## **Extract Sub-Grid from Geoid File with TDS Survey Link Software For use with Survey Pro CE pre Version 3.5 Vertical Projection: Geoid Model**

From the PC's Start Menu: Start | Programs | TDS Survey Works | Survey Link...

From the Geodetic pull-down menu, select Extract Sub-grid from Geoid File...

Survey Link with Geodetic Module 7.5.4	
File View Transfer Conversions Options Geodetic Tools Help	
Create Zone File	
<u>T</u> ransfer Geodetic Files	
Extract Sub-grid from Geoid File	
ry.	
Create a geoid file for a given region.	

Figure 1

Extract Sub-Grid from Geoid File menu:

Extract Sub-grid from Geo	id File	×
Geoid Model:	Geoid99	
Geoid File Path:	C:\GE0_DATA Choose Path	
Format of extracted sub grid	pre 3.5 format (*.bin)	
Geoid Sub-grid Filename:	C:\DATA2002\RTK-DATA\Geoid-Models\VA Browse	
Sub-grid Description:		
Project Central Latitude:	39.034513601	
Project Central Longitude:	-077.285071102	
Project Extent:	250.0000 Miles 💌	
СК	Cancel Help	



Populate the Templates in the Extract Sub-Grid from Geoid File menu...

- 1). Select the **Geoid99** for the Geoid Model.
- 2). Choose Path for the Geoid Model library, C:\GEO\_DATA is the default directory, specified during the installation of TDS Survey Link & Geodetic data.
- 3). Specify Format of the Extracted Sub-Grid, dependent of which Version of Survey Pro CE software installed on the TDS Ranger.

## Pre Survey Pro CE Version 3.50, Geoid Models will have \*.Bin file extension. Post Survey Pro CE Version 3.50, Geoid Models will have \*.GGF file extension.

- 4). Enter Project's Central Latitude.
- 5). Enter Project's Central Longitude. When using West Longitudes, be sure to enter minus sign preceding Longitude.
- 6). Enter Project extent in Miles, or Km's

7). Click on **OK** button to create Sub-Grid from Geoid.



Figure 3

Indication that the Geoid Sub-Grid has been successfully created...

Click on OK...

Next, Transfer the newly created Geoid Sub-Grid from the office PC, over to the TDS Ranger...

Survey Link with Geodetic Module 7.5.	4	
File View Transfer Conversions Options	Geodetic Tools Help	
	Geodetic Calculations	
	<u>C</u> reate Zone File	
	<u>I</u> ransfer Geodetic Files	
	♥ Extract Sub-grid from Geoid File	
Transfer geodetic files to data collector		1.

Figure 4

Select Geodetic | <u>Transfer Geodetic Files...</u> TDS Survey Link – <u>Transfer Geodetic Files...</u> menu:

Transfer Geodetic Files	×
Survey Pro DOS Survey Pro CE pre 3.5 Survey Pro CE 3.5	
Choose the files to be sent to Ranger.	
Horizontal Projection	
Custom Projection File	Browse
NADCON Datum Transformation Conus (*.las and .los )	
Path to Grid Files:	Choose Path
Vertical Projection	
Geoid Models Geoid99	
Path to Geoid Files: C:\DATA2002\RTK-DATA\Geoid-Models	Choose Path
Choose Geoid99 or Sub-grid File	Browse
Send Setup Cancel	Help

## Figure 5

Select the Survey Pro CE pre 3.5 tab...

Next, from the Vertical Projection menu...

- 1).  $\sqrt{\text{Geoid Models, then select Geoid99}}$
- 2). Choose the Path to Geoid Files...
- 3). Choose Geoid99 or Sub-Grid:\ In this example: C:\DATA2002\RTK-DATA\Geoid-Models\VA-North99.bin
- 4). Click on Setup, specify COM Port, Baud Rate... Match these settings on the TDS Rangers | Transfer menu...
- 5). Connect the TDS Ranger to the office PC / Laptop PC running TDS Survey Link.

- 6). On the TDS Ranger Survey Pro CE S/w,
  - [1] File [F] Transfer menu...

Tra	ansfer	Close
Con	necting to: Windows PC	▼
	Communications Settings: -	
	COM Port: COM 1	<b>T</b>
	Baud 115200	
	Parity None	<b>T</b>
	Enter Server Mo	de
	Send File Rec	eive File



Stalla 0 J ...

7). From the TDS Survey Link's Transfer Geodetic Files menu – click on **Send...** 



Figure 7

Back over on the TDS Survey Pro CE Software, Tap on the

Enter Server Mode... button,





TDS Survey Link Transfer dialog...

TDS Ranger – Survey Pro CE Transfer menu...

Transfer	Close
Transfer	
Running in Server Mode	
Initiate transfer from the other device. Press 'Cancel' to exit.	
<u>Cancel</u>	
Send File	

Figure 9

After the Geoid Sub-Grid file has been successfully transferred over to the TDS Ranger, Tap on the <u>C</u>ancel button in the **Transfer** menu on the TDS Ranger. This will Stop the Server Mode and return you to the Survey Pro CE main menu.

Tap the **Close** button in the Survey Pro CE S/w, this will return you to the Survey Pro CE main menu.