



EB-Command

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Abstract

The sign of the EB command entry is documented incorrectly.

Instrument/Program Affected

Workhorse, Rio Grande, Long Ranger, Ocean Surveyor, BroadBand DR/SC/VM, TRANSECT, VmDas, WinRiver, and BBLIST

Description

The correct way to enter the magnetic offset in the BroadBand (phase 2 and 3), Workhorse, and Ocean Surveyor ADCPs is to enter the **same** sign as the magnetic declination. This will also be true for what is entered as the corrections done in TRANSECT, VmDas, WinRiver, and BBLIST.

Example: A bottom-mounted ADCP is receiving heading from its internal compass. A magnetic declination map for the deployment area shows a declination of W3.5° (–3.5°). To counteract the effects of this magnetic field, you must enter a heading bias value of –3.5°. To convert –3.5° to an EB-command value, multiply the desired bias angle in degrees by 100: $EB = -3.5 \times 100 = -350 = EB-350$.



NOTE. This FSB supercedes all other documentation that recommends entering the opposite sign as the magnetic declination.



NOTE. The Ocean Surveyor uses the EV command for magnetic declination correction.

Solution/Action

Short-Term Solution

Use the **same** sign for the EB and EV (Ocean Surveyor only) commands in any configuration or command files used by the ADCP.

Long-Term Solution

All documentation will be corrected when they are revised.