Adding the iG3s Antenna Definition to GNSS Solutions

Date: 8 March 2018

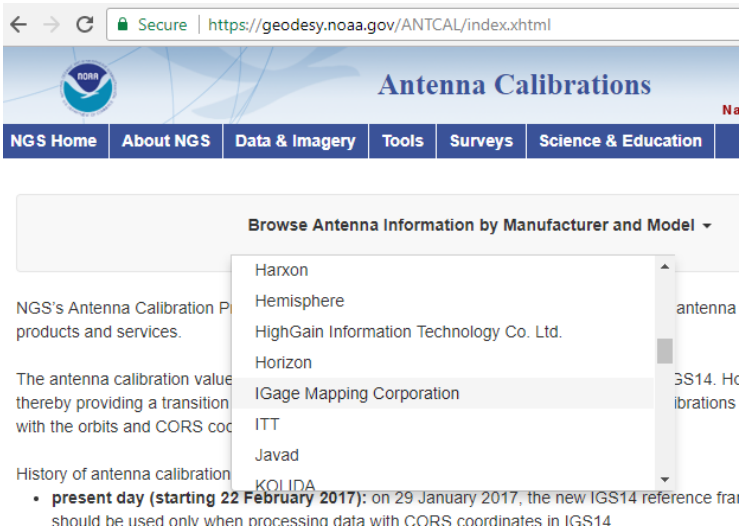
By: Mark Silver, ms@igage.com

You could load the correct values manually, however you won't get the extended (Advanced) values loaded easily. The best way is to download the iG3s antenna definition file (with a .003 extension) from the NGS page and then import it into GNSS Solutions.

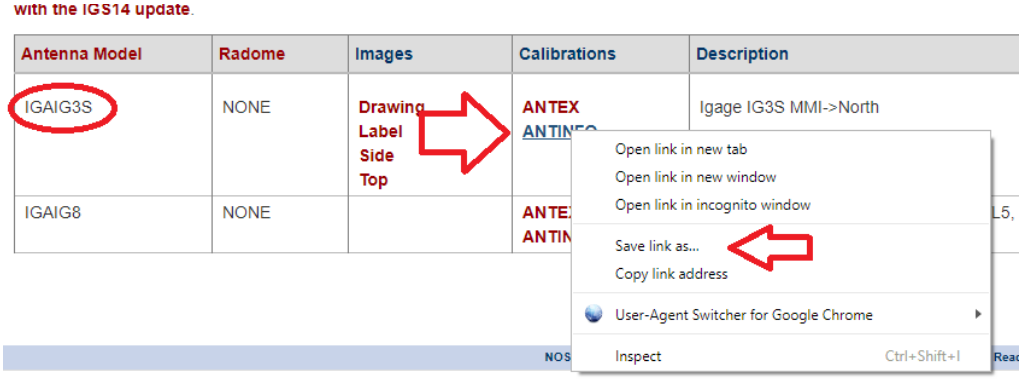
On the internet, browse to the NGS Antenna page:

https://geodesy.noaa.gov/ANTCAL/index.xhtml

Select iGage from the manufacturer list:

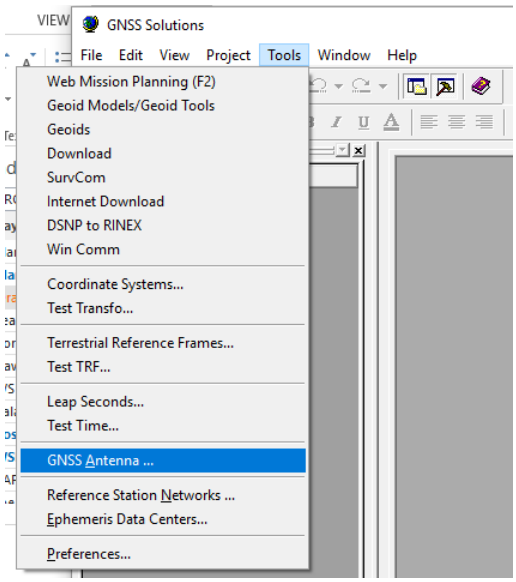


Right-click on the ANTINFO entry for the iG3s and select 'Save link as…':

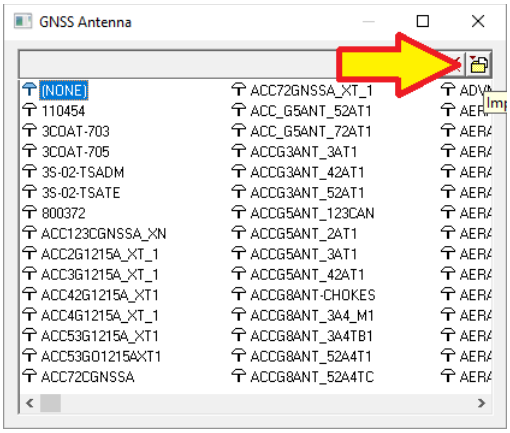


Save the file someplace where you can find it easily.

In GNSS Solutions choose 'Tools: GNSS Antenna':



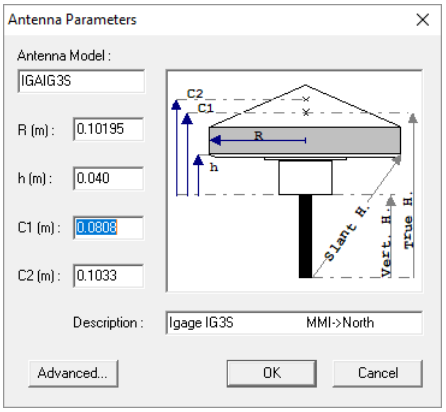
Import the file you downloaded: click on the import button:



then browse to the location where the .003 file is stored and import it.

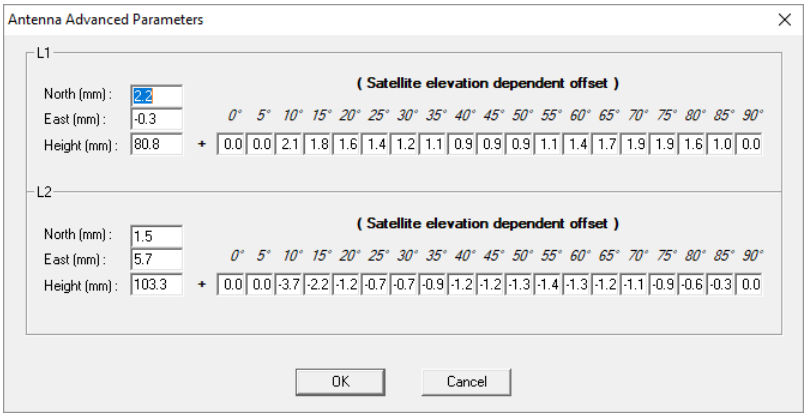
Next find the IGAIG3S antenna type at the very end of the list (if you exit the GNSS Antenna manager and re-enter it will move to the correct alphabetical location.)

The parameters will need to have the R and H entered as they are not included in the .003 files. These two parameters make it possible to use Slant Measurements in GNSS Solutions.



You will need to manually enter the R and h (Radius and SHMP) as shown above.

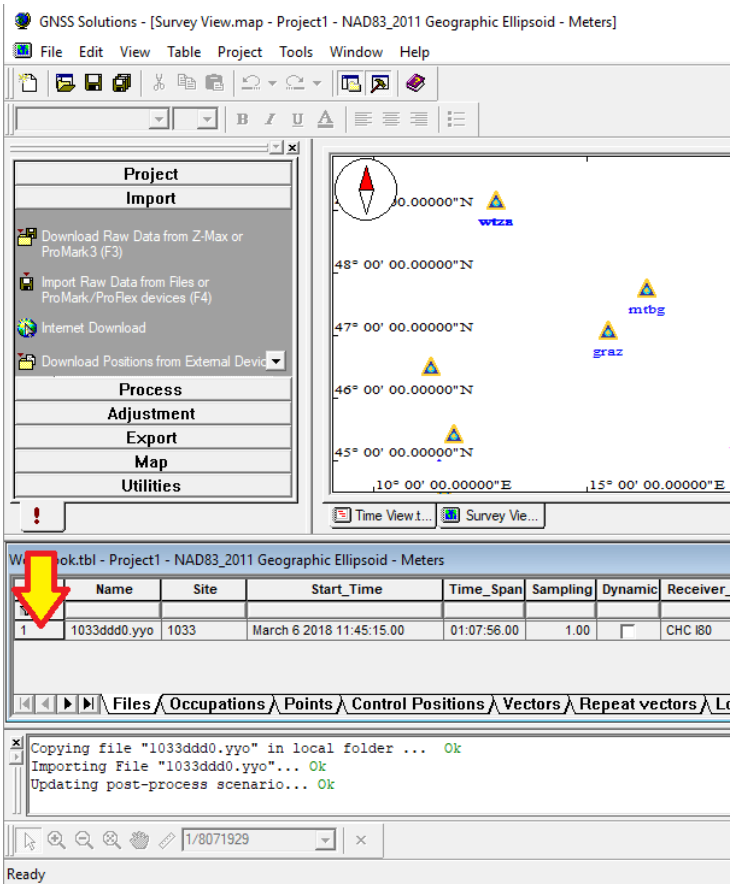
If you click on the 'Advanced…' button, you will see why it is easier to import the antenna file:



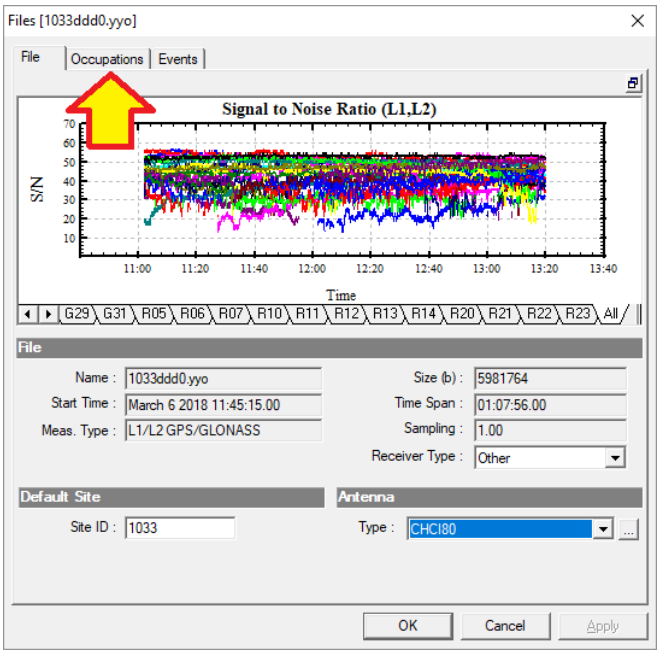
This would be a lot of data to enter by hand.

Exit the Antenna Manager to save the antenna mode.

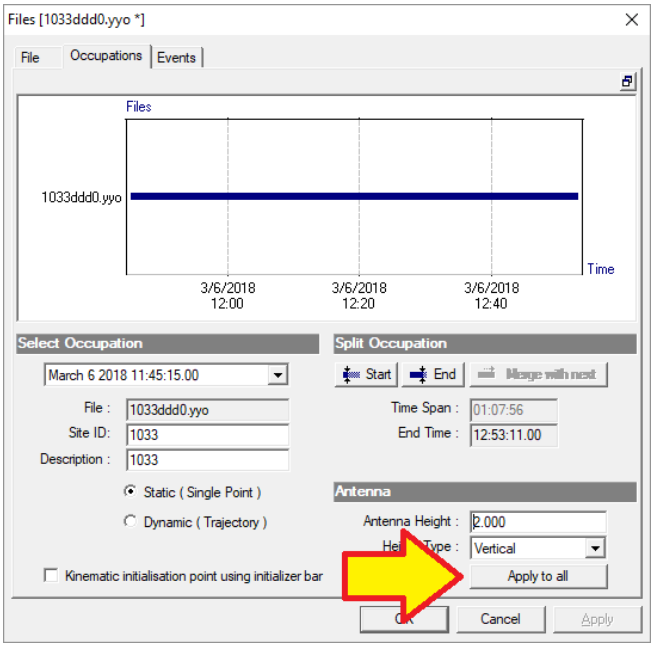
Don't forget that EVERY SINGLE TIME you import a RINEX file into GNSS Solutions you MUST double-click on the left button of the Files tab for every RINEX file:



Then click on the occupations tab:



Next check the Antenna Height



and then you **ABSOLUTELY MUST CLICK ON** 'Apply to all'. If you don't click on this button there is a strong possibility that your selected HI will not be registered in the GNSS Solutions processing engine. You must click on the button EVEN IF YOU DO NOT CHANGE THE HI!