

Developments within Eumetnet

**WGCEF meeting
27-28th of September 2023,
Tallinn, Estonia**

Aline Kraai, EUMETNET FCAM



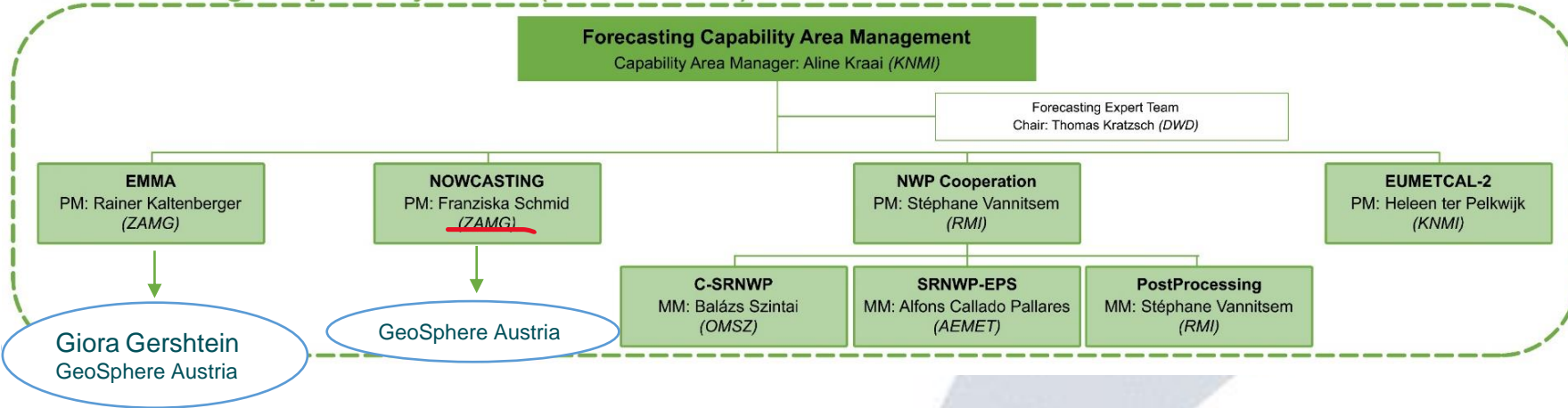
EUMETNET
EUROPEAN METEOROLOGICAL
SERVICES NETWORK

Forecasting Capability Area – next phase and furthermore

- New Programme Phase (2024-2028)
 - Current Programme phase ends 31/12/2023, new phase will start 01/01/2024.
- From Forecasting to Capacity Capability Area Programme

Forecasting Capability Area 2019-2023

Forecasting Capability Area (2019-2023)



In addition, two STAC Working Groups:

- Working Group on Cooperation between European Forecasters, including the Task Team on Storm Naming.
- Working Group on Education and Training.

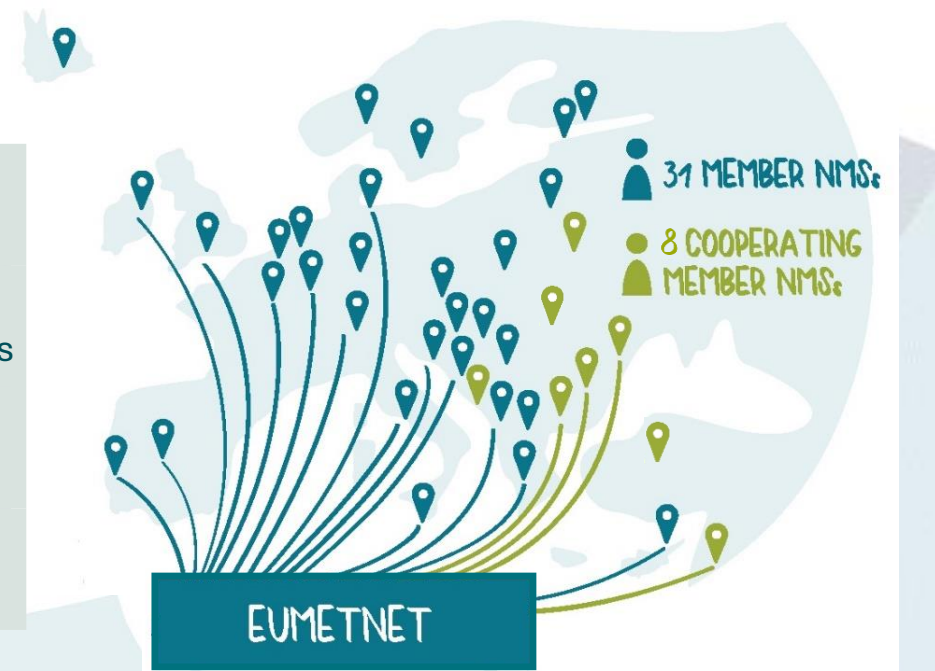
FCA MP consists of 4 Programmes, with 3 Modules:

- EMMA
- E-NWC
- NWP-C:
 - C-SRNWP Module
 - SRNWP-EPS Module
 - Post Processing Module
- EUMETCAL-2

New EUMETNET Structure

Strategic goals

- A. Collective observations, development of innovative observing methods and enabling access to third party observations to improve observations coverage
- B. Federated community approach to efficiently deliver high-quality and user-friendly weather- and climate-related information - data, products, and services
- C. Coordinated development and knowledge exchange to enhance Members' capacity for weather and climate-related services and advice for policymakers
- D. Effective policy support and collective representation of Members to promote and enable their missions and protect their collective interests



2022 – 2028 EUMETNET STRATEGIC GUIDELINES

OBSERVATIONS

FORECASTING

OTHERS

OBSERVATIONS

INFORMATION

CAPACITY

SUPPORT

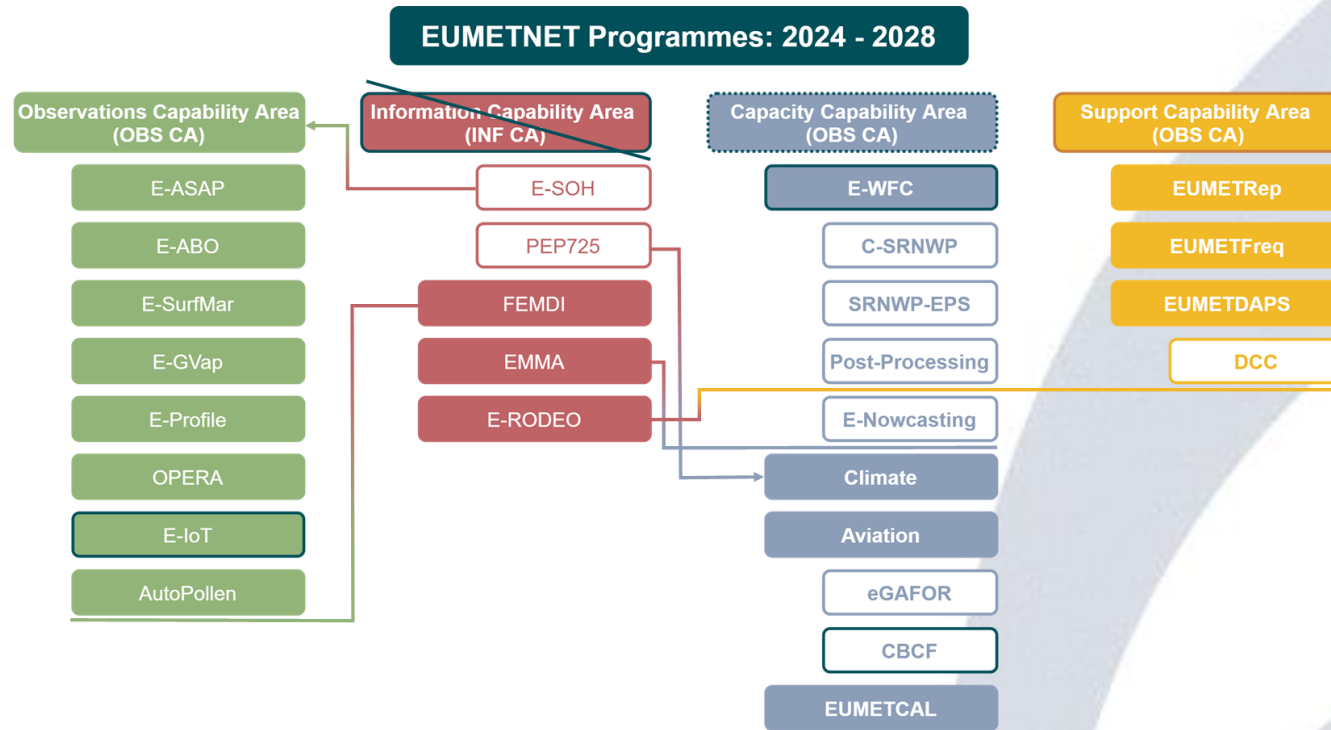
PROGRAMMES

Part of the preparation for the new Programme phase

New EUMETNET Programme phase (2024 – 2028)

- The launch of the new Programme phase coincides with a number of challenges
 - ❑ Efficient provision of access to High-Value Datasets
 - ❑ Exploitation of novel data sources (e.g. IoT)
 - ❑ Transition towards impact-based forecasting and warnings
 - ❑ Use of artificial intelligence in weather and climate services
 - ❑ ...
- ... but it also coincides with HUGE inflation
- Inability to compensate for inflation requires careful prioritisation making savings whilst minimising the impact on Members' benefits.

Capacity Capability Area 2024-2028



CSA CA MP will consist of 5 Programmes with 7 Modules:

- Aviation Support Programme
 - eGAFOR
 - CBCF
- Climate
 - PEP725
 - EMMA
- EUMETCAL-2
- E-WFC
 - E-NWC Module
 - C-SRNWP Module
 - SRNWP-EPS Module
 - Post Processing Module

Capacity Capability Area Management Programme (CSA CA MP)

Short Description of the Programme

The focus of the Capacity Capability Area Management Programme (CSA CA MP) will be on:

- capacity building (exchange of knowledge, coordination of R&D)
- the coordination of the programmes and other activities within the CSA CA
- recognising emerging issues, new initiatives
- representing EUMETNET at forecasting related events
- ensuring that fellow Capability Area Manager are well-informed about the Programmes

Changes to the NWP Cooperation Programmes

NWP Cooperation

C-SRNWP

SRNWP-EPS

Post-Processing

E-Nowcasting

EUMETNET needs to:

- tackle forecasting activities in more seamlessly
- better address users'/forecasters' needs
- exploit synergies between related activities

E-WFC

Weather Forecasting Cooperation

C-SRNWP (OMSZ → DWD)

SRNWP-EPS (AEMET → ITAF-MET)

Post-Processing (RMI)

Nowcasting (GeoSphere Austria)

AI/ML and EUMETNET

HoF - Heads of Forecasting

→ Different approaches regarding AI exist within NMHSs, but it was clear that further EUMETNET collaboration on AI is needed.

JOINT meeting October

→ Discussion on new Programme or Working Group on collaboration on AI/ML

What about AI and Future of Forecasters? How do you see this?

HoF (Heads of Forecasting) 22-23 May at DMI

Topics

- An overview of important topics for the next Programme phase
- The main focus on connection and communication, topics as Storm Naming, Cross Border Convection Forecast Collaboration, MeteoAlarm and the EUMETCAL hackathon were used as examples of good collaboration. The Hackathon as example: <https://youtu.be/9-3PzqQG254>.
- Meteorological Work Stations (MWS): 7 different MWS advantages and disadvantages of commercial systems versus in-house made systems.
- The new Weather Forecasting Cooperation Programme (E-WFC) discussion on timescale of seamless forecasting from nowcasting to short-range or from mid-range to seasonal



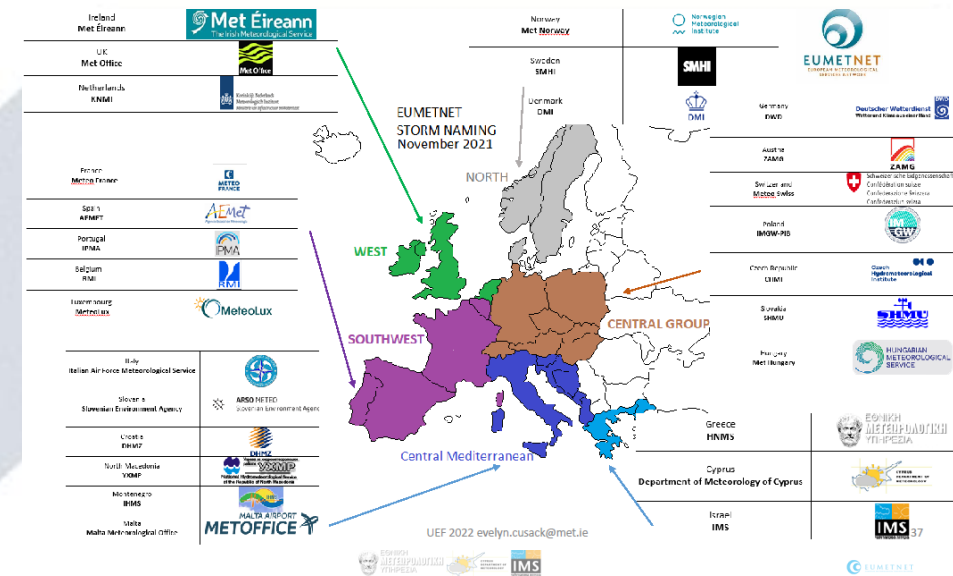
Storm Naming from HoF (Heads of Forecasting)

Topics

→ The main focus on connection and communication, topics as Storm Naming, Cross Border Convection Forecast Collaboration, MeteoAlarm and the EUMETCAL hackathon were used as examples of good collaboration.

→ Storm Naming:
 Platform like CrossBorderConvectionForecast (EUFOCS) (in English)
 One list for names: already years we talk about this. Difficult.
 Learn from the NHC on procedures
 Chat/whatsapp is needed to quick communication instead of this email list.
 Whatsapp group only for neighbouring countries.
 Sharepoint- channels, use for storm naming. But phone before.
 Lack of graphic interface with movement? Only coordination is given in email.
 Issue it on weather charts on analysis and prognoses?
 Storm Naming on Heat Waves and dust events?(discussion by email..?)

→ How to move on with the Task Team on Storm Naming? New chair?



HIGH IMPACT WEATHER NAMING COORDINATION FORM SOUTHEAST MEDITERRANEAN GROUP 2022/2023 stormnaming@eumetnet.eu

PHENOMENA ORIGIN	IONIAN SEA AND MAINLAND	NAMING NMHS/GROUP	NMHS / SEG	PROPOSED NAME	ELIAS
EXTREME WEATHER	STRONG WINDS / HEAVY PRECIPITATION / SNOW / COLD SPELL / HEAT WAVE / HEAVY DUST / OTHER				
MAXIMUM WIND WARNING LEVEL	Orange <input type="checkbox"/> Red <input type="checkbox"/>	EXTREME MAXIMUM TEMPERATURE WARNING LEVEL	Orange <input type="checkbox"/> Red <input type="checkbox"/>	DUST WARNING LEVEL	Orange <input type="checkbox"/> Red <input type="checkbox"/>
HEAVY PRECIPITATION WARNING LEVEL	Orange <input type="checkbox"/> Red <input type="checkbox"/>	EXTREME MINIMUM TEMPERATURE WARNING LEVEL	Orange <input type="checkbox"/> Red <input type="checkbox"/>	OTHER:	Orange <input type="checkbox"/> Red <input type="checkbox"/>
DESCRIPTION / REMARKS / GEOGRAPHICAL EXTENSION	A CUT OFF BAROMETRIC LOW OVER GREECE IN 500 hPa WILL PREVAIL MAINLY OVER CENTRAL AND SOUTH PARTS OF GREECE AND IONIAN SEA, WITH HEAVY RAIN AND THUNDERSTORMS			From 2023/09/24 22:00UTC to 2023/09/28 12:00UTC (YYYYMMDD)	
WARNINGS WEBSITES	Hellenic National Meteorological Service (HNMIS): https://www.hnmis.gov.cy/hnmis/ Department of Meteorology of Cyprus (DMC): http://www.moa.gov.cy/moa/dm/dm.nsf/home?openForm Israel Meteorological Service (IMS): https://ims.gov.il/index.html			DATE OF ISSUE (YYYYMMDD)	2023/09/24
				TIME OF ISSUE (HOUR:MINUTES)	22:00 UTC

List of names of Eastern Mediterranean Group 2022/23:
 Ariel, Barbara, Cloon, Daniel, Elias, Fedra, Guy, Helena, Iona, Jasmin, Kyros, Lahesis, Moses, Naias, Orpheas, Prina, Rigena, Shmuel, Thalia, Uranos, Vered, Xantia, Yonatan, Zoe.



STORM NAMING COORDINATION FORM WEST GROUP 2023/2024 stormnaming@eumetnet.eu

PROPOSED NAME	AGNES	FORECASTED LOW CENTRE LOCATION (at first orange/red wind warning onset time)	Latitude (in decimals)	51.3 N
NAMING NMHS/GROUP	Met Office (UK) / W Group		Longitude (in decimals)	11.6 W
FIRST WIND WARNING ISSUED	DATE (YYYYMMDD): 20230924 TIME (HH:MM UTC): 09:00 UTC	FIRST WIND WARNING ONSET	DATE (YYYYMMDD): 20230927 TIME (HH:MM UTC): 11:00 UTC	
MAXIMUM WIND WARNING LEVEL	Orange <input type="checkbox"/> Red <input type="checkbox"/>	OTHER ORANGE/RED WARNINGS ISSUED	Rain <input type="checkbox"/> Snow <input type="checkbox"/>	Coastal event <input type="checkbox"/> Others <input type="checkbox"/>
REMARKS	Large scale low pressure system bringing widespread strong winds to W & N UK. Whilst not unusually strong the widespread nature coupled with early season occurrence (first 1000hPa isobars etc. enhancing wind backing) means impacts are heavy. Only yellow warnings currently in force but these in the medium impact column (indicating the potential for escalation (to orange/red)) if necessary. Naming considered useful to assist with messaging and keeping the public safe.			
WARNINGS WEBSITES	MEDIA USE EMBARGOED UNTIL 20230925 - 1000 UTC. Met Office: https://www.metoffice.gov.uk/news/2023/09/24/agnes AEMET: https://www.aemet.es/en/actualidad/2023/09/24/agnes Met Office: https://www.metoffice.gov.uk/news/2023/09/24/agnes Met Office: https://www.metoffice.gov.uk/news/2023/09/24/agnes			

W: West Group: Anton, Betty, Gillan (Billie), Daisy, Elliot, Fajar, Gidon, Heidi (Jean-Dra), Mia (Jean-Dra), Juliana (Jan-Dra), Khalid, Lisa (Jan-Dra), Mark, Nelly, Owen (Jan-Dra), Petya, Raahel (Jan-Dra), Sam, Tobias, Val, Vitoria (Jan-Dra)
 SW: Southwest: Ahmed, Andrea, Ciro, David, Ewan, Gera, Hanneke, Isaac, Jolene, Karim, Laris, Mathis, Nee, Oscar, Patricia, Rafael, Sarah, Togo, Valeria, Vlad

Furthermore

New Portal

New portal and communication platform since March 2023
→ Sharepoint and Microsoft Teams (instead of confluence)

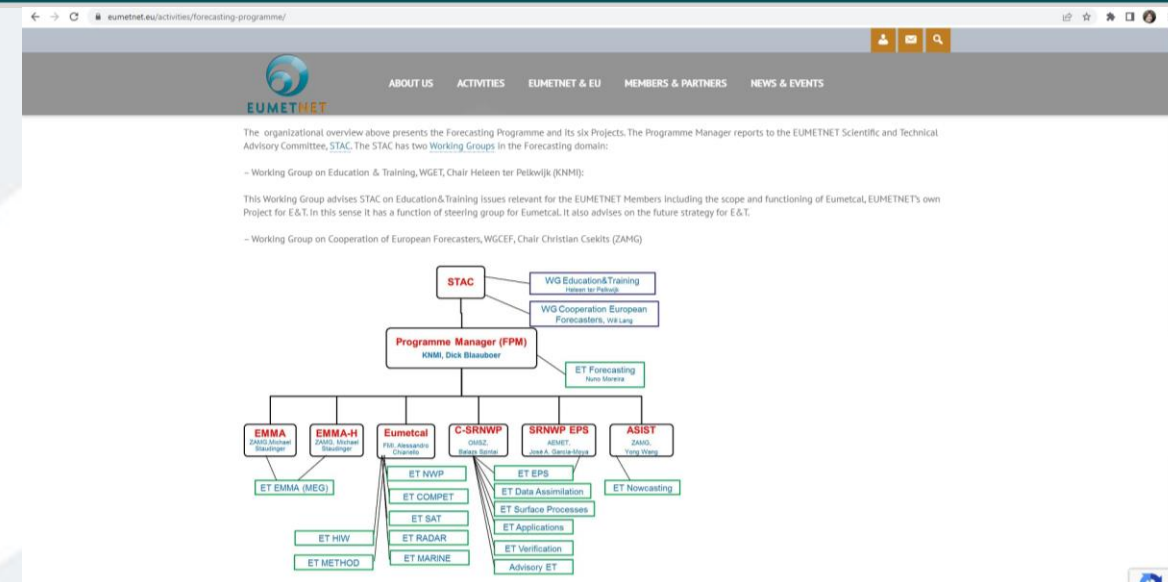
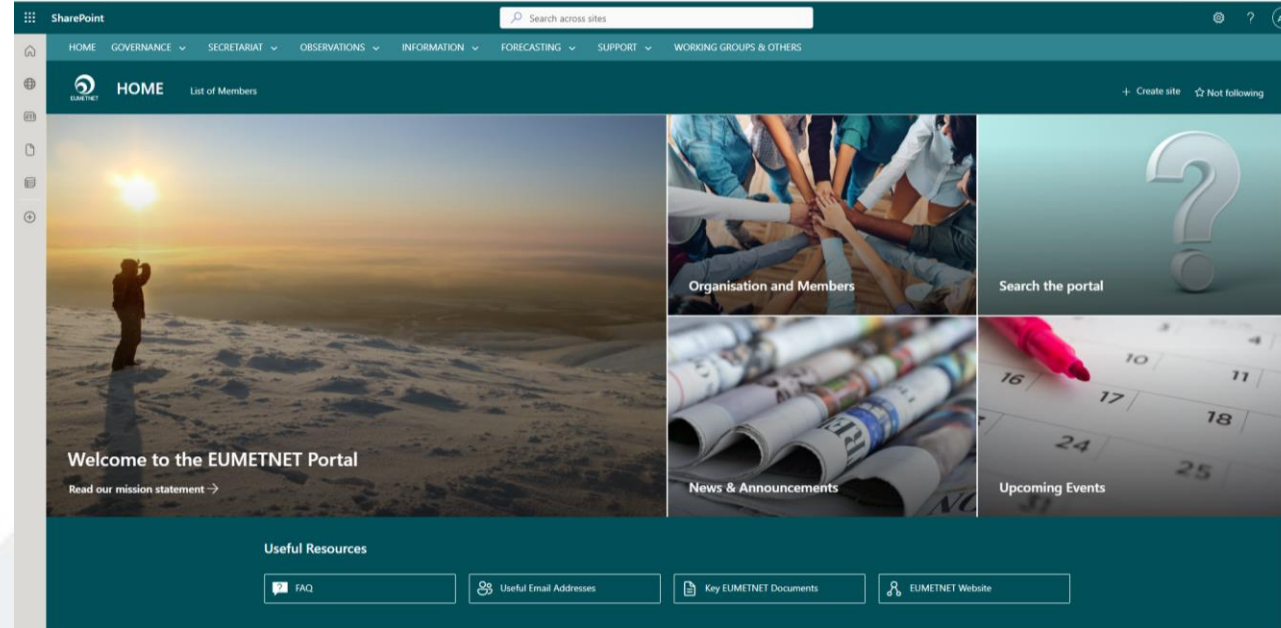
Website

Outdated → will be updated

European Meteorological Society (EMS)

This years conference (online and in Bratislava):
4-8 September 2023 was on
Europe and droughts: Hydrometeorological processes,
forecasting and preparedness
Next years conference: in Barcelona 2-6 September 2024

→ More on Forecasting issues?



Future of EUMETNET

- JOINT and Assembly meetings in Autumn:
 - decisions on prioritization for next phase and
 - decisions on Working Groups and Task Teams
 - discussion on AI/ML collaboration

CONTACT DETAILS

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EIG EUMETNET

European Meteorological Services' Network

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**Thanks for your
attention !**

Questions ?



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