



Interactive comment on “Soil salinization risk assessment owing to poor water quality drip irrigation: A case study from an olive plantation at the arid to semi-arid Beit She’an Valley, Israel” by Vladimir Mirlas et al.

Anonymous Referee #2

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This is a formal review on the study of Mirlas et al. on “Soil Salinization risk assessment...” The authors applied a combination of research methods, including modeling, to investigate the effect of the irrigation by brackish waters on the soil properties. The subject is topical for the land use in arid regions. The methodology is adequate to the research problem, with an emphasis on combination of several field methods, complemented by transport modeling. While model development is not a primary focus of the study, the work may be of interest for the modelers audience, especially for those

C1

concerned with the land surface modeling including agriculture land use. The results are presented in a well-structured way. The conclusions are concise and supported by the results. Several minor remarks are listed below.

Lines 24-25: expand units of dS/m in the abstract. Salt content is not measured in siemens, but conductance. Line 72: typo "arid" Line 111: "crop" -> "drop"? Line 115: "poor quality" How the water quality is defined here? Lines 122 and 125: "soil salting" -> "soil salinization"? Line 136: "CIA factbook" -> provide a citable reference Line 138: "trees rows" -> tree rows Line 172: "per dunam" -> provide a SI unit.

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2020-231>, 2020.

C2