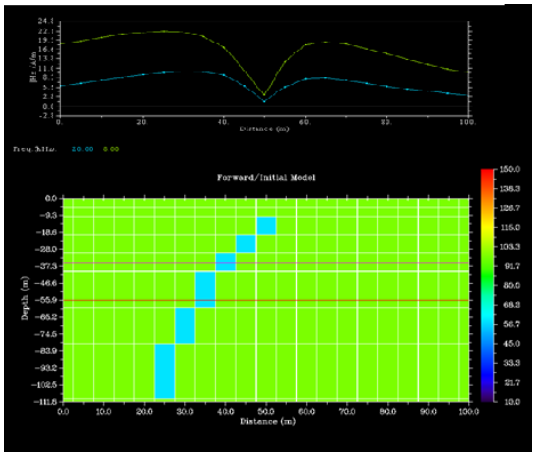
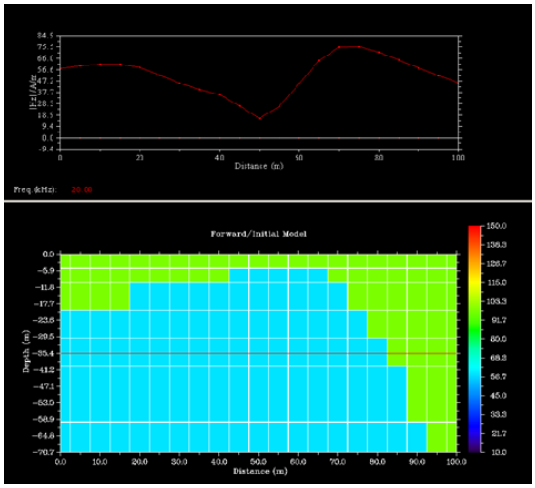
HzEMsoft is designed to interpret data collected with EMFAD (build by EMFAD-GmbH & Co.KG). The software has a 2D forward module that can be used to understand EMFAD data behaviour acquired over simple or complex targets.



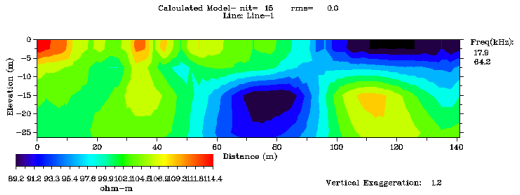
Simulating a dyke (2 frequencies)

2D multifrequency forward calculations are based in the finite element method.



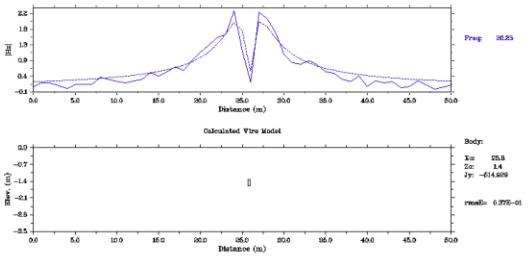
A more complex geology and response for 20 kHz.

2D inversion of profiles for some frequencies is also possible.



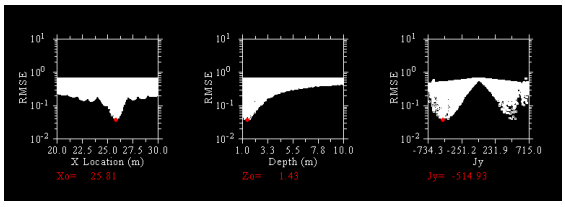
Example of 2D inversion for 17 and 64 kHz.

HzEMsoft contains also a module for interpretation of data collected over pipelines or spheres. Targets that can be simulated by these simple bodies are often encountered in geotechnics.

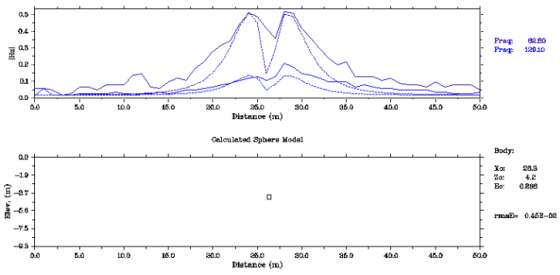


Localizing a pipeline

Inversion of the data allows an estimation of the target position in the subsurface. As the calculations are made by Simulated Annealing, information about the ambiguity of the solution is also available.



Analysing the ambiguity od a solution.



Localizing a spheric target using 2 frequencies.

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