

# SEATrials

DOS based Vessel Speed Calculation Software

SEATrials utilizes raw DGPS position updates to calculate vessel speed as a function of distance travelled over time. Mean speeds over measured distances in different directions may be logged and used for vessel log calibration.

The screenshot displays the main interface of SEATrials. At the top, there are three columns of data: current position (Latitude 56° 00.47481' N, Longitude 001° 00.63435' W, Heading 54.26), units (Miles, D.A.C 0.4781, D.T.G 0.6335, D.C.C -0.0310), and start/stop coordinates. Below this is a speed graph showing a time series plot of speeds. To the right is a track plot showing a green arrow indicating the vessel's path. At the bottom, there is a control panel with function keys (Esc, F1-F10) and their corresponding actions (Exit, Fixing, Graph, Speed, Point, Line, Edit, Log, I/O, Post).

Online display of speed graph, track plot and program set up

### Real Time Display:

- Vessel position and track over pre-defined sail lines.
- Raw GPS position and quality.
- Distance travelled along track and to end of line.
- Real time calculated speed.
- Measured distance and average speed during run.
- Time series plot of speeds attained during run.
- Logging status

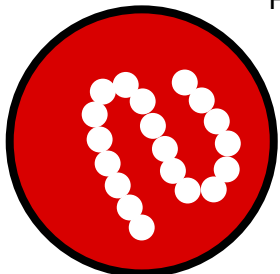
The screenshot shows the post-processing interface. At the top, there is a 'Speed Trials' menu with options for One, Two, Three, Four, Knots, and Reset. Below this is a table of speed trial data. At the bottom, there is a speed graph showing a time series plot of speeds. At the very bottom, there is a control bar with instructions: 'RETURN' - Ok, 'ESC' - Cancel, 'F1' - Help, 'SPACE' - Toggle Options.

Speed Trial	Bearing	Miles	Metres	Knots	m/s	Sample
15-Sep-00 09:00	29.8	0.0087	16.23	19.510	10.057	16
15-Sep-00 09:57	28.7	0.5289	981.44	19.422	10.012	925
15-Sep-00 09:08	35.5	0.0188	34.94	19.373	9.986	36
15-Sep-00 09:16	31.2	0.0102	18.95	19.369	9.984	20

Post processing graph of speed trial run. Number two of four

### Configurations:

- Sail line or Point mode.
- Metres or miles, msec<sup>-1</sup> or knots.
- Graph plot dimensions
- Line editing.
- Logs event positions during run
- Post Processing of up to four lines.



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