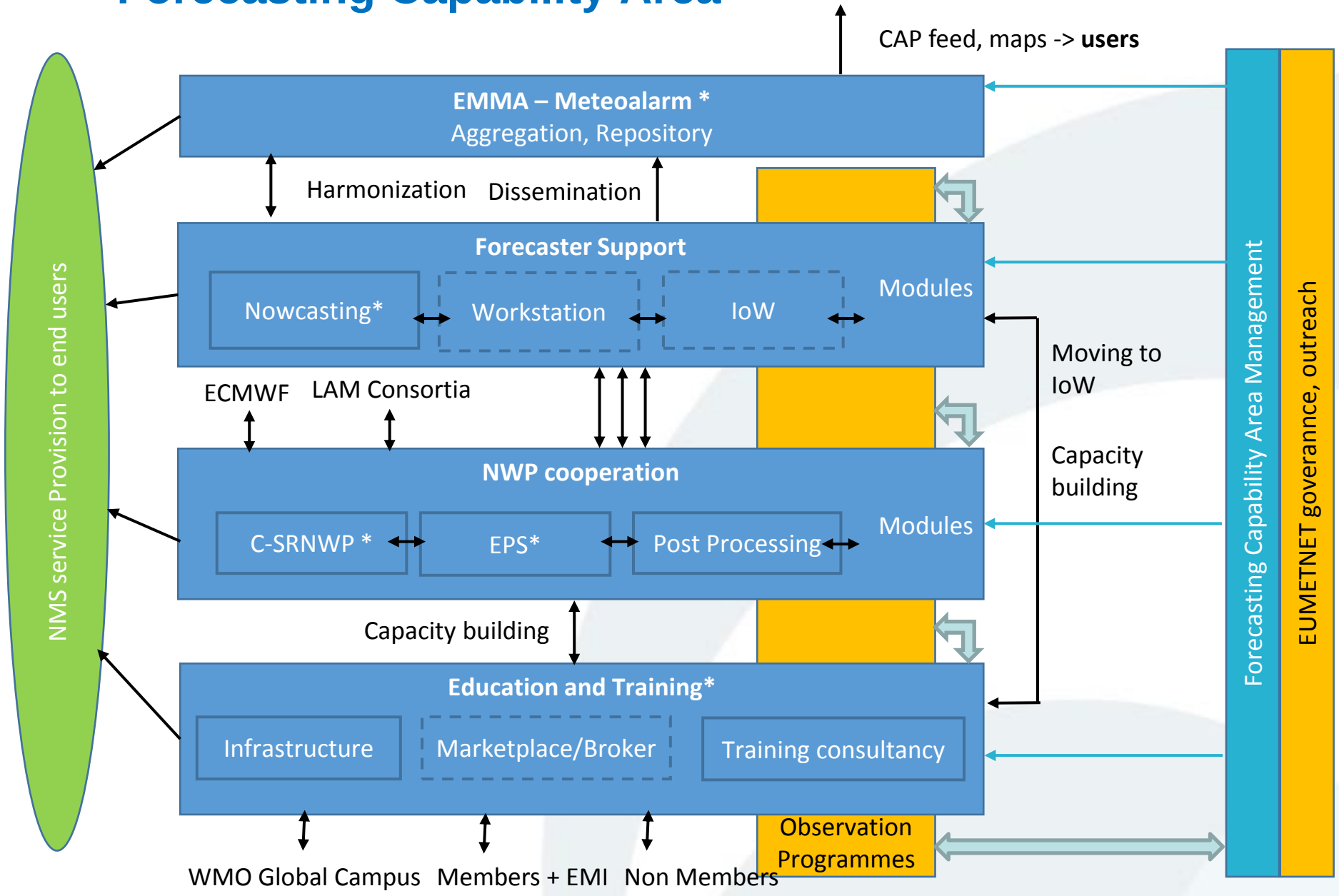
Forecasting Capability Area



EMMA

Andreas Schaffhauser, ZAMG

- **alert hub and repository** (shapes, polygons, ID's)
- major **redesign of the system** – transition to meteoalarm2.0
- next iteration of the **Meteoalarm CAP profile**
- further support EUMETNET members to deliver **easy understandable impact-oriented, multi-lingual warnings**
- additional warning parameters
- implementation of **free (dynamic) polygons**
- incorporation of crowdsourced impact observations
- worldwide **knowledge transfer** for regional warning platforms / warning community building
- **support of the GMAS** concept of WMO

alerthub.meteoalarm.eu

Current status

- **Design of Meteoalarm2.0 in final state**
- **MEG and MPG meeting in Zagreb concurrently with WGCEF**
- **Draft of Storm Naming information layer being discussed**
- **Cross country communication on the agenda**

EMMA

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E-Nowcasting

Francesca Schmid, ZAMG

3rd European Nowcasting Conference

24 - 26 April 2019

ENC 2019 European Nowcasting Conference

AEMet Madrid, Spain

Forecaster Support

No PM

Main features:

- **Seamless prediction systems**
  - Inventory & Guidelines
- **Identification of new observation data**
  - Satellites
  - Aircraft based observations
- **Verification**
  - Tools for objective verification and comparison of systems
- **End user**
  - Identification of user groups and their requirements
- Coordination & outreach
  - **European Nowcasting Conference (2019, 2021, 2023)**
  - Coordination with EUMETNET and WMO programmes

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NWP Cooperation

Stéphane Vannitsem,RMI

C-SRNWP module

Balazs Szintai,OMSZ

Main features:

- **Foster communication among NWP consortia**
- **Coordination with EUMETNET Obs Programmes**
- **Organizing EWGLAM/SRNWP meeting 30 Sep.-3 Oct. 2019, Sofia**
- New: Short Term Scientific Missions: selection procedure, 2-3 missions per year, this year one approved
- **Most work done in 8 cross consortia topical expert teams**

SRNWP EPS module

Alfons Callado, AEMET

Main features:

- Consortium AEMET, RMI, ItAF/REMET (ARPA left the consortium) led by Alfons Callado (AEMET) and Francesca Marcucci (ItAF/REMET)
- Enhancement of cooperation on LAM-EPS
- **Improving high impact weather prediction**
- **Development of several high impact weather parameters**
- **Contracts with hired developers signed**

Post-processing module

Stéphane Vannitsem, RMI

Main features:

- Post-Processing = use of statistical techniques to correct weather forecasts or climate predictions
- **Objectives:**
  - **Demonstrate the benefits**
  - **Define best practices**
  - **Develop methods and tools**
- 2 phases: 3 years + 2 years (after approval)
  - Compilation of current activities literature review
  - Demonstrate the techniques on a testbed shared by NMSs and the ECMWF
- **Workshop Brussels, 9-11 December**

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Eumetcal 2.0

Heleen ter Pelkwijk, KNMI

- Led by KNMI in cooperation with DHMZ
- **New TSO: Tomislav Marekovic (DHMZ)**
- Continuation of most important Eumetcal features:

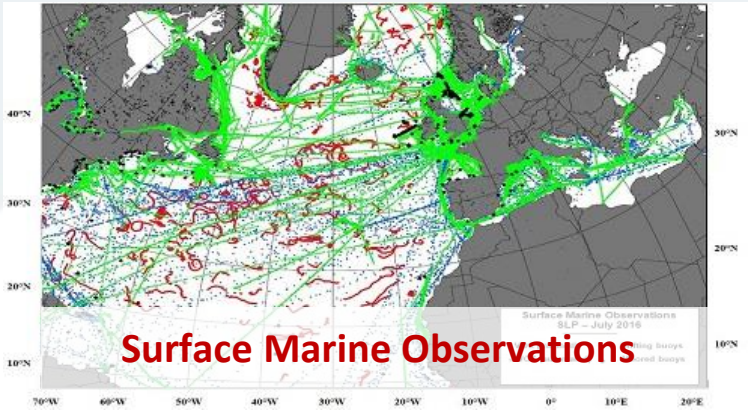
a) **Training infrastructure**
b) **Communication of training activities**
c) **Eumetcal Workshop**
d) **WMO Train the Trainer**

- **Perform an extensive training and infrastructure needs assessment** under all Members and partnering institutes involved with EUMETNET
- **Reconsider all the objectives of the EUMETNET E&T Programme**
- Make a plan for the continuation of the Eumetcal2 Programme for the rest of the period

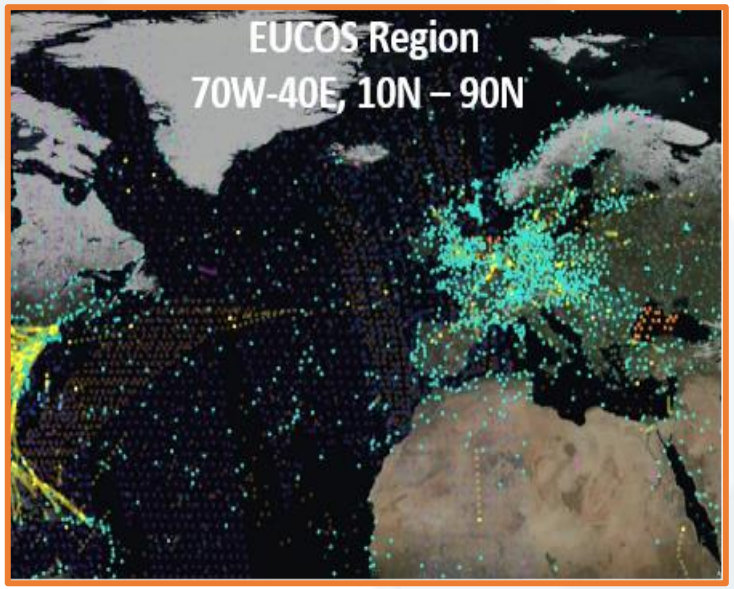
Latest news:

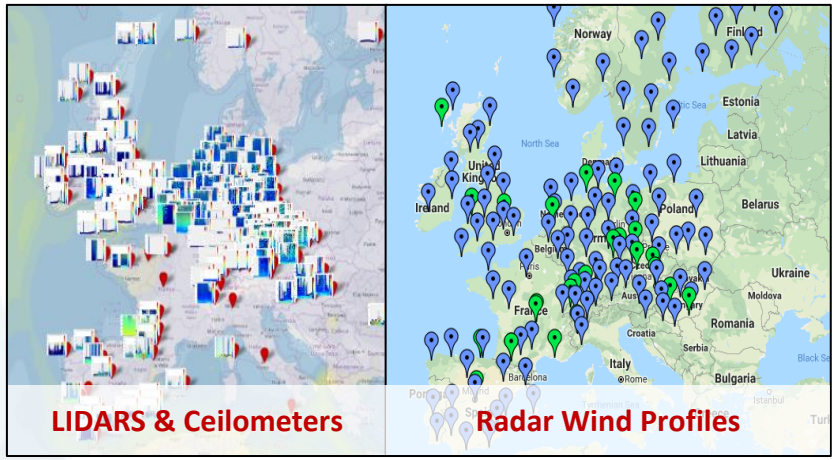
- WGET and ESG: ToRs
- **CALMet/Eumetcal workshop, Darmstadt, 17-20 September big succes**
- Webex Training Center in place
- **Implementation new Learning Management System (LMS) delivered**

EUMETNET Composite Observing System (EUCOS)



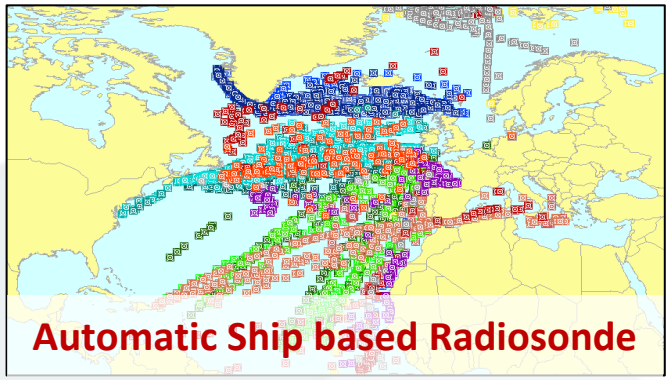
Surface Marine Observations



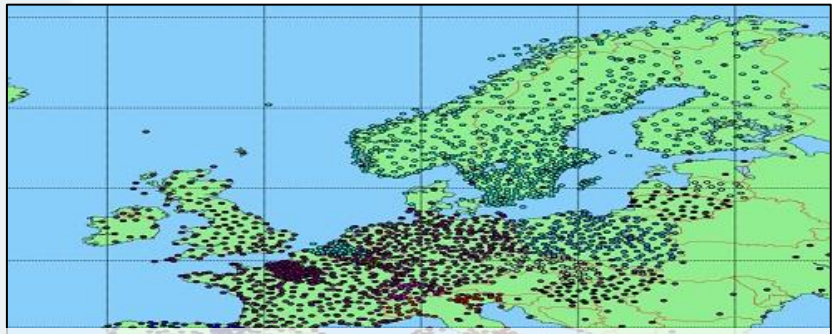


LIDARS & Ceilometers

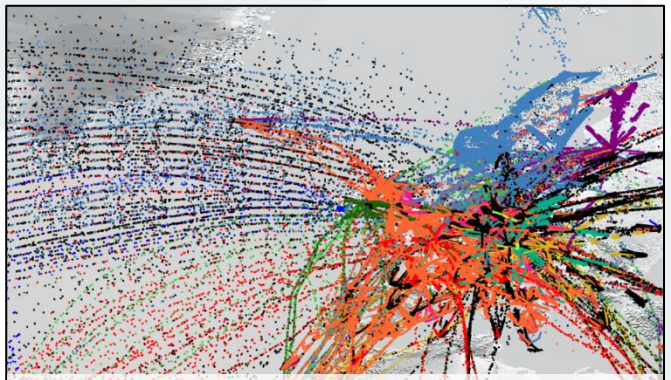
Radar Wind Profiles



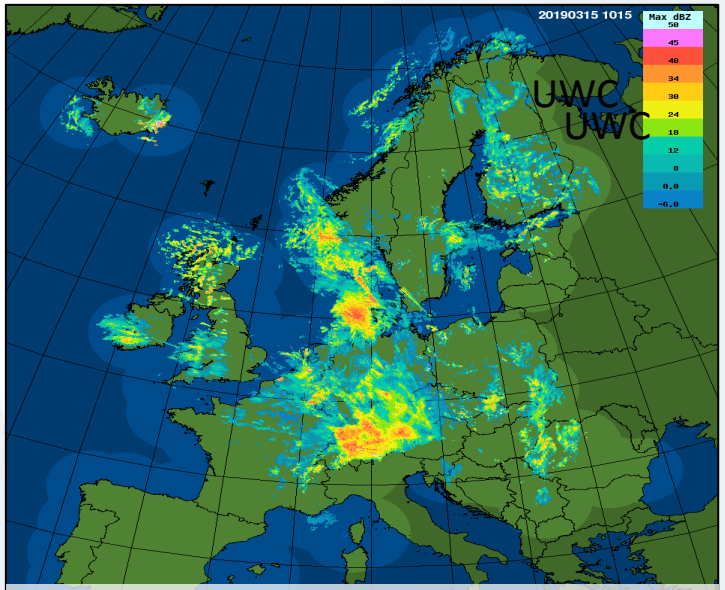
Automatic Ship based Radiosonde



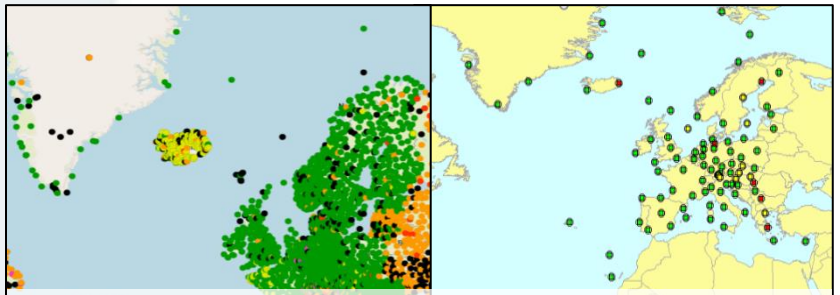
GNSS Derived Humidity (ZTD)



Aircraft Based Observations



Weather Radar – Regional Products



Surface AWS and Radiosonde Stations - *Coordination*

Key Activities Obs. programmes

- **Start of a new Programme Phase;** Jan 2019 saw the start of a new 5-year programme phase for all programmes, confirming EUMETNET's continued commitment to collaborative observations activities.

- **New leadership;** the Met Office has taken over responsibility for leading the EUMETNET Observations activities, working in partnership with DWD (who led this task previously):
  - Bruce Truscott, Jacqueline Sugier, Peter Gault, Tanja Kleinert

- **The initial focus of the next phase;**
  - Seamlessly re-establish all observations programmes ensuring the continued flow of operational data
  - Develop a EUMETNET Obs Programme R&D Plan aimed at addressing users priority needs
  - Investigate barriers to observation data sharing and exchange, facilitating access to new data
  - Further automate and enhance the network monitoring tools with the aim of progressively improving network performance
- **ABO User Workshop**
  - 12-13 February 2020, ECMWF, Reading
  - Interested forecasters are requested to indicate their possible attendance to share their experiences with using ABO data

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Crowdsourcing

- EUMETNET activities (workshops) on CS: Toulouse , May 2017, Helsinki, February 2018
- 3rd EUMETNET WS on CS, hosted by MetOffice, Exeter, 12-13 March 2019
- STAC decided in March 2019 that a Task Team would work on the ToR for a EUMETNET Working Group on CS
- Chair TT: Gwenaelle Hello, MétéoFrance
- Main purpose: to monitor ongoing crowdsourcing activities in Europe and start cooperation activity whenever feasible and beneficial for EUMETNET Members
- Interest for forecasting: impact observations, nowcasting

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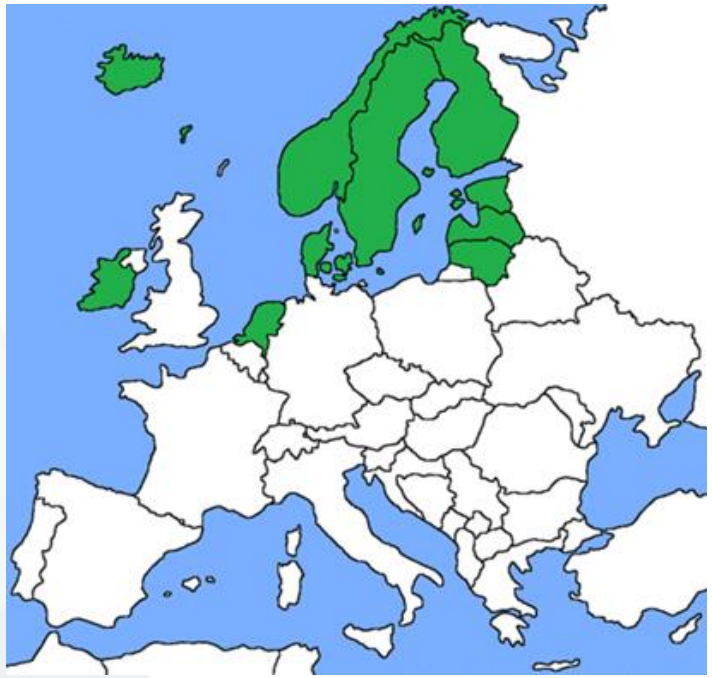
UWC: United Weather Centres

- Cooperation of 10 countries: Denmark, Sweden, Norway, Finland, Estonia, Latvia, Lithuania, Iceland, Ireland, the Netherlands
- Observer status for NMSs interested to join: AEMET
- NWP partner: Hirlam-Aladin
- Logo and white paper
- Position paper
- In 2 steps to full operational cooperation (HPC+NWP/EPS) from 2027

- First step two sub-consortia:
  - Iceland, Denmark, Ireland, the Netherlands, operational from 2023
  - All WG meeting: Dublin 24-25 September
  - New WGs: Post-processing, Forecaster
  - MetCoOp, existing operational cooperation (Norway, Sweden, Finland), to be extended with Baltic states, ESTEA first to join



UWC

UWC West

UWC East
MetCoOp

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EMS 2019, 2020

- The EMS Annual Meeting 2019 was held from 9 to 13 September 2019 at DTU, Lyngby
- Ca 850 visitors from 50 countries
- Session organized by EUMETNET C-SRNWP:
  - Challenges in High Resolution Short Range NWP at European level including forecaster-developer cooperation
  - Convener: Balázs Szintai, Co-Conveners: Chiara Marsigli, Emily Gleeson
- Forecaster session, convened by Henri Nyman, Christian Csekits, Evelyn Cusack, Antti Mäkelä
- Next EMS Annual Meeting: 7–11 September 2020 at the University of Economics, Bratislava, Slovakia

Workshops&meetings in FCA or related

- 30 Sep.-3 Oct, Sofia: EWGLAM/SRNWP (EUMETNET)
- 21-25 Oct 2019, Madrid: workshop SRNWP EPS (EUMETNET)
- 4 November 2019: 18th Informal Conference of South East Europe NMHS Directors (ICSEED-18) with special item on Storm Naming in SE Europe
- 12-14 November, De Bilt, EGOWS meeting
- 9-11 December 2019, Brussels: workshop Post-processing (EUMETNET)
- 22-23 January 2020, De Bilt: EUMETNET Core Team meeting (EUMETNET)
- 12-13 February 2020, ECMWF, Reading: ABO (Air Born Observations:AMDAR, Mode-S) User Workshop (EUMETNET)
- 4-8 May 2020, Offenbach: several meetings including EMMA, HoF, TTSN, ET Forecasting (EUMETNET)

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Thanks for your attention !

- **Dick Blaauboer**

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