

## ***Interactive comment on “3D Inverse modeling of EM-LIN data to investigate coastal sinkholes in Quintana Roo Mexico” by Luis Eduardo Ochoa-Tinajero et al.***

### **Anonymous Referee #2**

Received and published: 21 October 2018

The paper is interesting but poorly structured. Authors have to devide the article as it accepted in Copernicus template

Introduction

Why you go to study sinkholes with EM method Overview literature in this field What principles of sinkhole or karst detection you are using denote goal of your research: methodology of 3D inversion, karst detection

Study area Geology, local conditions Topography

The Method EM34 device has to be describe: what parameter is measured-

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conductivity what units you are use (mmho?) How you convert it to resistivity? Penetration depth of every array (separation, VMD, HMD)

Data acquisition. What antennas (separation) you used during data acquisition What dipoles you used

Theory of data inversion

Results Show primary graphs of measurements along every line Analyse maps generated, sections

Discussion. It is important to discuss criterion of detection water saturation May be refer to similar survey You conclude on water saturate tunnels, but what conductivity or resistivity will be in unsaturated rock environment

References are written right apart from missprint in family of Bauer 2011 on p.2 Figures require legend

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-180>, 2018.

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