

Determining Distance and Bearing while in Survey

By Roy Goyette

When conducting on site training for end user's one of the most frequently asked questions during the Survey part of our presentations is, "How do I measure the distance and direction to an object while in the Survey program." Many times during your survey you have a need for this information and, although the answer is a simply one, it's not so apparent to even experienced users who haven't used this function in some time.

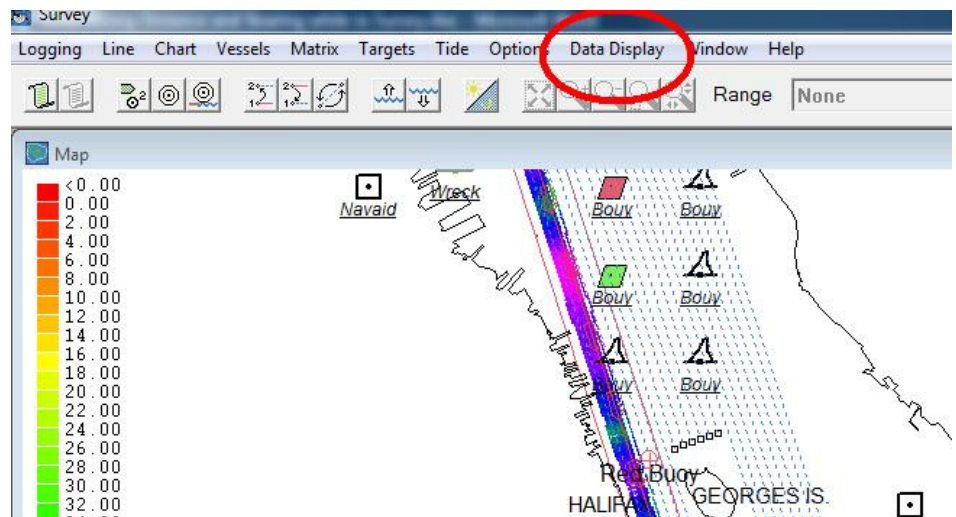


East	0.00
North	0.00
Speed	0.00
Hdg	0.0
Depth	0.00
Status	NOT LOGGING
File Name	
Tide corr.	0.00
Time	11:05:13
Final Elevation	0.00

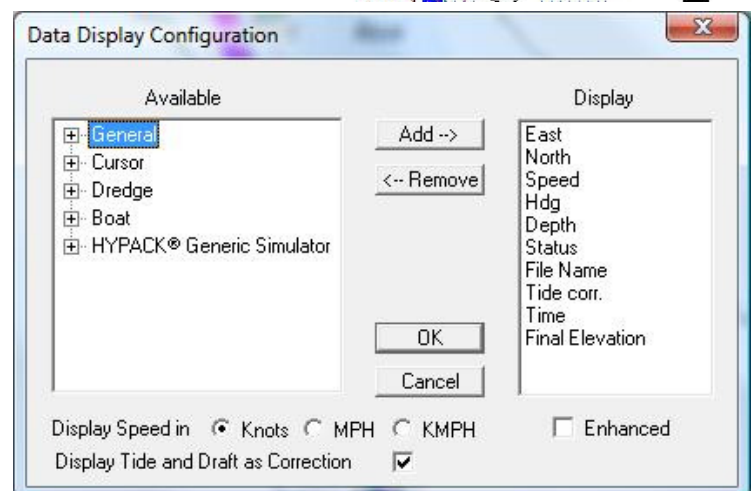
If you add Cursor North and Cursor East to your Data Display, you can click and drag your mouse and obtain a distance and bearing between two points on your Map in Survey.

To add these two functions to your Data Display:

1. **Click on the Data Display window** to make it the active window. When the Data Display window is active the words Data Display will appear on your menu bar at the top of the Survey window.
2. **Select DATA DISPLAY -CONFIGURE** and the Data Display Configuration window will open for you.

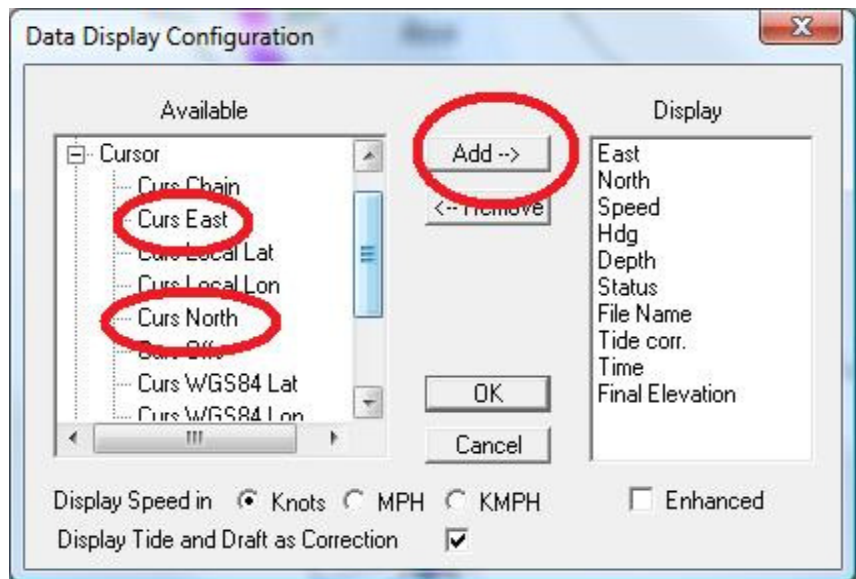


Like many of the other configuration windows in HYPACK®, the Data Display Configuration window shows items available to be added to your Data Display on the left side of the window while items already being displayed on the right side of the window. Click the plus sign next to a category the choices for that category will be displayed.



3. **Open the Cursor category** to reveal the Cursor East and Cursor North items.
4. For each item, simply **select the item in the Available column then click [Add]**. The item will be added to the Display list. These items appear in order in Survey's Data Display window.

Tip: You can do the same thing by double-clicking an item on the left to add it.

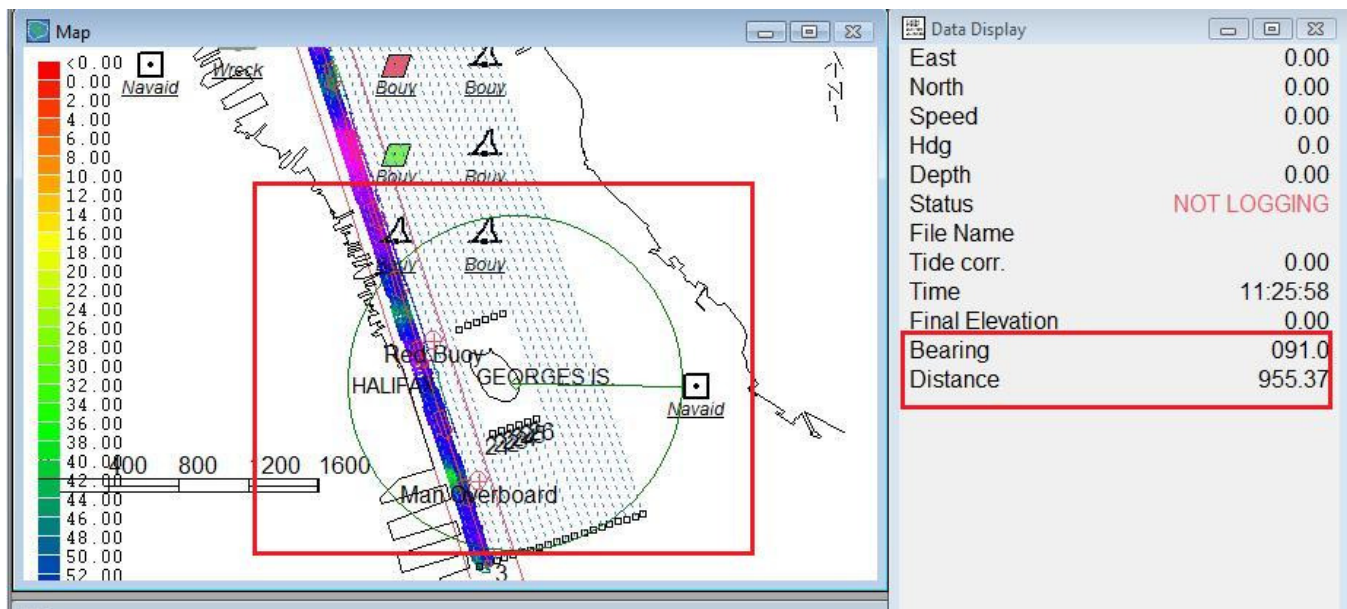


Data Display	
East	0.00
North	0.00
Speed	0.00
Hdg	0.0
Depth	0.00
Status	NOT LOGGING
File Name	
Tide corr.	0.00
Time	11:26:44
Final Elevation	0.00
Curs North	4942121.24
Curs East	457471.85

The illustration to the right shows the cursor North and cursor East after being added to your Data Display window. In normal mode they simply display position (X & Y) of your cursor on the map.

But if you left click on your Map and then drag your mouse the Data Display for Curs North and Curs East will change to Distance and Bearing, and on the Map window you will see a circle and a line will be drawn from where you clicked to where you dragged the mouse and the measurement will appear as Distance and Bearing items in the Data Display.

That's all there is to it. You can now click on an item in the map and measure the distance and the bearing to another item.



Measuring the distance and bearing from Georges Is to the Navaid