OPERATIONAL SETUP

ABSTRACT

The objective of this deliverable was on the operationalisation of the E-HYPE river runoff model. The purpose of OPERR, is to make available and deliver both hindcast data and forecast data for river runoff and nutrients at the entrance to the sea. A sustainable system which can deliver requested products at a 24 hour/7 days service is a key element in an operational service. To maintain the downstream service with satisfactory quality, feedback of on-going assessment of the products and services by users is of fundamental importance. Further, data should be easily accessible and in standard format.

A large number of variables can be delivered with up to 10 day forecasts. Besides the local and total discharge, snow, evaporation, phosphorus and nitrogen concentration and its transport can be part of the output. Nutrient concentrations are available for the Baltic Sea sub-basin but will be included in the full E-HYPE in summer 2012.

The result files can be delivered in a number of ascii-formats and it is possible to respond to different standards of formats. It will also be possible to deliver forecasts in the netcdf binary format, which is commonly used in oceanography. The forecast data can be accessed from a password protected ftp-server but accessible on request.

Future possibilities that can be mentioned are regular validation of model results in comparison with time series of European observations. Seasonal atmospheric forecasts can be used for risk of droughts.