

Import TEM data from ABEM WalkTEM into SPIA

Example files can be downloaded at <http://wiki.hgg.au.dk/do/view/SPIA/WebHome>

This importer should not be necessary to use, since the ABEM WalkTEM instrument already exports data in .gdb files. This importer should only be used if the export from the ABEM WalkTEM instrument somehow is failing.

Folder structure

The main project folder contains a number of folders, one for each sounding.

An example:

Data/Flight1
Data/Flight2

Each of the Flight folders must contain:

- An ABEM WalkTEM ini file (See next page for description).
- One or more RwB files
- One or more sps files

Step-by-step guide

1. Go to the SPIA installation folder and run the WalkTEMimporter.exe file.
2. Browse for the folder where the data folder is located.
3. Click convert to import the data.

Notes about the WalkTEM ini file:

- The SoundingGroupName in ALL inifiles MUST be the same as the project folder name.
- The SoundingName in the inifile MUST be the same as its Station folder name

WalkTEM ini file

```
[Header]
Version=1
SoundingGroupName=Data
SoundingName=Flight1
SoundingNumber=1

[Instrument]
SerialNo=SN TBD
SWVersion=SW TBD
GateTimeShiftLM=-0.9e-6 %Calibration factor
GateTimeShiftHM=-0.8e-6 %Calibration factor
GateFactorLM=2.00 %Calibration factor
GateFactorHM=2.00 %Calibration factor
InstrumentFilter=4.500E+05
InstrumentFilterOrder=1

[Config]
NTurns=1
LoopSizeX=40
LoopSizeY=40
TXHMTurnOn=800E-06 %Waveform
TXHMTurnOff=9E-06 %Waveform
TXLMTurnOn=100E-06 %Waveform
TXLMTurnOff=5.6E-06 %Waveform
TXPosX=0
TXPosY=0
RXPosCh1X=0
RXPosCh1Y=0
RXPosCh2X=0
RXPosCh2Y=0

RXCoilFilterCh1=1.500E+05
RXCoilFilterOrderCh1=1
CableLengthCh1=33
RXCoilFilterCh2=1.500E+05
RXCoilFilterOrderCh2=1
CableLengthCh2=33

CoilAmpGainCh1=700
CoilAmpGainCh2=700
UseCh1=1
UseCh2=0
```