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 #1

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I enjoyed reading the article entitled: “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 Mirlas et al. The article is illustrating a viable setup for irrigation of plantations by recycled wastewater in semi-arid and arid regions. I highly recommend publishing the article in the Journal Geoscientific Model Development, after the revisions described below. There are also a few suggestions regarding additions that the authors may wish to incorporate in a revised draft.
Abstract P.1 L.23: “chalky soil” is it calcitic soil?

Materials and Methods P.5 L. 132:’”annual evaporation” maybe “potential annual evaporation”? P. 6 L. 141:” travertine” maybe “tufa”?

Research procedures P.10 L. 222: “general chalk” maybe “general calcium”?

Results

Corrections to figures Fig 1: I would add a general map of the east Mediterranean with the general location of Israel, in a square. Fig 3: I would add a general drawing that shows the experiment set up. Fig. 9: I would add “cm.” to the numbers in the legend. Fig. 11: Does each drawing present values from 0 to x cm depth, or from y cm to z cm? Fig 14: I would change the numbers in the legend “T0, T1 “ etc., to numbers that present the hours. For example: “T1” to “T2” after two hours,”T2” to “T12” after 12 hours. Fig. 16: I would make the x axis at the same scale for a, b and c. It will help to compare between the three treatments.