

Flower Gardens NMS - January

Weather Days

Wave Height > 6.0 ft Mean: 8.4 days Range: 5.3 - 11.5 days

Wave Height > 7.0 ft Mean: 5.3 days Range: 2.9 - 7.7 days

Wave Height > 8.0 ft Mean: 3.0 days Range: 1.2 - 4.8 days

Working Window Probability

Wave Height < 6.0 ft 3 days or longer: 54%

5 days or longer: 18%

7 days or longer: 7%

Wave Height < 7.0 ft 3 days or longer: 61%

5 days or longer: 28%

7 days or longer: 17%

Wave Height < 8.0 ft 3 days or longer: 74%

5 days or longer: 42%

7 days or longer: 31%

Waves

Mean Height: 4 - 6 ft

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

Mean Period: 4 - 6 sec

The wave periods will occasionally reach 8 - 10 sec, but rarely longer.

Principle Direction, from: ESE

WindSea/Swell: 47% / 53%

Winds

Mean Speed: 10 - 15 kts

The winds will occasionally reach 30 - 35 kts, but rarely greater.

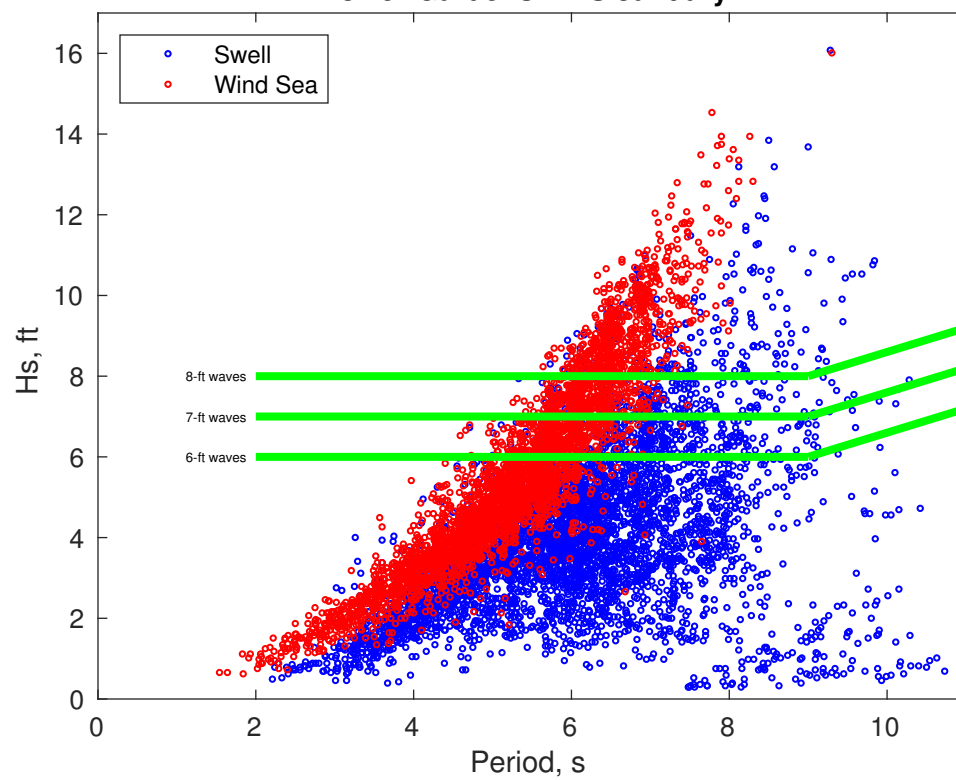
Principle Direction, from: NNE

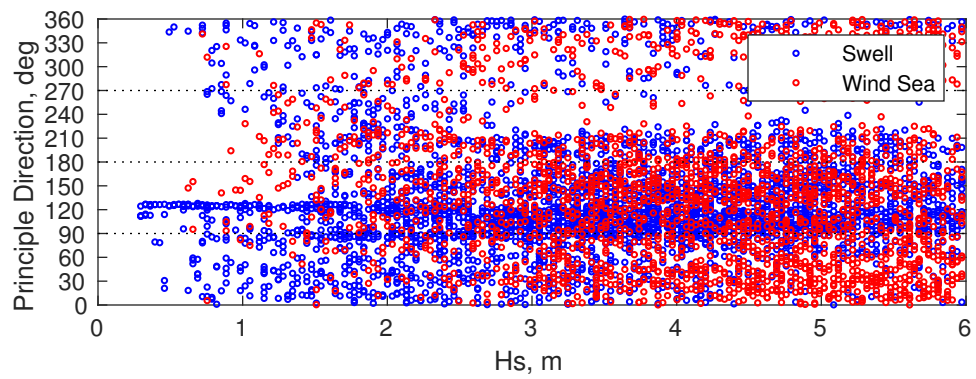
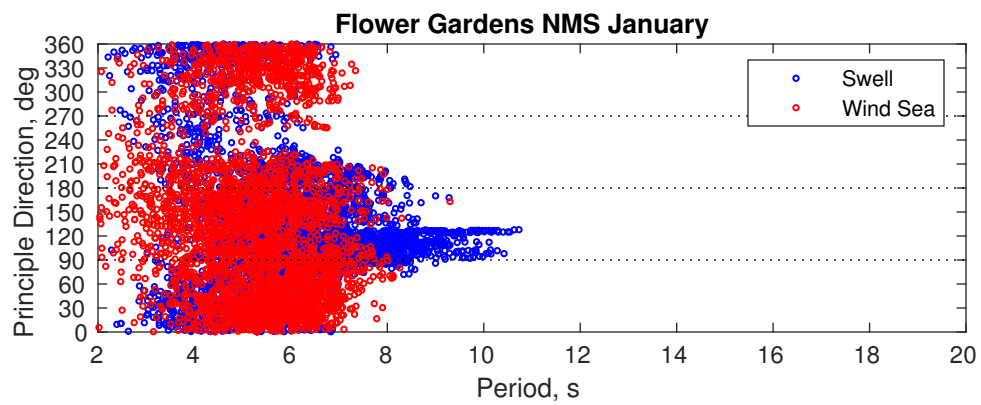
Severe Storms

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

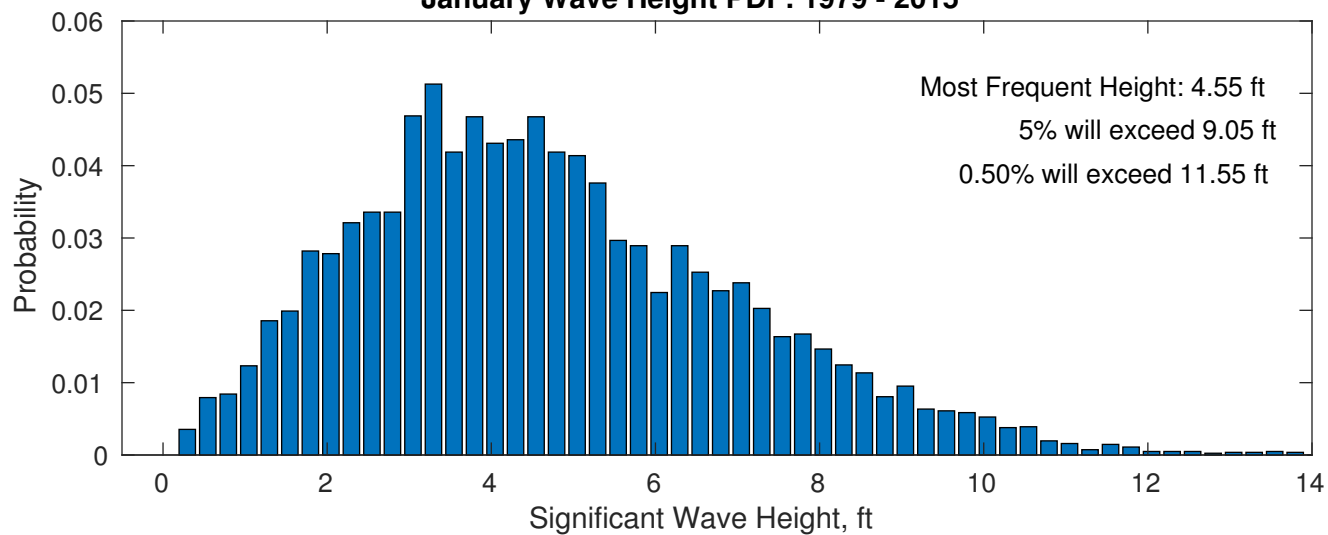
There is a 12 % chance of a storm with waves peaking at 4m (13 ft) or greater.

Flower Gardens NMS January

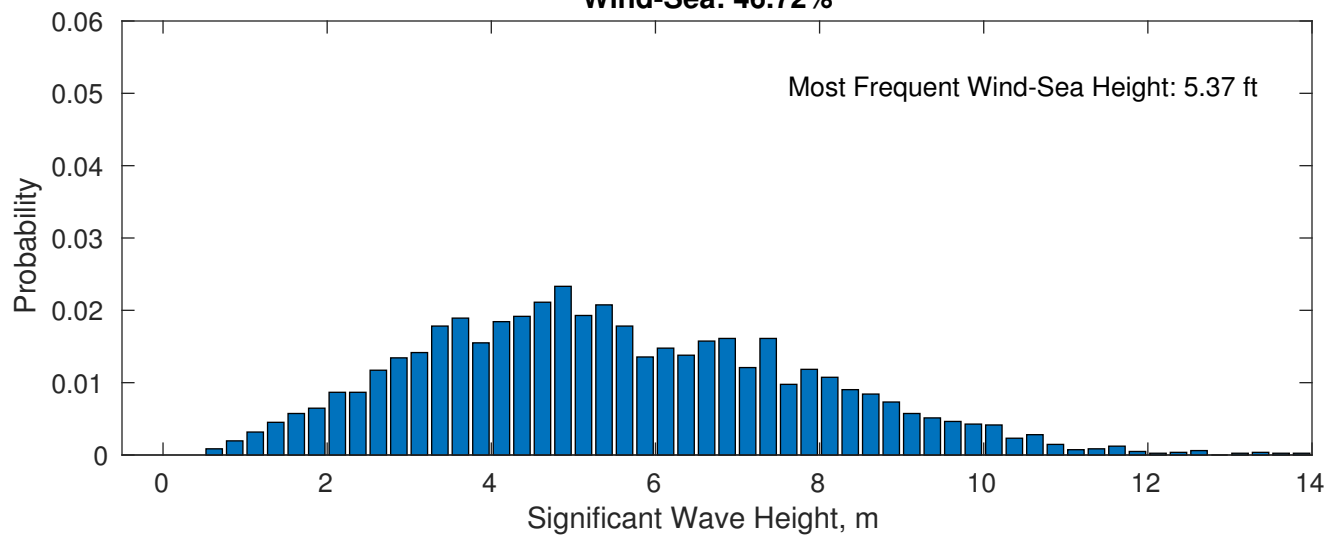




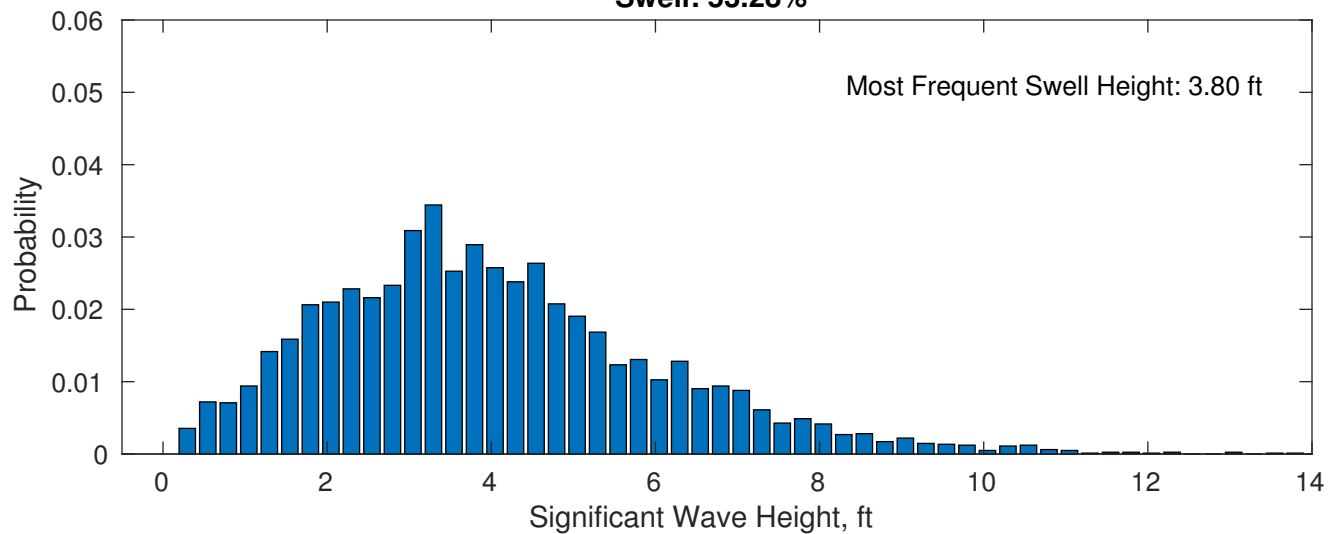
January Wave Height PDF: 1979 - 2015



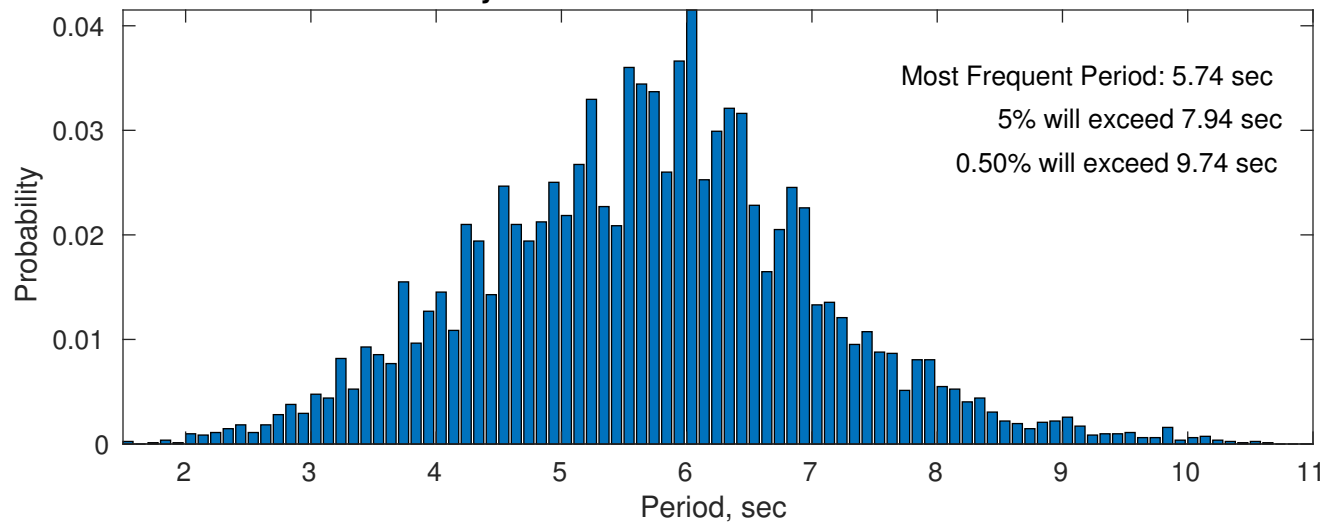
Wind-Sea: 46.72%



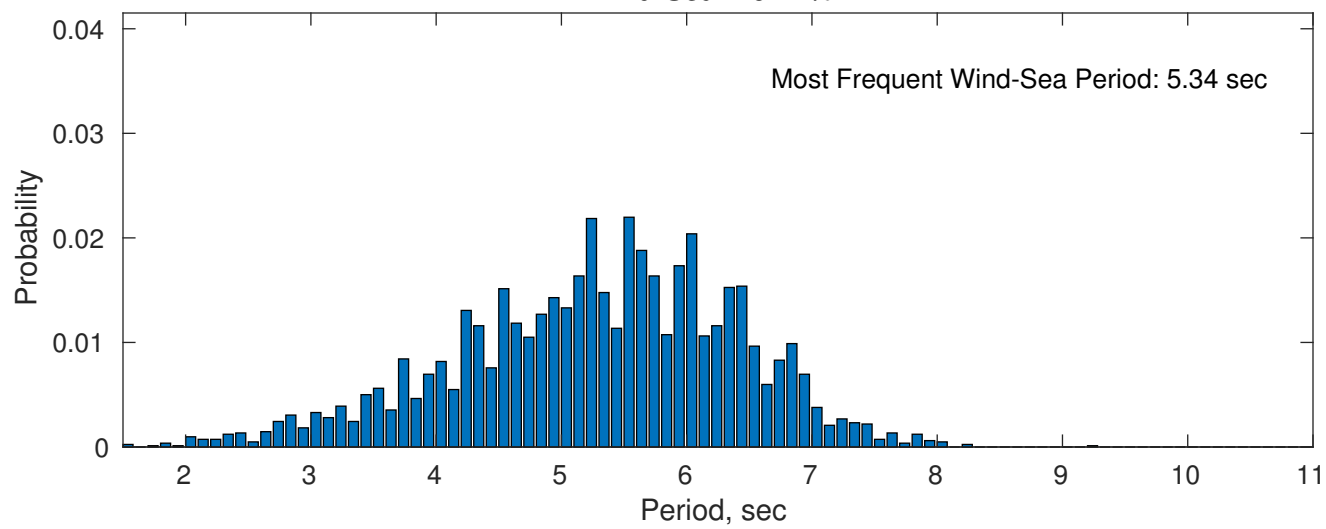
Swell: 53.28%



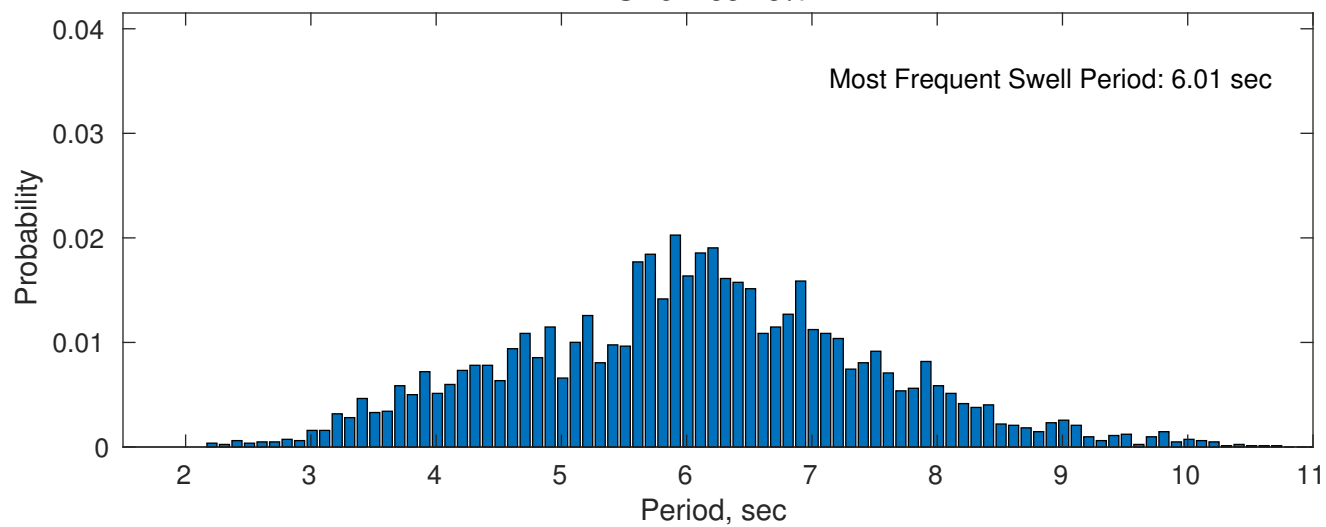
January Peak Wave Period PDF: 1979 - 2015



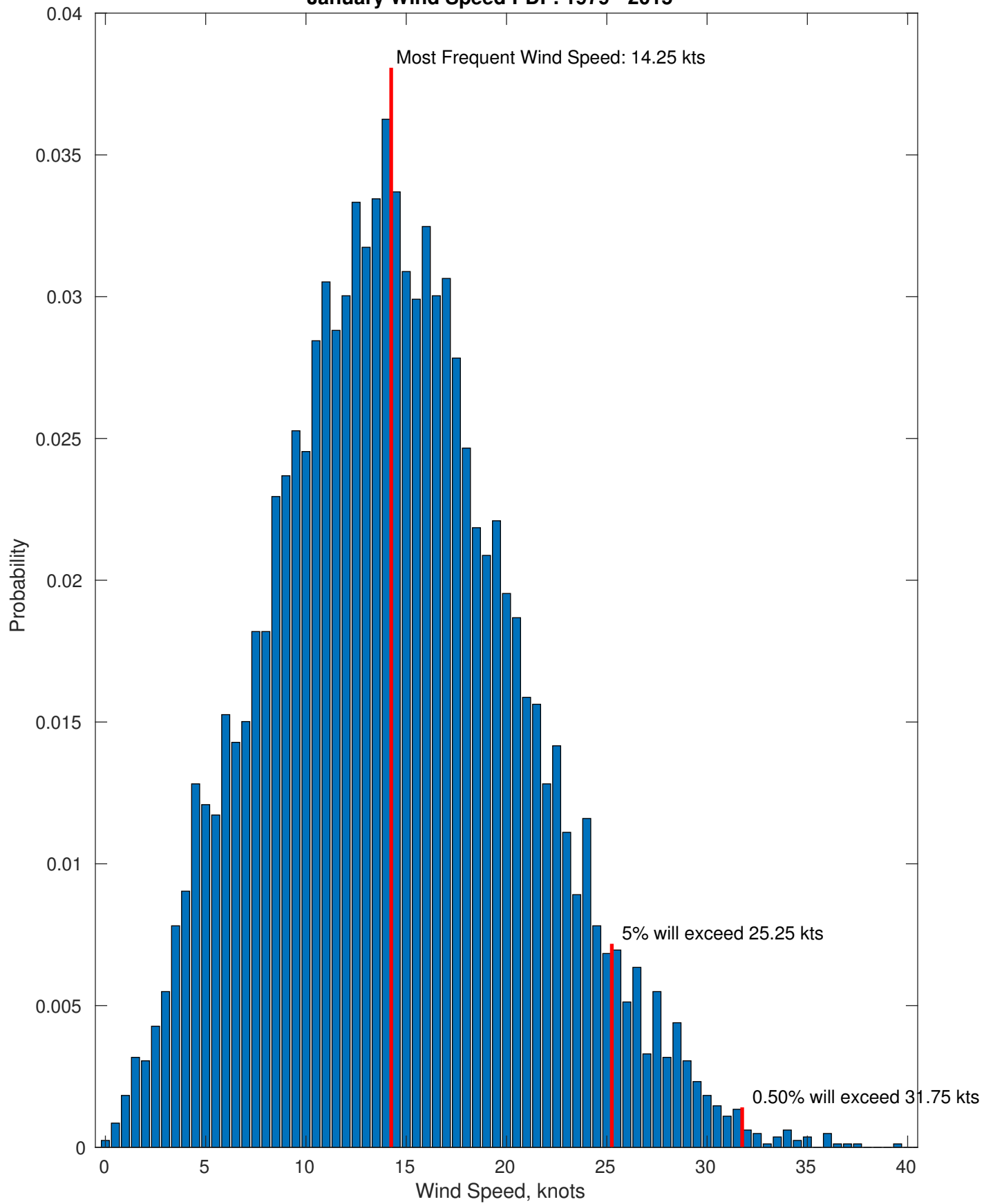
Wind-Sea: 46.72%



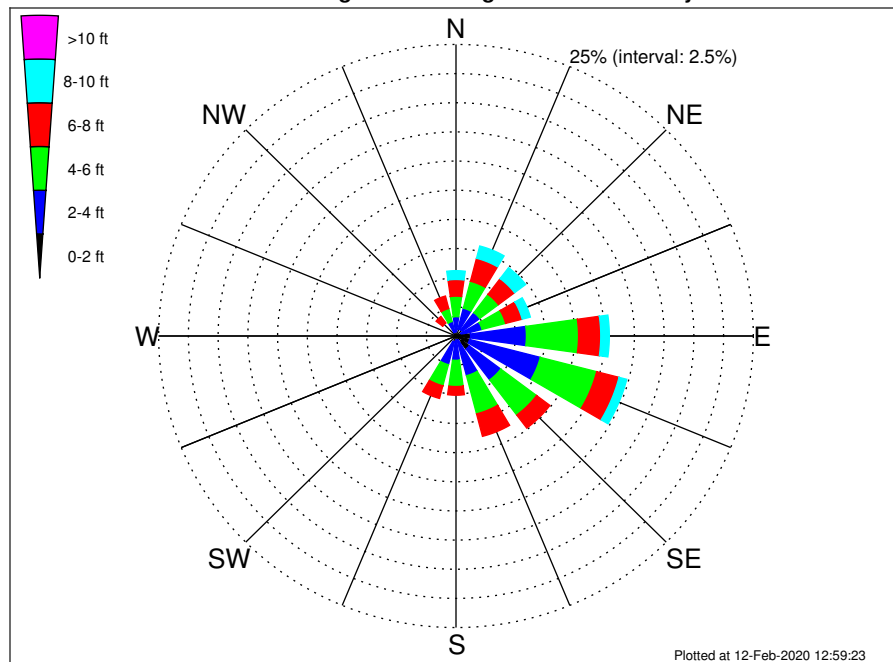
Swell: 53.28%



January Wind Speed PDF: 1979 - 2015



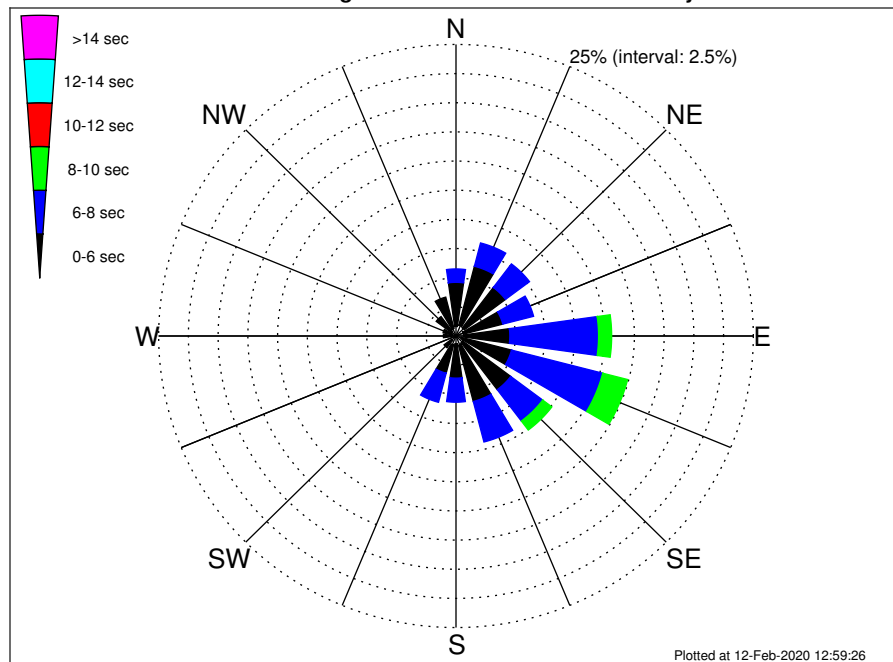
Flower Gardens NMS Climatological WaveHeight Rose for January: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.12	0.09	0.13	0.07	0.17	0.28	0.65	0.02	•	0.01	•	0.04	0.09	0.01	0.07	0.09	1.84
1 - 2 ft	0.24	0.54	0.52	0.40	1.05	0.90	0.76	0.38	0.35	0.50	0.48	0.33	0.29	0.11	0.18	0.26	7.30
2 - 4 ft	1.29	1.84	1.84	1.78	4.70	6.14	3.31	3.11	1.73	2.03	0.50	0.38	0.39	0.55	0.55	0.94	31.10
4 - 6 ft	1.76	2.38	1.97	2.05	4.38	4.90	3.77	3.38	2.25	1.87	0.51	0.12	0.23	0.28	0.60	1.15	31.60
6 - 8 ft	1.43	2.04	1.70	1.44	1.87	1.94	1.40	1.99	0.74	1.12	0.04	0.06	0.17	0.26	0.70	1.11	18.01
8 - 10 ft	0.76	1.09	1.17	0.71	0.72	0.67	0.29	0.44	0.52	0.28	0.01	•	•	0.27	0.39	0.43	7.75
10 - 12 ft	0.15	0.24	0.39	0.24	0.21	0.11	0.05	0.15	0.12	0.06	•	•	•	0.10	0.13	0.07	2.03
12 - 14 ft	•	0.01	0.01	0.12	0.04	•	0.04	•	0.09	•	•	•	•	•	0.01	0.02	0.34
14 - 16 ft	•	0.01	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.01
16 - 18 ft	•	•	•	•	•	•	•	0.02	•	•	•	•	•	•	•	•	0.02
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	5.75	8.24	7.74	6.82	13.14	14.94	10.27	9.50	5.81	5.87	1.54	0.93	1.17	1.57	2.64	4.07	100.00

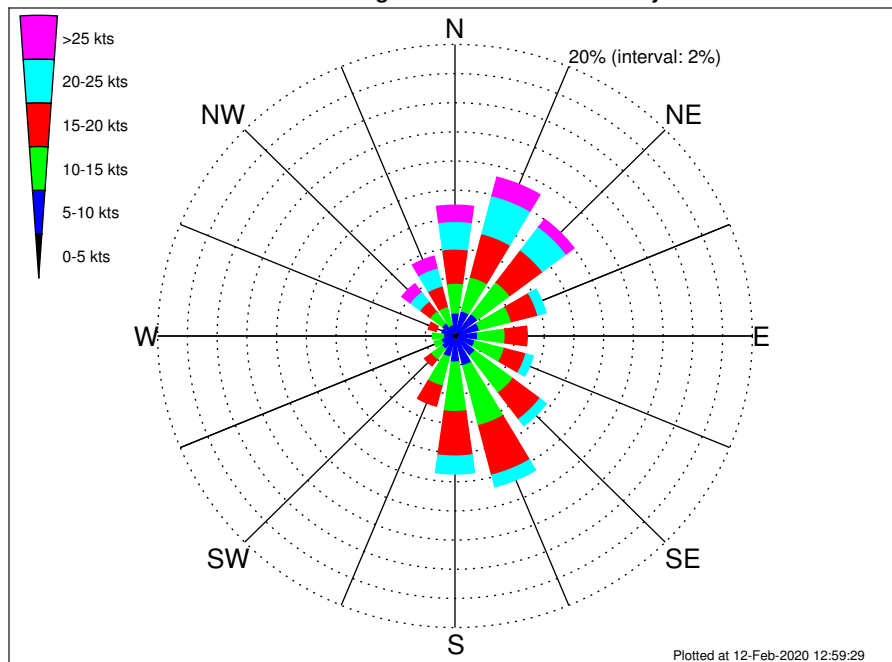
Flower Gardens NMS Climatological WavePeriod Rose for January: 1979 - 2015



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	.	.	0.04	.	0.01	.	.	.	.	0.01	.	0.07
2 - 4 sec	0.82	0.94	0.88	0.65	0.62	0.46	0.71	0.77	0.66	0.78	0.48	0.37	0.38	0.34	0.49	0.66	10.00
4 - 6 sec	3.78	5.24	4.33	3.42	3.89	4.36	5.05	4.99	2.95	2.50	0.78	0.49	0.68	0.78	1.59	2.78	47.64
6 - 8 sec	1.15	2.06	2.53	2.67	7.46	7.92	3.37	3.59	2.06	2.58	0.28	0.07	0.11	0.45	0.55	0.62	37.48
8 - 10 sec	.	.	.	0.09	1.10	2.16	0.96	0.11	0.13	.	.	.	.	.	.	.	4.55
10 - 12 sec	.	.	.	.	0.05	0.04	0.17	.	.	.	.	.	.	.	.	.	0.26
12 - 14 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14 - 16 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
18 - 20 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22 - 24 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	5.75	8.24	7.74	6.82	13.14	14.94	10.27	9.50	5.81	5.87	1.54	0.93	1.17	1.57	2.64	4.07	100.00

Flower Gardens NMS Climatological Wind Rose for January: 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	•	•	0.01	0.05	•	•	•	0.01	•	•	•	•	0.01	•	0.11
0 - 5 kts	0.34	0.29	0.40	0.34	0.38	0.22	0.37	0.35	0.31	0.31	0.20	0.20	0.21	0.34	0.29	0.21	4.75
5 - 10 kts	1.23	1.48	1.48	1.36	1.14	1.11	1.31	1.75	1.49	1.17	0.90	0.76	0.57	0.56	0.78	0.59	17.67
10 - 15 kts	2.04	2.41	2.73	2.22	1.86	2.05	3.20	4.25	3.39	2.05	0.93	0.50	0.73	0.40	1.03	1.29	31.08
15 - 20 kts	2.34	3.06	2.75	1.83	1.48	1.49	2.27	3.52	3.05	1.43	0.54	0.23	0.29	0.55	0.84	1.45	27.13
20 - 25 kts	1.89	2.70	2.00	0.57	0.32	0.51	0.55	0.82	1.22	0.33	0.13	0.02	0.12	0.29	0.84	1.28	13.61
25 - 30 kts	0.92	1.09	0.52	0.15	0.07	0.06	0.12	0.20	0.11	0.05	0.02	•	0.01	0.07	0.55	0.76	4.70
30 - 35 kts	0.18	0.20	0.11	0.05	0.01	•	0.01	•	0.06	•	•	•	•	0.02	0.13	0.04	0.82
35 - 40 kts	0.01	0.02	0.02	0.02	•	•	•	•	•	•	0.01	•	•	•	•	0.04	0.13
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	8.97	11.26	10.02	6.54	5.26	5.49	7.83	10.88	9.63	5.35	2.73	1.71	1.94	2.25	4.48	5.65	100.00