

E. Build race courses

This script was inspired by [bobgarrett's wish to be able to create race course routes from a list of waypoint names](#) rather than hunt for them on the chart.

The script allows the user to specify a regular expression pattern by which to select those waypoints which are race marks.

In the eastern Solent, the race mark names all start with the digit 5 followed by another character and a space. In this example there is also a waypoint *Line* placed on the start line and we are going to build a route for *Race 1*. When you click on *Build route*, you are presented with the Race mark selector.

In this dialogue you select the course marks in order adding them to the course. You can indicate whether they are to be left to port or starboard.

In this example, the finish is through the start line, so the final selection is *Line* and the button *to finish*.

The script then builds the route in OpenCPN and also displays the route with the list of waypoints indicating the bearing and distance to each and which side to pass. The caption includes the course length.

Route Race 1 (4.6nm)				
0		Line		
1	194°	0.2nm	5M Gleeds	to port
2	147°	0.4nm	5N Mary Rose	to starboard
3	250°	1.4nm	5F North Sturbridge	to starboard
4	340°	1.0nm	5E Darling Associates Architects	to starboard
5	096°	1.4nm	5M Gleeds	to port
6	014°	0.2nm	Line	to finish

Dismiss

Race route creator configuration

Enter a pattern for the waypoints to be included in the racemark list
This can be a regular expression.
The example matches 'Start', 'Finish' and all waypoints with names starting with RM
(Leave blank to include all waypoints)

Pattern

Route name

☒ Replace any existing route matching name

Exit Build route

Race mark selector

Marks

- ☒ Line
- ☐ 5A Liam
- ☐ 5B Mother Bank
- ☐ 5C Browndown
- ☐ 5D Kemps Quay
- ☐ 5E Darling Associates Architects
- ☐ 5F North Sturbridge
- ☐ 5G RNC RAYC
- ☐ 5H Portsmouth SC 1920-2020
- ☐ 5J KB Dry Stack
- ☐ 5K Suffolk Sails
- ☐ 5M Gleeds
- ☐ 5N Mary Rose
- ☐ 5P Vail Williams
- ☐ 5Q Outer Spit @
- ☐ 5O Fairhall West @
- ☐ 5I SBSC Central @

Add and next

to port + next next to starboard + next

Add last + build

to finish

build done

This script makes extensive use of the `onDialogue` function and is a useful example to work from.

