

### Race Marks 2011 - Relative Bearings - Magnetic (approx)

	A	B	C	D	E	G	H	I	J	K	M	N	O	P	Q	S	T	U	V	W	X
A		186	216	196	146	168	220	207	188	184	295	002	192	250	185	203	071	248	215	229	200
B	006		319	352	019	024	350	336	357	010	347	005	002	331	010	331	022	347	340	321	328
C	036	139		084	058	081	032	077	126	092	004	025	058	346	121	111	047	015	038	327	127
D	016	172	264		043	078	347	272	170	110	344	011	023	315	161	233	036	342	312	287	212
E	326	199	238	223		190	264	233	204	207	307	346	238	273	202	225	028	284	246	252	220
G	348	204	261	258	010		305	236	214	236	325	354	306	297	211	249	021	314	281	275	239
H	040	170	212	167	084	125		191	168	151	342	021	125	285	164	187	055	334	205	238	184
I	027	156	257	092	053	083	011		148	101	353	018	048	326	140	177	043	357	350	293	172
J	008	177	306	350	024	034	348	328		018	345	006	004	326	062	317	026	345	334	312	305
K	004	190	272	290	027	056	331	281	198		337	003	350	310	190	259	028	332	304	288	242
M	115	167	184	164	127	145	162	173	165	157		066	152	204	163	173	094	166	173	193	172
N	182	185	205	191	166	174	201	198	186	183	246		187	225	184	196	125	214	202	214	194
O	012	182	238	203	058	126	305	228	184	170	332	007		292	180	215	040	319	256	260	207
P	070	151	166	135	093	117	105	146	146	130	024	045	112		143	151	071	073	136	178	153
Q	005	190	301	341	022	031	344	320	242	010	343	004	360	323		308	024	342	329	308	295
S	023	151	291	053	045	069	007	357	137	079	353	016	035	331	128		039	357	353	309	166
T	251	202	227	216	208	201	235	223	206	208	274	305	220	251	204	219		249	229	236	215
U	068	167	195	162	104	134	154	177	165	152	346	034	139	253	162	177	069		180	213	176
V	035	160	218	132	066	101	025	170	154	124	353	022	076	316	149	173	049	000		264	171
W	049	141	147	107	072	095	058	113	132	108	013	034	080	358	128	129	056	033	084		135
X	020	148	307	032.	040	059	004	352	125	062	352	014	027	333	115	346	035	356	351	315	

MAY	HW	JUNE	HW	JULY	HW	AUG	HW	SEP	HW
1	11.11	1	11.59	1	12.22	1	13.31	1	14.35
2	11.47	2	12.39	2	13.06	2	14.14	2	15.19
3	12.23	3	13.20	3	13.49	3	14.58	3	16.07
4	12.59	4	14.03	4	14.33	4	15.44	4	17.05
5	13.36	5	14.47	5	15.19	5	16.34	5	18.14
6	14.14	6	15.34	6	16.07	6	17.13	6	19.36
7	14.55	7	16.26	7	17.07	7	18.37	7	20.50
8	15.43	8	17.25	8	17.58	8	19.52		
9	16.39	9	18.29	9	19.05	9	21.06		
10	17.45	10	19.35	10	20.14	10	22.08		
11	18.55	11	07.54	11	21.19	11	22.58		
12	20.06	12	08.59	12	22.18	12	11.29		
13	21.07	13	22.34	13	23.10	13	12.10		
14	09.24	14	23.23	14	23.58	14	12.46		
15	10.22	15	11.50	15	12.26	15	13.21		
16	23.42	16	12.40	16	13.08	16	13.54		
17	12.06	17	13.26	17	13.48	17	14.27		
18	12.54	18	14.10	18	14.25	18	15.00		
19	13.40	19	14.52	19	15.01	19	15.34		
20	14.26	20	15.35	20	15.39	20	16.12		
21	15.14	21	16.20	21	16.19	21	16.59		
22	16.03	22	17.07	22	17.02	22	17.58		
23	16.57	23	17.59	23	17.53	23	19.12		
24	17.55	24	18.56	24	18.55	24	20.27		
25	18.57	25	07.07	25	20.01	25	21.29		
26	19.58	26	08.07	26	21.03	26	22.23		
27	20.53	27	21.42	27	21.59	27	10.56		
28	09.00	28	22.31	28	22.48	28	11.42		
29	09.49	29	23.14	29	23.35	29	12.26		
30	23.03	30	23.57	30	12.04	30	13.09		
31	23.40			31	12.47	31	13.51		

### MARK DESCRIPTIONS / POSITIONS (Approx)

ID	Name	Shape	Colour	Latitude (N)		Longitude (W)	
				Deg	Min	Deg	Min
A	Apex	Conical	Black	53	26.76	06	03.26
B	Balscadden	Conical	Orange	53	23.30	06	03.26
C	Cush	Conical	Black	53	24.50	06	05.44
D	Dunbo	Conical	Yellow	53	24.73	06	03.85
E	East	Conical	Black	53	26.00	06	02.20
F	Finish	Cylindrical	Orange	Between Is. Mark and Howth Sound			
G	Garbh	Conical	Black	53	25.00	06	02.32
H	Hub	Conical	Black	53	25.71	06	04.43
I	Island	Conical	Black	53	24.70	06	04.36
J	Thulla	Conical	Black	53	23.80	06	03.40
K	Stack	Conical	Black	53	24.60	06	03.11
M	Malahide	Conical	Black	53	27.23	06	05.59
N	North	Conical	Black	53	27.99	06	03.40
O	Osprey	Conical	Orange	53	25.41	06	03.52
P	Portmarnock	Conical	Black	53	25.89	06	06.30
Q	Rowan Rocks	IALA	Black	53	23.88	06	03.22
R	South Rowan	IALA	Green	53	23.78	06	03.88
S	Spit	Conical	Black	53	24.35	06	04.48
T	Talbot	Conical	Black	53	27.31	06	01.30
U	Ulysses	Conical	Orange	53	26.22	06	04.97
V	Viceroy	Conical	Orange	53	25.12	06	04.78
W	West	Conical	Black	53	24.96	06	06.07
X	Xebec	Barrel	Black	53	24.12	06	04.33
Z	Zephyr	Inflatable	Black	Upwind of Start Line			

Row 40 Olympic Courses				Diagram	
Mk/D	Name	Shape	Colour	Finish Mark is positioned upwind of last mark.	
D	Distance	Pillar	Orange		
Z	Windward	Inflatable	Black	Mark L is positioned downwind of D	
G	Gybe	Inflatable	Yellow		
L	Leeward	Round	Orange		
F	Finish	Round	Orange		

Row 50 Windward-Leeward Courses				Diagram	
Mk/D	Name	Shape	Colour	Finish Mark is positioned upwind of last mark.	
D	Distance	Pillar	Orange		
Z	Windward	Inflatable	Black	Mark L is positioned downwind of D	
Wg	Wing	Inflatable	Yellow		
L	Leeward	Round	Orange		
F	Finish	Round	Orange		

**NOTE:** Courses may be shortened at any mark on the course or at the committee boat.