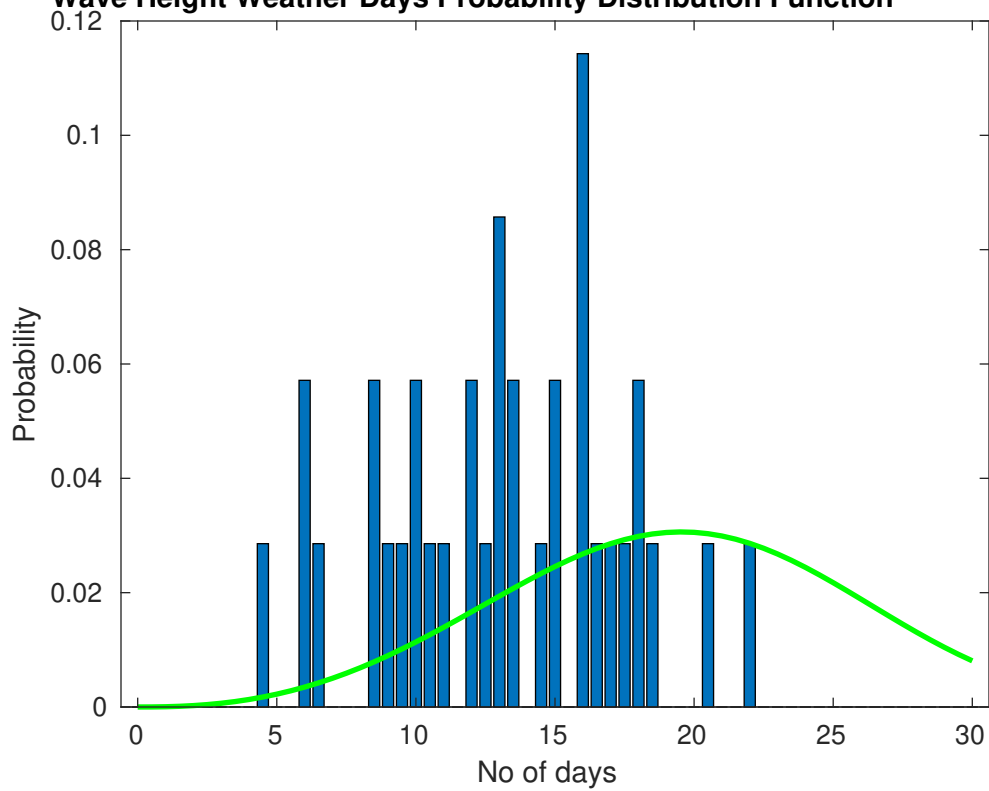
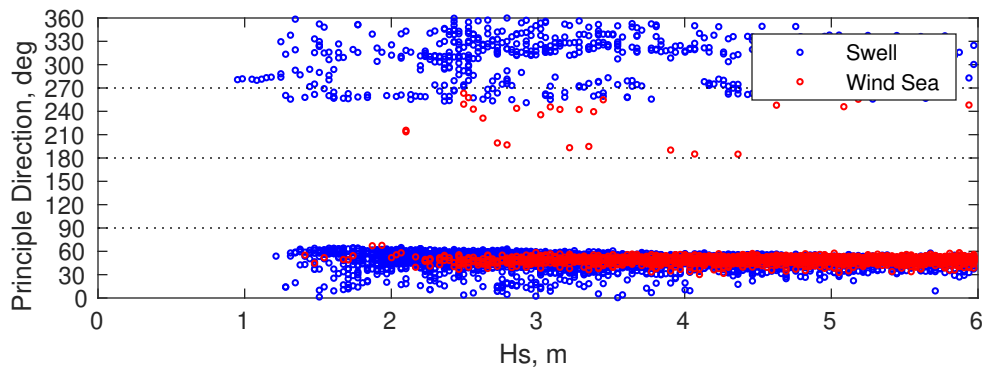
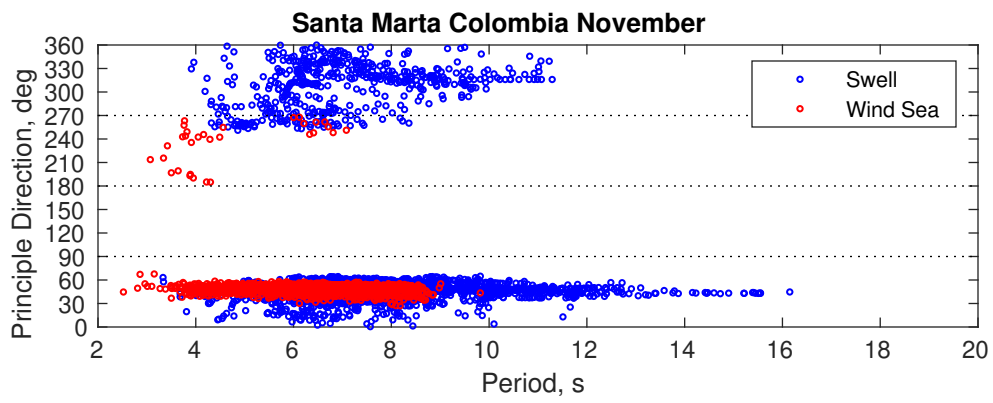
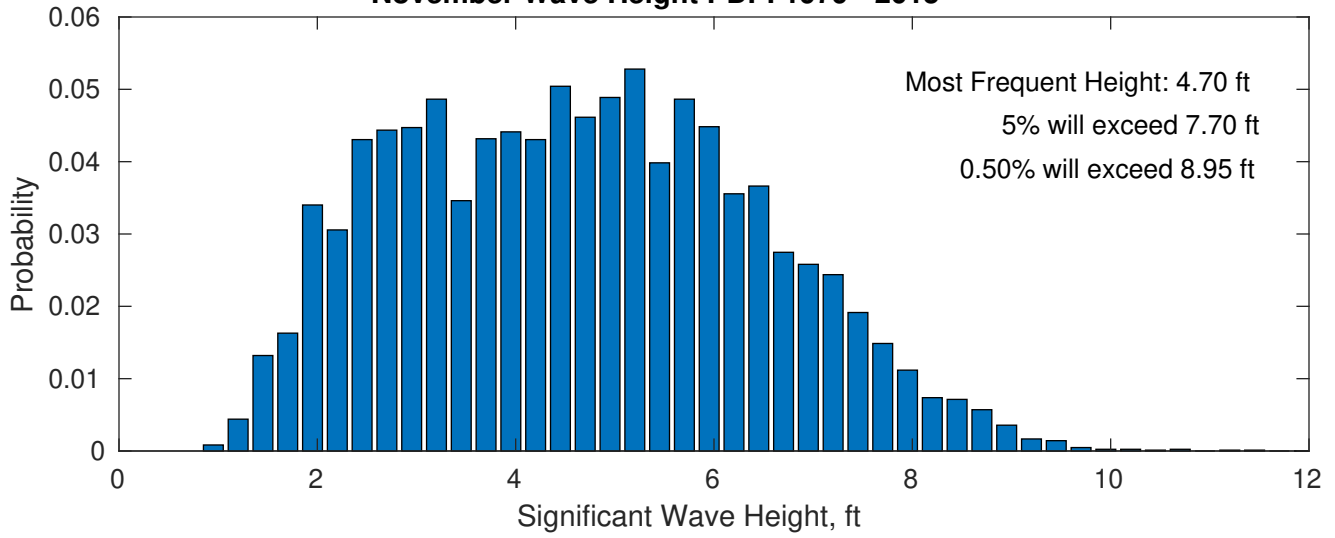


Wave Height Weather Days Probability Distribution Function

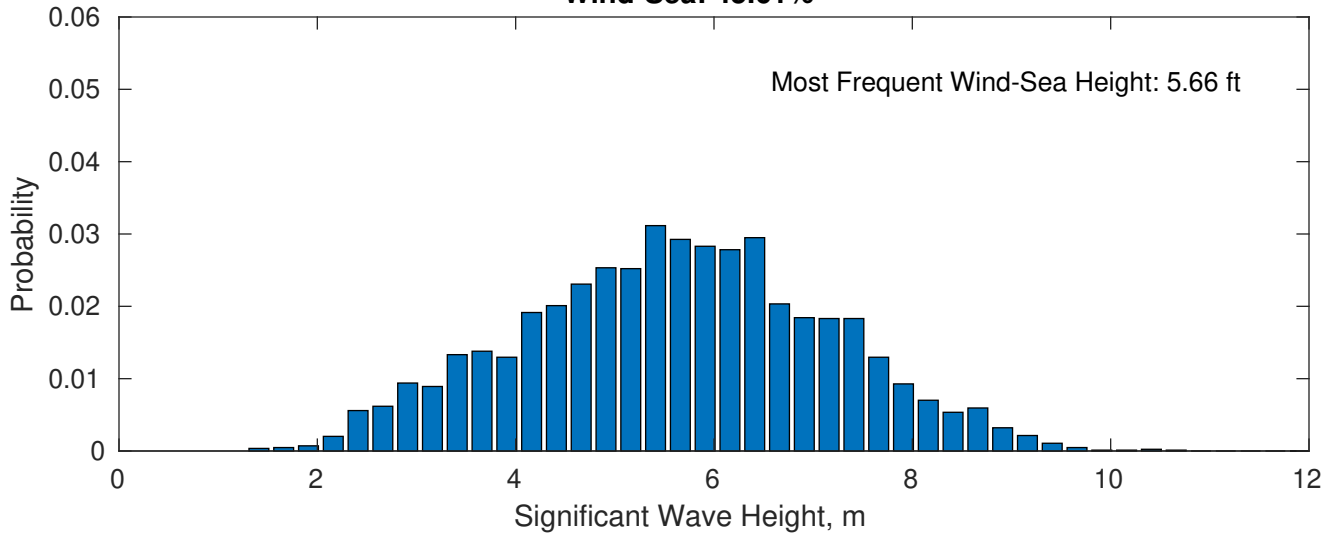




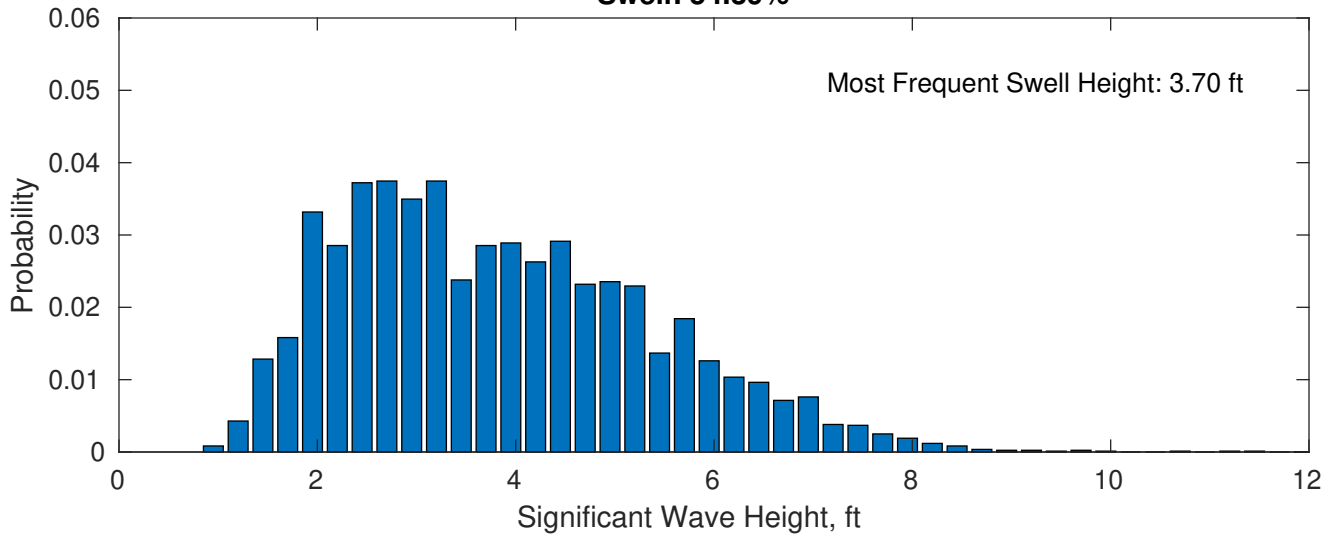
November Wave Height PDF: 1979 - 2015



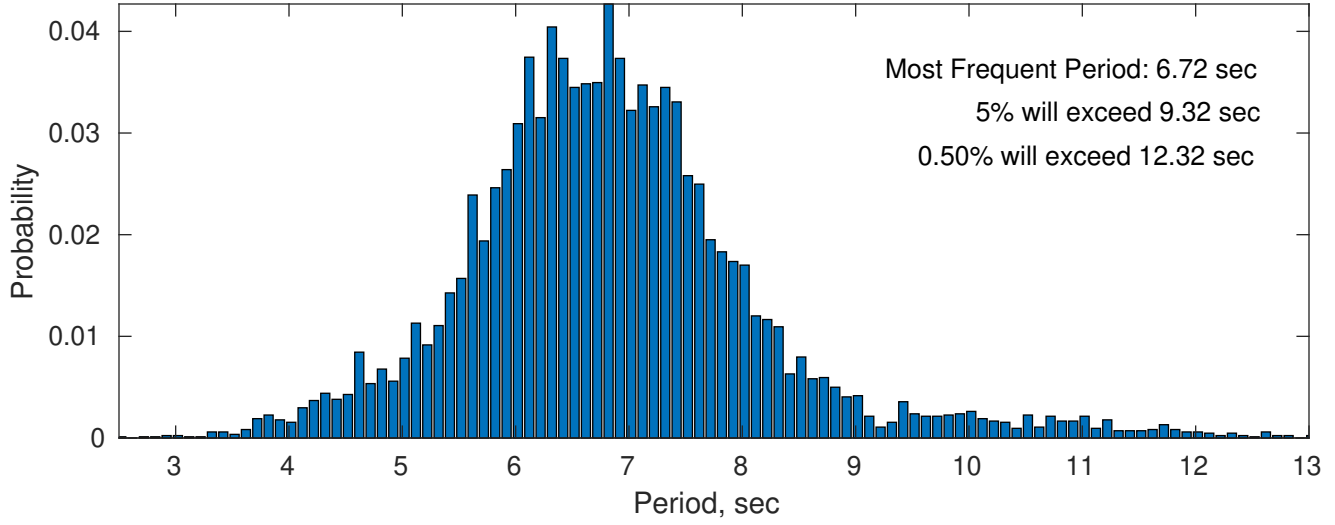
Wind-Sea: 45.61%



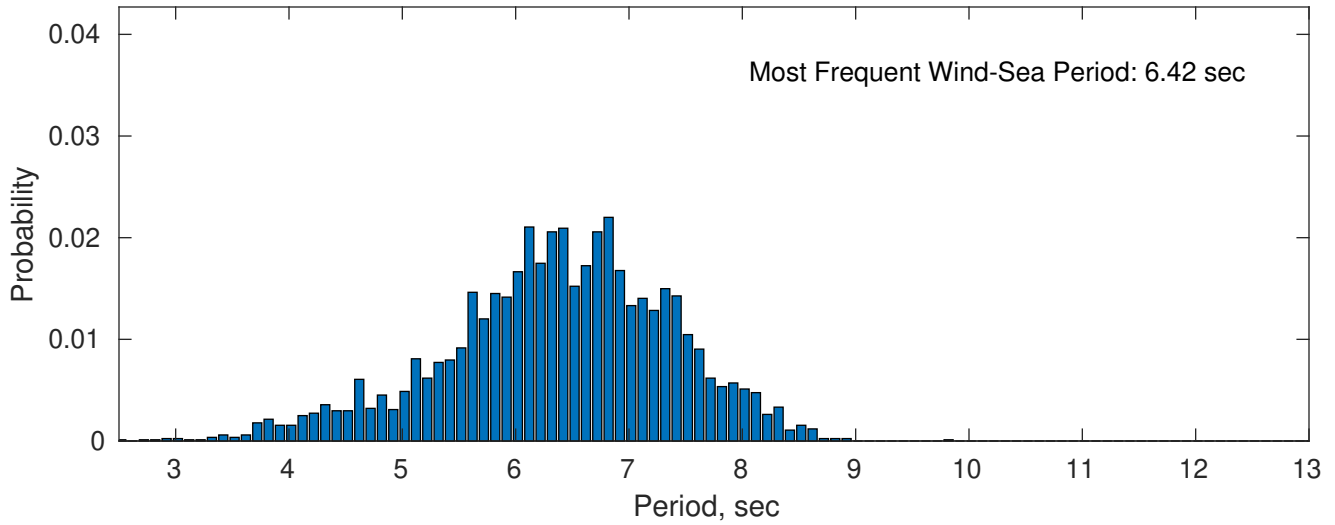
Swell: 54.39%



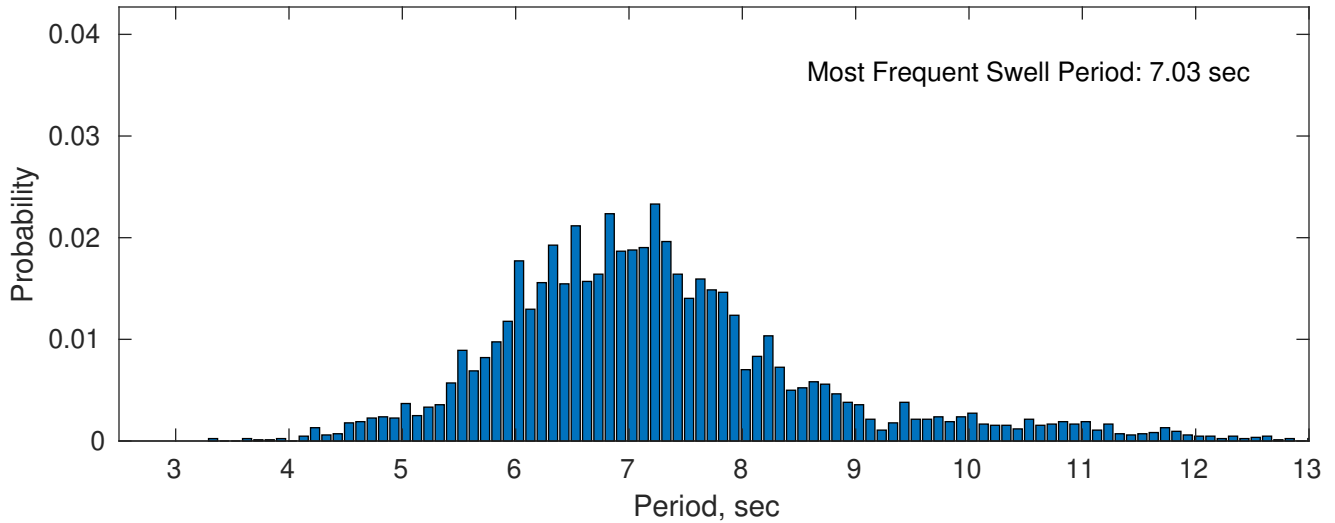
November Peak Wave Period PDF: 1979 - 2015



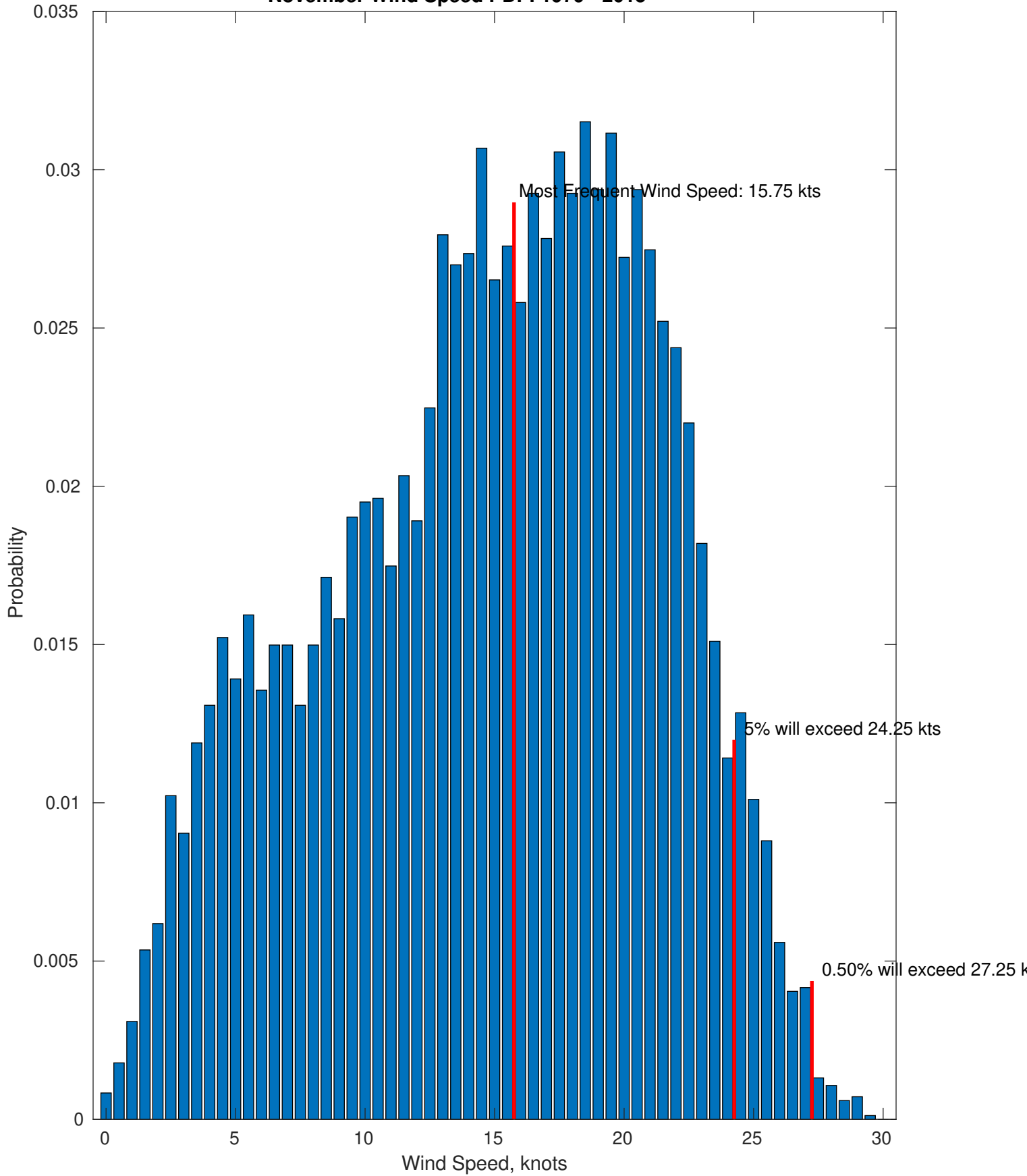
Wind-Sea: 45.61%



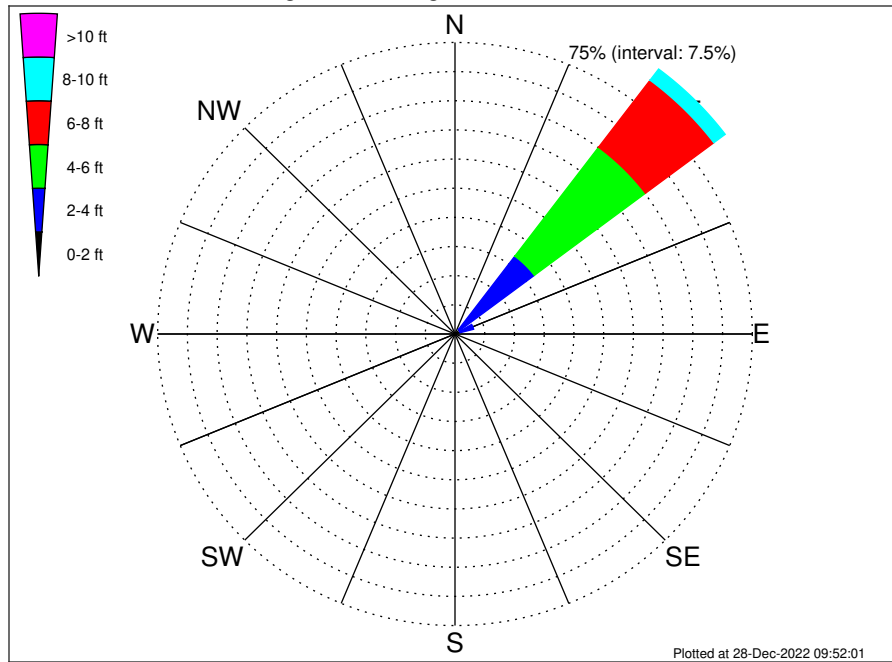
Swell: 54.39%



November Wind Speed PDF: 1979 - 2015



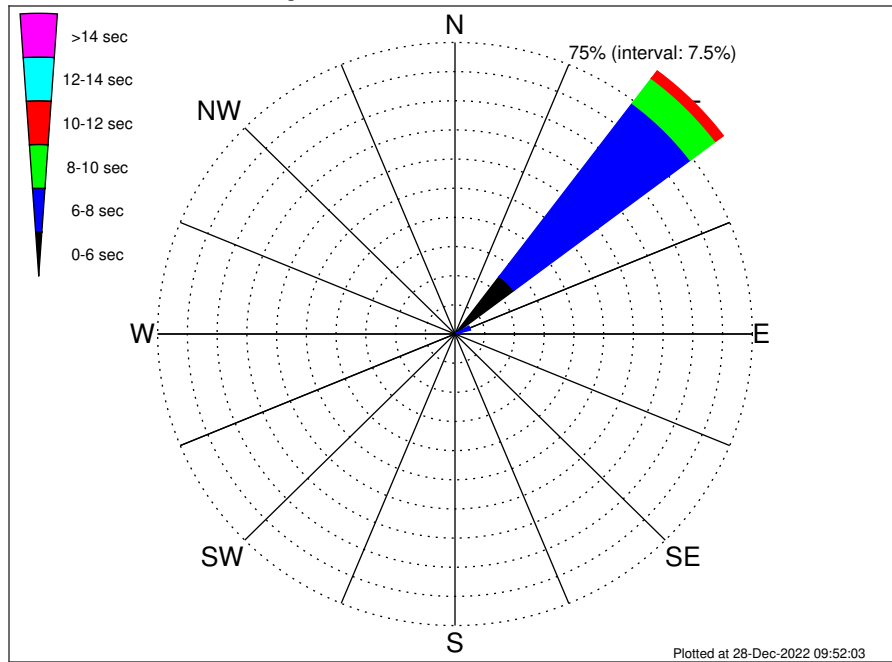
Santa Marta Colombia Climatological WaveHeight Rose for November: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	0.01	0.01	•	•	0.02
1 - 2 ft	0.10	0.30	1.45	1.36	•	•	•	•	•	•	0.11	0.14	0.14	0.20	0.08	3.88
2 - 4 ft	0.43	1.33	23.62	3.51	•	•	•	0.01	0.06	0.04	0.26	0.57	0.29	1.38	1.01	32.50
4 - 6 ft	0.08	0.57	35.09	0.26	•	•	•	0.02	•	•	0.07	0.45	0.12	0.40	0.25	37.33
6 - 8 ft	•	0.45	21.60	0.06	•	•	•	•	•	•	0.04	0.01	0.08	0.25	0.01	22.50
8 - 10 ft	•	0.06	3.59	•	•	•	•	•	•	•	•	•	0.02	•	•	3.67
10 - 12 ft	•	•	0.05	•	•	•	•	•	•	•	•	•	0.05	•	•	0.10
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.61	2.71	85.40	5.18	•	•	•	0.04	0.06	0.04	0.48	1.19	0.71	2.24	1.36	100.00

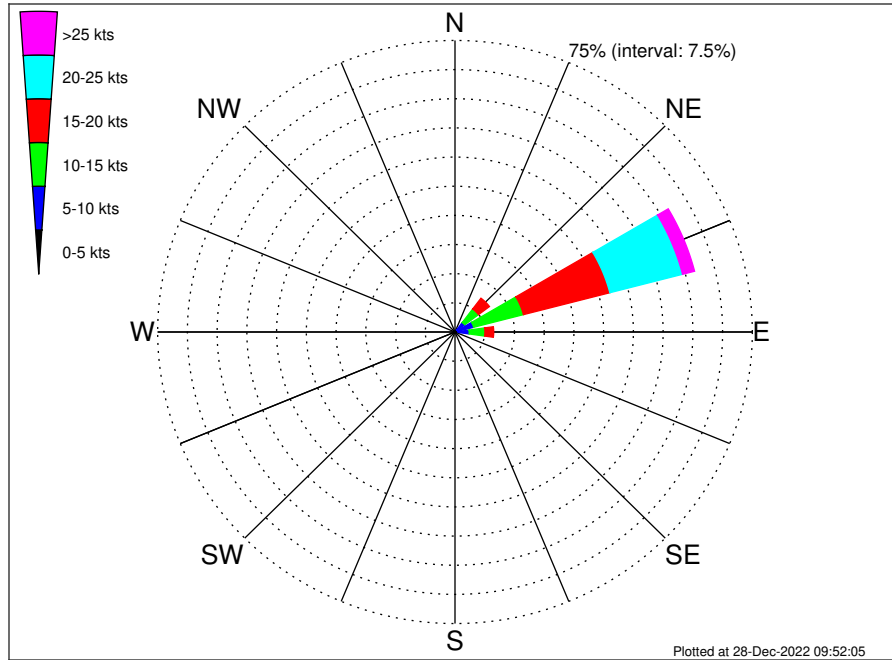
Santa Marta Colombia Climatological WavePeriod Rose for November: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 sec	•	0.01	0.61	0.06	•	•	•	0.01	0.06	0.04	0.05	0.01	•	•	0.02	0.87
4 - 6 sec	0.12	0.43	17.96	0.34	•	•	•	0.02	•	•	0.24	0.52	0.33	0.26	0.17	20.39
6 - 8 sec	0.38	1.52	55.73	3.64	•	•	•	•	•	•	0.19	0.59	0.23	0.86	0.96	64.10
8 - 10 sec	0.10	0.73	8.03	1.05	•	•	•	•	•	•	•	0.06	0.15	0.92	0.14	11.17
10 - 12 sec	0.01	0.02	2.43	0.07	•	•	•	•	•	•	•	•	•	0.20	0.06	2.79
12 - 14 sec	•	•	0.44	0.02	•	•	•	•	•	•	•	•	•	•	•	0.46
14 - 16 sec	•	•	0.20	•	•	•	•	•	•	•	•	•	•	•	•	0.20
18 - 20 sec	•	•	0.01	•	•	•	•	•	•	•	•	•	•	•	•	0.01
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.61	2.71	85.40	5.18	•	•	•	0.04	0.06	0.04	0.48	1.19	0.71	2.24	1.36	100.00

Santa Marta Colombia 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	0.04	•	0.04	0.05	0.04	•	0.01	0.02	•	0.01	0.01	•	0.01	0.01	0.01	0.01	0.26
0 - 5 kts	0.33	0.42	0.64	0.71	0.78	0.58	0.64	0.58	0.55	0.48	0.36	0.33	0.24	0.24	0.27	0.25	7.41
5 - 10 kts	0.25	0.74	2.39	4.10	2.77	0.87	0.44	0.38	0.95	0.89	0.52	0.36	0.34	0.12	0.10	0.12	15.34
10 - 15 kts	•	0.08	4.35	12.96	3.96	0.08	•	•	0.27	0.84	0.29	0.23	0.04	0.01	•	0.01	23.13
15 - 20 kts	•	•	3.46	22.52	2.21	•	•	•	0.10	0.37	0.18	0.05	•	•	•	•	28.89
20 - 25 kts	•	•	1.70	18.94	0.43	•	•	•	0.04	0.17	0.05	•	•	•	•	•	21.32
25 - 30 kts	•	•	0.39	3.13	0.02	•	•	•	0.05	0.05	0.01	•	•	•	•	•	3.65
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.62	1.24	12.97	62.42	10.22	1.53	1.09	0.99	1.90	2.81	1.45	0.98	0.63	0.38	0.38	0.39	100.00