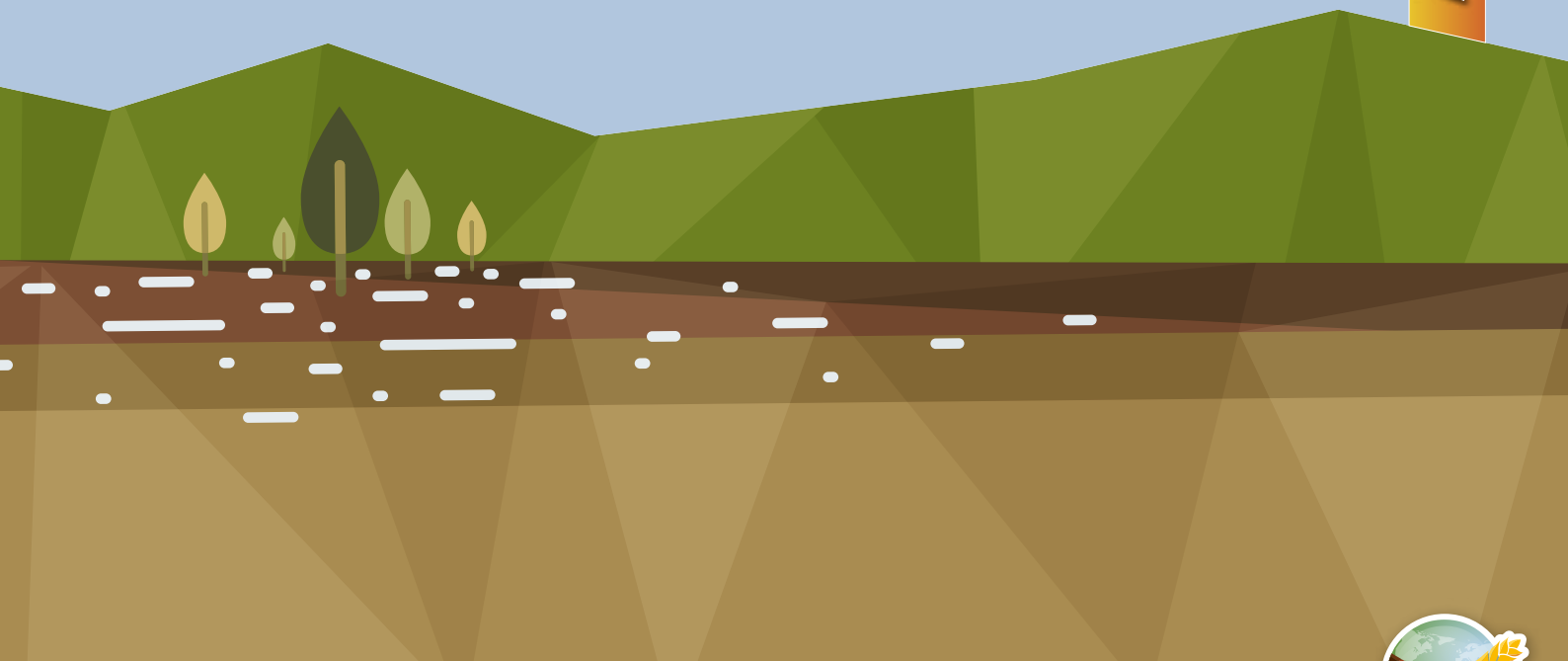
Food and Agriculture Organization of the United Nations

International Network of Salt-Affected Soils

The SALTMED model as an integrated management tool for water, crops, soil, salinity and N-fertilizers

11 March 2025
16:00 - 17:30 CET

Agenda



GSP Webinars

GLOBAL SOIL PARTNERSHIP

This event was designed to enhance your skills and building the capacities in modelling crop growth in the areas affected by salinity. The SALTMED model has been developed as an integrated model that can simulate soil moisture, salinity distribution, leaching requirements, nitrogen dynamics, crop rotations, biomass, dry matter and crop yield by considering irrigation systems, soil types, crops, water application strategies and different water qualities. SALTMED is also able to simulate climate change scenarios and the impact of climate change on plant growth, yield, water requirements and length of growing season under high and low emission scenarios. The model can simultaneously simulate 20 different fields or treatments. The model is user-friendly and compatible with Windows 7 and above.

The webinar is the ninth in a series of webinars organized by the International Network of Salt-Affected Soils (INSAS) of the Global Soil Partnership, an initiative which is aimed at raising awareness on sustainable management of salt-affected soils for food security, agricultural sustainability, environmental protection, and climate change mitigation.

Speaker: **Prof Dr Ragab Ragab**, Honorary President of The International Commission on Irrigation and Drainage, ICID. Fellow Principal Hydrologist and Water Resources Management Specialist at UK Centre For Ecology & Hydrology, UKCEH, Wallingford, Oxfordshire, UK. Adjunct Professor at Alexandria University, Egypt. Editor of Journal of Agricultural Science, Cambridge University, UK.

Registration link : https://fao.zoom.us/webinar/register/WN_VjXiwr60SfG0nQws-Ynsrw

The Global Soil Partnership (GSP) is a globally recognized mechanism established in 2012. Our mission is to position soils in the Global Agenda through collective action. Our key objectives are to promote Sustainable Soil Management (SSM) and improve soil governance to guarantee healthy and productive soils, and support the provision of essential ecosystem services towards food security and improved nutrition, climate change adaptation and mitigation, and sustainable development.

The International Network of Salt-Affected Soils (INSAS), launched in 2019 during the International Center for Biosaline Agriculture's (ICBA) first Global Forum on Innovations for Marginal Environments, is a Technical Network of the Global Soil Partnership (GSP) and follows its Rules of procedure. The Network aims to facilitate the sustainable and productive use of salt-affected soils for current and future generations.
INSAS's mission is to support and facilitate joint efforts towards the sustainable management of SAS for food security, agricultural sustainability and climate change mitigation.