

Flower Gardens NMS - December

Weather Days

Wave Height > 6.0 ft Mean: 8.5 days Range: 5.5 - 11.6 days

Wave Height > 7.0 ft Mean: 5.3 days Range: 2.8 - 7.8 days

Wave Height > 8.0 ft Mean: 3.3 days Range: 1.4 - 5.2 days

Working Window Probability

Wave Height < 6.0 ft 3 days or longer: 49%

5 days or longer: 19%

7 days or longer: 8%

Wave Height < 7.0 ft 3 days or longer: 67%

5 days or longer: 30%

7 days or longer: 17%

Wave Height < 8.0 ft 3 days or longer: 76%

5 days or longer: 41%

7 days or longer: 28%

Waves

Mean Height: 4 - 6 ft

The wave heights will occasionally reach 12 - 14 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: 49% / 51%

Winds

Mean Speed: 10 - 15 kts

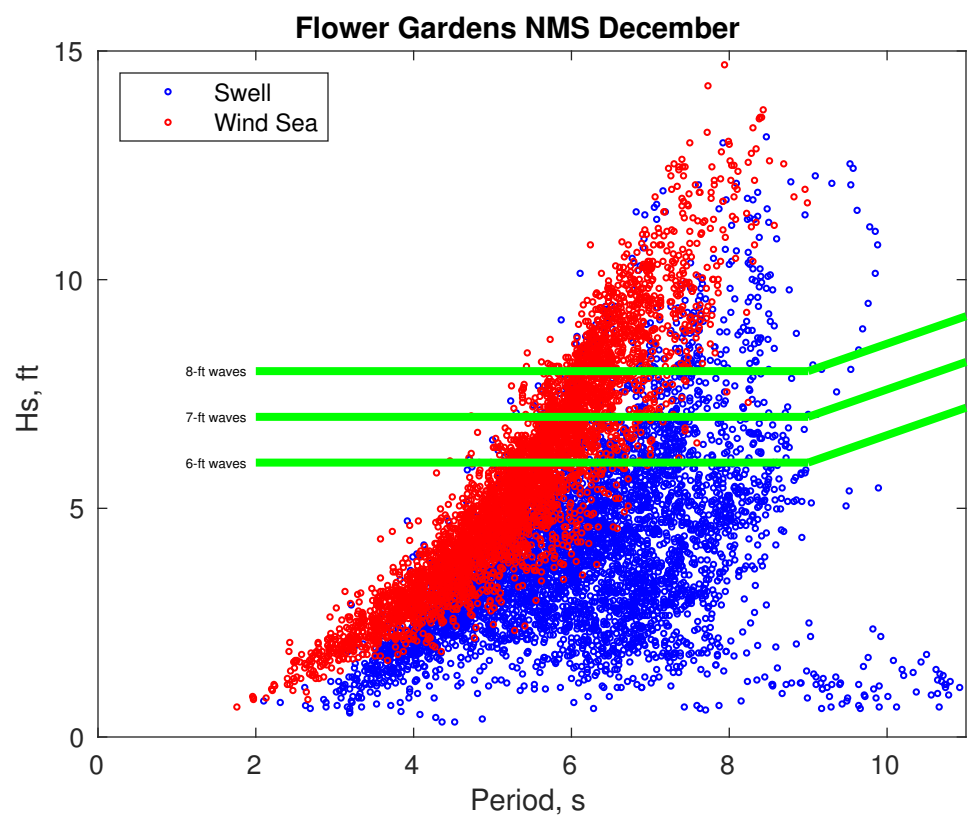
The winds will occasionally reach 30 - 35 kts, but rarely greater.

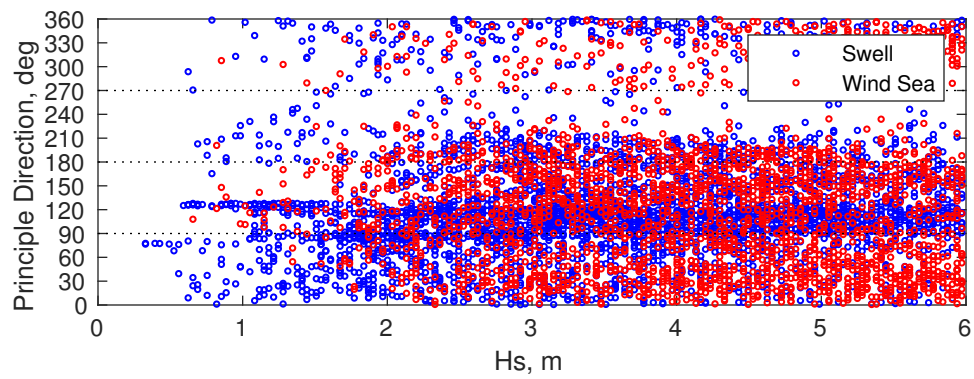
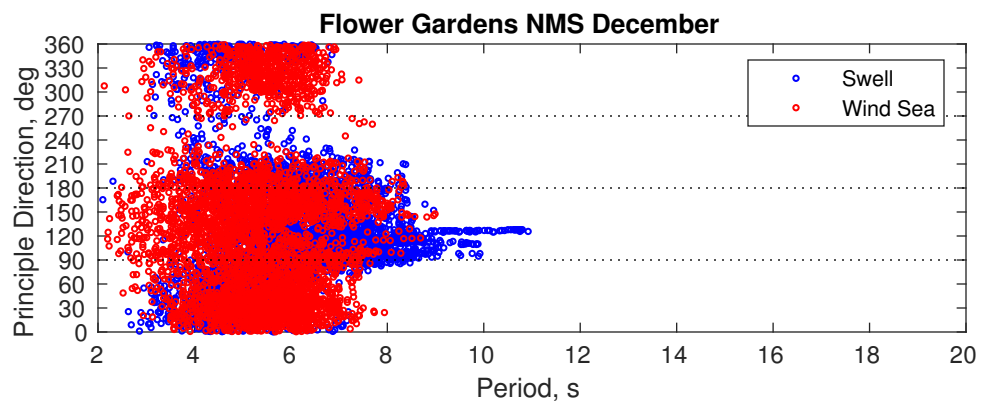
Principle Direction, from: SSE

Severe Storms

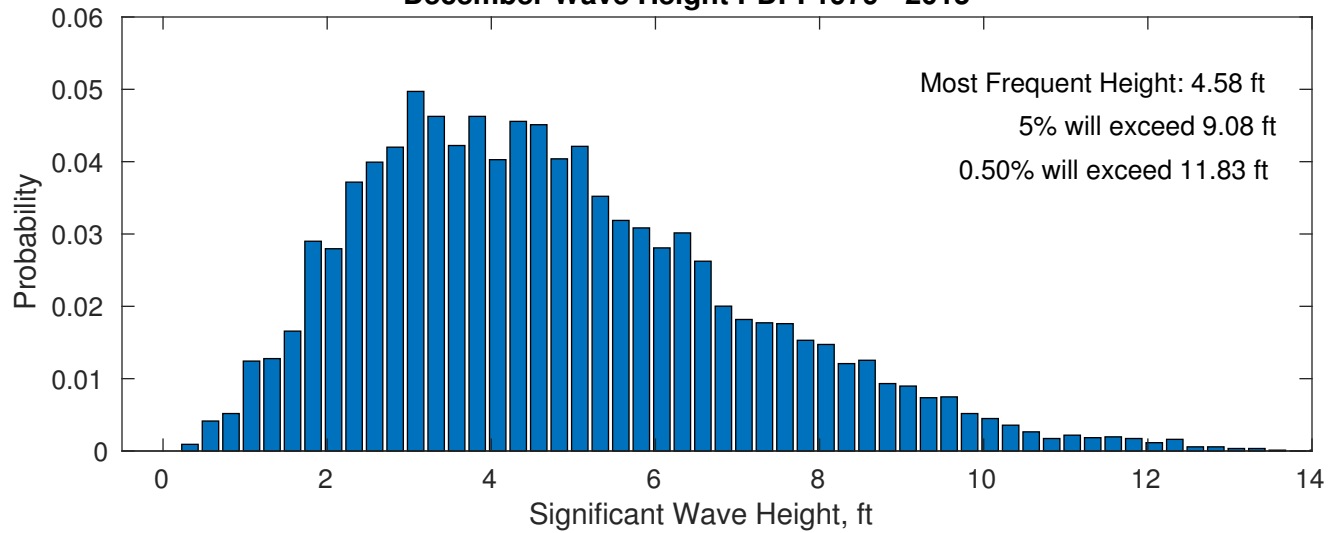
There is a 3 % chance of a storm with winds peaking above 34 kts.

There is a 5 % chance of a storm with waves peaking at 4m (13 ft) or greater.

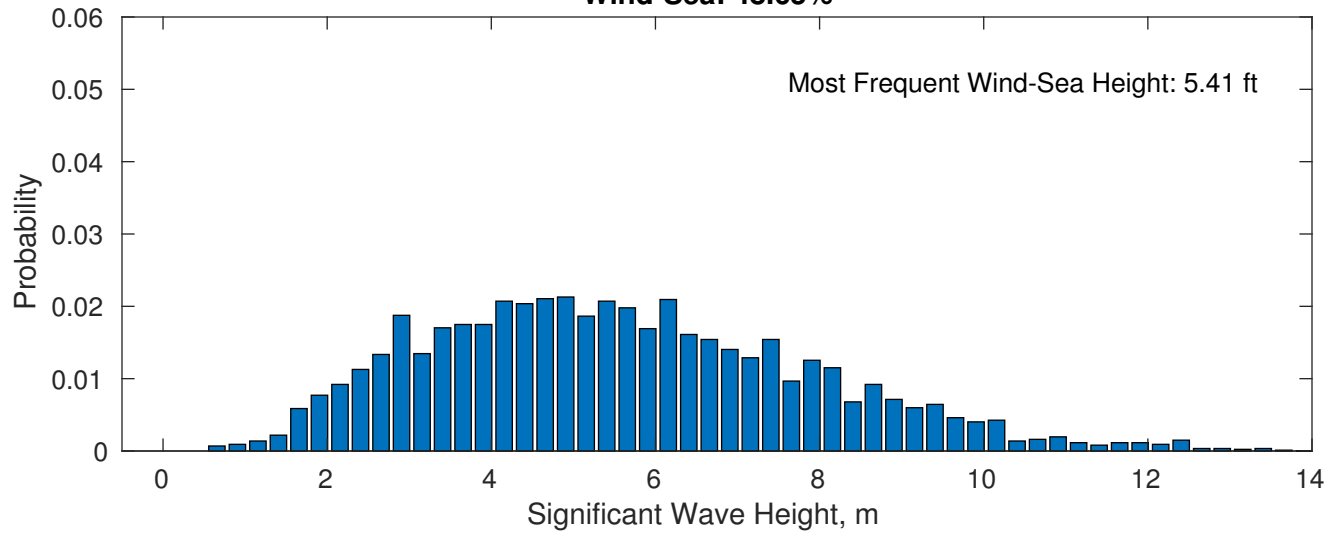




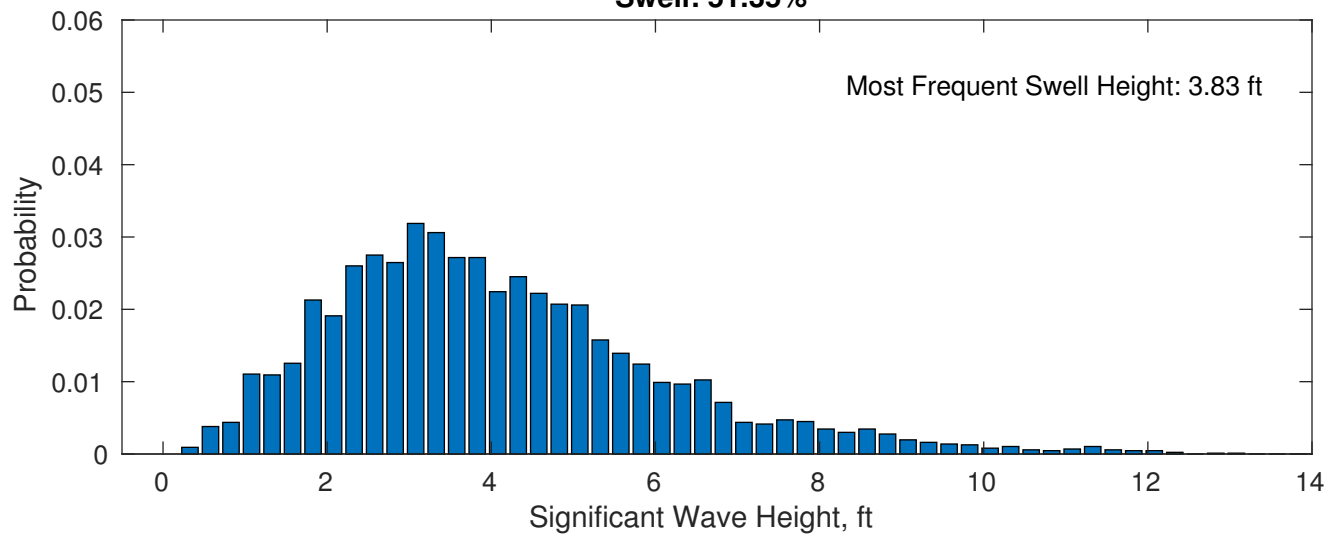
December Wave Height PDF: 1979 - 2015



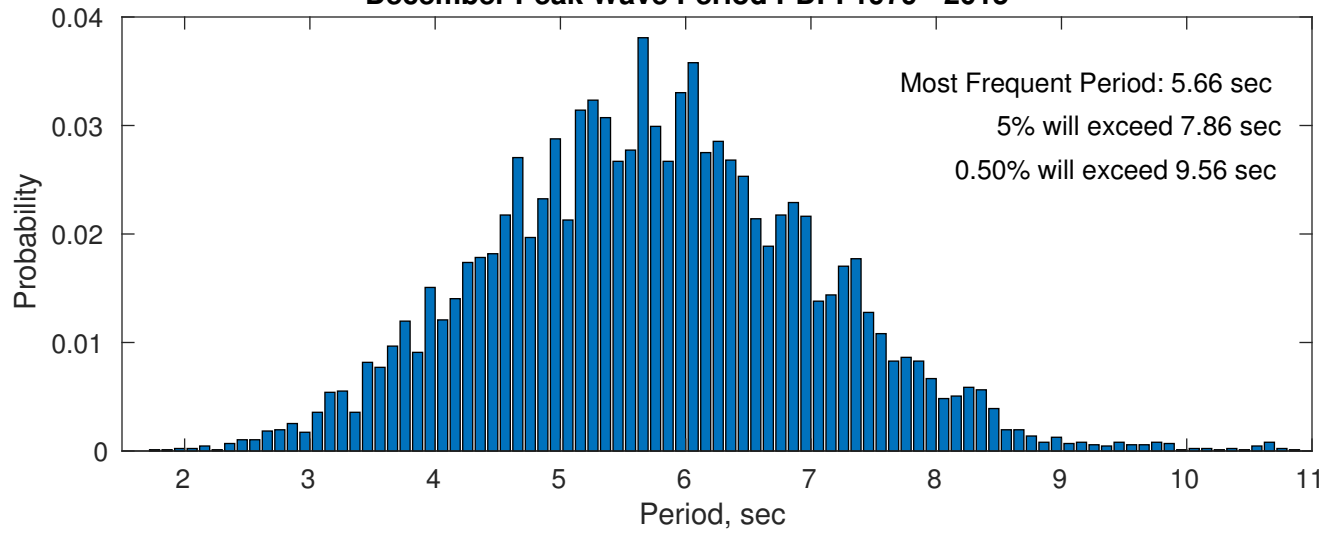
Wind-Sea: 48.65%



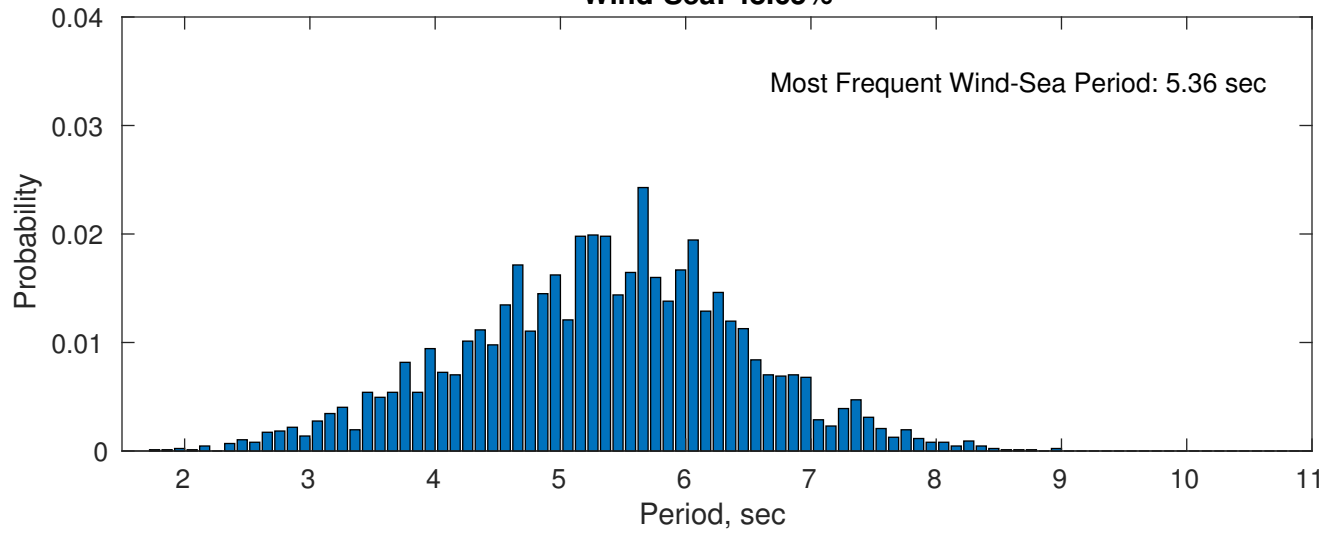
Swell: 51.35%



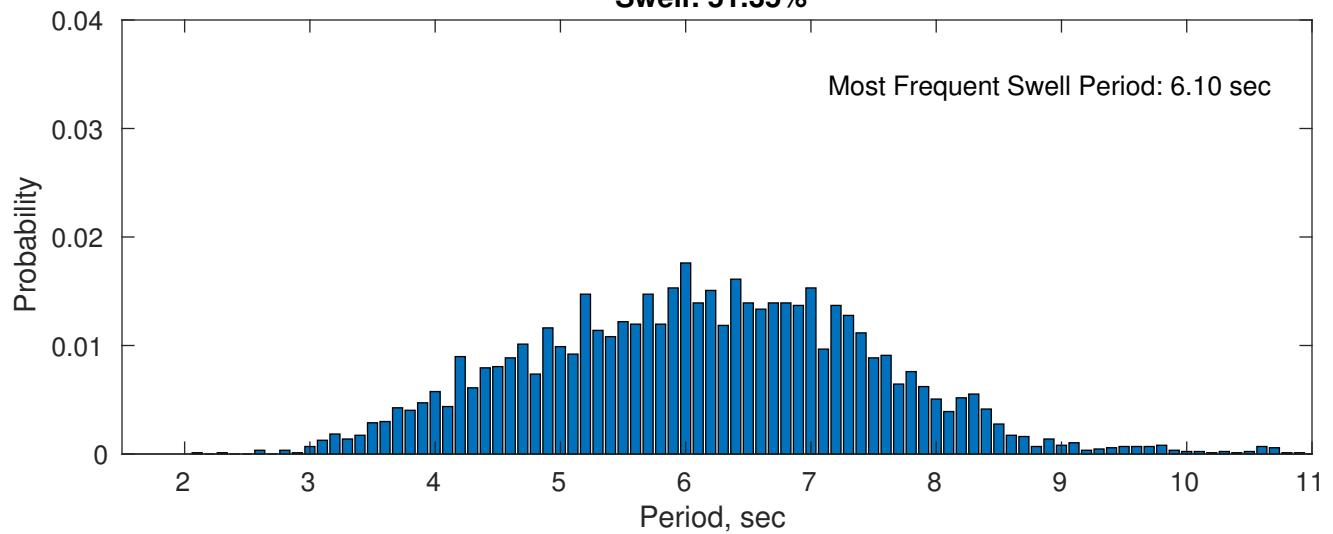
December Peak Wave Period PDF: 1979 - 2015



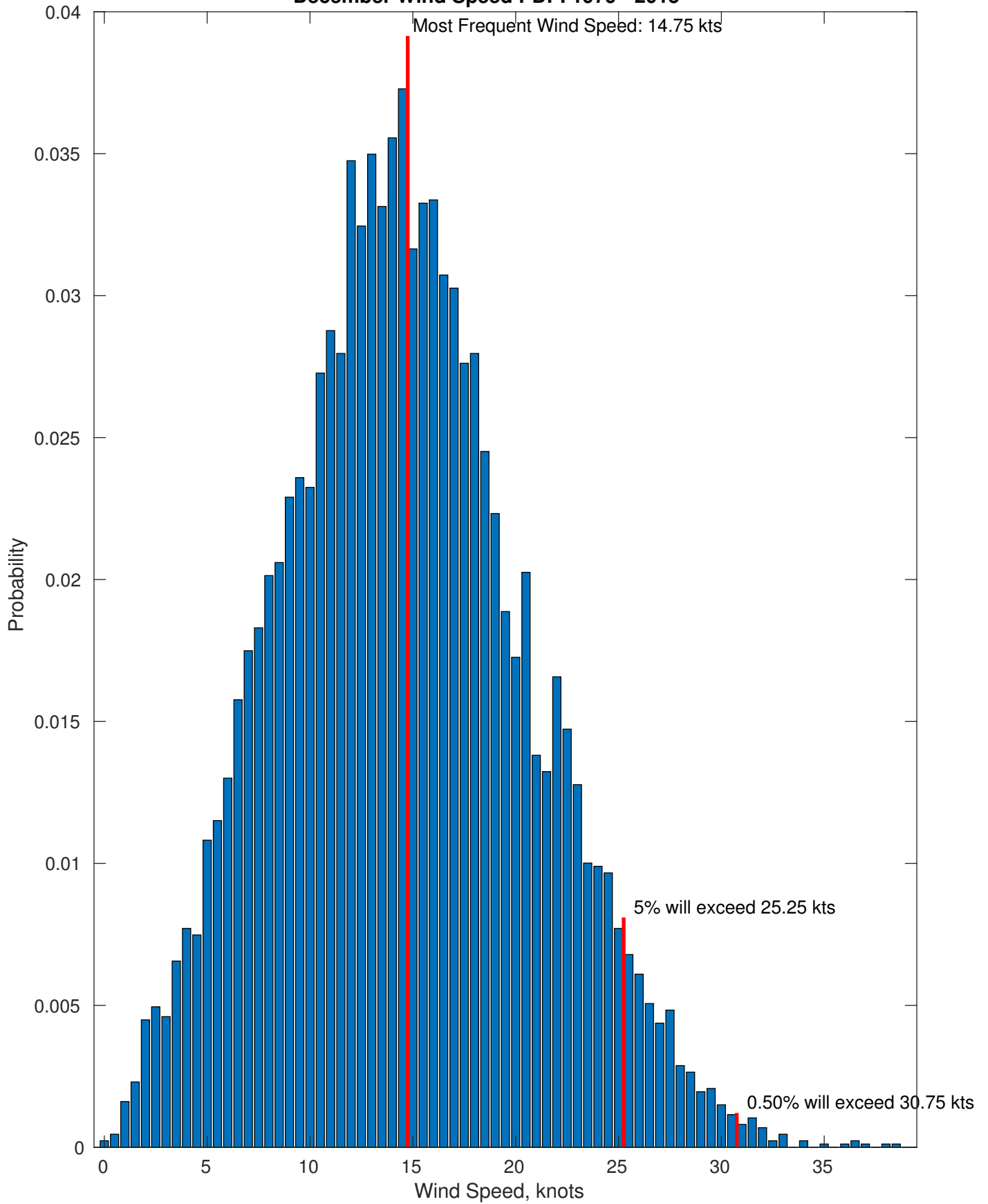
Wind-Sea: 48.65%



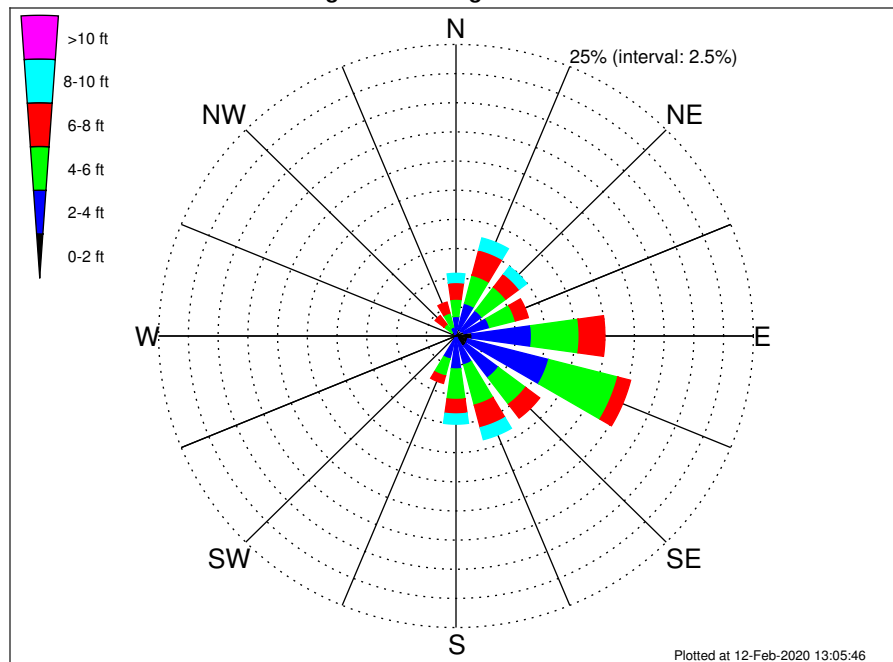
Swell: 51.35%



December Wind Speed PDF: 1979 - 2015



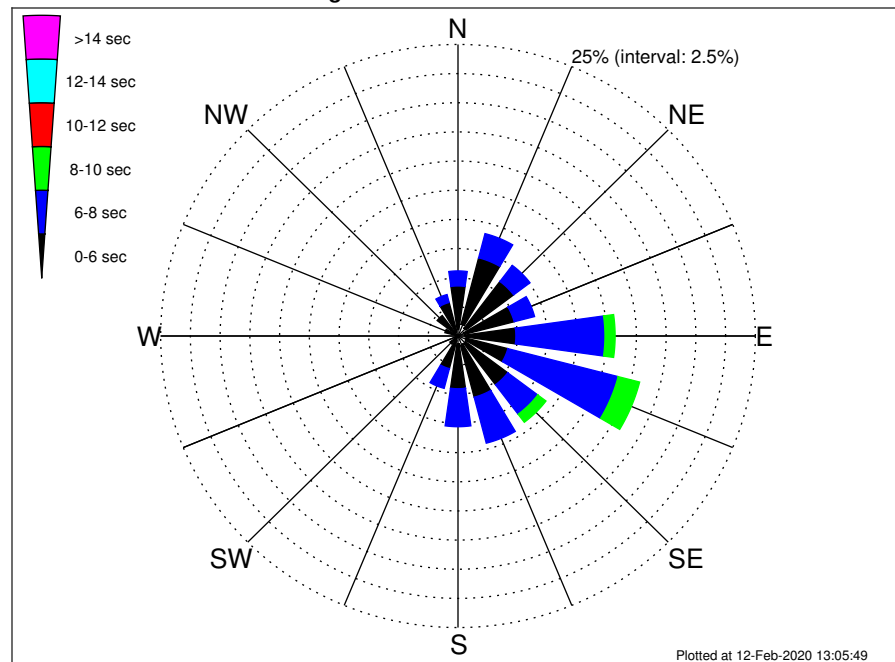
Flower Gardens NMS Climatological WaveHeight Rose for December: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.05	0.08	0.07	0.13	0.02	0.05	0.31	0.02	0.03	0.07	0.01	•	0.01	0.01	0.02	•	0.89
1 - 2 ft	0.20	0.54	0.49	0.58	1.33	0.97	0.75	0.14	0.29	0.12	0.17	0.06	0.08	0.08	0.10	0.16	6.05
2 - 4 ft	1.44	2.27	2.16	2.22	4.99	7.04	3.41	2.39	2.51	1.85	0.49	0.20	0.21	0.36	0.32	0.63	32.50
4 - 6 ft	1.48	2.50	2.52	2.23	4.00	6.00	2.87	3.57	2.61	1.51	0.30	0.06	0.18	0.22	0.82	1.24	32.11
6 - 8 ft	1.43	2.24	1.42	1.13	2.16	1.12	1.48	2.00	1.24	0.66	0.14	0.01	0.12	0.52	0.93	0.97	17.56
8 - 10 ft	0.78	1.06	0.79	0.33	0.56	0.38	0.47	1.06	0.87	0.48	0.05	0.01	0.08	0.21	0.49	0.55	8.19
10 - 12 ft	0.18	0.26	0.12	0.03	0.13	0.10	0.20	0.43	0.38	0.03	•	•	0.05	0.02	0.09	0.12	2.14
12 - 14 ft	0.02	0.09	0.01	•	•	0.13	0.05	0.18	0.05	•	•	•	•	•	0.01	•	0.54
14 - 16 ft	•	0.02	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.02
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	5.58	9.07	7.58	6.65	13.21	15.78	9.53	9.79	7.99	4.72	1.16	0.33	0.72	1.42	2.80	3.67	100.00

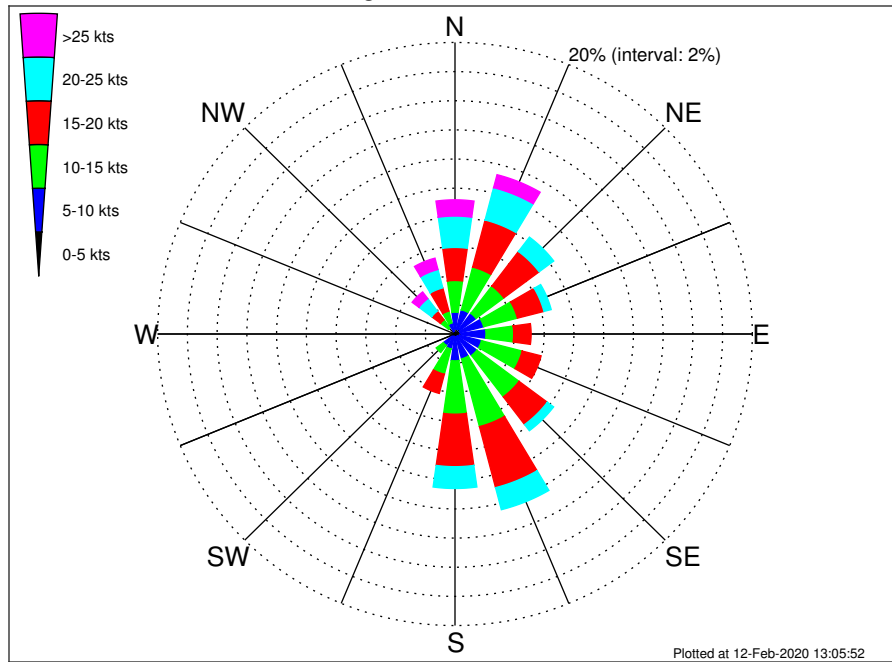
Flower Gardens NMS Climatological WavePeriod Rose for December: 1979 - 2015



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	.	.	.	.	.	0.02	0.01	0.01	.	.	.	.	.	.	.	.	0.05
2 - 4 sec	0.55	1.04	0.84	0.54	0.60	0.69	0.78	0.79	0.67	0.43	0.21	0.09	0.08	0.18	0.32	0.38	8.19
4 - 6 sec	3.74	5.89	5.02	4.34	4.27	3.61	4.44	4.61	3.86	2.46	0.66	0.21	0.47	0.96	1.88	2.59	49.00
6 - 8 sec	1.29	2.14	1.73	1.77	7.49	9.59	3.16	4.07	3.26	1.75	0.30	0.03	0.17	0.28	0.60	0.70	38.33
8 - 10 sec	.	.	.	.	0.85	1.86	0.86	0.30	0.21	0.08	.	.	.	.	.	.	4.17
10 - 12 sec	.	.	.	.	.	.	0.26	.	.	.	.	.	.	.	.	.	0.26
12 - 14 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14 - 16 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
18 - 20 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22 - 24 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	5.58	9.07	7.58	6.65	13.21	15.78	9.53	9.79	7.99	4.72	1.16	0.33	0.72	1.42	2.80	3.67	100.00

Flower Gardens NMS Climatological Wind Rose for December: 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	•	•	0.01	•	•	•	0.01	•	•	•	0.01	0.07
0 - 5 kts	0.37	0.32	0.39	0.35	0.40	0.31	0.23	0.18	0.32	0.17	0.24	0.14	0.10	0.13	0.13	0.18	3.97
5 - 10 kts	1.13	1.38	1.37	1.65	1.67	1.53	1.61	1.57	1.52	0.89	0.74	0.48	0.44	0.45	0.41	0.59	17.41
10 - 15 kts	2.17	3.03	2.35	2.35	1.86	2.83	3.56	4.80	3.66	1.80	0.61	0.32	0.35	0.35	0.68	0.84	31.54
15 - 20 kts	2.27	3.34	2.97	1.84	1.17	1.31	2.38	4.33	3.60	1.36	0.37	0.17	0.18	0.37	0.75	1.65	28.06
20 - 25 kts	2.15	2.29	1.23	0.51	0.35	0.32	0.53	1.57	1.50	0.35	0.17	0.07	0.12	0.31	1.07	1.30	13.82
25 - 30 kts	0.85	0.77	0.26	0.08	0.01	0.06	0.07	0.41	0.31	0.07	0.01	0.02	0.12	0.17	0.49	0.72	4.44
30 - 35 kts	0.25	0.12	0.03	0.01	•	•	•	0.01	0.01	•	0.01	•	0.01	0.01	0.06	0.08	0.61
35 - 40 kts	0.01	0.03	•	•	0.01	•	•	•	•	•	•	•	•	•	0.02	•	0.08
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	9.21	11.29	8.62	6.78	5.49	6.36	8.38	12.88	10.92	4.63	2.15	1.22	1.31	1.78	3.61	5.37	100.00