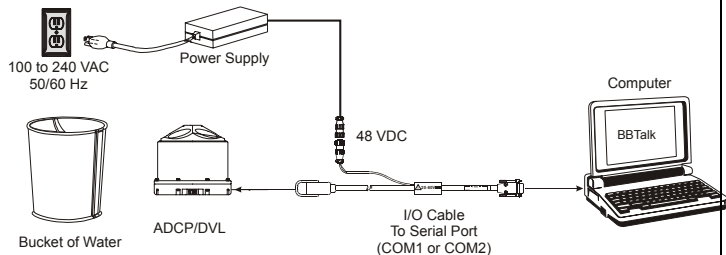


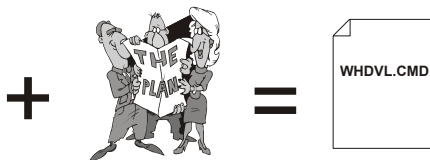
Navigator Quick Reference Card



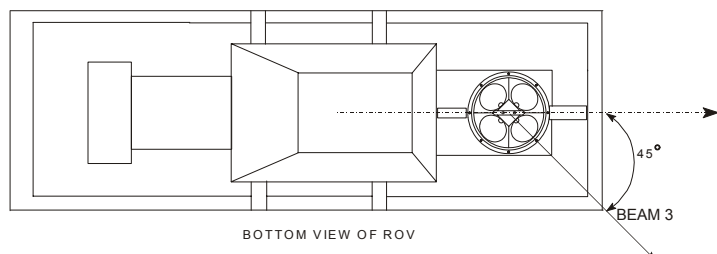
Step 1. Test the ADCP/DVL using *BBTalk*. Use the Deployment Checklist (below, right) to verify that the ADCP/DVL is ready for the deployment.

REVIEW

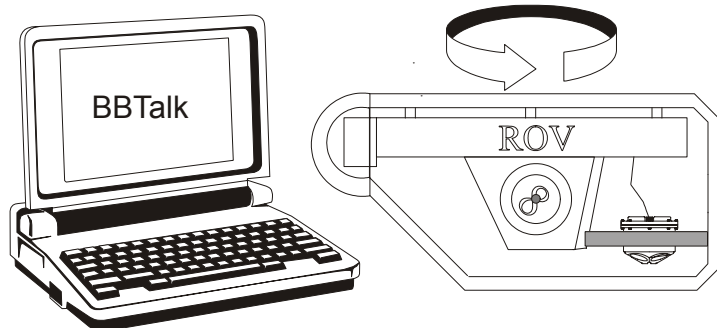
REF Layer On/Off
Ship or Earth coordinates
Salinity
Data Output Structure
EA and EB command setting



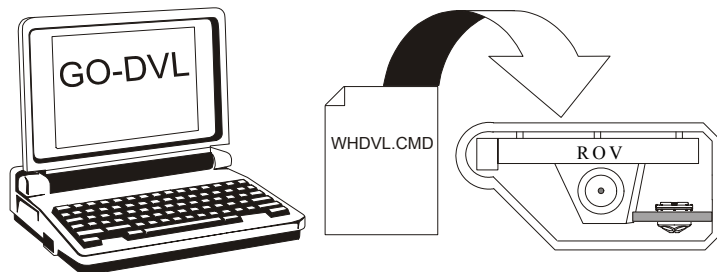
Step 2. Review the deployment parameters in the command file WHDVL.CMD.



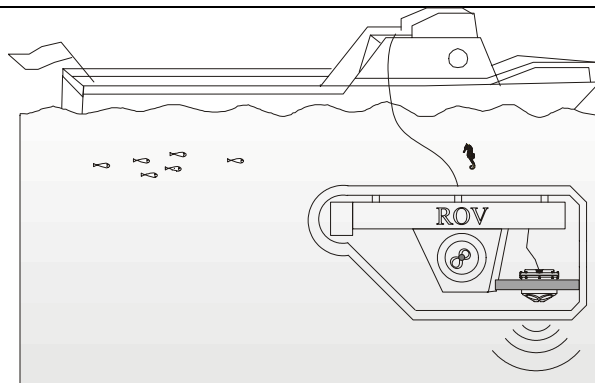
Step 3. Install and align the ADCP/DVL on the vehicle.



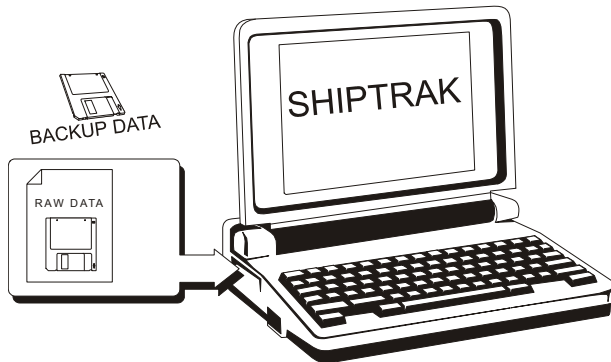
Step 4. Field Calibrate the compass (if being used).



Step 5. Use *GO-DVL* to send the commands from WHDVL.CMD to the ADCP/DVL. *GO-DVL* automatically sets the ADCP/DVL ready for turnkey operation.



Step 6. Deploy the ADCP/DVL. Turn on power to the ADCP/DVL. Start collecting data.

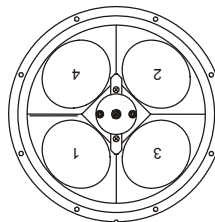


Step 7. Use *SHIPTRAK* to display and store data in real-time or store data in the ROV's navigation computer. *SHIPTRAK* can be used to display PD0 format data. Always backup your data.

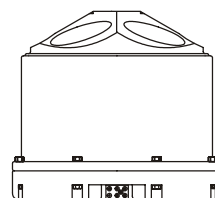
Deployment Checklist



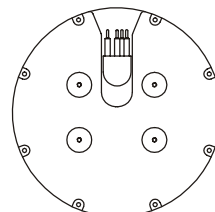
VISUALLY INSPECT THE ADCP/DVL



URETHANE TRANSDUCER FACES
REMOVE BARNACLES AND
CHECK FOR CRACKS



HOUSING / TRANSDUCER / END-CAP
CHECK FOR CRACKS
CHECK O-RINGS AND MOUNTING
HARDWARE ARE INSTALLED
CHECK ANODES
CHECK PAINT



ELECTRONICS
CHECK ALL HARDWARE
IS TIGHT

I/O CABLE CONNECTOR
CONNECT I/O CABLE

Navigator Quick Reference Card

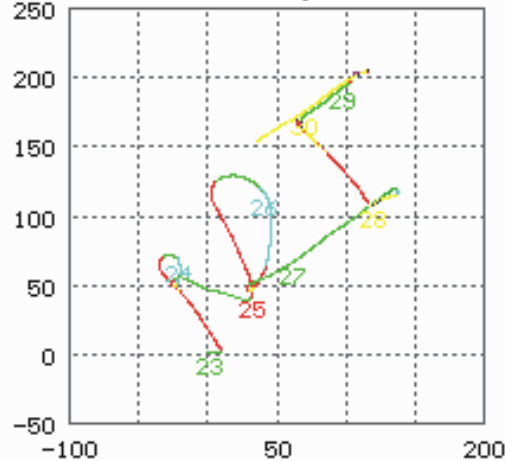
Navigator Ship Track Version X.02
Copyright (c) 1996, RD Instruments

07/24/1996
14:30:19.39

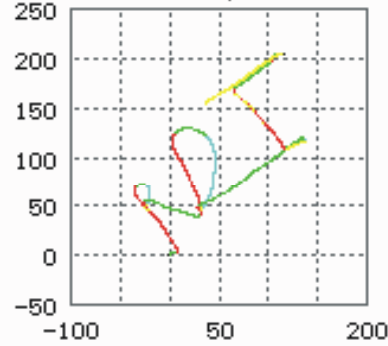
HELP

C Clear dead reckoning
Alt-X Exit SHIPTRAK
Arrows ... Move the user shiptrack
[,] Change animation scale
+, - Change user shiptrack scale
* Toggle user minute labels
<F1> More Help

User-Defined (length in meters)



Auto Shiptrack



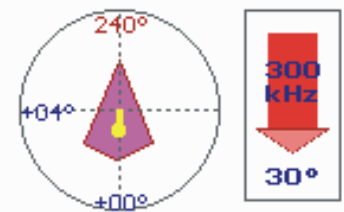
Play-Back
RDI.000

EnsN 2214
BIT 0
SS 1502
Sali 0
Temp 27.1

Crs Good 13.61
Up -0.55
Time 00:07:52.68



Orientation



SPEED 3.1 kts

Instrument Depth (m)

0.0

Altitudes (m) 1 2 3 4

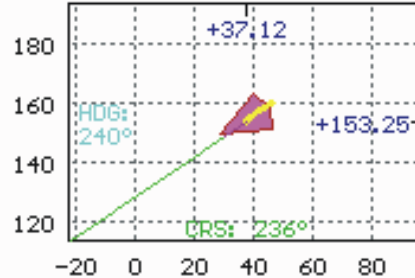
14.96

17.45

13.68

15.52

Dist Good (m): 157.68



Distance Travelled (m): 799.20

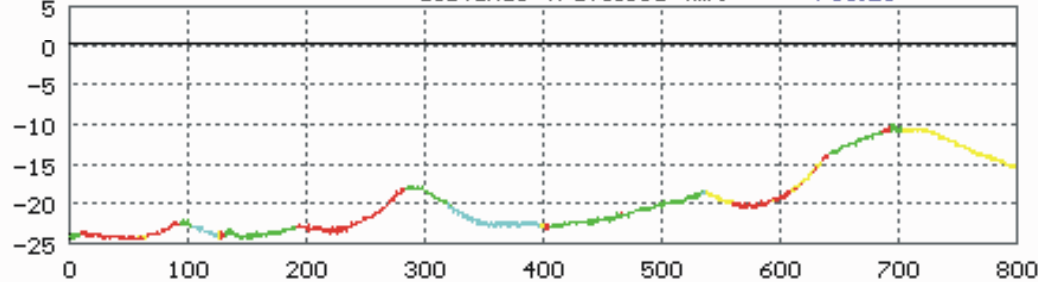


Figure 1. SHIPTRAK Display

Program start:

Real-Time : GO-DVL e

Playback : SHIPTRAK k filename

General Commands:

} : Accumulate next ensemble velocity to dead reckoning.
{ : Go back to previous ensemble. Clear screens. Does NOT zero distances.
C : Zero distances.
g : Go to first ensemble. Zero Distances.
, : Change animation scale.
* : Toggle user minute labels.
l : Help.
aX : Exit SHIPTRAK.
0 : Accumulate automatically (no pausing).
1 : Accumulate automatically (0.5 second pause).
2 : Accumulate automatically (1 second pause).

Automatic accumulation occurs until either of the following events occur.

- The end of the file is reached.
- A valid keystroke is pressed ({, }, C, g).

User defined SHIPTRAK screen

+ - : Zoom in/out user defined screen.
x z w y : Move graph.