

Ullman Sails Long Beach Race Week

Attachment B – Random Leg Courses



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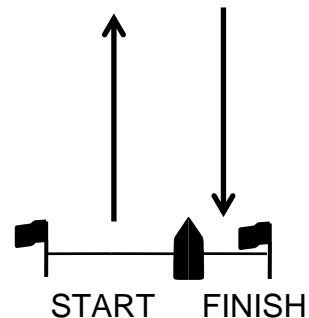
CHARLIE COURSE START & FINISH

Course #	Distance	Mark Rounding Order (all marks rounded to port)
A	10.6	Start – 13/19 – 10 – 37s – 34 – 39 – 9 – Finish
B	11.2	Start – 30 – 10s – 3 – 7 – 8s – 9 – Finish
C	12.5	Start – 13/19 – 3 – 34 – 7 – 27 – 36 – Finish
D	12.8	Start – 82 – 30 – 32 – 33 – 9 – Finish
E	12.9	Start – 50/58 – 13/19 – 9 – 36 – Finish
F	13.8	Start – 13/19 – 2 – 82 – Finish
G	14.2	Start – 37s – 27 – 13/19 – 1 – 35 – 32 – 33 – 34 – 39 – 9 – Finish
H	15.0	Start – 55 – Finish
I	16.0	Start – 82 – 7s – 2 – 33 – 27 – 9 – Finish
J	16.6	Start – 30 – 35 – 9 – 30 – 8s – 32 – 39 – 36 – Finish
K	17.2	Start - 50/58 – 2 – 35 – 39 – 9 – Finish
L	17.5	Start – 13/19 – 3 – 32 – 34 – 7 – 27 – 36 – 10s – 13/19 – Finish
M	18.0	Start – 13/19 – 4 – 13/19 – Finish
N	18.8	Start – 13/19 – 3 – 32 – 34 – 7 – 27 – 36 – 8s – 10s – 13/19 – Finish
O	23.6	Start – 50/58 - 20 - 13/19 – Finish
P	23.7	Start – 50/58 – 4 – 13/19 – Finish
Q	24.4	Start – 13/19 – 18 – 4 – 3 – 10 – 37s – Finish

All Marks Rounded to Port unless otherwise indicated.

Mark 13/19 and 50/58 are gate marks and a boat's track must comply with RRS 28.2(c) when passing these marks.

Start and Finish are as shown in the diagram opposite



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Schedule of Permanent Marks

MARK	Mark Description	Latitude	Longitude
Start Finish	Charlie Course Race Committee (Approx)	33°44'32.67"N	118° 9'7.26"W
1	Anaheim Bay Channel Buoy - R "2" QR Whistle	33°42'55.26"N	118° 6'33.41"W
3	Platform Esther	33°43'7.10"N	118° 6'51.20"W
4	Platform Eva	33°39'42.25"N	118° 3'43.37"W
5	Platform Emmy	33°39'43.20"N	118° 2'36.60"W
7	Island White	33°45'9.38"N	118° 9'35.77"W
8	Island Chaffee	33°44'23.09"N	118° 8'20.73"W
9	Island Freeman	33°44'28.40"N	118° 9'44.60"W
10	East End of Long Beach Breakwater	33°43'22.56"N	118° 8'8.56"W
13	West End of Long Beach Breakwater "Queen's Gate"	33°43'22.90"N	118°11'8.90"W
18	Platform Ellen & Elly	33°34'57.00"N	118° 7'42.00"W
19	East End of Middle Breakwater	33°43'22.90"N	118°11'8.90"W
20	Platform Edith	33°35'45.00"N	118° 8'27.00"W
27	R "2" Buoy near Pier J	33°44'26.56"N	118°10'38.00"W
50	West End of the Middle Breakwater - Angel's Gate	33°43'38.34"N	118°14'42.39"W
55	Point Fermin Whistle Buoy - R "6" FI R 4sec Whistle	33°41'55.70"N	118°17'30.00"W
58	East End of the San Pedro Breakwater Angel's Gate	33°42'29.37"N	118°15'3.69"W

1. When passing or rounding oil platforms boats must stay outside the Exclusion Zone.

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Schedule of Semi-Permanent Marks

MARK	Mark Description	Latitude	Longitude
2	Spar Buoy At former location of Belmont Platform.	33° 43.260'N	118° 07.590'W
30	Spar Buoy 100 yards north of West Measured Mile Marker	33° 43.490'N	118° 09.900'W
31	Spar Buoy 100 yards north of East Measured Mile Marker	33° 43.490'N	118° 08.690'W
32	Spar Buoy 1/2 mile NW from the West End of the Alamitos Bay Jetty.	33° 44.510'N	118° 07.330'W
33	Spar Buoy 1 mile NW of West End of Alamitos Bay Jetty.	33° 44.960'N	118° 08.100'W
34	Spar Buoy 500 yards east from the end of Belmont Pier.	33° 45.260'N	118° 08.750'W
35	Spar Buoy 600 yards west from the end of Seal Beach Municipal Pier	33° 44.103'N	118° 06.897'W
36	Spar Buoy 1/2 mile west of the West Measured Mile Marker, and 100 yards north of the Breakwater	33° 43.470'N	118° 10.450'W
37	Spar Buoy 100 yards north of the « mile Measured Mile Marker, midway between Mark 31 and Mark 30.	33° 43.480'N	118° 09.310'W
38	Spar Buoy 400 yards SE from the south Marker Horn on Island Chaffee.	33° 44.138'N	118° 08.145'W
39	Spar Buoy 1/2 mile ENE of Island Grissom	33° 45.560'N	118° 10.311'W
40	Spar Buoy, 3/4 mile SW of Seal Beach Pier Lat/Lon	33° 43.510'N	118° 06.920'W
82	Spar Buoy 100 yards north of the Middle Breakwater, about half way between bend in Breakwater and Angel's Gate.	33° 43.059'N	118° 13.559'W

2. Mark locations vary slightly due to tide changes which affects swing.
3. Marks may not be on station for various reasons.
4. The Spar Buoys are Yellow.
5. Locations and distances, when given are approximate
6. Chart references: No's, 18746 & 18749