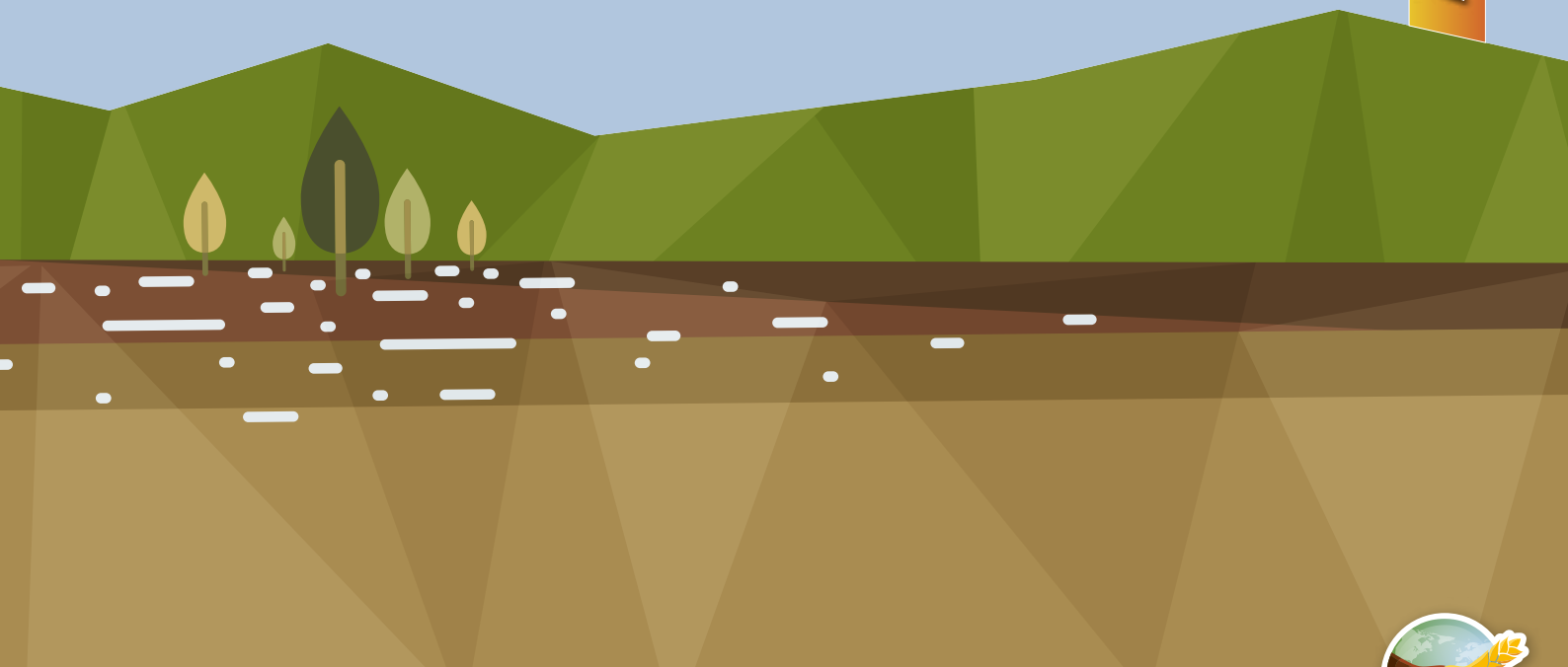
Food and Agriculture Organization of the United Nations

International Network of Salt-Affected Soils

Modelling plant growth with AquaCrop

26 November 2024
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. AquaCrop (https://www.fao.org/aquacrop/en/) is a crop growth model developed by the Land and Water Division of FAO to address food security and to assess the effect of environment and management on crop production. AquaCrop simulates yield response to water of herbaceous crops, and is particularly suited to address conditions where water is a key limiting factor in crop production.

Speakers:

Dirk Raes is an emeritus professor at the KU Leuven University, Leuven, Belgium. In the frame of irrigation projects, he lived and worked for 7 years in Africa (Algeria and Senegal). He is a specialist in evapotranspiration, soil water balances, irrigation water management and crop water productivity. He was involved in many international projects in Africa, Asia, and South America. Today he still closely cooperates with FAO (Land and Water division of the Food and Agricultural Organization of United Nations) in the further development of AquaCrop (the FAO crop model to simulate yield response to water). He is co-author of the FAO Irrigation and Drainage Papers No. 56 ('Crop evapotranspiration – guidelines for computing crop water requirements') and No. 66 ('Crop yield response to water').

Margarita García-Vila is currently a researcher at the Institute for Sustainable Agriculture of the Spanish National Research Council (CSIC). Her scientific activity has focused on sustainable management and conservation of water in agricultural ecosystems, combining crop simulation models with other methodologies and tools under present and future climate. This work has been oriented to develop tools to assist in operational, tactical and strategic decision making on water management at different scales, from plot to basin level. She is part of the core group of the AquaCrop model, contributing actively to its improvement and calibration.

The webinar is the seventh 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.

Registration link : https://fao.zoom.us/webinar/register/WN_BzdLYg4jSYO9ZjjDu8EVzA

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.