

# Potent v4.15.05 release notes

21 March 2016

## Features

### IGRF-12

Potent now uses the 12<sup>th</sup> generation of the International Geomagnetic Reference Field (IGRF) for inducing field calculations, allowing the IGRF to be calculated by extrapolation up to 1 January 2020.

Visit the IAGA Working Group V-MOD web site at <http://www.ngdc.noaa.gov/IAGA/vmod/> for more information.

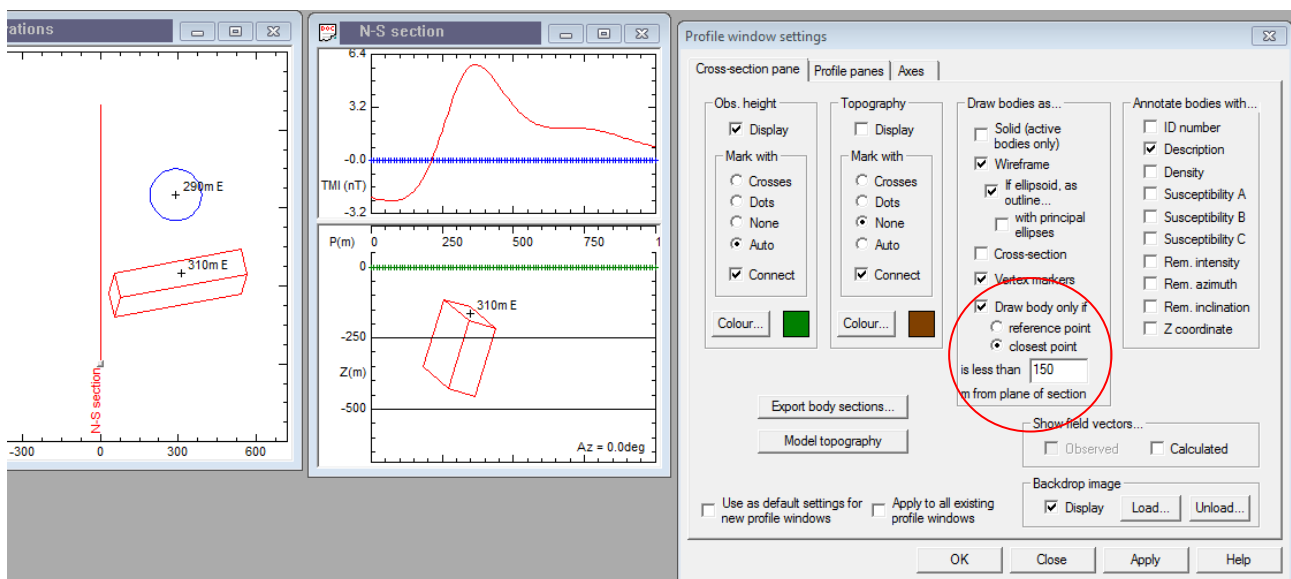
### Enter Koenigsberger ratio (Q)

In the **Physical Properties** dialog boxes the intensity of remanent magnetisation may now be entered as the Koenigsberger Ratio, Q, instead of Amps/m.

### Change to "Not drawn" body criteria

The **Draw only if less than...** option in the **Cross-section** tab of the **Profile window settings** dialog box has been extended to allow bodies to be excluded from drawing on the basis of the distance from the section of their closest extremity, rather than just the position of their Reference Points.

In this example the new **Draw body only if...** group of controls (circled in red) have been set so that only bodies for which the closest point to the section is less than 150m will be drawn. Therefore the red body is included, while the blue body is excluded.



Choosing the **reference point** option would replicate the behaviour of previous versions of Potent.

### Allow some dialog boxes to be resized

The **Edit model** and **Subset management** dialog boxes each have a tabbed list box that contains a list of values arranged in columns. These dialog boxes may now be resized to make more room for display of the values.

## Bug fixes

### "Not drawn" bodies detected on sections

If a body is not drawn on a section due to the **Body visibility distance** setting in the **Profile window settings** or **Down-hole window settings** dialog boxes, it can still be detected when the mouse pointer moves over the section. This could cause confusion in some situations. Two such situations are:

- If the reference points of two bodies are in the same position on the section, but one is not drawn due to the **Body visibility distance** setting for the window, right-clicking on the reference point of the displayed body might result in the display of the **Edit body** dialog box for the other (invisible) body.
- Similarly, if vertices of two polygonal prisms overlay each other, but one is invisible, then a vertex of the invisible body might be targeted by the **Body shape** tool.

Fixed. Bodies that are invisible for any reason are ignored by the mouse pointer.

### "Always show on profile plots" not working

The "Always show on profile plots" option in the General tab of the "body properties" dialog box was not working.

Fixed. If this option is checked, the body will be drawn on cross-sections regardless of the **Draw body only if less than...** distance shown in the **Cross-section** tab of the various **Window settings** dialog boxes.

### Fix broken Help link

Fixed Help link in **Set vertical TMI and Mz sensor spacing** dialog box.

### Line width not copied to cloned body

When a body was cloned (**Edit body** dialog box) the line width used for drawing the original body was not copied to the cloned body.

Fixed