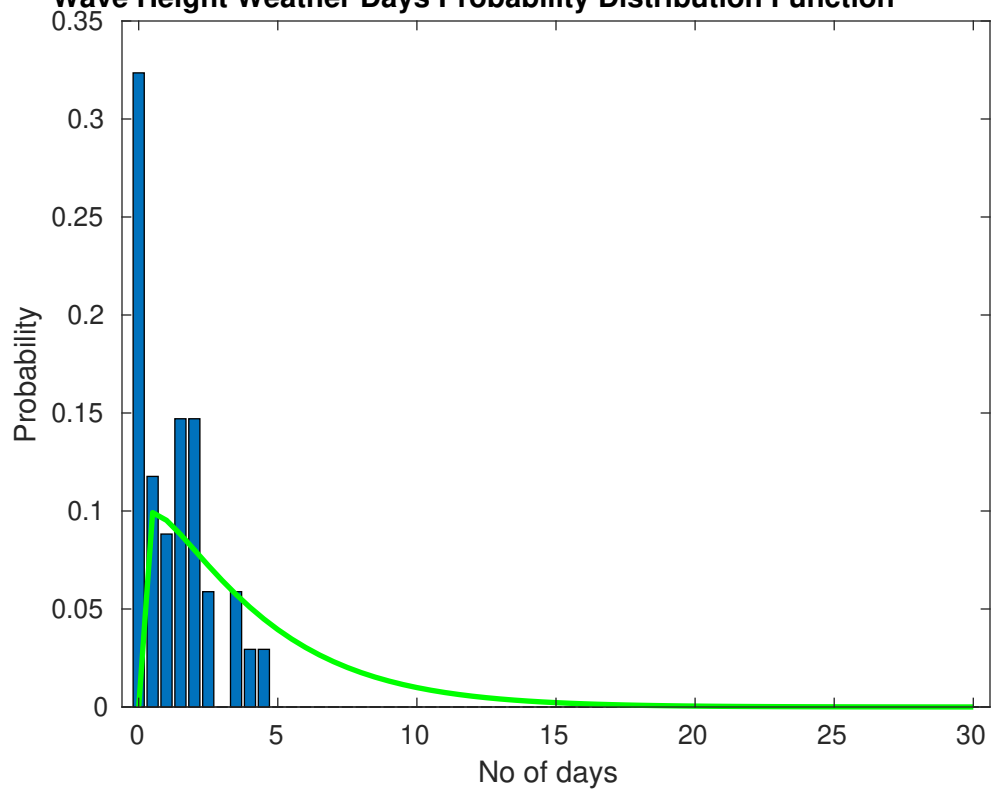
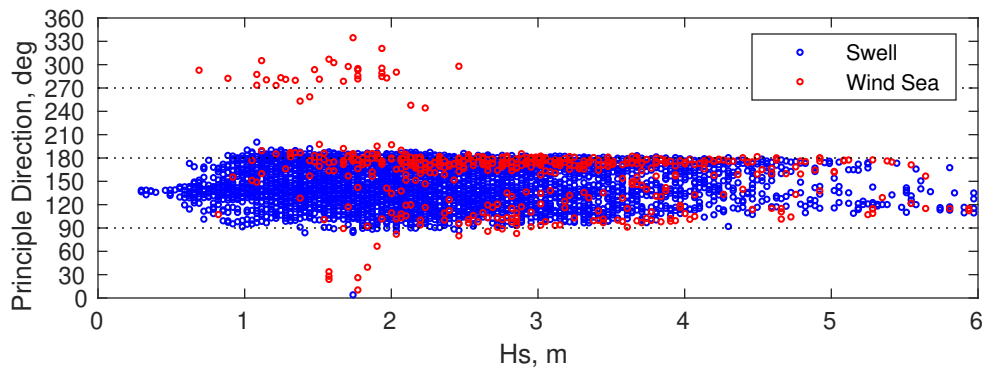
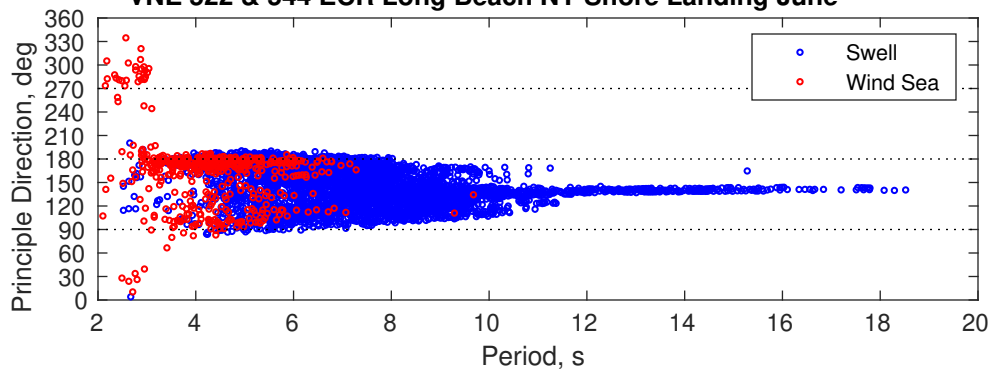


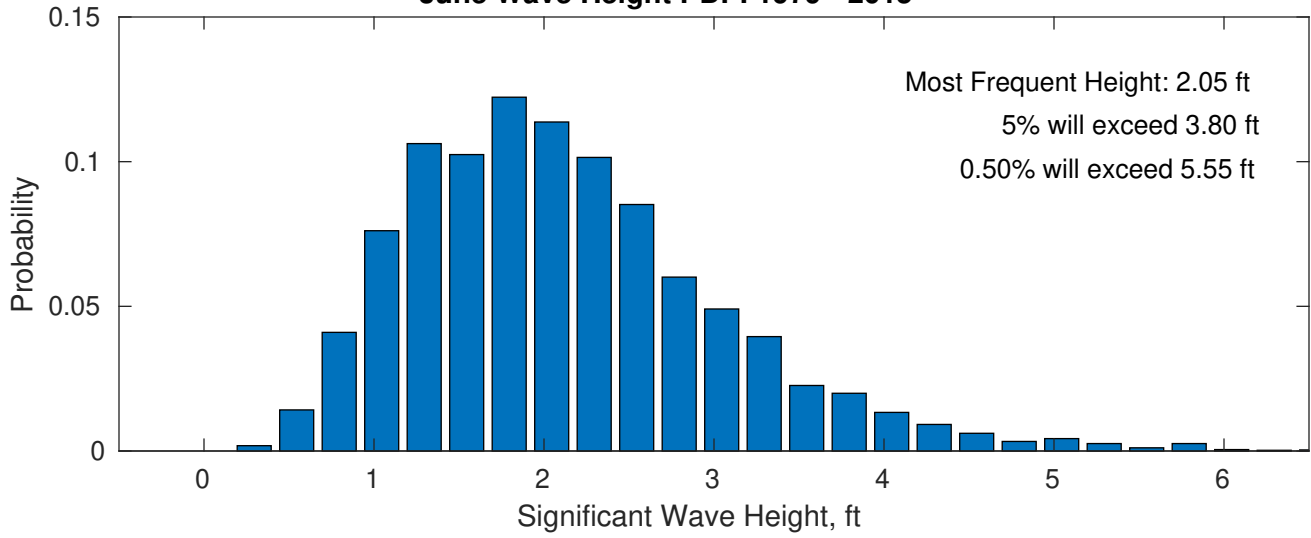
Wave Height Weather Days Probability Distribution Function



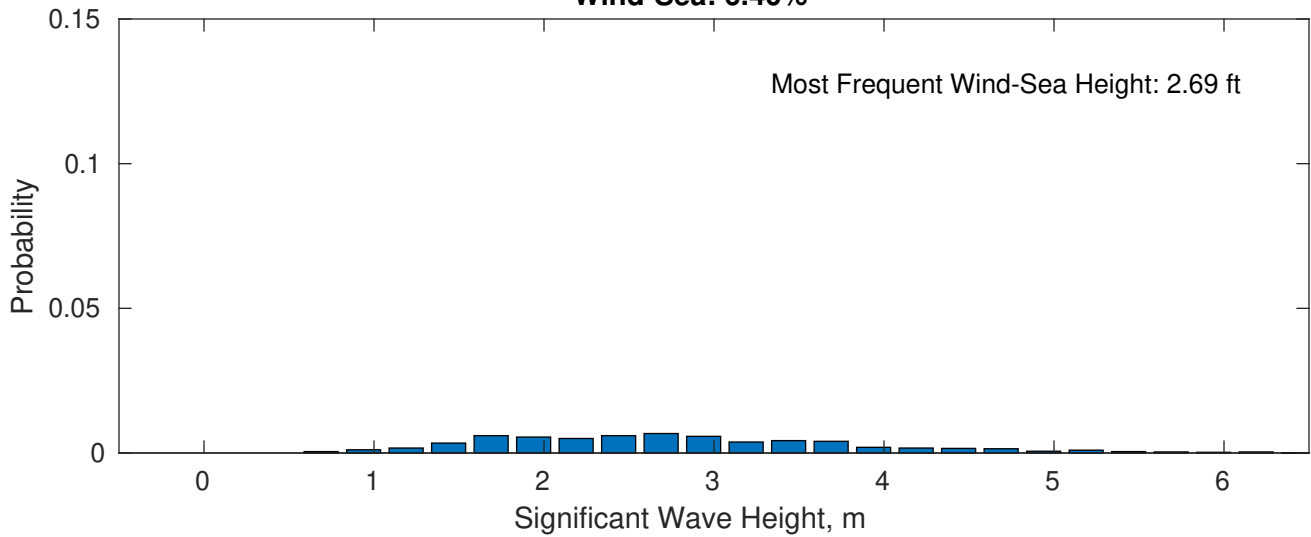
VNE 522 & 544 ECR Long Beach NY Shore Landing June



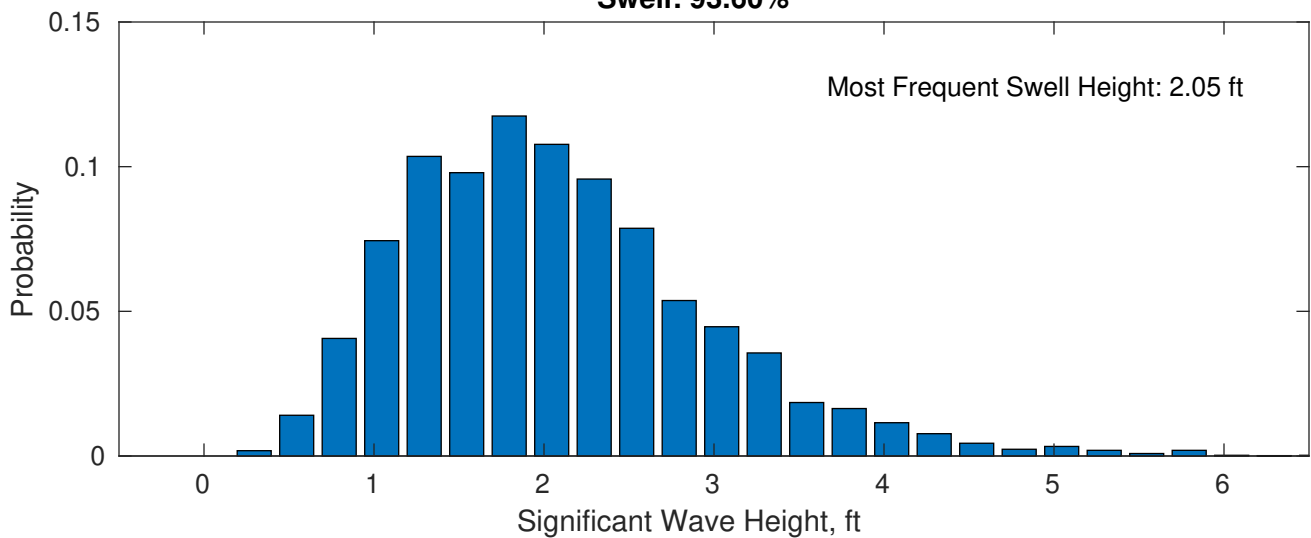
June Wave Height PDF: 1979 - 2015



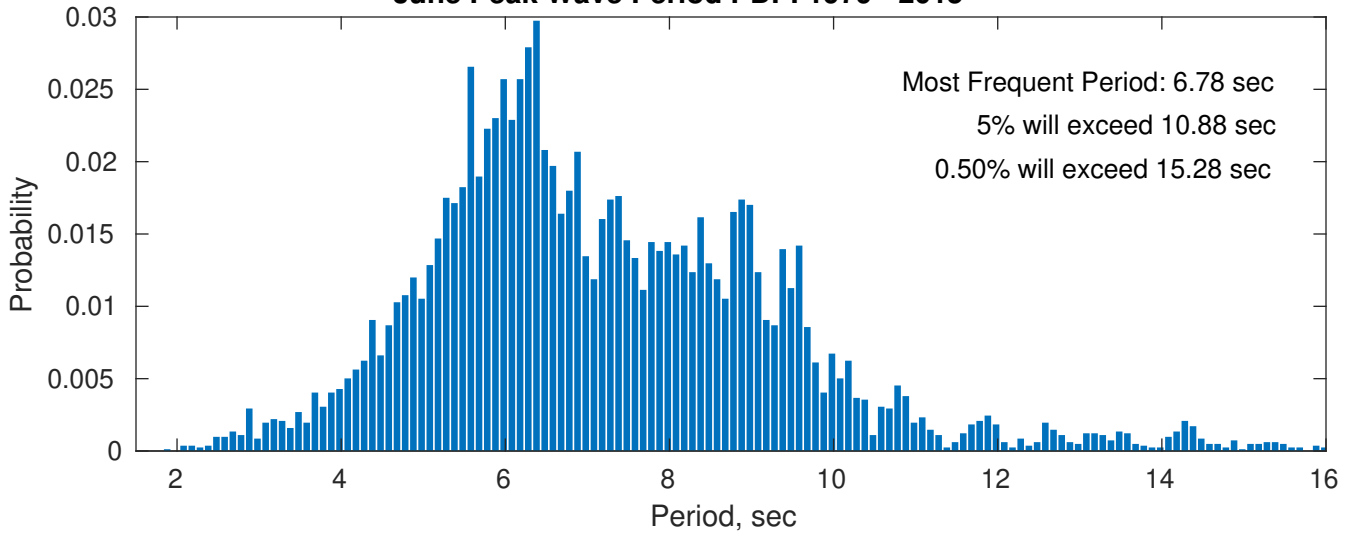
Wind-Sea: 6.40%



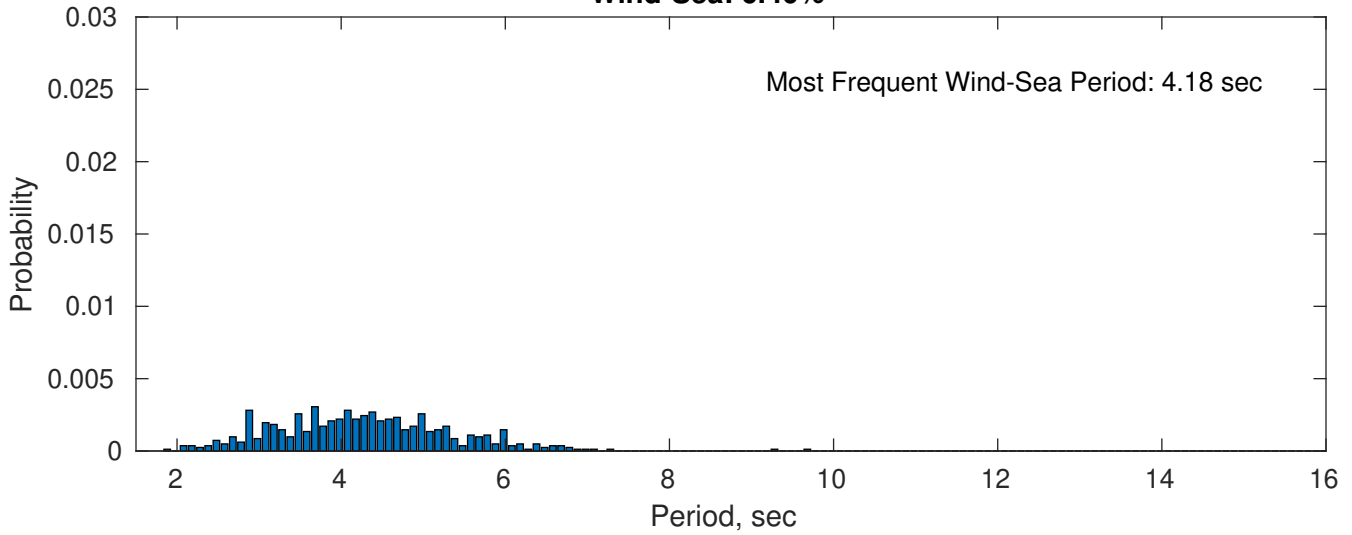
Swell: 93.60%



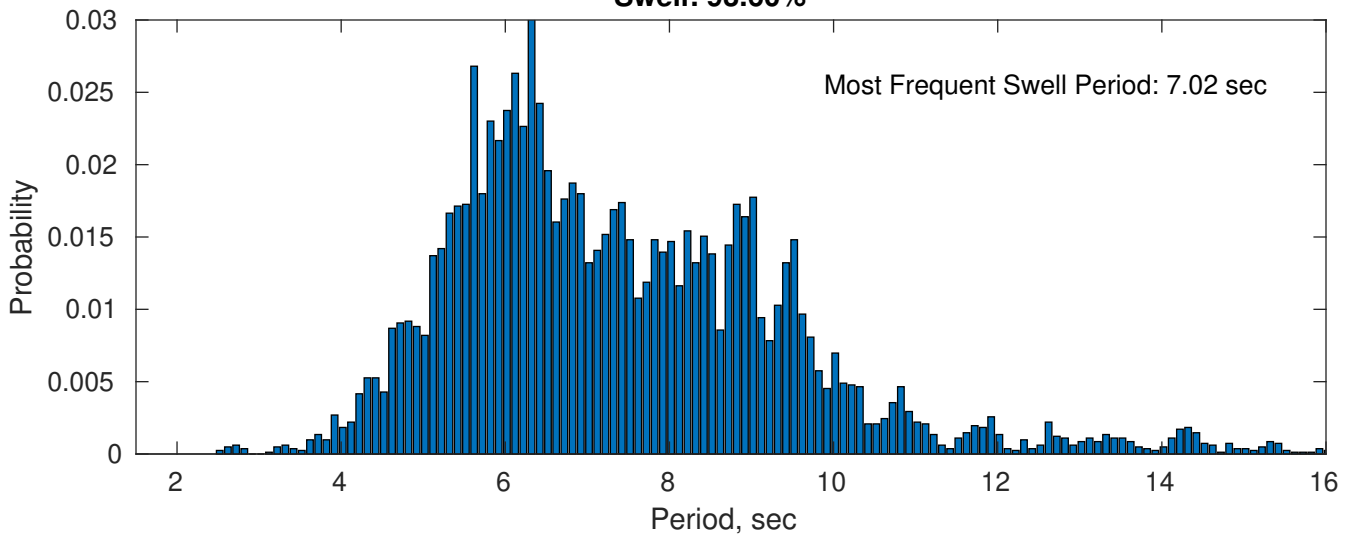
June Peak Wave Period PDF: 1979 - 2015



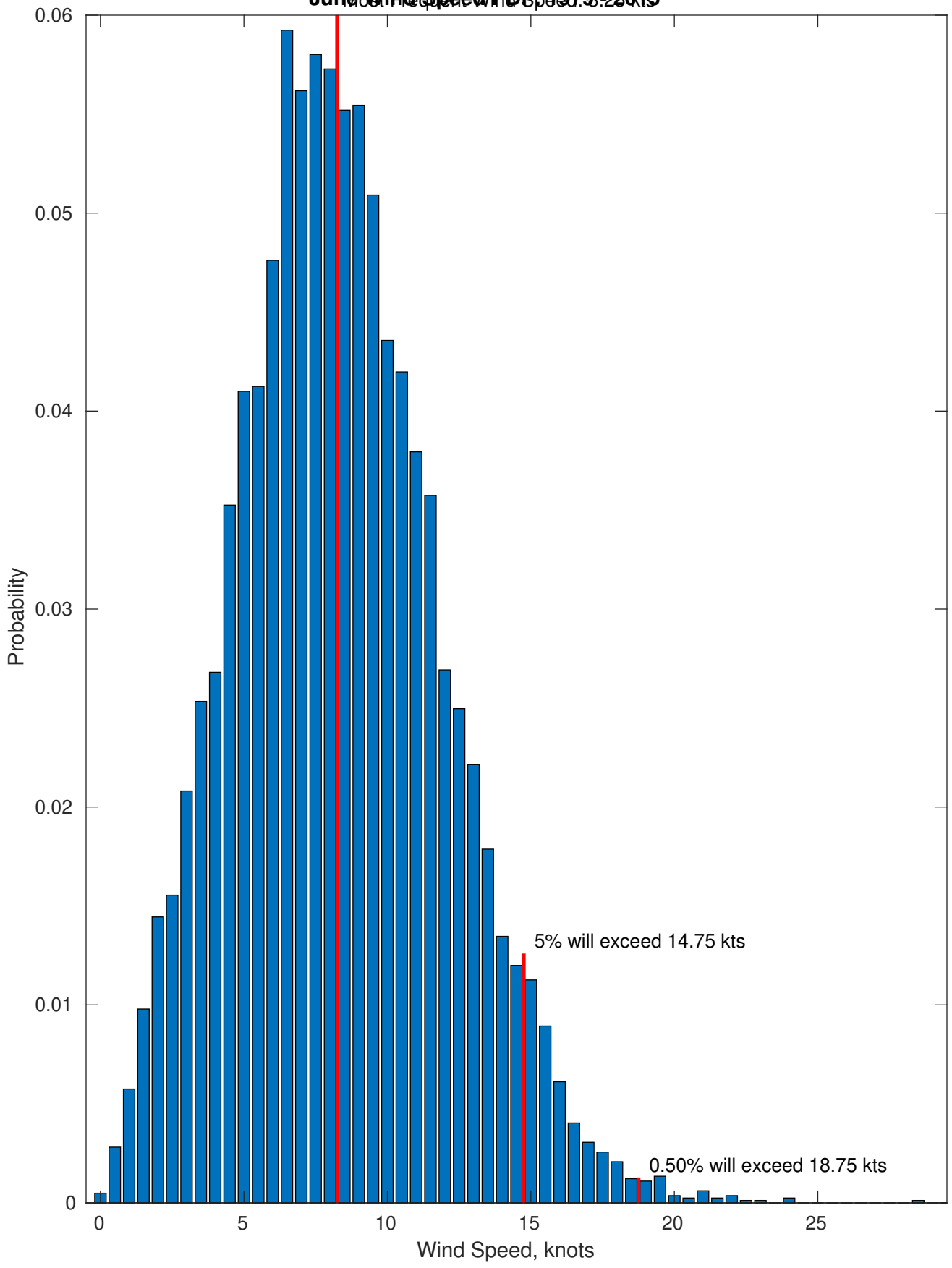
Wind-Sea: 6.40%



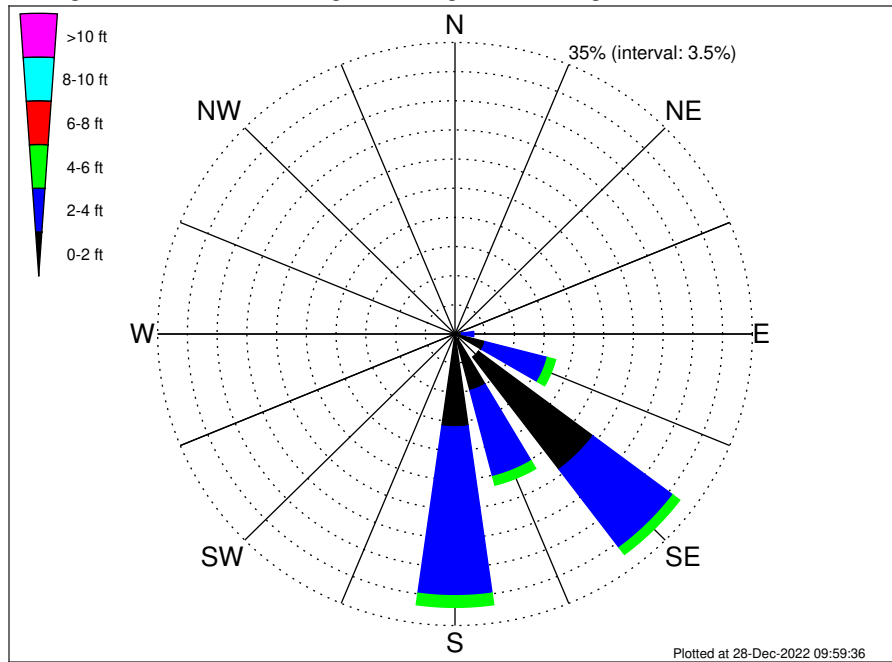
Swell: 93.60%



June Wind Speed PDF, 1979-2015



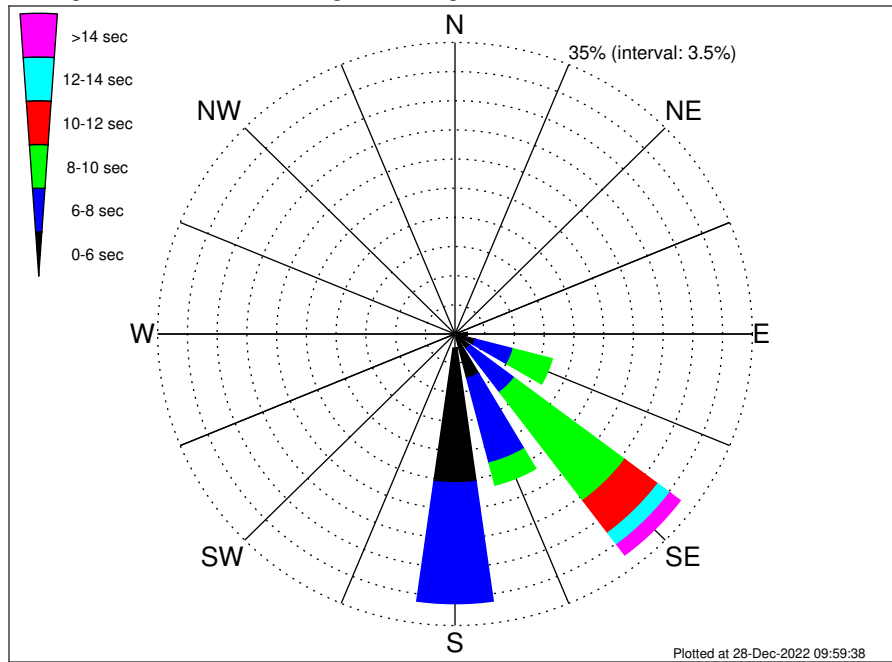
VNE 522 & 544 ECR Long Beach NY Shore Landing Climatological WaveHeight Rose for June: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	0.09	0.28	3.45	0.66	0.26	•	•	•	•	0.02	•	•	4.76
1 - 2 ft	0.02	0.04	0.02	0.01	0.70	3.38	16.90	6.34	10.89	0.06	•	0.02	0.07	0.17	0.04	0.01	38.69
2 - 4 ft	•	•	•	•	1.43	7.58	11.75	10.67	20.27	0.01	•	0.02	•	0.02	•	•	51.76
4 - 6 ft	•	•	•	•	0.02	1.00	1.03	1.08	1.40	•	•	•	•	•	•	•	4.53
6 - 8 ft	•	•	•	•	•	0.09	0.07	0.10	•	•	•	•	•	•	•	•	0.26
8 - 10 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10 - 12 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.02	0.04	0.02	0.01	2.24	12.33	33.21	18.85	32.82	0.07	•	0.05	0.07	0.22	0.04	0.01	100.00

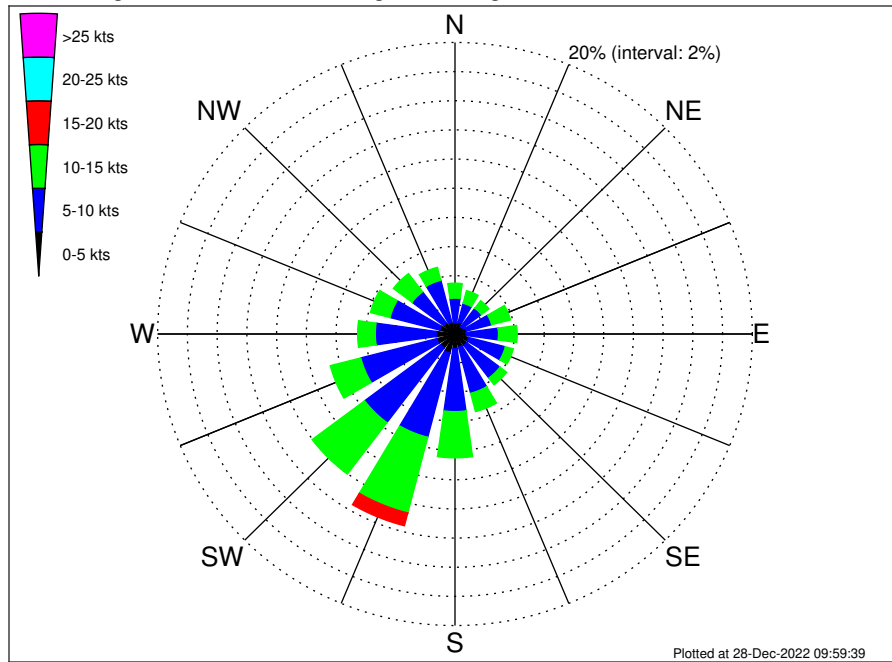
VNE 522 & 544 ECR Long Beach NY Shore Landing Climatological WavePeriod Rose for June: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	0.01	•	•	0.01
2 - 4 sec	0.02	0.04	0.02	0.01	0.18	0.35	0.18	0.48	1.69	0.07	•	0.05	0.07	0.21	0.04	0.01	3.44
4 - 6 sec	•	•	•	•	1.27	2.11	2.02	5.02	16.18	•	•	•	•	•	•	•	26.60
6 - 8 sec	•	•	•	•	0.69	4.63	6.54	10.50	14.50	•	•	•	•	•	•	•	36.85
8 - 10 sec	•	•	•	•	0.10	4.74	16.29	2.75	0.42	•	•	•	•	•	•	•	24.30
10 - 12 sec	•	•	•	•	•	0.50	4.86	0.09	0.02	•	•	•	•	•	•	•	5.47
12 - 14 sec	•	•	•	•	•	•	1.76	•	•	•	•	•	•	•	•	•	1.76
14 - 16 sec	•	•	•	•	•	•	1.27	0.01	•	•	•	•	•	•	•	•	1.29
18 - 20 sec	•	•	•	•	•	•	0.24	•	•	•	•	•	•	•	•	•	0.24
22 - 24 sec	•	•	•	•	•	•	0.04	•	•	•	•	•	•	•	•	•	0.04
Total	0.02	0.04	0.02	0.01	2.24	12.33	33.21	18.85	32.82	0.07	•	0.05	0.07	0.22	0.04	0.01	100.00

VNE 522 & 544 ECR Long Beach NY Shore Landing Climatological Wind Rose for June: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.05	0.05	0.02	0.02	0.02	•	0.01	•	0.01	0.02	0.02	0.02	0.04	•	0.01	0.01	0.33
0 - 5 kts	0.72	0.82	0.61	0.76	0.73	0.95	0.98	0.94	0.99	1.33	1.20	1.24	1.24	1.06	0.94	0.84	15.37
5 - 10 kts	1.69	1.31	1.58	1.76	2.17	2.55	2.79	3.26	4.32	5.96	6.39	5.29	4.09	3.45	2.67	2.95	52.22
10 - 15 kts	1.03	0.89	0.65	1.31	1.26	0.55	0.58	1.30	3.17	5.36	4.42	2.12	1.19	1.36	1.57	0.92	27.66
15 - 20 kts	0.12	0.22	0.26	0.44	0.28	0.10	0.05	0.10	0.33	0.91	0.43	0.11	0.20	0.24	0.21	0.18	4.17
20 - 25 kts	0.01	•	0.01	0.05	0.06	0.01	0.01	•	0.04	0.02	•	•	•	0.01	•	•	0.23
25 - 30 kts	•	•	•	•	0.01	•	•	•	•	•	•	•	•	•	•	•	0.01
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	3.62	3.29	3.13	4.35	4.54	4.16	4.42	5.59	8.86	13.61	12.46	8.78	6.74	6.13	5.40	4.91	100.00