



Changes to the MAGNETOMETER Driver

By Jerry Knisley

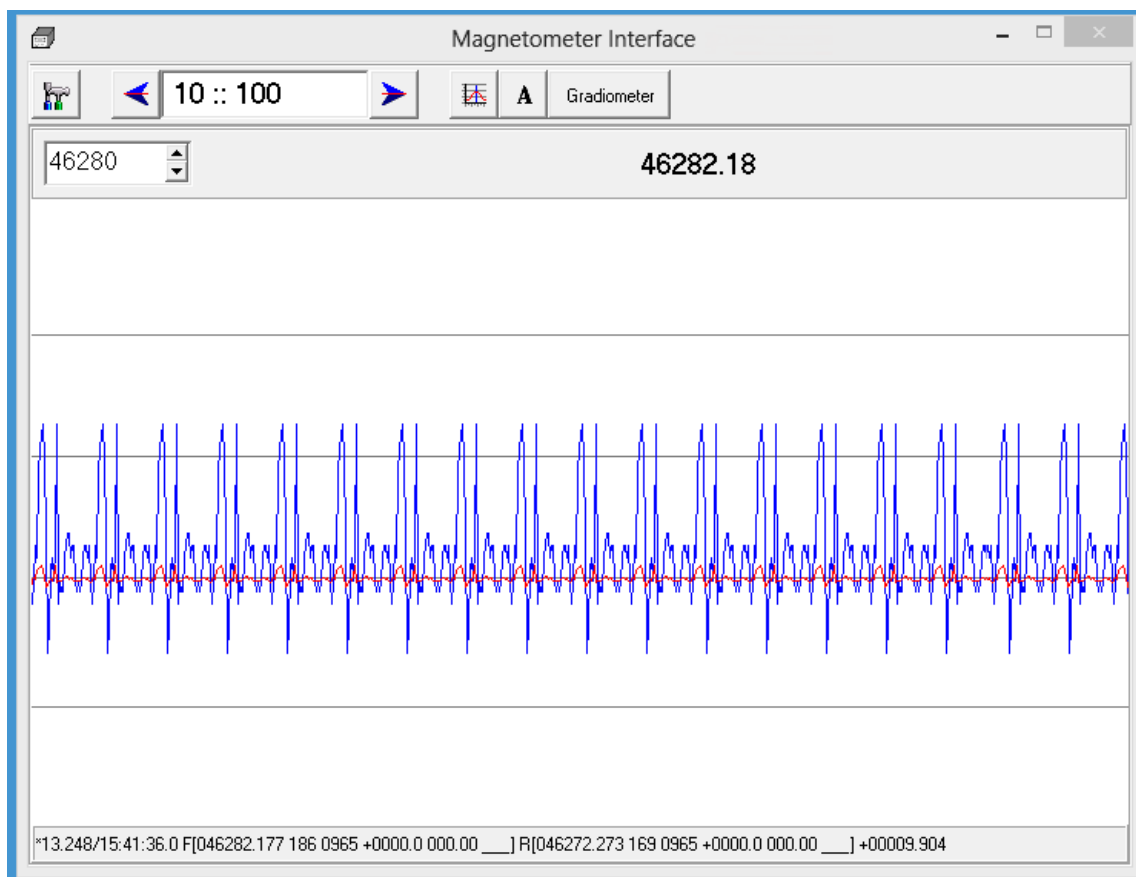
Recently I took a trip to Marine Magnetics for a meeting. During the visit, we discussed how HYPACK® can better treat magnetometer data.

HORIZONTAL SCROLLING FOR GAMMA

There were several areas that we identified as areas to update, but the one that made my to do list right away was to allow users to display the incoming gamma data in a horizontal chart instead of a vertical one. When I started the MAGNET driver, the only reference I had was an old surveyor that I know and the previous software I could find on the Internet.

It doesn't make sense to change the driver unless the old option remains, Figure 1 is a sample of the magnetometer data in a horizontal chart. The new data enters the chart on the left edge of the screen and flows to the right.

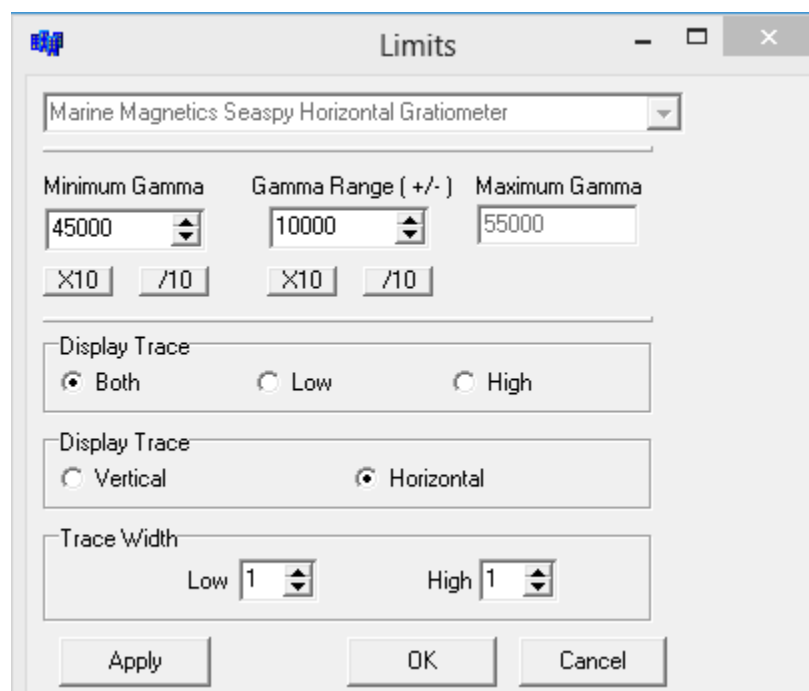
FIGURE 1. *Sample of the Magnetometer Data in a Horizontal Chart*



To change the direction there is a second Display Trace item in the Setup window Vertical and Horizontal options. This has the expected results. When the driver is closed, this value is

stored so that the next time you open the window the driver will remember the direction to show the data.

FIGURE 2. *Magnet Driver Setup Window*



SUPPORT FOR SEASPY HORIZONTAL GRADIOMETER

While I was in the driver making changes, I added support for the SEASPY HORIZONTAL GRADIOMETER. This device had a spot in the list, but was never fully implemented. Because the device is a dual magnetometer, the data received has two gamma values. In the main display, the gammas appear exactly the same, it is coming from the first gamma in the data string.

To see the separate gammas there is a new window named GRADIOMETER. In this window the gamma readings are displayed, green is the first unit and black is the second unit.

