

## Soil Salinity Mapping using Electromagnetic Induction Measurements

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**Abstract :** Electromagnetic sensor EM 38 was used to predict and map soil salinity (ECe) in arid oasis. Despite the high spatial variation of soil moisture and shallow watertable, significant ECe-EM relationships were developed. The low drainage network efficiency is the main factor of soil salinization

**Keywords :** soil salinity map,electromagnetic induction, EM38, oasis, shallow watertable

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