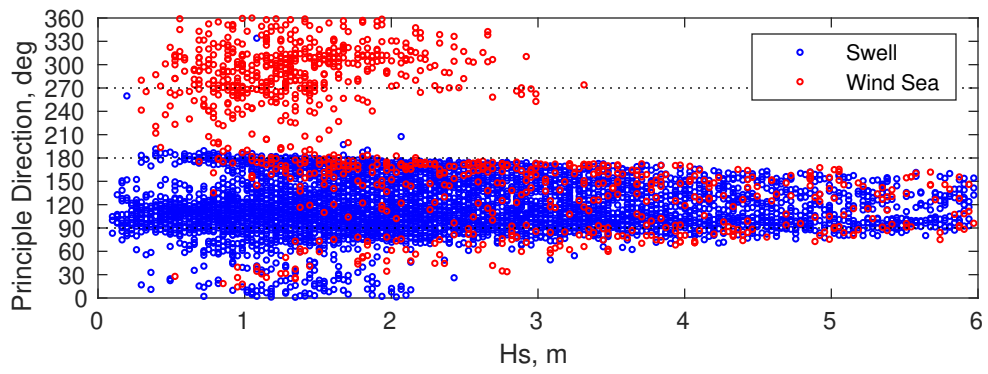
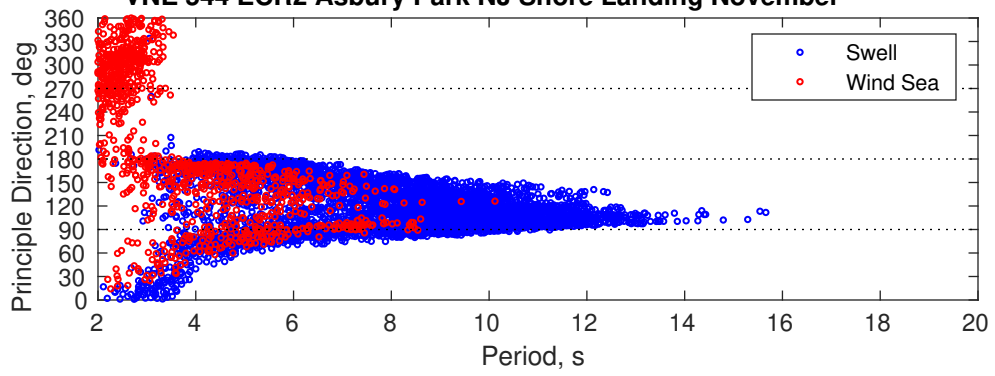
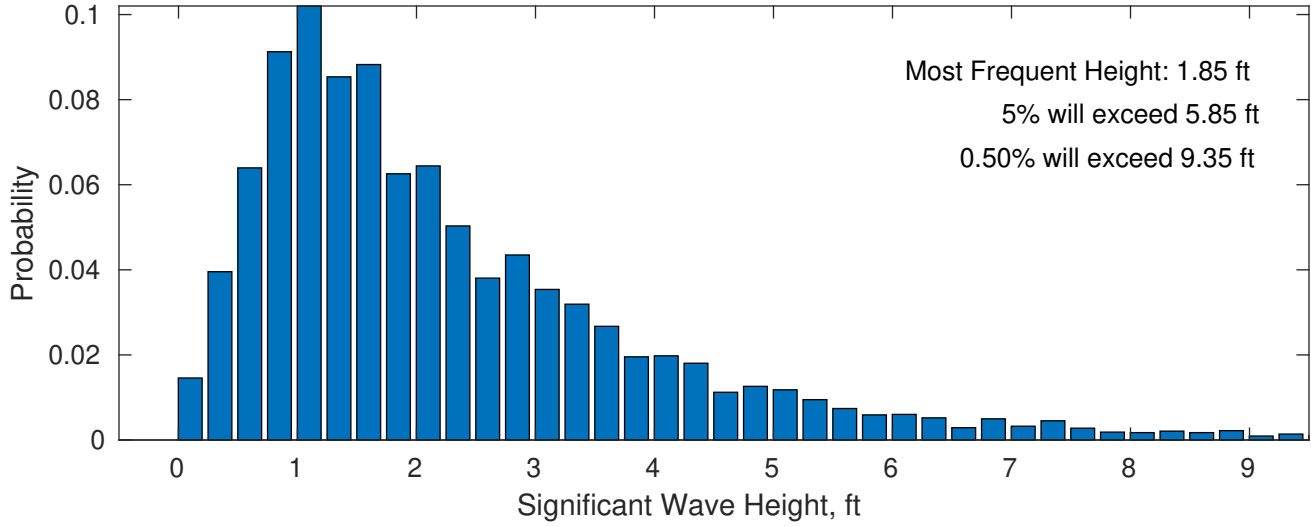


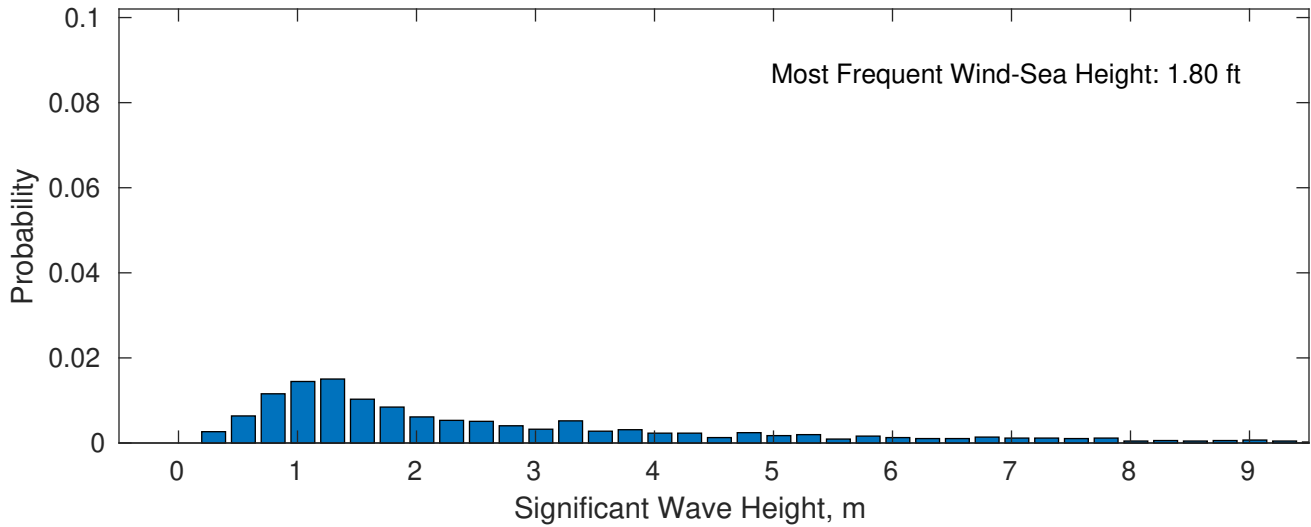
VNE 544 ECR2 Asbury Park NJ Shore Landing November



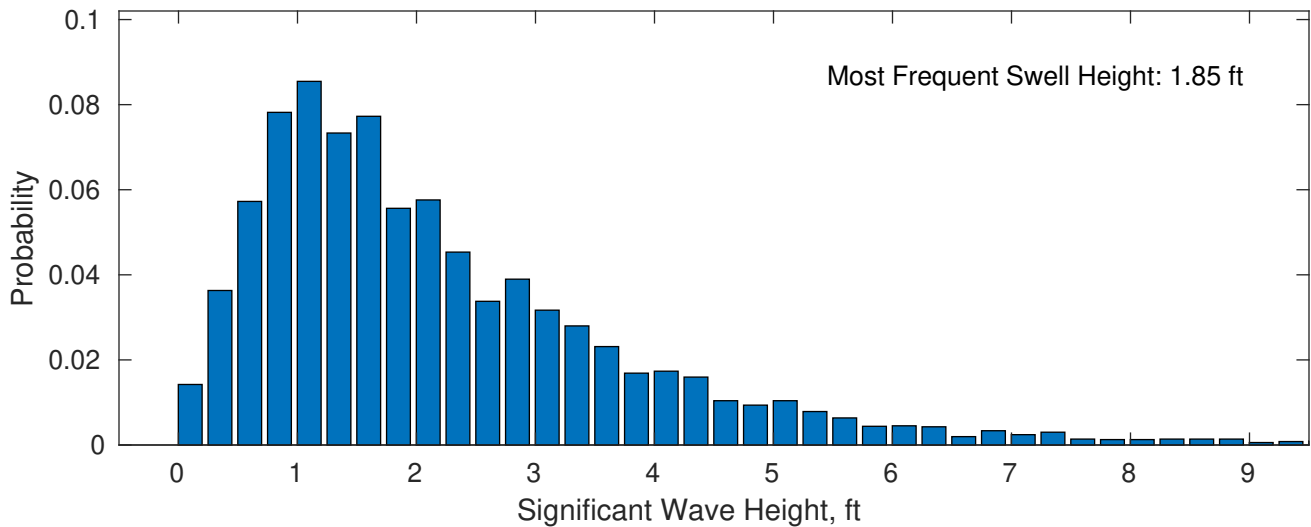
**November Wave Height PDF: 1979 - 2015**



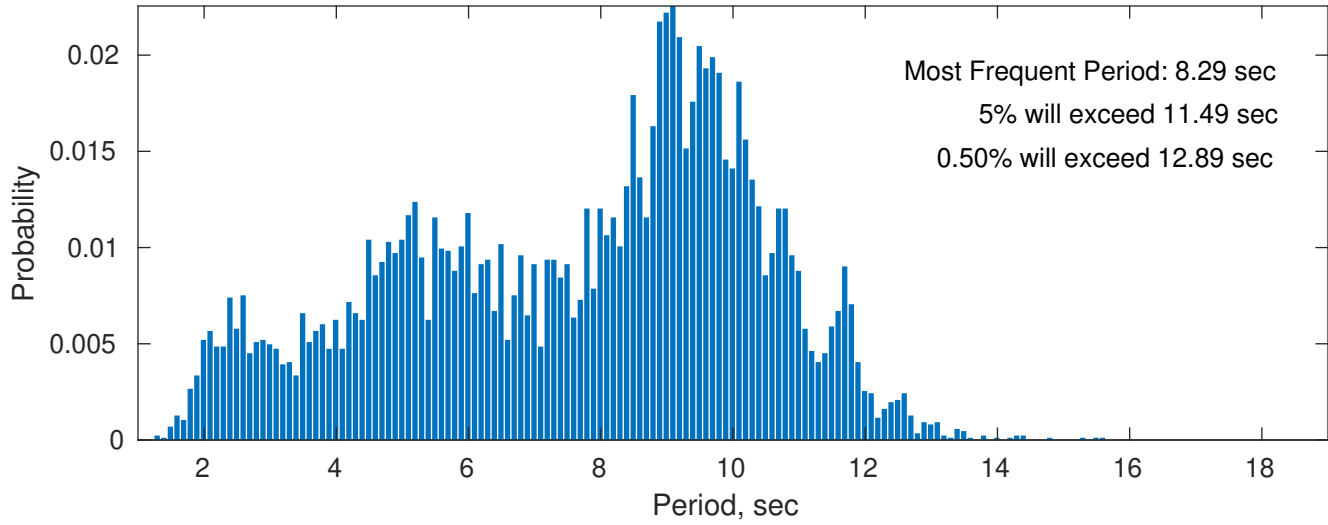
**Wind-Sea: 13.25%**



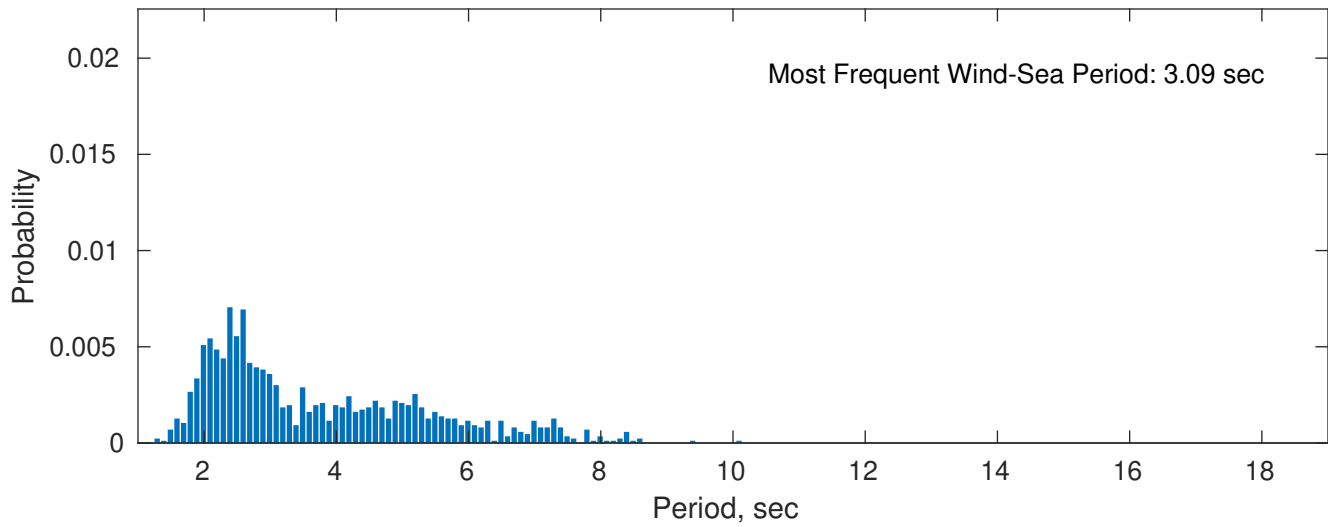
**Swell: 86.75%**



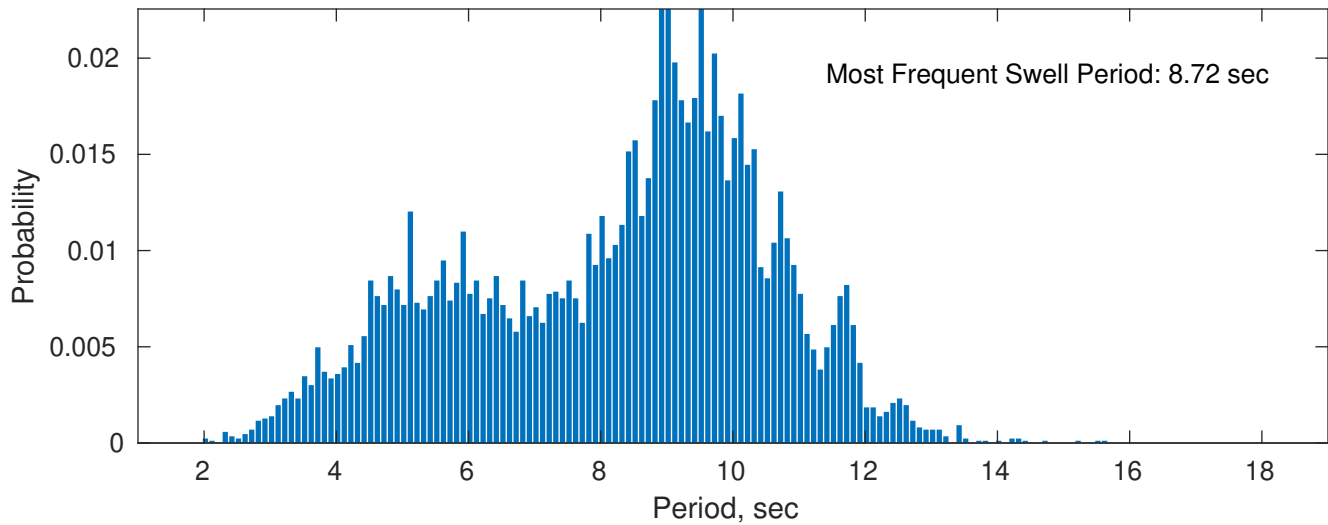
### November Peak Wave Period PDF: 1979 - 2015



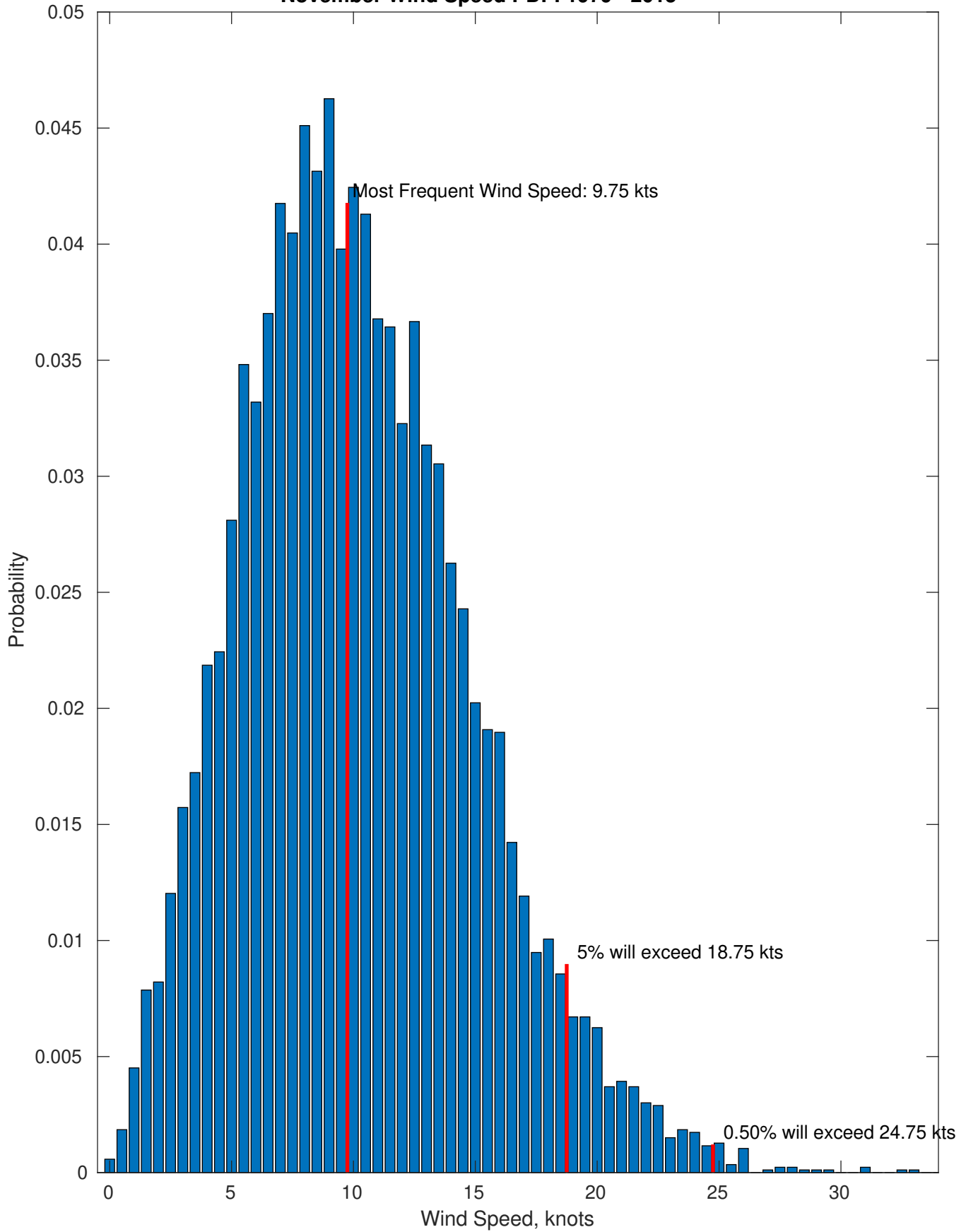
### Wind-Sea: 13.25%



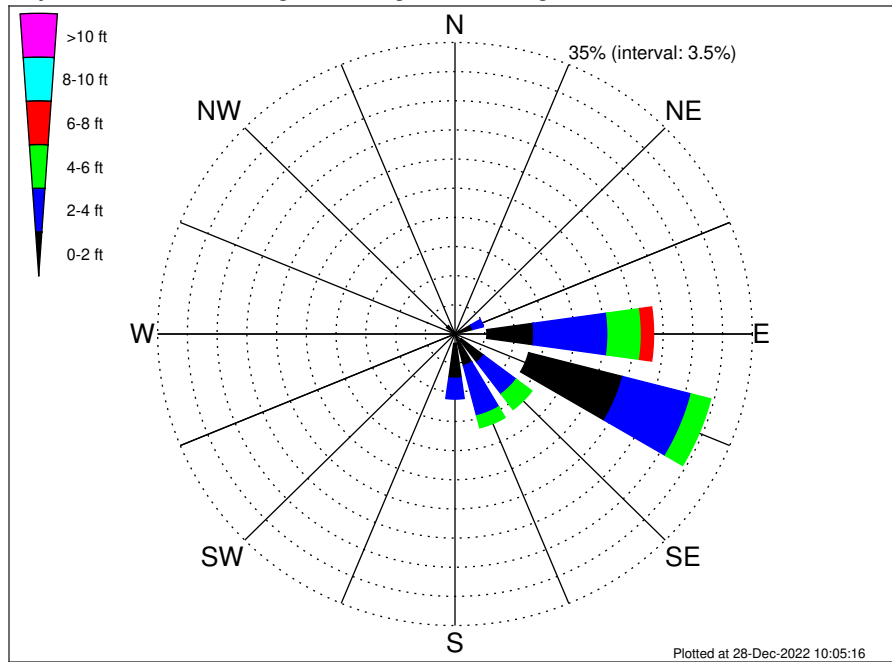
### Swell: 86.75%



November Wind Speed PDF: 1979 - 2015



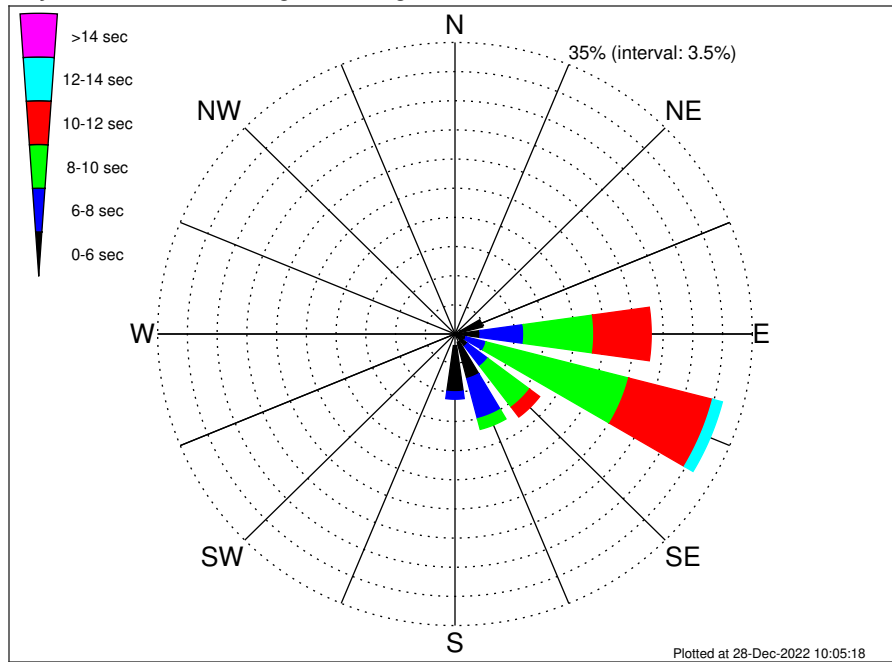
VNE 544 ECR2 Asbury Park NJ Shore Landing Climatological WaveHeight Rose for November: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.12	0.17	0.13	0.56	3.76	8.95	0.91	0.27	1.13	0.09	0.12	0.19	0.49	0.38	0.34	0.13	17.72
1 - 2 ft	0.53	0.54	0.43	1.60	5.52	11.44	3.33	3.65	4.19	0.10	0.07	0.27	0.60	0.81	0.94	0.32	34.34
2 - 4 ft	0.06	0.05	0.13	1.30	8.74	8.34	4.79	6.23	2.50	0.01	•	0.02	0.16	0.13	0.23	0.14	32.82
4 - 6 ft	•	•	•	0.19	3.92	2.37	2.31	1.48	0.01	•	•	•	•	•	•	•	10.28
6 - 8 ft	•	•	•	•	1.43	0.81	0.74	0.27	•	•	•	•	•	•	•	•	3.25
8 - 10 ft	•	•	•	•	0.36	0.54	0.30	0.02	•	•	•	•	•	•	•	•	1.23
10 - 12 ft	•	•	•	•	0.07	0.12	0.08	•	•	•	•	•	•	•	•	•	0.27
12 - 14 ft	•	•	•	•	0.01	0.03	0.03	•	•	•	•	•	•	•	•	•	0.08
14 - 16 ft	•	•	•	•	•	•	0.01	•	•	•	•	•	•	•	•	•	0.01
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.71	0.76	0.68	3.63	23.81	32.60	12.51	11.92	7.83	0.21	0.19	0.47	1.25	1.32	1.50	0.59	100.00

VNE 544 ECR2 Asbury Park NJ Shore Landing Climatological WavePeriod Rose for November: 1979 - 2015

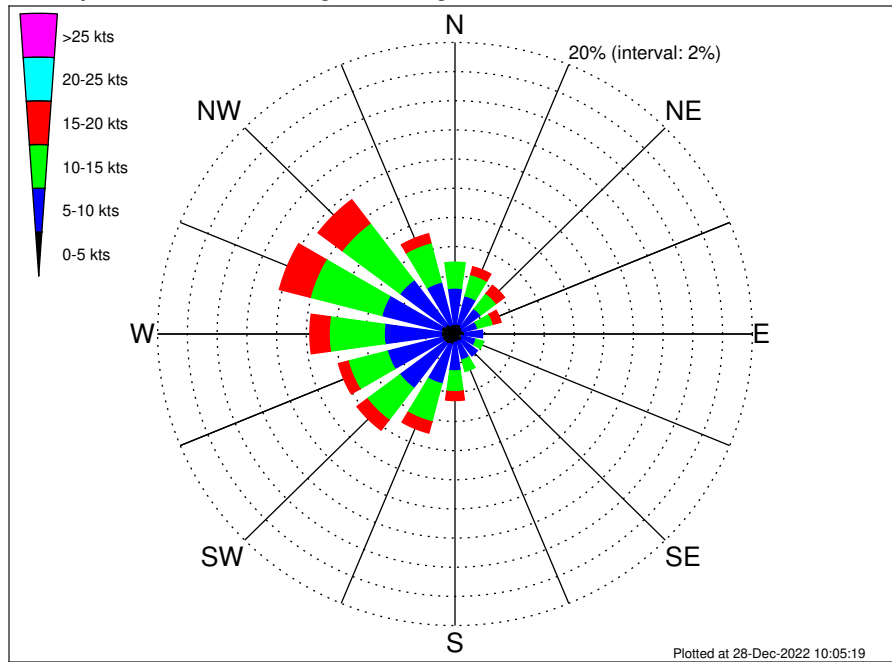


Joint Frequency Distribution Table

	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	•	0.03	0.06	0.13	0.30	0.23	0.21	0.01	0.99
2 - 4 sec	0.71	0.75	0.60	0.65	0.23	0.35	0.34	1.01	1.40	0.17	0.13	0.35	0.95	1.09	1.30	0.58	10.58
4 - 6 sec	•	•	0.08	2.73	2.72	0.99	1.52	4.51	5.54	•	•	•	•	•	•	•	18.09
6 - 8 sec	•	•	•	0.25	5.16	2.45	3.00	4.98	0.89	•	•	•	•	•	•	•	16.74
8 - 10 sec	•	•	•	•	8.24	17.33	6.15	1.32	•	•	•	•	•	•	•	•	33.03
10 - 12 sec	•	•	•	•	6.75	10.20	1.48	0.09	•	•	•	•	•	•	•	•	18.53
12 - 14 sec	•	•	•	•	0.69	1.19	0.03	•	•	•	•	•	•	•	•	•	1.92
14 - 16 sec	•	•	•	•	0.02	0.09	•	•	•	•	•	•	•	•	•	•	0.12
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.71	0.76	0.68	3.63	23.81	32.60	12.51	11.92	7.83	0.21	0.19	0.47	1.25	1.32	1.50	0.59	100.00



VNE 544 ECR2 Asbury Park NJ Shore Landing Climatological Wind Rose for November: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.01	0.01	0.02	•	0.02	•	0.01	0.01	0.03	0.01	0.01	0.02	0.01	0.02	0.03	•	0.24
0 - 5 kts	0.67	0.71	0.58	0.53	0.64	0.49	0.57	0.52	0.54	0.73	0.83	0.87	0.93	0.94	0.79	0.67	10.99
5 - 10 kts	2.48	1.99	1.56	1.04	1.20	0.97	1.31	1.31	1.95	2.79	3.79	3.81	3.83	4.13	3.81	3.01	38.97
10 - 15 kts	1.77	1.50	1.32	1.09	0.38	0.51	0.50	0.82	1.42	2.69	2.75	2.73	3.70	4.97	4.88	2.79	33.83
15 - 20 kts	0.46	0.56	0.69	0.54	0.28	0.28	0.36	0.38	0.61	0.80	0.87	0.67	1.30	2.14	2.02	0.64	12.60
20 - 25 kts	0.16	0.21	0.44	0.15	0.08	0.06	0.06	0.23	0.20	0.14	0.07	0.06	0.29	0.47	0.32	0.03	2.97
25 - 30 kts	0.01	0.01	0.07	0.02	0.02	0.01	0.02	0.05	0.03	0.01	•	0.01	0.07	0.01	•	•	0.36
30 - 35 kts	•	•	0.01	•	•	•	•	0.02	0.01	•	•	•	•	•	•	•	0.05
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	5.56	4.98	4.70	3.38	2.63	2.31	2.82	3.34	4.81	7.17	8.33	8.17	10.12	12.69	11.86	7.14	100.00