

# Developments in the EUMETNET Forecasting Capability Area

43rd EWGALM / 28th SRNWP Meeting, Video Conference 27 Sep – 1 Oct 2021  
Dick Blaauboer, EUMETNET FCAM



**EUMETNET**  
EUROPEAN METEOROLOGICAL  
SERVICES NETWORK

## 26th Assembly Headlines – Programmes

Continuation of the **PostProcessing** Module for rest of programme phase approved

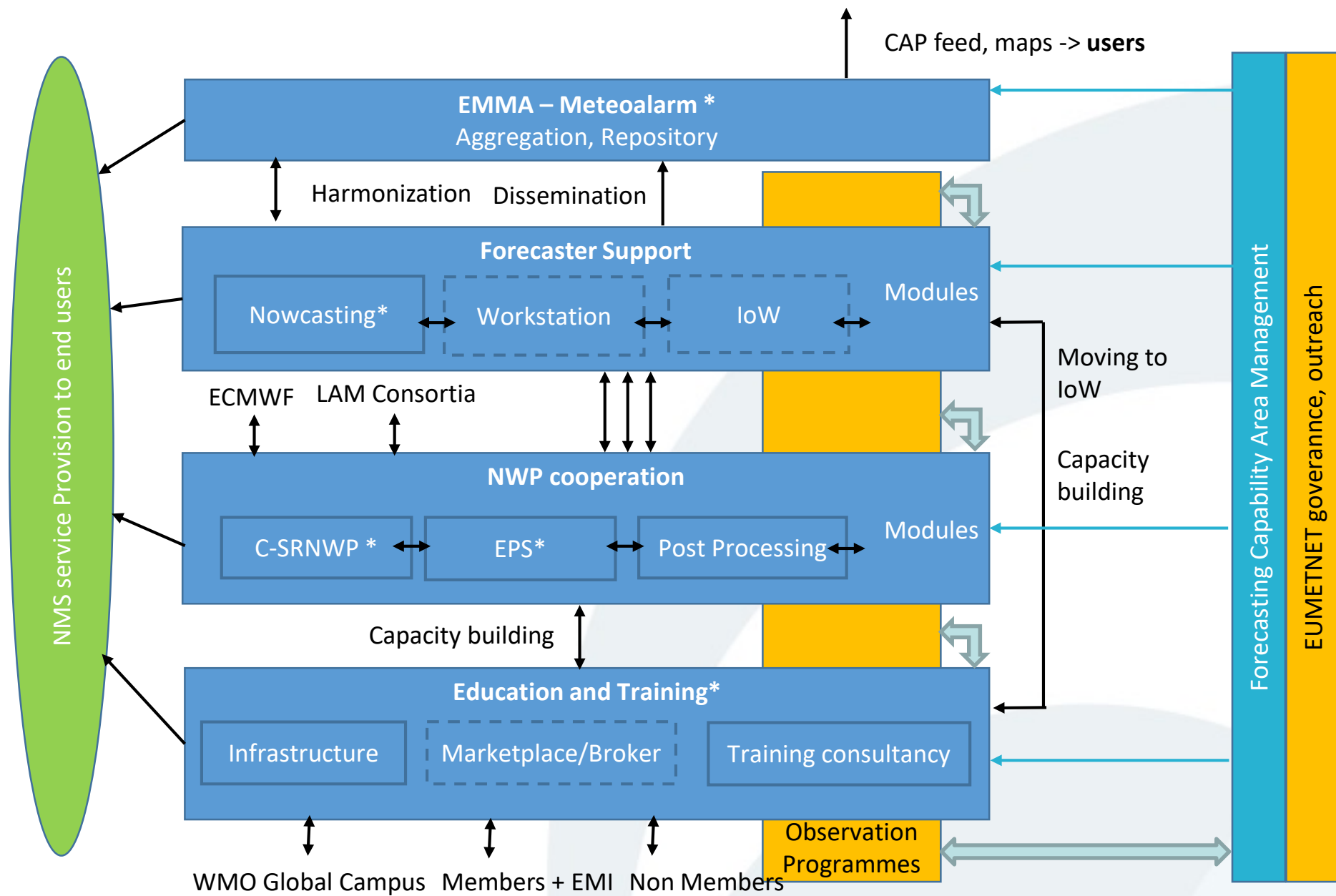
Federated Data Coordination Mechanism (**FDCM**) principles approved

High-value dataset (**HVD**) high-level principles endorsed; duration of Task Team extended

EUMETNET Supplementary dataHub (**E-SOH**) – full business case to be developed by March 2022

Shared Data Infrastructure Steering Group (**SDISG**) established for FDCM, HVD & E-SOH

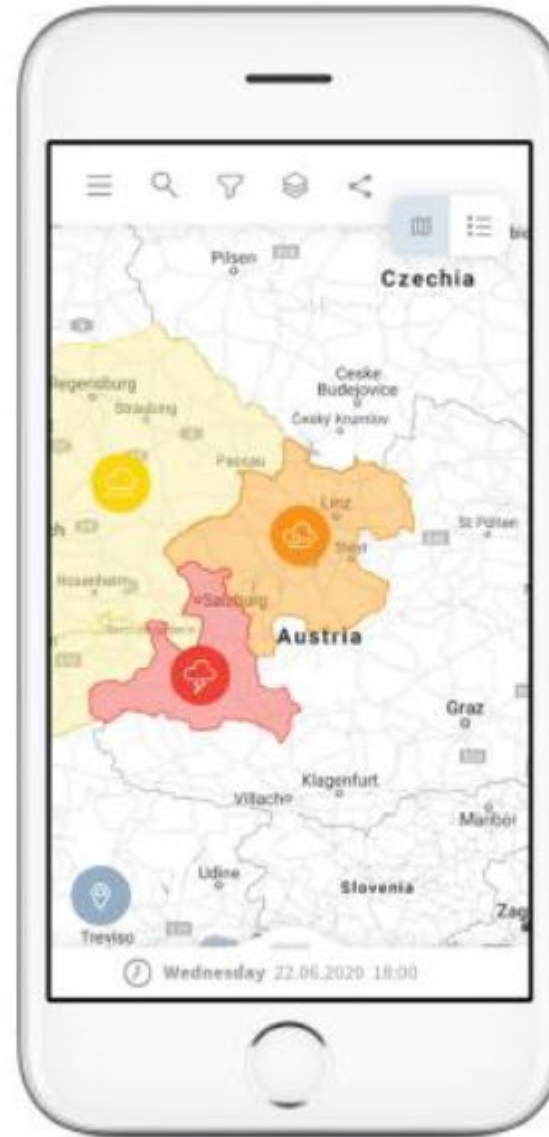
Aviation – MET Service provision to EUROCONTROL's Network Manager to be further explored and discussed at extraordinary Assembly meeting on 25 June



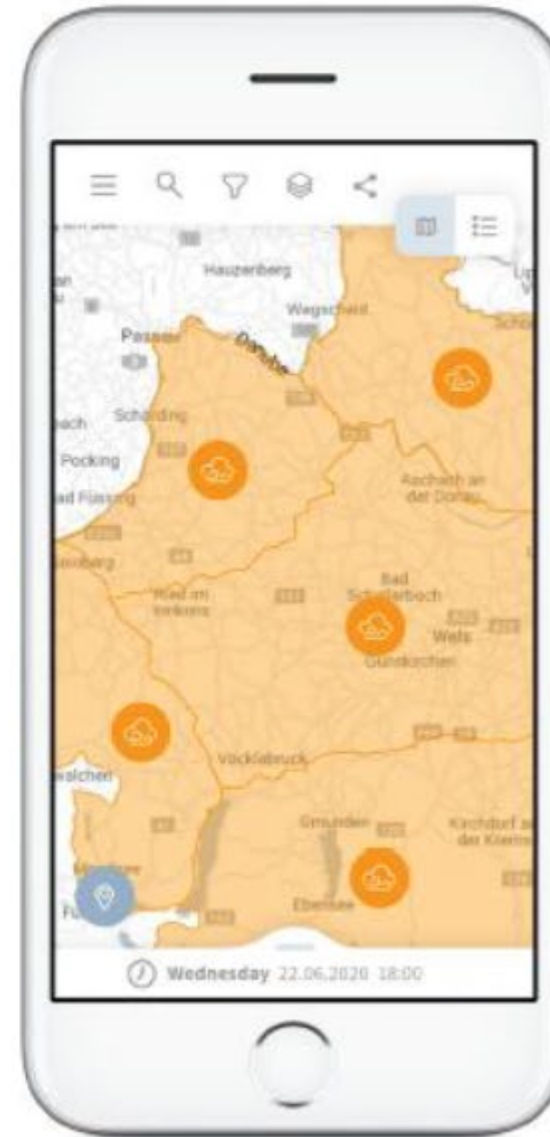
Map view



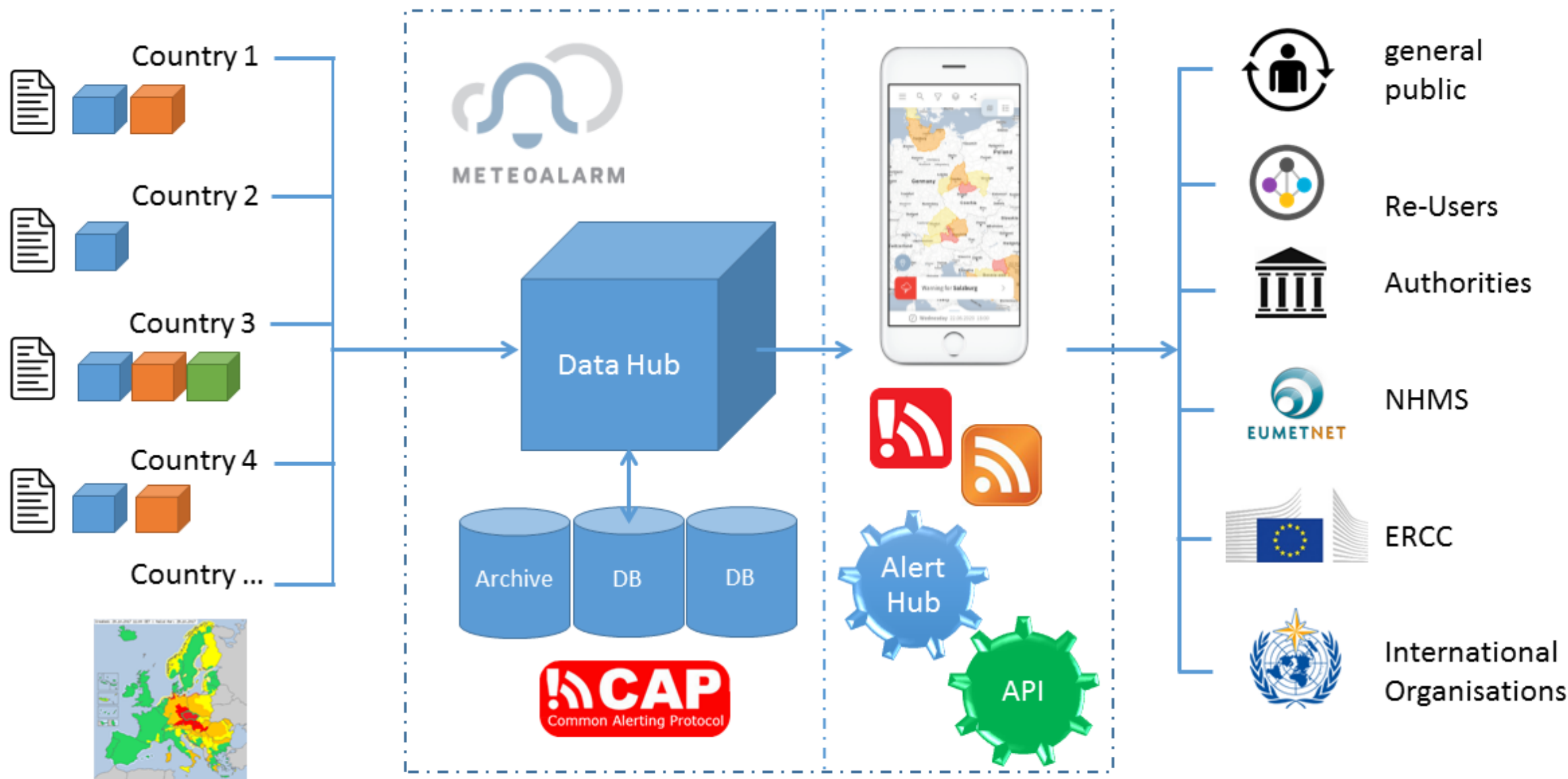
Level: Europe



Level: Country



Level: Local area



Producers

Meteoalarm hub

Consumers

# EMMA, facts

- Commissioning of the Meteoalarm 2.0 system on May 20
- Old system switched off end of May, 5 Members not yet operational
- Change from XML to CAP (Common Alert Protocol) has almost been completed: 34 Partners deliver the warnings in CAP
- CAP Working Group actively working on new version CAP Profile 2.1, to be established this autumn
- Chair Andreas taking position as deputy Director at ZAMG, new Programme Manager Rainer Kaltenberger
- Chair Meteoalarm Expert Group (MEG), Paul Davies, MetOffice, stepping down from his position, new chair tbd

EMMA  
Andreas Schaffhauser, ZAMG



# Update Eumetcal

Heleen ter Pelkwijk, KNMI

- The eumetcal.eu portal has been functionally updated, currently (Sep 2021) **836 users and 260 active courses**
- New **webtools** added: Moodle, TurningPoint, Webex, Learning Management System (LMS)
- The Eumetcal-2 Plan for 2021 -2023 was approved by the 25<sup>th</sup> Assembly of Members. As part of this, Members agreed to fund a total of **1 FTE of an Instructional Designer (0.5 FTE hired from COMET and 0.5 FTE hired from Members)**
  - Tsvet Ross-Lazarov, UCAR/COMET (US)
  - Fabienne Werder, MeteoSwiss
- **Expertise center/forum:** exchange of **knowledge, available E&T material, courses etc.**
- Eumetcal **Webinars: 7 during last year**

**Eumetcal**  
Heleen ter Pelkwijk, KNMI

# E-Nowcasting

Francesca Schmid, ZAMG

- During the ongoing project phase focus is on **seamless prediction systems and new observations** suitable for nowcasting;
- An Excel sheet is available with characteristics of seamless prediction systems (most of the systems are under development); it's a living document; it will be updated as soon as new information becomes available;
- **Special issue initiated in Meteorologische Zeitschrift** with 11 articles (10 are published already, 1 is in the review process);
- **Surveys for NMHSs and their users** have been finalized. The full survey reports are **available on the EMN portal** (<https://portal.eumetnet.eu/display/DOCASIST>). The main outcomes of the reports will also be **published in an international journal**, and also in the **White Paper on Nowcasting** initiated by EUMETSAT. The surveys carried out by E-NWC might be used as reference for surveys that are now in preparation in other parts of the world (**in cooperation with WMO**);
- Cooperation with the Obs CA Programme, Eumetcal, cooperation with WMO verification group;
- next European Nowcasting Conference planned for spring 2022 preferably in person, Members are invited to host this conference

E-Nowcasting

Francesca Schmid, ZAMG



# Postprocessing update

Stéphane Vannitsem, RMI

- **Postprocessing module extended until end of Phase, 2023**
- **Successful joint virtual workshop** on postprocessing and ensemble forecasts in October 2020
- Active contribution of EUMETNET members in the different activities organized within the module
- A successful **session on postprocessing** was held during the General Assembly of the European Geophysical Union (**EGU, 2020**)
- A **special issue in the Journal “Nonlinear Processes in Geophysics”** on postprocessing got finalized in December 2020 ([https://npg.copernicus.org/articles/special\\_issue1017.html](https://npg.copernicus.org/articles/special_issue1017.html))
- The **review paper on postprocessing and blending** has been accepted in 2020 in **Bulletin of the American Meteorological Society**. 10 EUMETNET countries were involved in this activity. (<https://doi.org/10.1175/BAMS-D-19-0308.1>)

Postprocessing  
Stéphane Vannitsem, RMI

# Postprocessing update (2)

- **First discussions and implementation steps concerning the benchmark of postprocessing techniques** took place during 2020:
  - o Discussion ongoing on the design of the testbed
  - o ECMWF and NMS data
  - o First test for the dataset constitution and download started January 2021
  - o Details available on the portal :  
<https://portal.eumetnet.eu/display/PBM/Post-Processing+Benchmark>
- **Meeting with ECMWF on the Weather Cloud Services** (September 2020), outcomes:
  - o **Benchmark on the cloud:** set-up matrix on the portal
  - o **Options for NMS Operational Post-Processing at ECMWF**
  - o Actual Status: **Access to the Weather Cloud Services** (in test) **was granted to the project**
  - o A first application is currently running to constitute the dataset
- Development plan:
  - 0: Preliminary phase (2021)
  - 1: The "hacky" phase (2022)
  - 2: "Toward automation" phase (2023)

# Working Groups, Expert Teams

Working Group on Education&Training, WGET and Eumetcal Steering Group, ESG

- Chair: Steven Callaghan (MetOffice)

Working Group on Cooperation of European Forecasters, WGCEF

- Chair: Christian Csekits (ZAMG)
- Task Team on Storm Naming, chair: Evelyn Cusack (MetÉireann)

Working Group on Crowdsourcing

- Chair: Anne-Lise Beaulant (MF)

Expert Team Forecasting

- Chair: Thomas Kratzsch (DWD)

Expert Team Nowcasting

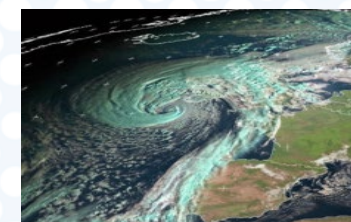
- Chair: Franziska Schmid (ZAMG)



## Storm Naming Rules West & Southwest Groups



- Storm depression (large depression not a local wind)
- Based on Warnings in the Meteoalarm framework ORANGE or RED .....impact-based and/or thresholds  
Can be for wind, rain or snow
- NMS which a) first issues the warning or b) the NMS who expects high impacts names the Storm/low pressure system in consultation with other partners.
- It keeps its name given by a NMS & NHC Miami
- Names picked by NMS's (public suggestions and/or communications division in NMS)



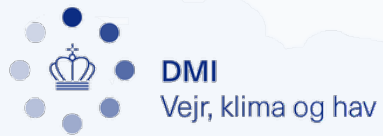
# Storm Naming (2)

- West group: UK/Ireland/Netherlands
- Southwest group: Spain/Portugal/France/Belgium
- Central Europe group:  
Germany/Austria/Switzerland/Poland/CzechRepublic/Slovakia/Hungary
- North group: Norway/Sweden/Denmark
- Central Mediterranean group:  
Italy/Malta/Croatia/Slovenia/Montenegro/North Macedonia/Bosnia and Herzegovina/Albania
- East Mediterranean group: Cyprus/Greece/Israel

Storm Naming  
Evelyn Cusack (MetÉireann)

# Developments outside EUMETNET





REPUBLIC OF ESTONIA  
ENVIRONMENT AGENCY



Koninklijk Nederlands  
Meteorologisch Instituut  
*Ministerie van Infrastructuur en Waterstaat*



LATVIJAS VIDES, ĢEOLOĢIJAS  
UN METEOROLOĢIJAS CENTRS



Lithuanian  
Hydrometeorological  
Service



Meteorologisk  
institutt

**SMHI**



# UWC: Joining forces for the best short-range weather forecasts



# UWC

- MetCoOp: MET Norway, SMHI, FMI, ESTEA: operational
- UWC West: DMI, MetÉireann, IMO, KNMI: starting operation 2023
- UWC preparation: 10 parties + possibly AEMET: operational from 2027
- Strategy and governance structure: currently Council + Steering Committee
- PM + 6 Working Groups: NWP, HPC Inf, LGF/IPR, Obs Preprocessing, Postprocessing, Verification

## CONTACT DETAILS

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**Forecasting Capability Area Manager**

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European Meteorological Services' Network  
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**Thanks for your  
attention !**