

Lake Champlain YC Race Marks & Courses (PRO Version)

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Race Marks

Mark	Mark Description	Latitude				Longitude			
		Degree	Minute	Second	Decimal	Degree	Minute	Second	Decimal
A	A Mark Orange Cylinder 0.75 NM SW of Appletree RBN	44	28	53.44	44.4815	73	16	40.21	-73.2778
B	Breakwater Burlington Bay 0.25 NM west of Breakwater	44	28	50.52	44.4807	73	14	7.2	-73.2353
C	C Mark off LCYC Shelburne Bay – South	44	24	38.4	44.4107	73	13	53.33	-73.2315

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Mark	Mark Description	Latitude				Longitude			
		Degree	Minute	Second	Decimal	Degree	Minute	Second	Decimal
DI	Diamond Isle	44	14	10.26	44.2362	73	20	10.31	-73.3362
E	E Mark Shelburne Bay Drop Mark Shelburne Bay-East	44	25	36.01	44.4267	73	13	26.96	-73.2242
F	RB Nun @ Four Brother Four Brother RG "FB"	44	26	21.69	44.4394	73	19	42.27	-73.3284
FR	Ferris Rock BR Ferris Rock BR "DFR"	44	31	23.92	44.5233	73	21	33.47	-73.3593
G	Saxton Reef Green Can Saxton Reef	44	24	4.88	44.4014	73	17	4.16	-73.2845
GIL	Garden Isle Red Nun Garden Isle	44	36	15.03	44.6042	73	24	15.58	-73.4043
Jl	Juniper Island SEE NOTE BELOW	44	26	48.27	44.4467	73	16	37.54	-73.2771
JL	Juniper Ledge Juniper Ledge Green Can	44	26	13.68	44.4371	73	16	24.79	-73.2736
LR	La Roche Reef	44	47	56.14	44.7989	73	21	6.59	-73.3518
O	Oakledge Drop Mark – Oakledge	44	27	16.14	44.4545	73	14	16.42	-73.2379
P	Proctor Orange Cylinder Proctor Shoal 0.25 NM West of shoal	44	26	58.19	44.4495	73	14	58.84	-73.2497
Q	Quaker Smith Reef Green Can Quaker Smith Reef	44	23	4.99	44.3847	73	17	45.14	-73.2959
RD	S of Rock Dunder Drop Mark - 0.25 Nm S of Rock Dunder	44	26	38.27	44.4440	73	15	54.06	-73.2650
S	S Mark Shelburne Bay Drop Mark Shelburne Bay-North	44	26	1.19	44.4337	73	14	24.54	-73.2402
SI	Sloop Island	44	18	27.8	44.3077	73	18	28.11	-73.3078
X	Schyuler Reef Red Nun Schyuler Reef	44	29	22.71	44.4896	73	20	51.72	-73.3477

Note: Juniper Island includes Reef Buoy 3 SE of the island and Rock Buoy 5 NE of the island.

Note: Lat / Long for Drop Marks and Islands are approximate

Important information for Racers

- Course numbers will be displayed on the RC boat and may be announced on VHF 72.
- Separate courses may be set for JaM and Spinnaker divisions.
- Spinnaker course will be denoted by 'S,' JaM course by 'J'.
- () Denotes on which side the mark is to be left – (p) for port, (s) for starboard.
- First letter = starting mark / last letter = finishing mark
- Distance column is the estimated total distance sailed between marks
- Shelburne Point RN2 shall always be passed to the north.
- LCYC Race Marks P, C and A are orange cylinders
- Drop Marks will be a MarkSetBot or an orange or red inflatable mark.
- The start for courses starting at "RD" may be located south of Rock Dunder anywhere between Shelburne Point and Juniper Island
- For courses starting at 'RD' the RC may substitute starting at 'P'.
- For courses designated as starting or finishing at a permanent mark, either that mark or a drop mark in the vicinity of that mark may be used for the Start and/or Finish mark. In all cases, where elsewhere in the course description that mark is designated, the permanent mark shall be the mark of the course, unless that mark is missing.
- Per RRS 90.2(c) - If no listed course is appropriate the RC may create and signal an alternate course on the water after raising Code flag L with one sound.

Important information for PRO's

- Use courses starting at P or RD unless conditions dictate otherwise
- Courses starting at S and C marks are ONLY intended for use in high wind conditions where starting and/or finishing at RD or P is too challenging
- Courses starting at RD may start at P if you do not have a bot or drop mark...announce this on VHF 72
- The RD starting area extends from Shelburne Pt to the SE corner of Juniper Island
 - Locate the start line east-west in this area to achieve the best upwind course
- Most courses include the P Mark as a potential shorten course point
- If wind conditions in the bay are favorable and time allows, finish at C. If not, shorten at P.
- If you use a course that includes Schuyler Reef remind racers to check their charts carefully

Course Pairings

- The table below contains recommended Spin/JaM course pairs that should be used when possible
- The goal is to equalize the average race duration between Spin and JaM fleets

Course Pairings					
-	<u>Spin / Course #</u>	<u>JaM / Course #</u>	<u>Spin</u>	<u>JaM</u>	-
Start	North Wind		Total Nm	Total Nm	Delta
P	9	7	16.5	12.4	25%
P	10	9	18.6	16.5	12%
C	4	1	19.9	15.8	21%
C	5	3	21.0	18.4	12%
C	6	4	22.0	19.9	10%

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South Wind

RD	15	13	15.7	13.6	14%
RD	21	17	18.8	16.7	11%
RD	20	16	18.8	16.6	11%
RD	22	18	19.8	17.7	11%
RD	24	23	22.2	19.9	10%
RD	19	14	17.8	15.2	15%
RD	12	11	13.1	10.5	20%

Courses - PRO version

Wind Direction	COURSE No.	Leg #	Mark Start	Mark End	Rounding Direction for END MARK	START MARK	END MARK	RLD (Nm)	Total Dist Sailed (NM)	Time @ 5 knts (hrs)
N-NW	1	1	C	A	Port	C Mark off LCYC	Appletree	4.69	6.57	1.31
		2	A	F	Port	Appletree	RB Nun @ Four Brother	3.33	3.33	0.67
		3	F	P	Starboard	RB Nun @ Four Brother	Proctor	3.43	3.43	0.69
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	13.91	15.78	3.16
	2	1	C	A	Port	C Mark off LCYC	Appletree	4.69	6.57	1.31
		2	A	P	Port	Appletree	Proctor	2.27	2.27	0.45
		3	P	A	Port	Proctor	Appletree	2.27	3.18	0.64
		4	A	P	Port	Appletree	Proctor	2.27	2.27	0.45
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	13.95	16.74	3.35
	3	1	C	A	Port	C Mark off LCYC	Appletree	4.69	6.57	1.31
		2	A	G	Port	Appletree	Saxton Reef	4.82	4.82	0.96
		3	G	P	Port	Saxton Reef	Proctor	3.25	4.55	0.91
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	15.22	18.39	3.68
	4	1	C	A	Port	C Mark off LCYC	Appletree	4.69	6.57	1.31
		2	A	F	Port	Appletree	RB Nun @ Four Brother	3.33	3.33	0.67
		3	F	G	Port	RB Nun @ Four Brother	Saxton Reef	2.96	2.96	0.59
		4	G	P	Starboard	Saxton Reef	Proctor	3.25	4.55	0.91
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49

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Wind Direction	COURSE No.	Leg #	Mark Start	Mark End	Rounding Direction for END MARK	START MARK	END MARK	RLD (Nm)	Total Dist Sailed (NM)	Time @ 5 knts (hrs)
	COURSE TOTAL					-	-	16.69	19.86	3.97
	5	1	C	A	Port	C Mark off LCYC	Appletree Quaker Smith	4.69	6.57	1.31
		2	A	Q	Port	Appletree	Reef	5.86	5.86	1.17
		3	Q	P	Starboard	Quaker Smith Reef	Proctor	4.36	6.11	1.22
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	17.37	20.99	4.20
	6	1	C	A	Port	C Mark off LCYC	Appletree RB Nun @ Four	4.69	6.57	1.31
		2	A	F	Port	Appletree	Brother Quaker Smith	3.33	3.33	0.67
		3	F	Q	Port	RB Nun @ Four Brother	Reef	3.56	3.56	0.71
		4	Q	P	Starboard	Quaker Smith Reef	Proctor	4.36	6.11	1.22
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	18.40	22.02	4.40
N-NW	7	1	P	A	Port	Proctor	Appletree RB Nun @ Four	2.27	3.18	0.64
		2	A	F	Port	Appletree	Brother	3.33	3.33	0.67
		3	F	P	Starboard	RB Nun @ Four Brother	Proctor	3.43	3.43	0.69
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	11.48	12.39	2.48
	8	1	P	X	Port	Proctor	Schyuler Reef RB Nun @ Four	4.84	6.77	1.35
		2	X	F	Port	Schyuler Reef	Brother	3.13	3.13	0.63
		3	F	P	Starboard	RB Nun @ Four Brother	Proctor	3.43	3.43	0.69
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	13.85	15.79	3.16
	9	1	P	A	Port	Proctor	Appletree RB Nun @ Four	2.27	3.18	0.64
		2	A	F	Port	Appletree	Brother	3.33	3.33	0.67
		3	F	G	Port	RB Nun @ Four Brother	Saxton Reef	2.96	2.96	0.59
		4	G	P	Starboard	Saxton Reef	Proctor	3.25	4.55	0.91
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	14.26	16.47	3.29
	10	1	P	A	Port	Proctor	Appletree RB Nun @ Four	2.27	3.18	0.64
		2	A	F	Port	Appletree	Brother Quaker Smith	3.33	3.33	0.67
		3	F	Q	Port	RB Nun @ Four Brother	Reef	3.56	3.56	0.71
		4	Q	P	Starboard	Quaker Smith Reef	Proctor	4.36	6.11	1.22
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	2.46	0.49
	COURSE TOTAL					-	-	15.98	18.63	3.73

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Wind Direction	COURSE No.	Leg #	Mark Start	Mark End	Rounding Direction for END MARK	START MARK	END MARK	RLD (Nm)	Total Dist Sailed (NM)	Time @ 5 knts (hrs)
S-SW	11	1	RD	G	Port	S of Rock Dunder	Saxton Reef	2.69	3.76	0.75
		2	G	P	Starboard	Saxton Reef	Proctor	3.25	3.25	0.65
		3	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	8.40	10.46	2.09
	12	1	RD	Q	Port	S of Rock Dunder	Quaker Smith Reef	3.79	5.31	1.06
		2	Q	P	Starboard	Quaker Smith Reef	Proctor	4.36	4.36	0.87
		3	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	10.61	13.11	2.62
	13	1	RD	G	Starboard	S of Rock Dunder	Saxton Reef	2.69	3.76	0.75
		2	G	F	Starboard	Saxton Reef	RB Nun @ Four Brother	2.96	2.96	0.59
		3	F	P	Starboard	RB Nun @ Four Brother	Proctor	3.43	3.43	0.69
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	11.53	13.59	2.72
	14	1	RD	G	Port	S of Rock Dunder	Saxton Reef	2.69	3.76	0.75
		2	G	A	Port	Saxton Reef	Appletree	4.82	4.82	0.96
		3	A	P	Port	Appletree	Proctor	2.27	3.18	0.64
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	12.23	15.20	3.04
	15	1	RD	Q	Starboard	S of Rock Dunder	Quaker Smith Reef	3.79	5.31	1.06
		2	Q	F	Starboard	Quaker Smith Reef	RB Nun @ Four Brother	3.56	3.56	0.71
		3	F	P	Starboard	RB Nun @ Four Brother	Proctor	3.43	3.43	0.69
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	13.24	15.74	3.15
	16	1	RD	G	Starboard	S of Rock Dunder	Saxton Reef	2.69	3.76	0.75
		2	G	F	Starboard	Saxton Reef	RB Nun @ Four Brother	2.96	2.96	0.59
		3	F	A	Starboard	RB Nun @ Four Brother	Appletree	3.33	3.33	0.67
		4	A	C	Finish	Appletree	C Mark off LCYC	4.69	6.57	1.31
	COURSE TOTAL					-	-	13.67	16.62	3.32
	17	1	RD	G	Starboard	S of Rock Dunder	Saxton Reef	2.69	3.76	0.75
		2	G	F	Starboard	Saxton Reef	RB Nun @ Four Brother	2.96	2.96	0.59
		3	F	A	Starboard	RB Nun @ Four Brother	Appletree	3.33	3.33	0.67
		4	A	P	Port	Appletree	Proctor	2.27	3.18	0.64
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	13.70	16.67	3.33

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Wind Direction	COURSE No.	Leg #	Mark Start	Mark End	Rounding Direction for END MARK	START MARK	END MARK	RLD (Nm)	Total Dist Sailed (NM)	Time @ 5 knts (hrs)
	TOTAL									
	18	1	RD	G	Starboard	S of Rock Dunder	Saxton Reef	2.69	3.76	0.75
		2	G	F	Starboard	Saxton Reef	RB Nun @ Four Brother	2.96	2.96	0.59
		3	F	JI	Port	RB Nun @ Four Brother	Juniper Island	2.24	2.24	0.45
		4	JI	A	Starboard	Juniper Island	Appletree	2.09	2.09	0.42
		5	A	P	Port	Appletree	Proctor	2.27	3.18	0.64
		6	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	14.70	17.66	3.53
	19	1	RD	Q	Port	S of Rock Dunder	Quaker Smith Reef	3.79	5.31	1.06
		2	Q	A	Port	Quaker Smith Reef	Appletree	5.86	5.86	1.17
		3	A	P	Port	Appletree	Proctor	2.27	3.18	0.64
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	14.38	17.78	3.56
	20	1	RD	Q	Starboard	S of Rock Dunder	Quaker Smith Reef	3.79	5.31	1.06
		2	Q	F	Starboard	Quaker Smith Reef	RB Nun @ Four Brother	3.56	3.56	0.71
		3	F	A	Starboard	RB Nun @ Four Brother	Appletree	3.33	3.33	0.67
		4	A	C	Finish	Appletree	C Mark off LCYC	4.69	6.57	1.31
	COURSE TOTAL					-	-	15.38	18.77	3.75
	21	1	RD	Q	Starboard	S of Rock Dunder	Quaker Smith Reef	3.79	5.31	1.06
		2	Q	F	Starboard	Quaker Smith Reef	RB Nun @ Four Brother	3.56	3.56	0.71
		3	F	A	Starboard	RB Nun @ Four Brother	Appletree	3.33	3.33	0.67
		4	A	P	Port	Appletree	Proctor	2.27	3.18	0.64
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	15.41	18.82	3.76
	22	1	RD	Q	Starboard	S of Rock Dunder	Quaker Smith Reef	3.79	5.31	1.06
		2	Q	F	Starboard	Quaker Smith Reef	RB Nun @ Four Brother	3.56	3.56	0.71
		3	F	JI	Port	RB Nun @ Four Brother	Juniper Island	2.24	2.24	0.45
		4	JI	A	Starboard	Juniper Island	Appletree	2.09	2.09	0.42
		5	A	P	Port	Appletree	Proctor	2.27	3.18	0.64
		6	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	16.41	19.82	3.96
	23	1	RD	G	Starboard	S of Rock Dunder	Saxton Reef	2.69	3.76	0.75
		2	G	X	Starboard	Saxton Reef	Schyuler Reef	5.95	5.95	1.19
		3	X	P	Starboard	Schyuler Reef	Proctor	4.84	6.77	1.35
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	15.93	19.93	3.99

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Wind Direction	COURSE No.	Leg #	Mark Start	Mark End	Rounding Direction for END MARK	START MARK	END MARK	RLD (Nm)	Total Dist Sailed (NM)	Time @ 5 knts (hrs)
	24	1	RD	Q	Starboard	S of Rock Dunder	Quaker Smith Reef	3.79	5.31	1.06
		2	Q	X	Starboard	Quaker Smith Reef	Schyuler Reef	6.68	6.68	1.34
		3	X	P	Starboard	Schyuler Reef	Proctor	4.84	6.77	1.35
		4	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	17.76	22.20	4.44
S-SW	25	1	S	C	Port	S Mark Shelburne Bay	C Mark off LCYC	1.43	2.00	0.40
		2	C	A	Port	C Mark off LCYC	Appletree	4.69	4.69	0.94
		3	A	C	Finish	Appletree	C Mark off LCYC	4.69	6.57	1.31
	COURSE TOTAL					-	-	10.81	13.26	2.65
	26	1	S	C	Port	S Mark Shelburne Bay	C Mark off LCYC	1.43	2.00	0.40
		2	C	A	Port	C Mark off LCYC	Appletree	4.69	4.69	0.94
		3	A	JI	Port	Appletree	Juniper Island	2.09	2.09	0.42
		4	JI	P	Starboard	Juniper Island	Proctor	1.19	1.19	0.24
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	11.85	13.40	2.68
	27	1	S	C	Port	S Mark Shelburne Bay	C Mark off LCYC	1.43	2.00	0.40
		2	C	A	Port	C Mark off LCYC	Appletree	4.69	4.69	0.94
		3	A	P	Port	Appletree	Proctor	2.27	3.18	0.64
		4	P	A	Port	Proctor	Appletree	2.27	2.27	0.45
		5	A	P	Port	Appletree	Proctor	2.27	3.18	0.64
		6	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	15.38	18.75	3.75
	28	1	S	C	Port	S Mark Shelburne Bay	C Mark off LCYC	1.43	2.00	0.40
		2	C	A	Port	C Mark off LCYC	Appletree	4.69	4.69	0.94
		3	A	G	Port	Appletree	Saxton Reef	4.82	6.74	1.35
		4	G	P	Starboard	Saxton Reef	Proctor	3.25	3.25	0.65
		5	P	C	Finish	Proctor	C Mark off LCYC	2.46	3.44	0.69
	COURSE TOTAL					-	-	16.65	20.13	4.03

Appendix 1: Courses - Racers version

Wind Direction	COURSE No.	Course Description	Total Distance Nm
N-NW	1	C, A(p), F(p), P(s), C	15.8
	2	C, A(p), P(p), A(p), P(p), C	16.7
	3	C, A(p), G(p), P(p), C	18.4
	4	C, A(p), F(p), G(p), P(s), C	19.9
	5	C, A(p), Q(p), P(s), C	21.0
	6	C, A(p), F(p), Q(p), P(s), C	22.0
N-NW	7	P, A(p), F(p), P(s), C	12.4
	8	P, X(p), F(p), P(s), C	15.8
	9	P, A(p), F(p), G(p), P(s), C	16.5
	10	P, A(p), F(p), Q(p), P(s), C	18.6
Wind Direction	COURSE No.	Course Description	Total Distance Nm
S-SW	11	RD, G(p), P(s), C	10.5
	12	RD, Q(p), P(s), C	13.1
	13	RD, G(s), F(s), P(s), C	13.6
	14	RD, G(p), A(p), P(p), C	15.2
	15	RD, Q(s), F(s), P(s), C	15.7
	16	RD, G(s), F(s), A(s), C	16.6
	17	RD, G(s), F(s), A(s), P(p), C	16.7
	18	RD, G(s), F(s), JI(p), A(s), P(p), C	17.7
	19	RD, Q(p), A(p), P(p), C	17.8
	20	RD, Q(s), F(s), A(s), C	18.8
	21	RD, Q(s), F(s), A(s), P(p), C	18.8
	22	RD, Q(s), F(s), JI(p), A(s), P(p), C	19.8
	23	RD, G(s), X(s), P(s), C	19.9
	24	RD, Q(s), X(s), P(s), C	22.2
S-SW	25	S, C(p), A(p), C	13.3
	26	S, C(p), A(p), JI(p), P(s), C	13.4
	27	S, C(p), A(p), P(p), A(p), P(p), C	18.7
	28	S, C(p), A(p), G(p), P(s), C	20.1

Appendix 2: Mark to Mark Distances

Leg	START MARK	END MARK	RLD (Nm)
A - C	Appletree	C Mark off LCYC	4.7
A - F	Appletree	RB Nun @ Four Brother	3.3
A - G	Appletree	Saxton Reef	4.8
A - JI	Appletree	Juniper Island	2.1
A - P	Appletree	Proctor	2.3
A - Q	Appletree	Quaker Smith Reef	5.9
C - A	C Mark off LCYC	Appletree	4.7
F - A	RB Nun @ Four Brother	Appletree	3.3
F - G	RB Nun @ Four Brother	Saxton Reef	3.0
F - JI	RB Nun @ Four Brother	Juniper Island	2.2
F - JI	RB Nun @ Four Brother	Juniper Island	2.2
F - P	RB Nun @ Four Brother	Proctor	3.4
F - Q	RB Nun @ Four Brother	Quaker Smith Reef	3.6
FR - P	Ferris Rock BR	Proctor	6.5
G - A	Saxton Reef	Appletree	4.8
G - F	Saxton Reef	RB Nun @ Four Brother	3.0
G - P	Saxton Reef	Proctor	3.3
G - X	Saxton Reef	Schyuler Reef	5.9
GIL - C	Red Nun Garden Isle	C Mark off LCYC	13.8
GIL - Q	Red Nun Garden Isle	Quaker Smith Reef	14.0
GIL - SI	Red Nun Garden Isle	Sloop Island	18.3
GIL - X	Red Nun Garden Isle	Schyuler Reef	7.3
JI - A	Juniper Island	Appletree	2.1
JI - P	Juniper Island	Proctor	1.2
P - A	Proctor	Appletree	2.3
P - C	Proctor	C Mark off LCYC	2.5
P - GIL	Proctor	Red Nun Garden Isle	11.4
P - Q	Proctor	Quaker Smith Reef	4.4
P - X	Proctor	Schyuler Reef	4.8
Q - A	Quaker Smith Reef	Appletree	5.9
Q - F	Quaker Smith Reef	RB Nun @ Four Brother	3.6
Q - FR	Quaker Smith Reef	Ferris Rock BR	8.7
Q - GIL	Quaker Smith Reef	Red Nun Garden Isle	14.0
Q - P	Quaker Smith Reef	Proctor	4.4
Q - X	Quaker Smith Reef	Schyuler Reef	6.7
RD - G	S of Rock Dunder	Saxton Reef	2.7
RD - Q	S of Rock Dunder	Quaker Smith Reef	3.8
RD - SI	S of Rock Dunder	Sloop Island	8.4
S - C	S Mark Shelburne Bay	C Mark off LCYC	1.4
SI - GIL	Sloop Island	Red Nun Garden Isle	18.3

SI - P	Sloop Island	Proctor	8.9
X - A	Schyuler Reef	Appletree	3.0
X - F	Schyuler Reef	RB Nun @ Four Brother	3.1
X - P	Schyuler Reef	Proctor	4.8