

VNE 544 ECR2 Asbury Park NJ Shore Landing - September

Latitude: 40.23 N Longitude: 73.97 W

Weather Days

Wave Height > 4.0 ft Mean: 3.4 days Range: 0.4 - 6.5 days p50:4 days p75:2 days p90:1 days

Wave Height > 5.0 ft Mean: 1.5 days Range: 0.0 - 3.4 days p50:2 days p75:0.5 days p90:0.5 days

Wave Height > 6.0 ft Mean: 0.8 days Range: 0.0 - 1.9 days p50:1 days p75:0.5 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 0.2 days Range: 0.0 - 0.5 days p50:0.5 days p75:0.5 days p90:0.5 days

Wind Speed > 25.0 knots Mean: 0.0 days Range: 0.0 - 0.2 days p50:0.5 days p75:0.5 days p90:0.5 days

Wind Speed > 30.0 knots Mean: 0.0 days Range: 0.0 - 0.1 days p50:0.5 days p75:0.5 days p90:0.5 days

Working Window Probability

Wave Height < 4.0 ft 3 days or longer: 77%
 5 days or longer: 44%
 7 days or longer: 34%

Wave Height < 5.0 ft 3 days or longer: 82%
 5 days or longer: 57%
 7 days or longer: 49%

Wave Height < 6.0 ft 3 days or longer: 89%
 5 days or longer: 70%
 7 days or longer: 61%

Waves

Mean Height: 2 - 4 ft

The wave heights will occasionally reach 8 - 10 ft, but rarely higher.

Mean Period: 8 - 10 sec

The wave periods will occasionally reach 14 - 16 sec, but rarely longer.

Principle Direction, from: ESE

WindSea/Swell: 4% / 96%

Winds

Mean Speed: 5 - 10 kts

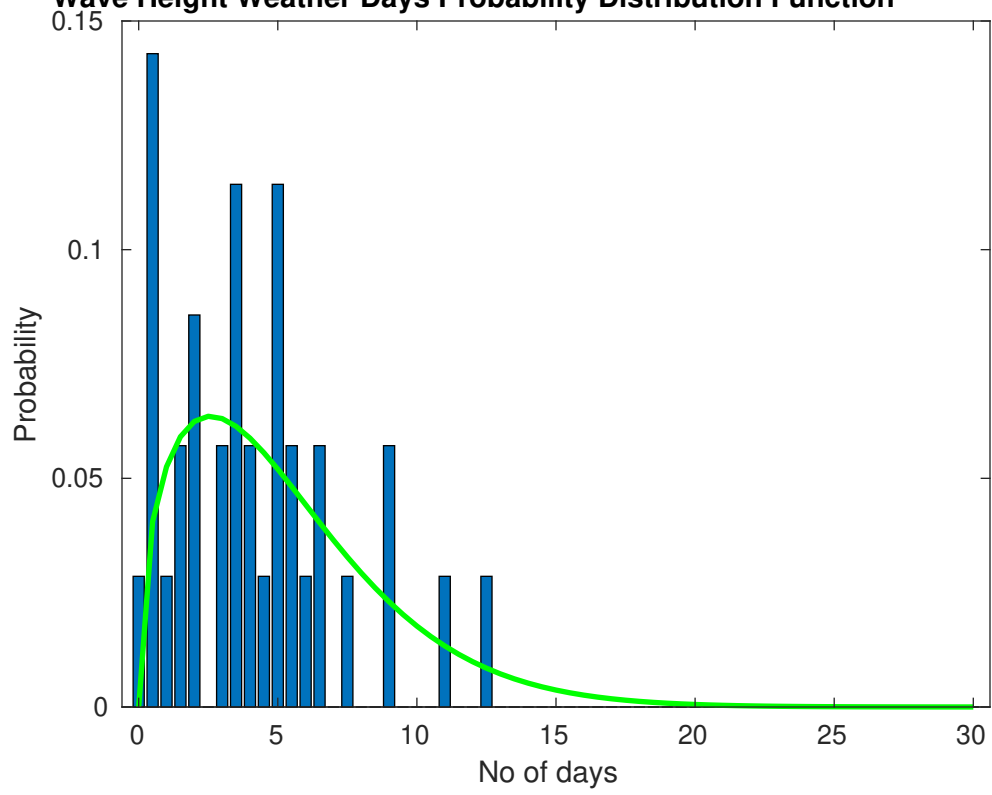
The winds will occasionally reach 20 - 25 kts, but rarely greater.

Principle Direction, from: SSW

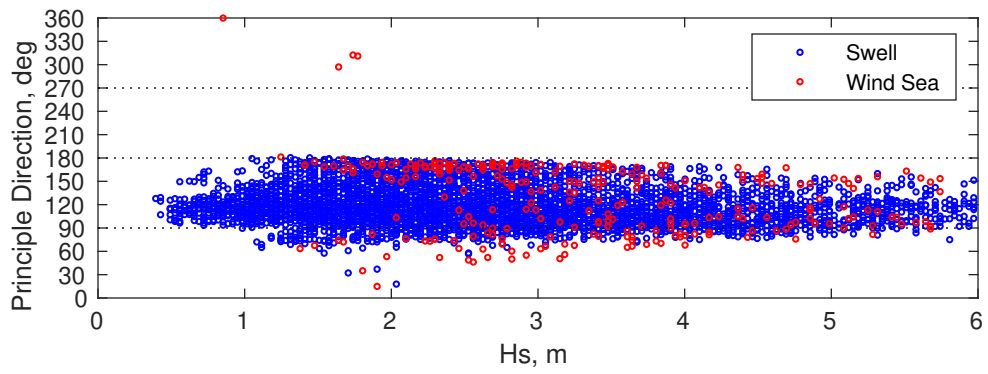
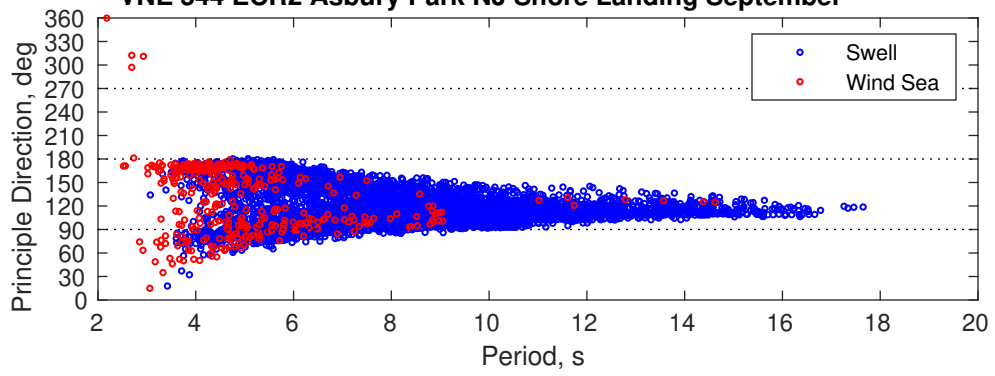
Severe Storms

Severe storms with gale force winds and extreme waves are not expected during this month.

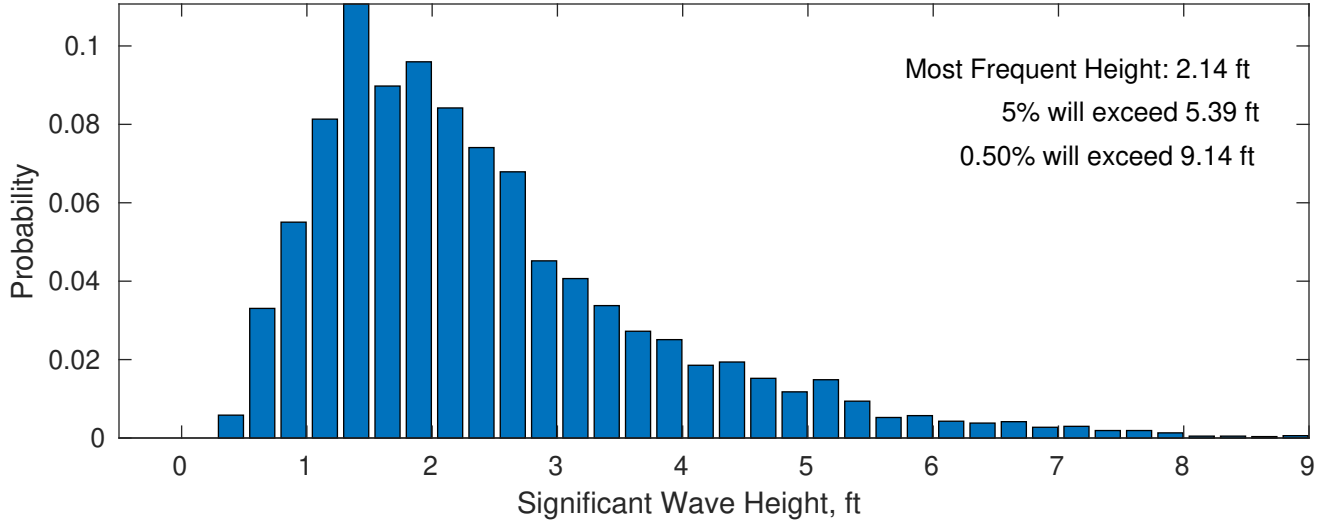
Wave Height Weather Days Probability Distribution Function



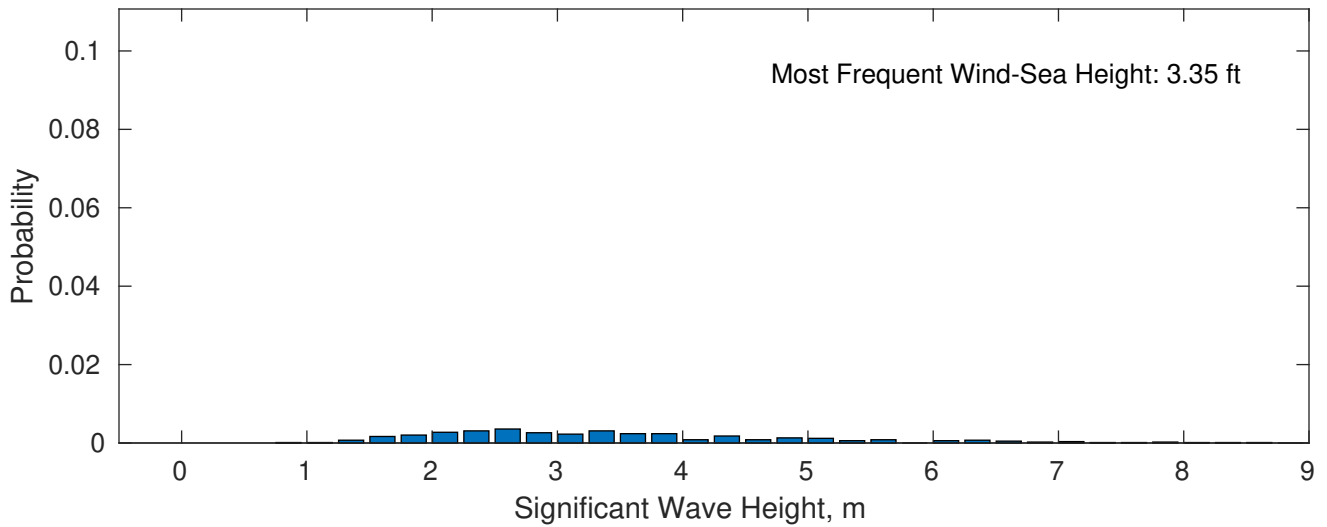
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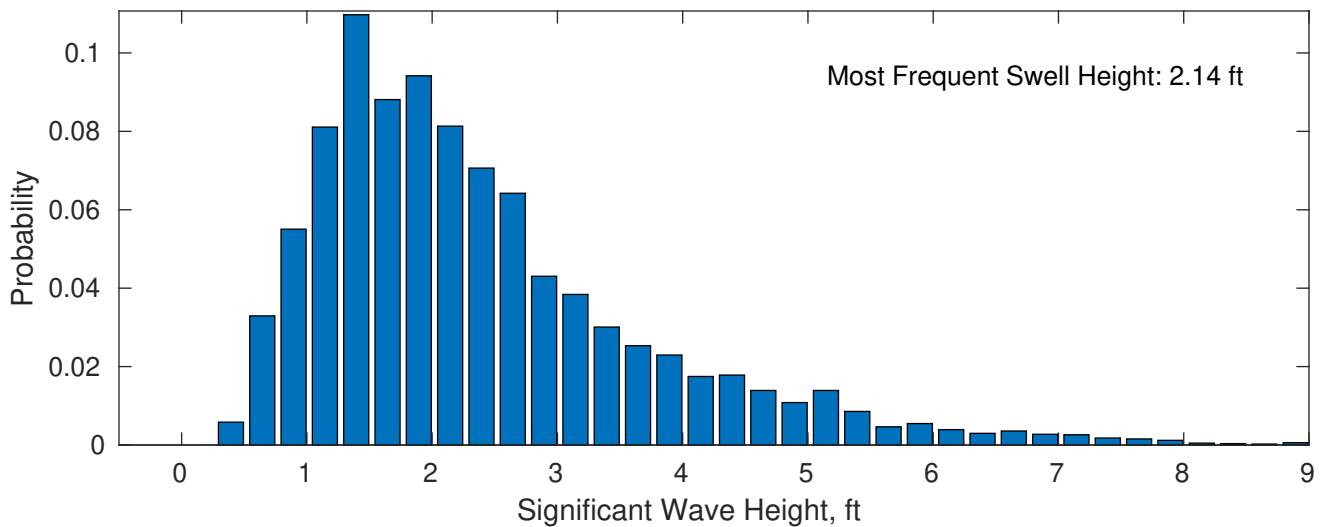
September Wave Height PDF: 1979 - 2015



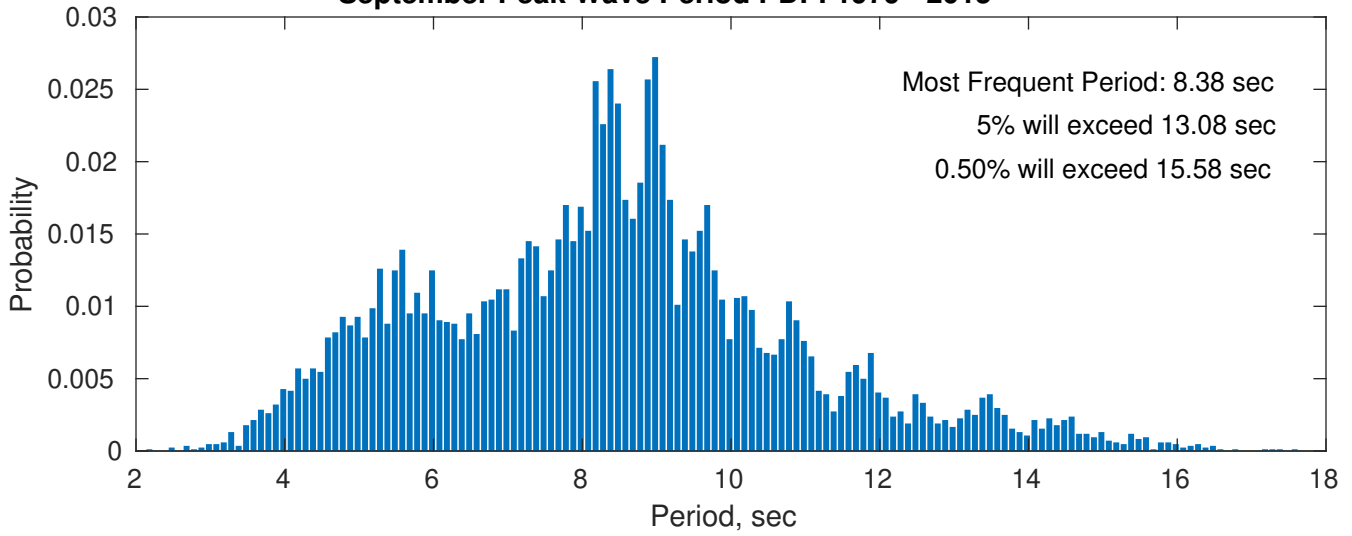
Wind-Sea: 4.02%



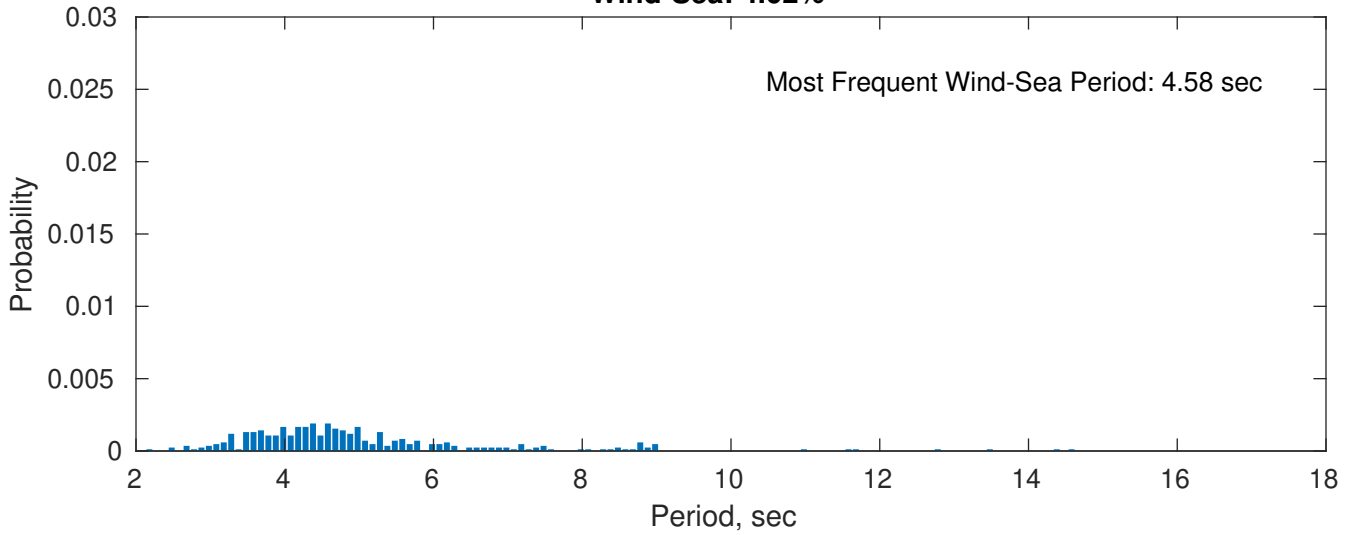
Swell: 95.98%



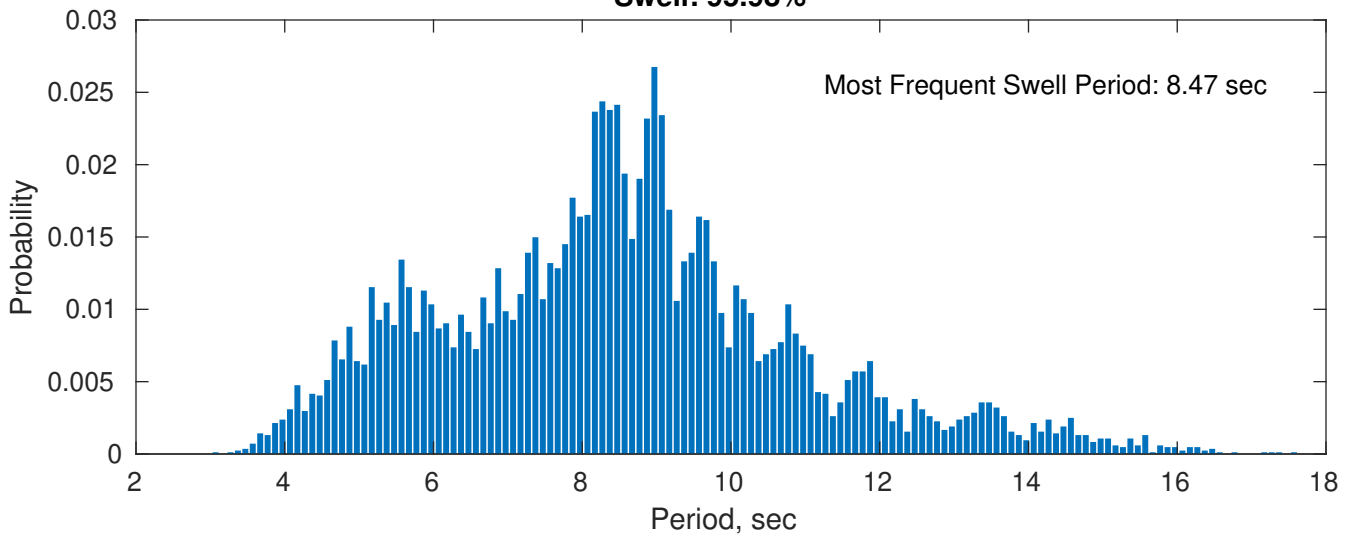
September Peak Wave Period PDF: 1979 - 2015



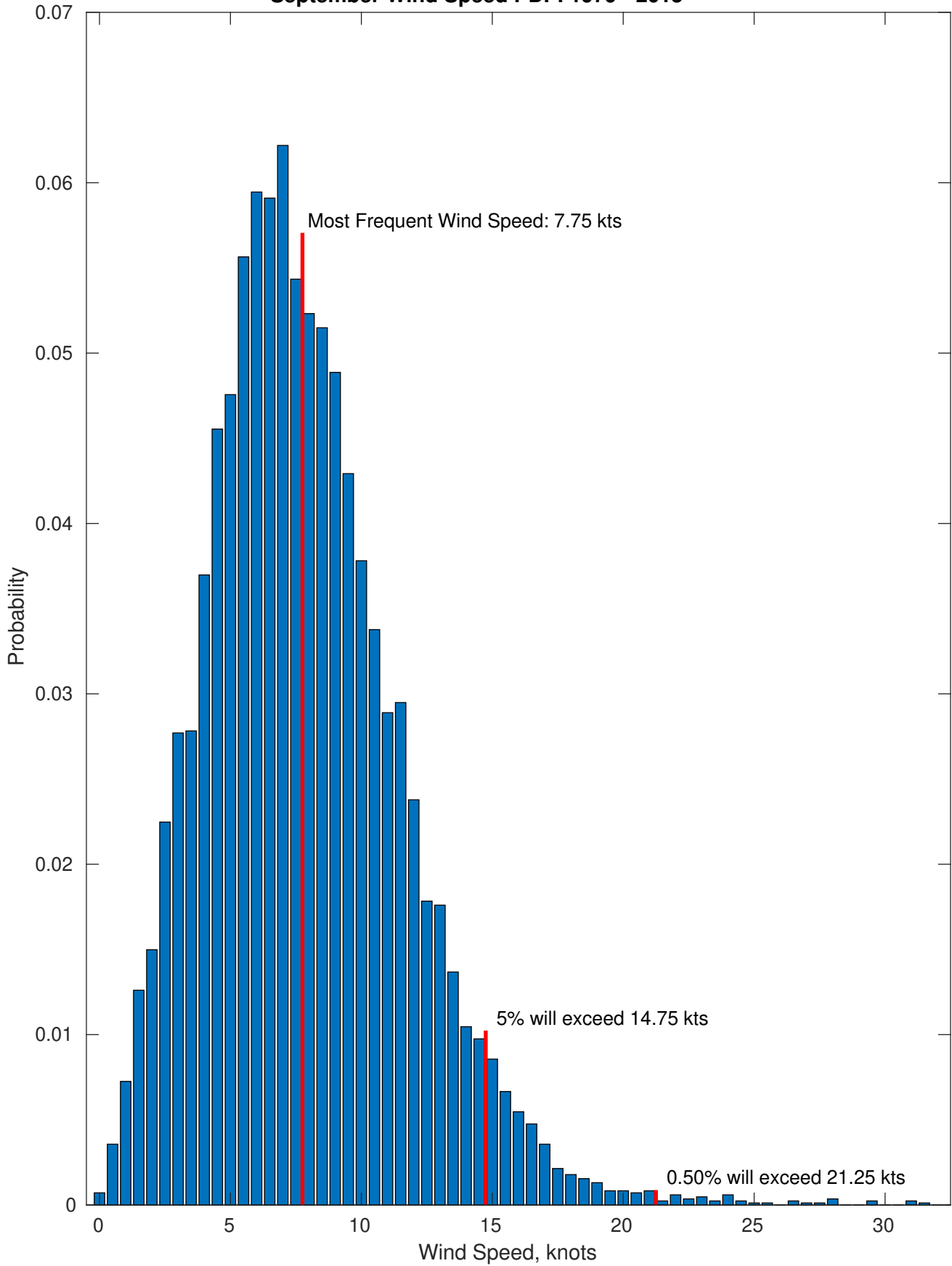
Wind-Sea: 4.02%



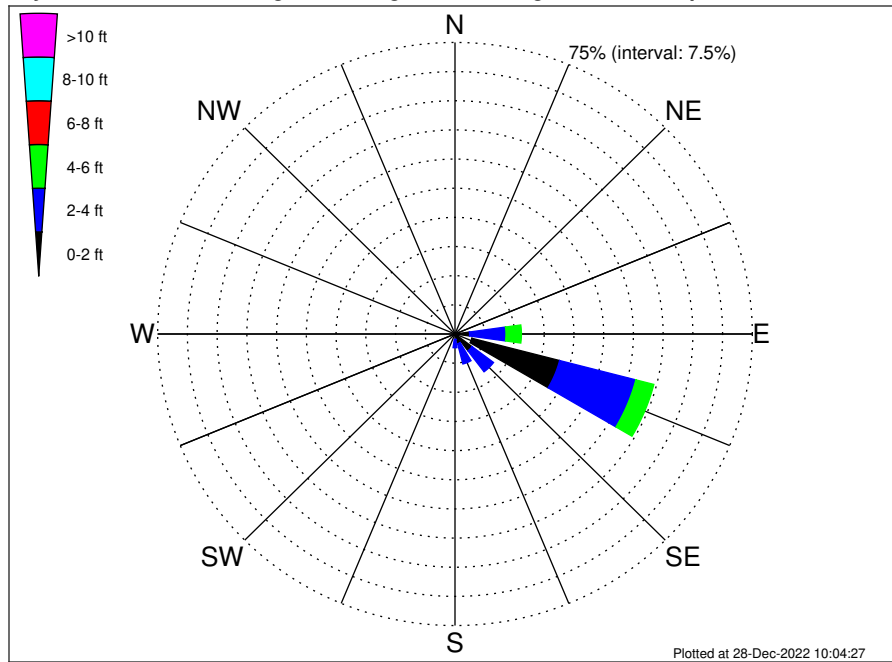
Swell: 95.98%



September Wind Speed PDF: 1979 - 2015



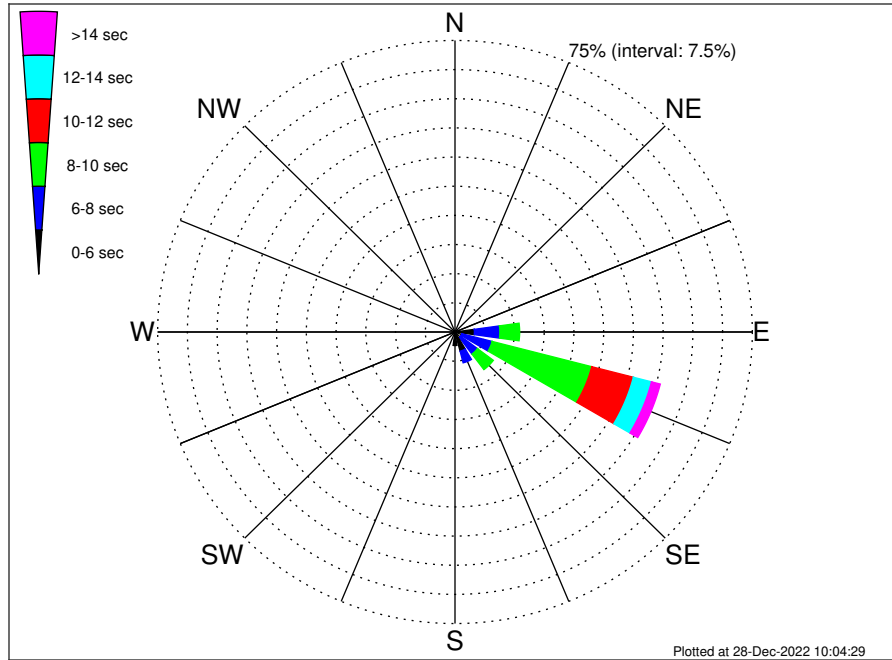
VNE 544 ECR2 Asbury Park NJ Shore Landing Climatological WaveHeight Rose for September: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.01	•	•	•	0.36	4.41	0.71	0.18	•	•	•	•	•	•	•	•	5.67
1 - 2 ft	•	0.02	0.04	0.70	3.33	22.85	4.68	2.40	1.40	•	•	•	•	0.01	0.02	•	35.47
2 - 4 ft	•	0.01	0.10	0.89	9.18	19.86	6.78	5.39	2.14	•	•	•	•	•	•	•	44.34
4 - 6 ft	•	•	•	0.12	3.89	4.68	1.84	0.63	0.01	•	•	•	•	•	•	•	11.18
6 - 8 ft	•	•	•	0.01	0.70	1.31	0.45	0.06	•	•	•	•	•	•	•	•	2.53
8 - 10 ft	•	•	•	•	0.12	0.29	0.11	0.01	•	•	•	•	•	•	•	•	0.52
10 - 12 ft	•	•	•	•	0.02	0.08	0.06	•	•	•	•	•	•	•	•	•	0.17
12 - 14 ft	•	•	•	•	•	0.01	0.06	•	•	•	•	•	•	•	•	•	0.07
14 - 16 ft	•	•	•	•	•	•	0.05	•	•	•	•	•	•	•	•	•	0.05
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.01	0.04	0.13	1.72	17.60	53.50	14.74	8.67	3.56	•	•	•	•	0.01	0.02	•	100.00

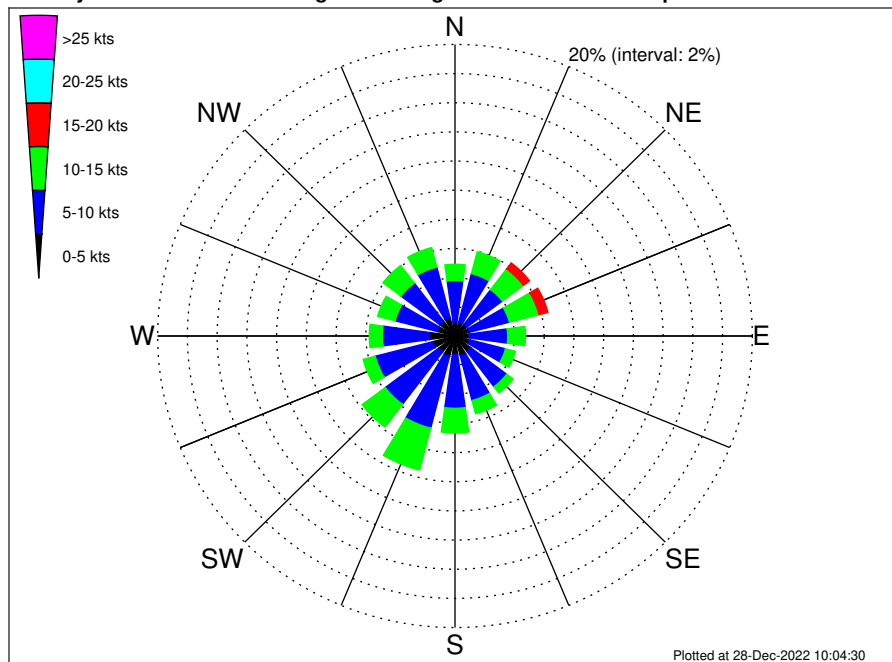
VNE 544 ECR2 Asbury Park NJ Shore Landing Climatological WavePeriod Rose for September: 1979 - 2015



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
2 - 4 sec	0.01	0.04	0.10	0.24	0.23	0.05	0.13	0.49	0.42	.	.	.	.	0.01	0.02	.	1.72
4 - 6 sec	.	.	0.04	1.43	4.67	1.74	1.64	4.61	3.07	.	.	.	.	.	.	.	17.19
6 - 8 sec	.	.	.	0.06	6.42	7.90	5.34	3.09	0.07	.	.	.	.	.	.	.	22.88
8 - 10 sec	4.99	25.96	5.01	0.48	.	.	.	.	.	.	.	.	36.43
10 - 12 sec	1.26	10.84	1.71	.	.	.	.	.	.	.	.	.	13.82
12 - 14 sec	0.02	4.72	0.57	.	.	.	.	.	.	.	.	.	5.32
14 - 16 sec	2.02	0.34	.	.	.	.	.	.	.	.	.	2.37
18 - 20 sec	0.27	.	.	.	.	.	.	.	.	.	.	0.27
22 - 24 sec
Total	0.01	0.04	0.13	1.72	17.60	53.50	14.74	8.67	3.56	.	.	.	.	0.01	0.02	.	100.00

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



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	0.04	0.04	0.02	0.04	•	0.02	0.02	0.05	0.01	0.02	•	0.05	0.06	0.02	0.04	0.43
0 - 5 kts	0.98	0.96	0.98	0.99	0.93	1.02	1.30	1.38	1.24	1.44	1.37	1.57	1.68	1.18	1.27	1.27	19.54
5 - 10 kts	2.83	3.42	2.97	2.77	2.58	2.49	3.03	3.16	3.67	5.08	4.48	3.97	3.16	2.93	3.26	3.58	53.39
10 - 15 kts	1.12	1.55	1.78	2.06	1.20	0.69	0.54	0.94	1.69	2.97	1.95	0.84	0.88	1.21	1.51	1.38	22.31
15 - 20 kts	0.13	0.27	0.51	0.62	0.27	0.06	0.05	0.19	0.36	0.25	0.15	0.10	0.19	0.24	0.21	0.06	3.66
20 - 25 kts	•	0.05	0.05	0.12	0.02	0.04	0.01	0.02	0.11	0.05	0.01	•	•	0.02	0.01	•	0.51
25 - 30 kts	•	•	0.01	0.05	0.05	•	•	•	0.01	•	•	•	0.01	•	•	•	0.13
30 - 35 kts	•	•	•	•	0.04	•	•	•	•	•	•	•	•	•	•	•	0.04
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	5.05	6.29	6.34	6.62	5.12	4.29	4.95	5.72	7.12	9.80	7.99	6.48	5.97	5.64	6.29	6.33	100.00