

Flower Gardens NMS - September

Weather Days

Wave Height > 6.0 ft Mean: 3.0 days Range: 0.5 - 5.5 days

Wave Height > 7.0 ft Mean: 1.8 days Range: 0.0 - 3.5 days

Wave Height > 8.0 ft Mean: 1.0 days Range: 0.0 - 2.3 days

Working Window Probability

Wave Height < 6.0 ft 3 days or longer: 75%

5 days or longer: 53%

7 days or longer: 41%

Wave Height < 7.0 ft 3 days or longer: 75%

5 days or longer: 61%

7 days or longer: 52%

Wave Height < 8.0 ft 3 days or longer: 82%

5 days or longer: 76%

7 days or longer: 63%

Waves

Mean Height: 2 - 4 ft

The wave heights will occasionally reach 10 - 12 ft, but rarely higher.

Mean Period: 4 - 6 sec

The wave periods will occasionally reach 12 - 14 sec, but rarely longer.

Principle Direction, from: ESE

WindSea/Swell: 29% / 71%

Winds

Mean Speed: 10 - 15 kts

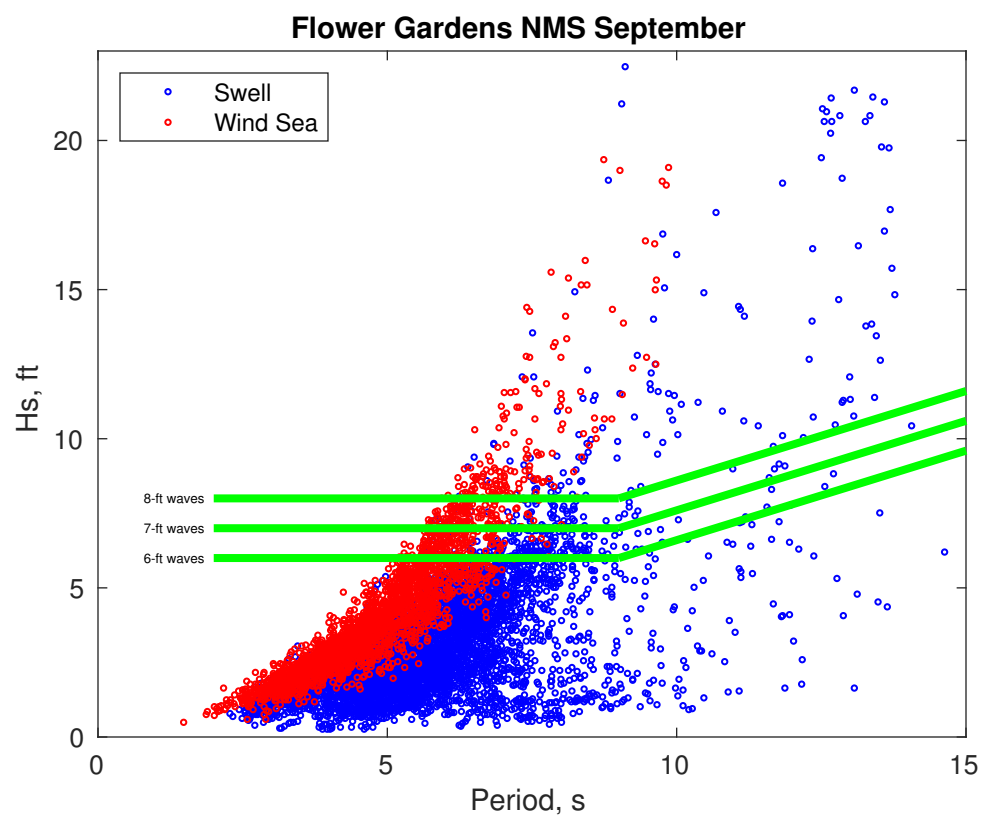
The winds will occasionally reach 25 - 30 kts, but rarely greater.

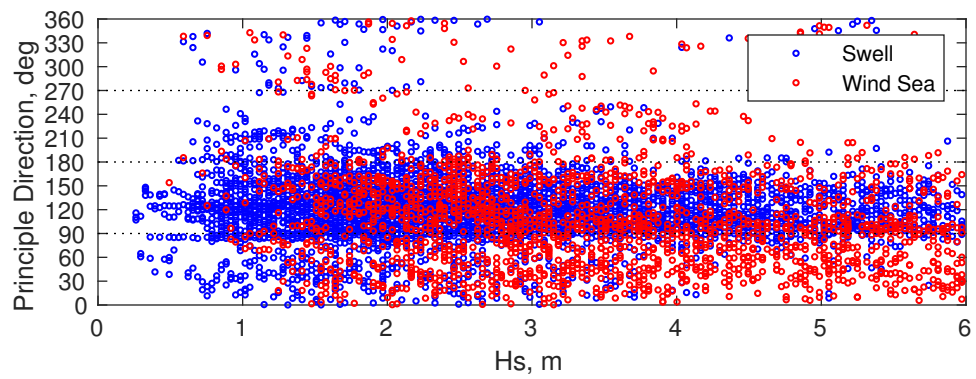
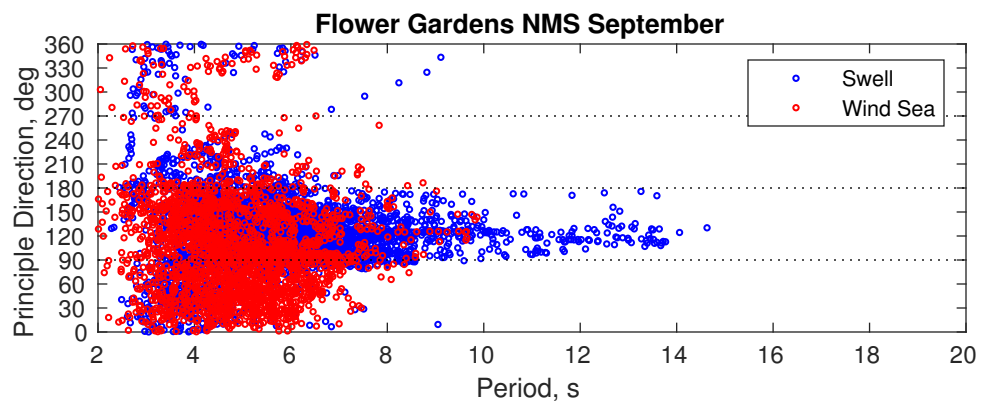
Principle Direction, from: ESE

Severe Storms

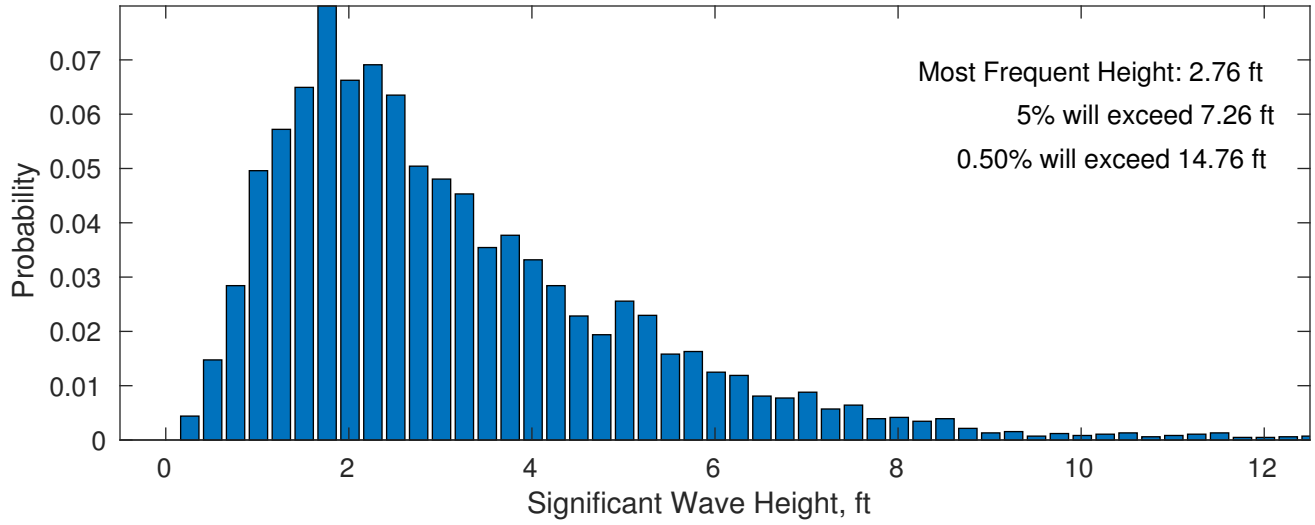
There is a 9 % chance of a storm with winds peaking above 34 kts.

There is a 11 % chance of a storm with waves peaking at 4m (13 ft) or greater.

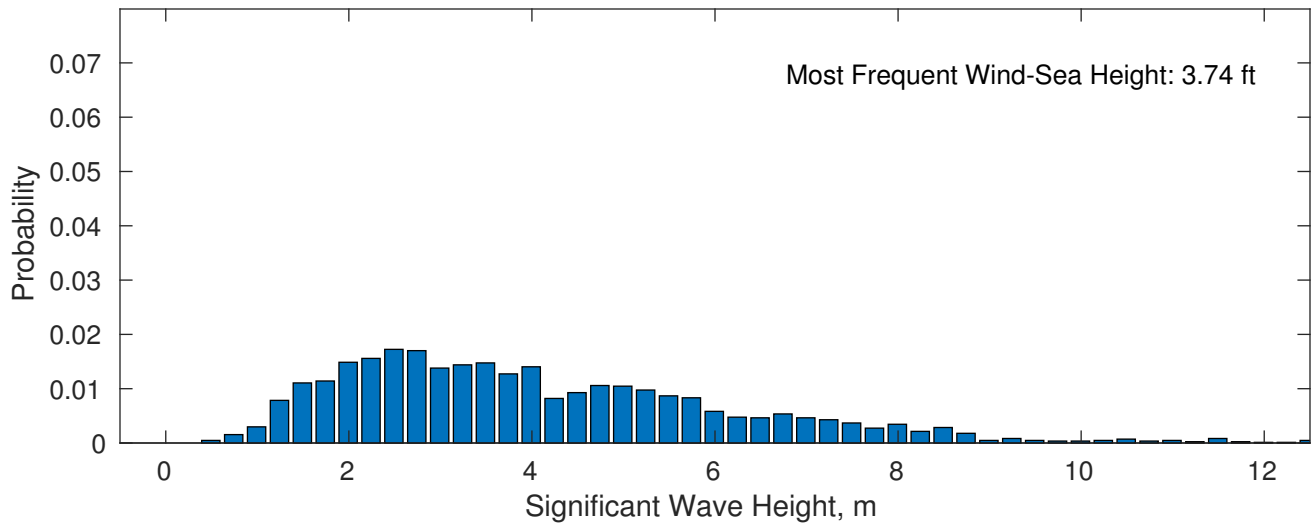




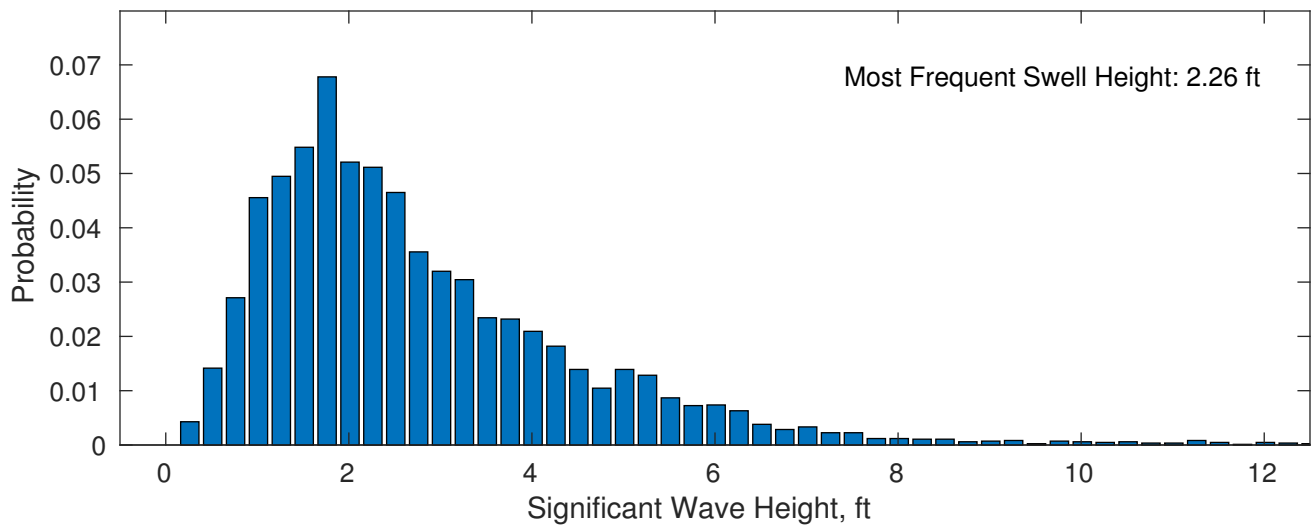
September Wave Height PDF: 1979 - 2015



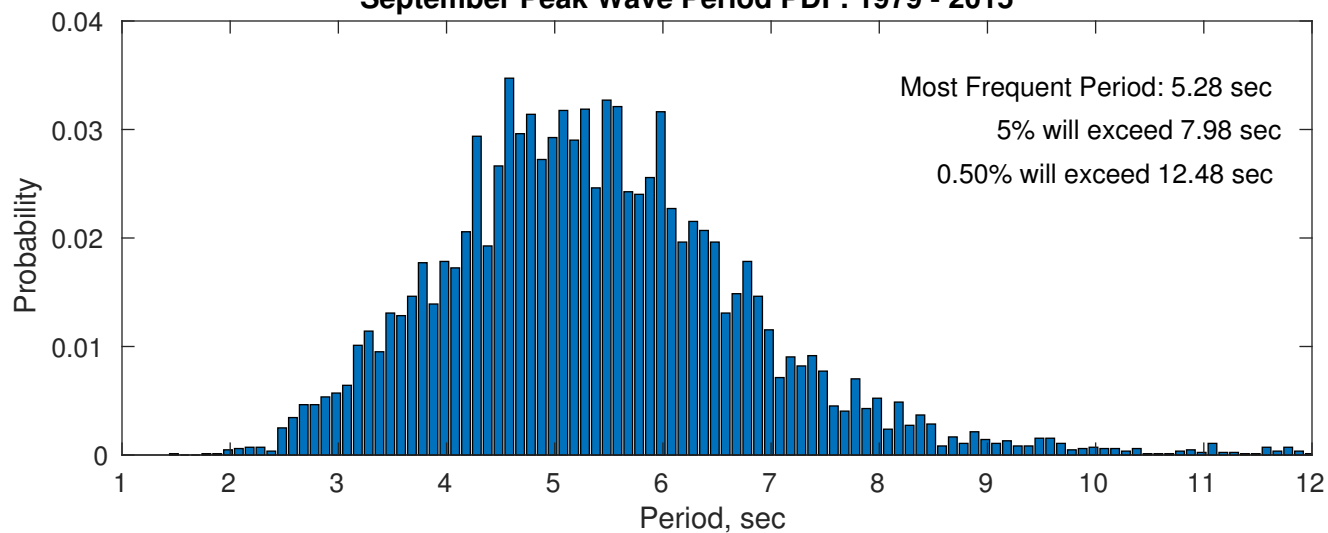
Wind-Sea: 29.04%



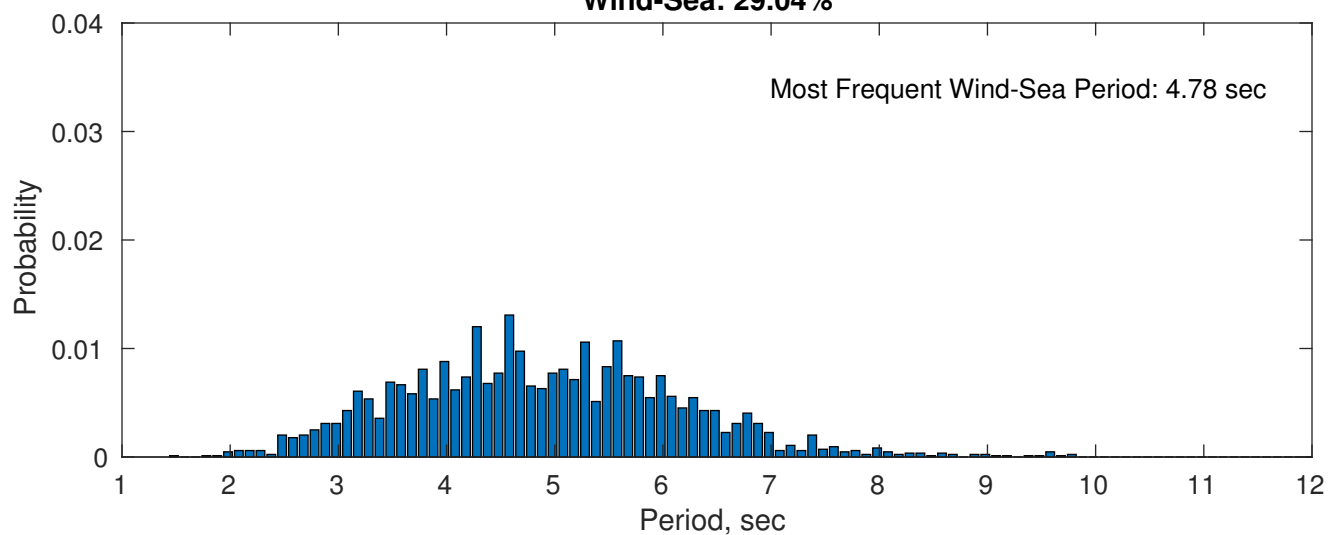
Swell: 70.96%



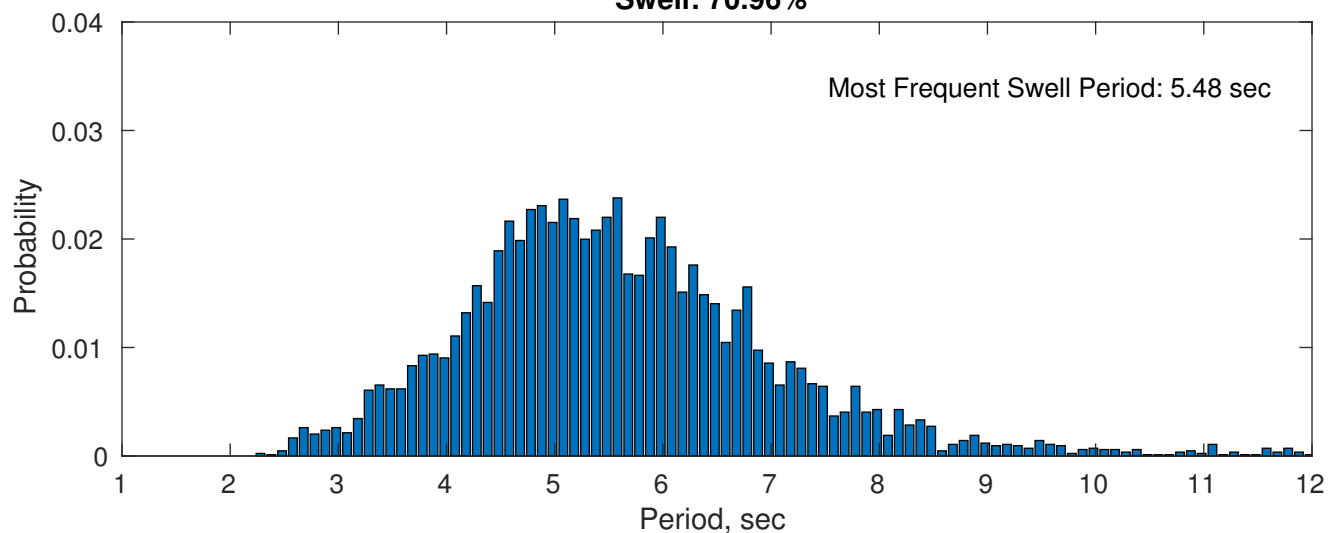
September Peak Wave Period PDF: 1979 - 2015



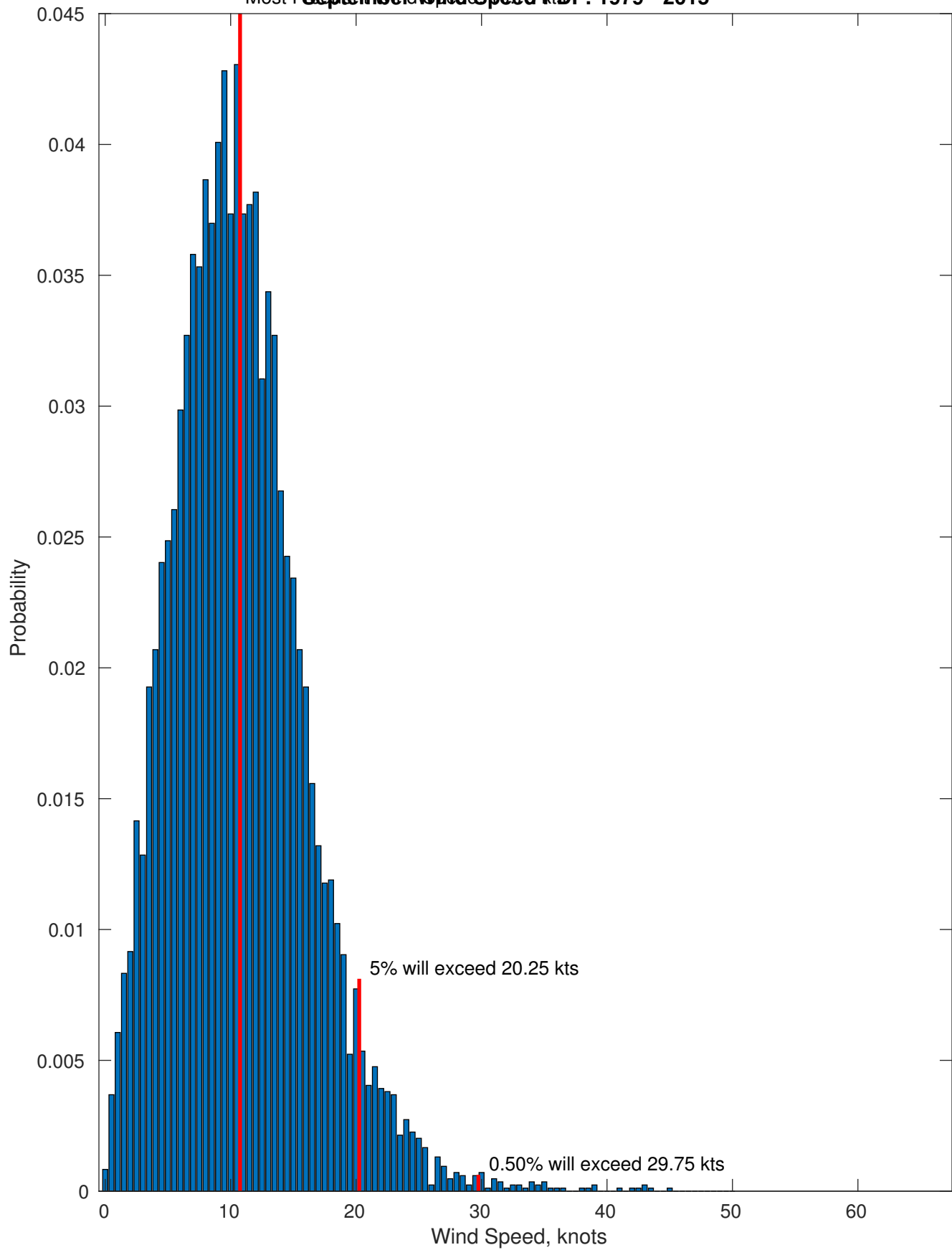
Wind-Sea: 29.04%



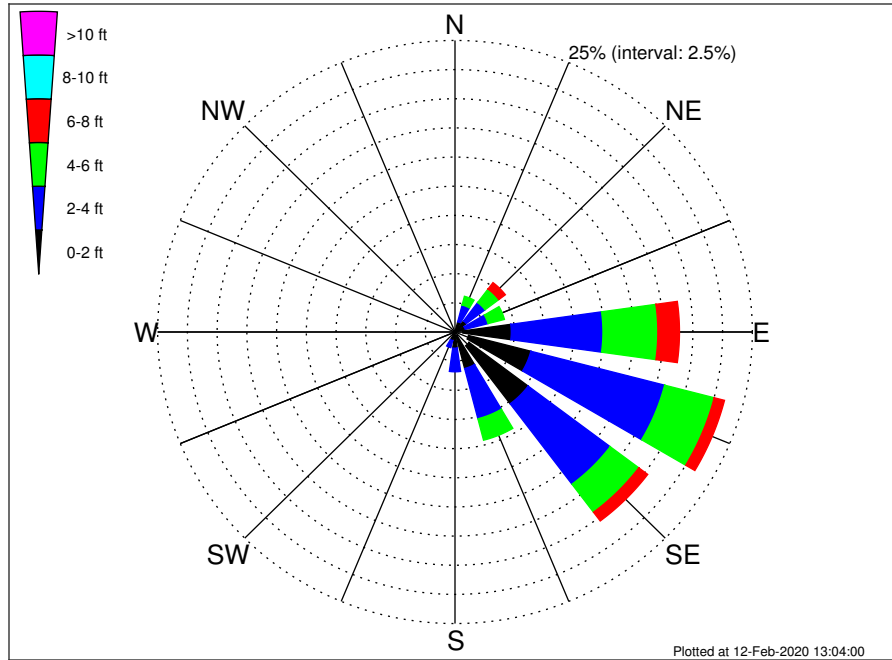
Swell: 70.96%



Most Frequent Wind Speed PDF: 1979 - 2015



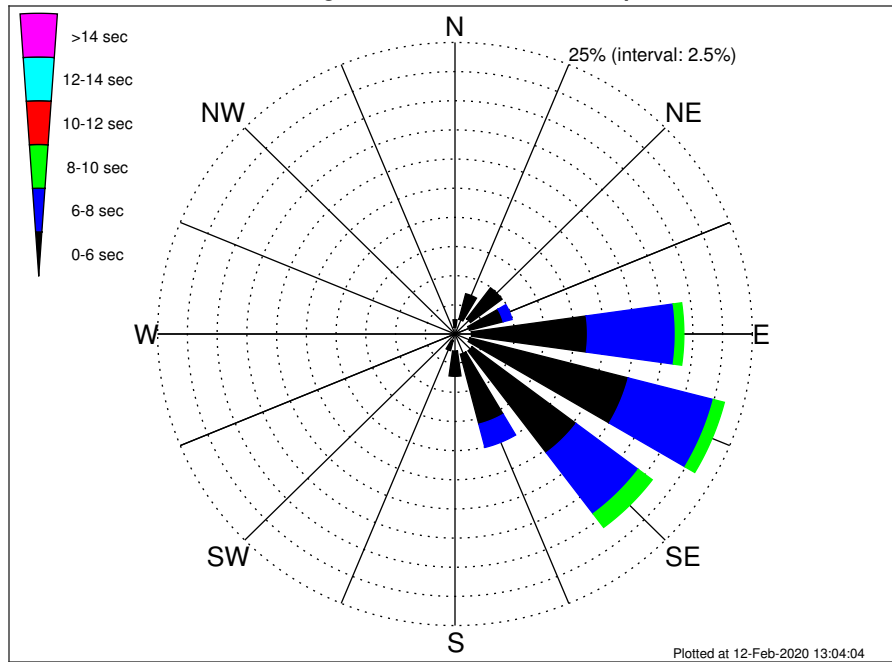
Flower Gardens NMS Climatological WaveHeight Rose for September: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	0.15	0.18	0.11	0.67	1.18	1.47	0.36	0.30	0.13	0.06	0.02	•	0.05	0.02	0.06	4.76
1 - 2 ft	0.30	0.76	1.01	0.78	4.07	5.41	6.23	2.88	1.09	0.63	0.31	0.05	0.24	0.19	0.10	0.13	24.18
2 - 4 ft	0.56	1.47	1.97	1.97	7.71	11.62	8.63	4.45	2.02	0.63	0.49	0.29	0.11	0.06	0.07	0.11	42.16
4 - 6 ft	0.24	0.77	1.45	1.43	4.61	4.31	3.01	1.90	0.52	0.13	0.06	0.05	•	•	0.04	0.14	18.66
6 - 8 ft	0.19	0.59	0.69	0.44	1.82	0.89	0.94	0.57	0.14	0.11	0.04	0.02	0.01	•	0.06	0.12	6.64
8 - 10 ft	0.10	0.04	0.23	0.20	0.34	0.29	0.43	0.08	0.10	0.02	•	•	0.02	•	•	0.05	1.89
10 - 12 ft	0.01	0.01	0.04	0.01	0.10	0.20	0.23	0.11	0.02	0.02	•	•	•	•	•	•	0.75
12 - 14 ft	•	0.02	•	0.01	0.02	0.07	0.10	0.04	•	0.04	•	•	•	0.01	•	•	0.31
14 - 16 ft	•	0.02	•	0.02	0.02	0.10	0.02	0.02	0.01	•	•	0.01	•	•	0.01	•	0.25
16 - 18 ft	•	•	•	•	•	0.04	0.06	0.01	•	•	•	•	•	•	•	•	0.11
> 18 ft	0.01	•	•	•	•	0.07	0.08	0.04	0.07	•	•	•	•	•	0.01	0.01	0.30
Total	1.40	3.85	5.57	4.98	19.36	24.17	21.21	10.45	4.28	1.71	0.95	0.44	0.38	0.31	0.31	0.62	100.00

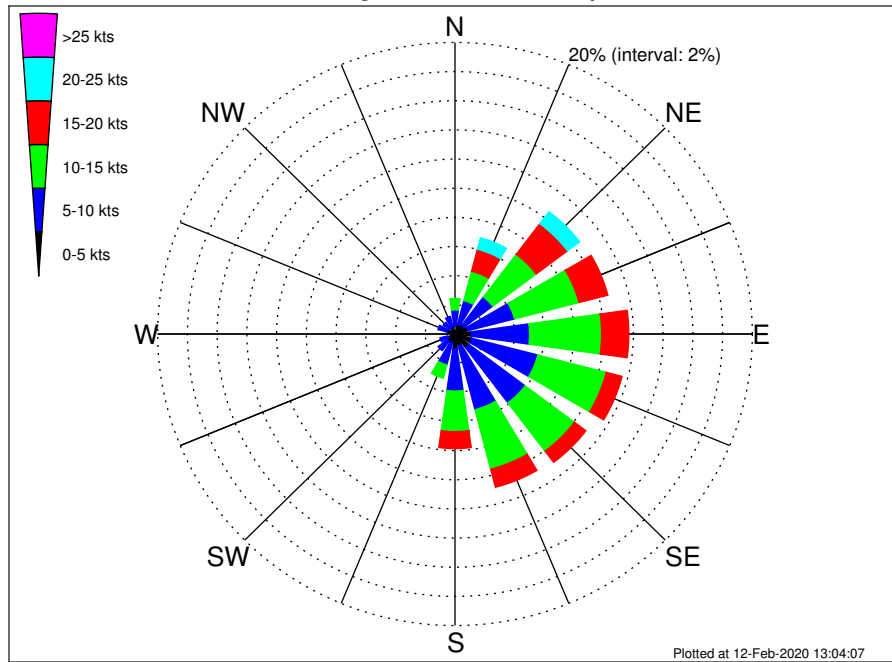
Flower Gardens NMS Climatological WavePeriod Rose for September: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	•	•	•	•	•	•	0.01	0.01	•	•	•	•	•	0.01	•	•	0.04
2 - 4 sec	0.57	1.30	1.63	1.25	1.39	1.28	1.80	1.77	1.46	0.61	0.32	0.10	0.30	0.27	0.18	0.24	14.46
4 - 6 sec	0.65	2.27	3.33	2.94	9.75	13.77	10.95	6.21	2.16	0.87	0.61	0.32	0.06	0.01	0.11	0.29	54.31
6 - 8 sec	0.17	0.29	0.61	0.77	7.39	7.39	6.54	2.06	0.46	0.24	0.02	0.02	0.02	0.01	•	0.08	26.07
8 - 10 sec	0.01	•	•	0.02	0.71	0.95	1.46	0.37	0.12	•	•	•	•	•	0.02	0.01	3.69
10 - 12 sec	•	•	•	•	0.12	0.40	0.23	0.01	0.04	•	•	•	•	•	•	•	0.80
12 - 14 sec	•	•	•	•	•	0.37	0.19	0.02	0.04	•	•	•	•	•	•	•	0.62
14 - 16 sec	•	•	•	•	•	•	0.02	•	•	•	•	•	•	•	•	•	0.02
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	1.40	3.85	5.57	4.98	19.36	24.17	21.21	10.45	4.28	1.71	0.95	0.44	0.38	0.31	0.31	0.62	100.00

Flower Gardens NMS 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	0.02	0.05	0.01	0.02	0.07	0.04	0.01	0.02	0.06	•	0.04	0.01	•	0.02	0.05	0.02	0.45
0 - 5 kts	0.49	0.63	0.73	0.88	1.03	1.13	1.18	0.82	0.95	0.65	0.59	0.50	0.37	0.57	0.39	0.54	11.45
5 - 10 kts	1.14	1.69	2.44	3.24	3.91	4.59	4.72	4.52	2.90	1.53	0.80	0.54	0.45	0.59	0.56	0.69	34.31
10 - 15 kts	0.78	2.08	3.66	4.47	4.84	4.76	4.15	4.21	2.78	0.94	0.38	0.23	0.29	0.17	0.24	0.30	34.28
15 - 20 kts	0.44	1.56	2.64	2.01	1.83	1.09	0.96	1.28	1.17	0.37	0.17	0.13	0.05	0.06	0.11	0.17	14.03
20 - 25 kts	0.25	0.81	1.02	0.34	0.25	0.33	0.19	0.23	0.21	0.13	0.04	0.02	0.02	0.06	0.07	0.06	4.04
25 - 30 kts	0.08	0.14	0.19	0.11	0.05	0.05	0.01	0.02	0.04	0.04	•	0.01	0.01	0.01	0.06	0.06	0.88
30 - 35 kts	0.08	0.06	0.01	0.01	•	0.01	0.02	0.04	0.02	0.01	0.01	0.01	•	•	•	•	0.30
35 - 40 kts	0.01	0.02	0.04	0.04	•	•	•	0.01	•	•	•	•	•	•	•	•	0.12
40 - 45 kts	0.01	0.02	•	•	•	•	•	•	•	•	0.01	0.01	0.01	•	•	•	0.07
45 - 50 kts	•	•	•	0.01	•	•	•	•	•	0.01	•	•	•	0.01	0.02	•	0.06
Total	3.32	7.06	10.74	11.13	11.99	12.00	11.25	11.16	8.14	3.69	2.03	1.46	1.20	1.50	1.50	1.83	100.00