

MaxSea Ground Discrimination Module

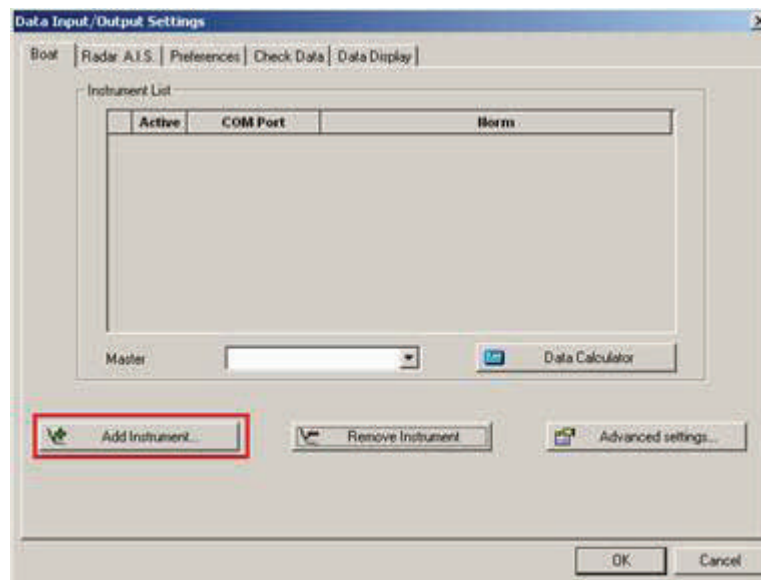
The MaxSea Ground Discrimination module allows the operator to record the type of seabed (rock, sand, mud) with the depth in PBG. The GDM show a 3D view of the bottom with a color corresponding to the type of seabed. Scallop, Crab, Lobster fishermen will find this very useful.

Please follow the instructions below to configure the Ground Discrimination. This example uses the Roxann hardware but this is exactly the same configuration for Seascan or JRC.

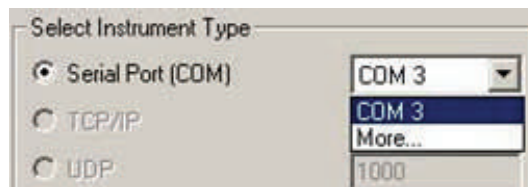
To connect the Roxann (or Seascan or JRC), just close MaxSea, plug the Roxann USB connector in the computer (or a serial connection). A virtual COM port will be created (COM3 for example). You need also a GPS connected to the computer (on COM4 for example)

Configure Roxann

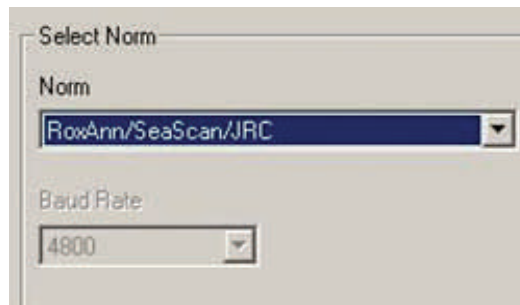
Open MaxSea, select "Data input output" in the "Utilities" menu.
First remove any instrument that could have been already configured then click on "Add Instrument"



Select the COM port number of the Roxann USB connector (COM3 in our example)



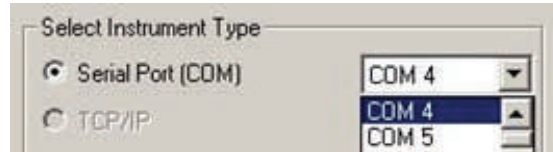
Click on "Next" and select the "Roxann/Seascan/JRC" Norm



Click on "Next" then "Finish"

Next Configure GPS Output

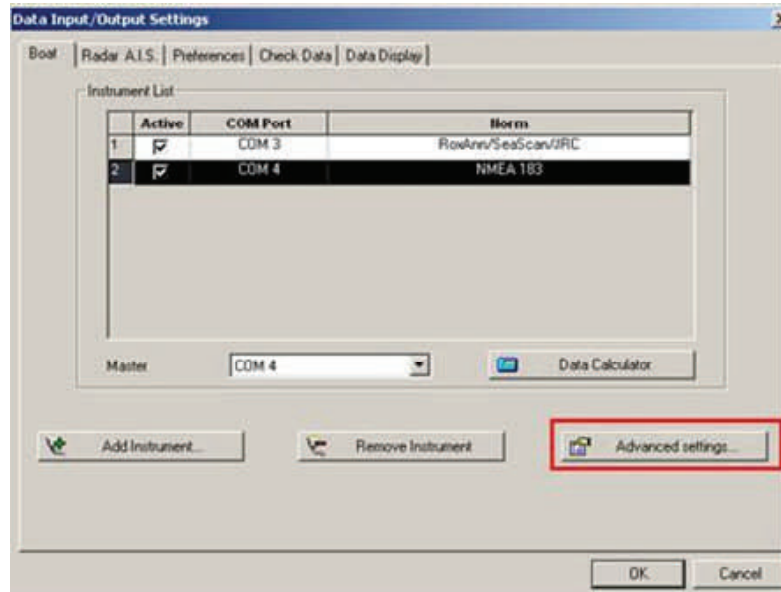
Click on "Add instrument" again and select the COM port of the GPS



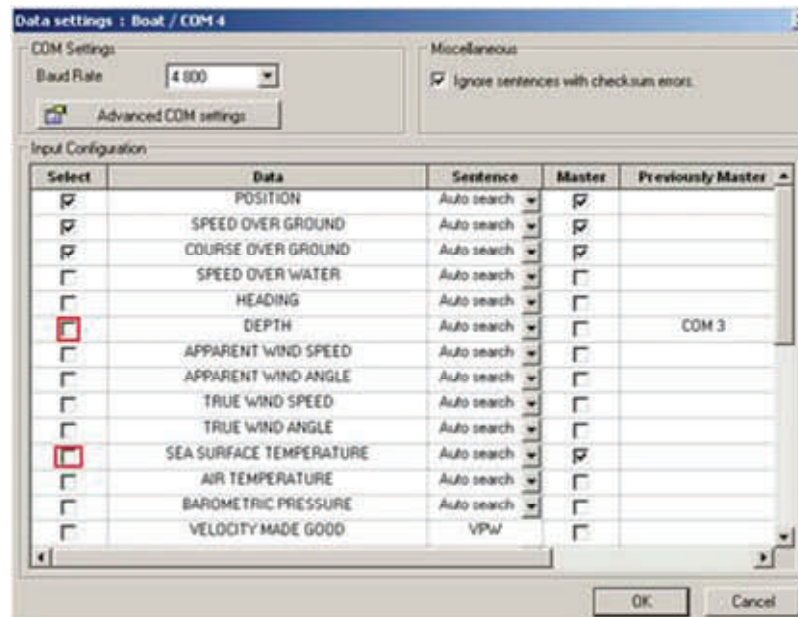
Click on "Next" and leave the norm to "NMEA 183"

Click on "Next" and "Finish"

To tweak the parameters, you can select the GPS COM port and click on "Advanced Settings"

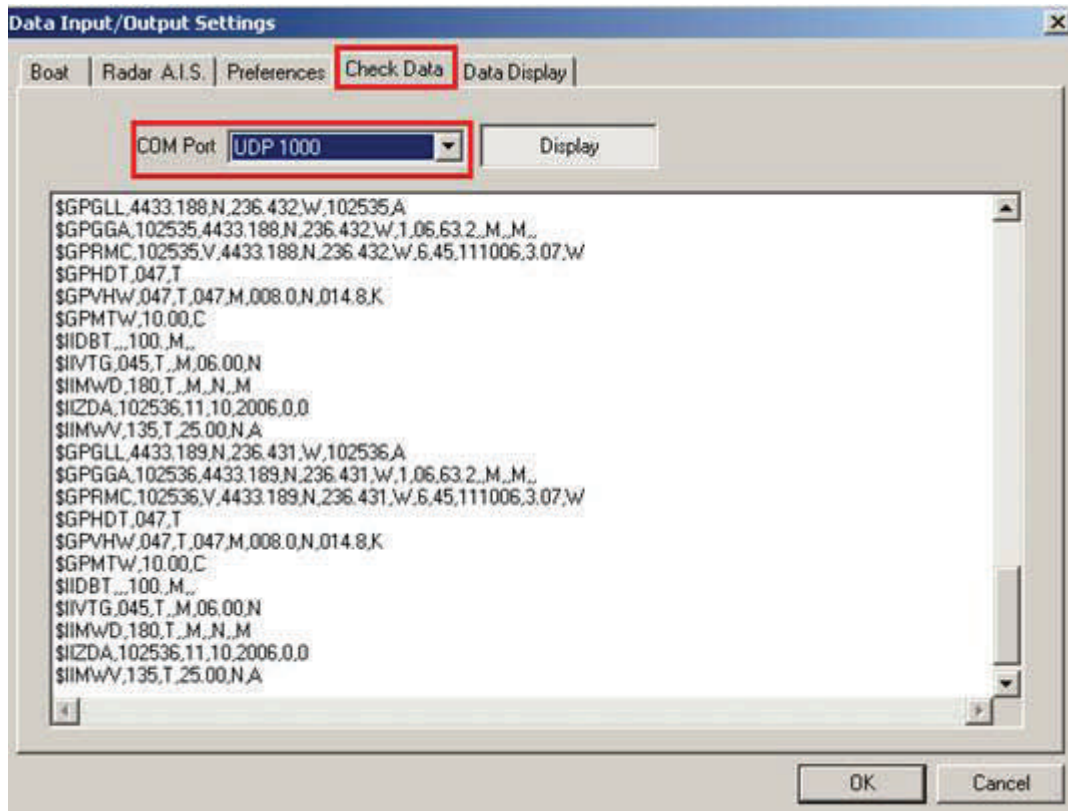


Just Check or Uncheck the data you want to receive (and process) in MaxSea. In this example, uncheck SST and Depth (that we do not receive from a GPS)



Click on OK

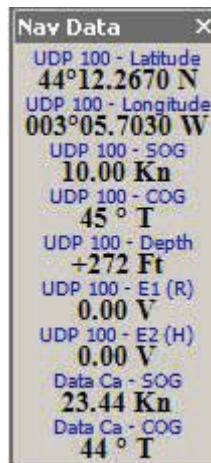
Note: You can check the data coming into the COM port directly into MaxSea (like Hyperterminal) to make sure that everything is OK (to make sure also that you configured the correct COM port). Just click on the "Check Data" tab and select the COM port you want to monitor.



Click on OK to close the data Input/Output

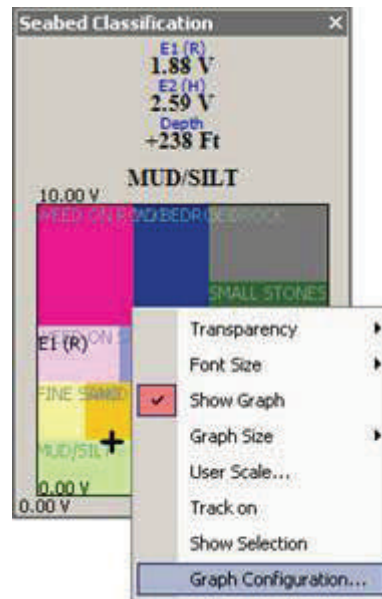
3) Look at the data:

You should now receive correct position. Depth (from Roxann) and E1/E2.
All of these parameters should appear in the NavData box (on the right)

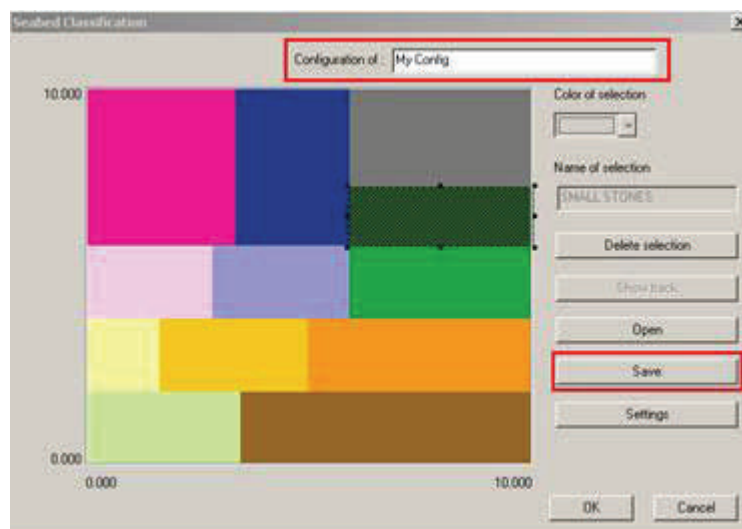


Configure the Graph (calibration)

To configure the graph just right click on the Graph and choose "Graph Configuration"

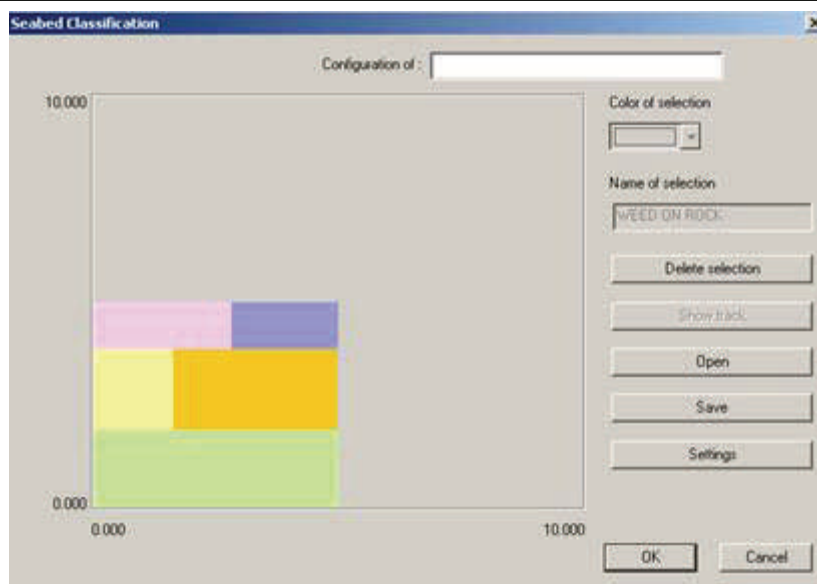


Put a distinctive name in the first line and click on Save (this will create a new Configuration file)



Just resize, delete, move, rename or create the boxes. If some boxes refuse to be resized, just move them first and try again. You can also right click on any box to enter the coordinate.

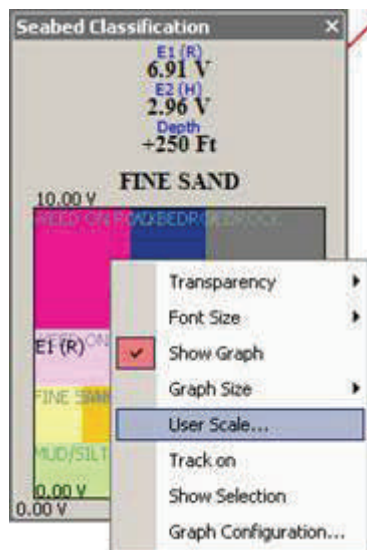
If the data you receive is only between 0 and 5 V, just put all the boxes between 0 and 5V (or delete the ones between 5 and 10V). Later, you will be able to change the scale of this graph.



Click on "Settings" to access the advanced parameters. You can decide to apply or not the "Display Law" (ON by default)

Click on OK to close the configuration.

If you want to change the scale (for 0-5V for example), right click on the graph (in the seabed classification window) and choose "User Scale"



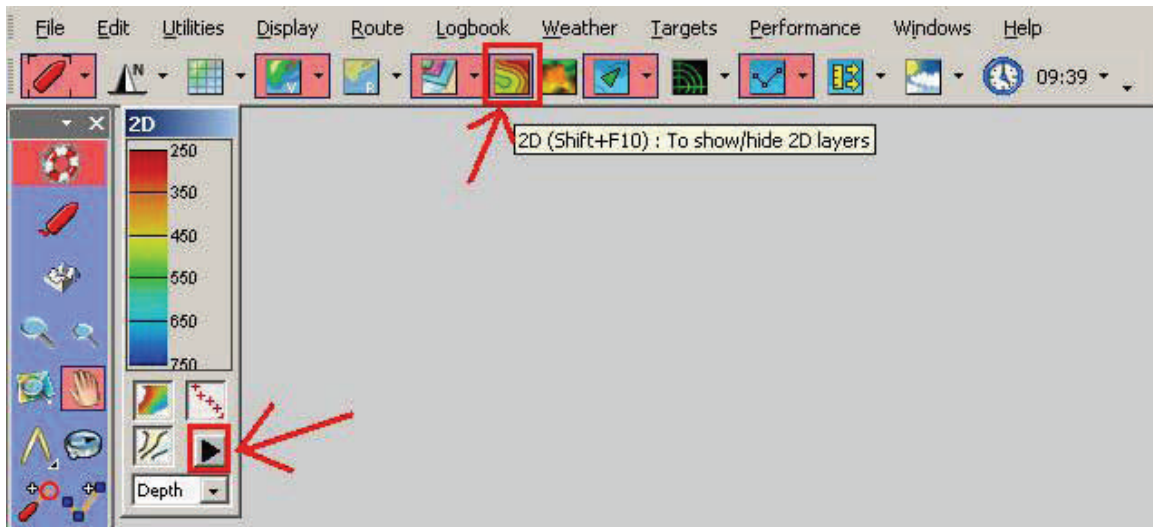
Record and view the data

To record the Data (Depth , E1 and E2), just enable PBG in the ToolBar (on the left). The data is recorded when the icon is surrounded with red.

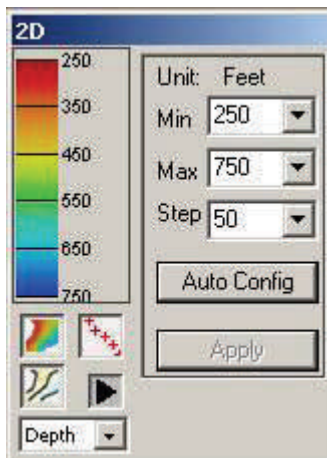


To display the data, click on the 2D layer in the ChartBar (top of the screen). A 2D color scale window should appear.

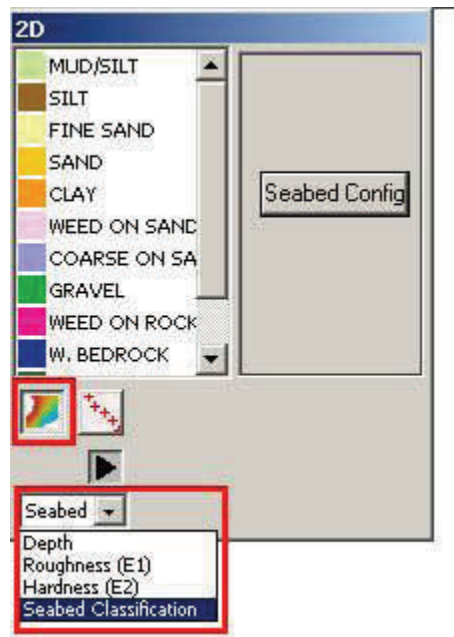
Click on the black arrow to expand properties



To configure automatically the color scale to the area, click on "Auto Config" then "Apply"



To display the seabed classification, just select it in the drop down menu and click on the color button (to attach color to seabed)



Note:

You can also display the cross (point where MaxSea recorded data). Just click on the icon right to the color button.

The raw data are recorded in the database. If you change some settings (Graph Configuration or Display Law) this has NO impact on the data recorded. Only on the data displayed. This allows making change and tweaking the graph later without altering the data.

Best regards,

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