

## **Magnetic Variation Calculation – new 5-year validity code**

Magnetic Variation is calculated from a model that must be updated every five years. The previous magnetic variation data in Navmaster expired 31<sup>st</sup> December 2019. Until the new data is installed, Navmaster will be unable to calculate magnetic variation and will display a message "Magnetic variation data unavailable".

A new file, **IGRF2020.dat**, is available for the period from 1<sup>st</sup> Jan 2020 to 31<sup>st</sup> December 2024. To download the file:

1. Click this link - [www.pcmaritime.com/downloads](http://www.pcmaritime.com/downloads) - or type the address in your browser.
2. You will see a list of files that are available for download.
3. Right click on **IGRF2020.zip** and select Save Target as...
4. If Navmaster is on the computer you have used to connect to the internet, save directly to the folder where Navmaster is installed – normally C:\Program Files\Navmaster.
5. Otherwise save to a temporary folder and copy to the computer used to run Navmaster.
6. Extract **IGRF2020.dat** from the zip file into your Navmaster folder.
7. Re-start Navmaster and the data will be available.

Alternatively, we may email you the file, in which case you can just proceed to Step 5 below.

Magnetic anomalies are often reported for specific regions of the world and these are usually printed on charts. This model cannot take into account the possibility or presence of magnetic anomalies.

For information on the limitations of this model please refer to <http://www.ngdc.noaa.gov/AGA/vmod/igrfhw.html>

Another update, which will be valid for a further five years, will be required for calculations beyond the end of 2024.

If you need further assistance, please contact PC Maritime:  
[support@pcmaritime.com](mailto:support@pcmaritime.com)