

Regional Association VI, Forum Hydrology, Koblenz May 8 – 10, 2012

Statements of the national hydrological service of Turkey

State Hydraulic Works of Turkey

• The General Directorate of State Hydraulic Works (DSi), is a legal entity included in general budget, and is the primary executive state agency responsible for planning, management, development, and operation of the nation's overall water resources. DSi works under the aegis of the Ministry of Water and Forestry.

LAWS CONCERNING DSI



• Law No. 6200 on DSİ's Establishment:

Enacted on 18th December 1953

Law No. 167 on Groundwater:

Enacted on 16th December 1960

 Law No. 1053 on Domestic and Industrial Water Supply to Ankara, Istanbul and Cities with Populations over 100,000:

Enacted on: 3rd July 1968



Organization, role and main tasks

- To enhance irrigated agriculture,
- To generate hydroelectric energy,
- To supply water to large cities for domestic and industrial use,
- To take measures against floods, and
- To operate hydrometeorological network.

Users

- Engineering companies
- Policy Makers
- Researchers



HYDROMETEOROLOGIC NETWORK



Flow Measurement Stations

Lake Level Stations

Groundwater Level Monitoring Stations

Meteorology Stations
DSi TMS

Sediment Measurement Stations

Snow Measurement Stations
DSi TMS

Groundwater Quality Monitoring Stations

Surface Water Quality Monitoring Stations





HYDROMETEOROLOGICAL NETWORK



Biggest success



- Water Database Project (SVT) was successfully realized in 2009. All water data are evaluated, organized, published and disseminated by SVT data base. It works on internet and every remote user may add, report or evaluate data limited with his/her authorization.
- All technical personnel has an online accessibility to hydrometeorological data.



Biggest failure

- The qualified personnel for hydrometeorological data collection and management are retiring day by day. Because of the financial policy, it is not possible to appoint new staff.
- As we all aware, technical experience of hydrographers are very important to have accurate measurements. Their retirement is lessening our institutional experience capacity.

Expectations



- New institutional structure for hydrometeorologic data management (national level),
- Enhancing awareness for hydrologic data with conferences, workshops. (international level),
- Determining standards for new measurement techniques.



Turkish Meteorological Service

 Turkish Meterological Service (TMS), was founded in 1937. It is the only legal organization which provides all meteorological services in Turkey. TMS currently works under the Ministry of Water and Forestry.



Organization, role and main tasks

- To make observations (climatological, synoptic, aviation),
- To provide forecasts and warnings (medium and short range, nowcasting etc),
- To provide meteorological services to different sectors,
- To provide meteorological services to Military,
- To operate meteorological network,
- To make Flash Flood Early Warnings.



Biggest success

- Expansion of AWOS stations countrywide,
- Expansion of RADAR network,
- Establishment of Calibration Center,
- Reorganization of Meteorological Service,
- Regional Center for Flash Flood Guidance of BSME countries
- Conclusion of flood forecasting and early warning feasibility study,
- More cooperation with regional countries.



Biggest failure

 Elevations are very different in Turkey. Hydro-meteorological data collection stations has not been established sufficiently to represent high elevations.

In addition, three institutions in Turkey have been working in hydrology. There is no perfect cooperation among them.



Expectations

- Expansion of Meteorological Network (TMS done feasibility studies),
- Establishment of River Flood Forecasting System,
- Establishment of inundation, hazards, and risk maps for major rivers,
- Determining standarts for new measurement techniques
- Enhancing awareness for hydrologic forecasting with conferences, workshops. (international level),
- Carrying out more research on hydrology and meteorology.





THANK YOU VERY MUCH FOR YOUR INTEREST

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