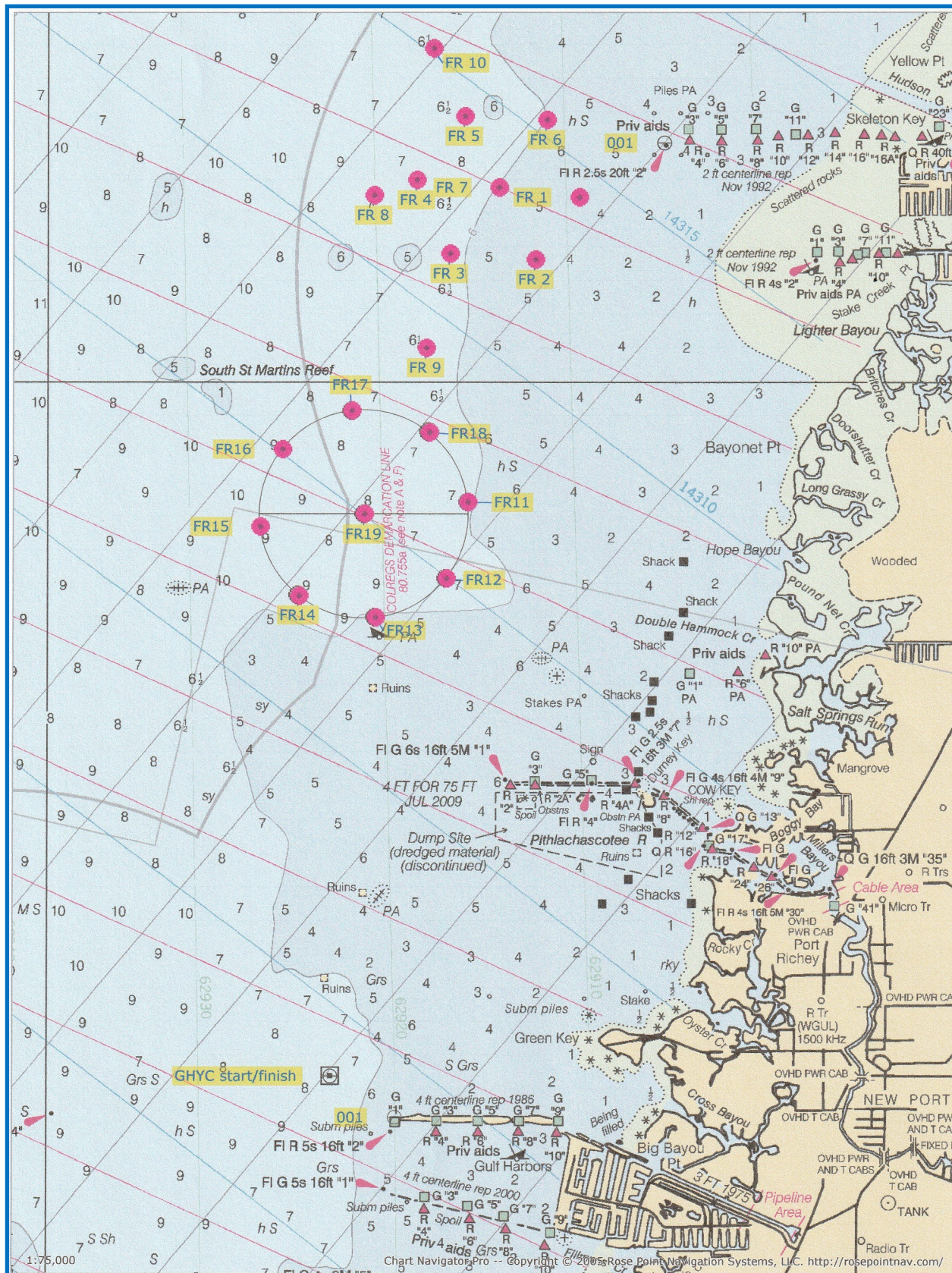




2024
Hudson Beach Yacht Club
Racing Waypoints

These are the waypoints that will be used for our club races.
Please enter them into your GPS so you have them ready to go.

EXISTING WAYPOINTS		
Name	Coordinates	
FR 1	N 28° 21.339'	W 82° 45.695'
FR 2	N 28° 20.886'	W 82° 46.050'
FR 3	N 28° 20.928'	W 82° 46.742'
FR 4	N 28° 21.458'	W 82° 47.013'
FR 5	N 28° 21.916'	W 82° 46.624'
FR 6	N 28° 21.889'	W 82° 45.958'
FR 7	N 28° 21.404'	W 82° 46.346'
FR 8	N 28° 21.350'	W 82° 47.385'
FR 9	N 28° 20.250'	W 82° 46.934'
FR 10	N 28° 22.406'	W 82° 46.877'
ST. MARTIN'S	N 28° 25.819'	W 82° 55.123'
NEW WAYPOINTS		
Name	Coordinates	
FR 11	N 28° 19.142'	W 82° 46.595'
FR 12	N 28° 18.592'	W 82° 46.767
FR 13	N 28° 18.311'	W 82° 47.343'
FR 14	N 28° 18.466'	W 82° 47.964'
FR 15	N 28° 18.964'	W 82° 48.280'
FR 16	N 28° 19.523'	W 82° 48.099'
FR 17	N 28° 19.800'	W 82° 47.536'
FR 18	N 28° 19.644'	W 82° 46.907'
FR 19	N 28° 19.056'	W 82° 47.434'



HBYC RACING WAYPOINTS

HBYC DISTANCES AND BEARINGS

FR1 –FR10

HBYC Distance Between Marks - Nautical Miles

	FR1	FR2	FR3	FR4	FR5	FR6	FR7	FR8	FR9	FR10
FR1	0.00	0.55	1.01	1.17	0.96	0.60	0.58	1.48	1.54	1.49
FR2	0.55	0.00	0.51	1.02	1.15	1.01	0.58	1.27	1.01	1.69
FR3	1.01	0.51	0.00	0.58	1.00	1.19	0.59	0.71	0.70	1.49
FR4	1.17	1.02	0.58	0.00	0.57	1.03	0.58	0.35	1.21	0.96
FR5	0.96	1.15	1.00	0.57	0.00	0.59	0.59	0.89	1.69	0.54
FR6	0.60	1.01	1.19	1.03	0.59	0.00	0.59	1.37	1.85	0.96
FR7	0.58	0.58	0.59	0.58	0.58	0.59	0.00	0.92	1.27	1.11
FR8	1.48	1.27	0.71	0.35	0.87	1.37	0.92	0.00	1.17	1.15
FR9	1.54	1.01	0.70	1.21	1.69	1.85	1.27	1.17	0.00	2.16
FR10	1.49	1.69	1.49	0.96	0.54	0.96	1.11	1.15	2.16	0.00

HBYC Bearing Between Marks

	FR1	FR2	FR3	FR4	FR5	FR6	FR7	FR8	FR9	FR10
FR1	NA	219	250	280	310	342	281	275	229	320
FR2	39	NA	278	308	338	9	338	296	235	339
FR3	70	98	NA	340	10	40	41	311	198	0
FR4	100	128	160	NA	41	97	100	256	181	11
FR5	130	158	190	41	NA	69	159	234	194	340
FR6	162	189	220	249	277	NA	219	251	212	307
FR7	101	158	221	280	339	39	NA	271	208	339
FR8	95	49	131	76	54	71	91	NA	164	27
FR9	49	55	18	1	14	32	28	344	NA	6
FR10	140	159	180	191	160	307	159	207	186	NA

HBYC DISTANCES AND BEARINGS

FR11 –FR19

Distance Between Marks in Nautical Miles									
from->to	FR 11	FR 12	FR 13	FR 14	FR 15	FR 16	FR 17	FR 18	FR 19
FR 11	0.00	0.57	1.06	1.38	1.50	1.38	1.06	0.57	0.75
FR 12	0.57	0.00	0.58	1.06	1.38	1.50	1.38	1.06	0.75
FR 13	1.06	0.58	0.00	0.57	1.05	1.38	1.50	1.39	0.75
FR 14	1.38	1.06	0.57	0.00	0.57	1.06	1.39	1.50	0.75
FR 15	1.50	1.38	1.05	0.57	0.00	0.58	1.06	1.39	0.75
FR 16	1.38	1.50	1.38	1.06	0.58	0.00	0.57	1.06	0.75
FR 17	1.06	1.38	1.50	1.39	1.06	0.57	0.00	0.58	0.75
FR 18	0.57	1.06	1.39	1.50	1.39	1.06	0.58	0.00	0.75
FR 19	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.00

Bearing Between Marks in Degrees-Magnetic									
from->to	FR 11	FR 12	FR 13	FR 14	FR 15	FR 16	FR 17	FR 18	FR 19
FR 11	X	202	225	247	270	293	315	338	270
FR 12	22	X	248	270	292	315	338	0	315
FR 13	45	68	X	292	315	338	0	23	0
FR 14	67	90	112	X	338	0	23	45	45
FR 15	90	112	135	158	X	23	45	67	90
FR 16	113	135	158	180	203	X	67	90	135
FR 17	135	158	180	202	225	247	X	112	180
FR 18	158	180	203	225	247	270	292	X	225
FR 19	90	135	180	225	270	315	0	45	X