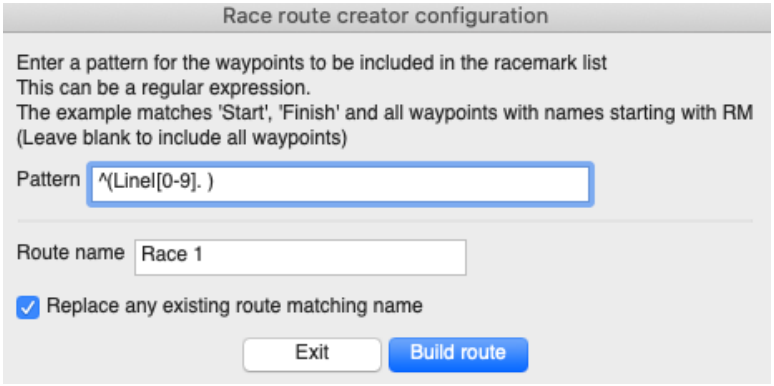
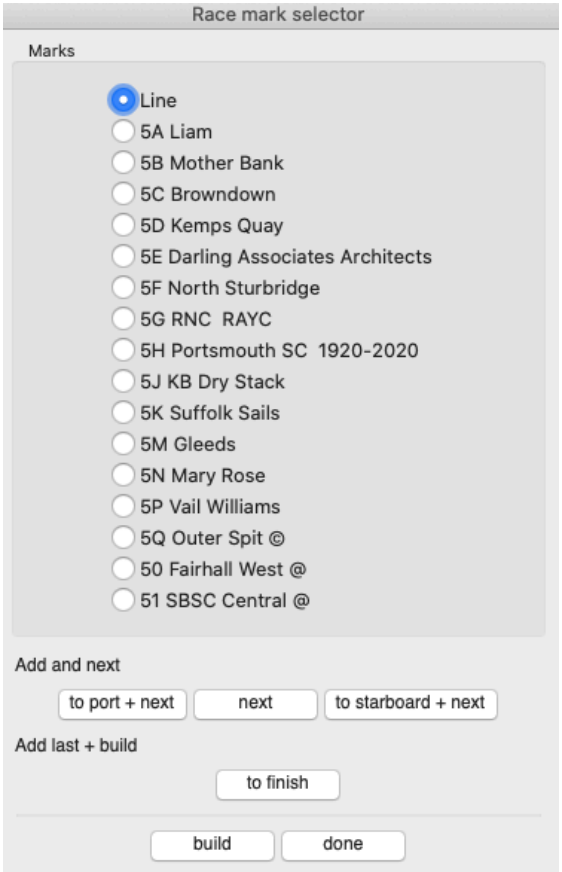
E. Build race courses

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.

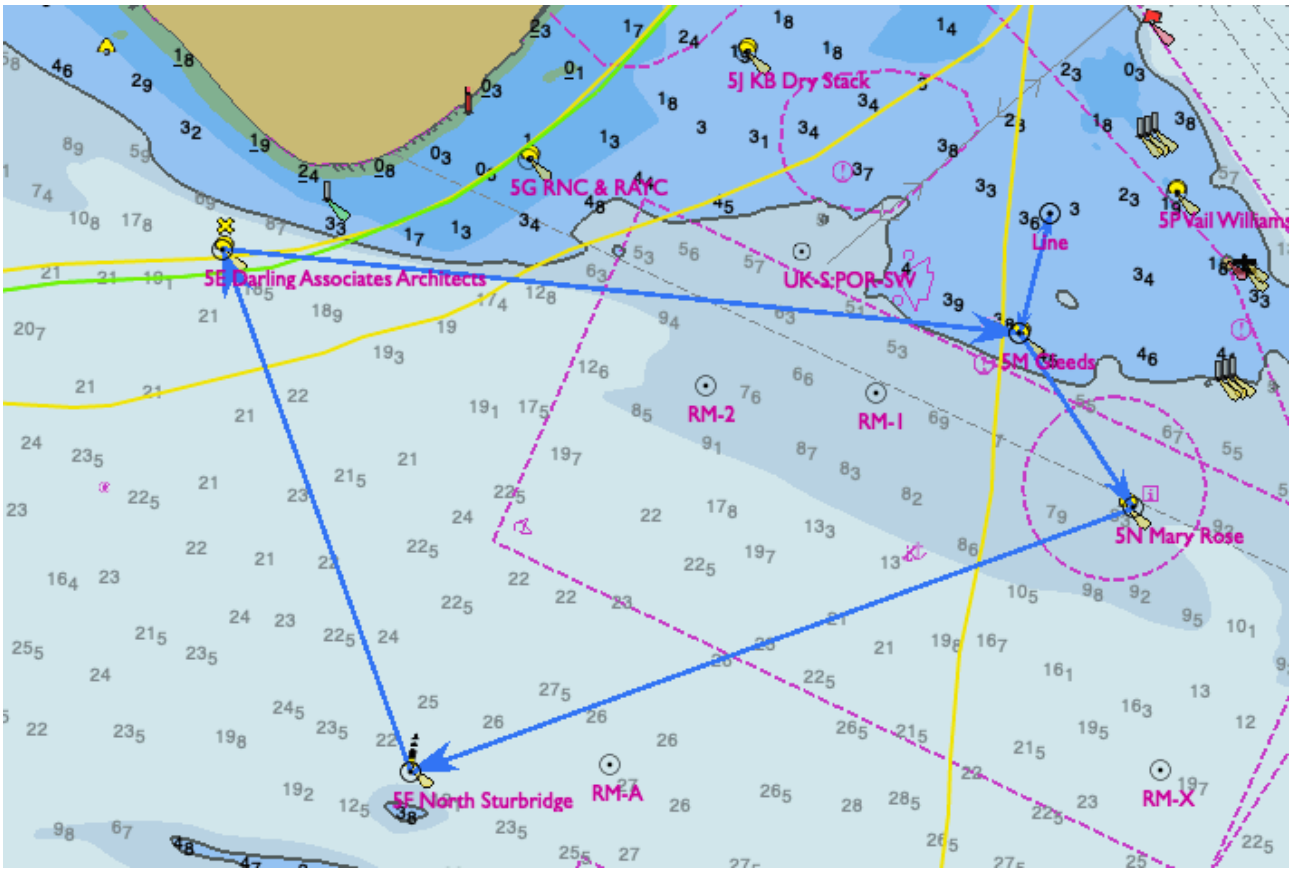


In this dialogue you select the course marks in order adding them to the course. You can indicate whether they are to be left to port or starboard.

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.

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


5J KB Dry Stack
5G RNC & RAYC
5P Vail Williams
Line
5B Darling Associates Architects
UK-S:POR-SW
5M Seeds
RM-2
RM-1
5N Mary Rose
5E North Sturbridge
RM-A
RM-X