FDEMgui

Physical quantity to be inverted

- (•) Electrical Conductivity
- ( ) Magnetic Permeability

Data to be inverted

- (•) Synthetic data
- ( ) Experimental data

Open

Device Configuration

Select device | Edit device | Refresh | Geophex GEM-2 1

Distance: 1.66 m

Frequency: [775;1175;3925;9825;21725;47025] Hz

Orientation: Both

Data management

- [x] Invert all
- Number of columns
- Column to invert: 1
- [x] Pcolor plot
- [ ] Average of all columns
- Force orientation: Don't force

Synthetic Dataset

Model conductivity σ: Gaussian

m: 0.2 a: 0.6

ϑ: 1 b: 1.9

z0: 1

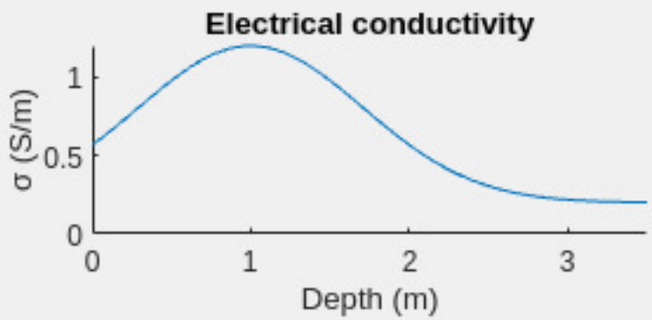
Model relative permeability μ_r: Gaussian

m: 0.2 a: 0.6

ϑ: 1 b: 1.9

z0: 1

Info for test profiles



Discretization

Number of layers: 60

Maximum depth [m]: 3.5

Number of heights: 1

Max. height [m]: 1

Noise

Noise level: 1.000000e-03

Off | Locked

Inversion options

Signal component: Quadrature compon…

In-phase scaling parameter: 1

- [x] Use default parameters

Stop tolerance: 1.000000e-04

Maximum number of iteration: 60

- [ ] Minimum norm solution
- [ ] A priori solution
- [ ] Upload input model

Open

Initial constant solution σ: 0.5

Initial constant solution μ (relative): 3

Jacobian computation: Analytical Jacobian

Regularization

Regularization matrix: Second derivative

Type of regularization matrix: Derivative

Parameter for MGS: 1.000000e-08

Methods to choose the regularization parameter

- [x] Corner
- [ ] Quasihyb
- [ ] Optimal
- [ ] Discrepancy — Tau for discrepancy: 1.1
- [ ] Fixed — Truncation parameter: 1

Save data | Run | Stop