



Foreign, Commonwealth  
& Development Office

# SOUTH ASIA HYDROMET FORUM III

**REGIONAL PARTNERSHIPS FOR IMPROVED WEATHER AND CLIMATE SERVICES**

**South Eastern European Multi-Hazard Early Warning Advisory System – SEE-MHEWS-A**

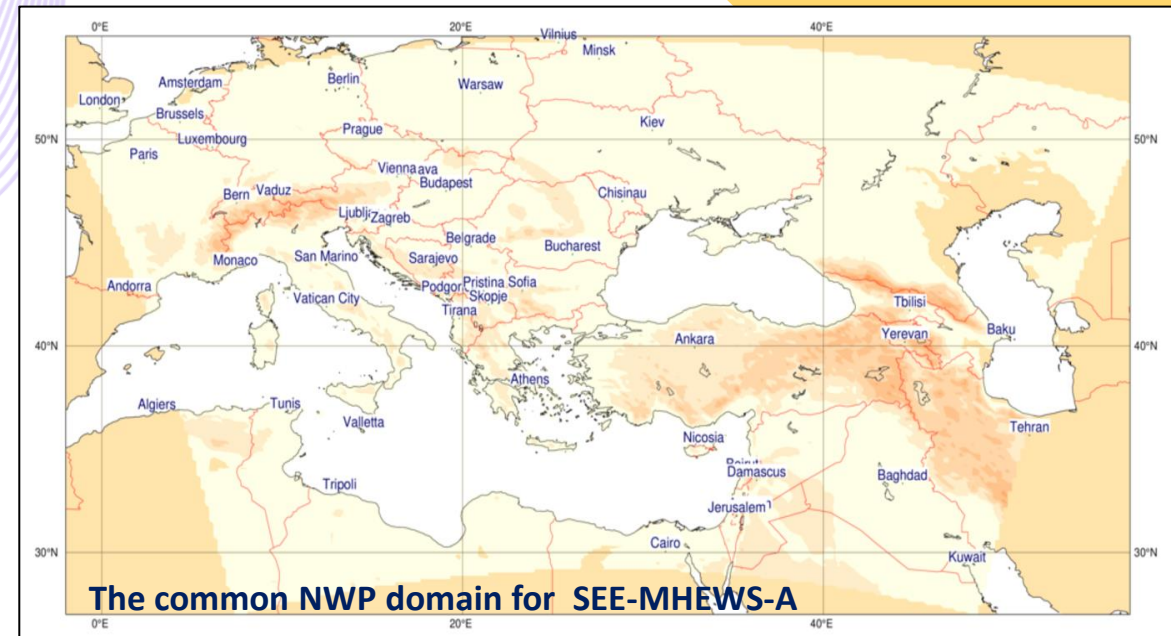
**Kornélia Radics  
Hungarian Meteorological Service**

**November 15-18, 2021  
Annual Event- Virtual**

# SEE-MHEWS-A

- SEE: has experienced a significant number of severe meteorological and hydrological hazardous events → total estimated losses over the last 20 years: US\$ 20 billion
- NMHSs are facing challenges with securing adequate financial and human resources
- Through international cooperation: achieve better quality of weather and water related information, forecasts, warnings and advisories

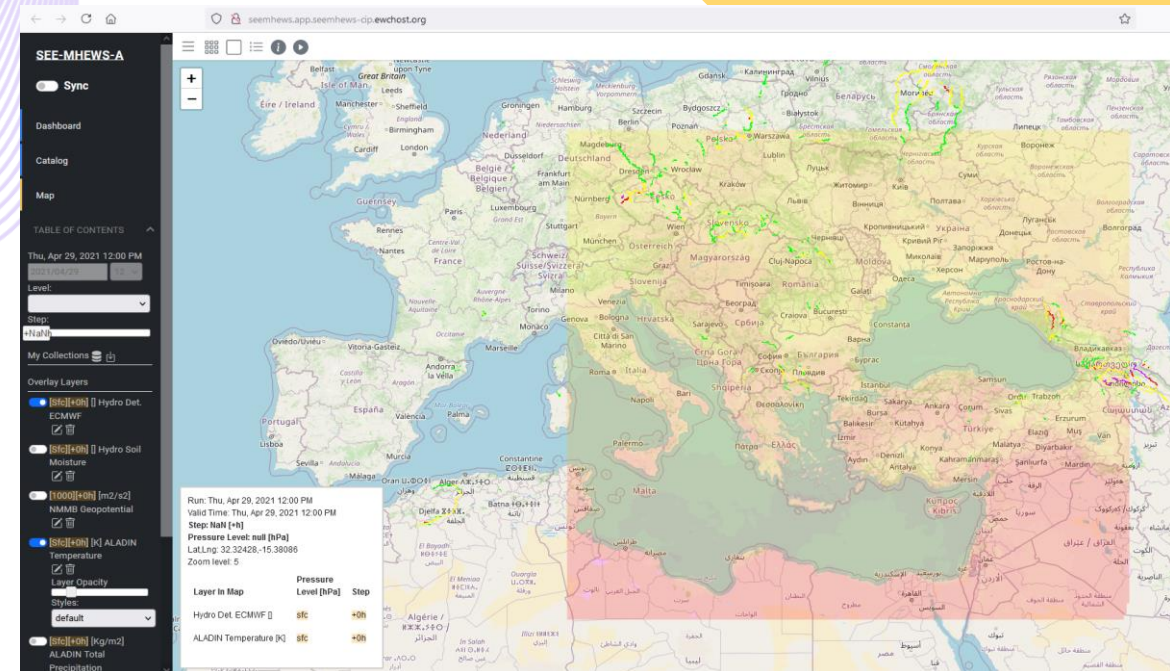
# WHY SOUTH-EAST EUROPE?



# SEE-MHEWS-A

- Increase the horizontal spacing and timely availability, especially in the mountains
- Improve technical level of **data acquisition**
- Technical and training assistance for **calibration and maintenance**
- Introduce or improve the **data quality control** methods
- Keeping records on more detailed **metadata**
- Apply improved pre-processing of data

# IMPORTANCE



# SEE-MHEWS-A

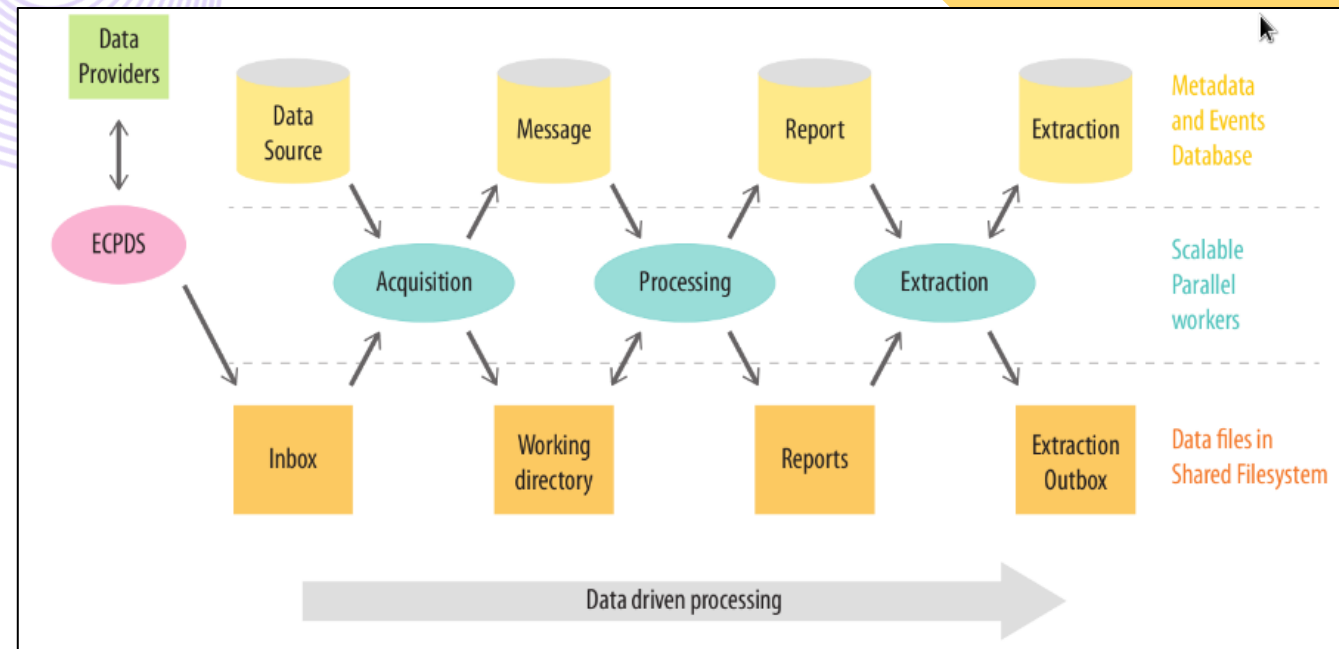
ECMWF operational system for observations since 2014

Delivers BUFR data to data assimilation

Key features:

- scalability – to cope with increasing data volume
- metadata and events stored on relational database
- data driven workflow
- WEB based administration tools
- SQL based monitoring

# SAPP SYSTEM



# SEE-MHEWS-A

# DATA POLICY AGREEMENT

Signatories from 16 countries

Acquire **additional** observations (not available on the GTS)

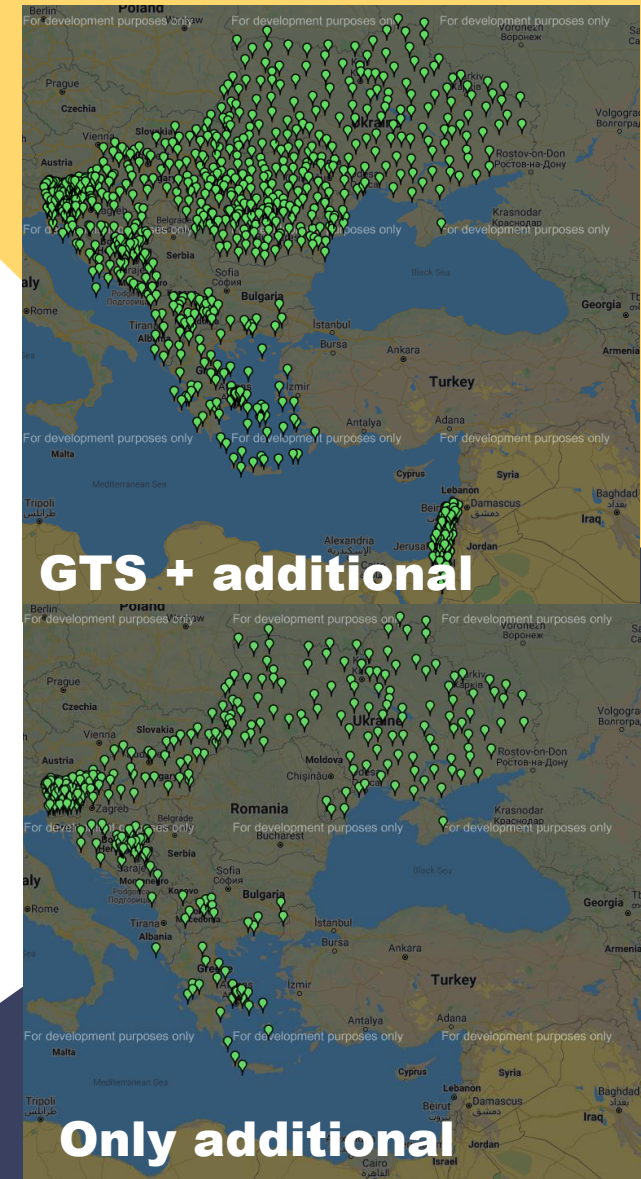
- Higher reporting frequency
- New stations

→ **Data assimilation** for NWP and nowcasting, and **Verification**

Implementation phase: surface observation data

Project phase: more observation types (radar, GPS based observations, etc.)

→ **Collect as much additional data as possible**





SOUTH ASIA

**HYDROMET FORUM III**

**2021**

**PROGRAM TO SUPPORT SOUTH ASIA REGIONAL DEVELOPMENT IN  
OPERATIONAL FORECASTING AND SERVICE DELIVERY**

**SAHF Website:** <https://sahf3event.rimes.int/>

**YouTube Broadcast:**  
<https://youtu.be/QAAf326wP00>