

Report on SEECOP Activities

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SEECOP

- SEECOP: South East European European Consortium for Operational weather Prediction
- Consortium model: NCEP/NMM
- SEECOP Consortium Member Countries:
 - Albania
 - Federation of Bosnia and Herzegovina
 - Republic of Srpska (Bosnia and Herzegovina)
 - North Macedonia
 - Montenegro
 - Serbia

Members with pending Agreement signatures:

- Belarus
- Cyprus
- Moldova

Observers:

- Turkey
- Greece
- Israel





□ Ukraine joined SEECOP

□ Belarus – pending for signing the SEECOP Agreement

□Cyprus -a new SEECOP member (still pending for signing the SEECOP Agreement)

□ Observers

- ➤ Greece
- > Cyprus
- Moldova
- ➤ Israel





SEECOP management

- Consortium Council (CC)
 - Composed of the Members' Directors
 - Reguar anuual
- Coordination Experts Team (CET)
 - operation plans
- Working Group subjects (WGs)
 - Data assimilation
 - Applications
 - System aspects (code management)
 - Diagnostic, validation and verification





Principles of Consortium cooperation

- **sharing resources** (expertise, data, modelling)
- reducing overlaps with other Members in NWP
- training
- open for cooperation with other consortia
- open for new memberships, not necessarily belonging to SEE region
- **self-funding**, searching for external funding
- model code repository with the basic and developed programs
- **research** and **appications** focused on operational needs

Consortium resources

- Travel/meeting costs: covered by participants
- Occasionally: some external support (CEI, WMO)
- In case of RHMSS, in-kind contributions:
 - Dissemination of model products
 - Workshop organization
 - Hosting annua meetings

SEECOP questionnaire

- A questionnaire on
- NWP activities and experiences of consortium members
- Selection of extreme weather cases for model vaidation

https://docs.google.com/forms/d/e/1FA IpQLSfrnD6DV07UAOxH4Q262nvtveL7qZ LKreQPjLZq_j5qhgSA_Q/viewform?vc=0 &c=0&w=1



SEECOP NMM model training workshop

- 1 week training performed
- On-line exercises
- Input data; preprocessing; model; postprocessing
- Procedures for launching the model
- Written manual
- Zipped model software for participants

NWP products for SEECOP dissemination



SEECOP NMMB global model

- Global domain
- Horizontal res 0.48 x 0.36 degrees
- Vertical res 64 levels
- 10 days forecast
- Initial conditions from GFS
- daily dissemiantion through a dedicated server
- access: a web page link



SEECOP PLANS

SEECOP Earth Model System (EMS) concept

NMM used as an atmospheric driver of other Earth systems:

atmosphere, aerosol, hydrology, ocean, etc





Nickovic et al, 2016, Atmos. Chem. Phys., 16, 11367–11378

Ongoing project

Mineral Aerosol Impacts to Sub-seasonal to Seasonal Predictability

Global NMMB-DREAM (dust) model has been developed



Left: predict ice nuclei due to dust Right: MSG SEVIRI ice water path

