

Santa Marta Colombia - January

Latitude: 11.45 N Longitude: 74.66 W

Weather Days

Wave Height > 5.0 ft Mean: 26.1 days Range: 23.1 - 29.1 days p50: 20 days p90: 20 days

Wave Height > 6.0 ft Mean: 21.5 days Range: 16.5 - 26.5 days p50: 20 days p90: 20 days

Wave Height > 7.0 ft Mean: 14.9 days Range: 9.3 - 20.6 days p50: 16 days p90: 20 days

Working Window Probability

Wave Height < 5.0 ft
3 days or longer: 16%
5 days or longer: 2%
7 days or longer: 0%

Wave Height < 6.0 ft
3 days or longer: 18%
5 days or longer: 3%
7 days or longer: 2%

Wave Height < 7.0 ft
3 days or longer: 19%
5 days or longer: 5%
7 days or longer: 3%

Waves

Mean Height: 6 - 8 ft

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

Mean Period: 6 - 8 sec

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

Principle Direction, from: NE

WindSea/Swell: 90% / 10%

Winds

Mean Speed: 20 - 25 kts

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

Principle Direction, from: ENE

Currents

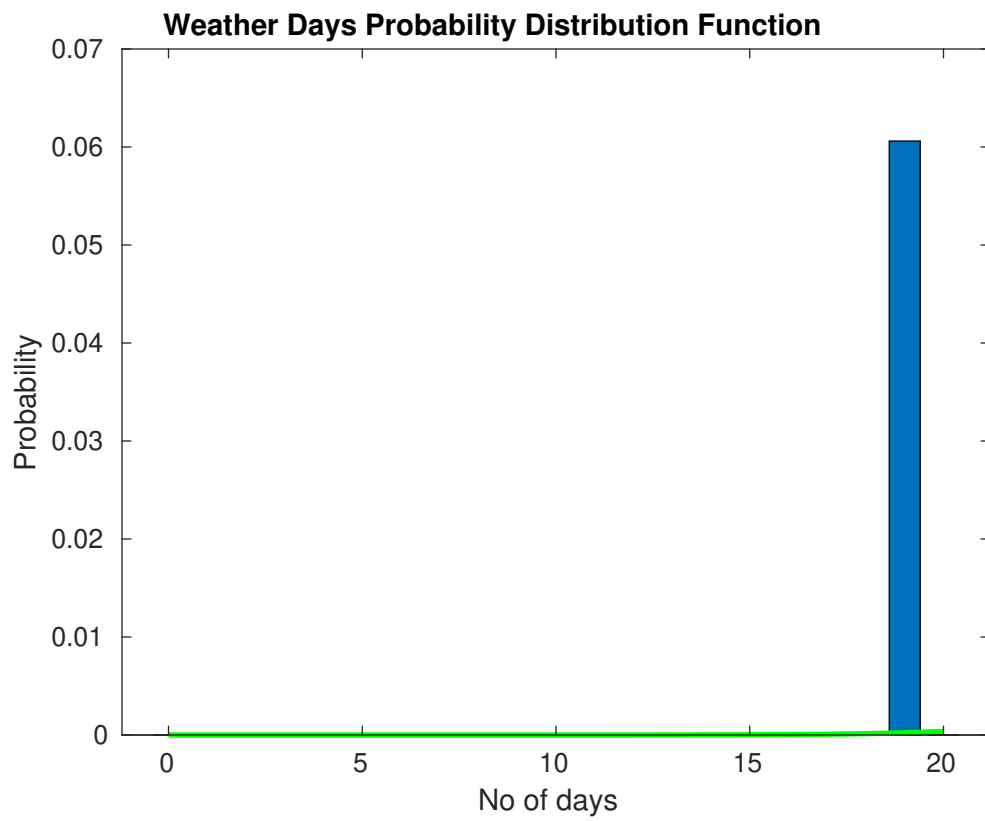
Mean Speed: 0.75-1.00 kts

The currents will occasionally reach 2.25-2.50 kts, but rarely greater.

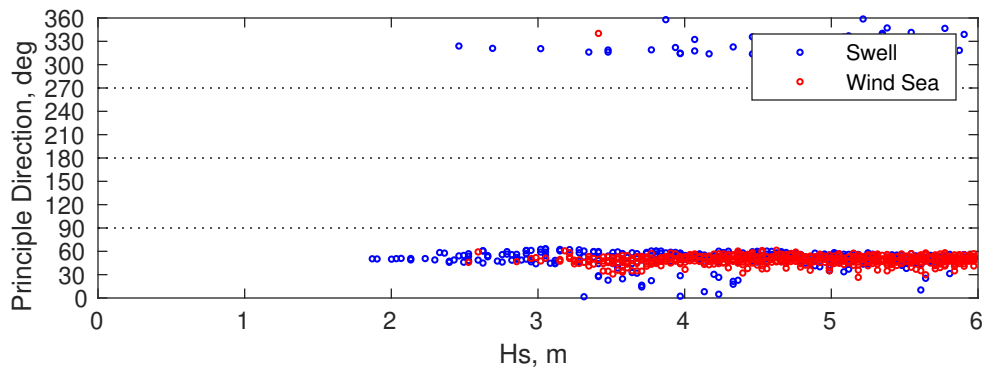
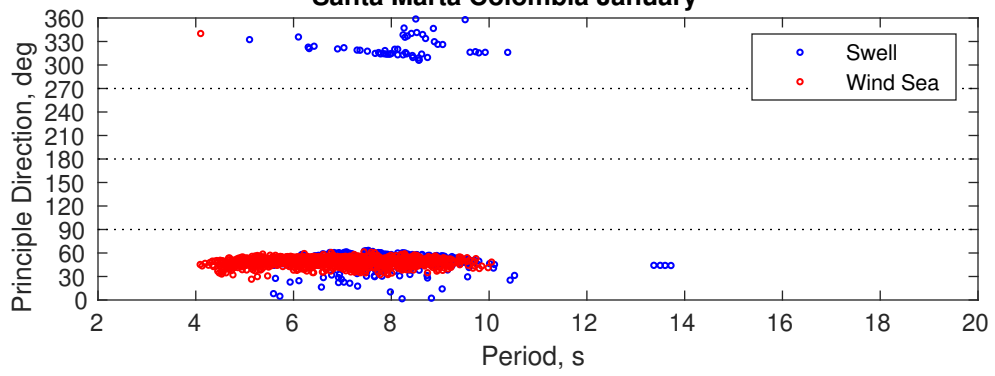
Principle Direction, to: WSW

Severe Storms

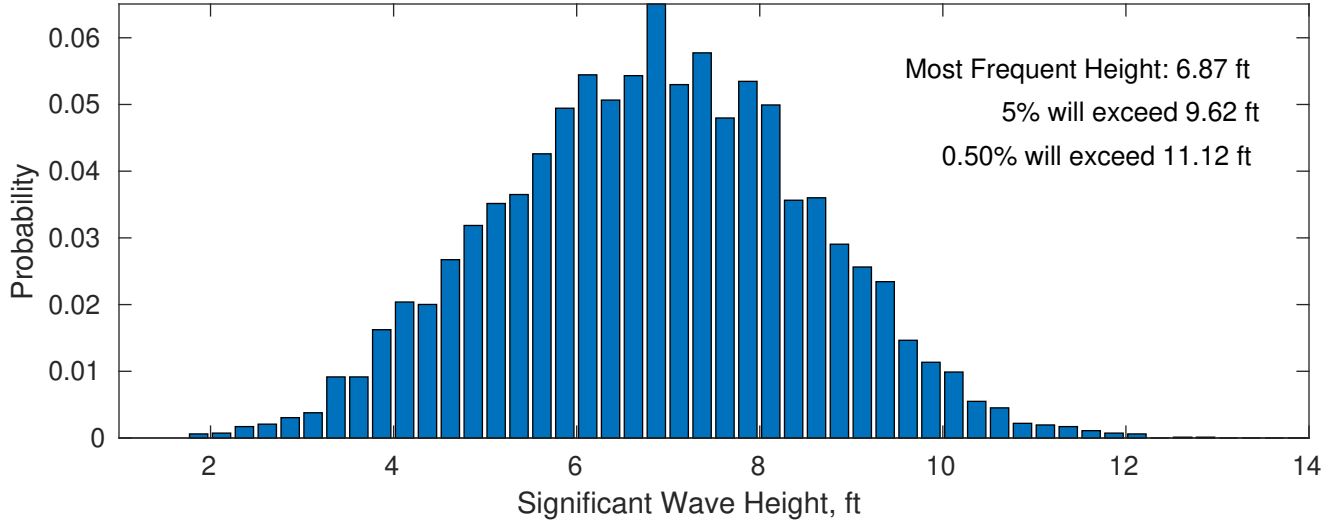
Severe storms with gale force winds and extreme waves are not expected.



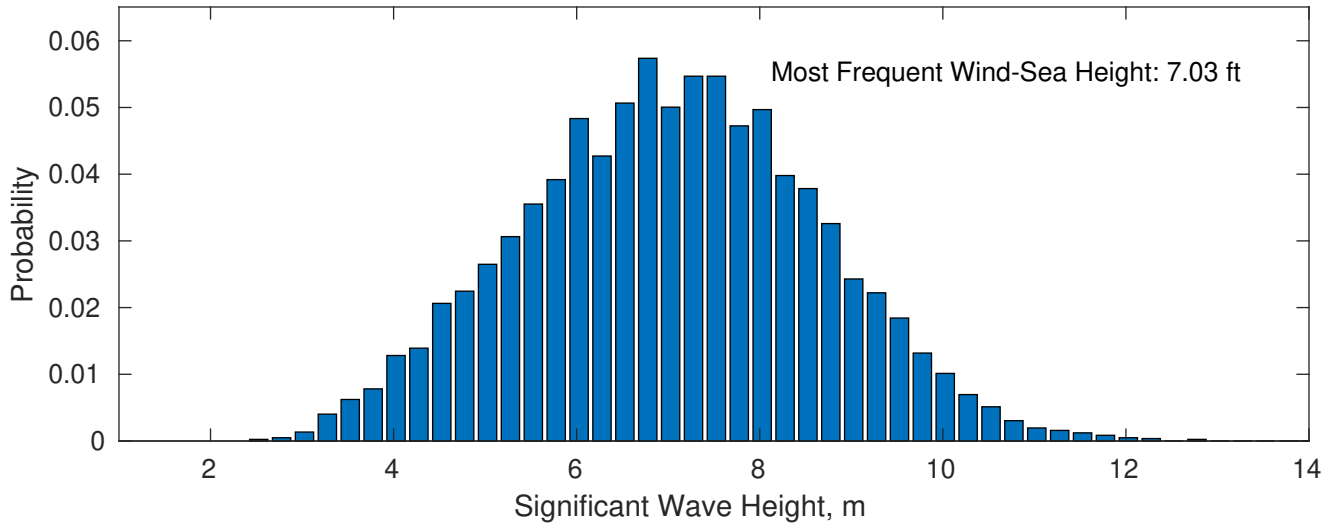
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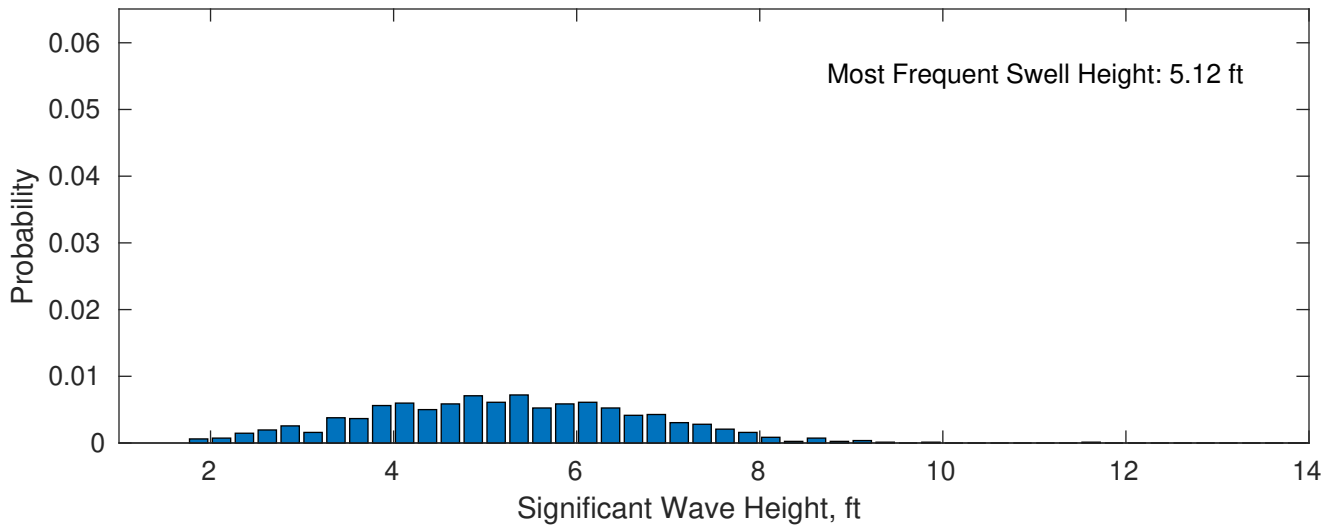
January Wave Height PDF: 1979 - 2015



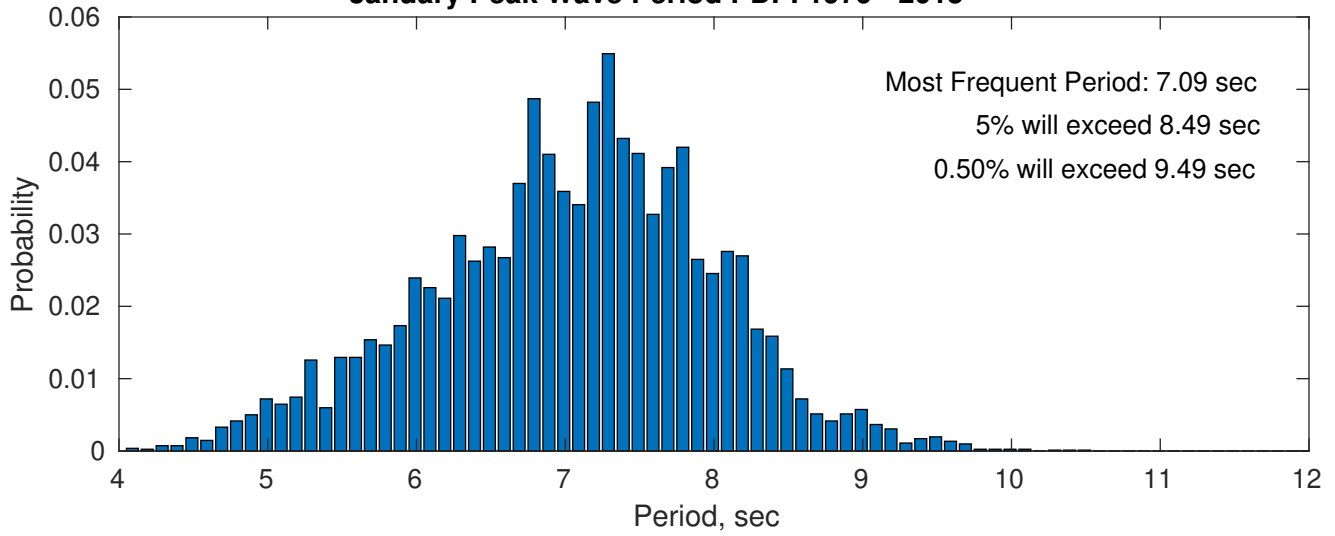
Wind-Sea: 89.76%



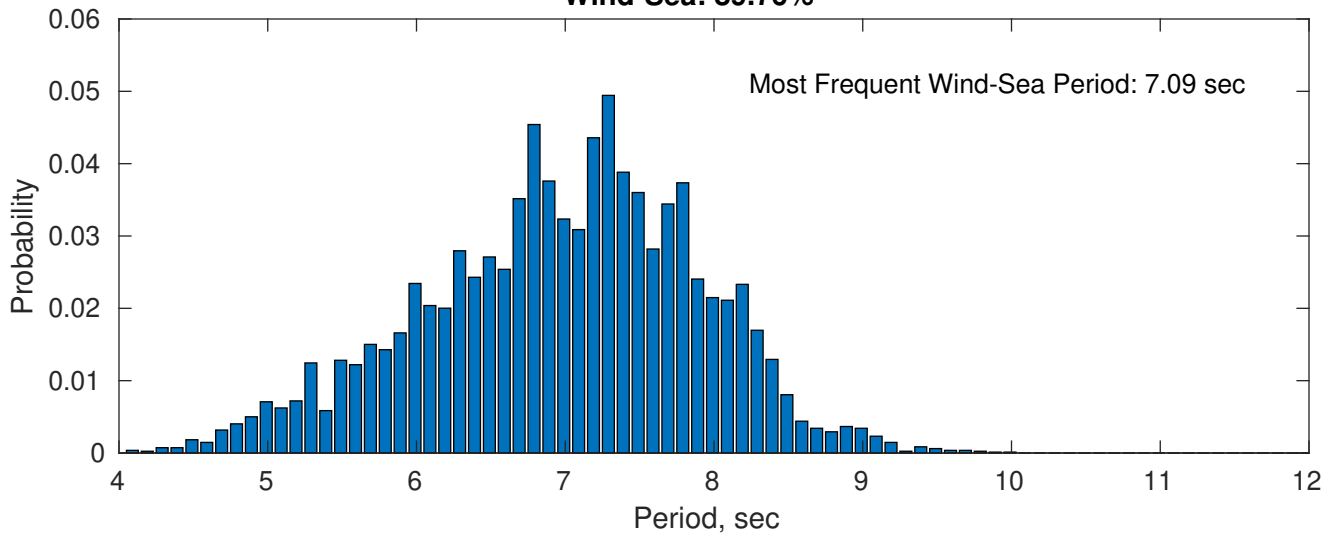
Swell: 10.24%



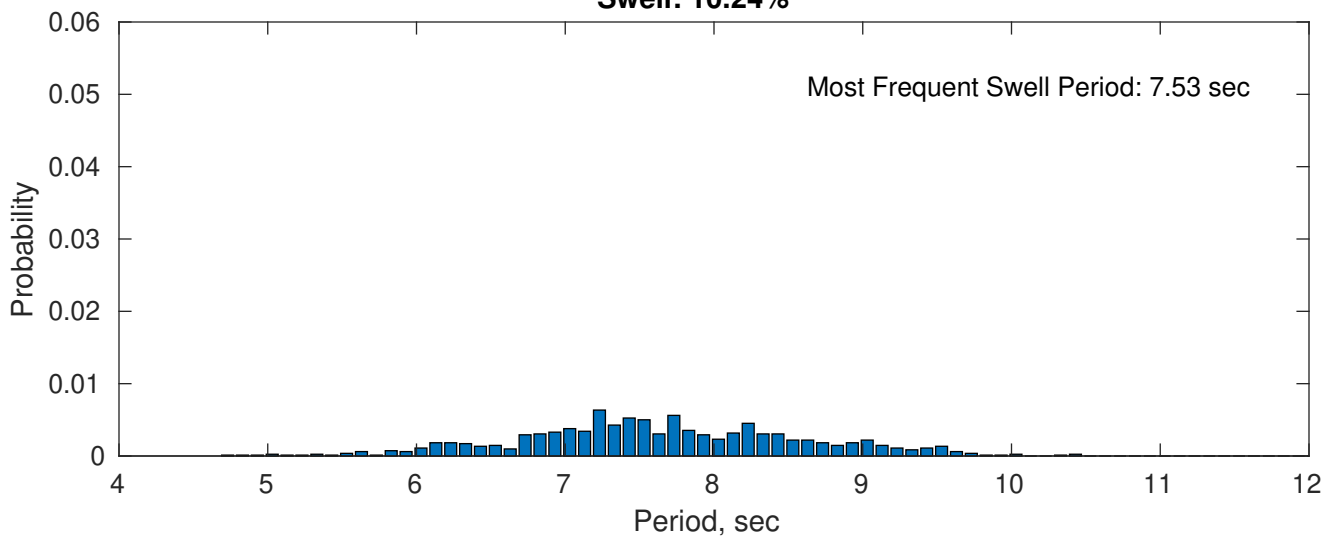
January Peak Wave Period PDF: 1979 - 2015



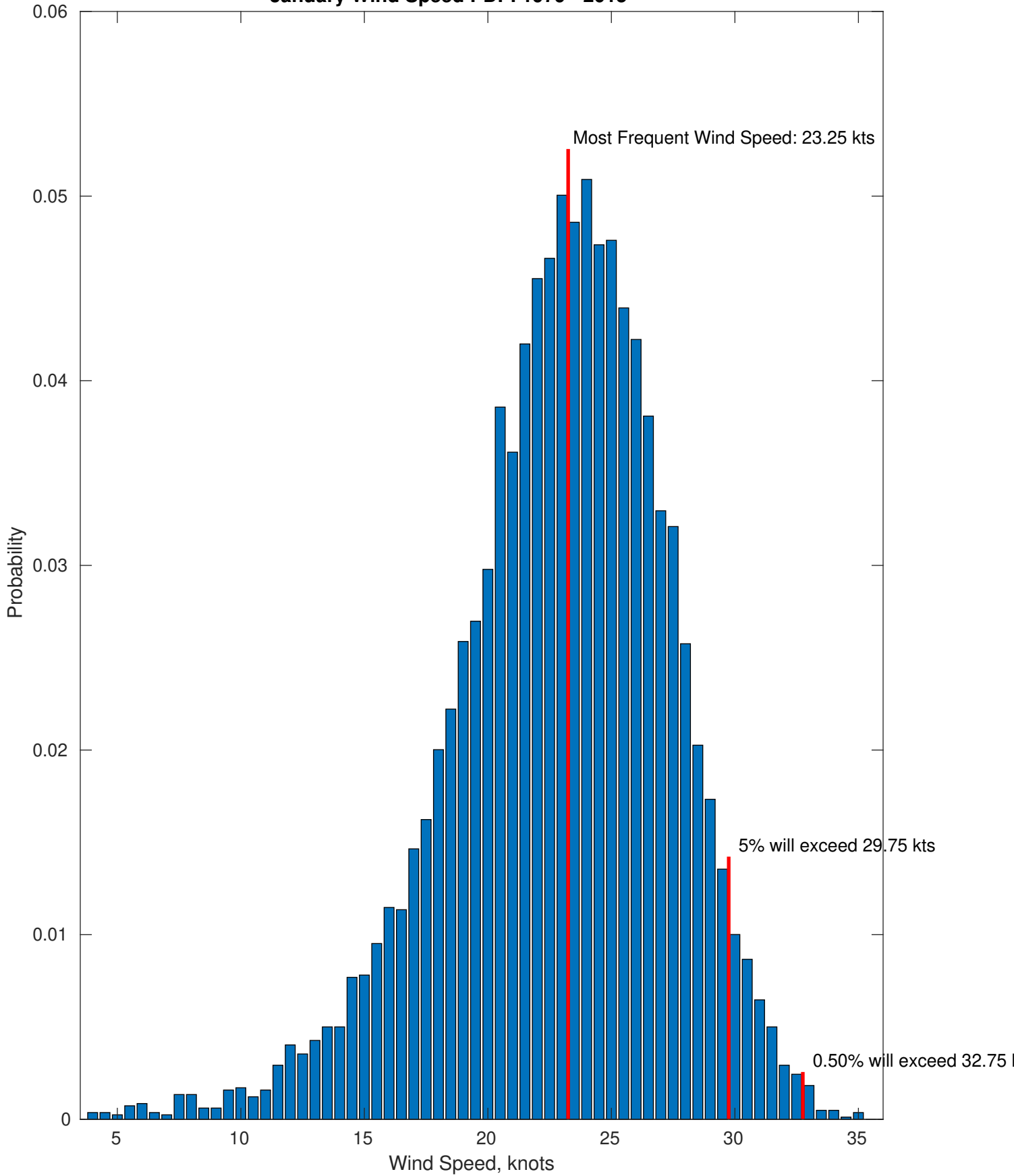
Wind-Sea: 89.76%



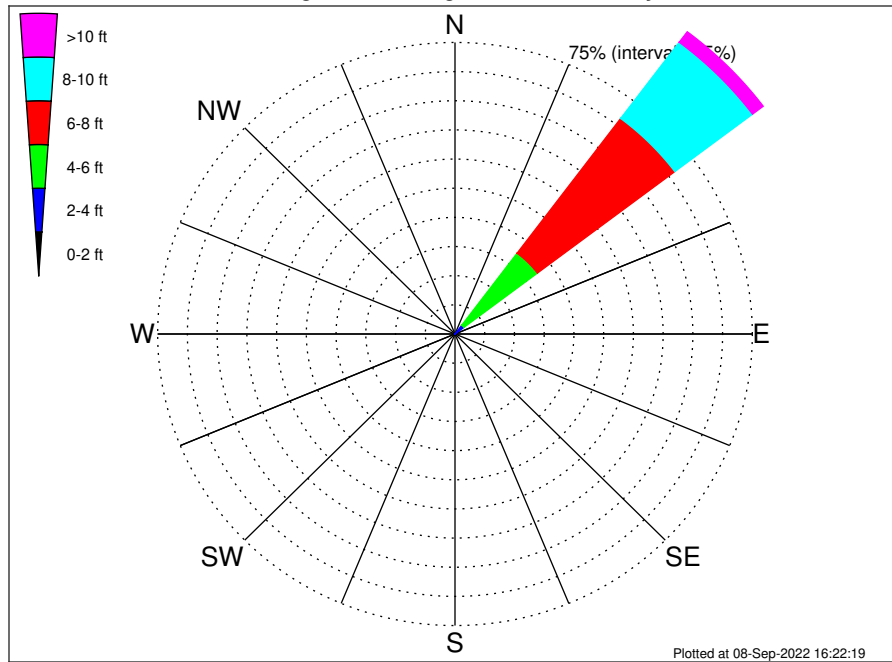
Swell: 10.24%



January Wind Speed PDF: 1979 - 2015



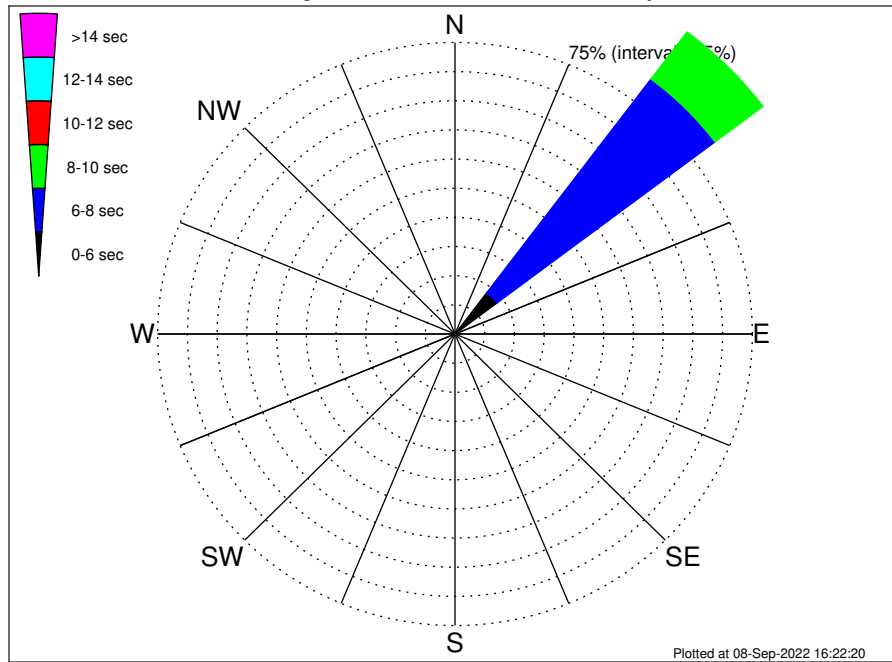
Santa Marta Colombia Climatological WaveHeight Rose for January: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 ft	•	•	0.02	•	•	•	•	•	•	•	•	•	•	•	•	0.02
2 - 4 ft	0.04	0.15	2.80	0.66	•	•	•	•	•	•	•	•	•	0.12	0.01	3.77
4 - 6 ft	0.05	0.13	23.21	0.79	•	•	•	•	•	•	•	•	•	0.20	0.13	24.51
6 - 8 ft	•	0.12	43.41	0.07	•	•	•	•	•	•	•	•	•	0.12	0.02	43.75
8 - 10 ft	•	0.01	24.55	0.01	•	•	•	•	•	•	•	•	•	•	•	24.57
10 - 12 ft	•	•	3.25	•	•	•	•	•	•	•	•	•	•	•	•	3.25
12 - 14 ft	•	•	0.12	•	•	•	•	•	•	•	•	•	•	•	•	0.12
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.09	0.42	97.35	1.54	•	•	•	•	•	•	•	•	•	0.44	0.17	100.00

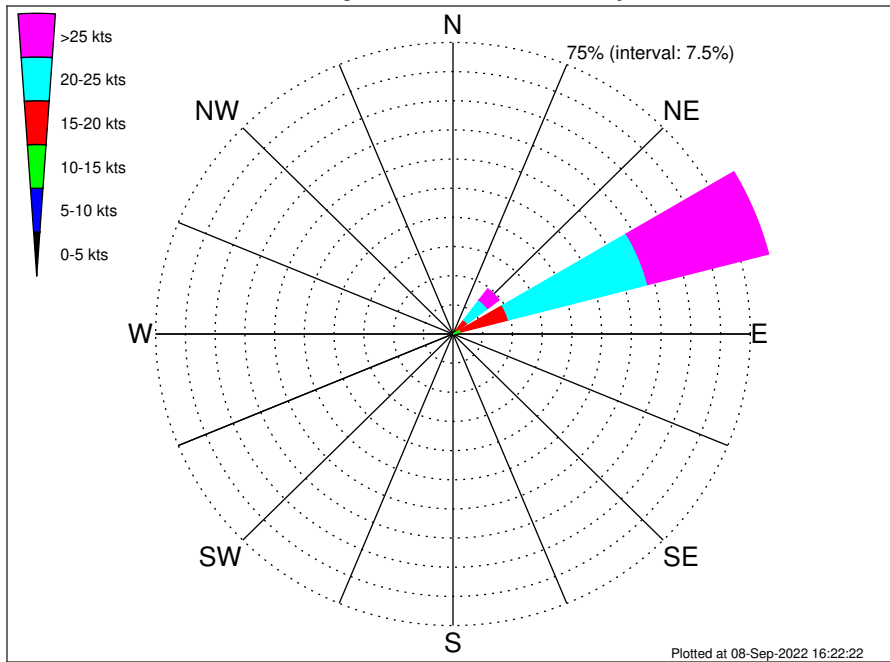
Santa Marta Colombia Climatological WavePeriod Rose for January: 1979 - 2015



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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
4 - 6 sec	0.02	0.09	13.28	0.10	.	.	.	.	.	.	.	.	.	.	0.02	13.51
6 - 8 sec	0.01	0.23	68.86	1.09	.	.	.	.	.	.	.	.	.	0.21	0.01	70.41
8 - 10 sec	0.05	0.07	15.11	0.35	.	.	.	.	.	.	.	.	.	0.22	0.13	15.94
10 - 12 sec	.	0.02	0.05	.	.	.	.	.	.	.	.	.	.	0.01	.	0.09
12 - 14 sec	.	.	0.05	.	.	.	.	.	.	.	.	.	.	.	.	0.05
14 - 16 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
18 - 20 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
22 - 24 sec	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	0.09	0.42	97.35	1.54	.	.	.	.	.	.	.	.	.	0.44	0.17	100.00

Santa Marta Colombia 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 - 5 kts	•	•	0.01	0.01	•	0.02	0.01	•	•	•	•	•	•	•	•	0.01	0.07
5 - 10 kts	0.02	0.17	0.20	0.21	0.15	0.04	•	•	•	•	•	•	•	•	•	0.01	0.79
10 - 15 kts	0.01	0.11	1.06	1.93	0.55	0.01	•	•	•	•	•	•	•	•	•	0.02	3.70
15 - 20 kts	•	0.01	3.27	12.28	1.05	•	•	•	•	•	•	•	•	•	•	•	16.61
20 - 25 kts	•	•	6.38	36.32	0.85	•	•	•	•	•	•	•	•	•	•	•	43.55
25 - 30 kts	•	•	3.28	27.93	0.17	•	•	•	•	•	•	•	•	•	•	•	31.38
30 - 35 kts	•	•	0.34	3.50	•	•	•	•	•	•	•	•	•	•	•	•	3.85
35 - 40 kts	•	•	•	0.04	•	•	•	•	•	•	•	•	•	•	•	•	0.04
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.04	0.29	14.55	82.21	2.77	0.07	0.01	•	•	•	•	•	•	•	•	0.05	100.00