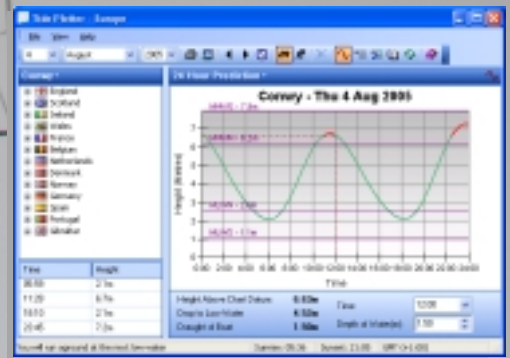


User manual Tide Plotter



Corwy - August 2005

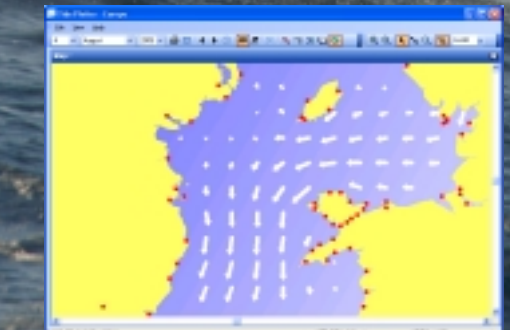
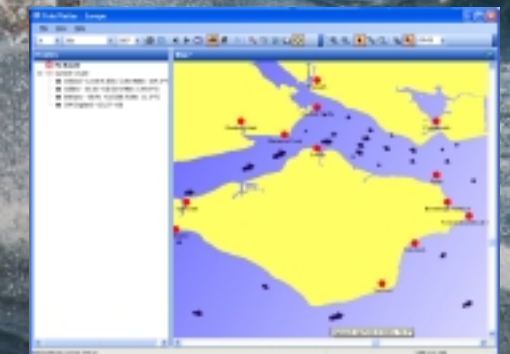
Day	Time	Height
01	00:00	2.6m
02	02:00	6.5m
03	08:00	2.6m
04	14:00	6.7m
05	20:00	2.6m
06	02:00	6.5m
07	08:00	2.6m
08	14:00	6.7m
09	20:00	2.6m
10	02:00	6.5m
11	08:00	2.6m
12	14:00	6.7m
13	20:00	2.6m
14	02:00	6.5m
15	08:00	2.6m
16	14:00	6.7m
17	20:00	2.6m
18	02:00	6.5m
19	08:00	2.6m
20	14:00	6.7m

August 2005

Day	Time	Height
01	00:00	2.6m
02	02:00	6.5m
03	08:00	2.6m
04	14:00	6.7m
05	20:00	2.6m
06	02:00	6.5m
07	08:00	2.6m
08	14:00	6.7m
09	20:00	2.6m
10	02:00	6.5m
11	08:00	2.6m
12	14:00	6.7m
13	20:00	2.6m
14	02:00	6.5m
15	08:00	2.6m
16	14:00	6.7m
17	20:00	2.6m
18	02:00	6.5m
19	08:00	2.6m
20	14:00	6.7m

August 2005

Day	Time	Height
01	00:00	2.6m
02	02:00	6.5m
03	08:00	2.6m
04	14:00	6.7m
05	20:00	2.6m
06	02:00	6.5m
07	08:00	2.6m
08	14:00	6.7m
09	20:00	2.6m
10	02:00	6.5m
11	08:00	2.6m
12	14:00	6.7m
13	20:00	2.6m
14	02:00	6.5m
15	08:00	2.6m
16	14:00	6.7m
17	20:00	2.6m
18	02:00	6.5m
19	08:00	2.6m
20	14:00	6.7m



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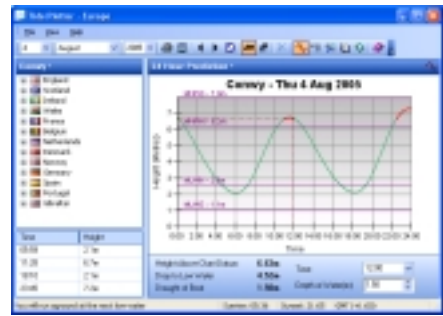
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Covey - August 2005

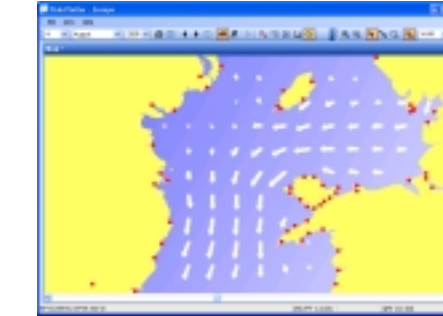
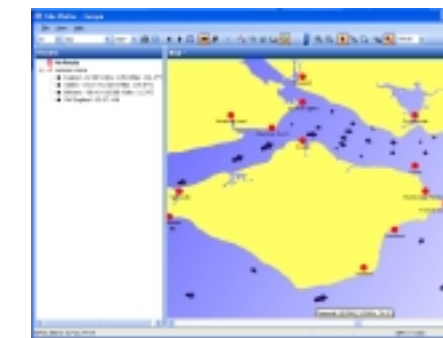
01	01:00 4.8m 02:00 5.1m 03:00 5.4m	02	02:00 4.9m 03:00 5.2m 04:00 5.5m	03	03:00 5.0m 04:00 5.3m 05:00 5.6m	04	04:00 5.1m 05:00 5.4m 06:00 5.7m	05	05:00 5.2m 06:00 5.5m 07:00 5.8m
06	06:00 5.3m 07:00 5.6m 08:00 5.9m	07	07:00 5.4m 08:00 5.7m 09:00 6.0m	08	08:00 5.5m 09:00 5.8m 10:00 6.1m	09	09:00 5.6m 10:00 5.9m 11:00 6.2m	10	10:00 5.7m 11:00 6.0m 12:00 6.3m
11	11:00 5.8m 12:00 6.1m 13:00 6.4m	12	12:00 5.9m 13:00 6.2m 14:00 6.5m	13	13:00 6.0m 14:00 6.3m 15:00 6.6m	14	14:00 6.1m 15:00 6.4m 16:00 6.7m	15	15:00 6.2m 16:00 6.5m 17:00 6.8m
16	16:00 6.3m 17:00 6.6m 18:00 6.9m	17	17:00 6.4m 18:00 6.7m 19:00 7.0m	18	18:00 6.5m 19:00 6.8m 20:00 7.1m	19	19:00 6.6m 20:00 6.9m 21:00 7.2m	20	20:00 6.7m 21:00 7.0m 22:00 7.3m

Chart Interval for Application

Application	Chart Interval	Chart Interval	Chart Interval
Application 1	1.0M	1.0M	1.0M
Application 2	1.0M	1.0M	1.0M
Application 3	1.0M	1.0M	1.0M
Application 4	1.0M	1.0M	1.0M
Application 5	1.0M	1.0M	1.0M
Application 6	1.0M	1.0M	1.0M
Application 7	1.0M	1.0M	1.0M
Application 8	1.0M	1.0M	1.0M
Application 9	1.0M	1.0M	1.0M
Application 10	1.0M	1.0M	1.0M

Data Table

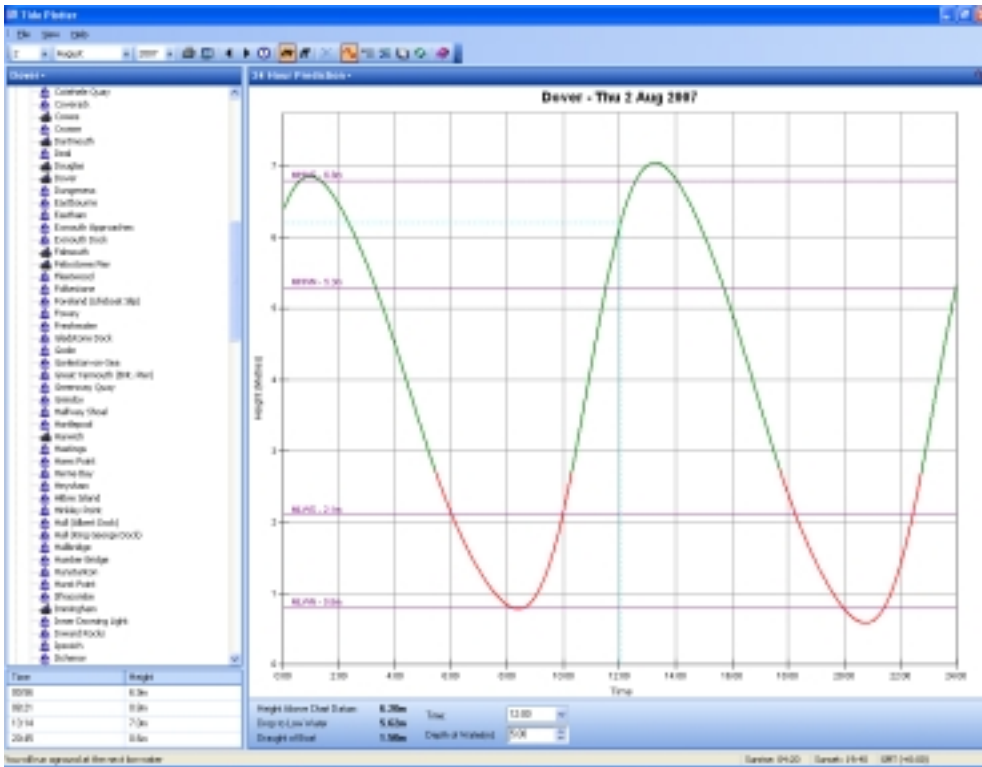
Time	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6
00:00	1.0	2.0	3.0	4.0	5.0	6.0
01:00	1.1	2.1	3.1	4.1	5.1	6.1
02:00	1.2	2.2	3.2	4.2	5.2	6.2
03:00	1.3	2.3	3.3	4.3	5.3	6.3
04:00	1.4	2.4	3.4	4.4	5.4	6.4
05:00	1.5	2.5	3.5	4.5	5.5	6.5
06:00	1.6	2.6	3.6	4.6	5.6	6.6
07:00	1.7	2.7	3.7	4.7	5.7	6.7
08:00	1.8	2.8	3.8	4.8	5.8	6.8
09:00	1.9	2.9	3.9	4.9	5.9	6.9
10:00	2.0	3.0	4.0	5.0	6.0	7.0



An Overview

This User Guide takes you through the many features of Tide Plotter. A quick guide of the main features are shown below.

1



Tide graph. This screen gives the height at any time during a 24 hr period. With the depth of water specified it will also calculate either how much water will be under the boat at LW, or, if you are likely to take the ground the time of grounding and floating off.

2

Port Name	Date	Time Zone	HWLW (1)	HWLW (2)	HWLW (3)	HWLW (4)	Time	Height
Galtsash	14 Jun 2007	GMT (+0:00)	04:49 (5.15m)	10:48 (1.23m)	17:15 (5.25m)	23:14 (1.14m)	12:00	1.73m
Galtsash	15 Jun 2007	GMT (+0:00)	05:48 (5.21m)	11:38 (1.13m)	18:03 (5.36m)	23:14 (1.14m)	12:00	1.18m
St Marys	15 Jun 2007	GMT (+0:00)	04:25 (5.43m)	10:58 (0.96m)	18:48 (5.61m)	23:19 (0.87m)	12:00	1.37m
St Marys	15 Jun 2007	GMT (+0:00)	04:25 (5.43m)	10:58 (0.96m)	18:48 (5.61m)	23:19 (0.87m)	09:00	1.04m
Dagriban Head	02 Aug 2007	GMT (+0:00)	01:42 (5.54m)	07:42 (4.01m)	13:58 (0.79m)	20:06 (4.16m)	12:00	1.14m
Carwickbegus	02 Aug 2007	GMT (+0:00)	03:48 (3.47m)	07:18 (0.14m)	13:20 (3.14m)	19:19 (0.42m)	12:00	2.02m
Ambleth	02 Aug 2007	GMT (+0:00)	02:21 (7.55m)	08:53 (0.02m)	12:45 (7.05m)	19:04 (1.12m)	12:00	8.01m

Build up your own log of tide details for the places and days of your choice. Ideal for planning a trip

3

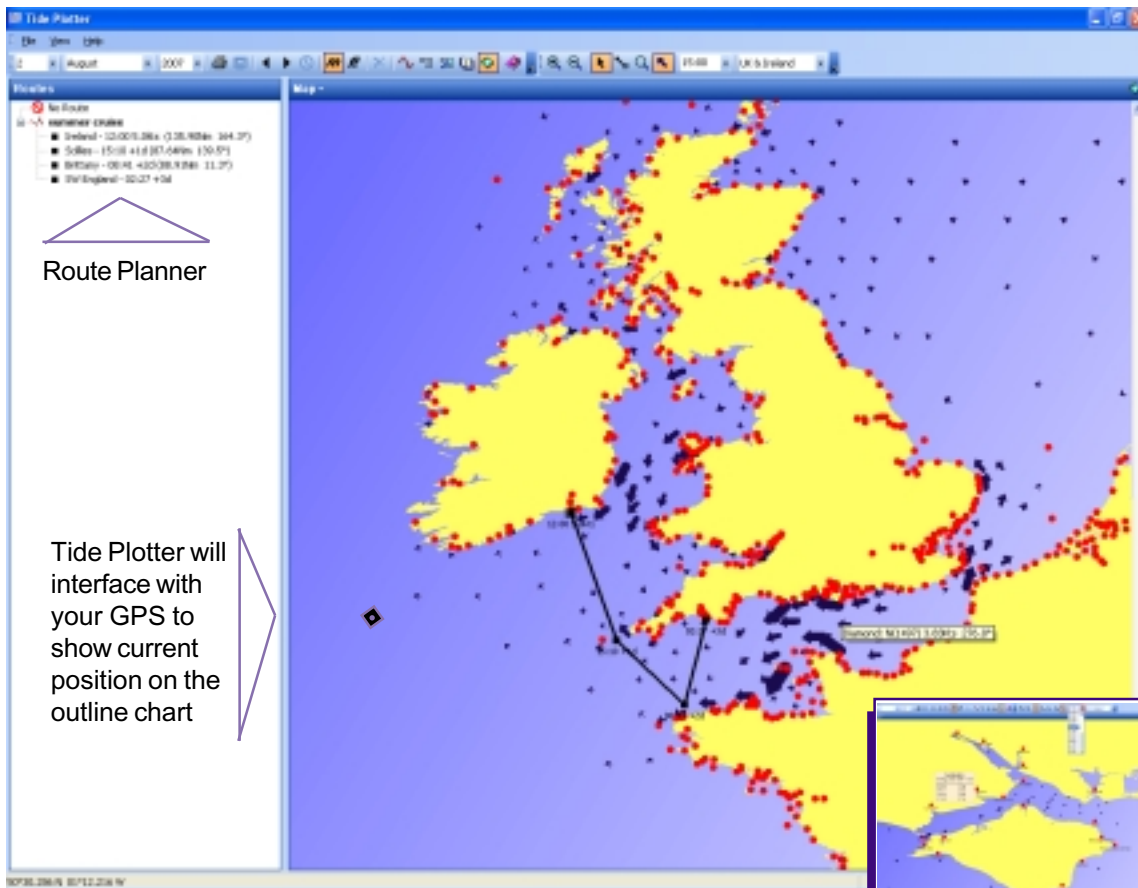
Monthly Tide Tables - Dover - August 2007

Day	Time	Height	Day	Time	Height	Day	Time	Height
01	00:18	6.8m	02	00:36	6.9m	03	01:28	6.9m
04	02:22	6.8m	05	03:12	6.4m	06	04:09	6.0m
07	05:10	5.6m	08	06:02	4.2m	09	07:02	2.9m
10	08:02	1.6m	11	09:02	0.3m	12	10:03	1.3m
13	11:01	1.3m	14	12:02	1.9m	15	13:01	2.9m
16	14:00	4.1m	17	15:00	6.4m	18	16:00	8.2m
19	17:00	8.2m	20	18:00	6.4m	21	19:00	4.1m
22	20:00	1.9m	23	21:00	1.3m	24	22:00	1.6m
25	23:00	1.3m	26	00:00	2.9m	27	01:00	4.2m
28	02:00	5.6m	29	03:00	6.4m	30	04:00	6.8m
31	05:00	7.5m						

Monthly tide tables in a similar format to those shown in an Almanac

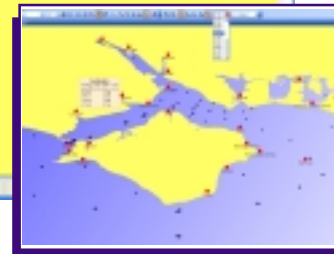
4

Included in Tide Plotter is the tidal streams information around the UK and Channel. The scale outline chart also gives the opportunity to plan routes. Distances and bearings are shown on the left hand side. Clicking on any of the ports gives tidal height information



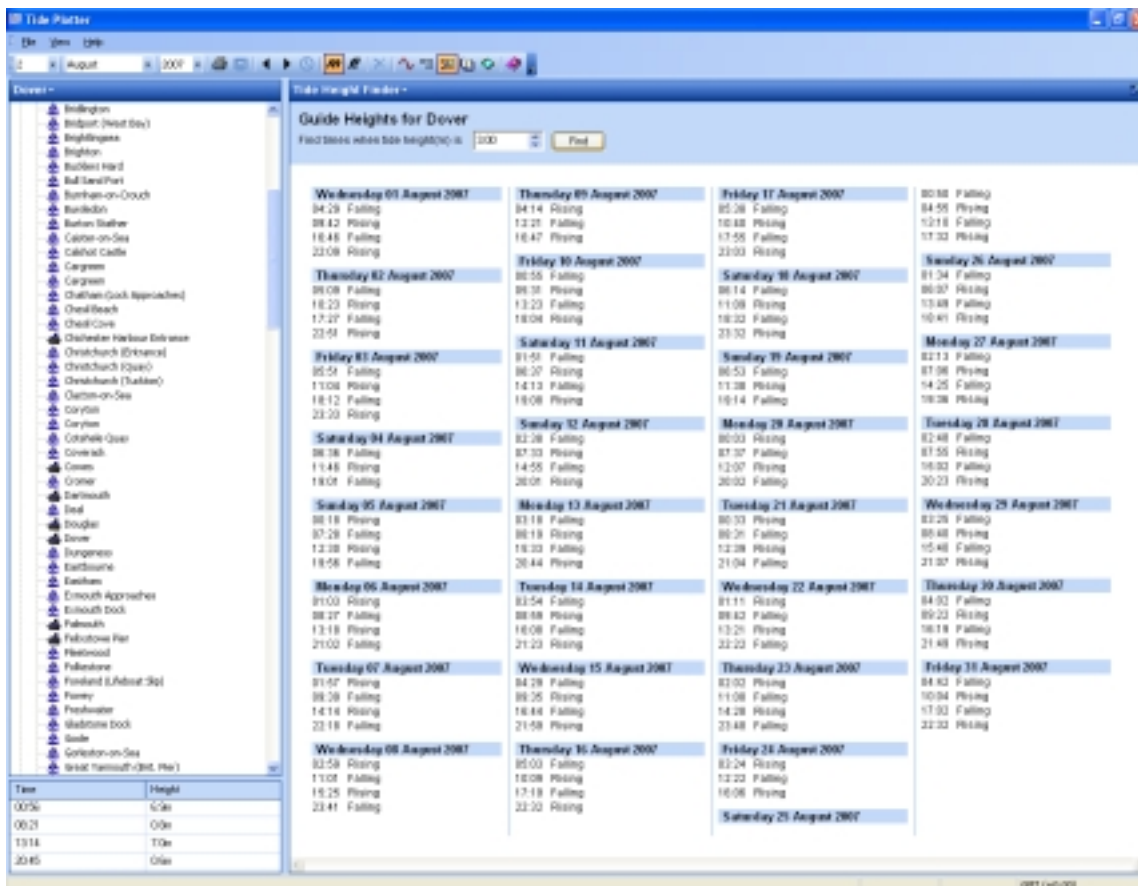
Route Planner

Tide Plotter will interface with your GPS to show current position on the outline chart



5

Tide Height finder enables you to enter a tide height for any port. Tide Plotter will then produce a table of times when the tide will be at that height, indicating whether the tide is rising or falling.



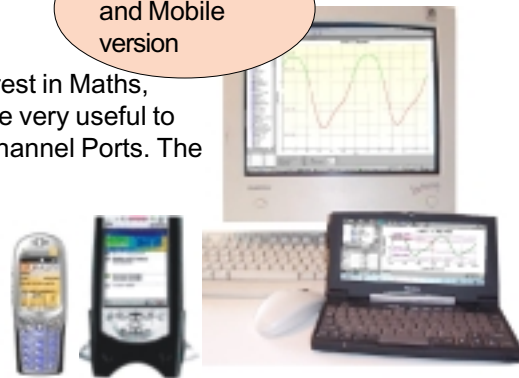
Guide Heights for Dover
Fact Base when tide height is 100

Day	Time	Height	Direction
Wednesday 01 August 2007	04:29	Falling	
Wednesday 01 August 2007	08:42	Rising	
Wednesday 01 August 2007	16:46	Falling	
Wednesday 01 August 2007	22:09	Rising	
Thursday 02 August 2007	05:08	Falling	
Thursday 02 August 2007	09:38	Rising	
Thursday 02 August 2007	18:23	Falling	
Thursday 02 August 2007	23:08	Rising	
Friday 03 August 2007	01:55	Falling	
Friday 03 August 2007	06:27	Rising	
Friday 03 August 2007	14:13	Falling	
Friday 03 August 2007	19:08	Rising	
Saturday 04 August 2007	02:28	Falling	
Saturday 04 August 2007	07:33	Rising	
Saturday 04 August 2007	14:45	Falling	
Saturday 04 August 2007	20:01	Rising	
Sunday 05 August 2007	03:19	Falling	
Sunday 05 August 2007	08:28	Rising	
Sunday 05 August 2007	15:38	Falling	
Sunday 05 August 2007	20:44	Rising	
Monday 06 August 2007	04:10	Falling	
Monday 06 August 2007	09:24	Rising	
Monday 06 August 2007	16:38	Falling	
Monday 06 August 2007	21:23	Rising	
Tuesday 07 August 2007	05:07	Falling	
Tuesday 07 August 2007	10:25	Rising	
Tuesday 07 August 2007	17:41	Falling	
Tuesday 07 August 2007	22:19	Rising	
Wednesday 08 August 2007	06:01	Falling	
Wednesday 08 August 2007	11:28	Rising	
Wednesday 08 August 2007	18:50	Falling	
Wednesday 08 August 2007	23:41	Rising	
Thursday 09 August 2007	07:00	Falling	
Thursday 09 August 2007	12:32	Rising	
Thursday 09 August 2007	20:00	Falling	
Thursday 09 August 2007	23:20	Rising	
Friday 10 August 2007	08:06	Falling	
Friday 10 August 2007	13:43	Rising	
Friday 10 August 2007	21:27	Falling	
Friday 10 August 2007	23:53	Rising	
Saturday 11 August 2007	09:18	Falling	
Saturday 11 August 2007	14:59	Rising	
Saturday 11 August 2007	23:03	Falling	
Saturday 11 August 2007	23:32	Rising	
Sunday 12 August 2007	10:33	Falling	
Sunday 12 August 2007	16:07	Rising	
Sunday 12 August 2007	23:57	Falling	
Sunday 12 August 2007	01:04	Rising	
Monday 13 August 2007	11:51	Falling	
Monday 13 August 2007	17:07	Rising	
Monday 13 August 2007	24:04	Falling	
Monday 13 August 2007	01:04	Rising	
Tuesday 14 August 2007	13:11	Falling	
Tuesday 14 August 2007	18:00	Rising	
Tuesday 14 August 2007	24:11	Falling	
Tuesday 14 August 2007	02:02	Rising	
Wednesday 15 August 2007	14:33	Falling	
Wednesday 15 August 2007	19:08	Rising	
Wednesday 15 August 2007	24:18	Falling	
Wednesday 15 August 2007	02:57	Rising	
Thursday 16 August 2007	15:56	Falling	
Thursday 16 August 2007	20:00	Rising	
Thursday 16 August 2007	24:24	Falling	
Thursday 16 August 2007	03:44	Rising	
Friday 17 August 2007	17:20	Falling	
Friday 17 August 2007	21:00	Rising	
Friday 17 August 2007	24:29	Falling	
Friday 17 August 2007	04:28	Rising	
Saturday 18 August 2007	18:45	Falling	
Saturday 18 August 2007	22:00	Rising	
Saturday 18 August 2007	24:33	Falling	
Saturday 18 August 2007	05:27	Rising	
Sunday 19 August 2007	20:11	Falling	
Sunday 19 August 2007	22:59	Rising	
Sunday 19 August 2007	24:36	Falling	
Sunday 19 August 2007	06:27	Rising	
Monday 20 August 2007	21:38	Falling	
Monday 20 August 2007	23:46	Rising	
Monday 20 August 2007	24:38	Falling	
Monday 20 August 2007	07:28	Rising	
Tuesday 21 August 2007	23:06	Falling	
Tuesday 21 August 2007	24:35	Rising	
Tuesday 21 August 2007	24:30	Falling	
Tuesday 21 August 2007	08:20	Rising	
Wednesday 22 August 2007	24:35	Falling	
Wednesday 22 August 2007	24:24	Rising	
Wednesday 22 August 2007	24:16	Falling	
Wednesday 22 August 2007	09:14	Rising	
Thursday 23 August 2007	26:04	Falling	
Thursday 23 August 2007	24:07	Rising	
Thursday 23 August 2007	24:06	Falling	
Thursday 23 August 2007	10:09	Rising	
Friday 24 August 2007	27:34	Falling	
Friday 24 August 2007	23:52	Rising	
Friday 24 August 2007	23:52	Falling	
Friday 24 August 2007	11:04	Rising	
Saturday 25 August 2007	29:04	Falling	
Saturday 25 August 2007	23:39	Rising	
Saturday 25 August 2007	23:39	Falling	
Saturday 25 August 2007	12:07	Rising	
Sunday 26 August 2007	30:34	Falling	
Sunday 26 August 2007	23:25	Rising	
Sunday 26 August 2007	23:25	Falling	
Sunday 26 August 2007	13:00	Rising	
Monday 27 August 2007	32:04	Falling	
Monday 27 August 2007	23:10	Rising	
Monday 27 August 2007	23:10	Falling	
Monday 27 August 2007	13:52	Rising	
Tuesday 28 August 2007	33:34	Falling	
Tuesday 28 August 2007	22:55	Rising	
Tuesday 28 August 2007	22:55	Falling	
Tuesday 28 August 2007	14:44	Rising	
Wednesday 29 August 2007	35:04	Falling	
Wednesday 29 August 2007	22:40	Rising	
Wednesday 29 August 2007	22:40	Falling	
Wednesday 29 August 2007	15:36	Rising	
Thursday 30 August 2007	36:34	Falling	
Thursday 30 August 2007	22:24	Rising	
Thursday 30 August 2007	22:24	Falling	
Thursday 30 August 2007	16:28	Rising	
Friday 31 August 2007	38:04	Falling	
Friday 31 August 2007	22:08	Rising	
Friday 31 August 2007	22:08	Falling	
Friday 31 August 2007	17:20	Rising	

About Tide Plotter

Tide Plotter was written by Peter and Keith Belfield. The combination of interest in Maths, Computer Science and Sailing led to the production of this utility which will be very useful to anyone with access to a PC who uses the tidal areas of UK, Ireland or the Channel Ports. The data is for one or three years, this keeps the cost down and enables annual upgrades to be made which will ensure updated harmonic data, and a product that keeps up to date with the rapidly changing domain of electronics. Tide Plotter has been written by sailors for sailors. We welcome your comments and suggestions to further develop this product. All data used in this product has been used with permission from the United Kingdom Hydrographic Office and the Controller of Her Majesty's Stationery Office, where tidal streams have been included the data has been derived from data sets supplied by the Proudman Oceanographic Laboratory

PC, Pocket PC
and Mobile
version



Versions

There are eight different versions available on the CD. Your access will be limited to the version you have purchased, they are:

UK, Ireland and Channel Ports from Holland to Brest.	1 year	3 year
UK, Ireland and European Ports from N. Norway to Gibraltar	1 year	3 year
East Coast of America, Gulf of Mexico and the Caribbean	1 year	3 year
Australia	1 year	3 year

Installation

Insert the CD: There is an autorun facility, if your computer does not support this then Click on 'Start' and then 'Run'

Type: D:\setup and press 'enter' - Please note this assumes drive D: is the correct drive letter for your CD, it can sometimes vary from one PC to another.

The first screen gives the following 9 options:

- *Tide Plotter for Windows* - select this for installation on a PC
- *Tide Plotter for Pocket PC* - select for Windows Mobile 3 or later
- *Tide Plotter for Windows Smartphone*
- *Working with Tides*. This is a book explaining the theory of tides with practical examples. Note this requires Adobe Acrobat Reader, PDF format
- *Photo Gallery* - photos and images of a range of water related activities. High resolution files uncompressed on the CD. Suitable for good quality prints or web sites, or just to view. The photos come complete with a picture viewer.
- *Logbook* - a logbook which can be printed out. Note this requires Adobe Acrobat Reader, PDF format
- *User guide* - note this requires Adobe Acrobat Reader, if this is not installed on you computer the the latest version is contained on the CD and it will automatically ask if you wish to install it.
- *Exit*



Please note, *Gale Force 8* does not appear on the menu but is contained on the CD - a dice strategy game with a nautical leaning. Great fun! Based on an ancient Chinese game. This can be accessed from the Gale 8 directory on the CD

Upgrading

To upgrade to the tidal streams version a purchase is necessary, available on the internet at: www.tideplotter.co.uk/streams-ug.htm. To unlock your existing copy of Tide Plotter to the new version:

select the Help menu

Unlock new editions

Enter the details and code

Systems requirements:

PC - 12Mb of RAM - Mouse or other pointing device- 486 DX 66mhz (Pentium 75 recommended) - VGA graphics (SVGA recommended)

Printing

When away from the computer Tide Plotter has useful printing features which enables 'hard copy' to be produced in different formats.

Ensure paper size is set to match your printer.

To print a 24 hr graph:

Display the graph you want to print on the screen

Select from the menu 'file' and then 'print'

Choose your printer option for 'landscape' or 'portrait' format.

There is an option to print in black and white only from the view - option menu, this speeds up printing and saves resources

To print a monthly table:

Display the monthly table on the screen

Select from the menu 'file' and then 'print'

Set printer to 'landscape' or 'portrait' format. To produce your own printed tide tables, repeat the above process for each month.

You can also print by copying and pasting data into your wordprocessor. This is a very quick and efficient method to reproduce data. This can be achieved by right clicking on either the graph or table and selecting copy

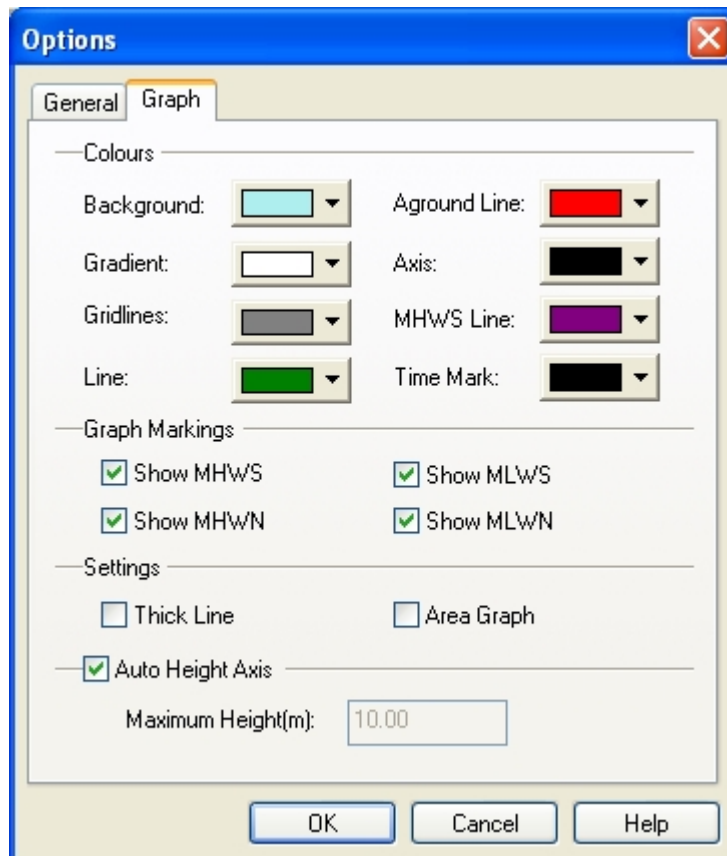
Setting the default values

You can change the default values of Tide Plotter. Once they are changed they are saved each time you exit and reinstated when you load the programme the next time. For example if you have been using Holyhead then this port will be reinstated when you reload, the only exception is the date, Tide Plotter will use the current date when the programme is loaded.

To alter:

- | | |
|-------------------------------|--|
| time zones | select ' <u>v</u> iew - <u>t</u> ime zone |
| draught of the boat | select <u>v</u> iew - <u>o</u> ptions |
| alter the colour of the graph | select <u>v</u> iew - ' <u>o</u> ptions' and ' <u>g</u> raph' |
| show mean levels | select <u>v</u> iew - ' <u>o</u> ptions' and ' <u>g</u> raph' |
| graph thick or thin line | select ' <u>v</u> iew' - ' <u>o</u> ptions' and ' <u>g</u> raph' |
| area graph | select ' <u>v</u> iew' - ' <u>o</u> ptions' and ' <u>g</u> raph' |
| print in black and white | select ' <u>v</u> iew' - ' <u>o</u> ptions' |

Menu - View options



Windows 98,2000,ME,NT4, XP, Vista
5 Mb of hard disk space

Windows Mobile 2003, or later for the Pocket PC

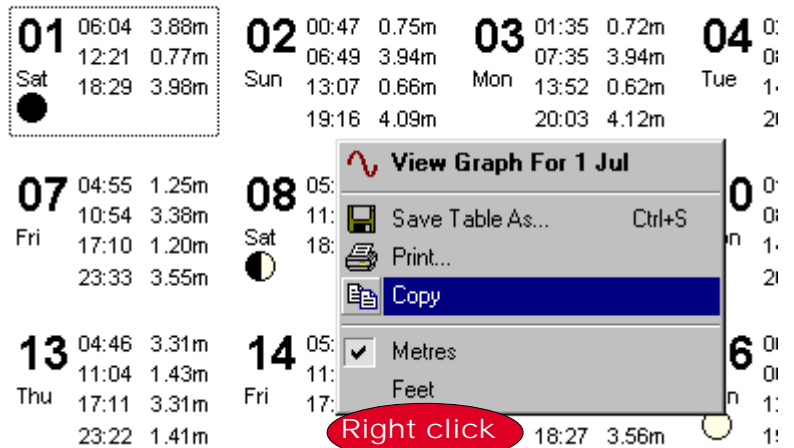
Oban - July 21

Exporting data

The data produced by Tide Plotter can be exported and used in other programmes. This is particular useful if you are producing documents, newsletters, charts etc., using another wordprocessor, DTP package or spreadsheet etc.

There are five formats that data can be exported to:

- JPEG
- EMF (enhanced meta file)
- Text
- HTML
- CSV (for spreadsheets)



To export the graph:

Produce the graph on screen that you require

Select *'file'* and *'save graph as'*

You can choose between JPEG *.jpg and enhanced metafile *.emf, formats

Select the directory to save the file in

Enter the size of graph required

Enter a filename

Press *'enter'*

The graph can also be copied to the clipboard and pasted into other programmes by:

Right clicking on the graph

Selecting *copy*

To export from the monthly times and heights data:

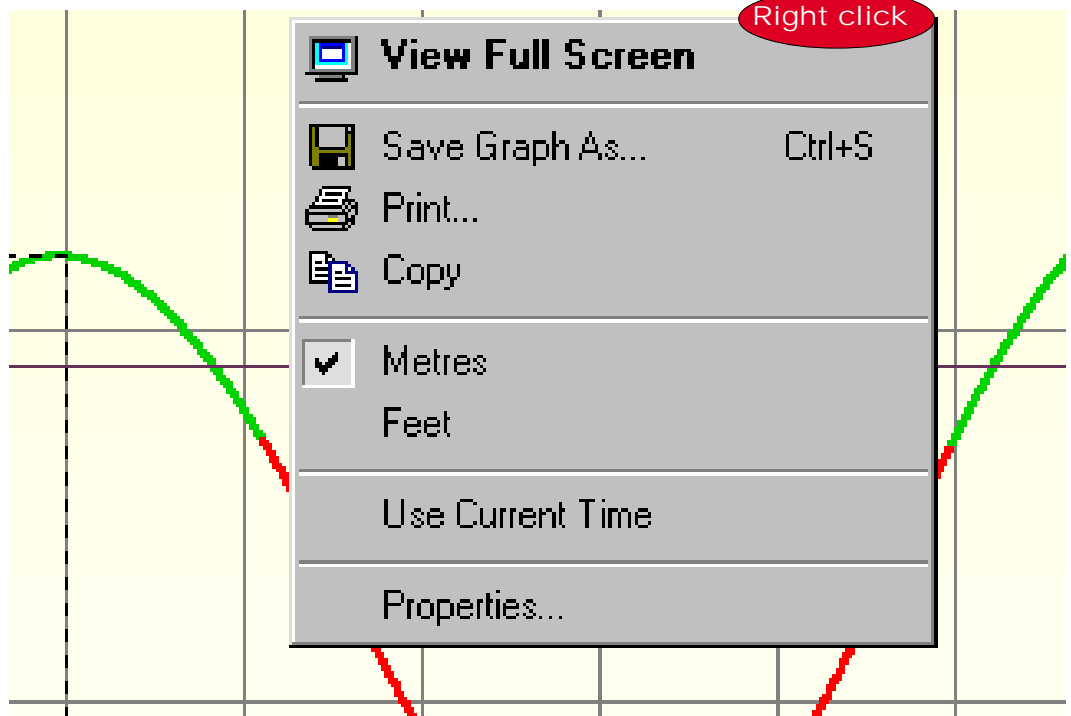
display the monthly data on the screen

Select *'file'* and *'save table as'*

You can choose between HTML or text formats

Select the directory to save the file in

You can also copy the table data to the clipboard to paste into other programs
right click the mouse



TIP
Use the right mouse click to access on screen menus

Export to a spreadsheet

Tide Plotter can export data for any port within the program, for any specified duration within the period of the program, at intervals of 5, 10, 30 minutes, hourly or at the periods of high and low water. This data is produced in CSV (comma separated variable). This format can be loaded directly into a spreadsheet such as Excel or imported into a database.

From the File menu at the top of the screen a drop down list will appear with the option Export data. When selected you will be asked for a file name and directory location. The dialogue box shown to the right will appear enabling selection of file name and directory location. Click on Save and the dialogue box shown below right will appear.

If you wish to change the port go back to the Tide Plotter graph screen and select a different port. Note the times that the data is exported in is determined by the time zone that you have selected in Tide Plotter. To change the time zone go back to the main screen and select the menu View, Time zone.

There are limitations as to the amount of data you can use. This is determined by the spreadsheet you are using, not by Tide Plotter. For example if you exported data for three years at 5 minute intervals then your spreadsheet would need to be able to display 315,360 lines of data. The current professional edition of Excel can display up to 65,536 lines of data.

The data is then stored in a CSV file. To enter the data into a spreadsheet. Open that file from within, for example, Excel.

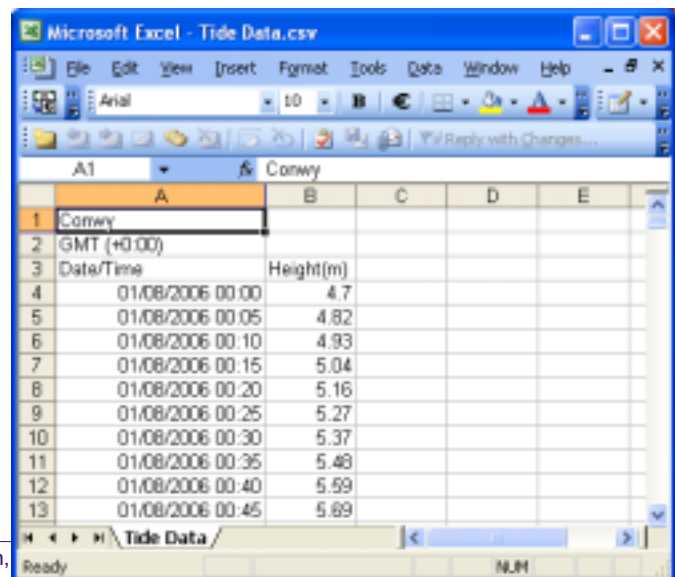
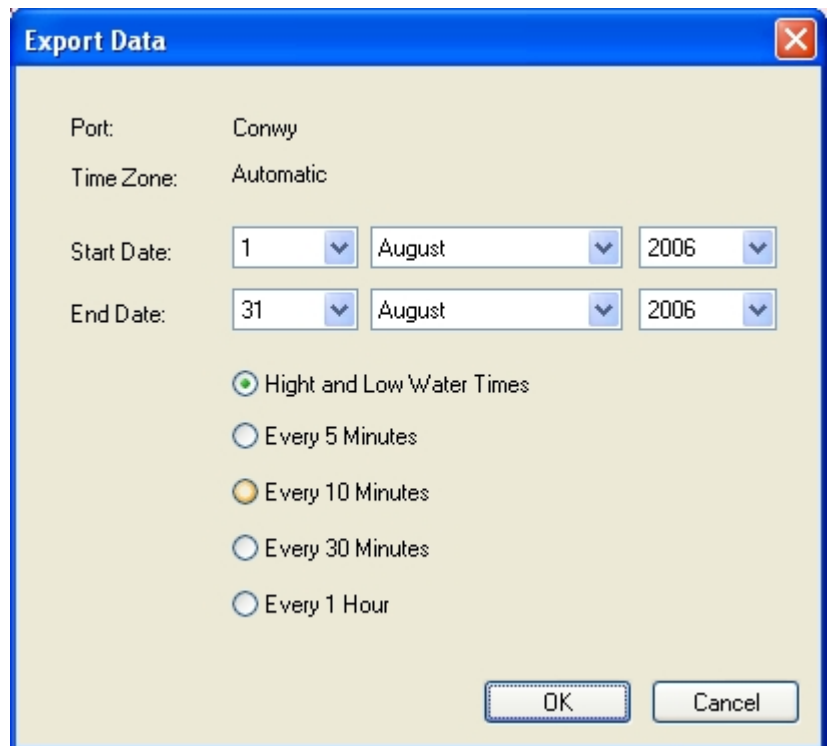
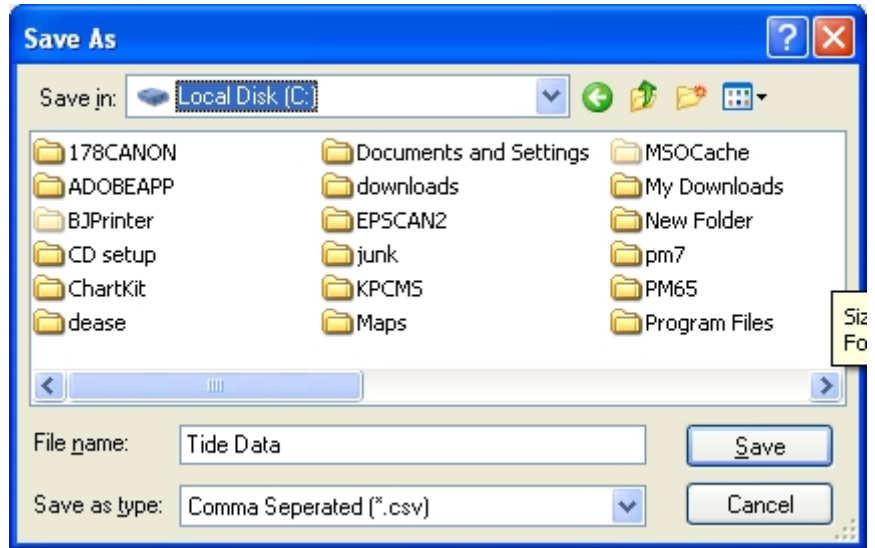
The data is then displayed within the spreadsheet as shown in the example on the right.

The data is in two columns:

- date and time
- height

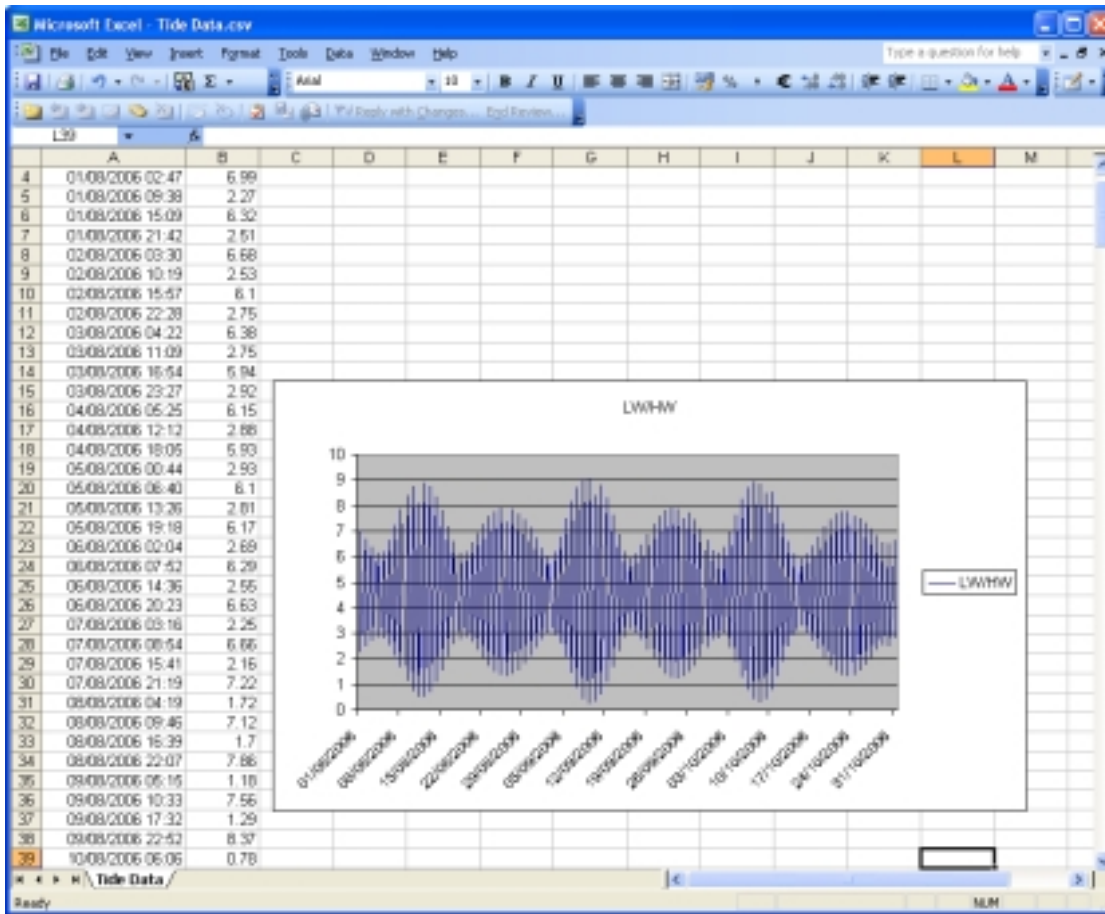
The limitations on how this data is manipulated is then governed by the capabilities of the spreadsheet, (and your own ability).

See the next page for some examples.



Example 1, uses the chart facility within Excel to graphically represent High and Low water patterns over a six month period. It gives an at a glance view of when the large Spring and smaller Neap tides occur. Hovering the mouse over any part of the graph brings up a small box indicating the precise date of that tide.

At this port the MHWS height is 7.9m and the MHWN height 6.2m



Example 2

To produce a list of tide heights at 5 minute intervals for the months of August and September and to highlight the dates and times when the height will be 6.7 metres or above.

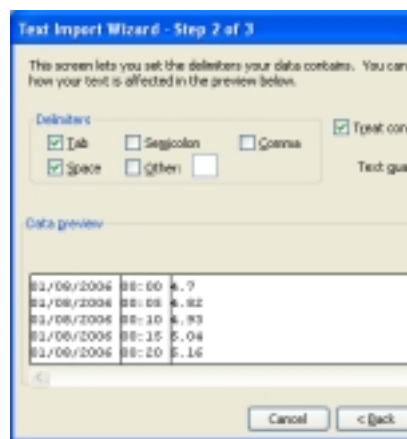
From Tide Plotter:

- click on the file menu and select the export data option.
- set the date period
- select the time interval to 5 minutes
- Export to a file.

Load into Excel (or similar)

In this example we have separated the date and time into two different columns. To do this save the spreadsheet as a text file and then re open the text file in Excel. You can then use the spreadsheet features to separate the cells by making the data space and tab delimited. See dialogue box above.

To highlight when the height is equal to or above 6.7m use the format menu and conditional formatting feature.



	A	B	C	D
20	01 August 2006	01:35	6.53	
21	01 August 2006	01:40	6.59	
22	01 August 2006	01:45	6.65	
23	01 August 2006	01:50	6.71	
24	01 August 2006	01:55	6.76	
25	01 August 2006	02:00	6.80	
26	01 August 2006	02:05	6.84	
27	01 August 2006	02:10	6.87	
28	01 August 2006	02:15	6.91	
29	01 August 2006	02:20	6.93	
30	01 August 2006	02:25	6.95	
31	01 August 2006	02:30	6.97	
32	01 August 2006	02:35	6.98	
33	01 August 2006	02:40	6.99	
34	01 August 2006	02:45	6.99	
35	01 August 2006	02:50	6.99	
36	01 August 2006	02:55	6.98	
37	01 August 2006	03:00	6.97	
38	01 August 2006	03:05	6.96	
39	01 August 2006	03:10	6.94	
40	01 August 2006	03:15	6.92	
41	01 August 2006	03:20	6.89	
42	01 August 2006	03:25	6.86	
43	01 August 2006	03:30	6.82	
44	01 August 2006	03:35	6.78	
45	01 August 2006	03:40	6.74	
46	01 August 2006	03:45	6.69	
47	01 August 2006	03:50	6.64	
48	01 August 2006	03:55	6.59	
49	01 August 2006	04:00	6.53	

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Graph

The 24 hour graph gives detailed predictions at one minute intervals throughout a 24 hour period. This includes, height above chart datum, the distance the tide will drop to the next Low Water, estimates of grounding periods based on the actual depth of water computed with the tidal information at any one given time.

24hr graph

Callouts:

- Drop down box to give most recently used ports
- Drop down box to give options for: 24hr graph, monthly table, height tables, tide log
- Selects monthly table
- Selects graph screen
- Selects tide height finder
- Selects help
- Produces a full screen of the graph
- View Full Screen
- Save Graph As... Ctrl+S
- Print... Export options
- Copy
- Metres (checked)
- Feet
- Use Current Time
- Properties...
- Right clicking on the graph gives these menu options
- dashed line indicates time and height on the graph
- Place cursor on graph to indicate time and height
- Enter time to base calculations on, or click clock icon above for real time
- Enter depth sounder reading to give grounding estimates
- Time zone can be altered from the view - time zone menus. The time indicates GMT with 2hrs added
- Height Above Chart Datum: 9.80m
- Drop to Low Water: 5.96m
- Draught of Boat: 1.00m
- Time: 12:00
- Depth of Water(m): 4.50
- Sunrise: 06:12
- Sunset: 22:09
- GMT (+2:00)
- You will run aground at the next low water
- Draught can be altered via the view - options menus
- High and low waters with heights

Time	Height
00:52	11.3m
07:49	3.3m
13:24	10.8m
20:12	3.8m

Order

- Nearest Ports
- Calculate Graph
- Calculate Table
- Properties...

Right clicking on a port in the ports list gives the options to:

- Order ports alphabetically or geographically
- Indicate nearest ports with bearing and distance
- Produce a graph
- Produce a monthly table
- Give properties Lat and Long position

Steep Holm	3.1 Nm	168°T
Cardiff	4.2 Nm	342°T
Weston-super-	5.4 Nm	111°T
Barry	5.6 Nm	269°T
St Thomas Head	6.9 Nm	081°T
Hinkley Point	10.0 Nm	183°T
Newport	11.2 Nm	026°T
Watchet	14.5 Nm	214°T
Port of Bristol (Avonmouth)	16.0 Nm	063°T
Minehead	16.5 Nm	232°T

TIP
Use the right mouse click to access on screen menus

Monthly table

- Drop down box to give options for:
- 24hr graph
- monthly table
- height tables
- tide log

Monthly table

Flat Holm - July 2001

01	Sun	05:11 9.8m	03	Tue	06:06 10.0m 12:18 2.6m 18:31 10.1m
02	Mon	11:25 2.8m 17:40 9.8m 23:52 2.8m	05	Thu	01:20 10.7m 07:30 2.0m 13:40 10.9m 19:50 2.0m
04	Wed	00:42 2.5m 06:54 10.3m 13:04 2.4m 19:16 10.4m	06	Fri	02:07 2.0m 08:17 10.7m 14:24 2.0m 20:35 10.9m
07	Sat	02:45 1.9m 08:54 10.8m 15:01 2.0m 21:12 11.0m	08	Sun	03:22 1.9m 09:31 10.7m 15:37 2.0m 21:48 10.9m
09	Mon	03:58 1.9m 10:07 10.6m 16:13 2.1m 22:24 10.8m	10	Tue	04:35 2.1m
11	Wed	05:12 2.4m	12	Thu	05:49 2.7m

Tide Height Finder - Find Heights for Porthcawl

Find times when tide height(m) is

Sunday 01 July 2001		Thursday 05 July 2001		Monday 09 July 2001	
08:46	Falling	14:01	Rising	01:34	Falling
10:52	Rising	23:17	Falling	05:03	Rising
21:32	Falling	02:25	Rising	13:51	Falling
23:09	Rising	11:27	Falling	17:11	Rising
Monday 02 July 2001		Friday 06 July 2001		Tuesday 10 July 2001	
09:35	Falling	03:12	Rising	02:13	Falling
12:03	Rising	12:01	Falling	05:34	Rising
22:12	Falling	15:29	Rising	14:34	Falling
Tuesday 03 July 2001		Saturday 07 July 2001		Wednesday 11 July 2001	
00:25	Rising	00:23	Falling	02:57	Falling
10:17	Falling	03:52	Rising	06:02	Rising
13:06	Rising	12:36	Falling	15:21	Falling
22:44	Falling	Sunday 08 July 2001			
Wednesday 04 July 2001		16:06	Rising		
	Rising				
	Falling				

GMT (+1:00)

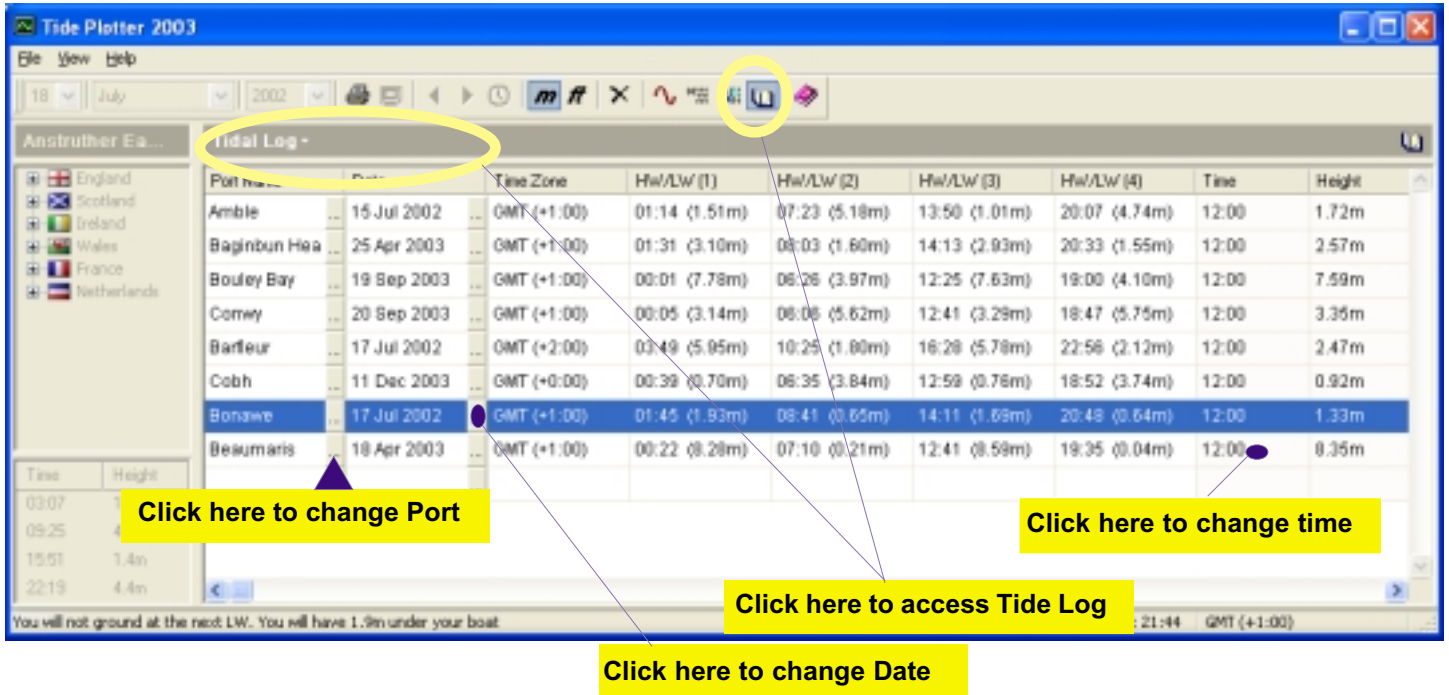
Height finder

Enter the chart datum height for a particular port and Tide Plotter will produce a table of the times when the tide will be at that height

This tide height finder will indicate the estimated time that the tide will be at the time entered in the box. It also indicates whether the tide will be rising or falling at that time

Tide Log

This facility allows you to build up a log of ports on one screen, or, alternatively you can print them out onto one page



To delete a line, right click on the line and select delete

Carrickfergus	30 Jul 2001	GMT (+1:00)	01:53 (0.97m)	08:05 (2.70m)	14:26 (0.83m)	20:46 (2.70m)
Conwy	30 Jul 2001	GMT (+1:00)	02:01 (2.85m)	07:50 (6.47m)	14:41 (2.50m)	20:28 (6.33m)
Eastbourne	10 Jul 2001	GMT (+1:00)	02:48 (6.21m)	09:06 (1.34m)	15:10 (6.23m)	21:28 (1.57m)
Eastbourne	09 Jul 2001	GMT (+1:00)	02:11 (6.35m)	08:29 (1.20m)	14:33 (6.38m)	20:50 (1.42m)
Appledore	30 Jul 2001	GMT (+1:00)	02:41 (5.57m)	09:19 (1.84m)	15:19 (5.56m)	21:55 (1.89m)
Bonawe	30 Jul 2001	GMT (+1:00)	04:46 (1.68m)	11:35 (0.77m)	17:25 (1.60m)	
Berck	30 Jul 2001	GMT (+2:00)	03:14			03:30 (7.86m)

Right click on line to delete

Right click to go to graph

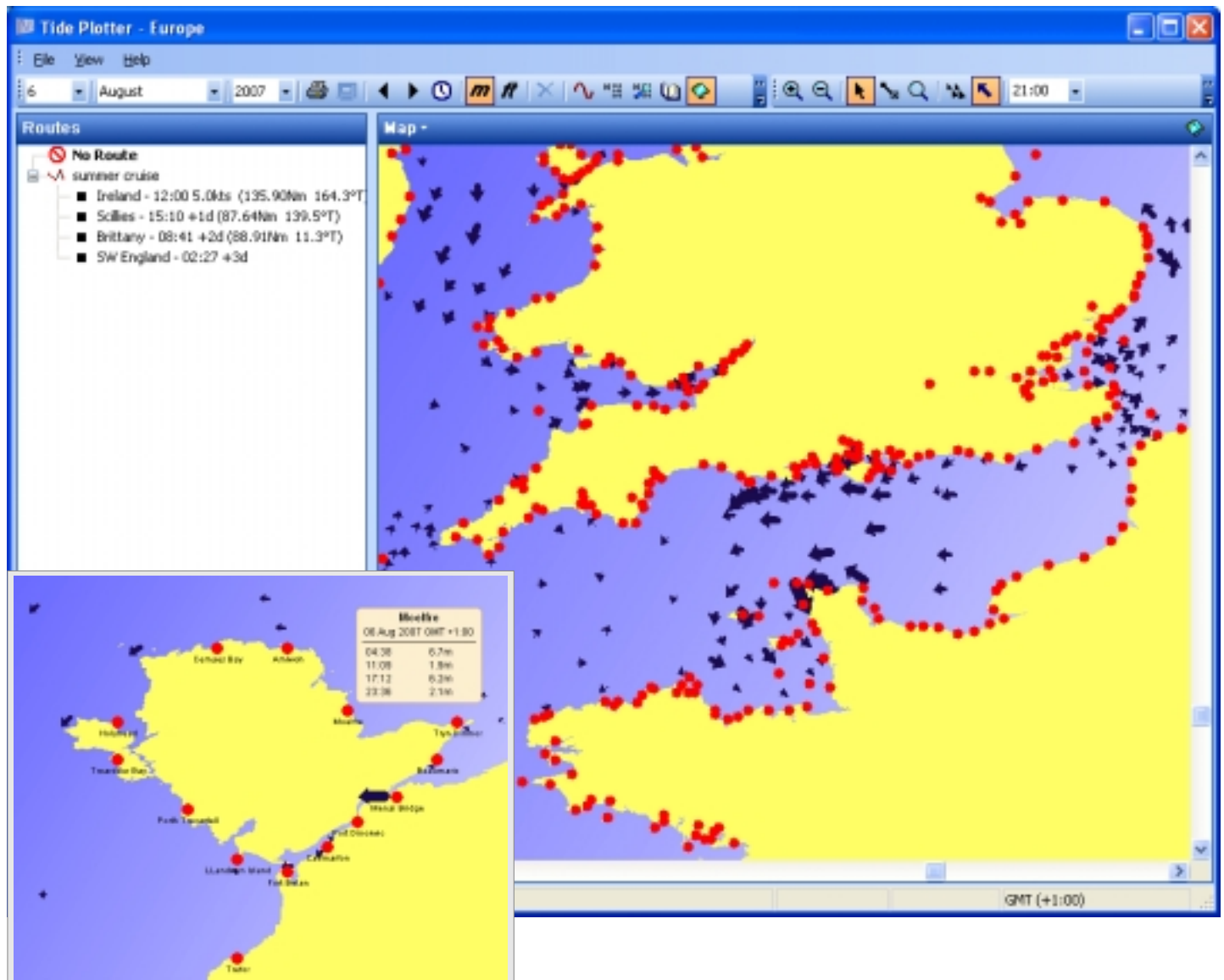
Tide Log enables you to:

- select Port
- date
- read four tide peaks and troughs with times and heights
- select a time
- read the height above chart datum
- list as many Ports as you wish
- print out the log

When the program is closed, the log is automatically saved and will appear on your screen the next time you load Tide Plotter

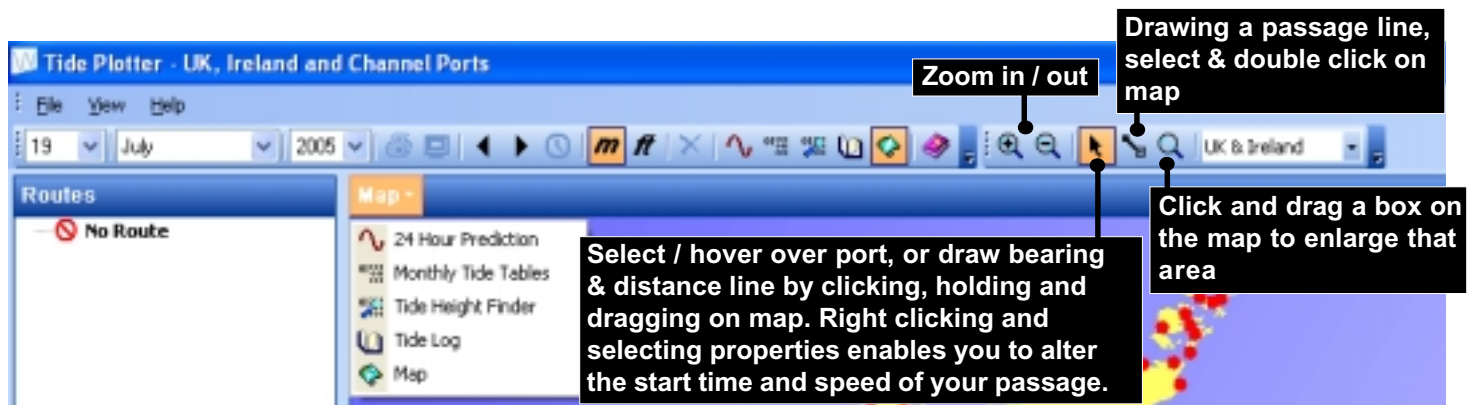
Map feature

The map feature in Tide Plotter gives an overview of all the ports for which there is tidal height data. There is additional information relating to tidal streams diamonds. The direction and rate of flow is given, interpolated for the selected time and the relative tide state between springs and neaps



Hovering the cursor over any one of the red dots representing a port will produce a popup box with the highs and lows times and heights. Double clicking on the red dot will take you to the 24 hour graph for that port.

As you zoom in on any area of the map the red dots will have the port name superimposed on the map.. The map is a scale map and the latitude / longitude position of the cursor is indicated at the bottom left of the screen.



Route plotting

Double click on route to select it on the screen. Double click on 'no route' to deselect all routes from the screen.

Right click on route point to change properties or to rename a route

Latitude / Longitude position of cursor

Tip
use double click and right click features

To create a route select the route icon from the toolbar and double click at the starting point for the route


To move a route point select the arrow icon from the toolbar, click and hold the cursor on the route point and move

Double click to add a point to the end of the route

With the arrow tool selected, right click on the start point of the route to change the properties, eg., start time or speed


The map feature on Tide Plotter can also be used for plotting: bearings, distances, speed and time of travel. Tide Plotter does not take account of tidal streams unless the tidal stream add on has been purchased.

To plot a route:

-  Select the route plotting icon on the toolbar
- Double click on the map to indicate the start point
- Double click on the next route point (and then any successive route points you wish to plot)

*Note that the route information uses the notation of displaying information FROM
Eg., the route information next to point 1 is from point 1 to point 2*

Routes

-  No Route
- **Conwy - Port St Mary**
 - Point 1 - 12:00 5.0kts (1.80Nm 308.8°T)
 - Point 2 - 12:21 (3.33Nm 245.0°T)
 - Point 3 - 13:00 (53.99Nm 329.1°T)
 - Point 4 - 23:47
- **Holyhead - Howth**
 - Point 1 - 12:00 5.0kts (3.27Nm 319.0°T)
 - Point 2 - 12:39 (49.13Nm 272.4°T)
 - Point 3 - 22:28

Select the pointer icon on the toolbar

- On the left hand side of the screen the route details will be displayed
- To name the route: right click on the route title and *rename*
- To clear the route from the screen double click on *No route*
- To select a route double click on the route title, which will then be highlighted in bold text
- To change the start time or speed, double click on point 1 and select *properties*
- To move a route point on the screen, click and hold on the route point and then move to a new location
- To delete a route point, right click on the point and *delete*

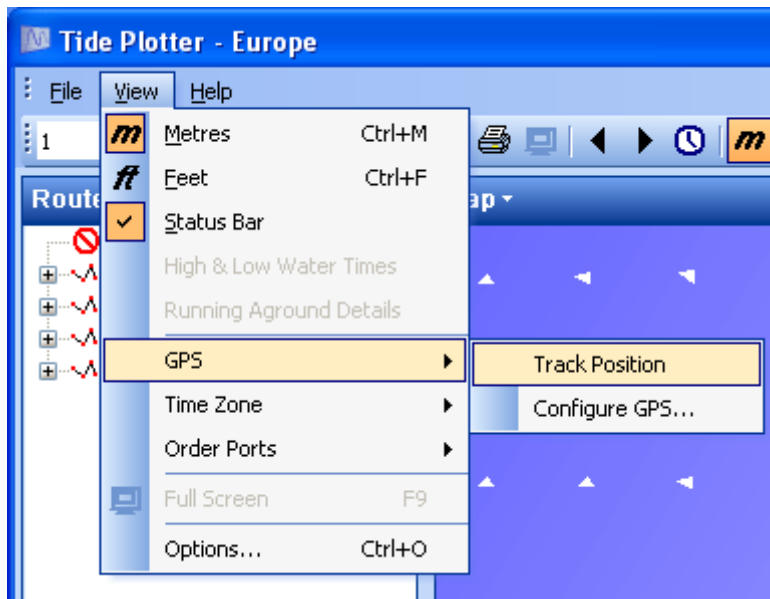
GPS interface

Tide Plotter has the facility to display GPS readings on the outline map. To operate this feature you will require the following:

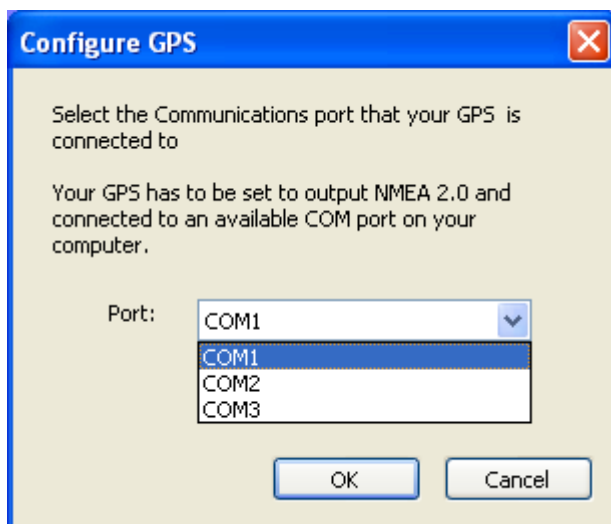
- the appropriate GPS drivers installed on your computer
- data received from the GPS on NMEA version 2 or later

To enable Tide Plotter to track your position, first you need to configure the GPS, to do this:

- select the view menu at the top left of the screen
- select Configure GPS
see diagram below



Select the communication port that your GPS is connected to from the dialogue box
see diagram below

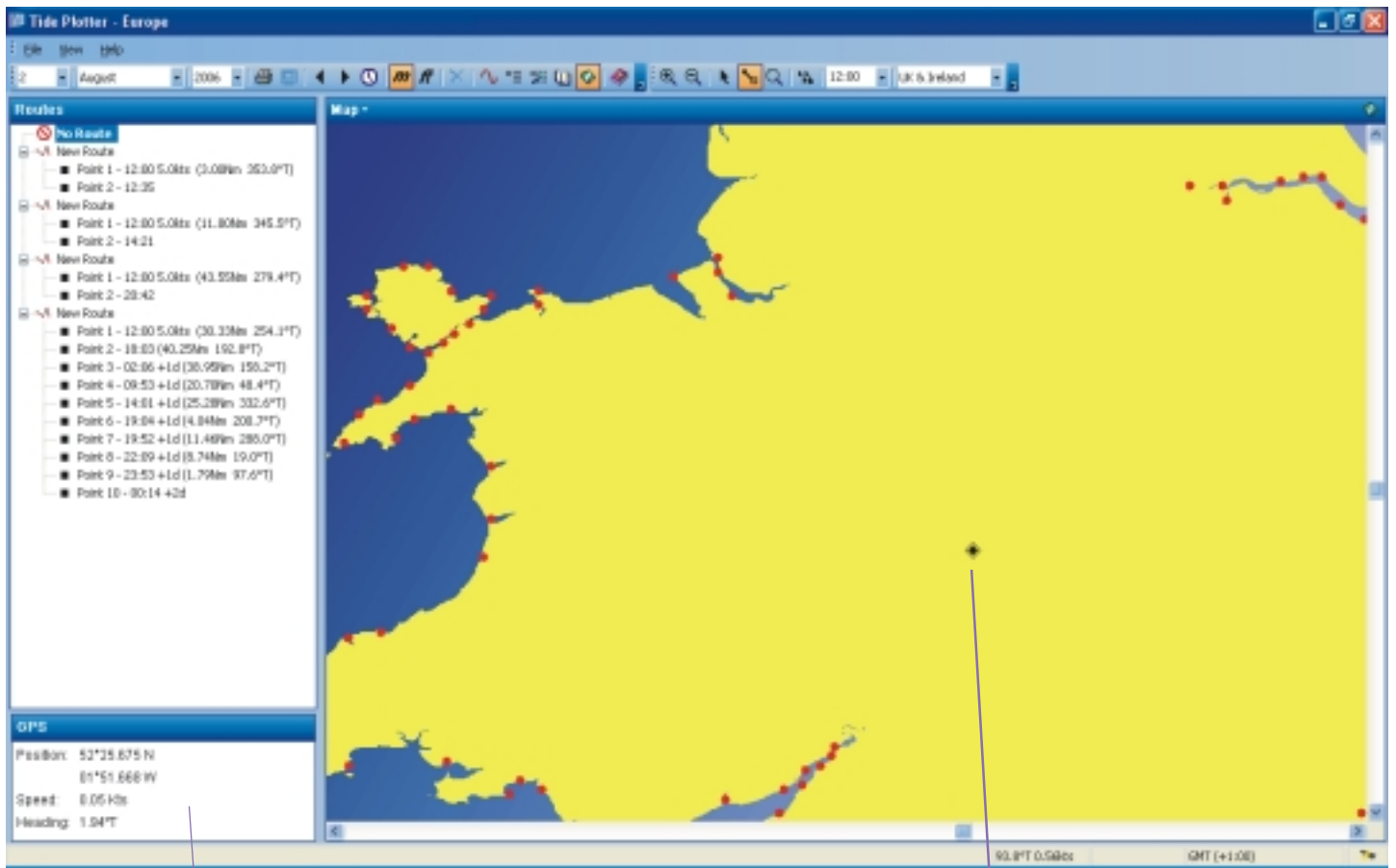


Finally click again on view, GPS and Track Position. You should not have to configure your GPS each time you load Tide Plotter. Please note that the serial port can only receive NMEA data and send it to one application. If you have software running from a NMEA signal then it will have to be shut down before opening another application

A black diamond will appear on the screen indicating your current position on the map.

An additional box will appear at the bottom left of the screen underneath the the route details

see opposite



The route map indicates:

- the position shown as Latitude and Longitude
- the speed shown in knots
- the heading shown as a True Course

The current position is indicated on the map by a black diamond



Use the pointer tool

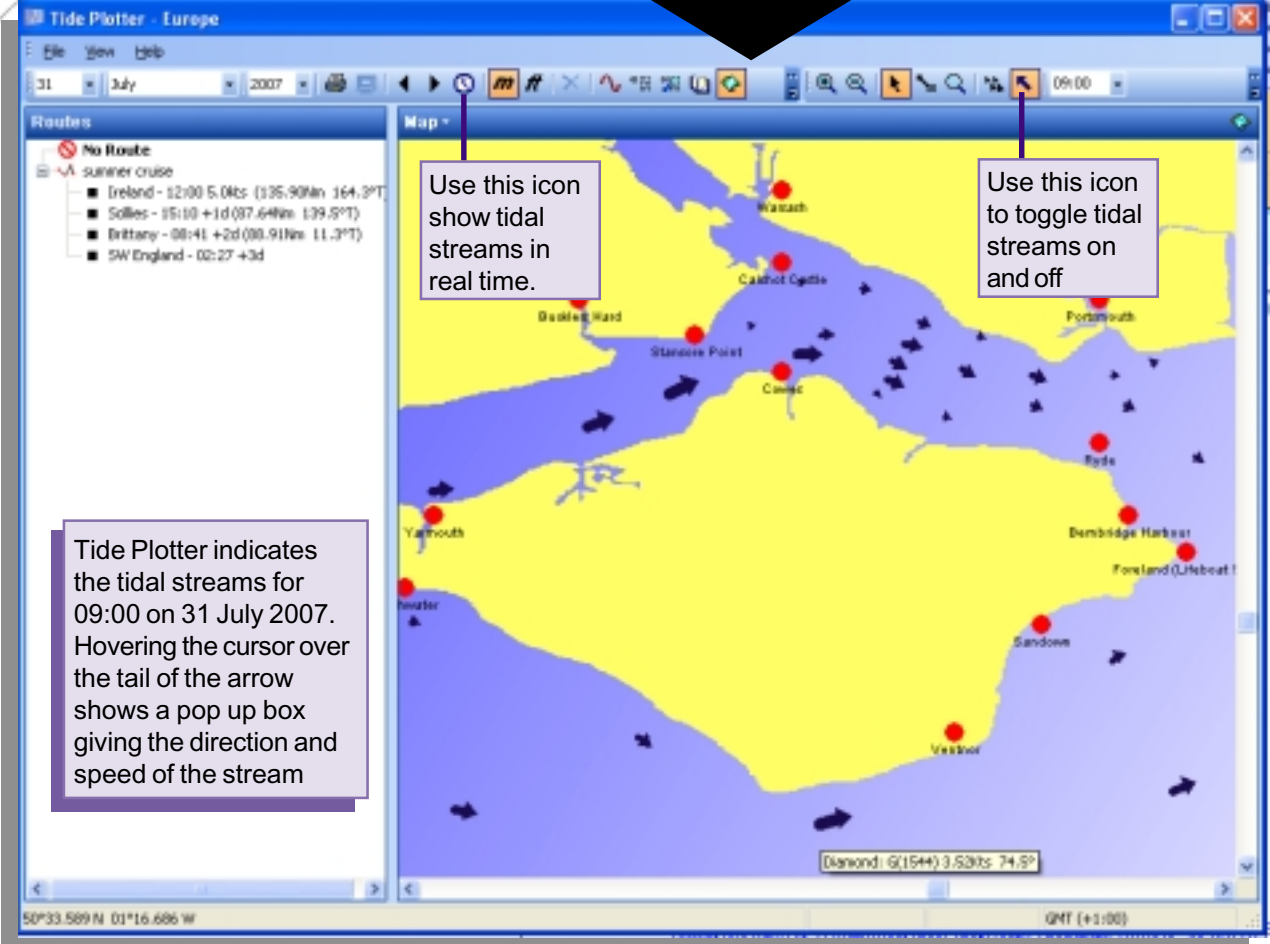
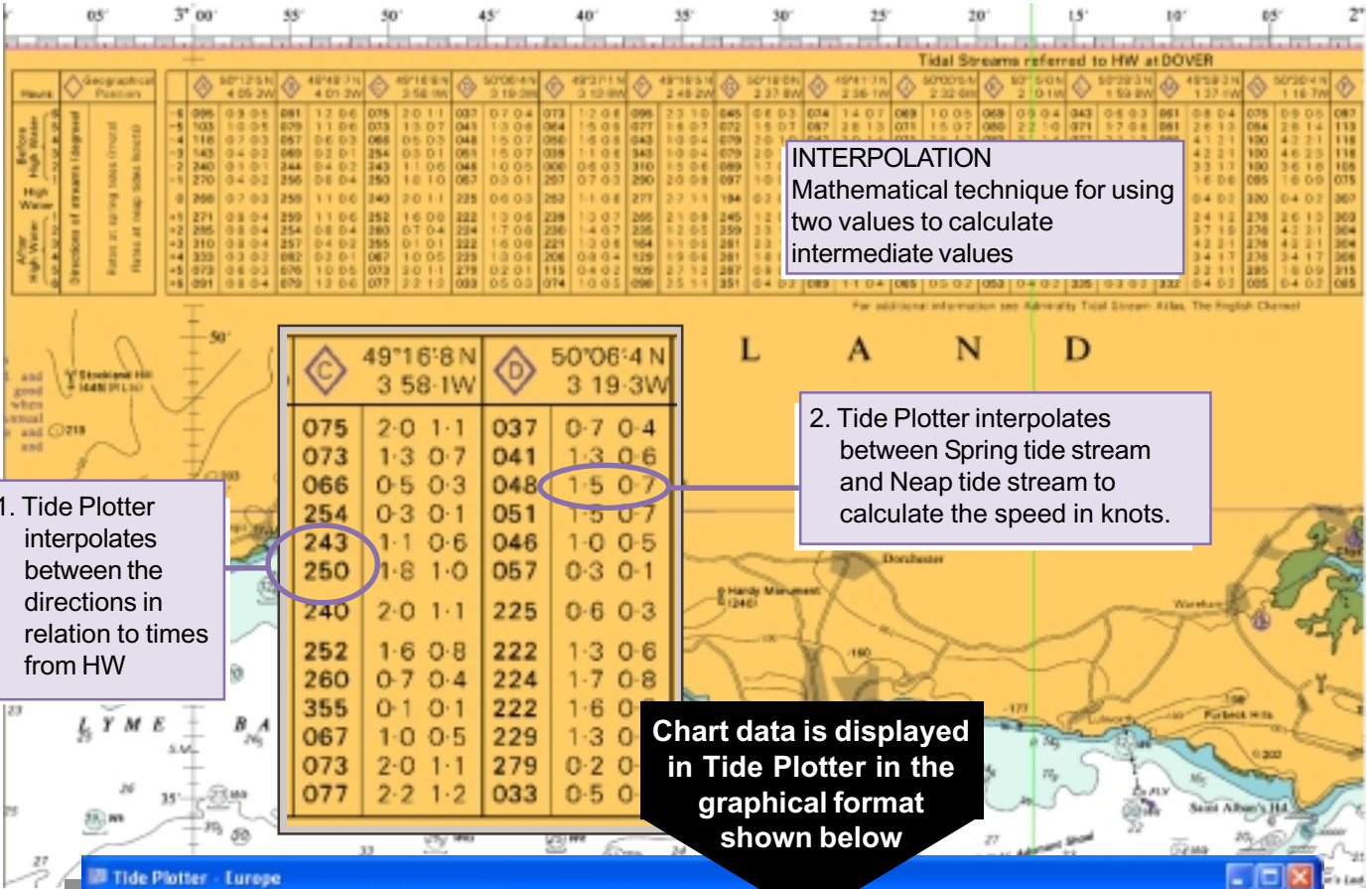
With the GPS tracking the position it is possible to draw a line from that position point to any other position on the map to give:

- distance in nautical miles
- true bearing to that point



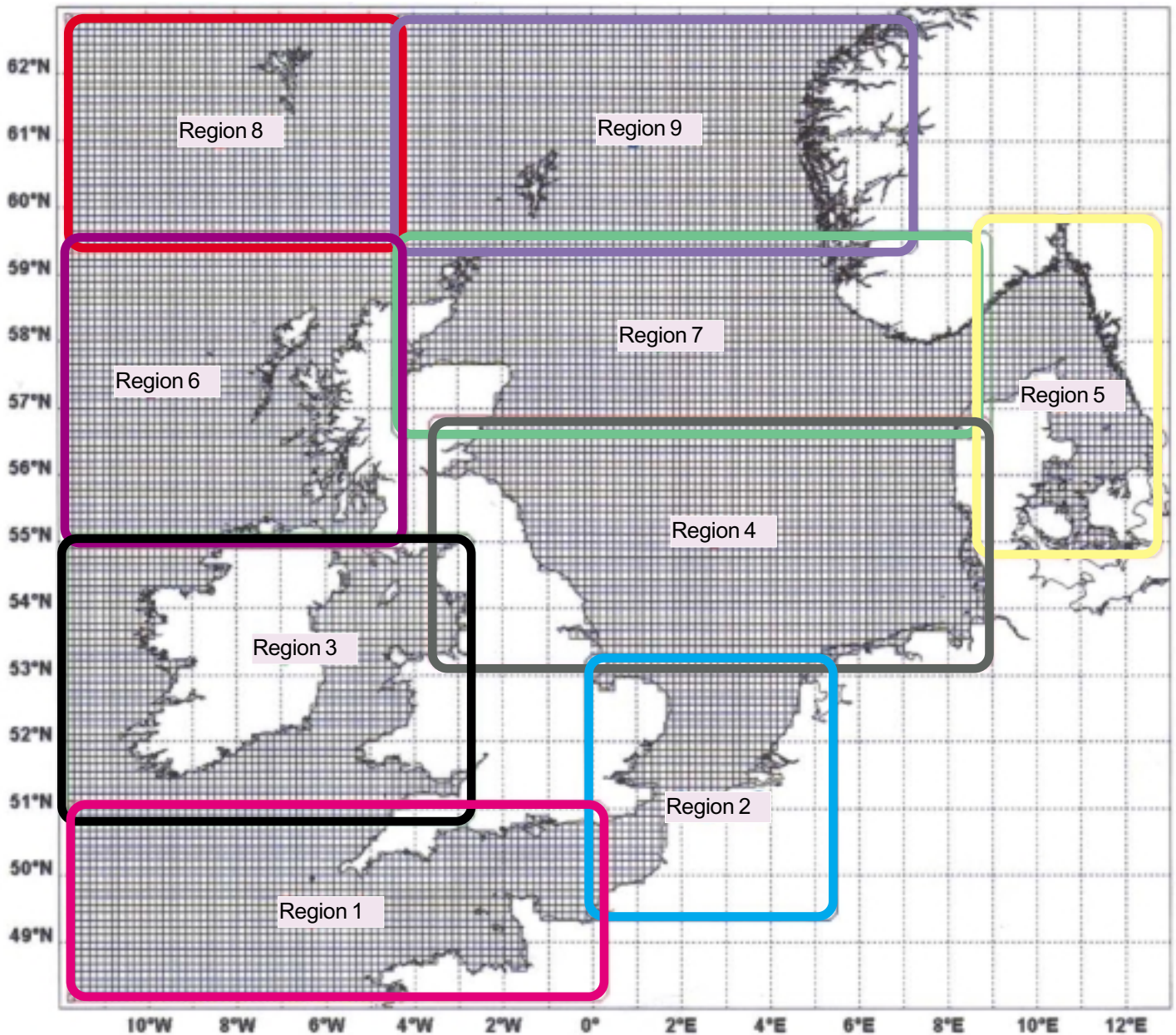
Tidal Stream information included in the standard package

Tidal stream data is included in the standard package. The data is represented by tidal stream arrows on the outline chart. The time can be set to your choice using the drop down time box at the top of the screen, or, alternatively the arrows will update themselves with the real time by clicking on the clock icon at the top of the screen.



Tidal stream regions (can be purchased as an add on to the standard package).

There are additional add ons to Tide Plotter to give tidal streams and route planning facilities that take into account the horizontal tidal stream set and work out the tidal vectors . This tidal stream add on gives far more detailed information than the tidal stream diamond information included in the standard package. The following map indicates the nine regions for tidal stream data. You can purchase one or more regions from one to any combination up to nine.



Tidal streams

The tidal streams component of Tide Plotter is an additional add on, if you have purchased the basic program it is possible to upgrade, either via the web site, www.tideplotter.co.uk, or by telephoning 0121 777 6756.

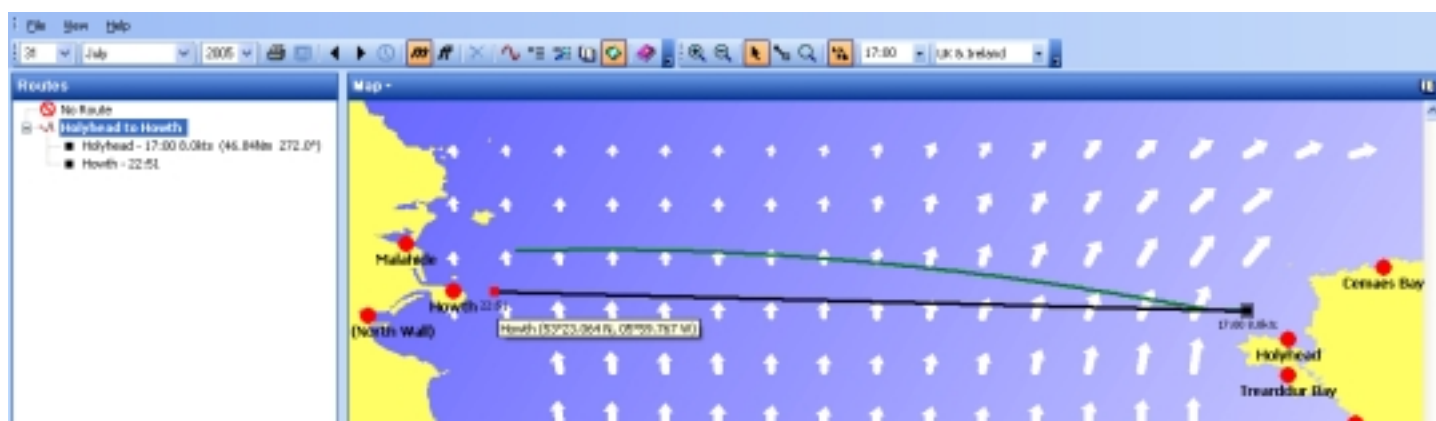
The tidal stream data is provided in nine areas for continental Europe. The upgrade cost is for one area, additional areas can be purchased from one individual area up to any combination of all nine.


The tidal stream data is provided under licence from Proudman Oceanographic Laboratories. The streams give detailed information which will be extremely useful for passage making and route planning. The streams do not contain data relating to the immediate coastline close inshore.

The tidal stream map is accessed by clicking on the map icon on the toolbar. The scale of the map can be enlarged or reduced using the zoom tools.

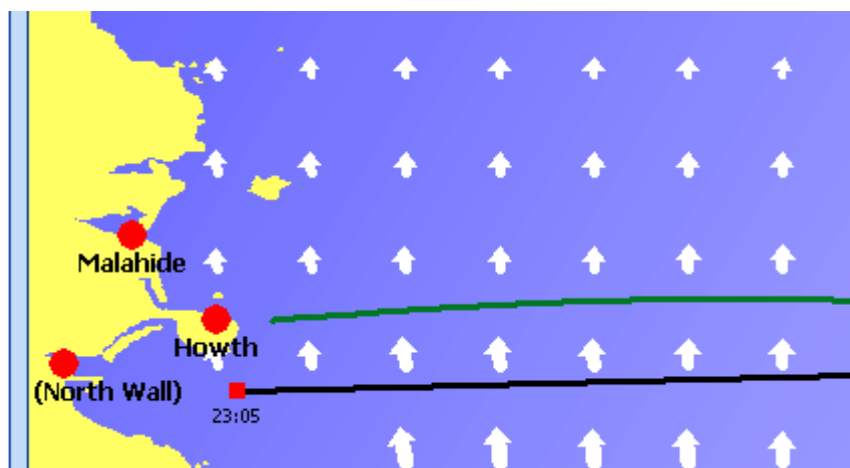
In addition to giving a graphical representation of the tidal streams, tide plotter will also display the tidal drift for a route of your own determined direction and speed of travel. This feature can be used to plan your course taking into account the effect of the tide during the period of your passage. The course detail is given in degrees true with the speed in knots. The course over the ground caused by tidal drift is shown as a green line.

The example below shows a route from Holyhead to Howth. The green line shows the tidal set and if you were to maintain your original course of 272 degrees T, you would end up north of Howth. On the left side of the screen the route detail is displayed. Please note that the information alongside the route point Holyhead is from Holyhead to Howth. The information beside the route point is: time, speed, distance, true bearing.



If on this route you select the pointer tool  and move the route point Howth, by clicking holding and moving it downwards until the end of the green tidal line finishes at Howth, this will now give an indication of the route needed to take into account the tidal set. Note the route information on the left of the screen has now changed giving a new course of: 268 degrees T. The distance has also increased from 46.84Nm to 48.69Nm and the time from 22.51 to 23:05. This click and drag method is an extremely quick way to predict and plan various options when passage planning. The vectors for the tidal set are worked out at two minute intervals, such calculations, without a computer would be totally impracticable. Bear in mind that Tide Plotter can be used to adjust course for tidal set but you will need to apply leeway, variation and deviation.

Holyhead to Howth
■ Holyhead - 17:00 8.0kts (48.69Nm 268.0°T)
■ Howth - 23:05



Tidal streams toolbar

Select tide table

Select 24hr tide graph

Select tide height finder

Select tide log

Select map

Zoom in or out

Select route tool and double click on map to enter route points

Select and draw box on area of the map to enlarge that area

Select time for tidal arrows on the map

Select pointer tool, click and hold on route points to move their position. Right click on route points to delete, rename or alter the properties of the point

Toggle tidal arrows on/off

Tip

Click on the clock icon to indicated the tidal streams in real time. The arrows an data will constantly update

Creating a tidal route

1. Double click on No Route with the pointer tool to clear any existing routes from the map. If you wish to delete the Holyhead to Howth route, right click on it and select delete.

2. Your position is 52° 45'N / 05° 43.5'W and you require a course allowing for tidal set to Arklow. Click the route tool icon, double click on the map at your approxiamate position, (note it can be adjusted later). Double click at the destination point (Arklow). A black line joins the points and a green line indicates the path of heading and tidal drift. You can enter as many points as you require, you are not limited to one. To end the process of entering route points click on the pointer tool

Double click with pointer tool to select a route, or, No route to start a new route

Use pointer tool to right click on route name or point name to reverse, delete, name or change properties

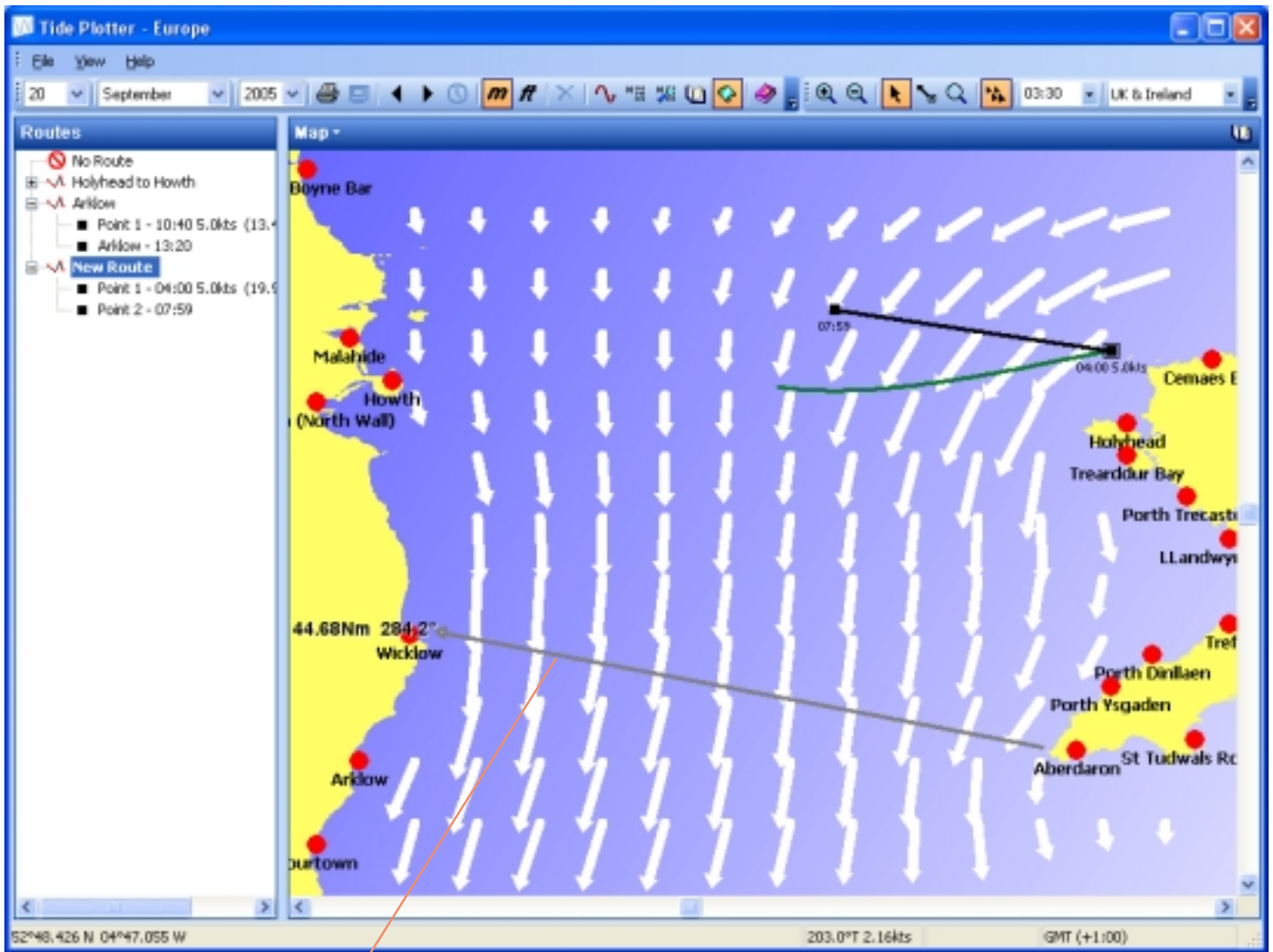
Select

- Reverse Route
- Delete
- Rename
- Properties...

Use the pointer tool to click and hold on a route point to move the position. A pop up box will indicate the lat/ long position. Right clicking enables the time and speed to be changed

Tidal streams - an overview

The tidal stream screen provides a range of information including tidal heights and times, tidal stream direction and speed, route planning to take account of tidal set, latitude and longitude positions, print facilities for passage details.



Use the pointer tool to click, hold and drag on the map to produce a line giving the length in nautical miles and the bearing from the start to finish of the line

Latitude and longitude position of the cursor displayed at the bottom right hand side of the screen

Direction and speed of tidal stream at the position of the cursor displayed middle right hand side of the screen.

Bottom left side of the screen displays the time zone

Route information displayed left hand side of the screen



Use the route tool to double click on screen to draw route legs.

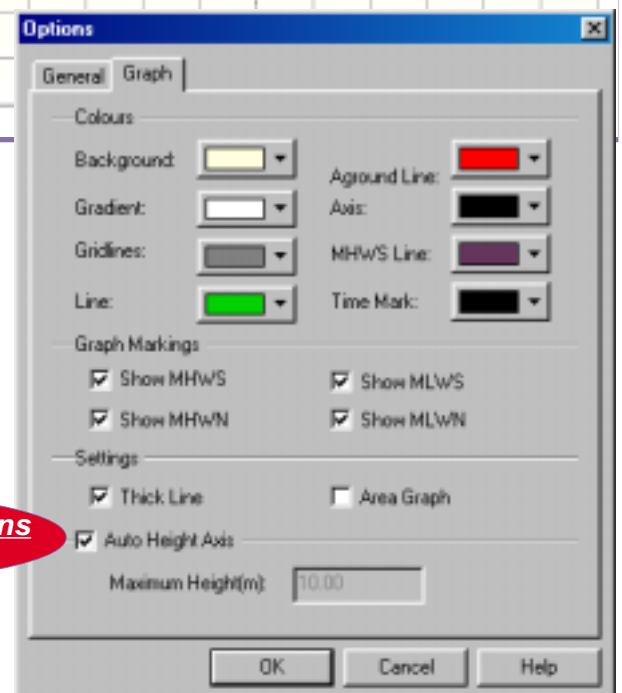
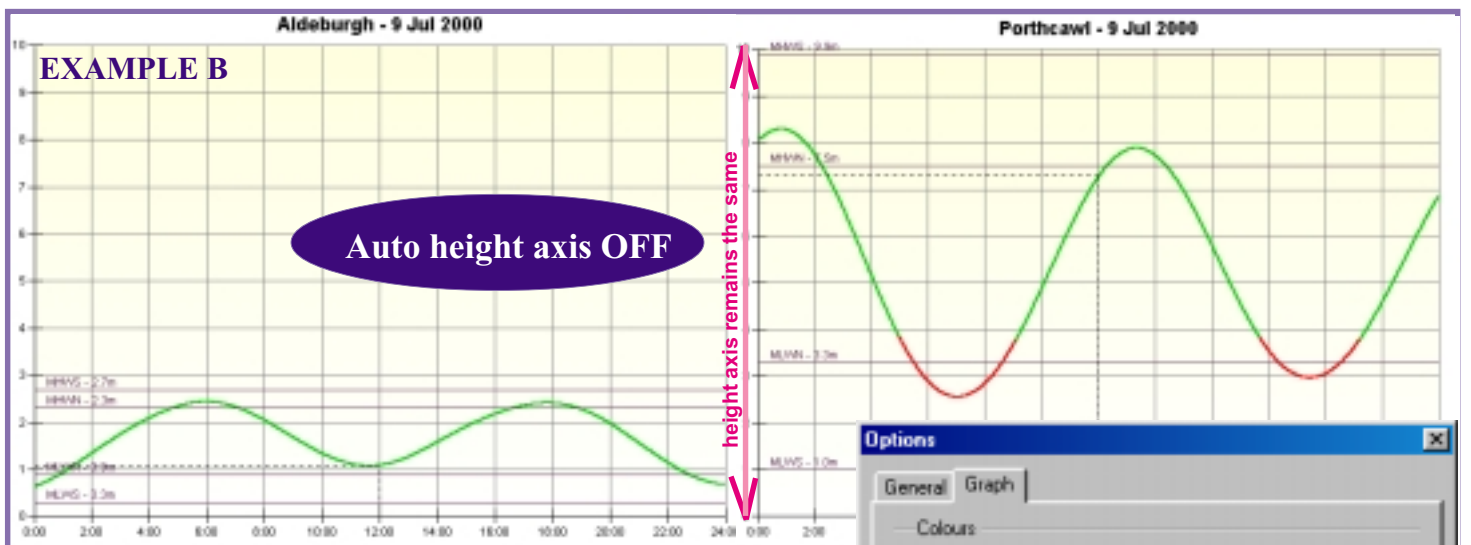
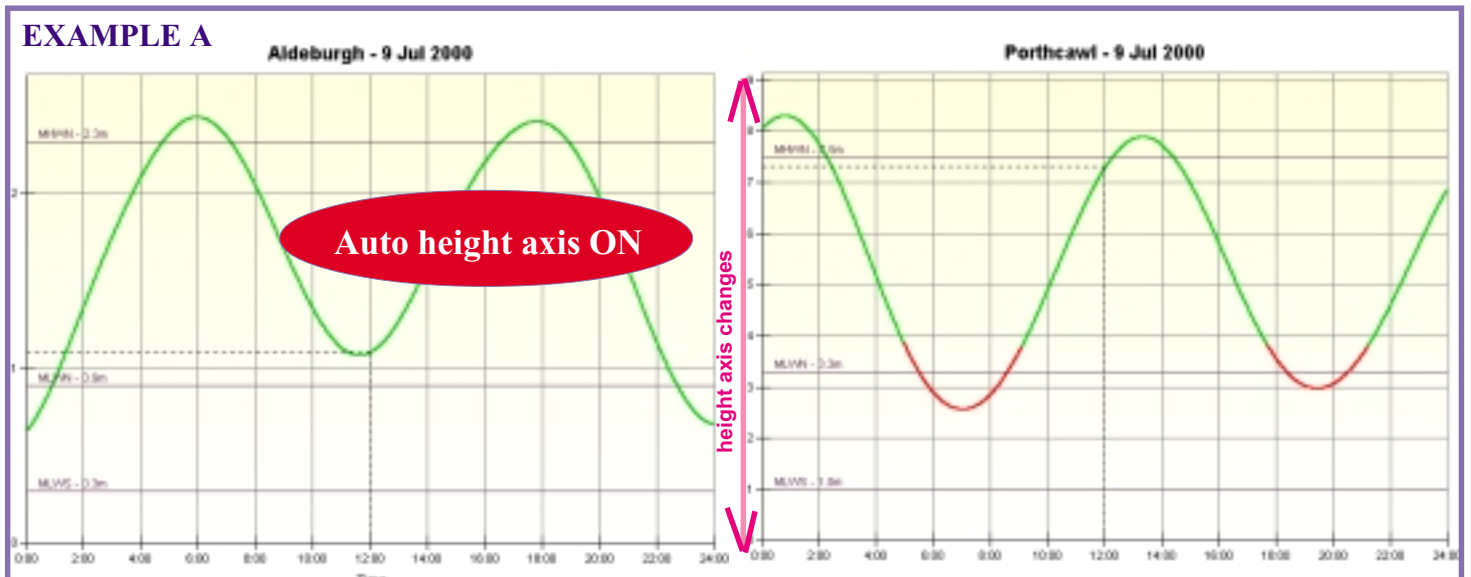
Tips

Using the right click on the mouse and double click can assist you navigating your way around the tidal stream map

Auto height axis

This feature can be accessed from the menu *View - Options* and the *graph tab*

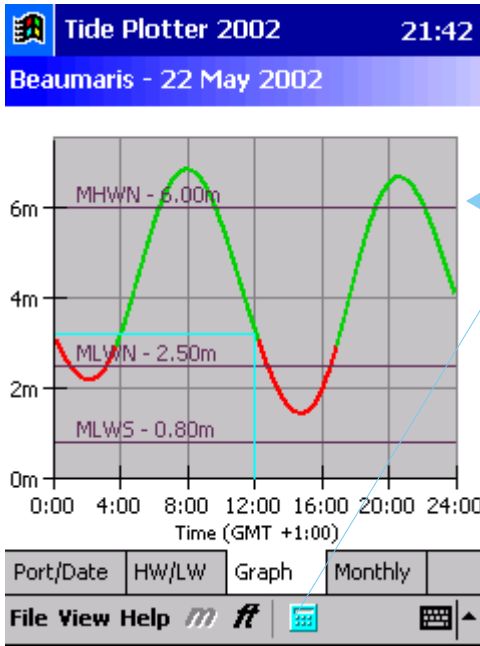
With the auto height feature on the graph is scaled to fit the space, thus giving more detail. If you require the height axis scale to remain the same for all graphs in order to make a visual comparison of the size of tides between different ports then switch this feature off.



access from the menu *View - Options*
and the *graph tab*

Tide Plotter - Windows Pocket PC version

To install the Pockert PC version: insert the CD into your PC, ensure that the PC is linked to your pocket PC. Select the Pocket PC version. Tide Plotter will then install directly onto the Pocket PC via your PC.



Day	Time	Height
17 Fri	02:29	7.05m
	09:10	1.48m
	14:57	6.73m
21:28	1.86m	
	03:17	6.82m
18 Sat	10:00	1.70m
	15:53	6.41m
	22:22	2.17m
19 Sun	04:16	6.60m
	11:03	1.89m
	17:02	6.16m
23:29	2.40m	

Port/Date HW/LW Graph Monthly

File View Help

22 May 2002

- England
- Scotland
- Ireland
- Wales
 - Aberdaron
 - Aberdovey
 - Aberporth
 - Aberystwyth
 - Amlwch
 - Barmouth
 - Barry
 - Beaumaris

Port/Date HW/LW Graph Monthly

File View Help

Port/Date HW/LW Graph Monthly

File View Help

The first screen gives the options to:

- select the date
- select a port

and then

click on the tab at the bottom to:

- produce a daily graph
- give HW and LW times and heights
- produce a monthly table

Note
Click on the View menu at the bottom of the screen to change:

- time zones
- draught of boat
- order of ports
- colour setup for graph
- running aground calculations

Time	Height
01:59	2.19m
07:51	6.83m
14:40	1.45m
20:34	6.66m

Port/Date HW/LW Graph Monthly

File View Help

Time: 12:00

Use Current Time

Depth of Water(m): 5.00

Height above Datum(m): 3.18m

Drop to Low Water(m): 1.73m

Draught of Boat(m): 0.00m

You will not ground at the next LW.
You will have 3.27m under your boat

Port/Date HW/LW Graph Monthly

File View Help

Ports

490 + UK, Irish & Channel Ports

Aber Benoit	Bucklers Hard	Dunbar	Ile Cezon	Mellon Charles	
Aberdaron	Bull Sand Fort	Dundee	Ile d' Ouessant	Menai Bridge	
Aberdeen	Bur Wick	Dungeness	Ile de Brehat	Methil	
Aberdovey	Burnham-on-Crouch	Dunkerque	Iles Chausey	Mevagissey	
Aberporth	Burntisland	Dunmore East	Iles Saint Marcouf	Mid Yell	
Aberystwyth	Burra Voe (Yell Sound)	Dury Voe	Ilfracombe	Milford Haven	
Adrossan	Burry Port	East Loch Tarbert (Fyne)	Immingham	Millport	
Aldeburgh	Bursledon	East Loch Tarbet	Inishtrahull	Minehead	
Allington Lock	Burton Stather	Eastbourne	Inner Dosing Light	Minsmere Sluice	
Amble	Burtonport	Eastham	Invergordon	Moelfre	
Amlwch	Cadzand (Wielingen Sluis)	Erquy	Inverness	Montrose	
Anse de Primel	Caernarfon	Etretat	Inward Rocks	Morlaix (Chateau du Taureau)	
Anstruther Easter	Caister-on-Sea	Europlatform	Iona	Mumbles	
Antifer (Le Havre)	Calais	Exmouth Approaches	Ipswich	Mupe Bay	
Antwerp	Calshot Castle	Exmouth Dock	Isle of Whithorn	Nab Tower	
Applecross	Campbeltown	Fair Isle	Itchenor	Nairn	
Appledore	Cancale	Falmouth	Jupiter Point	New Hythe	
Arbroath	Cardiff	Fanad Head	Kettletoft Pier	New Ross	
Ardglass	Cargreen	Faslane	Kiliala Bay (inishcrone)	Newhaven	
Ardnave Point	Carloway	Fecamp	Killybegs	Newport	
Arklow	Carradale	Felixstowe Pier	Kilmokea Point	Newquay	
Arromanches	Carrickfergus	Fidra	Kilrush	Nieuwpoort	
Baginbun Head	Carrigaholt	Fishguard	Kincardine	North Farnbridge	
Ballycastle Bay	Carsaig Bay	Flat Holm	Kings Lynn	North Woolwich	
Baltimore	Carteret	Fleetwood	Kinsale	Northney	
Bantry	Castle Bay	Folkestone	Kirkcaldy	Oban	
Barfleur	Castletown Bearhaven	Foreland (Lifeboat Slip)	Kirkwall	Omonville	
Barmouth	Castletownshend	Fort Belan	Knights Town	Oostende	
Barrow (Ramsden Lock)	Cayeux	Foula	Kyle of Lochalsh	Orford Haven Bar	
Barry	Cemaes Bay	Fowey	Larne	Orsay	
Bath	Chatham (Lock Approaches)	Fraserburgh	Le Harve	Osea Island	
Bawdsey	Cherbourg	Freshwater	Le Legue (Bouy)	Ouistreham	
Bay of Quendale	Chesil Beach	Galway	Le Senequet	Out Skerries	
Beachley (Aust)	Chesil Cove	Gill's Bay	Le Touquet, Etaples	Padstow	
Beaumaris	Chichester Harbour	Girvan	Le Treport	Par	
Bee Ness	Entrance	Gladstone Dock	Leith	Peel	
Belfast	Christchurch (Entrance)	Glasgow	Lerwick	Penzance(Newlyn)	
Bembridge	Christchurch (Tuckton)	Glengarrisdale Bay	Les Ecrehou	Perros-Guirec	
Berck	Christchurch Quay	Goole	Les Heaux de Brehat	Peterhead	
Berkeley	Clacton-on-Sea	Gorleston-on-Sea	Les Minquiers	Piampol	
Berwick	Cobh	Gott Bay	Leverburgh	Plockton	
Binic	Conwy	Goury	Lezardrieux	Ploumanach	
Blacksod Quay	Corpach	Grangemouth	Little Haven	Plymouth (Devenport)	
Blacktoft	Coryton	Granville	Littlehampton (Norfolk Wharf)	Poole (Entrance)	
Blyth	Cotehele Quay	Gravelines	Liverpool (Alfred Dock)	Poole Harbour	
Bognor Regis	Coulport	Great Yarmouth (Brit. Pier)	Lizard Point	Porlock Bay	
Bonawe	Courseulles-sur-Mer	Greenock	Llandudno	Port Appin	
Boscastle	Courtown	Greenway Quay	Llandwyn Island	Port Askaig	
Boston	Coverack	Grimbsby	Loch a' Bhraige	Port Cardigan	
Boudewijnsluis	Cowes	Halfway Shoal	Loch Beag	Port Dinorwic	
Bouley Bay	Craighouse	Hansweert	Loch Bervie	Port Ellen	
Boulogne-Sur-Mer	Craignure	Hartlepool	Loch Boisdale	Port Erin	
Bournemouth	Criccieth	Harwich	Loch Carnan	Port Isaac	
Bradwell Waterside	Cromarty	Hastings	Loch Houran	Port of Bristol (Avonmouth)	
Bramble Creek	Cromer	Haws Point	Loch Laxford	Port St Mary IOM	
Braye	Cushendun	Helmsdale	Loch Inver	Port Talbot	
Brest	Dahouet	Herne Bay	Loch Melfort	Port-Beni	
Bridlington	Dartmouth	Hestan Islet	Loch Ranza	Port-en-Bessin	
Bridport (West Bay)	Deal	Heysham	Loch Shell	Portavogie	
Brightlingsea	Dielette	Hilbre Island	Loch Snizort (Uig Bay)	Portbail	
Brighton	Dieppe	Hinkley Point	Lochgoilhead	Portbail	
Broadford Bay	Dives	Hoek Van Holland	Locquirec	Porth Dinllaen	
Broadhaven	Dornie Bridge	Holyhead	London Bridge	Porth Treacastell	
Brodict Bay	Douglas	Honfleur	Londonderry	Porth Ysgaden	
Brouwerschavensche	Dover	Howth	Loth	Porthcawl	
Gat	Drummore	Hull (Albert Dock)	Lowestoft	Porthgain	
Bruichladdich	Dublin (North Wall)	Hull (King George Dock)	Lundy	Porthleven	
Buckie		Hullbridge	Lyme Regis	Portland	
		Humber Bridge	Lymington	Portmore	
		Hunstanton	Machrihanish	Portnancon	
		Hurst Point	Malahide	Portpatrick	
		ljmuiden	Mallaig	Portrieux	
			Margate	Portrush	
			Martins Haven	Portsmouth	
			Maseline Pier	Pottery Pier	
			McDermott Base	Pwllheli	

Quoile Barrier
 Rade de la Capelle
 Ramsey
 Ramsey Sound
 Ramsgate
 Rapness
 Redbridge
 Richborough
 Ringaskiddy
 River Boyne Bar
 River Foyle
 River Tees Entrance
 River Tyne N Shields
 River Yealm Entrance
 Roa Island
 Roberts Cove
 Rochester (Strood Pier)
 Rockall
 Rona
 Roompot Buiten
 Roscoff
 Rosneath
 Rosslare Harbour
 Rosyth
 Rothesay Bay
 Rotterdam
 Royersluis
 Rubha A' Mhail
 Rubha Bodach
 Ryde
 S.E. Long Sand
 Salcombe
 Salen, Loch Sunart
 Salen, Sound of Mull
 Saltash
 Sandettie Bank
 Sandown
 Scarborough
 Scheveningen
 Scolpaig
 Scrabster
 Seil Sound
 Selsey Bill
 Sheerness
 Shivering Sand
 Shoreham
 Skegness
 Skull
 Slaughden Quay
 Solva
 Sound of Gigha
 Southampton
 Southend, Kintyre
 Southend-on-Sea
 Southwold
 Spurn Head
 St Cast
 St Catherine Bay
 St Helier
 St Malo
 St Marys
 St Peter Port
 St Thomas Head
 St Tudwals Roads
 St. Ives
 St. Kilda
 St. Marys
 St. Vaast-la-Hougue
 St. Valery-en-Caux
 Stackpole Quay
 Stansore Point
 Starcross
 Start Point
 Stavenisse
 Steep Holm
 Stonehaven
 Stornoway
 Stromness

Sule Skerry
 Sullom Voe
 Sumburgh (Grutness
 Voe)
 Sunderland
 Sunk Head
 Swanage
 Swansea
 Tabs Head
 Tarbert Island
 Teignmouth Approches
 Teignmouth Shaldon
 Bridge
 Tenby
 Terneuzen
 Tighnabruich
 Tilbury
 Tingwall
 Tobermory
 Toft Pier
 Torquay
 Totland Bay
 Totnes
 Treaddur Bay
 Trebeurden
 Trefor
 Treguier
 Troon
 Trouville
 Tryn Dinmor
 Turnchapel
 Ullapool
 Ventnor
 Vlissingen
 Wadebridge
 Walton-on-the-Naze
 Warrenpoint
 Warsash
 Watchet
 Wellhouse Rock
 Wells
 West Loch Tarbert
 West Mersea
 West Stones
 Westkapelle
 Weston-super-mare
 Wexford Harbour
 Whitaker Beacon
 Whitby
 White House
 Whitehaven
 Whitehills
 Wick
 Wicklow
 Winterton-on-Sea
 Wissant
 Workington
 Wouldham
 Yarmouth
 Yelland Marsh
 Youghal
 Zeebrugge

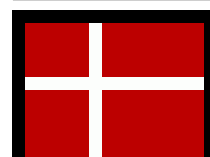
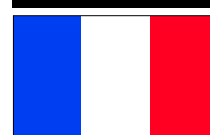
Additional ports on the European version

Berlevag
 Honningsvåg
 Hammerfest
 Tromsø
 Harstad
 Evenskjer
 Andenes
 Risøyhamn
 Kabelvåg
 Lodingen
 Narvik
 Bodo
 Finneid
 Mo I rana
 Sandnessjøen
 Mosjøen
 Bronnoysund
 Rorvik
 Trondheim
 Heimsjø
 Kristiansund
 Aalesund
 Maløy
 Kjølshald
 Florø
 Bergen
 Leirvik
 Haugesund
 Utsira
 Stavanger
 Tregde
 Arendal
 Nævlunghavn
 Helgeroa
 Horten
 Oscarsborg
 Oslo
 København
 Hombæk
 Korsør
 Gedser
 SlipsHAVN
 Fredericia
 Arhus
 Fredrikshavn
 Skagen
 Hirtshals
 Hantsholm
 Thyboron
 Torsminde
 Hvide Sande
 Esbjerg
 Havneby (Romo)
 Husum
 Helgoland
 Busum
 Cuxhaven
 Brunsbüttel
 Hamburg
 Bremerhaven
 Bremen
 Wilhelmshaven
 Norderney (Riffgat)
 Borkum (Fischerbalje)

Emden
 Antwerp
 Boudewijnsluis
 Royersluis
 Cadzand (Wielingen Sluis)
 Camaret
 Morgat
 Douarnenez
 Ile de Seine
 Audierne
 Le Guilvinec
 Loctudy
 Benodet
 Concarneau
 Ile de Penfret
 Port Louis
 Lorient
 Port Tudy
 Port Haliguen
 Le Palais
 La Trinite
 Port Navalo
 Auray
 Arradon
 Vannes
 Le Logeo
 Ile de Hoedic
 Peneff
 Le Croisic
 Le Pouliguen
 Le Grand Charpentier
 Pornichet
 St Nazaire
 Donges
 Le Pellerin
 Nantes (Chantenay)
 Pomic
 L'Herbaudiere
 Fromentine
 Port Joinville
 St Gilles-Croix-de-Vie
 Les Sables d' Olonne
 St Martin
 La Pallice
 La Rochelle
 Ile d' Aix
 Le Chapus
 La Cayenne
 Pointe de Gauseau
 Royan
 Pointe de Grave
 Richard
 Lamena
 Pauillac
 Bordeaux
 Cap Ferret
 Arachon (Eyrac)
 Boucau
 Socoa
 Pasajes
 Portugalete (Bilboa)
 Santander
 Gijon
 Aviles
 El Ferrol del Caudillo
 La
 Coruna

Villagarcia
 Marin
 Vigo
 Viana do Castelo
 Porto de Leixoes
 Rio Douro
 Entrance
 Oporto (Porto)
 Barra de Aveiro
 Figueira da Foz

Peniche
 Cascais
 Paco de Arcos
 Lisbon
 Alcochete
 Vila Franca de Xira
 Sesimbra
 Setubal
 Porto de Sines
 Lagos
 Cabo de Santa Maria
 Vila Real de Santo Antonio
 Ayamonte
 Ria de Huelva Bar
 Rio Guadalquivir Bar
 Bonanza
 Corta de los Jeronimos
 Sevilla
 Rota
 Puerto de Santa Maria
 Puerto Cadiz
 La Carraca
 Cabo Trafalgar
 Barbate
 Punta Camarinal
 Tarifa
 Punta Carnero
 Algeciras
 Gibraltar
 Sandy Bay



**There is
 also an
 East Coast
 of
 America
 and
 Australian
 version**

Time zones



Tide plotter uses different time zones:

GMT(+3:00)	
GMT(+2:00)	Continental summer
GMT(+1:00)	British Summer Time
GMT	British Winter
GMT(-1:00)	
GMT(-2:00)	
GMT(-3:00)	
Automatic	Gives the tide times in real time

Note GMT(+2:00) will add 2 hours to GMT. Example:
08:00 GMT = 10:00 GMT(+2:00).

This time zone will give the real time in France during the Summer months.

This enables you to choose between UK winter time (GMT), UK summer time (BST) and continental daylight saving time (BST with one hour added). All displays on the graph and in the monthly tables can be shown in real time whenever, or wherever you are.

Automatic will adjust to real time depending on the Port and the date. If you set Tide Plotter to automatically set the time zone, then it will use real local time and make all necessary adjustments

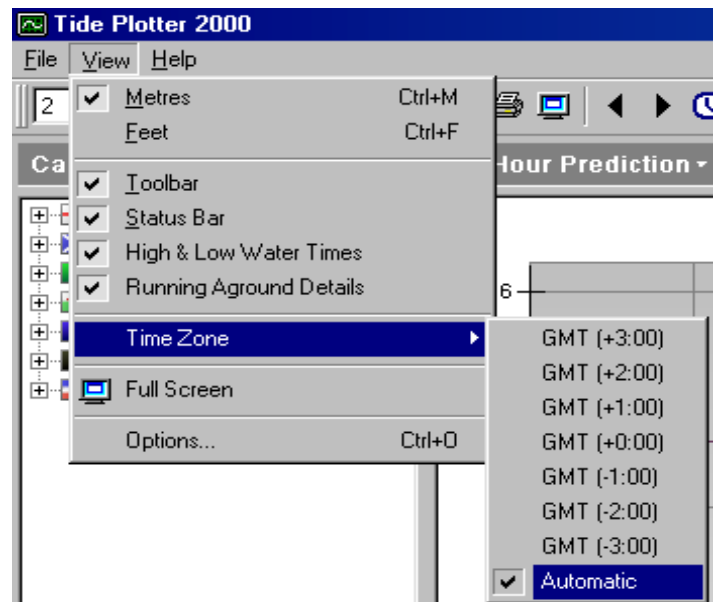
To set the time zone:

click on the menu View

select time zone

and check the desired time zone.

the necessary time and date adjustments.



Useful tips and hints

When Tide Plotter is loaded a box appears giving useful (and useless) tips and hints. If you do not want this to appear each time then it can be switched off by marking the check box. It can also be accessed from the 'help' menu.

Re-sizeable screen

The size of the screen can be enlarged or reduced by clicking on the corner and dragging in or out. VGA is the lowest resolution possible.

Upgrades

Tide Plotter is produced annually. Each year the previous year's data is included as well as the current year. The new version is available each year in September in time for the Southampton Boat Show.

Tide Plotter can be purchased directly from the **Internet**: www.belfieldsoftware.co.uk

To purchase a copy **by post** please contact:

Belfield Software

11 Knutswood Close, Kings Heath

Birmingham, B13 0EN

Tel: 078 111 99 567, or, 0121 777 6756

Fax: 0870 705 9180

Evaluation copies of tide Plotter are available on the **Internet**. Data download and update can be accessed by this method. Go to:

<http://www.tideplotter.co.uk>

Email for further information on: enquiries@belfieldsoftware.co.uk

Your comments and suggestions for developing further editions would be welcome.

www.tideplotter.co.uk

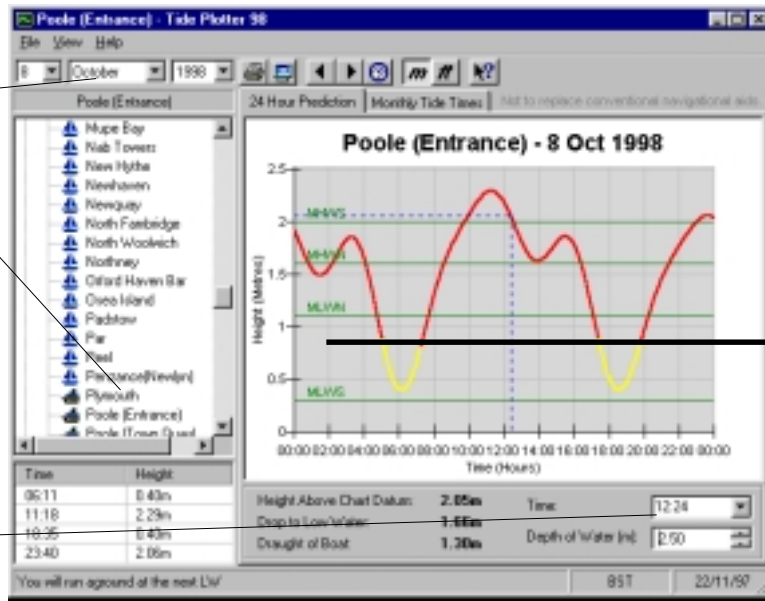
Some practical applications for Tide Plotter

Tide graph - example 1

Finding out detailed tidal information for Poole on the 8 October 1998

Select the date.
 Select England.
 Select Poole (Entrance) & press 'enter'.
 After a few seconds (time depends on processing power of your computer) the graph will appear on your screen.

What will be the height of the tide at 12:24?
 Enter 12:24 in the time box. (if you click on the clock icon Tide Plotter constantly updates to the current time)
 The height above chart datum is shown

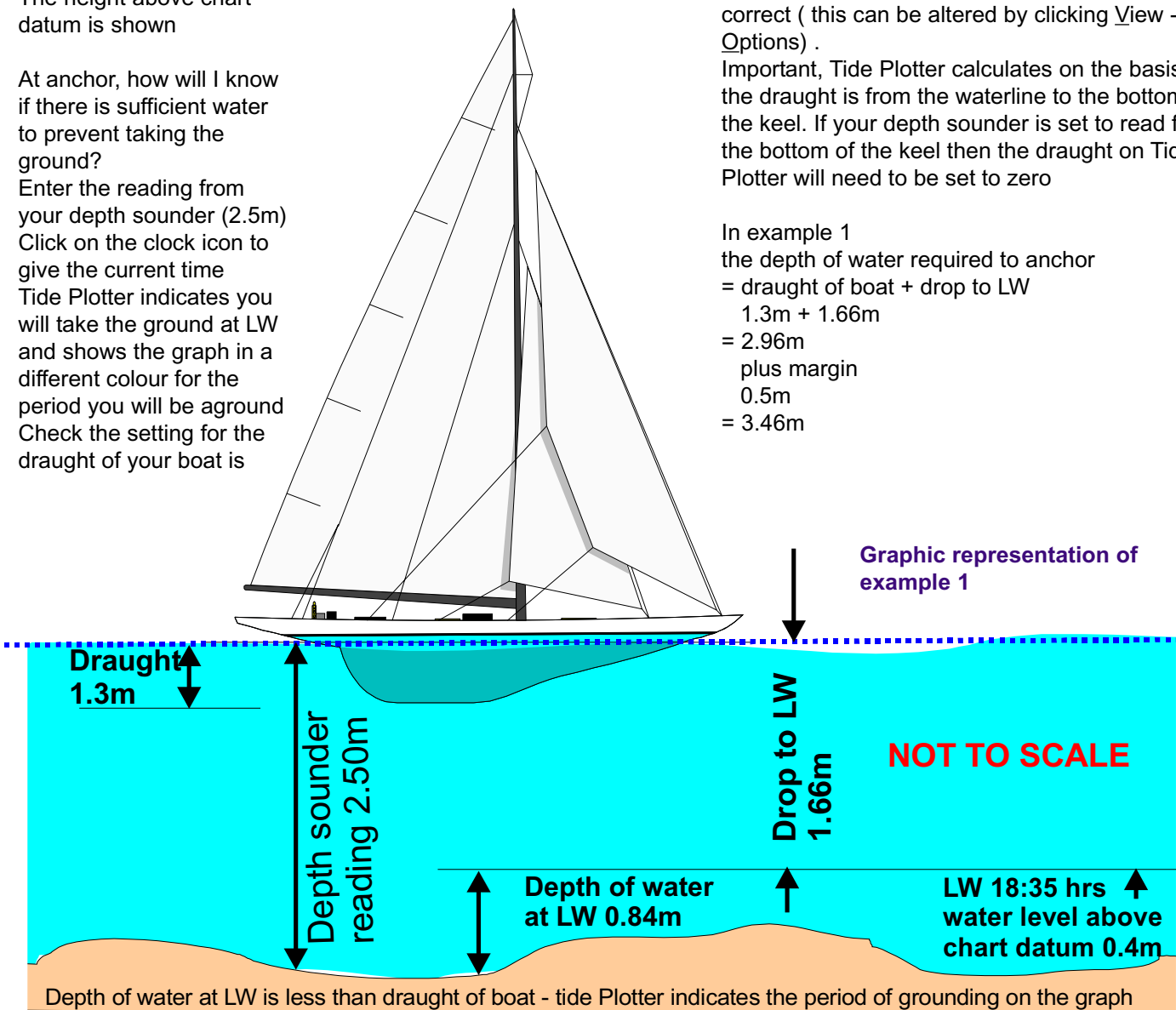


With the time at 12:24 and the depth sounder reading 2.50m from the waterline, Tide Plotter shows a different colour on the graph to indicate the period of taking the ground

At anchor, how will I know if there is sufficient water to prevent taking the ground?
 Enter the reading from your depth sounder (2.5m)
 Click on the clock icon to give the current time
 Tide Plotter indicates you will take the ground at LW and shows the graph in a different colour for the period you will be aground
 Check the setting for the draught of your boat is

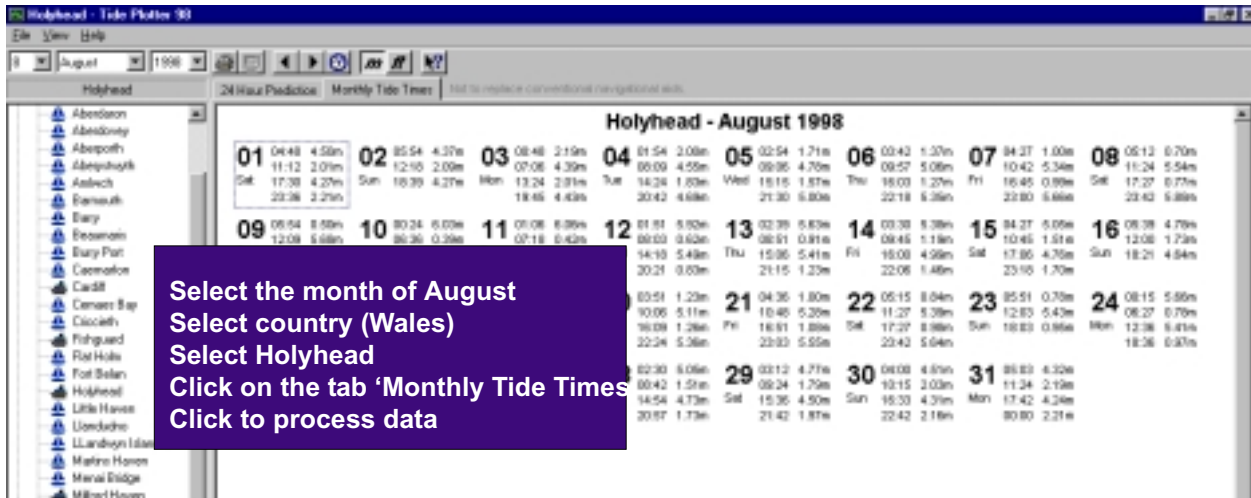
correct (this can be altered by clicking View - Options) .
 Important, Tide Plotter calculates on the basis that the draught is from the waterline to the bottom of the keel. If your depth sounder is set to read from the bottom of the keel then the draught on Tide Plotter will need to be set to zero

In example 1
 the depth of water required to anchor
 = draught of boat + drop to LW
 1.3m + 1.66m
 = 2.96m
 plus margin
 0.5m
 = 3.46m



Monthly tables - example 2

Spending a fortnight sailing and fishing at Holyhead during August. Need details of tides to plan activities.



Tide height finder - example 3

Height finder

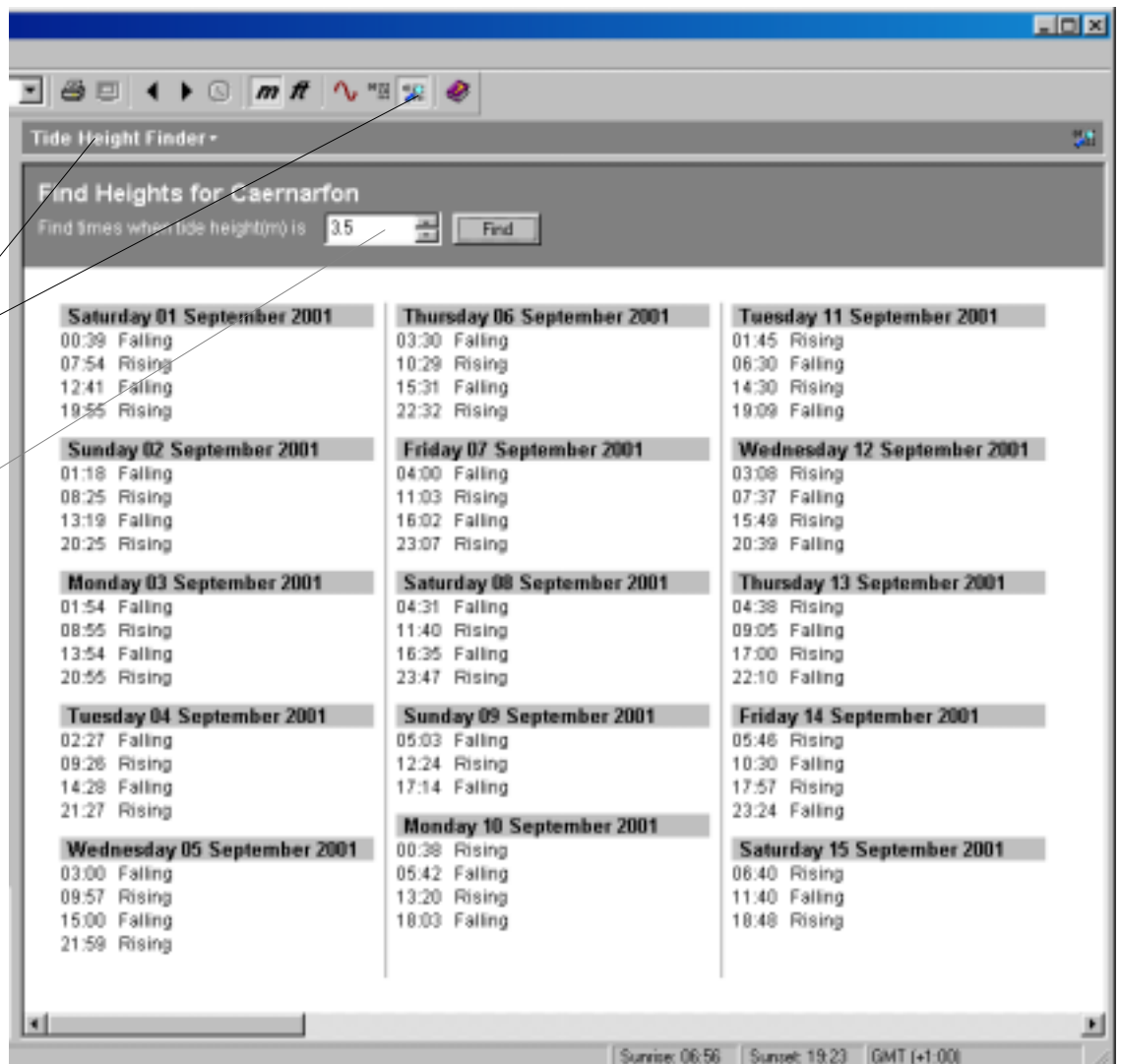
I need to know at what time I can enter the dock at Caernarfon. The lock is only open when the water level is 3.5m or above (CD)

Click on to Height Finder.

Enter height above chart datum

Table is calculated giving estimated times when the tide will reach 3.5 m above chart datum. At that height Tide Plotter indicates if the tide is rising or falling.

This data can also be exported into text or HTML format for use in other applications



Tide log - example 4

Tide Log enables you to select any port for any day of your own choosing, thus enabling you to build up your own specific log for your passage.

To select the port: click on the small box in the port grid

To select the day: click on the small box in the date grid

You can additionally select the height for any given time: click in the time grid

The screenshot shows the 'Tidal Log' window with a table of tide data. The table has columns for Port Name, Date, Time Zone, and four High Water/Low Water (HW/LW) pairs, each with a Time and Height. The row for Baginbun Head on 25 Apr 2003 is highlighted. A date picker is open for April 3rd, and a detailed view of the data for Baginbun Head on April 3rd at 12:00 is shown in a separate window.

Port Name	Date	Time Zone	HW/LW (1)	HW/LW (2)	HW/LW (3)	HW/LW (4)	Time	Height
Amble	15 Jul 2002	GMT (+1:00)	01:14 (1.51m)	07:23 (5.18m)	13:50 (1.01m)	20:07 (4.74m)	12:00	1.72m
Baginbun Hea	25 Apr 2003	GMT (+1:00)	01:31 (3.10m)	08:03 (1.60m)	14:13 (2.93m)	20:33 (1.55m)	12:00	2.57m
Bouley Bay	19 Sep 2003	GMT (+1:00)	00:01 (7.78m)	06:26 (3.97m)	12:25 (7.63m)	19:00 (4.10m)	12:00	7.59m
Corwy	20 Sep 2003	GMT (+1:00)	00:05 (3.14m)	08:06 (5.62m)	12:41 (3.29m)	18:47 (5.75m)	12:00	3.35m
Barfleur	17 Jul 2002	GMT (+2:00)	03:49 (5.95m)	10:25 (1.80m)	16:28 (5.78m)	22:56 (2.12m)	12:00	2.47m
Cobh	11 Dec 2003	GMT (+0:00)	00:39 (0.70m)	06:35 (3.84m)				0.92m
Bonawe	17 Jul 2002	GMT (+1:00)	01:45 (1.93m)	08:41 (0.65m)				1.33m
Beaumaris	18 Apr 2003			07:10 (0.21m)				8.35m

HW/LW (4)	Time	Height
(4.74m)	12:00	1.72m
(1.55m)	12:00	2.57m
(4.10m)	12:00	7.59m
(5.75m)	12:00	3.35m
(2.12m)	12:00	2.47m
(3.74m)	12:00	0.92m
(0.64m)	12:00	1.33m
(0.04m)	12:00	8.35m

The 'Select Port' dialog box shows a list of ports in England. The list includes: Aldeburgh, Allington Lock, Amble, Appledore, Barrow (Ramsden Lock), Bawdsey, Beachley (Aust), Bee Ness, Berkeley, Berwick, Blacktoft, Blyth, Bognor Regis, Boscastle, Boston, and Bouley Bay. The 'OK' and 'Cancel' buttons are at the bottom.

To delete a line of your log: right click on that line and select 'delete'.

To go to the large 24 hr graph from your tide log: right click on that line and select 'goto graph'.

MOTOR BOATS

WIN **£1500** of safety gear

May 2006 • £3.70

FULL TEST



Hardtop heaven in the Sabreline 42

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Design the boat of your dreams

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How the Government joined the fight to save red diesel

North Wales
The ultimate insiders' guide

Latest review

Jeanneau 655MF

£35k buys you the perfect starter



Fairline Targa 34

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NEW SERVICE
Get the best from the market



...that there are other useful things the Tide Plotter can do for you. Tide Plotter software covers all of the UK coastline and Europe, from Norway down to Gibraltar. Strongly, our version also included Australia and Tasmania! But we think this may be due to an upcoming launch Down Under. The only fault we could find would only affect anyone boating over the New Year. If you advance one day

£21.95 for the three-year version. For that money, can you really afford not to have one?

Price: from £10.95
Enquire: [belfieldsoftware.co.uk](http://www.belfieldsoftware.co.uk)
Tel: 0191 777 6752

Garrick - December 2001					
01	02	03	04	05	06
07	08	09	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31					

Simple, clear layout, and easy-to-navigate menus

....we wished we discovered it sooner... all those wasted hours working out the east coast tides, or what times we could access one drying harbour after another!

Tide Plotter takes away the hard work of secondary port calculations, and if you're on a drying mooring, there is a fantastic section that will tell you exactly what times you can get on and off.....

...can you really afford not to have one?

Reviews - what the Press have to say

Rating - 5 Star

Sailing Today

Belfield's tidal program is designed to take the hard work out of tidal calculations. It uses the latest harmonic constants from the Hydrographic Office, the program includes data for over 480 primary and secondary ports for the year 2000.

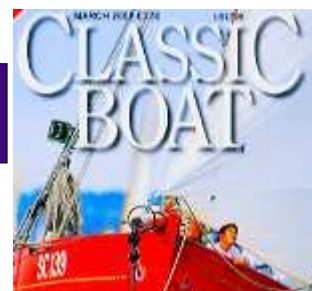
Verdict

Excellent value for money and easy to use



Classic Boat

If you hold onto last year's almanac you can do all your passage planning before you reach the boat. **A simple to use and reasonably priced piece of sailing kit**



Yachting Monthly

When we first downloaded Tide Plotter **we were instantly impressed** by the ease of installation and the clarity of the information as it was displayed. As well as containing full tidal data for 490 UK and North European ports, the program will draw a tidal curve of any port and indicate with dotted lines, the height at any given time (can be set to the current time). With draught details of your own vessel entered once only, the program will always indicate your own crunch times. With the ability to print both tables and curves, you might never need to buy a tide table or draw your own curves again.



Sea Angler

Now you can see all the tidal predictions for one year on your PC. Thanks to Belfield Software, all the information you need is on disc. The main feature of the program is that it is extremely easy to use. Very affordable at £9.95 inc.



Total Sea Fishing

This is a godsend for anyone who fishes regularly and owns a PC. The CD is easy to use and contains a mass of tidal information for the UK, Ireland and Channel Ports. All you have to do is pop the CD into your computer and follow the on-screen instructions.

What have the press been saying...

Photo gallery

We have added a free utility to the Tide Plotter CD. Photos of water related activities. The files are in a JPEG format which are readily accessible by virtually all modern computers. There are three sizes of the files: large, medium and thumbnail; the large files average 2 - 5 mb in size, thus enabling the pictures to be used for good quality printed products. The medium size files are suitable for website applications. High quality gloss prints on photo paper can be ordered: A4 size at £5.95, or, A3 size at £9.95. Telephone 0121 777 6756

The files are in three different directories on the CD. One directory contains small thumbnail pictures, the second contains pictures screen size and the third with large files suitable for printing up to A4 size. We have also included a picture viewer to make it easy to view the photos. If you already have a utility to view the pictures then this can be used equally effectively. There are also a range of photos on our website at www.tideplotter.co.uk/photos

Copying files to your hard drive:

- Insert the CD and select 'Photo gallery'
- Select the file to copy
- Click on file and save
- You will be given a choice of large, medium or small
- Save to a directory of your choice onto your computer

Using the photos on the web

Save the required file as 'small'

Using the files for print output.

- Use the large size files for best results
- You will get good resolution up to A3 size prints
- Use your graphics package to present and manipulate the photos.

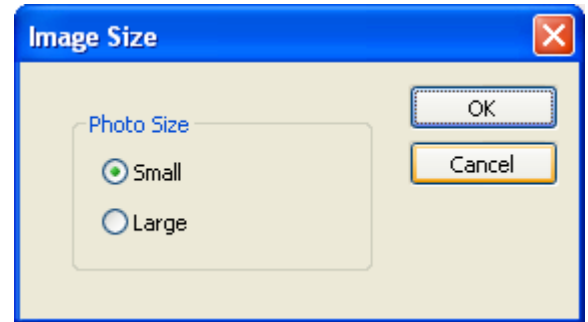
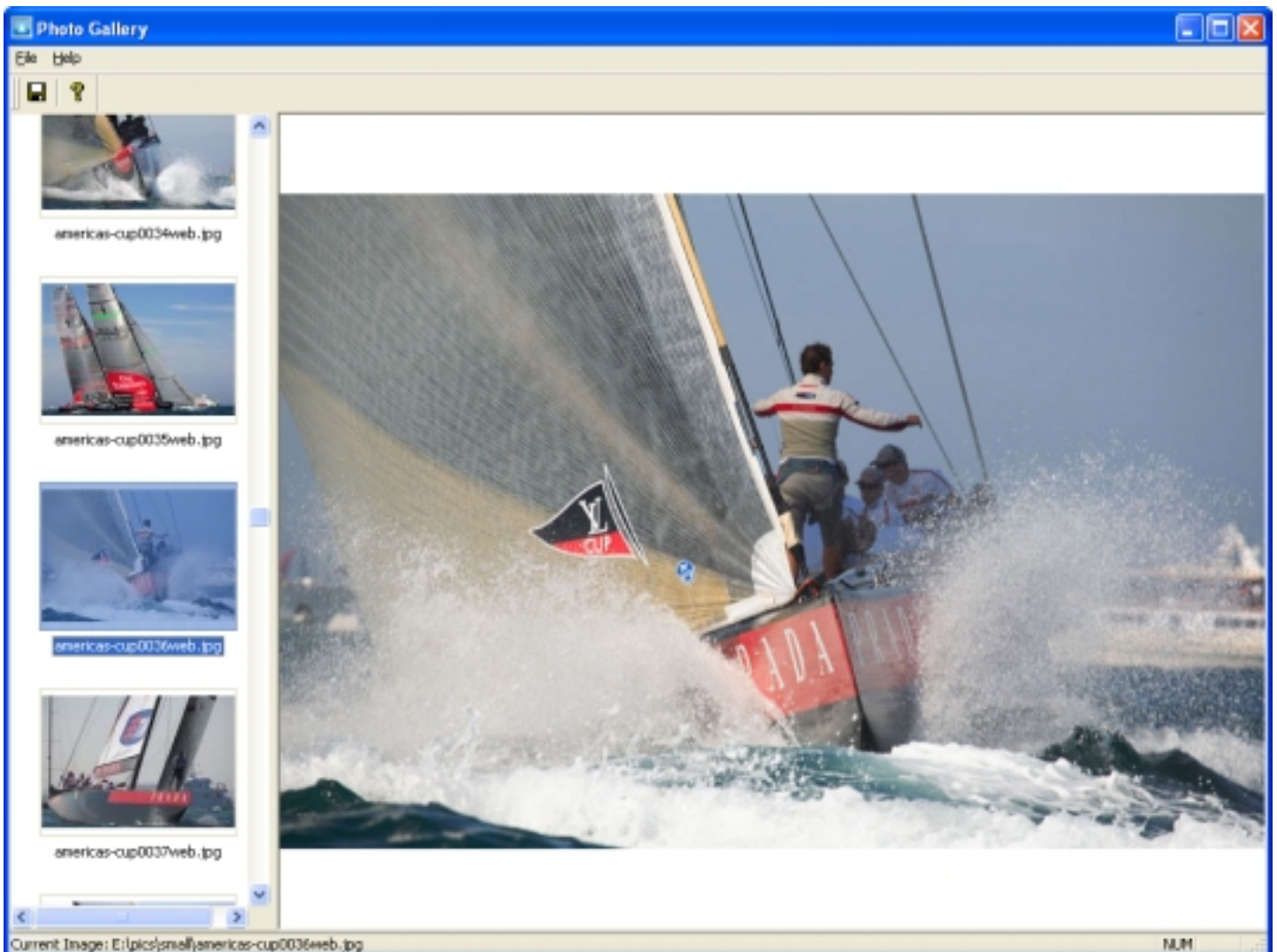


Photo Gallery



A selection of some of the latest photos in the gallery



Working with Tides

'Working with Tides' is a book contained on the CD in pdf format. It contains a wealth of both theoretical and practical information about: how tides work, what causes them, how we can predict them and a series of practical exercises.

Extremely useful for anyone using tidal shores or waters, or, if you are undertaking an examination syllabus.

Hard copies of this book can be purchased direct from Belfield Software Ltd, tel: 0121 777 6756.

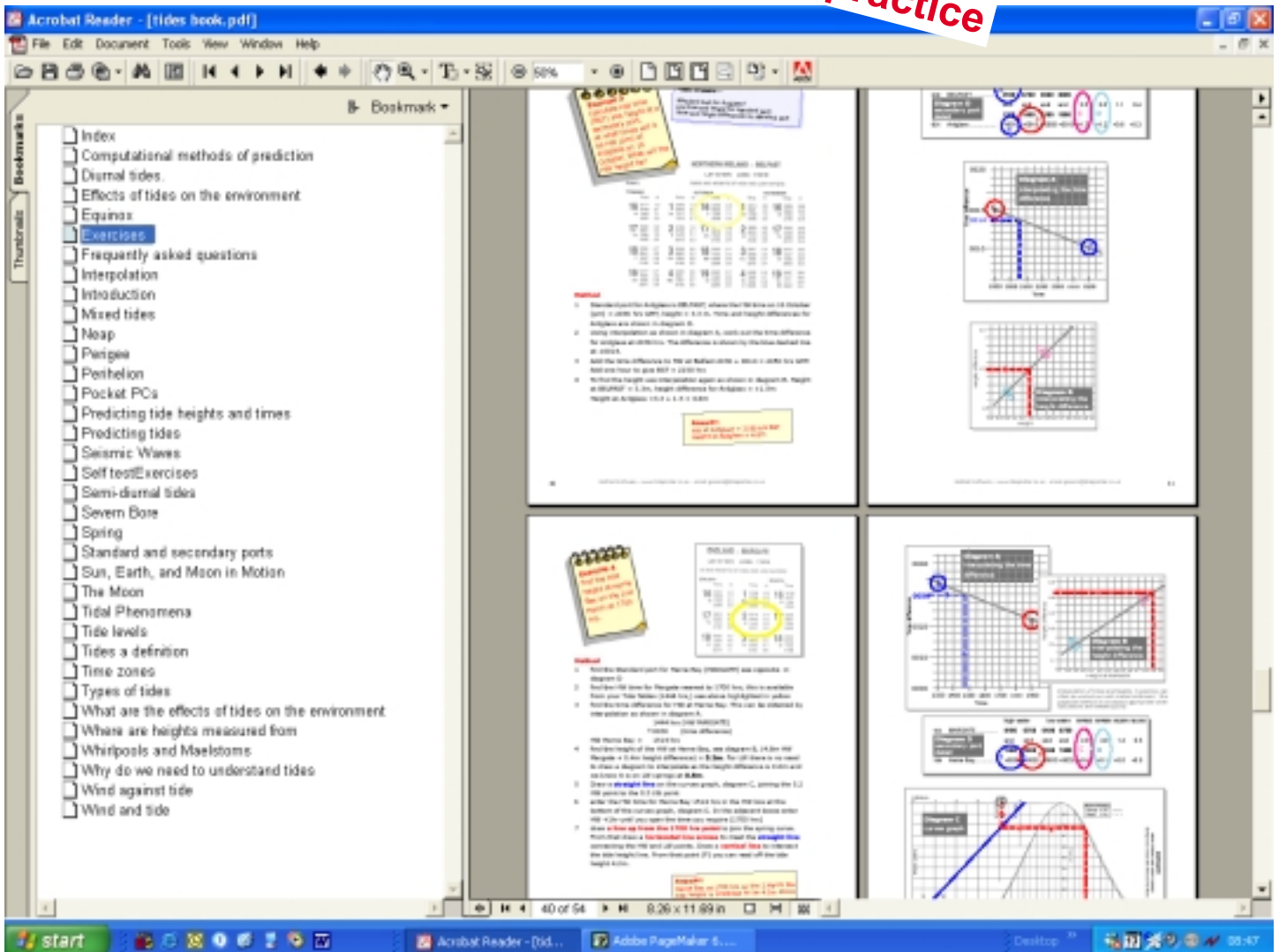
sun and earth during the monthly cycle, 29.53 days. The gravitational pull of the moon and sun vary as they are at changing angles to each other.

At a new or full moon the gravitational pull of the sun and moon are directly together, increased gravitation causes the greatest high tides and these tides are called 'Spring' tides, a 'spring' that just means a 'spring up' of the water and has no bearing on the season of the year.

At the first and third quarter of the cycle the gravitation of the sun and moon are no longer in line with one another but are at right angles to one another with the gravitational pull of each one countering the other; thus the range of the tide is considerably reduced. Such tides of less than

Neap tides fall when the moon is in the quarter phase with the earth at right angles to the earth

theory and practice

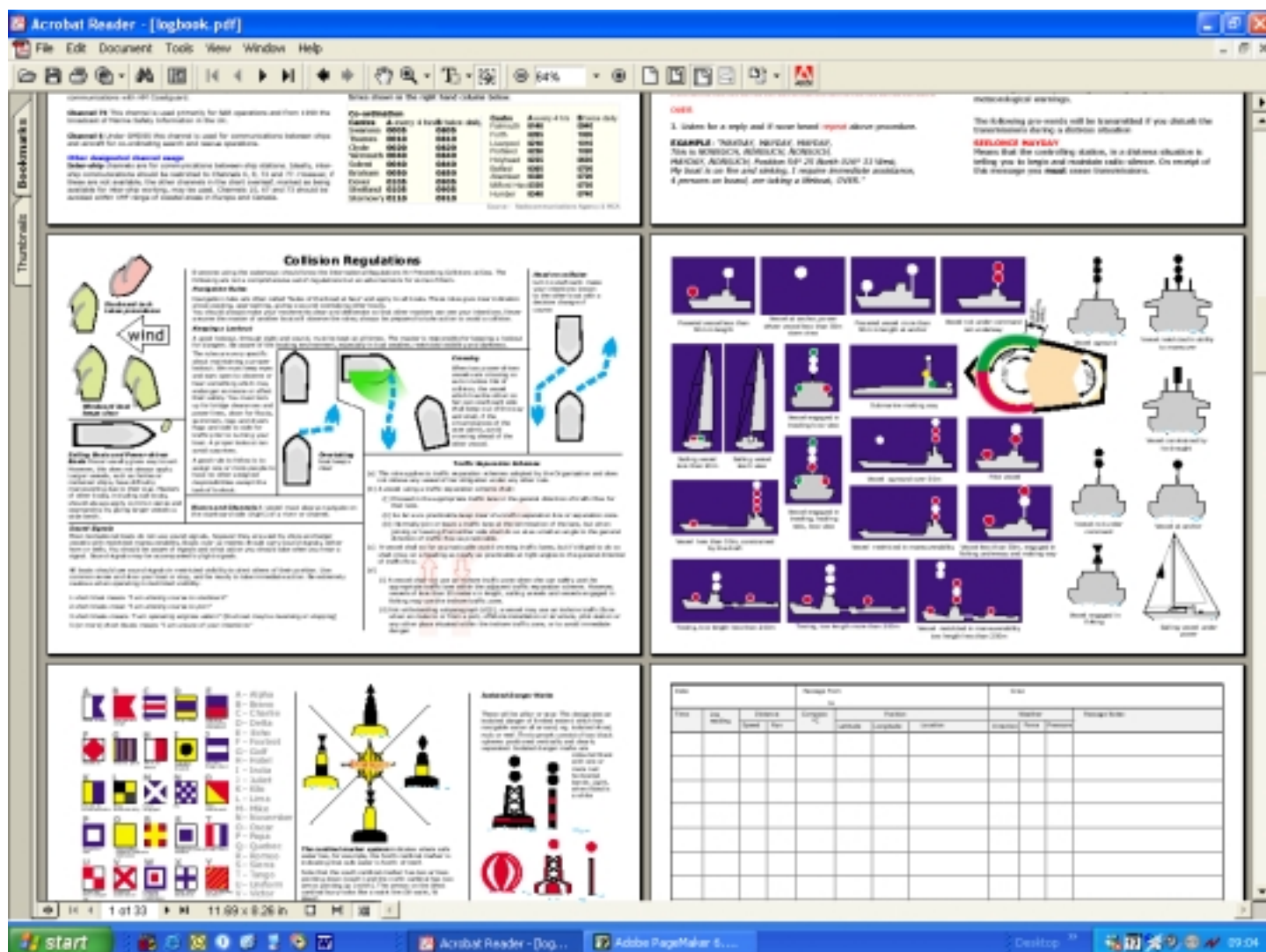


Logbook

Contained on the CD in pdf format, suitable for viewing on screen or printing out. Alternatively it can be purchased as a hard copy from Belfield Software Ltd, tel: 0121 777 6756.

This Log Book contains an abridged summary of some of the signals, marks and information that can assist in navigation and avoidance of dangerous situations.

- Life Saving Signals to be used by Ships, Aircraft or Persons in Distress
- Shipping Forecast
- VHF Channels - Distress, Safety and Calling Channels
- DISTRESS TRANSMITTING PROCEDURES
- Collision Regulations
- Navigation Lights and Day Marks
- International Code Flags and Buoyage System
- Log Book
- Weather Forecast Log
- Passage Planning Notes



Mobile phone

Tide Plotter is available for use on certain types of mobile phones.

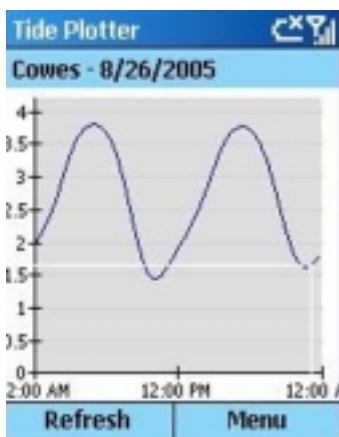
In order for Tide Plotter to be installed on your mobile phone you will need a phone that supports the Windows Mobile operating system, for example the Orange SPV 100 or SPV 200 or C500. Please consult you phone operating instructions to see if Windows Mobile is supported.



To install on your mobile phone:
 connect the phone to your PC via the synchronisation cable
 insert the Tide Plotter CD into you PC
 from the installation menu select the mobile phone option
 follow the on screen instructions
 please note you will require the serial code that you will have purchased

The mobile version gives you all the day to day graphs and height information that you will need in any practical situation. It does not give the monthly tables which can be produced from your PC and are particularly useful for long term planning. The monthly tables can, however, be copied and pasted into the calendar of your mobile phone, or, Palm - see next page for details. Please note this is not necessary for the Pocket PC as Tide Plotter can be downloaded directly to the Pocket PC device.

The features on the phone version of Tide Plotter include:



Tide Plotter	
Southampton - 7/25/2004	
Times	Heights
5:36 AM	4.0m
10:56 AM	1.5m
6:18 PM	4.2m
11:31 PM	1.7m
Menu	

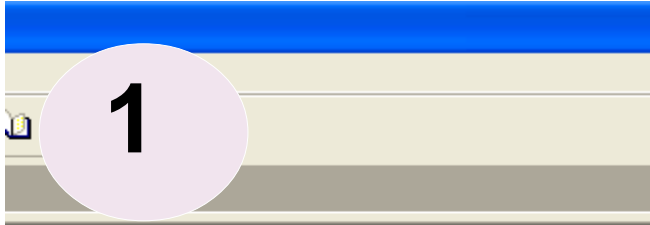
High and Low water times



Transferring monthly tables to your mobile device

Please note this is not relevant if you have a Pocket PC, Tide Plotter can be downloaded directly to this type of device. If you have a Palm handheld or a mobile phone that synchronises with your PC calendar, you can very easily and quickly transfer monthly tables from Tide Plotter to the calendar on you mobile device.

The procedure is as follows:

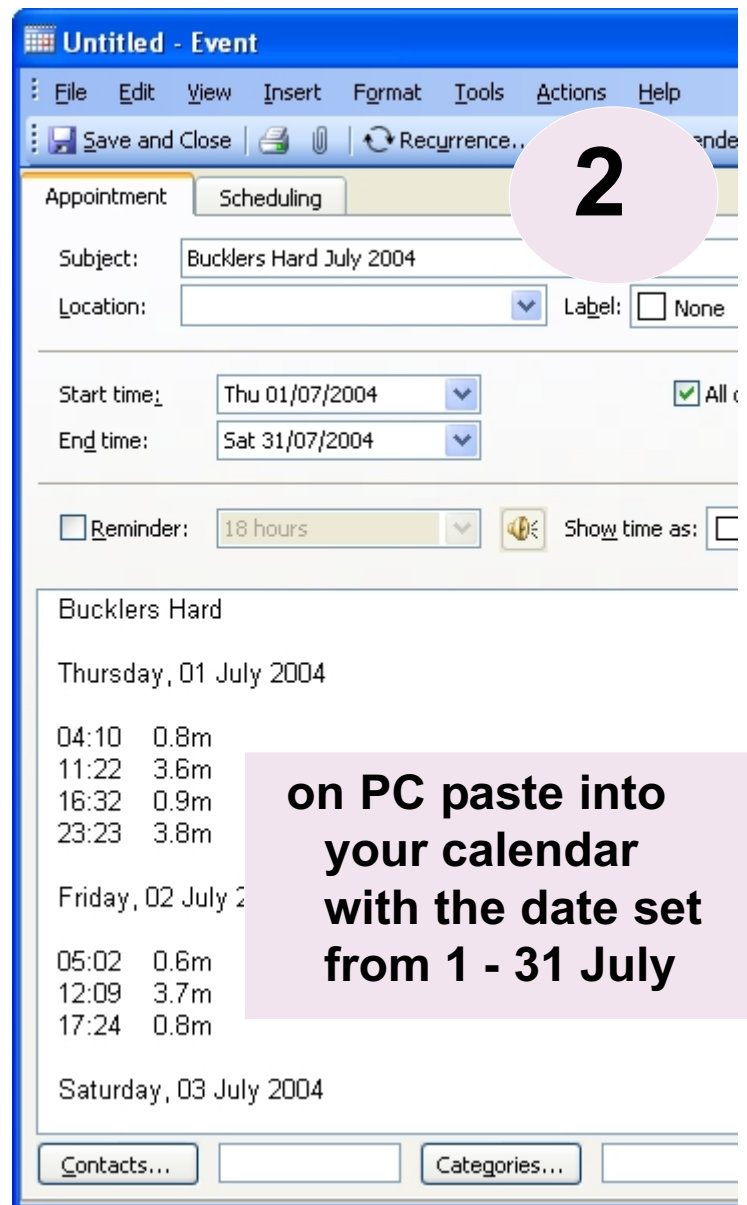
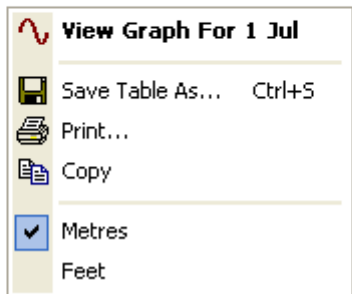


Bucklers Hard - July 2004

00:09 3.9m	04	00:58 3.9m	05	01:48 3.8m
05:52 0.4m		06:42 0.4m		07:32 0.4m
12:55 3.8m	Sun	13:44 3.8m	Mon	14:39 3.8m
18:15 0.7m		19:05 0.7m		19:57 0.8m
06:31 3.1m	11	00:43 1.6m	12	01:48 1.6m
12:00 1.4m		07:33 3.1m		08:40 3.0m
19:09 3.3m	Sun	13:01 1.6m	Mon	14:03 1.6m
		20:06 3.3m		21:03 3.3m

right click on the table
and copy

04:32 3.4m	06:32 3.2m
10:03 1.0m	11:58 1.3m
17:17 3.5m	19:08 3.4m
22:34 1.3m	
04:54 0.7m	
12:10 3.7m	
17:17 0.9m	



on PC paste into
your calendar
with the date set
from 1 - 31 July

3

Synchronise with your mobile device

Dice game - Gale force 8

Bundled with Tide Plotter comes a small game, which is great fun to play, requiring strategy, logic and a certain amount of luck. It is based on an Ancient Chinese dice game which has been re-vamped with a certain nautical bias.

Object of the game is to roll the dice three times whereby you get a choice of placing the value on a scoreboard. You only have one chance and you cannot change your mind to place your scores. When the scoreboard is full the player with the highest score wins. If you like a bit of a gamble then this is the game for you.

Belfield Gale Force 8

File Options Help

Player 1 4 41 Points Required for Bonus

HOLD HOLD HOLD

Aces	4		<input type="radio"/> Three of a Kind	
Twos	6		<input type="radio"/> Four of a Kind	
<input type="radio"/> Threes			Full House	25
Fours	12		Low Straight	
Fives			High Straight	
Sixes			Anything Goes	20
Bonus			Five of a Kind	

Player 1 Turn 6 of 13 Roll 3 of 3 Score: 67

Belfield Gale Force 8

File Options Help

Player 1 4 32 Points Required for Bonus

HOLD HOLD HOLD HOLD

Force 1	4		Strong Wind Warning	11
Force 2	6		Gale Warning	19
Force 3	9		Gybe-Ho	25
Force 4	12		<input type="radio"/> Low Pressure	
Force 5			High Pressure	
Force 6			Variable	20
Bonus			Gale Force 8	

The board can be changed to give a nautical flavour

Player 1 Turn 9 of 13 Roll 3 of 3 Score: 106

To install Gale Force 8, go to the GALE8 directory on the CD and double click on the setup.exe file

Entering your dice scores onto the scoreboard requires strategy. Fill the left half of the board with a sub total score of 63 or more and you score an additional 50.

Determining where to place your score is the difference between winning and losing.

