



World Meteorological Organization
Working together in weather, climate and water

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Statements of the national hydrological service of Finland

Organization, role and main tasks

- Finnish NHS is hosted by the Finnish Environment Institute (SYKE); SYKE is the leading freshwater institute
- Hydrological Services are supervised by two Ministries: Environment; Agriculture & Forestry
- NHS operates national basic surface and ground water monitoring programme: 10 sub-networks and 1,300 measuring sites; 60% owned by NHS, 40% by others
- This is a multi-objective monitoring programme : basic water resources information, operational use, flood and drought management, long-term variability and trends, water quality and ecology, ...

Biggest success

- A set of highly successful, operational data systems have been developed for the use of hydrological monitoring data:
 - Control room software for data quality control
 - Modelling, forecasting and warning system
 - Software for data analyses
 - Extensive, real-time water resources web service
- Very good feedback received from administration, industry and the public makes us happy!

Biggest failure

- NHS has been able to gain remarkable savings by installing automatic field stations and developing related data processing
- Currently we operate some 300 own automatic stations – most of them for surface water level and river discharge
- Yet we have very modest resources for developing and operating the modern field infrastructure: only a small part of the profit has been used for the benefit of the new system

Expectations

- Our main expectations :
 - At the national level we hope that large reorganizations that aim at budget savings will still assure adequate hydrological ground monitoring system; the future model should be integrated ground-remote-modelling system
 - At international level we hope that NMHSs will develop their networking within WMO and the WMO-NMHS family will grow a strong actor and force at policy, operational and scientific levels