

## NAVO-NGA-NOAA-SIO DATA EXCHANGE FORMAT

Data exchange format discussed during a telecon on September 18, 2006. The format is still in discussion and subject to revision.

The file is ascii and the precision of the data is variable and depends on the precision of the original numbers. There is white space between numbers.

time	time since an epoch (sec) or record sequence number
longitude	decimal degrees (+/- 180.)
latitude	decimal degrees (+/- 90.)
depth	depth (-) below sea level (corrected meters)
sigma_h	estimated uncertainty in navigation (m) (0-no estimate; -N data from grid meters)
sigma_d	depth uncertainty (m) (-1-no estimate yet; 9999-flagged data; 9998-duplicate)
source_id	unique ID number for each source (0-65535). (NAVO uses 0 to 16383 NGA uses 16384 to 32767 NOAA uses 32768 to 49151 SIO uses 49152 to 65535)
pred_depth	predicted depth estimate (m) used for flagging outliers (used internally at SIO for editing)

example from a multibeam grid from an SIO cruise AVON09MV:

```
1 -124.396004 38.5931015 -3568.30005 0 -1 49153
2 -124.387001 38.5908012 -3558.21997 0 -1 49153
3 -124.379997 38.5918999 -3561.67993 0 -1 49153
4 -124.370003 38.5908012 -3573.03003 0 -1 49153
```