

News about C-SRNWP

31 March 2025

Christoph Schraff (DWD, Germany)



EUMETNET Programmes: 2024 - 2028

Observations Capability Area (OBS CA)

E-SOH

E-IoT

E-ASAP

E-ABO

E-SurfMar

E-GVap

E-Profile

OPERA

AutoPollen

Capacity Capability Area (CSA CA)

E-WFC

C-SRNWP

SRNWP-EPS

Post-Processing

E-Nowcasting

EMMA

Climate

PEP725

Aviation

eGAFOR

CBCF

EUMETCAL

Support Capability Area (SUP CA)

EUMETRep

EUMETFreq

EUMETDAPS

DCC

E-RODEO

E-AI

Organization

EUMETNET – Weather Forecasting Cooperation (E-WFC)

GeoSphere Austria (Coordinating Member)

Franziska Schmid

Manager

Scientist

software scientist

SRNWP-EPS module

DWD- Coordinating Member

Christoph Schraff
(ad-interim)

C-SRNWP module

vacant

(Job advertisement until 2 Apr)

AEMET – co-coordinator

Alfons Callado Pallares

vacant

ItAF-Met – co-coordinator

Francesca Marcucci

Marco di Giacomo,
Dario Cappelli (Geo-K)

PP module

RMIB

Coordinating Member

Stephane Vannitsem

Jonathan Demayer

E-NWC module

Franziska Schmid

Aitor Atencia

C-SRNWP 2024 – 2028: main objectives

AIM

cooperation between **limited area modeling consortia in Europe**

through

efficient **exchange of information** on **scientific, technical** and **operational** aspects of NWP

Focus on the new challenges

for the development of next generation forecasting systems

- high resolution and Digital Twins → link to applications and the end-users
- AI/ML based method → interaction with the traditional NWP approaches
- representation of uncertainties → with SRNWP-EPS

Cooperative effort and synergies with the other Modules

C-SRNWP 2024 – 2028: requirements

Req no.	Requirement description	Priority
C-SRNWP_1	Ensure efficient exchange of information between Participating Members and European LAM consortia in relation to scientific, technical and operational aspects of NWP.	M
C-SRNWP_2	Ensure the maintenance of resources (e.g. existing software) and development of new resources under the EUMETNET 'umbrella' to support the NWP community, e.g. in data assimilation (DA) and parametrization.	M

- EWGLAM/SRNWP annual workshop
- Expert Teams of selected topics
- SRNWP website
- Contact with the OBS programmes → A. Cress, DWD
- Short Term Scientific Missions → E-WFC
- Inform about other conferences / projects
- Follow the DestinE project
- Organise thematic workshops (hectometric WS 2024)

C-SRNWP_1 (exchange of information): activities

- discussion (during EWGLAM 2024) on role and structure of C-SRNWP **Expert Teams**
 - ETs are still needed
 - it is proposed to initiate transversal projects / working groups to collaborate on “hot topics” (e.g. hectometric scale modeling), involving more young scientists
 - AI: more collaboration with E-AI
 - invite E-AI representative to report on EWGLAM meetings on a regular basis?

C-SRNWP_1 (exchange of information): EWGLAM Meeting 2025

- 22 – 25 Sept. 2025, kindly hosted by SMHI, in Norrköping, hybrid format
- Special topic: “Navigating the Future of High-Resolution NWP: Embracing AI, Sub-Kilometer Scales, and the Evolution of HPC”
- Mid-March: SMHI requested to set up web page & send invitation to directors
- plan: Deadline for submitting proposals for talks / posters **end of May 2025**
to be decided: submitting proposal at registration on web site, or collection by ET Leaders
- (no travel funding any more for participants from C SRNWP Members States)

C-SRNWP_1 (exchange of information): other Meetings, WS

- EMS Annual Meeting 2025
 - 7 – 12 Sept. 2025 in Ljubljana, Slovenia; hybrid format
 - OSA1.2: Data Assimilation and Ensemble Forecasting (short, medium, extended range): traditional versus machine learning (Convener: Andrea Montani | Co-convener: Fernando Prates)
 - OSA1.4: Challenges in Weather and Climate Modelling: from model development via verification to operational perspectives (Conveners: Estíbaliz Gascón, Daniel Reinert | Co-conveners: Chiara Marsigli, Manfred Dorninger)
 - Abstract deadline: 14 April 2025
- envisaged, not confirmed (!): EPS workshop Oct./Nov. 2025 (Bologna?)

C-SRNWP_1: (very) new web site of EUMETNET: www.eumetnet.eu

The screenshot shows the EUMETNET website homepage. At the top, there is a navigation bar with the EUMETNET logo and links for ABOUT US, OBSERVATIONS, DATA ACCESS, FORECASTING & CLIMATE, SUPPORT TO MEMBERS, EXTERNAL PROJECTS, and NEWS. Below the navigation bar, the main heading reads "A network of 33 European National Meteorological & Hydrological Services (NMHSs)". A button labeled "About us" with a right-pointing arrow is positioned below the heading. The section "WHY EUMETNET?" features three key messages: "We are united through weather" (with a sun icon), "Sharing, we create synergies" (with a group of people icon), and "Collaborating, we are effective" (with an icon of two people shaking hands). Below this, the "Our areas of collaboration" section lists five categories: Observations, Data access, Forecasting & climate, Support to members, and External projects, each with a corresponding icon.

The screenshot shows a content page on the EUMETNET website. The navigation bar is identical to the homepage. The main heading is "Why do we need Short-Range Numerical Weather Prediction?". The text explains that SRNWP systems are crucial for providing accurate and timely forecasts essential for public safety, economic planning, and resource management. It also notes that SRNWP systems play an increasingly important role in community preparedness and response, particularly in regions with limited ground-based weather stations. Below this, the section "How does EUMETNET contribute to the coordination of Short-Range NWP?" describes the C-SRNWP module's role in facilitating communication between NMHSs and modelling consortia. It highlights the module's focus on harmonizing activities, ensuring efficient investment, and addressing challenges like high-resolution modelling and ensemble methods. The "Who's leading this EUMETNET activity?" section identifies the module as coordinated by the National Meteorological Service of Germany (DWD), with Christoph Schraff as the module manager and his contact information provided.

C-SRNWP_1: new web site of C-SRNWP: www.srnwp.eu

The screenshot displays the EUMETNET website for C-SRNWP. The header includes the EUMETNET logo and the text "COORDINATION ON SHORT RANGE NUMERICAL WEATHER PREDICTION". The main content area is organized into a grid of sections:

- about us**: Purpose & participants. Text: "the purpose of C-SRNWP, a programme of EUMETNET, is to help communication between European national meteorological and hydrological services and consortia, involved in short-range numerical weather prediction. It strives to coordinate and harmonize their activities and plans for their best".
- our friends**: European NWP consortia. Text: "European Met services have formed consortia for cooperative development of numerical weather prediction. Each consortium advances its own model for the operational and research needs of its members. See:
 - their models and working".
- meetings**: Annual meetings. Text: "Every year C-SRNWP organizes its annual meeting (in parallel with EWGLAM's). The most recent was at Prague (30 Sep-3 Oct 2024). You can see all **past meetings** and the presentations given by their participants."
- reporting**: Annual Reports. Text: "The SRNWP Programme started the first of January 2000. Since then, the active project manager publishes at the end of each year, publishes the annual report which summarizes the activities and conclusions during the past 12 months. Here is a list of these reports (and the project managers who issued)".
- for us**: Teams & Workshops. Text: "Expert Teams (ET) have formed, with specialized focus. See our ETs **description**. Other than the annual meeting, **workshops** have been taking place since 1999."
- for YOU**: Public projects. Text: "Currently, there is only one public project, the **free observations** that provides the measurements from some high quality European sites. For some of these, their observations span more than a decade."

A blue callout box at the bottom of the grid contains the text "→ needs to be updated".

At the bottom of the page, there are two navigation links: "programme managed by the German metService (since 2024)" and "site designed and hosted by the Greek metService (since 2024)".

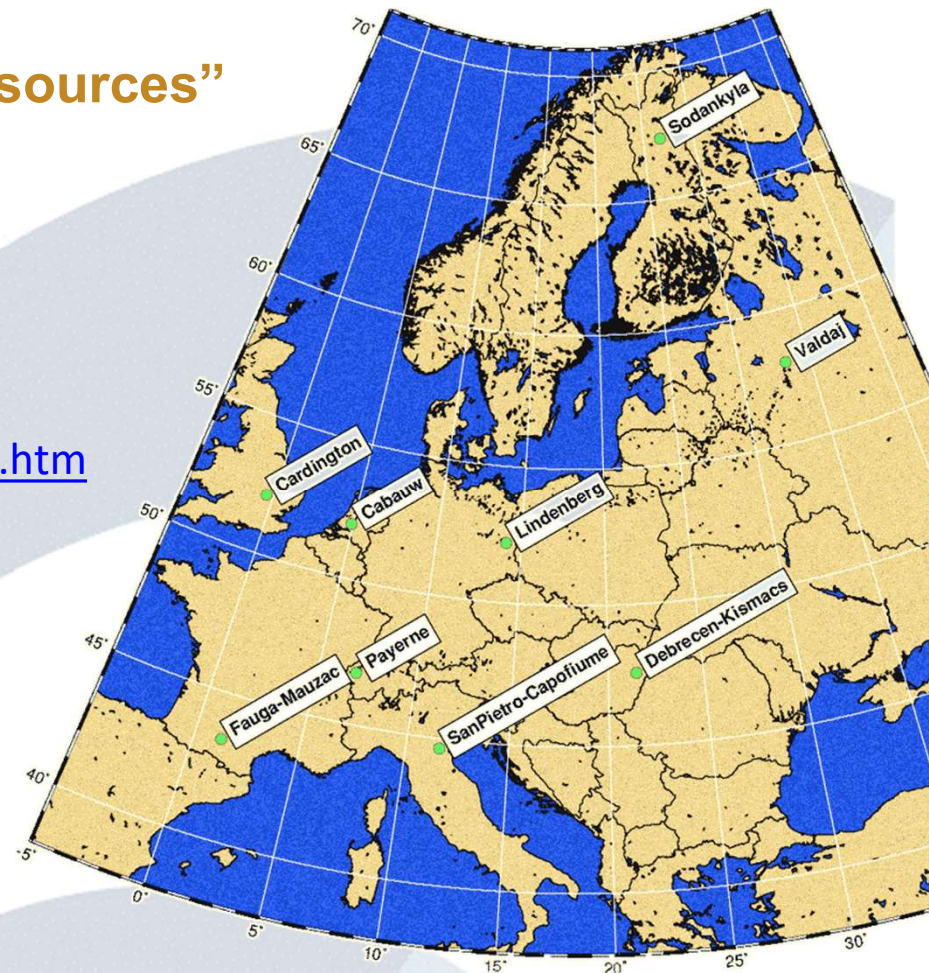
C-SRNWP_2: maintaining + developing “ressources”

- EUMETNET funding for ‘infrastructure costs’ in C-SRNWP (8500 € / y)
 - Maintenance + development of **Global Lake Data Base (GLDB)**: coordinated by FMI (Ekaterina Kurzeneva), work done in previous years by Georgy Kurzenev (RU), not possible any more
 - ML-based development of **decametric (60m) land cover physiography** with **ESA CCI land cover labels**, at FMI, with EUMETNET funding (‘infrastructure costs’ of C-SRNWP) from 2024 onwards

C-SRNWP_2: maintaining + developing “ressources”

- SRNWP Data Pool

- freely available for SRNWP Members and for academic institutes for research purposes
- <https://www.srnwp.eu/content/observations/default.htm>
 - data available upon registration
- in-kind contribution from DWD (collecting the data) and HNMS (web-site)
- very little used (exp. by C-SRWNP members)
 - therefore no resources devoted to add new data any more for several years
 - will eventually die (?)



Related to C-SRNWP: SRNWP-EPS

- co-organization & participation to **ENWFC** (Europ. NWC & Wea. Fcst. Conf.), Oslo, 4 – 7 Nov. 2024
→ parallel session on Ensemble to discuss the activities of the current phase
- development of **tools**:
 - develop ensemble machine learning applications for High Impact Weather (→ Europ. Wea. Cloud; by ItAF)
 - develop a tool for calibration (AEMET: postponed until person is hired)
- maintenance of the **LAM-EPS ensemble database** in the ECMWF archive (AEMET)
- **survey** on high-res. EPS products for high-impact weather forecasting, being prepared (for bench forecasters)
→ develop tools for calibration of LAM EPS for forecasting extremes
- LAM-EPS Forecasting Guidelines (AEMET: postponed until person is hired)

Related to C-SRNWP: Short-Term Scientific Missions

- E-WFC Management Team now handles call + selection process (not C-SRNWP any more)
- guidelines introduced (to be reviewed by ENM STAC next week)
 - applicant: young, < 5 years in his position, in E-WFC NHMS or collaborating university
 - content: specific and well-defined piece of work related to E-WFC (NWC, seamless fcst, PP, SRNWP (-EPS)), e.g.: improve **SRNWP (high-resolution NWP for urban + extreme weather; DA)**, SRNWP-EPS, AI, improve NWC with MTG Lightning data or with ML, PP, user-oriented aspects of forecasting, ...
- selection criteria: fit to above topics, collaborative work between ≥ 2 E-WFC NMHS / related academia, benefit for whole E-WFC community
- budget: 3 STSM per year, 2000.- € per STSM (exceeding budget should be covered by applicant's institution)
- duration: at least $\sim 1 - 4$ weeks
- report: work done, achievements, future plans (template provided)
- **deadline** for proposals (using revised application form): for 2025 by **15 May 2025**, for 2026 + X by 30 Sept. 2025 + X
STAC will review & "disseminate the revised document amongst interested parties"
email address (E-WFC management team) to send proposals to has yet to be created

thank you for your attention



CONTACT DETAILS

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