HESSD

Interactive
comment

Interactive comment on "Numerical modeling and sensitivity analysis of seawater intrusion in a dual-permeability coastal karst aquifer with conduit networks" *by* Zexuan Xu et al.

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Here is a brief summary of the changes made in the manuscript:

1) Shorten and restructure the introduction

2) Revise the elaboration of global sensitivity analysis by Morris method

3) Almost completely rewrite the section of sensitivity result part (section 4) by discussing each major finding separately in the paragraph.Âă

4) Clearly state that the local sensitivity analysis is necessary to be included, since it presents the parameter sensitivities particularly for modeling seawater intrusion in the

WKP (with the specified values of parameters in WKP). The global sensitivity analysis evaluates the parameter sensitivities within the ranges in general, in addition to the parameter non-linearity and interaction.

5) Completely rewrite the conclusion section with bullet points to highlight the major findings from sensitivities analysis

Again, we would like to appreciate all your comments and suggestions in the revision process.

Thanks Zexuan

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Discussion paper