# Importing TEM Data into IX1D v 3 using PROTIX– A Tutorial

Version 1.1

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#### First list and read the PROTIX Help File

#### Exporting for Ix1D

- \* Press <Pg> to scroll through decays
- Mark some decays to export with + M<Ent> marks all. Msss<Ent> marks stations beginning sss;
   unmarks; MU<Ent> unmarks all.
- Press C<Ent> to combine & copy marked decays (adding to end of list). You can then unmark all (MU), and mark and copy more decays.
  - (Adjacent measurements at same station
    will be averaged. Press \*sss<Ent><Ent>
    to change the current station to sss.)
- Press <Esc> to write the copied soundings in a .USF file for interpreting with Interpex's Ix1d.

Now with this in mind, we execute PROTIX inside of DOSBOX (dosbox.sourceforge.net).

# Next Run PROTIX with file name

DOSBox 0.74, Cpu speed:	3000 cycles, Frameskip 0, Program: DOSBOX	x
C:\>mount d c:\dataix1d\geonics Drive D is mounted as local directory c:\dataix1d\geonics\		
C:N>D:		
D:N>PROTIX TUTORIAL.R	ED_	

First, run DOSBOX and mount the directory containing your data and the PROTIX program as a drive.

Next, switch to that drive and run PROTIX with the name of the file you wish to convert to USF FORMAT.

#### PROTIX Loads the Data

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: PROTIX	
** AltS switches sound **	Line 011W 1   Line 011W 1
DATEM	
GEONICS TEM Data Editing & Reduction	N0 = 640
Feb /00	
Data from TUTORIAL.RED Esc-stop read	show Headers No
Day Station node Fr Start IUIOKIHL.KED BILW	Deett Status
USING Data CMP Sync N II Logger	Rec# Status
2311 011W 0130W2 UPK ALL X 4a 5+ #00330	50 USING Data
2311 011W 0130W2 VPN XIL H 4a 5+ #00331	51 USING Data r
2311 011W 0131W2 VPN XIL X 4a 5+ #00332	52 USING Data
2311 011W 0131W2 VPK XIL H 4a 5+ #00333	53 USING Data r
2311 011W 0131W2 VPN XIL X 4a 5+ #00334	54 USING Data
	55 USING Data
	47 USING Data
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	40 USING Data
.14 IW 0125W2 UFR XIL H 4a 5+ #00329	45 60000 ta

PROTIX will generate some noises and scrolling text as it loads the data.

### The DOS Graphics Shows Data



Press "M" to bring up a menu:



**Press<enter> to mark all soundings and continue.** 

The DOS graphics screen shows the data and a menu. The file is identified in the lower right corner of the screen. Menu may be at the top or right side of the screen.

#### Now, The DOS Graphics Shows All Data



The DOS graphics screen shows all data and one of them will be selected (flashing).

#### Combine Like Data Sets



Press "C" to bring up a menu:



Press<enter> to average and copy marked data and continue.

The DOS graphics screen shows the data and a menu. The file is identified in the lower right corner of the screen. Menu may be at the top or right side of the screen.

### Output the Data



ſ	New Data Sets:
	Name of file to store data ? TUTORIAL
i	(Default .USF = Universal Sounding Format)
	.XYZ - output in PGW GEOSOFT format
i	

Press <esc> to bring up the file output menu. Enter the name of the file and press <enter>. Here we will name the file Tutorial.USF. When the menu pops up, press <enter> again to finalize the output to TUTORIAL.USO.

Big DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program:
EM58 data from TUTORIAL.RED: dBZ/dt; nV/Am <sup>2</sup> Esc - abort C - close file
Mew Data Sets: dBZ/dt; nV/Am^2

#### Revert to Main Screen



Press "Q" to Quit, press "Q" again to select mode of Quitting.

# Finally, Run USFXLT to Finish Conversion

DOSBox 0.74, Cpu speed:	3000 cycles, Frameskip 0, Program	n: DOSBOX	
D:N>USFXLT_			
		Assigning Tx dimens	ions 200, 300
Writing data to file	TUTORIAL.USF		

Enter:

'A' to ask at each sounding ?

'Cssss'

Rx offset from Tx center (X,Y)

if center at station ssss;

After exiting PROTIX, run USFXLT to finalize conversion of intermediate file to USF format. Press "5" if you have 50 Hz power line frequencies. Select Tx position or Ask at each sounding.

Press 5 for 50Hz frequencies

### Finished!

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX
Sounding 1 : $0111WC/011W$
Sounding 2 : 0112WC/011W
Sounding 5 0113wc/011W
Sounding 5 · 011540/0114
Sounding 5 · 0115w0/011W
Sounding $2 \cdot 011000/0110$
Sounding 8 : 01180/0110
Sounding 9 : 0119WC/011W
Sounding 10 : 012000/0110
Sounding 11 : 0121WC/011W
Sounding 12 : $0122WC/011W$
Sounding 13 : 0123WC/011W
Sounding $14 : 0124WC/011W$
Sounding 15 : 0125WC/011W
Sounding 16 : 0126WC/011W
Sounding 17 : 0127WC/011W
Sounding 18 : 0128WC/011W
Sounding 19 : 0129WC/011W
Sounding 20 : 0130WC/011W
Done! Files written: TUTORIAL.USF

Sounding numbers and names scroll by as the conversion is completed..