Creating a Geoid Field File from NRCAN .byn Geoid model
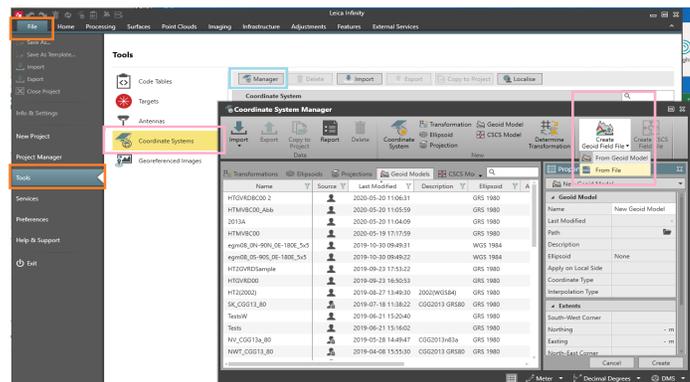## Support Toll Free: (855) 414-9453

This is a quickguide which outlines the steps using **Leica Infinity** to take any Geoid Models as found on NRCAN (Natural Resource Canada) to create a Geoid Field file to use in a **Leica Captivate/Viva controller.**

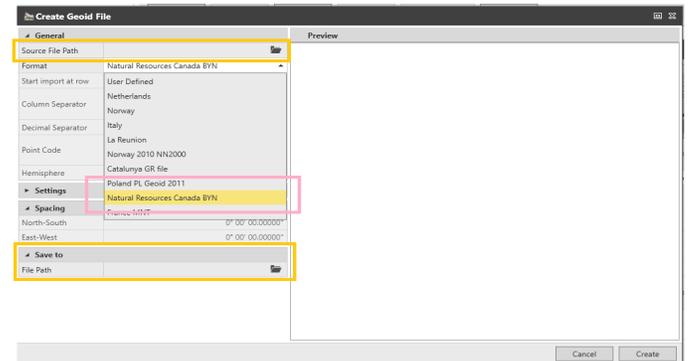There are various different geoids, please ensure you understand the differences, and the application of each of them as found here: https://webapp.geod.nrcan.gc.ca/geod/data-donnees/geoid.php

For more information about geoid/geodetic datums, please refer to: https://www.nrcan.gc.ca/height-reference-system-modernization/9054

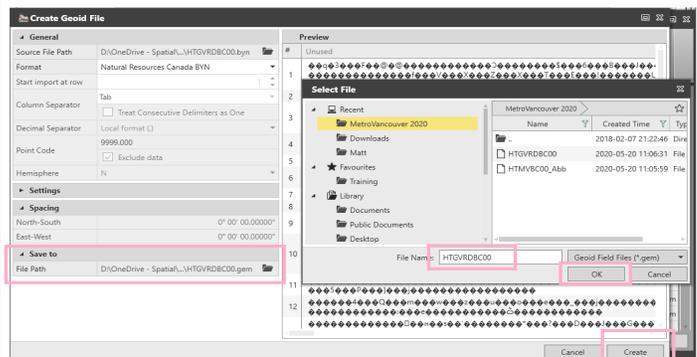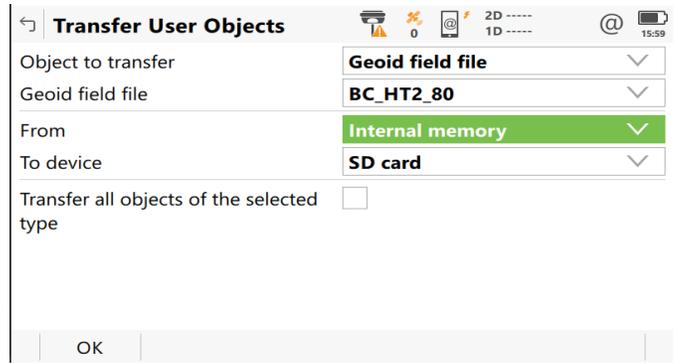|	
In Infinity, navigate to the *File* tab and to <Tools>, <Coordinate System>, and select **Manager**. In the master Coordinate System Manager, click on **Geoid Field Field,** and select *From File*	
Select the Correct Source File Path of your .byn Ensure that the for format is set to **Natural Resource Canada BYN** Select the correct path to Save the .gem file to	
Please note that the .byn preview will show binary characters, and also settings of the Geoid Field file (.gem) will be based on the settings of the original .byn Geoid file. Press OK and then Create.	

Methods of Loading Geoid Field Field: With the SD card or USB card that is to be used in the CS controller inserted directly into the computer, copythe .GEM file to the \Data\GPS\Geoid on the memory card. With the .gem file in the correct folder and at the main menu:	**Transfer User Objects** Object to transfer — **Geoid field file** ∨ Geoid field file — **BC_HT2_80** ∨ From — **Internal memory** ∨ To device — **SD card** ∨ Transfer all objects of the selected type — ☐ OK

In SmartWorx Viva	**In Leica Captivate**
1. Press 4 (User) --> 4 (Tools & utilities..) 2. Press 1 (Transfer user objects) In the transfer objects screen select the Geoid field file from the pull down, specify what medium the Geoid field file is stored and transfer the file to the internal memory. 3. With the required fields populated, the name of the Geoid field file will be available in the Geoid Field file pull-down. 4. Select the correct file and press F1 (OK). Once copied, the instrument will displayed that it the transfer was successful.	1. Press (Settings) --> (Tools) --> (Transfer user objects) 2. In the transfer objects screen select the Geoid field file from the pull down, specify what medium the Geoid field file is stored and transfer the file to the internal memory. 3. With the required fields populated, the name of the Geoid field file will be available in the Geoid Field file pull-down. 4. Select the correct file and press F1 (OK). Once copied, the instrument will displayed that it the transfer was successful.