

Status of the EUMETNET C-SRNWP project

Balázs Szintai

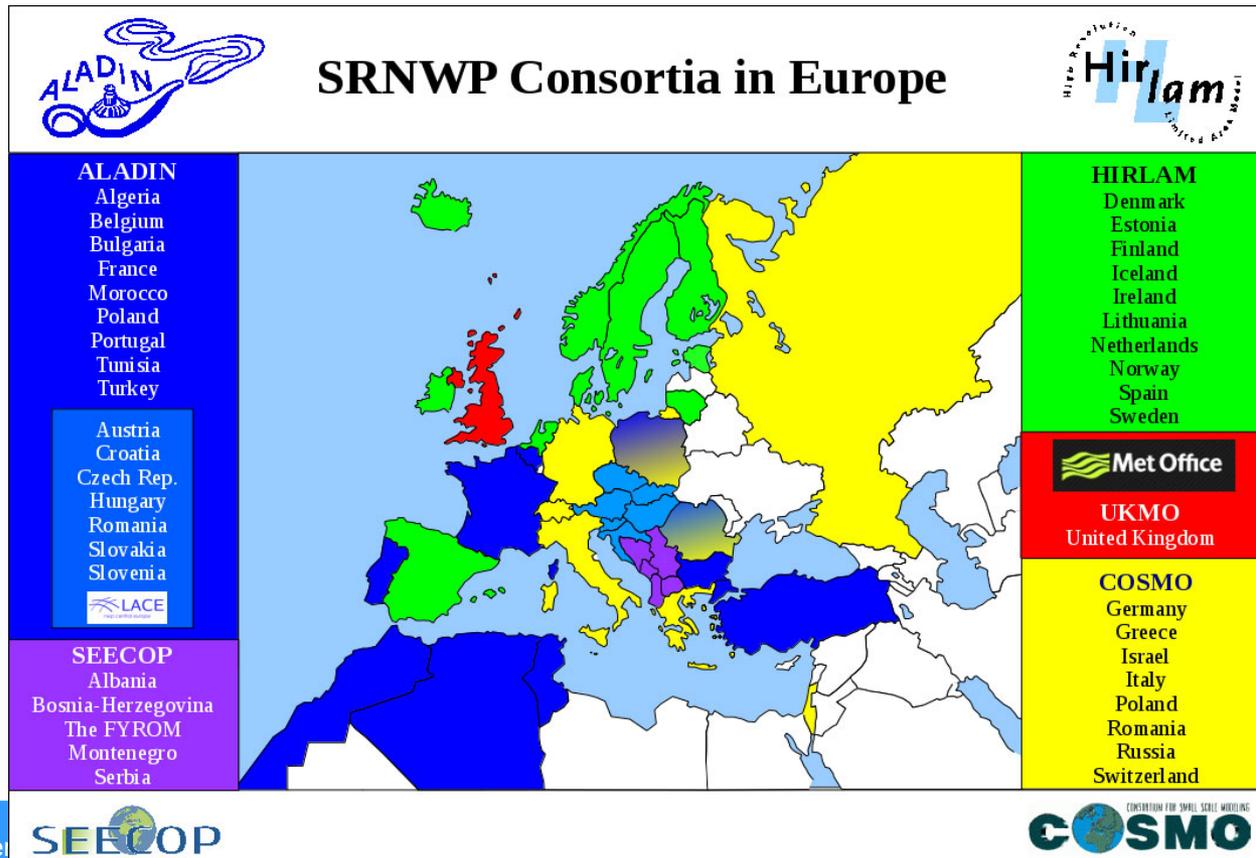
with inputs from many of you...

Outline

- EUCOS support
- AMDAR issues
- SRNWP data pool
- Global Lake Database
- SEECOP
- C-SRNWP Expert Teams
- EWGLAM-2017
- Future of C-SRNWP

C-SRNWP Programme of EUMETNET

- Coordination of Short Range Numerical Weather Prediction in Europe
- 27 Member States
- Current phase: 2013-2018
- Yearly budget of 35.000 EUR (0.3 FTE + 5000 EUR travel)
- Coordinating Member: Hungary, OMSZ



C-SRNWP highlights

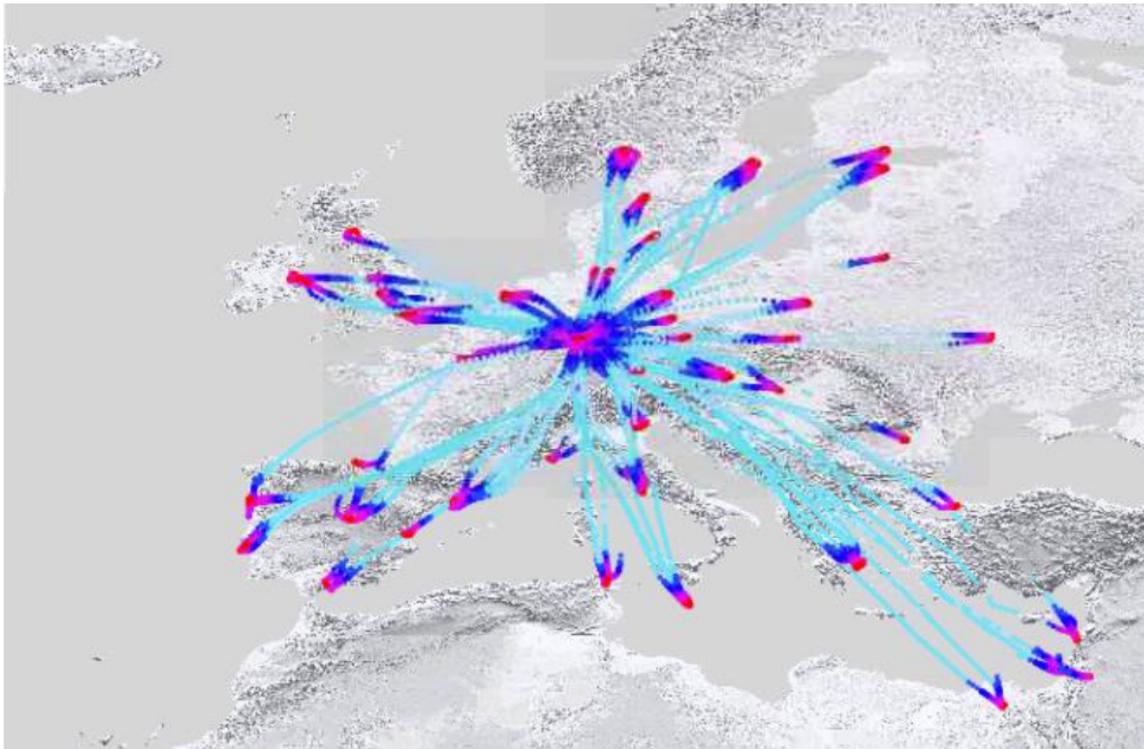
Observation network design (support EUCOS, Obs-SET)

- Collect DFS (Degrees of Freedom For Signal) and FSO (Forecast Sensitivity to Observations) observation impact indicators from the SRNWP community
→ this provides useful complementary information to Observing System Experiments
- The above is important in order to have an influence on the priority of EUCOS observation programmes/projects from an SRNWP perspective
- Obs-SET meeting: April 2017

C-SRNWP highlights

Observation network design: AMDAR-humidity

- 2015: eight Lufthansa flights equipped with humidity sensor



WVSS-II destinations over 14 day period, Dec'15

C-SRNWP highlights

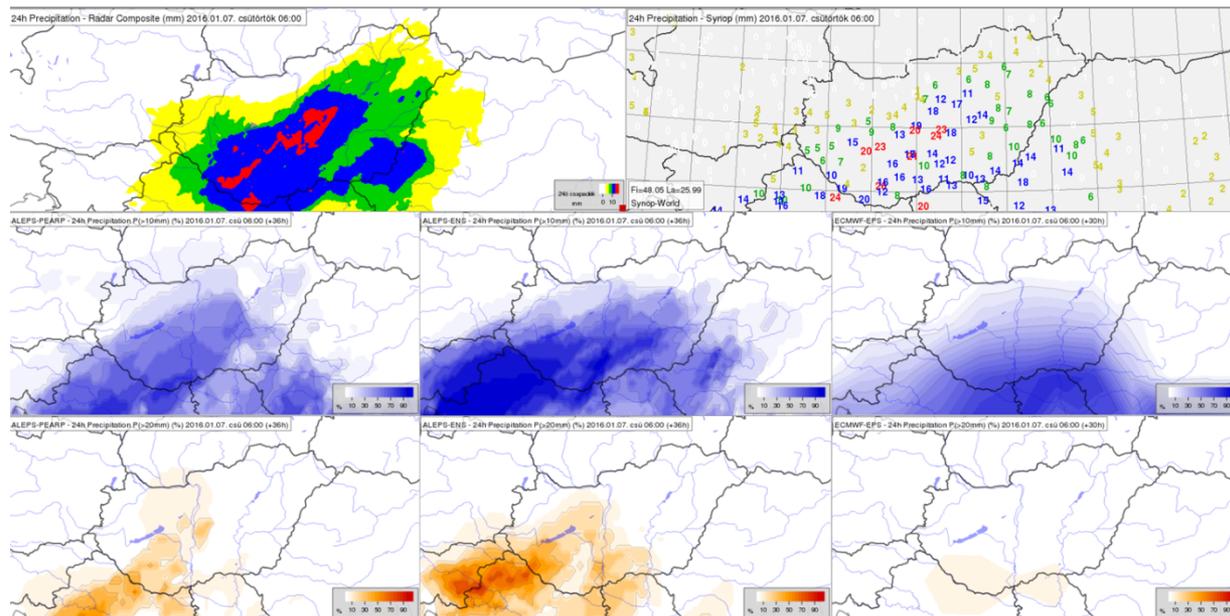
Observation network design: AMDAR timeliness requirements

- The Timeliness Performance target for E-AMDAR in HH+15 in 80% is not possible at the moment. If we want to have the data earlier, we should concentrate on DESC data. Currently ASC profiles are preferred to DESC profiles.
- Timeliness Performance target for E-AMDAR is important for high resolution NWP with low cut-off times → DESC profiles are preferred
- Gereal Forecasting applications → „vertical” profiles are preferred → ASC profiles
- Discussion will continue at Obs-SET Meeting: end of April 2017

C-SRNWP highlights

ECMWF ENS LBCs to drive high resolution LAM EPS

- Real time test data (3h output until 5.75 forecast range, no archiving) is available since summer 2015
- With new IFS cycle in November 2016: hourly output, ~2 weeks rolling archive
- Several countries already started to test the data

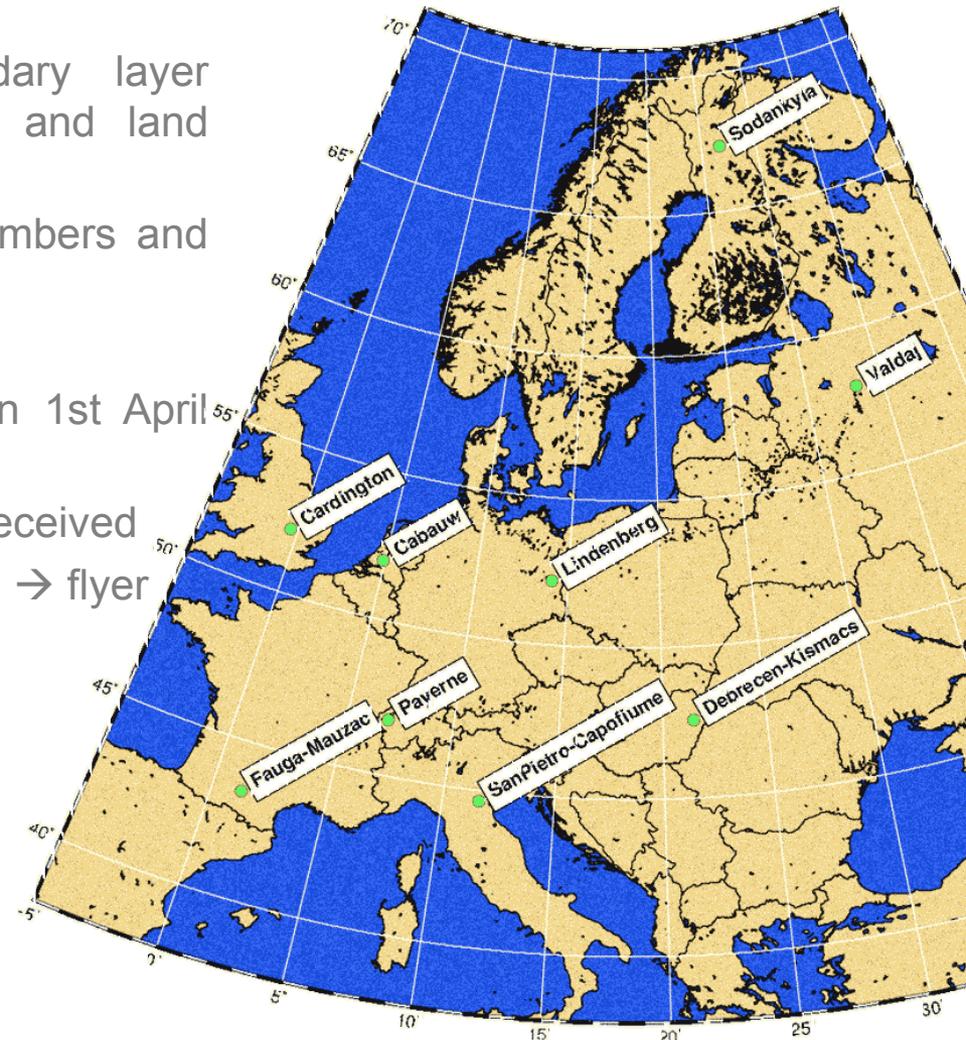


Mihály Szűcs, OMSZ

C-SRNWP highlights

SRNWP data pool

- Database of surface and boundary layer observations → validation of PBL and land surface models
- Freely available for EUMETNET Members and collaborating universities
- Relatively low usage
- Questionnaire prepared and sent on 1st April 2016 to 39 registered users
- Until 15th May 2016 only 3 answers received
- More advertisement would be needed → flyer



C-SRNWP highlights

Global Lake Database

- EUMETNET STAC, 30 March 2016:
 - Lake Database funding proposal presented by C-SRNWP PM
 - 8500 EUR/year (for maint. and devel.): included in the C-SRNWP budget
 - STAC agreed → details of funding by PFAC
 - PFAC: GLDB funding should be included in the Forecasting Programme Management budget (all countries represented)
- October 2016: STAC agreed in principal that the IPR for the Global Lake Data Base resides with all organizations and individuals who contributed to the development of GLDB
- March 2017: STAC agreed to implement the Creative Commons license for GLDB

C-SRNWP highlights

SEECOP

- South East European Consortium for Operational weather Prediction
- 5 South East European countries: Albania, Bosnia-Herzegovina, Macedonia, Montenegro, Serbia
- Using NMMB (WRF) model
- Wanted to be recognised as new NWP consortium in Europe
- EUMETNET STAC, Nov 2015: recognized SEECOP as new NWP consortium → with list of recommendations from AET
- Second meeting of SEECOP experts: 27 June 2016, Bar, Montenegro → decisions on the organizational structure of SEECOP (Council, CET, WGs)

C-SRNWP Expert Teams

8 C-SRNWP Expert Teams

- Data Assimilation (chair: Bruce Macpherson)
 - **Diagnostics, validation and verification**
 - **Dynamics and lateral boundary coupling**
 - Link with applications (chair: Jeanette Onvlee)
 - **Physical parameterisation (upper air)**
 - Predictability and EPS (chair: Chiara Marsigli)
 - Surface and soil processes (chair: Patrick Samuelsson)
 - **System aspects**
-
- Surface ET: „revival” meeting held on 3rd October 2016

C-SRNWP highlights

EWGLAM/SRNWP Annual Meeting

- 2-5 October 2017, ECMWF, Reading, United Kingdom
- Special topic: convection
- ~ 90 participants
- Programme is getting very busy → Tuesday afternoon: parallel sessions, side meetings
- Hopefully starting next year: EUMETNET funding (~6000 EUR)

C-SRNWP highlights

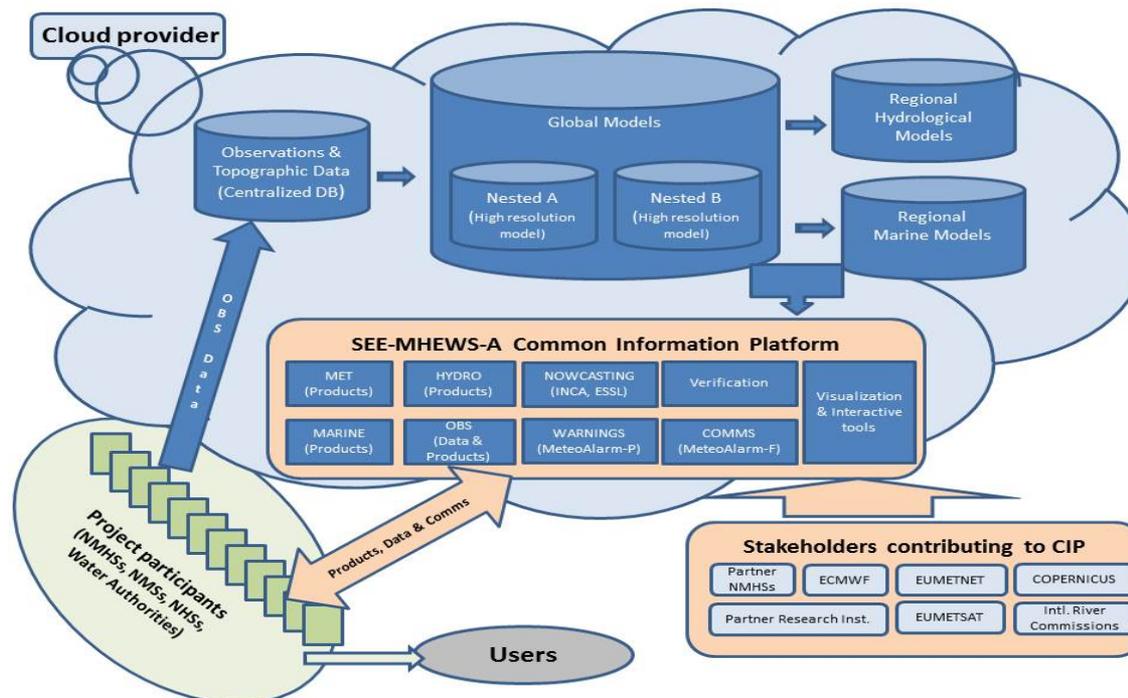
Project website

- Model table updated at the end of September 2016
- 17 updates received
- 59 deterministic LAMs
- 12 LAM ensemble systems

srnwp.met.hu/C_SRNWP_project/Eumetnet_List.html

SEE-MHEWS-A Project

- South East European Multi-Hazard Early Warning Advisory System
- WMO project partly funded by USAID
- Involvement of C-SRNWP PM and potentially some ETs (as advisors)
- 8-9 March 2017, Budapest: Numerical Modelling Workshop



Future of C-SRNWP

- **All EUMETNET Programmes** prolonged with one year (until end of 2018)
- **C-SRNWP scenarios for next EUMETNET phase (2019-2023)**
 1. **Status quo:** more or less the same coordination tasks would be performed as during the current phase
 2. **Some additional activities** could be included. This would involve additional budget for the program:
 - Involvement in impact studies (some are part of the Obs. Programme now)
 - Short Term Scientific Missions (COST concept)
 - Support for meeting participation (particularly applicable for low GNI countries)
 - **Additional items** from the list of ideas generated by the ESIG working group of directors.
 1. common libraries/verification (shortly discussed at the latest EWGLAM, the conclusion being that success is strongly dependent from the common benefits that can be achieved)
 2. Weather & climate services production system for delivery to end users, also C-SRNWP related
- 1. March 2017: STAC/PFAC recommended Scenario-2 for Assembly

Thank you for your attention!

Balázs Szintai
C-SRNWP Project Manager
GIE/EIG EUMETNET

C-SRNWP Project Manager
Hungarian Meteorological Service
Kitaibel Pál u. 1
Budapest, Hungary

Tel: + 36 1 3464705
Fax: + 36 1 3464669
Email: szintai.b@met.hu
Web: srnwp.met.hu

GIE EUMETNET Secretariat
c/o L'Institut Royal Météorologique
de Belgique
Avenue Circulaire 3
1180 Bruxelles, Belgique

Tel: +32 (0)2 373 05 18
Fax: +32 (0)2 890 98 58
Email: info@eumetnet.eu
Web: www.eumetnet.eu