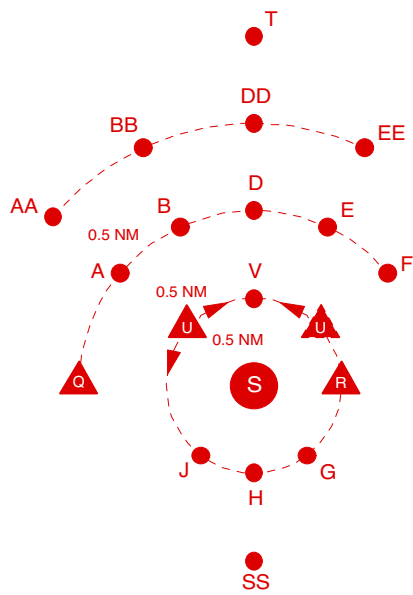
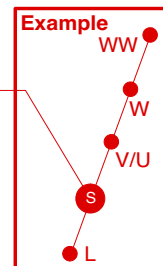


Marina del Rey Course Chart 17

Date: 1/28/16
File name: Course Chart 17.0.vwx



Course rotates around 'S' Mark depending on wind direction.



Course Instructions

Start and finish in the vicinity of **S** mark.

Leave all rounding marks to **PORT**.

WW, **W**, **V** and **U** are weather marks.

L and **S** are leeward marks.

Courses will be signaled by code flags or number placards:

Number pennant(s) or placards for the course number;

A letter flag or placard for the **DIRECTION** to the first mark (see compass bearing table on other side).

Mark Identification Table

If letter flag is:	D	A	B	E	F	Q	G	H	J	R
then WW is	DD	AA	BB	EE	-	-	-	-	-	-
W is	D	A	B	E	F	Q	G	H	J	R
U is	V	midway between S and W if set				-	-	-	-	-
L is	H	G	G	J	J	R	B	D	E	Q

Upwind Finishes

No	Course	Distance
1	Start-U-L-Finish	2NM
2	Start-U-S-U-L-Finish	3NM
3	Start-U-S-U-S-U-L-Finish	4NM
4	Start-W-L-Finish	3NM
5	Start-W-S-U-L-Finish	4NM
6	Start-W-S-W-L-Finish	5NM
7	Start-W-S-U-S-U-L-Finish	5NM
8	Start-W-L-W-L-Finish	6NM
9	Start-W-S-W-S-U-L-Finish	6NM
10	Start-W-S-W-S-W-L-Finish	7NM
11	Start-W-S-W-L-W-L-Finish	8NM
12	Start-WW-S-W-L-Finish	6NM
13	Start-WW-S-WW-L-Finish	7NM
14	Start-WW-L-WW-L-Finish	8NM
15	Start-WW-S-W-S-W-L-Finish	8NM

Downwind Finishes

No	Course	Distance
20	Start-U-Finish	1NM
21	Start-U-S-U-Finish	2NM
22	Start-U-S-U-S-U-Finish	3NM
23	Start-W-Finish	2NM
24	Start-W-S-U-Finish	3NM
25	Start-W-S-W-Finish	4NM
26	Start-W-S-U-S-U-Finish	4NM
27	Start-W-L-W-Finish	5NM
28	Start-W-S-U-S-W-Finish	5NM
29	Start-W-S-W-S-W-Finish	6NM
30	Start-W-S-W-L-W-Finish	7NM
31	Start-W-L-W-L-W-Finish	8NM
32	Start-WW-S-W-Finish	5NM
33	Start-WW-S-WW-Finish	6NM
34	Start-WW-L-W-Finish	6NM
35	Start-WW-S-W-S-W-Finish	7NM
36	Start-WW-S-WW-S-W-Finish	8NM

Special Courses

40+ See Sailing Instructions

Santa Monica Pier



Magnetic North

Venice Pier



Marina del Rey

SS

El Segundo Bell Buoy
R"2ES"

Marina del Rey Course Chart 17

Date: 1/28/16
File name: Course Chart 17.0.vwx

TO ————— Approximate magnetic course between marks —————>

	A	AA	B	BB	D	DD	E	EE	F	G	H	J	Q	R	S	T	V	SS	2ES	SM1
S	185	185	210	210	235	235	260	260	285	018	055	092	145	325	-	235	235	055	138	331
A	-	185	288	245	300	277	313	298	325	009	021	031	075	352	005	264	336	030	119	339
AA	005	-	330	288	323	300	327	313	335	008	017	023	046	355	005	283	347	025	107	342
B	108	150	-	210	312	270	325	302	337	026	038	050	088	009	030	256	009	042	117	344
BB	065	108	030	-	355	312	348	325	352	027	036	044	070	015	030	280	019	040	107	349
D	120	143	132	175	-	235	338	295	350	043	055	067	100	028	055	235	055	055	119	348
DD	097	120	090	132	055	-	020	338	013	046	055	064	089	037	055	235	055	055	112	355
E	133	147	145	168	158	200	-	260	002	060	072	084	113	050	080	214	101	068	124	349
EE	118	133	122	145	115	158	080	-	045	066	074	083	105	061	080	190	092	070	118	359
F	145	155	157	172	170	193	182	225	-	079	089	101	125	077	105	206	135	080	129	347
G	189	188	206	207	223	226	240	246	259	-	127	145	162	262	198	228	217	082	146	323
H	201	197	218	216	235	235	252	254	269	307	-	163	172	280	235	235	235	055	148	321
J	211	203	230	224	247	244	264	263	281	325	343	-	175	298	272	242	254	028	146	324
Q	255	226	268	250	280	269	293	285	305	342	352	355	-	325	325	262	299	010	133	329
R	172	175	189	195	208	217	230	241	257	082	100	118	145	-	145	221	190	082	139	332
T	084	103	076	100	055	055	034	010	026	048	055	062	082	041	055	-	055	055	105	002
V	156	167	189	199	235	235	281	272	315	037	055	074	119	010	055	235	-	055	128	340
SS	210	205	222	220	235	235	248	250	260	262	235	208	190	262	235	235	235	-	158	312
2ES	299	287	297	287	299	292	304	298	309	326	328	326	313	319	318	285	308	338	-	324
SM1	159	162	164	169	168	175	169	179	167	143	141	144	149	152	151	182	160	132	144	-

Mark Locations

Mark	Latitude	Longitude
A	33° 56.243' N	118° 29.606' W
AA	33° 55.770' N	118° 29.799' W
B	33° 56.467' N	118° 30.050' W
BB	33° 56.107' N	118° 30.466' W
D	33° 56.827' N	118° 30.337' W
DD	33° 56.647' N	118° 30.899' W
E	33° 57.254' N	118° 30.417' W
EE	33° 57.288' N	118° 31.017' W
F	33° 57.669' N	118° 30.270' W
G	33° 57.611' N	118° 28.898' W
H	33° 57.367' N	118° 28.655' W
J	33° 57.051' N	118° 28.637' W
Q	33° 56.257' N	118° 28.779' W
R	33° 57.652' N	118° 29.434' W
S	33° 57.187' N	118° 29.216' W
T	33° 56.464' N	118° 31.459' W
V	33° 57.007' N	118° 29.777' W
SS	33° 57.547' N	118° 28.093' W
2ES	33° 54.698' N	118° 27.563' W
SM1	34° 00.176' N	118° 30.226' W

Please note: These are the designated locations for the marks; every effort is made to keep them as close as possible to the above coordinates, but there is no guarantee as to their actual positions. Marks listed above with the exception of 2ES are owned and maintained by the Yacht Clubs in MdR and may only be used with prior approval from the Buoy Coordinator.

Description of Marks

A, AA, B, BB, V, D, DD, T, E, EE, F, G, H, J and **SS** marks are yellow spars.

Q, R, U, and **SM1** are inflatable or flag marks that may be set by the race committee.

2ES is the El Segundo bell buoy.

Missing marks may be replaced by inflatable or flag marks.

Handicap Distances

The handicap distance from **S** to:

U, V, R, G, H, or **J** = 0.5 NM

A, B, D, E, F, Q or **SS** = 1.0 NM

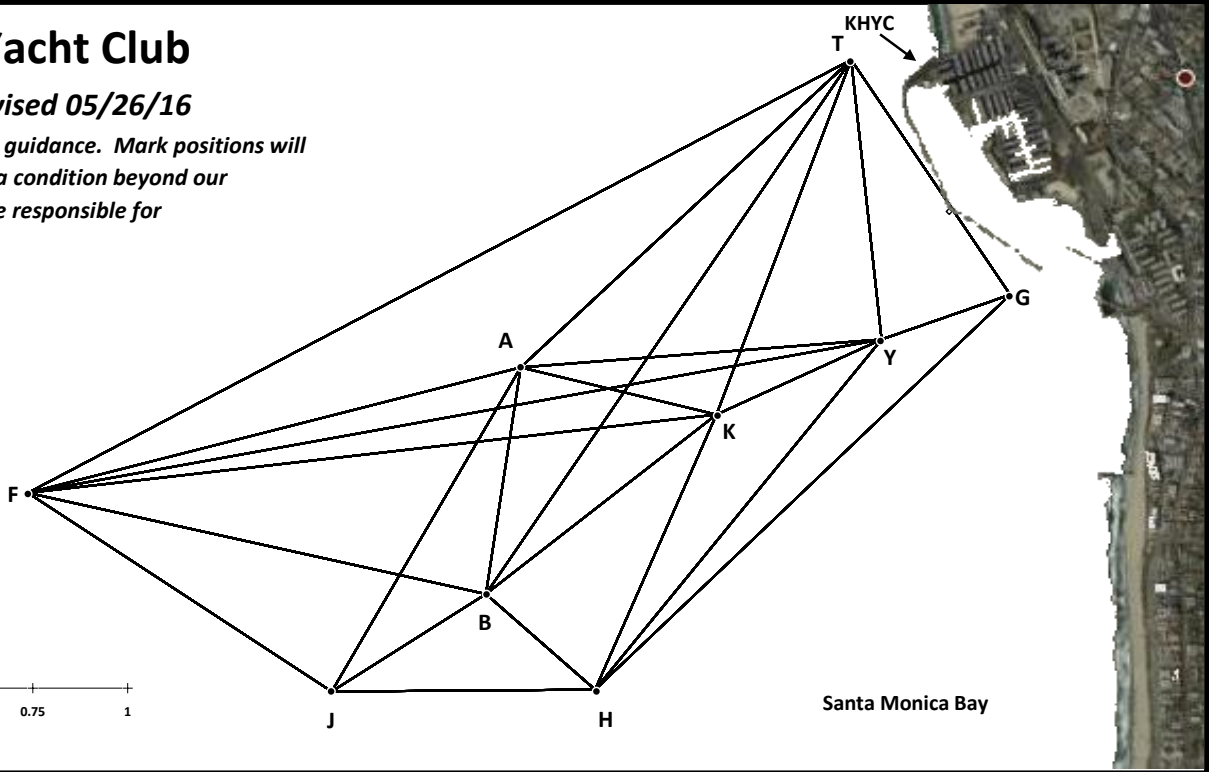
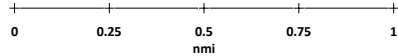
AA, BB, DD or **EE** = 1.5 NM

T = 2.0 NM

King Harbor Yacht Club

Mark Guide - Revised 05/26/16

This information is for your guidance. Mark positions will change from time to time, a condition beyond our immediate control. You are responsible for your own navigation.



Approximate Mark Locations

Racing Mark	N Latitude			W Longitude			Buoy Type	Racing Mark	N Latitude			W Longitude			Buoy Type
	Deg	Min	Sec	Deg	Min	Sec			Deg	Min	Sec	Deg	Min	Sec	
T-Mark	33	51	00.8	118	24	17.3	Yellow Spar	"2ES"	33	54	41.8	118	27	33.5	Bell Buoy
A-Mark	33	50	11.3	118	25	20.3	Yellow Spar	mdrT-Mark	33	56	27.8	118	31	27.5	Yellow Spar
F-Mark	33	49	51.1	118	26	54.2	Yellow Spar	mdrDD-Mark	33	56	38.8	118	30	53.9	Yellow Spar
B-Mark	33	49	34.8	118	25	26.9	Yellow Spar	mdrSS-Mark	33	57	32.8	118	28	05.6	Yellow Spar
G-Mark	33	50	23.0	118	23	47.0	Bell Buoy	Malibu BW	34	02	00.6	118	40	21.1	Mooring
Y-Mark	33	50	15.8	118	24	11.5	Yellow Spar	"10PV" red	33	46	24.0	118	26	41.8	Bell Buoy
J-Mark	33	49	19.1	118	25	56.3	Yellow Spar	Pt. Vicente	33	44	16.8	118	24	52.2	Outer Rock
K-Mark	33	50	03.7	118	24	43.0	Yellow Spar	Ship Rock	33	27	47.0	118	29	28.0	Catalina Isth.
H-Mark	33	49	19.4	118	25	06.1	Yellow Spar	"6PF"	33	41	55.8	118	17	30.1	Bell Buoy
W-Mark	33	50	29.4	118	23	40.9	RB-MC1	Angels Gate	33	42	30.8	118	15	05.9	LA Light
M-Mark	33	51	35.0	118	24	58.0	Inflatable	CBYC 82	33	43	3.6	118	13	33.6	Yellow Spar

Spar Marks in grey are not deployed.

Approximate Magnetic Heading/Distance in nmi

From > To <	A	B	F	G	H	J	K	T	Y
A		356/0.6	063/1.3	249/1.3	334/0.9	017/1.0	271/0.5	214/1.2	253/1.0
B	176/0.6		090/1.2	227/1.6	299/0.4	045/0.5	219/0.8	201/1.7	224/1.2
F	243/1.3	270/1.2		246/2.6	277/1.6	291/1.0	251/1.8	229/2.5	247/2.3
G	069/1.3	047/1.6	066/2.6		033/1.5	047/2.1	055/0.8	134/0.8	058/0.4
H	154/0.9	119/0.4	097/1.6	213/1.5		077/0.7	191/0.8	189/1.8	206/1.2
J	197/1.0	225/0.5	111/1.0	227/2.1	257/0.7		221/1.3	206/2.2	224/1.7
K	091/0.5	039/0.8	071/1.8	235/0.8	011/0.8	041/1.3		188/1.0	232/0.5
T	034/1.2	021/1.7	049/2.5	314/0.8	009/1.8	026/2.2	008/1.0		341/0.8
Y	073/1.0	044/1.2	067/2.3	238/0.4	026/1.2	044/1.7	052/0.5	161/0.8	