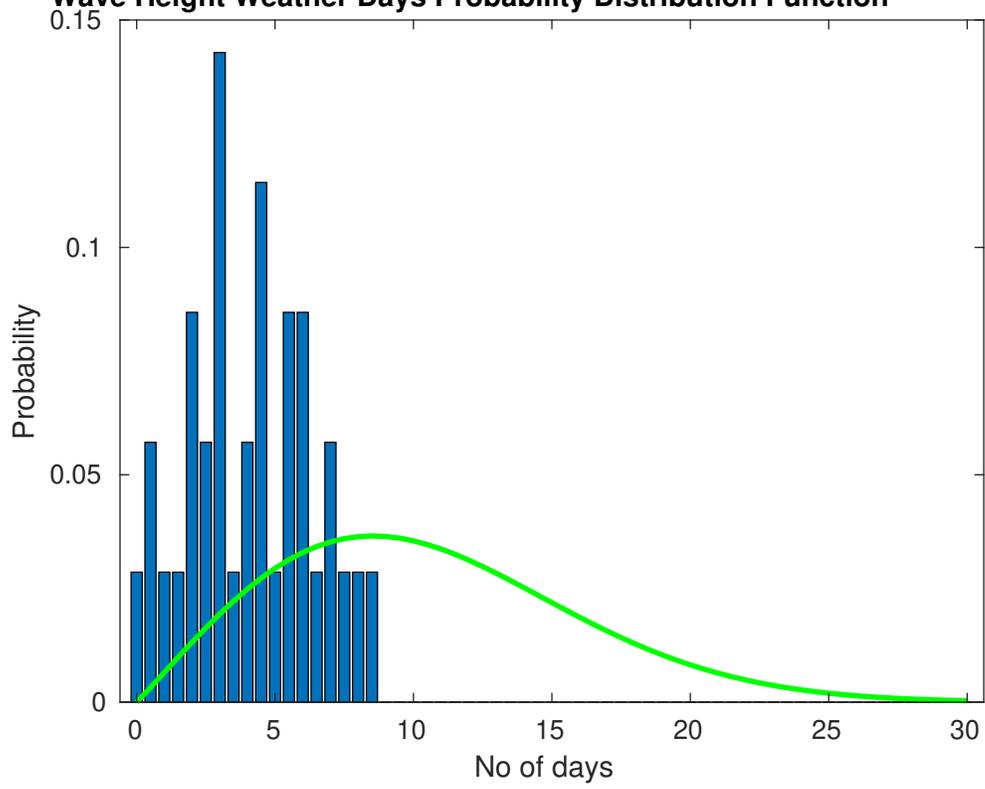
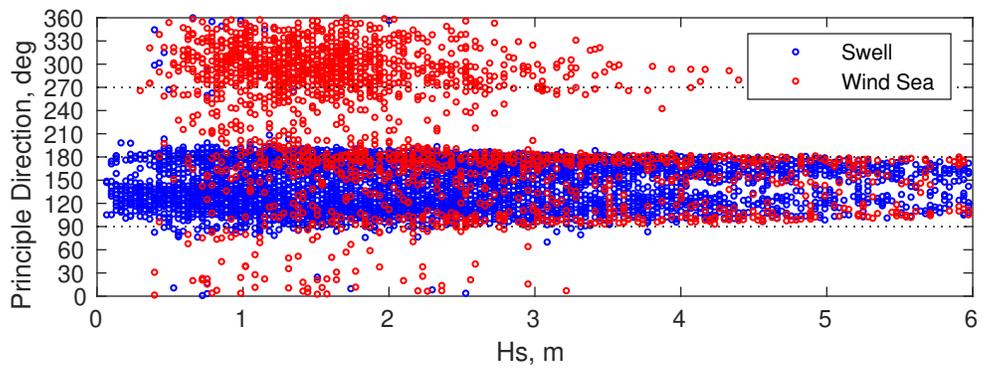
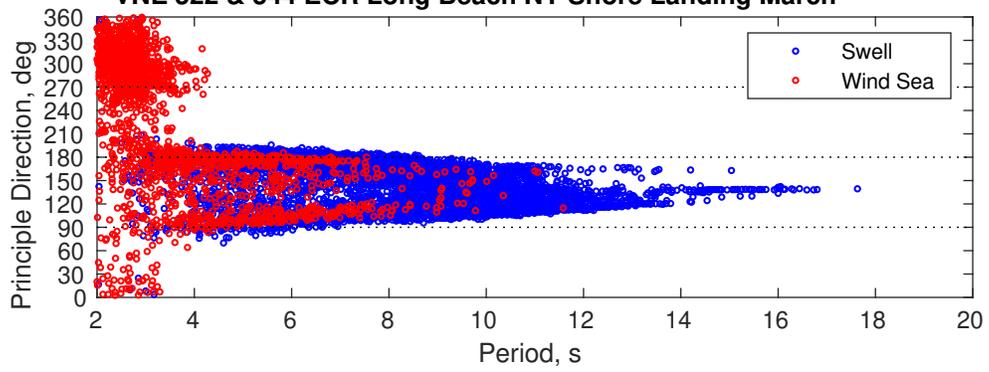


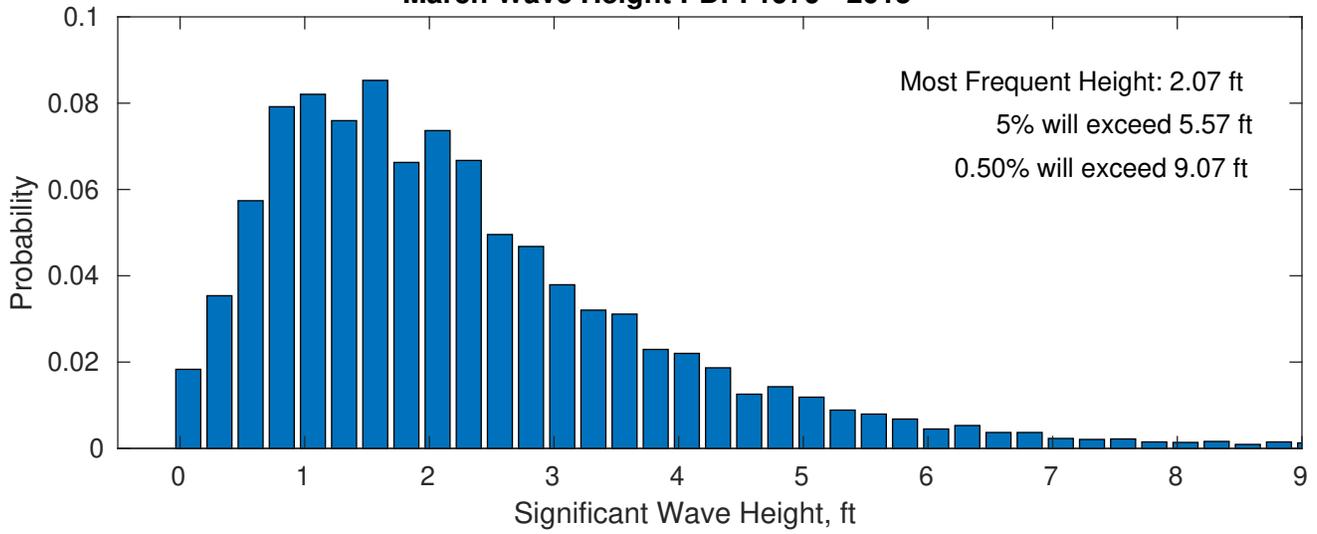
Wave Height Weather Days Probability Distribution Function



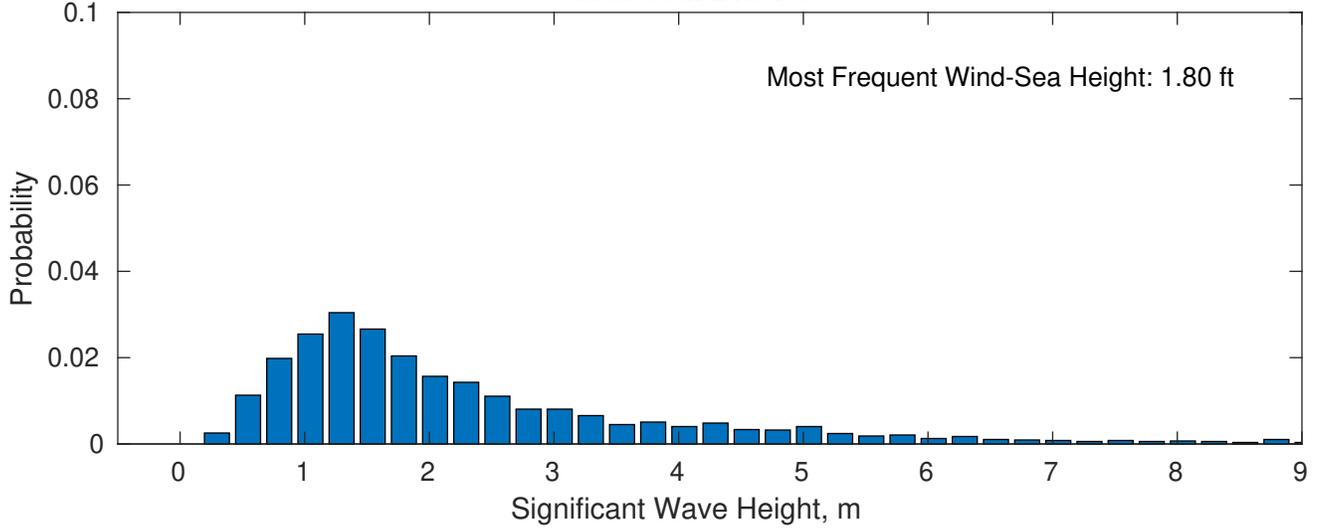
VNE 522 & 544 ECR Long Beach NY Shore Landing March



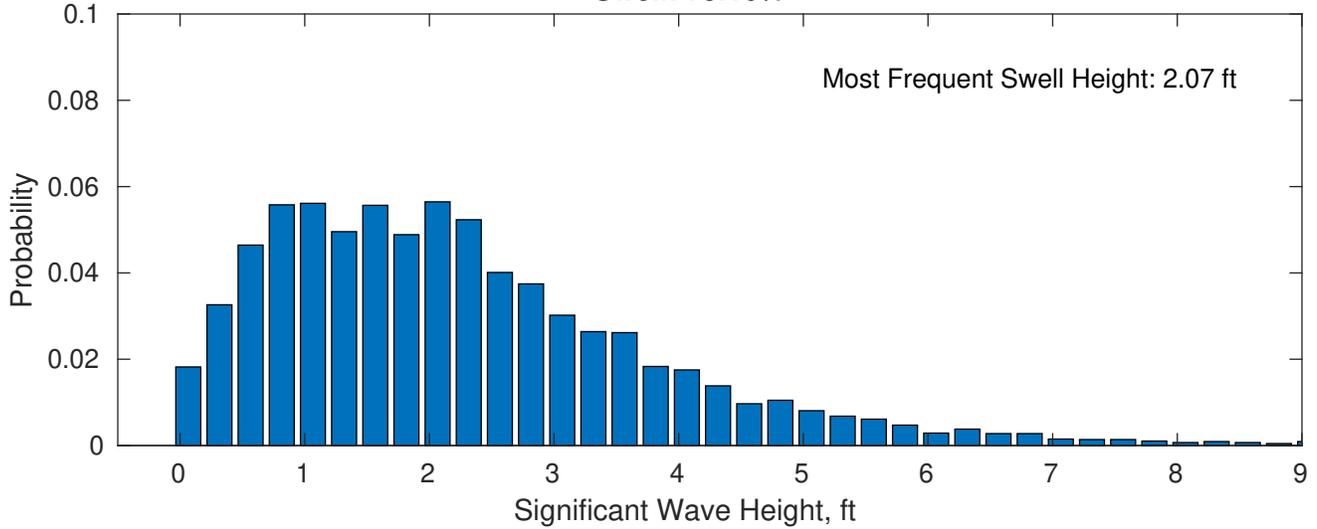
March Wave Height PDF: 1979 - 2015



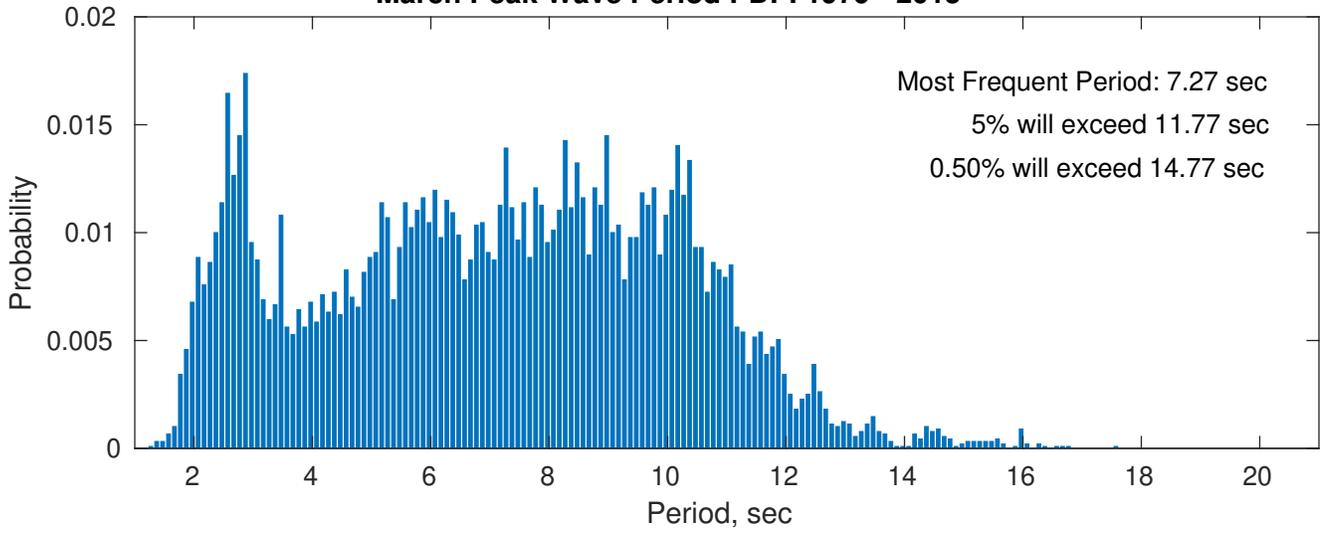
Wind-Sea: 24.84%



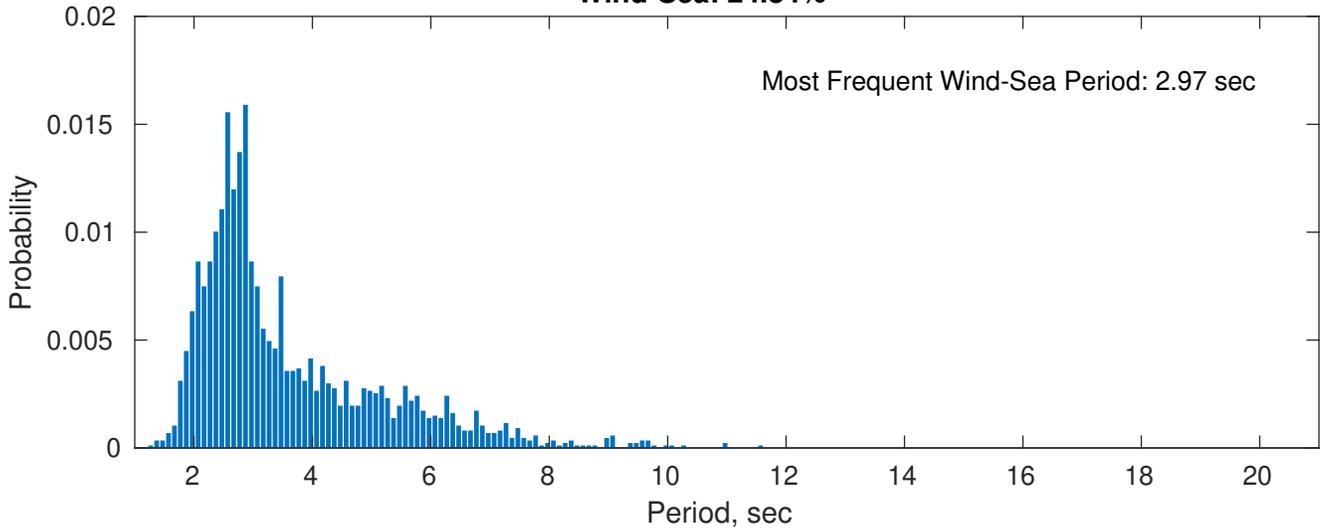
Swell: 75.16%



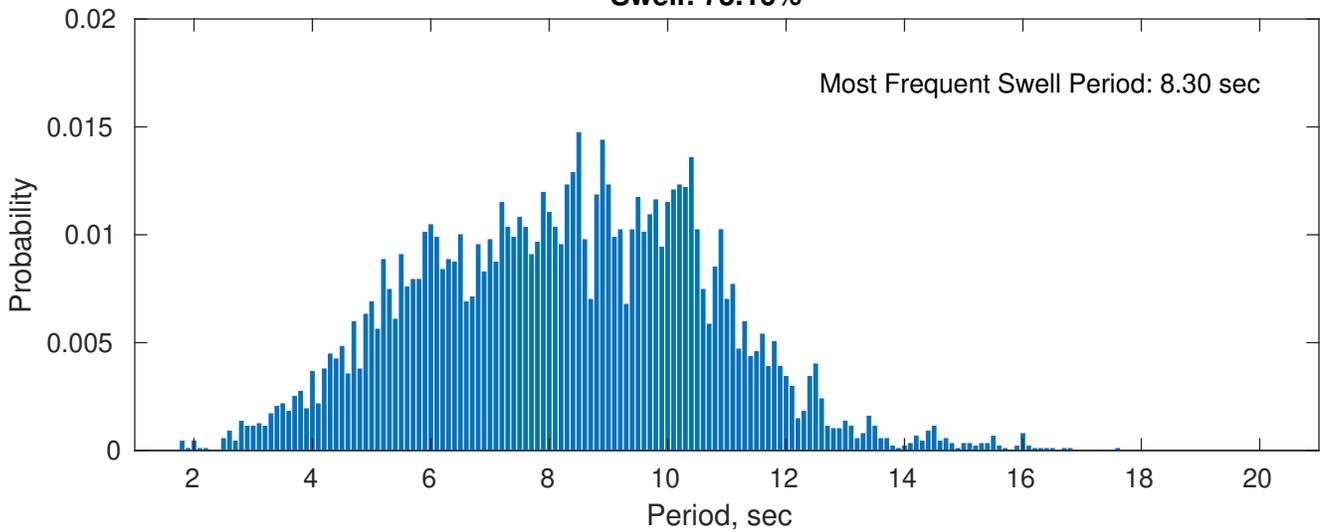
March Peak Wave Period PDF: 1979 - 2015



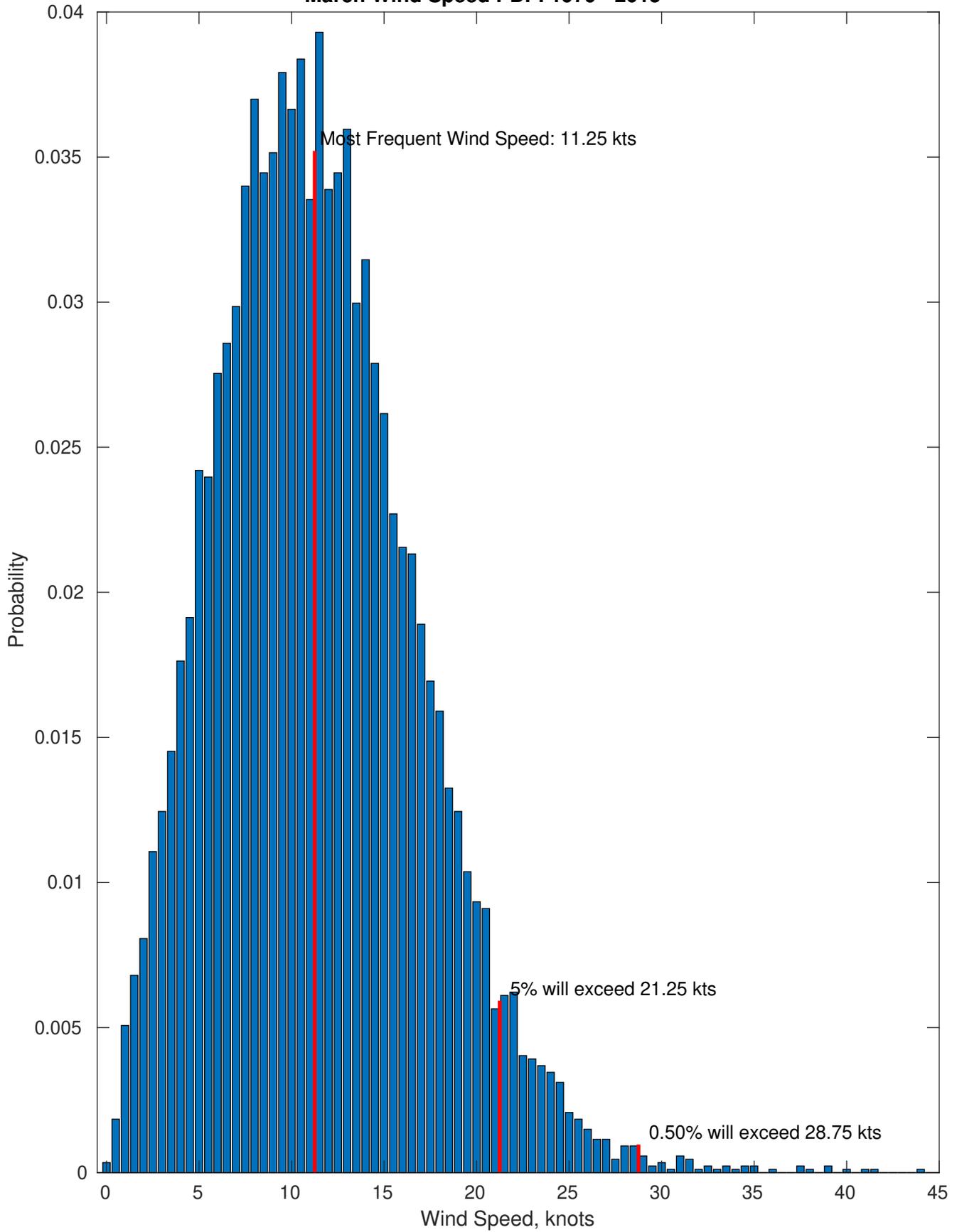
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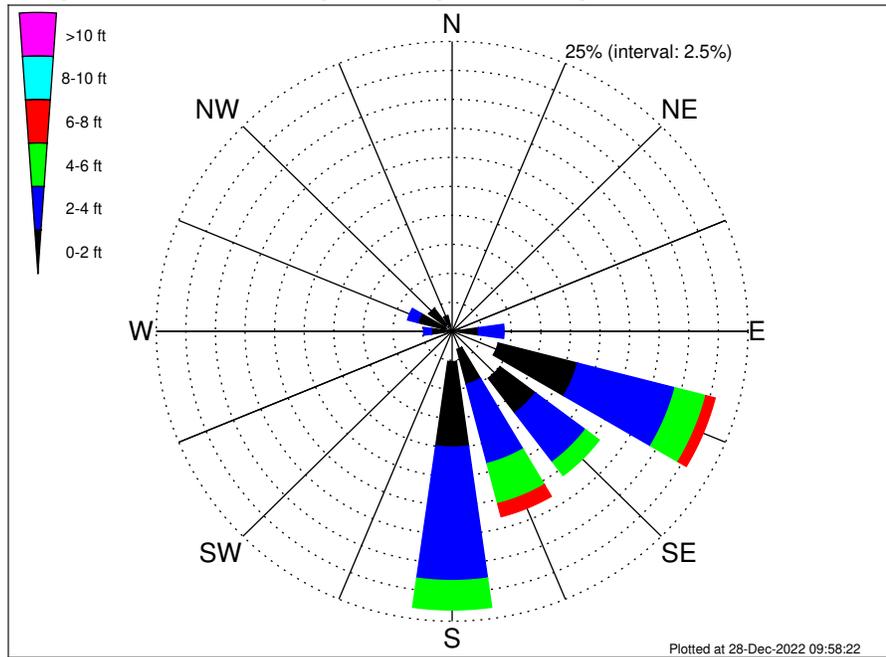
Swell: 75.16%



March Wind Speed PDF: 1979 - 2015



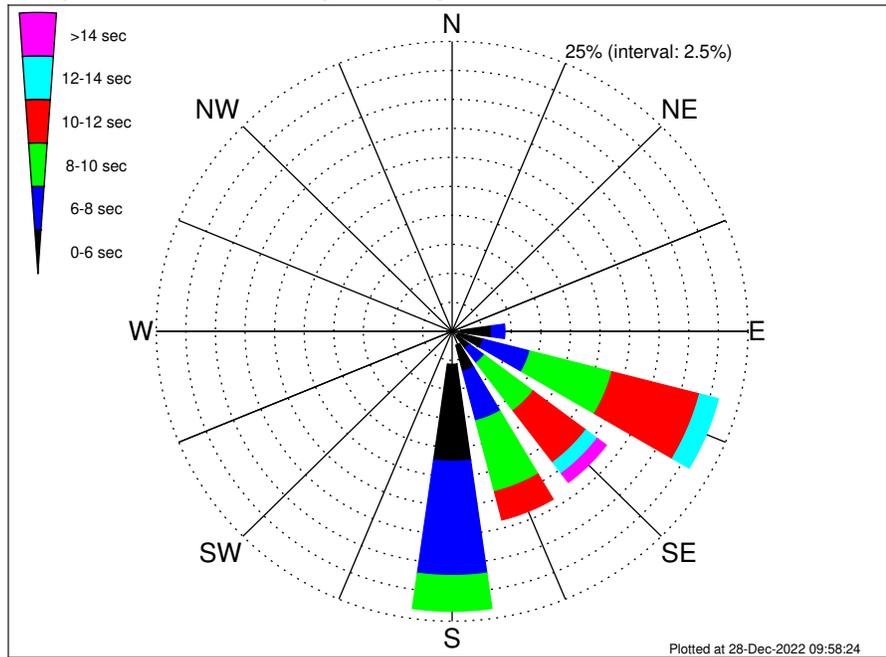
VNE 522 & 544 ECR Long Beach NY Shore Landing Climatological WaveHeight Rose for March: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.20	0.09	0.01	0.08	0.54	4.02	5.06	1.60	2.62	0.30	0.15	0.13	0.37	0.59	0.70	0.46	16.92
1 - 2 ft	0.31	0.13	0.09	0.10	1.68	6.93	3.76	3.12	7.36	0.47	0.16	0.56	1.38	2.40	1.77	0.96	31.20
2 - 4 ft	0.13	0.06	0.02	0.05	2.17	8.51	5.28	7.05	11.51	0.13	0.08	0.15	0.67	0.91	0.33	0.30	37.34
4 - 6 ft	.	.	.	.	0.41	2.70	1.48	3.57	2.54	.	.	.	0.05	0.06	0.01	.	10.81
6 - 8 ft	.	.	.	.	0.01	0.81	0.44	1.16	0.17	.	.	.	.	.	.	.	2.59
8 - 10 ft	.	.	.	.	.	0.21	0.24	0.43	0.01	.	.	.	.	.	.	.	0.89
10 - 12 ft	.	.	.	.	.	0.09	0.05	0.08	0.01	.	.	.	.	.	.	.	0.23
12 - 14 ft	.	.	.	.	.	.	0.01	0.01	.	.	.	.	.	.	.	.	0.02
14 - 16 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16 - 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
> 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	0.63	0.28	0.13	0.23	4.82	23.26	16.31	17.03	24.22	0.90	0.39	0.84	2.47	3.95	2.82	1.72	100.00

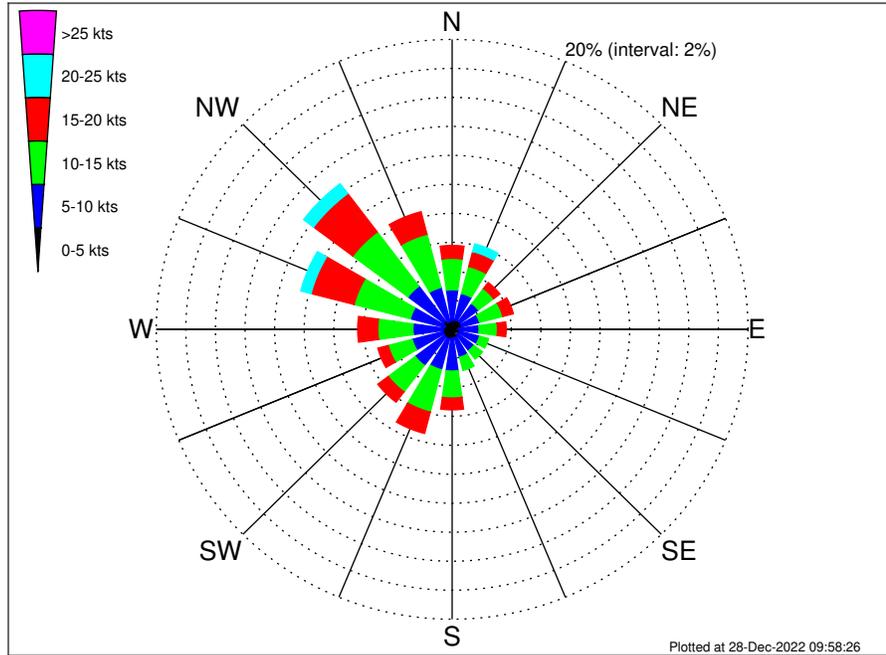
VNE 522 & 544 ECR Long Beach NY Shore Landing Climatological WavePeriod Rose for March: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ENE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	0.09	0.03	•	0.02	0.03	0.01	0.02	0.05	0.05	0.02	0.07	0.08	0.15	0.14	0.27	0.23	1.27
2 - 4 sec	0.54	0.24	0.13	0.15	0.74	0.54	0.52	1.20	2.80	0.61	0.32	0.76	2.27	3.78	2.55	1.49	18.64
4 - 6 sec	•	•	•	0.06	2.57	2.17	1.30	2.32	8.37	0.24	•	•	0.05	0.03	0.01	•	17.11
6 - 8 sec	•	•	•	•	1.12	4.08	1.57	4.41	9.85	0.02	•	•	•	•	•	•	21.06
8 - 10 sec	•	•	•	•	0.36	7.16	5.15	6.32	3.07	•	•	•	•	•	•	•	22.05
10 - 12 sec	•	•	•	•	•	7.64	5.59	2.51	0.09	•	•	•	•	•	•	•	15.83
12 - 14 sec	•	•	•	•	•	1.64	1.20	0.21	•	•	•	•	•	•	•	•	3.04
14 - 16 sec	•	•	•	•	•	0.02	0.80	0.02	•	•	•	•	•	•	•	•	0.84
18 - 20 sec	•	•	•	•	•	•	0.16	•	•	•	•	•	•	•	•	•	0.16
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.63	0.28	0.13	0.23	4.82	23.26	16.31	17.03	24.22	0.90	0.39	0.84	2.47	3.95	2.82	1.72	100.00

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



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.02	0.01	•	0.02	0.02	0.02	0.03	0.01	•	0.01	0.02	0.01	•	•	0.02	•	0.22
0 - 5 kts	0.60	0.65	0.70	0.65	0.43	0.53	0.44	0.59	0.60	0.68	0.63	0.63	0.59	0.51	0.70	0.55	9.47
5 - 10 kts	2.11	1.90	1.52	1.24	1.37	1.36	1.37	1.39	2.28	2.19	2.47	2.14	2.06	2.41	3.01	2.43	31.27
10 - 15 kts	2.17	1.92	1.29	1.62	1.24	0.63	0.73	0.93	1.86	3.02	2.28	1.67	2.37	3.93	4.68	3.79	34.15
15 - 20 kts	0.89	1.06	0.53	0.74	0.59	0.27	0.27	0.38	0.82	1.52	0.89	0.73	1.36	3.01	3.32	1.60	17.96
20 - 25 kts	0.29	0.54	0.32	0.47	0.30	0.20	0.12	0.07	0.33	0.33	0.08	0.09	0.45	0.71	0.84	0.31	5.46
25 - 30 kts	0.01	0.05	0.10	0.20	0.08	0.02	0.08	0.08	0.05	0.08	0.03	0.02	0.09	0.07	0.08	0.03	1.08
30 - 35 kts	•	•	0.02	0.10	0.05	•	0.01	•	•	0.01	•	0.01	0.01	0.01	0.01	0.01	0.25
35 - 40 kts	•	•	0.01	0.06	0.02	•	•	•	•	•	•	•	•	•	•	•	0.09
40 - 45 kts	•	•	•	0.05	•	•	•	•	•	•	•	•	•	•	•	•	0.05
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	6.09	6.13	4.51	5.15	4.10	3.03	3.04	3.46	5.94	7.85	6.41	5.31	6.94	10.65	12.67	8.74	100.00