

Import TEM data from HGG WalkTEM into SPIA

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

Folder structure

The main project folder contains a number of folders where each of these contain a number of subfolders, one for each sounding/station (often named Flightx).

An example:

```
Data/20160101/Flight1
Data/20160101/Flight2
Data/20160102/Flight1
Data/20160102/Flight2
```

Each of the Flight folders must contain:

- A HGG WalkTEM ini file (See next page for description). There is an option on the GUI to copy a ini-file to all station folders.
- One or more Rwb files
- One or more sps files

Step-by-step guide

1. Either go to File → Import in SPIA and choose import data in HGG WalkTEM format and load the data file, or go to the SPIA installation folder and run the HGGWalkTEMimporter.exe file.
2. Browse for the folder where the data folder is located.
3. The “Convert Hardware Channel” function is ignored during import.
4. Choose if all flight folders have a ini file or if the user want to copy a ini-file into all flight folders.
5. Choose if data from all dates should be imported or only for selected dates. Select the dates.
6. Click convert to import the data.

Notes

Furthermore, the data will be put in a gdb database which will be placed in the Data folder. If a gdb file already exists, it will be overwritten.

WalkTEM ini file

```

[Header]
Version=1
SoundingGroupName=TX03 %This named is ignored. The Data folder name will be used.
SoundingName=Flight1 %This name is ignored. The name will automatically be "date1_01",
SoundingNumber=1 "date_01_02", date2_01" etc.

[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

```