New phase of the EUMETNET programmes

WGCEF, Dublin, 26–27 September 2019
Dick Blaauboer, FCAM
Forecasting Capability Area

- **EMMA – Meteoalarm**: Aggregation, Repository
- **Forecasting Capability Area Management**
- **Moving to IoW**
- **Capacity building**

**NMS service Provision to end users**

- **Harmonization**
- **Dissemination**

**NWP cooperation**

- **C-SRNWP**
- **EPS**
- **Post Processing**

**Education and Training**

- **Infrastructure**
- **Marketplace/Broker**
- **Training consultancy**

**Observation Programmes**

- **WMO Global Campus**
- **Members + EMI**
- **Non Members**

**Forecasting Capability Area**

- **IoW Workstation**
- **IoW**

**Forecasting**

- **Area Management**
- **Consultancy**
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

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
E-Nowcasting
Francesca Schmid, ZAMG

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

NWP Cooperation
Stéphane Vannitsem, RMI

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Post-processing module
Stéphane Vannitsem, RMI

Main features:
• Post-Processing = use of statistical techniques to correct weather forecasts or climate predictions
• Objectives:
  o Demonstrate the benefits
  o Define best practices
  o Develop methods and tools
• 2 phases: 3 years + 2 years (after approval)
  o Compilation of current activities literature review
  o Demonstrate the techniques on a testbed shared by NMSs and the ECMWF
• Workshop Brussels, 9-11 December
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**
- **Automatic Ship based Radiosonde**
- **Aircraft Based Observations**
- **Weather Radar – Regional Products**
- **LIDARS & Ceilometers**
- **Radar Wind Profiles**
- **GNSS Derived Humidity (ZTD)**
- **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
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
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
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)
- 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)
Thanks for your attention!

• Dick Blaauboer
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