



FREEWAT

Free and Open Source Software Tools for Water Resource Management
EU HORIZON 2020 Project

Training course

Water resource management with the FREEWAT platform integrated in QGIS

Within the project H2020 *FREEWAT (FREE and open source software tools for WATER resource management)*, the course "*Water resource management with the FREEWAT platform integrated in QGIS*" aims at presenting the modules integrated in FREEWAT, a free and open source simulation platform, integrated in QGIS, for water resource management.

Goals and teaching materials

Participants to this course will have the opportunity, through the completion of practical exercises, to acquire or strengthen skills in using QGIS, to acquire the theoretical concepts and become familiar with the modeling tools integrated in FREEWAT for: (i) simulating groundwater flow and the interaction with the surface water; (ii) managing hydrochemical and hydrogeological data; (iii) simulating solute transport and the joint use of surface water and groundwater for water resource management.

The following training material will be provided for free:

- the FREEWAT software;
- user manuals;
- theoretic lectures;
- tutorials and related data sets.

Course carrying out

The course is divided in two parts:

- the first part, 3 days long, will take place remotely and will be devoted to acquire the basics of numerical modeling for the simulation of groundwater flow and the interactions with surface water, and to get acquainted with software tools for management of hydrochemical and hydrogeological data. For this purpose, tutorials (including slides and data sets) will be provided. Participants will perform tutorials autonomously. Technical support will be guaranteed via email, phone or skype;
- during the second part, two days long, lectures will be delivered to present FREEWAT modules for the simulation of solute transport processes, saltwater intrusion and the conjunctive use of ground- and surface-water for water resource management in rural environments.

The lectures will be delivered in Munich, at the premises of the Technical University of Munich, on June 29th - 30th.

Application procedure and further info

Participation to this course is free of charge. The number of seats for lectures is limited to 30.

Registration is mandatory. Please, send an email to Gabriele Chiogna (gabriele.chiogna@tum.de) providing the following information :

- Name and Surname;
- Affiliation.

At the end of the training you will receive a certificate of attendance.