

Extract Sub-Grid from Geoid File with TDS Survey Link Software For use with Survey Pro CE Version 3.5 +

Localization (+ Geoid) - Vertical Projection.

The Survey Pro CE V3.5+ Geoid Sub-Grids will have a ***.GGF** extension

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...**

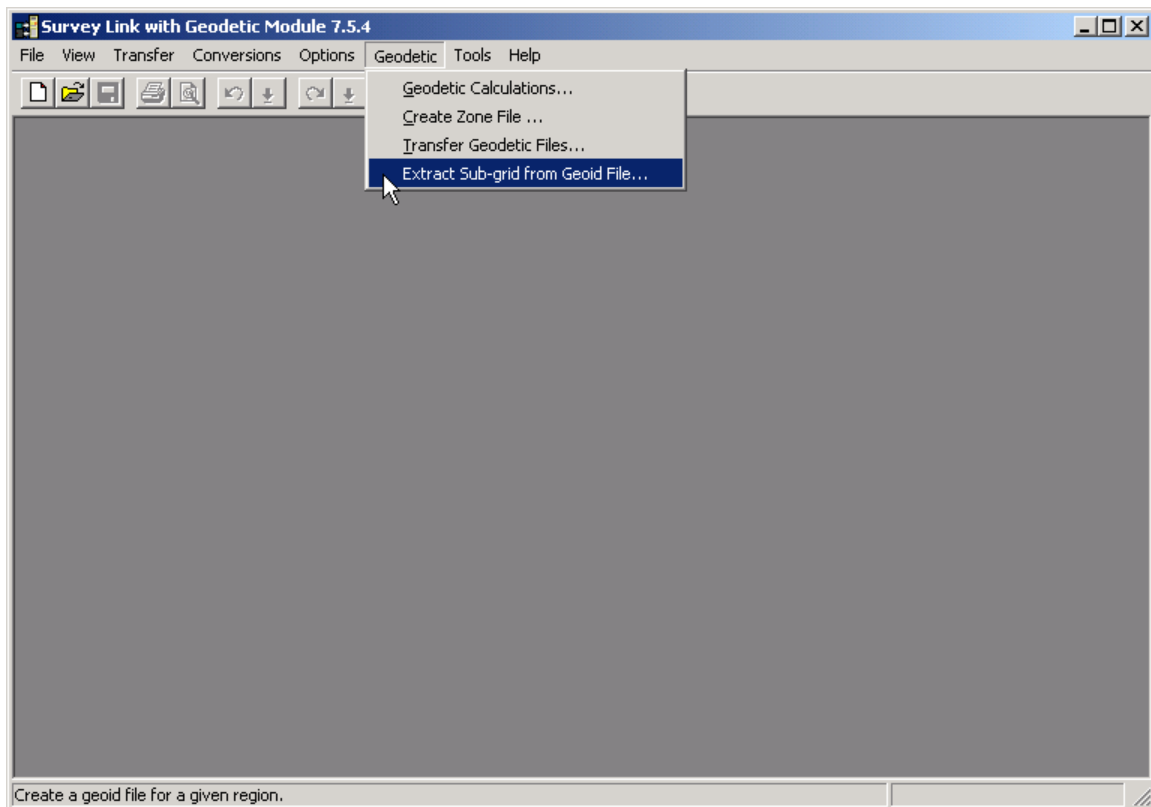


Figure 1

Extract Sub-Grid from Geoid File menu:

Extract Sub-grid from Geoid File

Geoid Model:

Geoid File Path:

Format of extracted sub grid:

Geoid Sub-grid Filename:

Sub-grid Description:

Project Central Latitude:

Project Central Longitude:

Project Extent:

Figure 2

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, **Survey Pro 3.5 format (*.ggf)**.

**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.

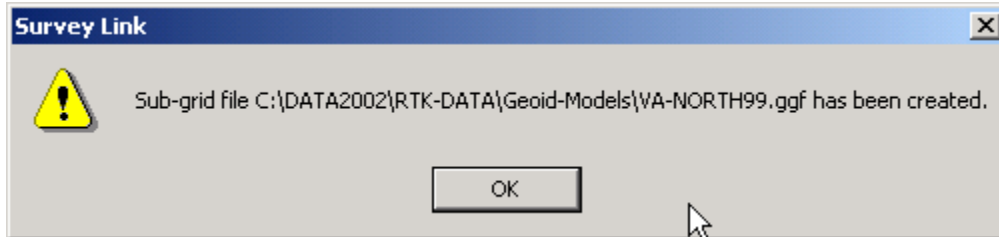


Figure 3

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

Click **OK**,

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

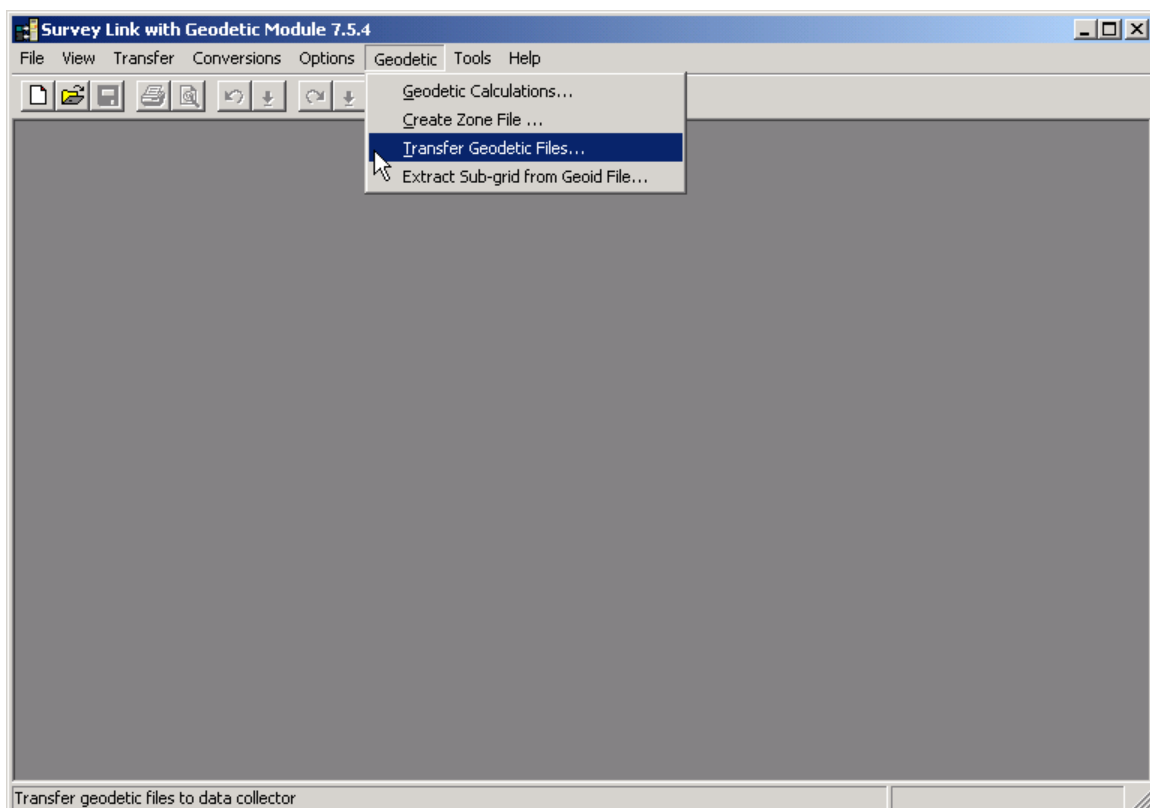


Figure 4

Select **Geodetic** | **Transfer Geodetic Files...**

TDS Survey Link – **Transfer Geodetic Files...** menu:

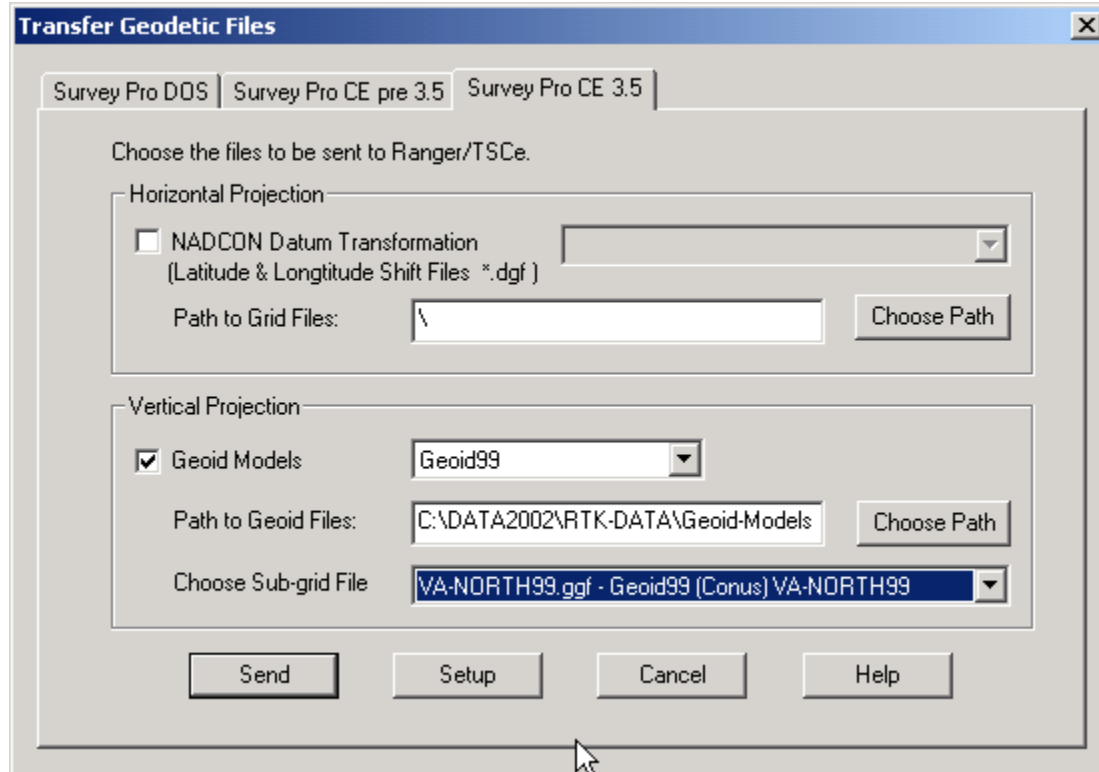


Figure 5

Select the **Survey Pro CE 3.5** tab...

Next, select the **Vertical Projection** menu...

- 1). ✓ **Geoid Models**, then select **Geoid99**
- 2). Choose the Path to Geoid Files...
- 3). Choose Geoid99
In this example: **C:\DATA2002\RTK-DATA\Geoid-Models\VA-NORTH99.GGF**
- 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...

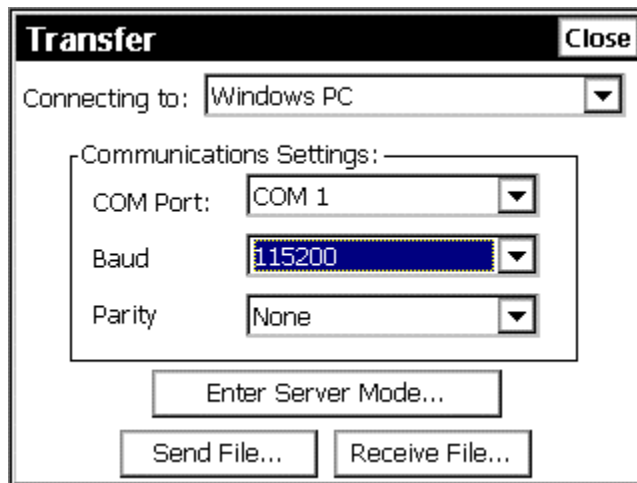


Figure 4

Stand by...

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

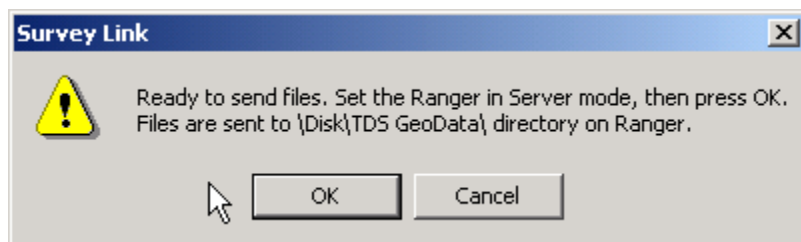


Figure 5

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

Enter Server Mode... button,

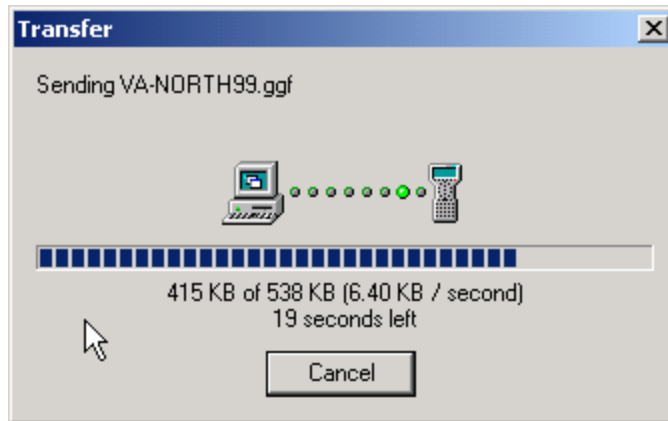


Figure 6

TDS Survey Link **Transfer** dialog...

TDS Ranger – Survey Pro CE **Transfer** menu...

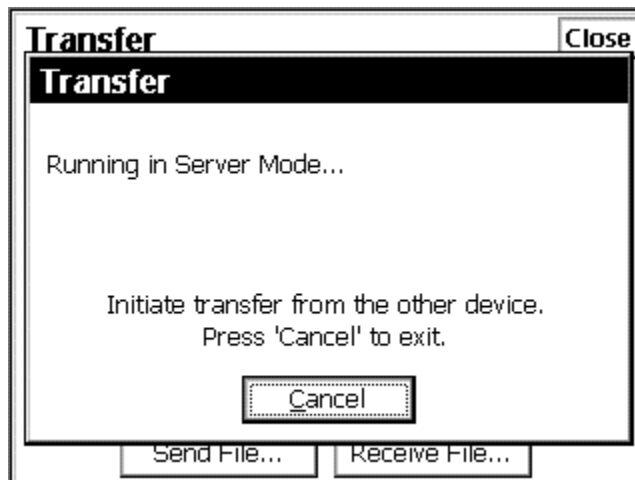


Figure 7

After the Geoid Sub-Grid file has been successfully transferred over to the TDS Ranger, Tap on the **Cancel** 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.