

# **Underway Geophysics Lab Cookbook**

## **SUMMARY OF UNDERWAY LAB START-UP FOR TRANSITS (FOR LO/ALO)**

**January 2001**

- 1. Underway tech should provide you with a new transit number, a starting depth range, a maggie value from end of last transit, an updated Excel depth log on WinFrog2 and a supply of transit log sheets on a clipboard.**
  - 2. Stop the event collection on WinFrog and start a new file for the transit. Do not forget to hit the green button!**
  - 3. Open Excel depth log (eg.e depth199.xls).**
  - 4. Turn on the 3.5 and 12.0 kHz echosounders and two EPC recorders.**
  - 5. Hand annotate recorders with the following →**
- |                         |
|-------------------------|
| <b>Start Line #</b>     |
| <b>Leg #</b>            |
| <b>Julian Date, GMT</b> |
| <b>Recorder Name</b>    |
| <b>Range</b>            |
- 6. Start Labview UW Watch Program on WinFrog2.**
  - 7. Enter new Line Number (e.g. L7T).**
  - 8. The initialization of the maggie will fail. Say OK.**
  - 9. Click Depth Check button on the 12.0 PDR screen and then click on current range on the 3.5 PDR screen.**
  - 10. Go to Annotation tab. Click the Annotate button for both the 12.0 and the 3.5 records.**
  - 11. Wait a few minutes to see annotation appear on the records. The delay should be 100ms on both recorders.**
  - 12. Call Bridge to get OK to deploy maggie. Deploy maggie. When maggie is fully out turn off the maggie winch breaker box on the fantail and then turn on maggie power switch in the lab.**
  - 13. Tune the maggie on the WinFrog1 machine by going to I/O devices>Config.**
  - 14. Set tuning to manual and enter the number of gammas for your region of the earth (UW tech should have given you a starting value). Click ok.**

- 15. Check that the Signal level is in the 200 range. Keep adjusting the tuning until the signal level is as high as you can get it. The adjustment should be no higher than +5K gamma.**
- 16. Go back to UW Watch Program on WinFrog2. Select Initialize at the top menu bar. Data should begin to plot on the maggie screen.**
- 17. Go back to 12.0 PDR tab. Click on the Depth Check button again. Annotate record. Delay should be 100ms.**

**If you have any problems, read the long version of this manual. More problems? Read User's Guide to the Underway Watch Application. Still no good...go find the UW tech.**