



# TECH NOTES

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**October 1, 2009**

WELCOME TO TECH NOTES - FRONTIER PRECISION'S MONTHLY E-NEWSLETTER!!! TECH NOTES IS DESIGNED TO KEEP YOU UP TO DATE WITH TIPS AND INFORMATION ON THE LATEST TECHNOLOGY IN SURVEYING, CONSTRUCTION, AND GIS. OUR COMPANY GOAL IS TO HELP YOU BE MORE EFFICIENT AND MORE PROFITABLE BY UTILIZING TODAY'S TECHNOLOGY.

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**TECH SUPPORT HOTLINE 888.797.4774**

## Geoid 2009

A new Geoid Model has been released, Geoid 2009. This new geoid model is going to provide some significant improvements to the previous geoid models, 1999 and 2003. Below are some important notes about this new geoid model and also some instruction on downloading and installing it into your software and equipment.

### Important Notes:

It is **not** recommended that you change the Geoid Model from a previous model to this new 2009 model on an existing job. Finish the job with the existing geoid model and start using the new Geoid Model on new jobs. When using the Minnesota County Coordinate System, it is recommended to use Geoid 2009 along with the 2007 adjustment coordinates only to get the best vertical results and minimize geoidal error.

NAD83 (1996) with Geoid 2003

NAD83 (2007) with Geoid 2009

### Trimble GeoMatics Office Installation Instructions:

You can download the new geoid 2009 at the following Web Address:

[http://www.trimble.com/geomaticsoffice\\_ts.asp?Nav=Collection-66364](http://www.trimble.com/geomaticsoffice_ts.asp?Nav=Collection-66364)

Click and save this new file (G09US.ggf) to the following directory: C:/program files/common files/trimble/geodata

Open your Trimble GeoMatics Office software. Click on Utilities and select Coordinate System Manager. If you are asked to upgrade the database, choose No. Now select the Edit pull down and choose Add Geoid Model. Type in a name for the new Geoid Model (GEOID09 CONUS). In the Filename dialog, choose G09US.ggf. Click OK and then click select File and Save. Close the Coordinate System Program.

### Trimble Business Center Installation Instructions:

Once Trimble Business Center is open, choose Tools – Coordinate System Manager. Use the same instructions as outlined above in the Trimble GeoMatics Office Installation Instructions to complete the installation of the new Geoid Model.

### Upload Geoid 2009 to your Controller:

Create a new Trimble GeoMatics Office project. When you get the Project Properties Dialog box up, click on the Coordinate System tab. Choose the top change button, then Select New Coordinate System – Next, Select any Coordinate System and Zone – Next, choose the new Geoid Model (GEOID) ( CONUS) – Finish.

Now click Apply and OK to close the Project Properties dialog. Now select File and Export. Click on the Survey tab and choose Export Geoid Model to Survey Controller and click OK. Choose Create Subgrid of Geoid Model and then OK. Using your cursor, click and drag a box around the geographic area that you need the geoid model to cover, considering areas that you may go to in the future (you can use the zoom in and out tools in the upper left of this dialog box to make this easier). Once you are satisfied with the box, click OK. In the Save As dialog box, give the model a name (GEOID09) and Click Save. Now your Survey Device dialog box will appear. Select your Survey Device and connect your controller to the PC using ActiveSync. Once connected, Click Save to save this new Geoid model onto the controller. Now you can apply this new Geoid Model to your new jobs.

**If you have questions about the new Geoid Model 2009,  
please contact our Technical Support department at 1-888-797-4774.**

### Current FW / SW Versions

[Click here to view Frontier Precision procedure sheets online!!!](#)

Trimble 5700/5800	<b>2.32</b>	Trimble TSCe Survey Pro w/ TSX	<b>4.6.0</b>	Trimble S6	<b>R11.0.76</b>
Trimble R8 GNSS	<b>4.01</b>	Trimble NetRS	<b>1.20</b>	Trimble R7 GNSS / R6	<b>4.01</b>
Trimble TSC2/ TCU Survey Controller	<b>12.44</b>	Trimble NetR5	<b>3.60</b>	Trimble HPB450 / PDL450	<b>2.42</b>
Trimble ACU/TSCe Survey Controller	<b>11.40</b>	RealWorks	<b>6.3.1</b>	Trimble VX Spatial Station	<b>R11.0.76</b>
		Trimble GeoMatics Office	<b>1.63</b>	Trimble GX 3D Scanner	<b>4.0.5</b>

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