

5-day Training program
on
HYDROLOGICAL MODELING USING QSWAT
(June 10 – 14, 2024)

Organized by



**NORTH EASTERN REGIONAL CENTRE
NATIONAL INSTITUTE OF HYDROLOGY**

**Sapta Shahid Path, Dispur, Guwahati- 781006
(Assam), India**

ABOUT THE COURSE

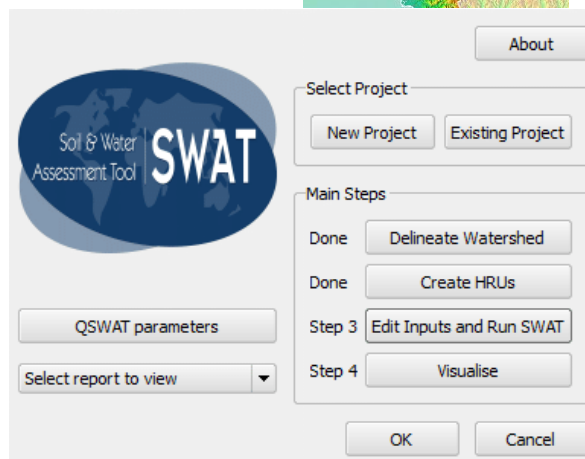
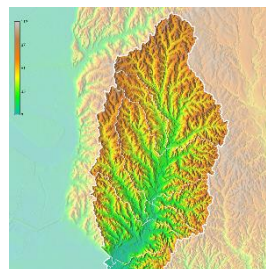
This training course focuses on hydrological modeling using the SWAT model, a semi-distributed hydrological model crucial for water resource management. SWAT predicts the impact of land management on water, sediment, and agricultural yields in large watersheds. The course utilizes QSWAT, a QGIS interface for SWAT, covering topics like database preparation, model setup, and advanced topics such as sensitivity analysis and uncertainty analysis using SWAT-CUP.

COURSE STRUCTURE

The training program will be conducted in physical mode and will consist of lectures and hands-on by experts in the field of hydrological modelling in particular. The participants will be introduced to various tools available to prepare input data for SWAT modelling. Also, the participants will be made aware of the hydro-meteorological data available in the public domain. Hands-on training will be given to the participants which include- preparation of spatial and temporal data; setup of a hydrological model using QSWAT; calibration, validation and uncertainty analyses in SWAT-CUP.

WHO CAN PARTICIPATE?

The training is intended for scientists, engineers, academicians and PG/Ph.D. students of various government organizations located in the north-eastern part of India who are actively working in water-related sectors.



ABOUT NIH-NERC

The North Eastern Regional Centre is one of the regional centres of National Institute of Hydrology located at Guwahati which serves the north-east states of India, and parts of West Bengal (Teesta basin). It was established in August 1988. As per the action plan, the centre is to work in thrust areas of research like flood estimation and routing; structural/non-structural measures for flood management; integrated watershed management for flood control; hydrological database management system; drainage congestion and erosion problems; water quality problems; socio-economic aspect of flood disaster; spring hydrology; and technology transfer.

The National Institute of Hydrology (NIH) is a premier Research and Development organization under the Department of Water Resources, River Development and Ganga Rejuvenation, Ministry of Jal Shakti, Government of India. It was established as an autonomous society in 1978 with its headquarters at Roorkee, Uttarakhand.

REGISTRATION

There is no registration fee for the participation. However, the candidate needs to be sponsored by their Institution.

The course material, high tea and working lunch for the session will be provided to the registered participants. **The participants will have to arrange for TA/DA and any other expenditure to participate in the course from their own organization/ institute.** A certificate will be given to all participants. **Also, the participants are encouraged to carry laptops for doing hands-on exercises during the course.**

It is intended to register only a limited number of participants (25) for this training program. The selection of participants will be done based on qualification, experience and area of interest of the candidates. The prospective participants are requested to register themselves by filling the registration form latest by 31st May 2024.

Registration Link: <https://forms.gle/YZYTT6C5MzdSQJgc9>

VENUE

The training will be conducted at the North Eastern Regional Centre, National Institute of Hydrology, Sapta Shahid Path, Dispur, Guwahati- 781006 (Assam), India.

COURSE COORDINATORS

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