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[www.met.hu](http://www.met.hu)

**General introduction of the organisation:** The OMSZ-HMS is under the supervision of the Ministry of Environment and Water. It is responsible for all the meteorological activities: release of weather reports and forecasts, maintenance of datasets and measurement networks related to the atmospheric environment.

**Importance of the SDI from the organisation' viewpoint:** The activity of the OMSZ-HMS is based on the meteorological dataset archives and those updated continuously throughout its own network as well as through the international WMO data exchange facility (GTS).

**Role of the organisation in the NSDI:** Data supply to international partners and to flood/civil protection/aviation authorities. Maintenance and data management related to the Hungarian climatological database and meteorological/forecast fields. Ensuring extended data availability to duty forecasters.

**Mandated responsibilities related to the EU INSPIRE Annex I-III data:**

- Annex III/5. air pollution, chemicals, ozone layer
- Annex III/7. location and operation of environmental monitoring facilities
- Annex III/12. vulnerable areas characterization
- Annex III/13. atmospheric conditions
- Annex III/14. meteorological features

**Participation in the Hungarian SDI development with flashback:**

- representation of Hungary in the COST 719
- organization of the First Conference on Spatial Interpolation in Climatology and Meteorology
- participation in the flood monitoring over the river Tisza NATO project in collaboration with Romania
- ICPDR participation: Committee for the river Danube
- Regional activity in GCOS
- CIRCLE project in FP6: harmonization of possible impacts of climate change
- REMO and ALADIN Climate model adaptations for Hungary
- participation in the operation of the European Meteoalarm system

**Ongoing major activities in the development /use of SDI:** International projects for database development (see below). Modernization of archiving systems. Web-service/interface development.

**Major international relations:** Member of ECMWF, EUMETSAT, WMO. ALADIN/LACE project with central-European countries. Bilateral agreement on radar data exchange with Romania. EUMETNET membership. EMEP (European Monitoring and Evaluation Programme).

**Collaboration on international (including cross-border) projects in the SDI context:** OPERA (Operational Programme for the Exchange of weather RADar information) cooperation. Hydrology SAF (EUMETSAT Satellite Application Facility in Support to Operational Hydrology and Water Management). CECILIA project in climate modelling.

**Real/Expected use of SDI as enabling tool in the context of**

**Climate Change:** management of meteorological databases required for climate modelling; maintenance of climatological database

**National Sustainable Development:** archiving atmospheric pollution/composition records; generation of wind/solar radiation maps in support of renewable energy use

**Information Society:** data provision for Meteoalarm system and for other public web services