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Subject: Radar Custom Guard zone instructions

- 1) Find a fairly stiff piece of clear plastic mylar and place it over the computer screen. Get the Windplot P-Sea Radar showing targets the way you want and place the plastic over the computer screen so it covers the two radar screens. Now outline the alarm zone with a felt pin and fill in the area where you want the guard zone to look at. Be sure not to include any stationary targets in the zone. The edge of the radar screen is right where the scan lights show up so turn on the green scan lights so you can see them and box in by drawing a line from one light to the next.
- 2) Stop the radars and open up Windows Paintbrush program. Select the paint brush menu "**Image**" and then select "**Attributes**". Set BOTH the Width and Height to the same as the pixel size of the radar screen (240 or 480) and click on OK.
- 3) Use the fill function to set the **background to solid black**. Place one of the mylar radar outlines over the paintbrush drawing area. It should match up with the outline of the radar. Now use the drawing functions to fill in the alarm zone area you outlined with the **dark red** color. Any target that gets in the red area will trigger the alarm. Dark red is the **third box from the top-left** of the paintbrush color toolbar.
- 4) Now save this file as a **16 color** bitmap image with a name of **ALARMZONE.BMP** in the P-Sea Radar **program's main directory** usually "PC-PLOTT".
- 5) Get the WindPlot P-Sea radar running again. Don't worry if you do not see the outline right away, as you should see the full outline in the radar screen **AFTER** the first sweep.
- 6) Start the alarm process by clicking on any part that is red (zone area) then click the alarm bell icon at the top of the radar display, drag the yellow cursor icon counter-clock wise a little and click the bell icon again to start the alarm.
- 7) Click on "Adjustments" then "Chg.COM Ports" on the plotter window side and set the "MASTER OUTPUT" to the proper COM number and click the check box so it is on. Connect a transistor relay to the COM port you selected. Pin 5 is ground and pin 4 is the DTR signal we use to trigger the alarm on a 9 pin connector. The relay will stay on so long as there is a target in the guard zone.
- 8) You can clear the alarm zone via the RADAR "**VIEW**" menu. You will find the (un)Load radar zone at the bottom of the view menu. You can also set the **target alarm sensitivity** in the Radar "**Adjust**" menu. This is the number of sweeps that a target has to appear before it is considered a target. It also effects how fast it drops out.