

# SeaSonde10 Vector Indicator Flag for LLUV, Combine Grid *Jan 2, 2004*

The Vector Indicator Flag is a composite value used by the Combine Grid and the LLUV files to indicate extra information about individual current vectors.

The Flag is a composite of bit values where each bit has a particular meaning.

- Bit0 (+1) indicates that the grid point was deleted in SeaDisplay. These points will not exist in standard Total Vector Files.
- Bit1 (+2) indicates that the grid point is near the coastline.
- Bit2 (+4) indicates that the grid point contains a point measurement like an ADCP.
- Bit3 (+8) indicates that the grid point had no current result from the Combining Processing. These points will not exist in standard Total Vector Files.
- Bit4 (+16) indicates that the current vector was the result of interpolating across a baseline area.
- Bit5 (+32) indicates that the vector result exceeded the Maximum current limit. These points will not exist in standard Total Vector Files.
- Bit6 (+64) indicates that the vector result was invalid value (Infinity, Nan). These points will not exist in standard Total Vector Files.
- Bit7 (+128) indicates that the vector is out of bounds. For radial vectors this means that the vector was outside the AngSeg filter area. Not used for Total Vectors.
- Bit8 (+256) indicates that the Total vector does not have enough angular resolution from the contributing radials.
- Bit9 (+512) is reserved as undefined for now.
- Bit10(+1024) is reserved as undefined for now.

SeaDisplay has options to toggle viewing of bit7 (+128) for radials

Combining will not use radial vectors with these flags

Bits (0,3,5,6,7,8,9,10)

Values (+1,+8,+32,+64,+128,+256,+512,+1024)