

Prof. Marcelo Sternberg

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Research Profile

Prof. Sternberg is an experimental ecologist interested on the effects of human activities on natural ecosystems. Within this topic he addresses questions covering plant community ecology, ecosystem functioning and global change. He is currently running one of the world oldest climate change experiments using rainfall manipulations along an aridity gradient in Israel. Drought climate change scenarios for the region are being tested in semiarid natural grasslands and at Mediterranean shrublands.

Additionally, Prof. Sternberg is involved in a long-term cattle range management experiment (23 years) in a Mediterranean grassland aiming to maximize stocking rates without affecting the sustainability of the grazing system. He is currently working in a remote sensing project studying the capabilities of the recently launched VEN μ S satellite, as a tool for quantifying the effects of climate change on forage quantity and quality in Israeli rangelands.

Prof. Sternberg is author of over 70 scientific publications published in leading peer-reviewed international journals such as Science, Nature Communications, Ecology Letters, Global Change Biology among others, with over 4,000 citations.

Marcelo served as President of the Israel Society of Ecology and Environmental Sciences from 2010 to 2012 (www.isees.org.il).