

Cape Verde Islands MBES - January

Latitude: 16.00 N Longitude: 24.00 W

Weather Days

Wave Height > 6.0 ft Mean: 10.6 days Range: 4.1 - 17.1 days p50:16.5 days p75:10 days p90:7.5 days
Wave Height > 7.0 ft Mean: 6.9 days Range: 0.3 - 13.4 days p50:9 days p75:5 days p90:2 days
Wave Height > 8.0 ft Mean: 3.6 days Range: 0.0 - 8.2 days p50:5.5 days p75:1.5 days p90:1 days

Wind Speed > 15.0 knots Mean: 18.1 days Range: 11.9 - 24.4 days p50:18 days p75:14.5 days p90:10 days
Wind Speed > 20.0 knots Mean: 4.5 days Range: 0.0 - 8.9 days p50:3 days p75:1.5 days p90:0.5 days
Wind Speed > 25.0 knots Mean: 0.2 days Range: 0.0 - 0.8 days p50:0.5 days p75:0.5 days p90:0.5 days

Working Window

Wave Height < 6.0 ft	A 1 day or longer window will statistically occur 2.6 times per month A 2 day or longer window will statistically occur 1.7 times per month A 3 day or longer window will statistically occur 1.4 times per month
Wave Height < 7.0 ft	A 1 day or longer window will statistically occur 2.8 times per month A 2 day or longer window will statistically occur 2.3 times per month A 3 day or longer window will statistically occur 1.8 times per month
Wave Height < 8.0 ft	A 1 day or longer window will statistically occur 2.6 times per month A 2 day or longer window will statistically occur 2.3 times per month A 3 day or longer window will statistically occur 2.0 times per month

Waves

Mean Height: 6 - 8 ft
The wave heights will occasionally reach 10 - 12 ft, but rarely higher.
Mean Period: 10 - 12 sec
The wave periods will occasionally reach 22 - 24 sec, but rarely longer.
Principle Direction, from: NNE
WindSea/Swell: 22% / 78%

Winds

Mean Speed: 15 - 20 kts
The winds will occasionally reach 25 - 30 kts, but rarely greater.
Principle Direction, from: NE

Currents

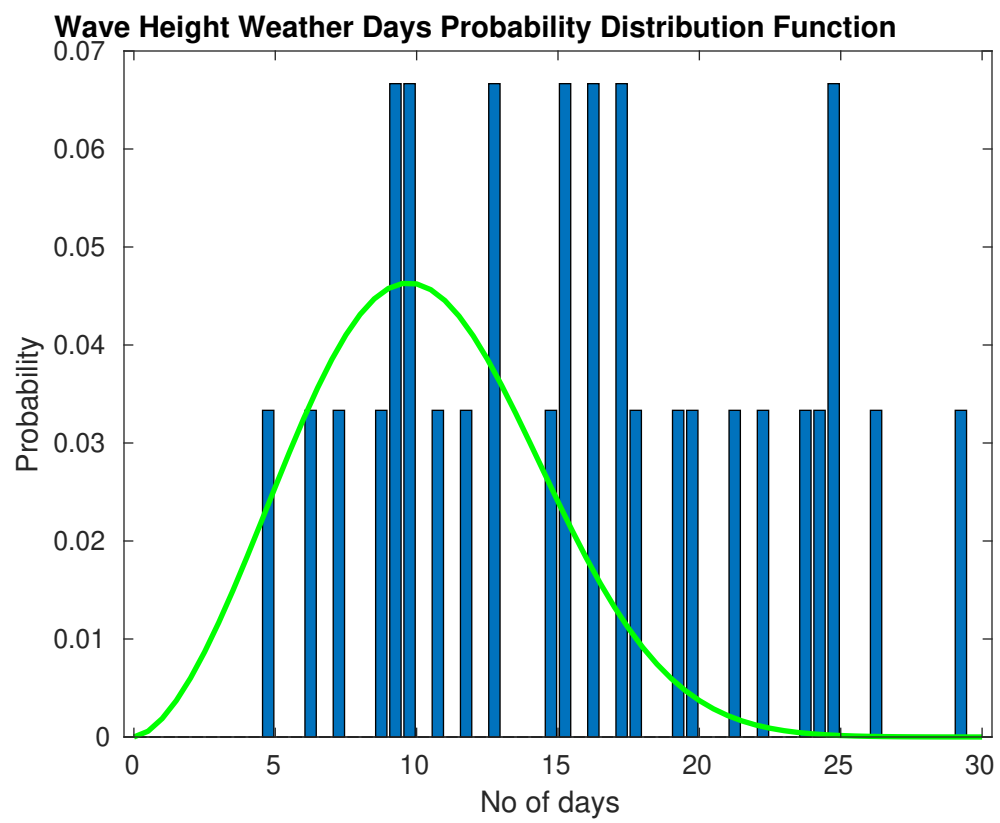
Mean Speed: 0.50-0.75 kts
The currents will occasionally reach 1.00-1.25 kts, but rarely greater.
Principle Direction, to: WSW

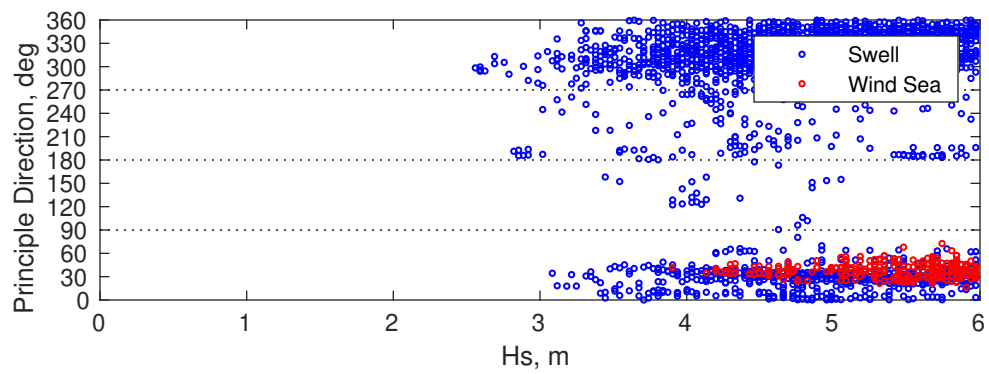
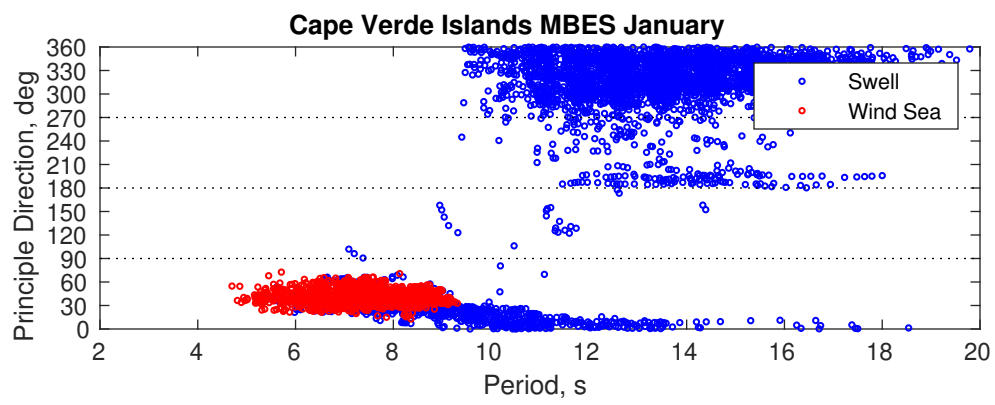
Weather Days

Current Speed > 1.0 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 days p75:1 days p90:1 days
Current Speed > 1.5 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 days p75:1 days p90:1 days
Current Speed > 2.0 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 days p75:1 days p90:1 days

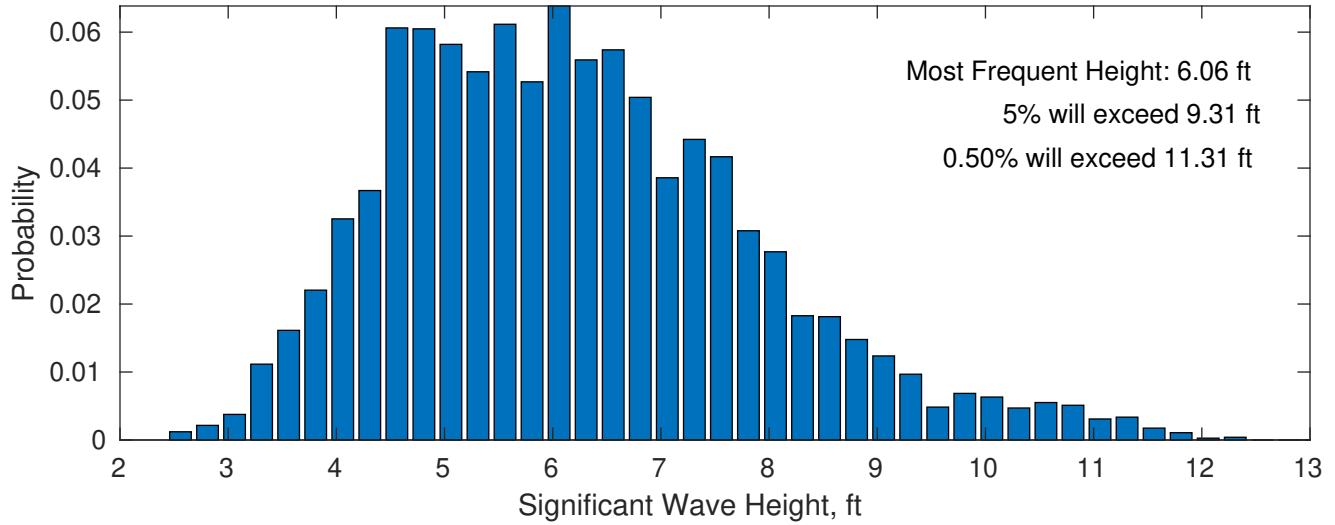
Severe Storms

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

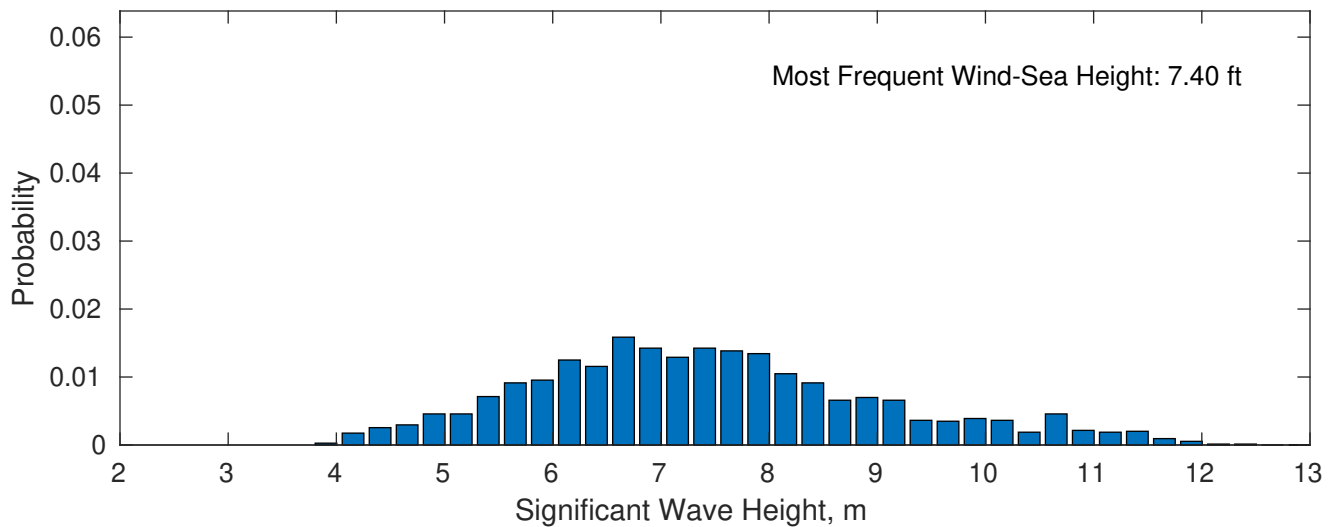




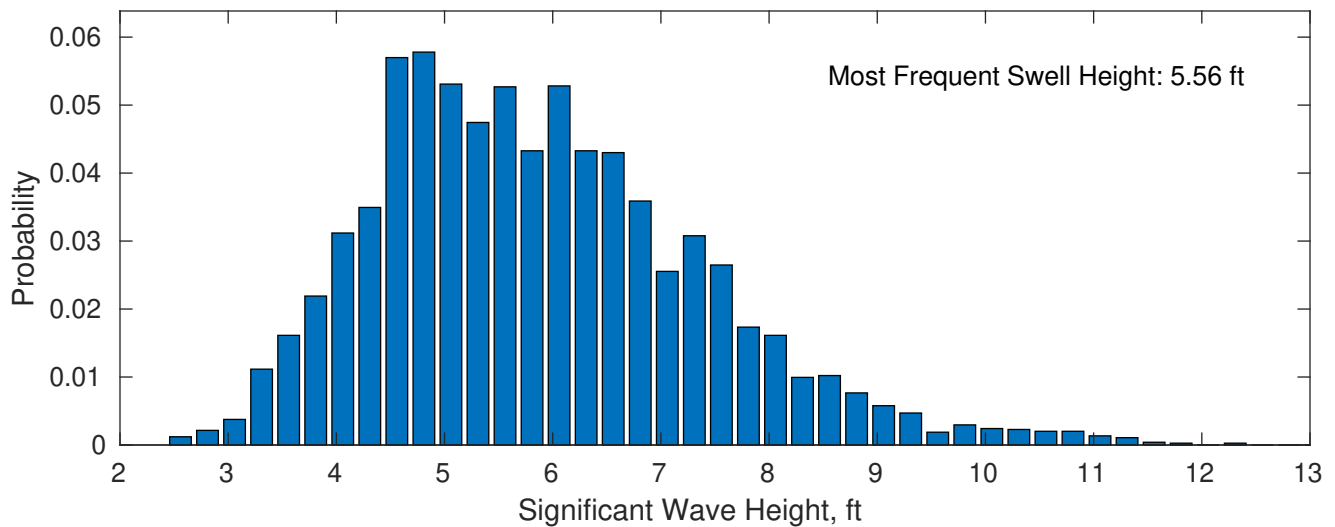
January Wave Height PDF: 1979 - 2015



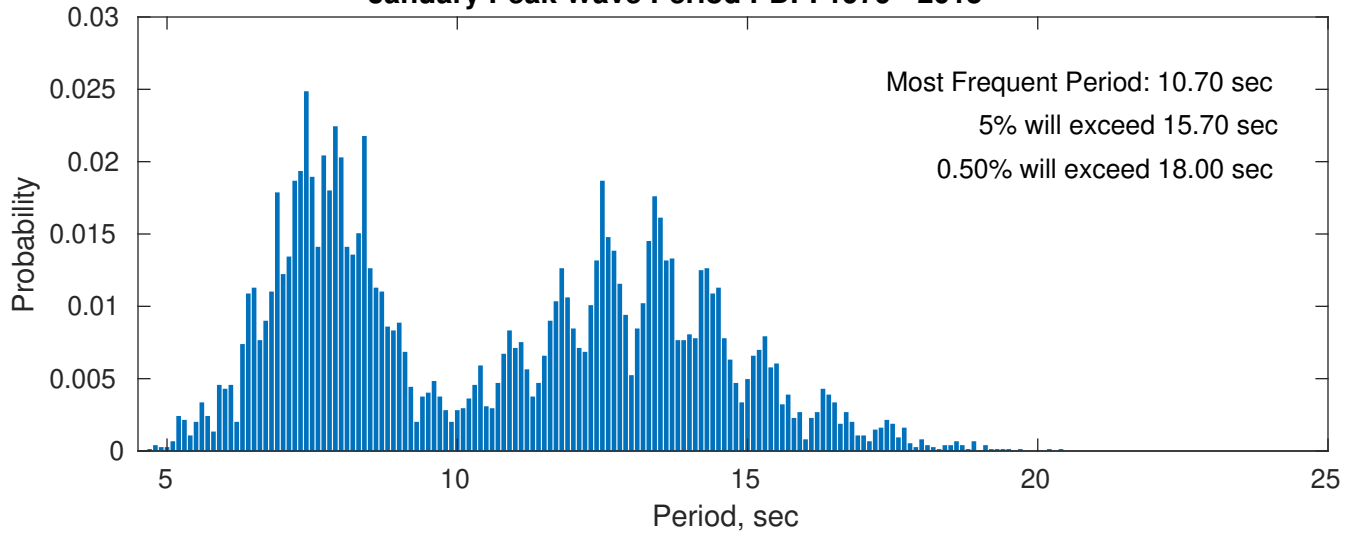
Wind-Sea: 21.98%



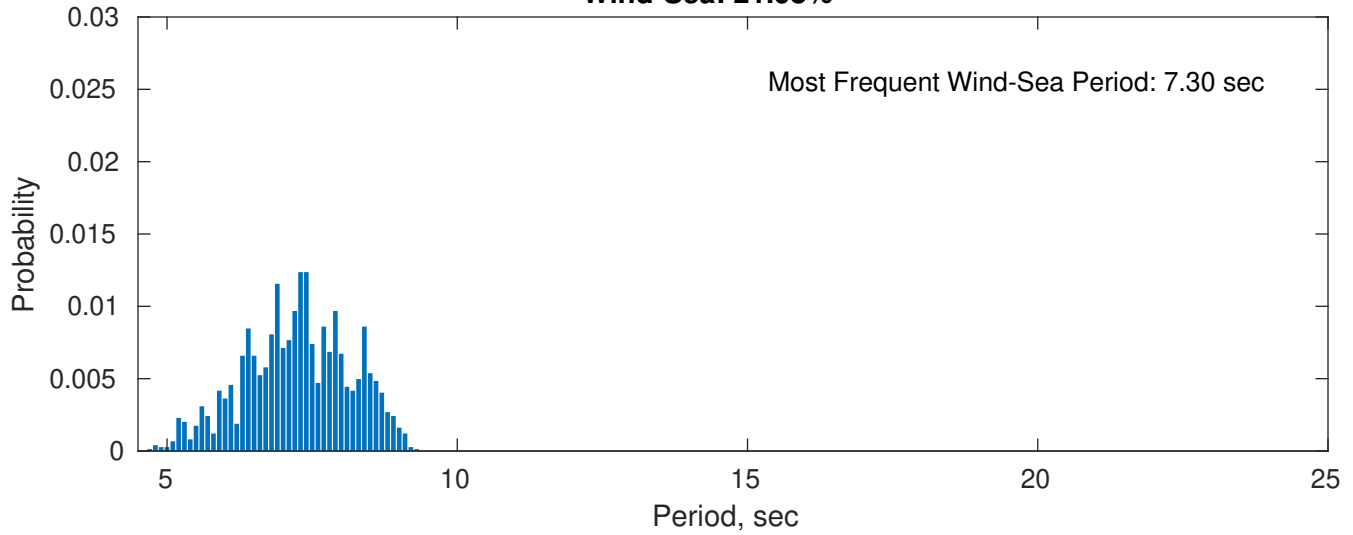
Swell: 78.02%



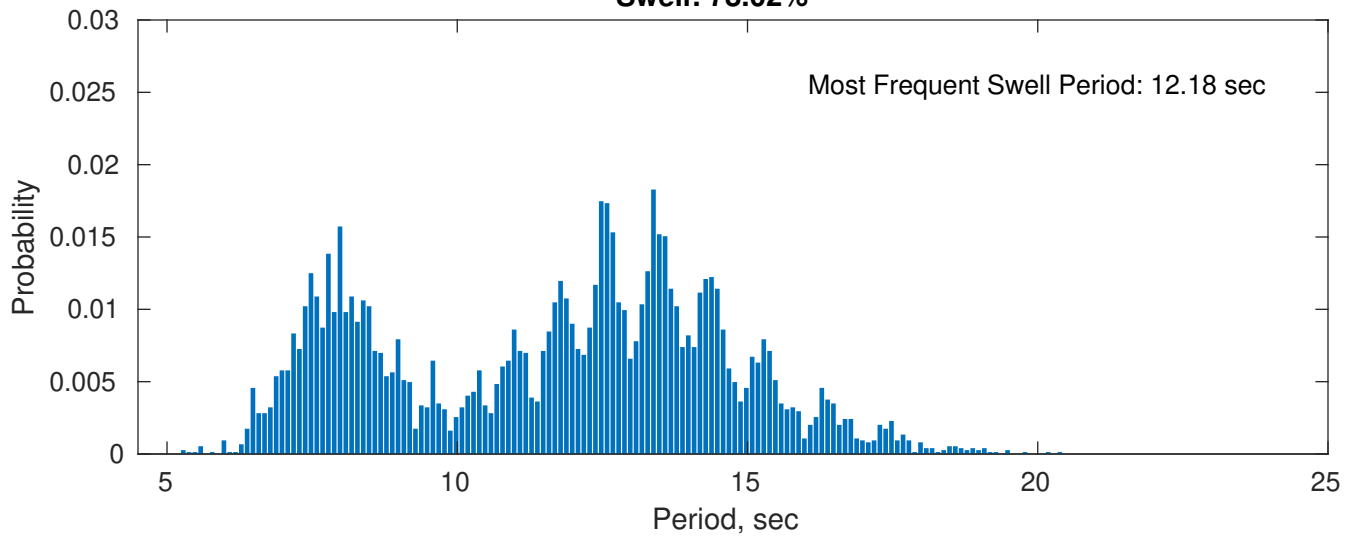
January Peak Wave Period PDF: 1979 - 2015



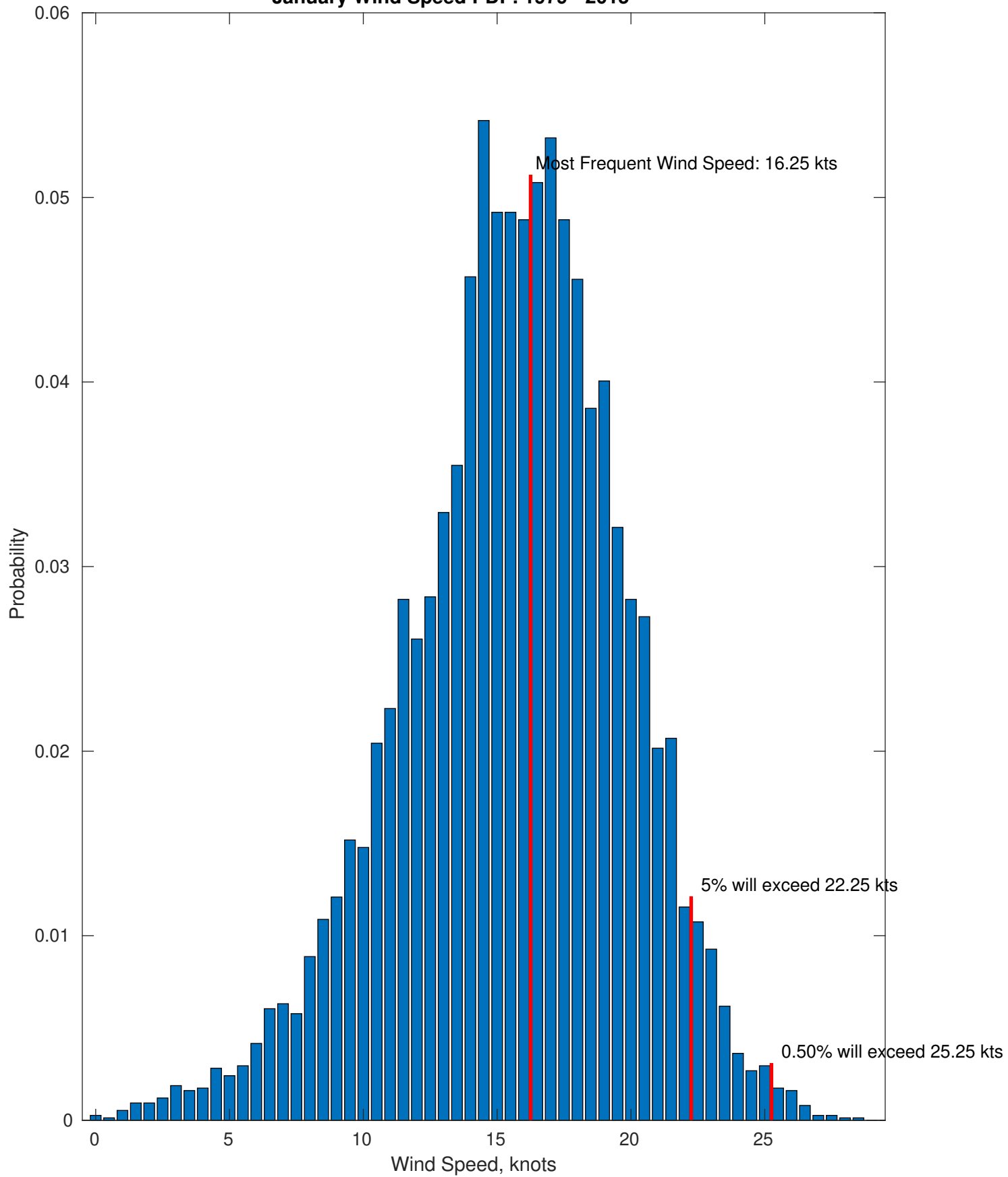
Wind-Sea: 21.98%



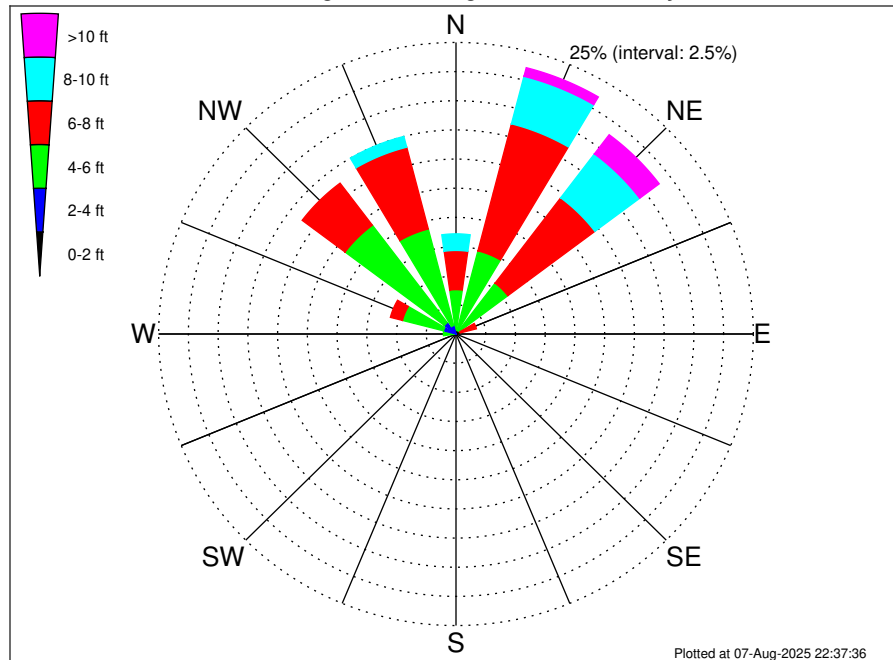
Swell: 78.02%



January Wind Speed PDF: 1979 - 2015



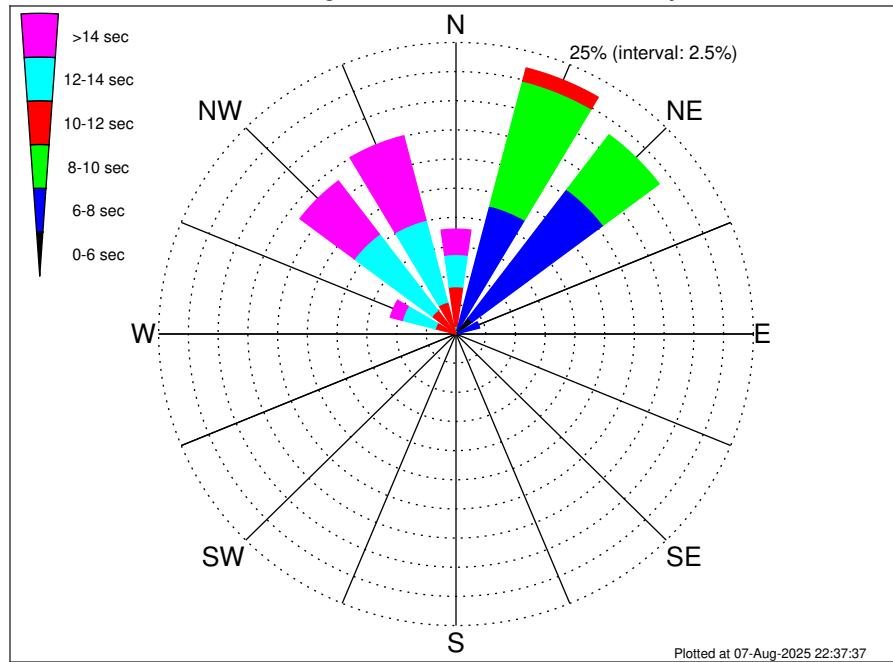
Cape Verde Islands MBES Climatological WaveHeight Rose for January: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 ft	0.42	0.34	0.34	•	•	0.03	0.03	0.03	0.16	0.12	0.05	0.09	0.17	1.09	1.22	0.75	4.84
4 - 6 ft	3.39	7.03	5.12	0.38	0.04	0.04	0.09	0.07	0.48	0.44	0.20	0.30	0.89	3.56	10.46	8.55	41.03
6 - 8 ft	3.36	11.25	9.17	1.40	•	•	•	•	0.12	0.40	0.09	0.16	0.17	1.05	4.52	7.24	38.94
8 - 10 ft	1.42	4.21	4.72	0.35	•	•	•	•	•	0.01	•	•	•	•	0.23	0.95	11.90
10 - 12 ft	0.38	0.77	2.02	0.01	•	•	•	•	•	•	•	•	•	•	•	0.05	3.23
12 - 14 ft	0.03	•	0.04	•	•	•	•	•	•	•	•	•	•	•	•	•	0.07
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	8.99	23.59	21.40	2.14	0.04	0.07	0.12	0.09	0.77	0.98	0.35	0.55	1.24	5.70	16.42	17.55	100.00

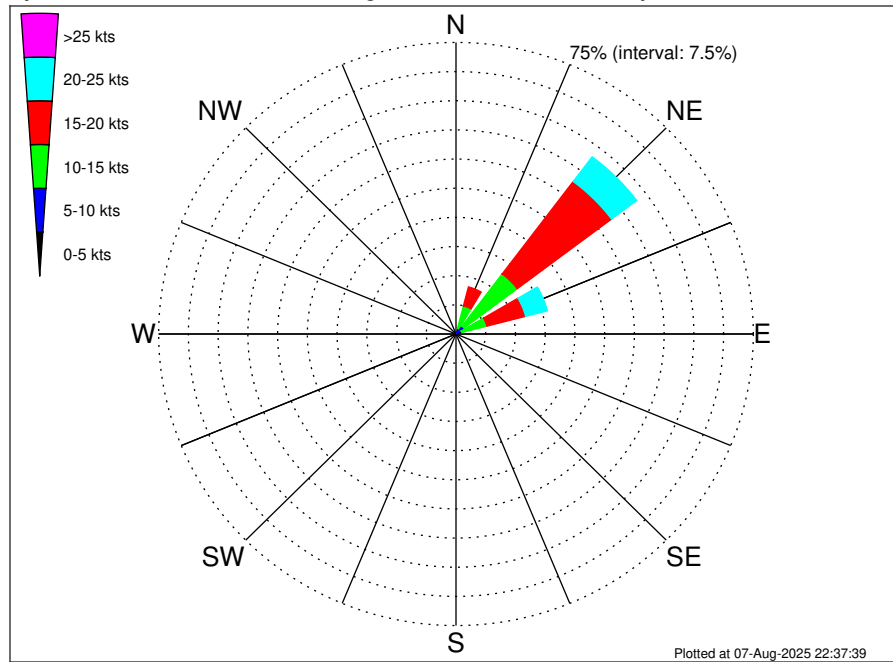
Cape Verde Islands MBES Climatological WavePeriod Rose for January: 1979 - 2015



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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4 - 6 sec	•	0.32	1.69	0.09	•	•	•	•	•	•	•	•	•	•	•	•	2.11
6 - 8 sec	0.01	11.02	13.82	1.96	0.03	0.01	•	•	•	•	•	•	•	•	•	•	26.85
8 - 10 sec	0.66	11.06	5.87	0.07	•	0.01	0.03	0.03	•	•	•	0.01	0.03	0.04	0.04	0.16	18.01
10 - 12 sec	3.39	1.16	0.01	0.01	0.01	0.04	0.09	0.04	0.08	0.04	0.11	0.11	0.36	1.76	2.49	2.66	12.37
12 - 14 sec	2.77	0.03	•	•	•	•	•	•	0.31	0.39	0.16	0.31	0.60	2.86	8.19	7.26	22.88
14 - 16 sec	1.36	•	•	•	•	•	•	0.03	0.31	0.43	0.08	0.11	0.17	0.98	4.57	5.46	13.49
18 - 20 sec	0.63	•	•	•	•	•	•	•	0.07	0.12	•	0.01	0.07	0.05	1.08	1.71	3.74
22 - 24 sec	0.17	•	•	•	•	•	•	•	•	•	•	•	•	•	0.07	0.31	0.55
Total	8.99	23.59	21.40	2.14	0.04	0.07	0.12	0.09	0.77	0.98	0.35	0.55	1.24	5.70	16.42	17.55	100.00

Cape Verde Islands MBES 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	0.04
0 - 5 kts	0.07	0.11	0.17	0.11	0.04	0.04	0.07	0.05	0.01	0.07	0.03	0.03	0.01	0.05	0.11	0.20	1.17
5 - 10 kts	0.86	1.47	2.34	1.40	0.58	0.07	•	•	•	0.05	0.03	0.04	0.01	0.07	0.23	0.34	7.47
10 - 15 kts	0.86	5.90	16.84	6.56	0.44	0.01	•	•	•	•	0.03	•	0.01	0.01	0.05	0.12	30.85
15 - 20 kts	0.07	5.03	29.78	10.08	0.51	0.03	•	•	•	•	0.08	0.05	•	•	•	•	45.63
20 - 25 kts	•	0.26	7.93	5.66	0.19	0.01	•	•	•	•	•	•	•	•	•	•	14.05
25 - 30 kts	•	•	0.39	0.39	0.01	•	•	•	•	•	•	•	•	•	•	•	0.79
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	1.85	12.77	57.46	24.19	1.77	0.16	0.07	0.05	0.01	0.13	0.16	0.12	0.04	0.13	0.39	0.67	100.00