

Cape Verde Islands MBES - December

Latitude: 16.00 N Longitude: 24.00 W

Weather Days

Wave Height > 6.0 ft Mean: 7.8 days Range: 2.8 - 12.8 days p50:14 days p75:9 days p90:6 days
Wave Height > 7.0 ft Mean: 3.9 days Range: 0.1 - 7.6 days p50:7 days p75:4 days p90:2.5 days
Wave Height > 8.0 ft Mean: 1.7 days Range: 0.0 - 4.5 days p50:4.5 days p75:2.5 days p90:1 days

Wind Speed > 15.0 knots Mean: 15.4 days Range: 10.7 - 20.1 days p50:17.5 days p75:11 days p90:9 days
Wind Speed > 20.0 knots Mean: 2.5 days Range: 0.4 - 4.6 days p50:2.5 days p75:1 days p90:0.5 days
Wind Speed > 25.0 knots Mean: 0.1 days Range: 0.0 - 0.3 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 3.3 times per month A 2 day or longer window will statistically occur 2.5 times per month A 3 day or longer window will statistically occur 2.0 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 1.9 times per month
Wave Height < 8.0 ft	A 1 day or longer window will statistically occur 2.3 times per month A 2 day or longer window will statistically occur 2.0 times per month A 3 day or longer window will statistically occur 1.8 times per month

Waves

Mean Height: 4 - 6 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: 15% / 85%

Winds

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

Currents

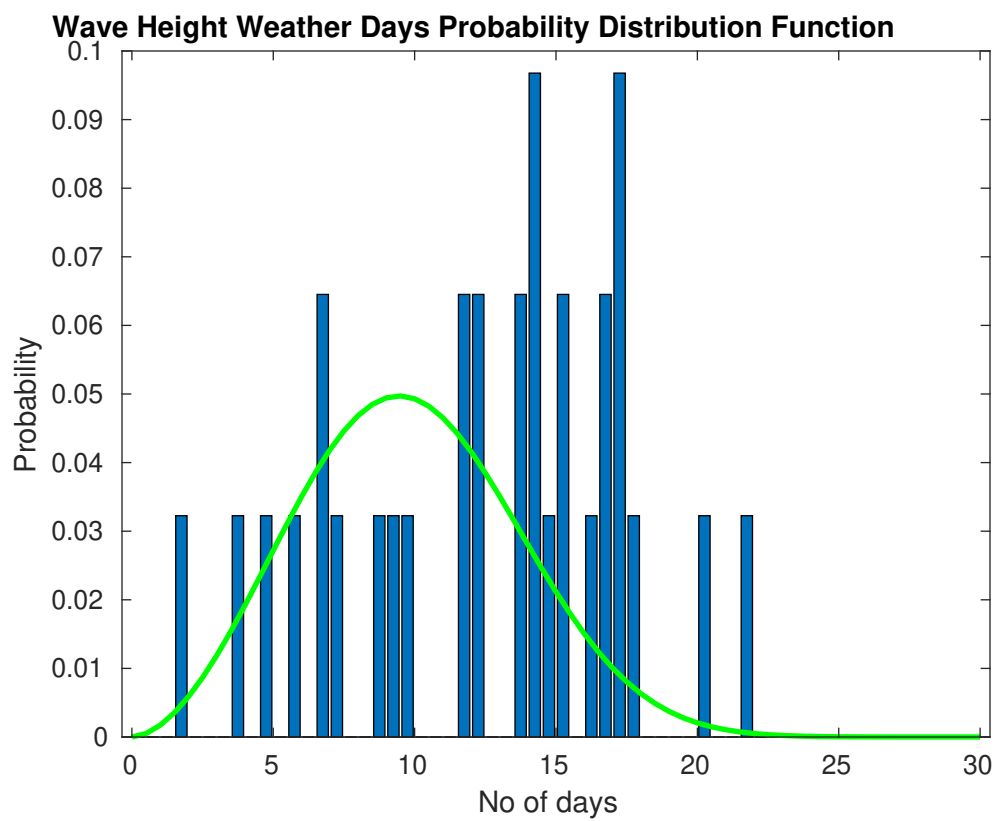
Mean Speed: 0.25-0.50 kts
The currents will occasionally reach 1.25-1.50 kts, but rarely greater.
Principle Direction, to: WSW

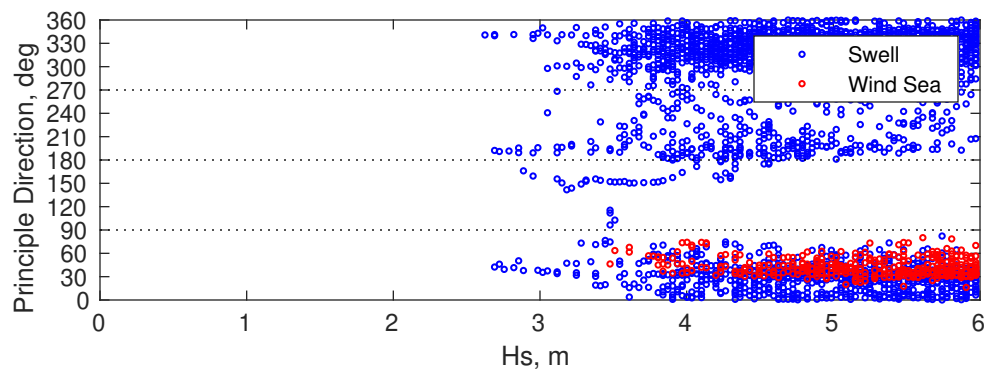
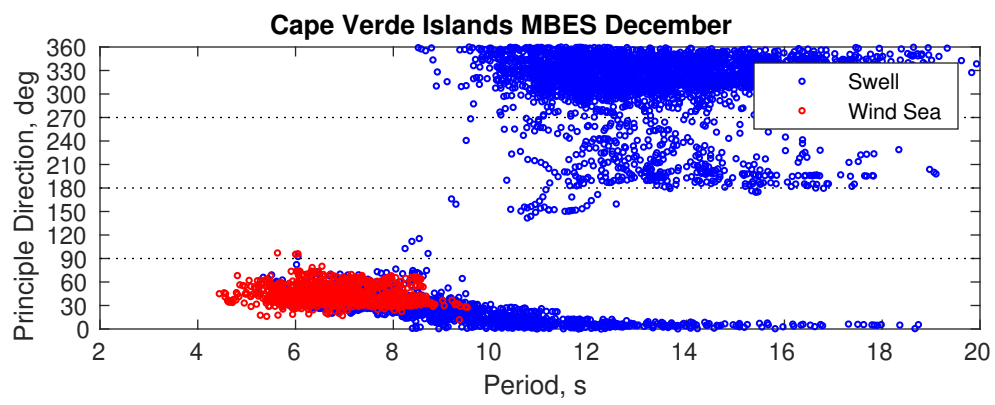
Weather Days

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

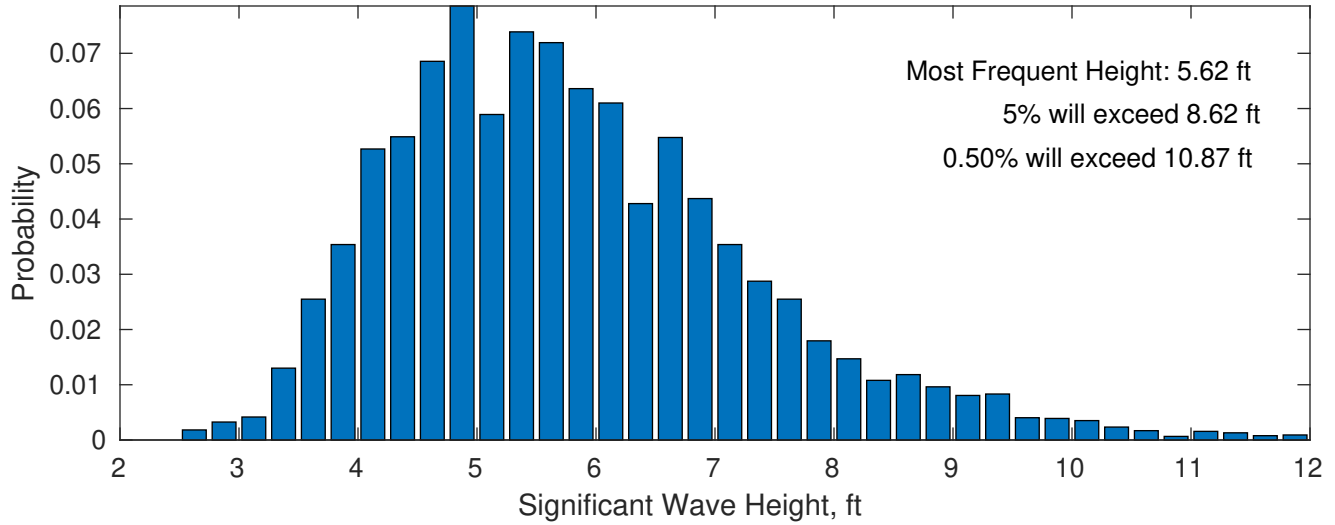
Severe Storms

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

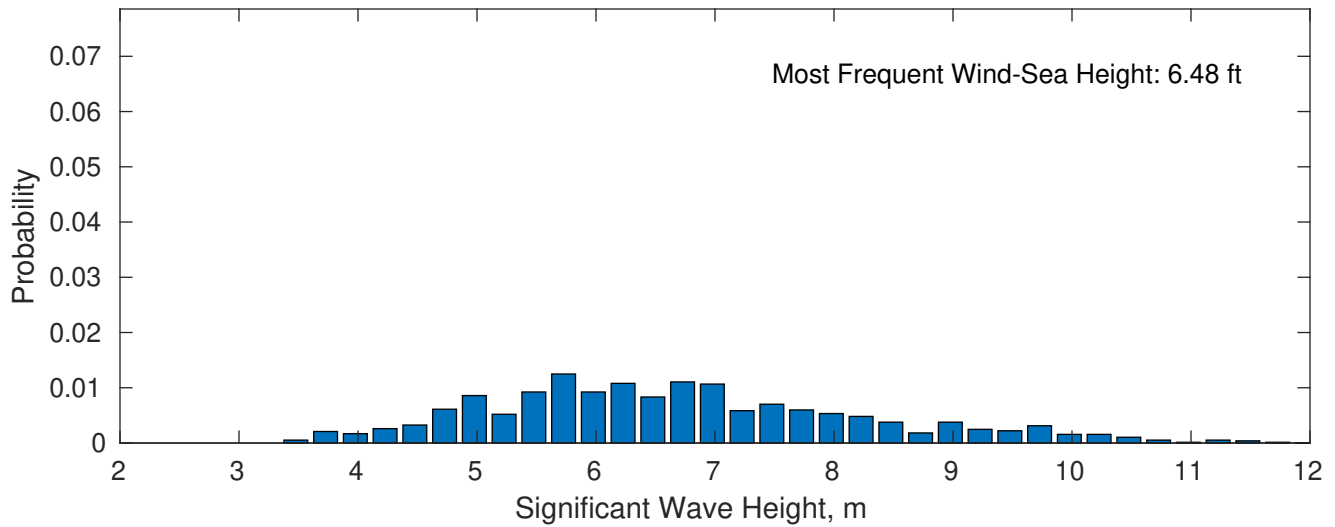




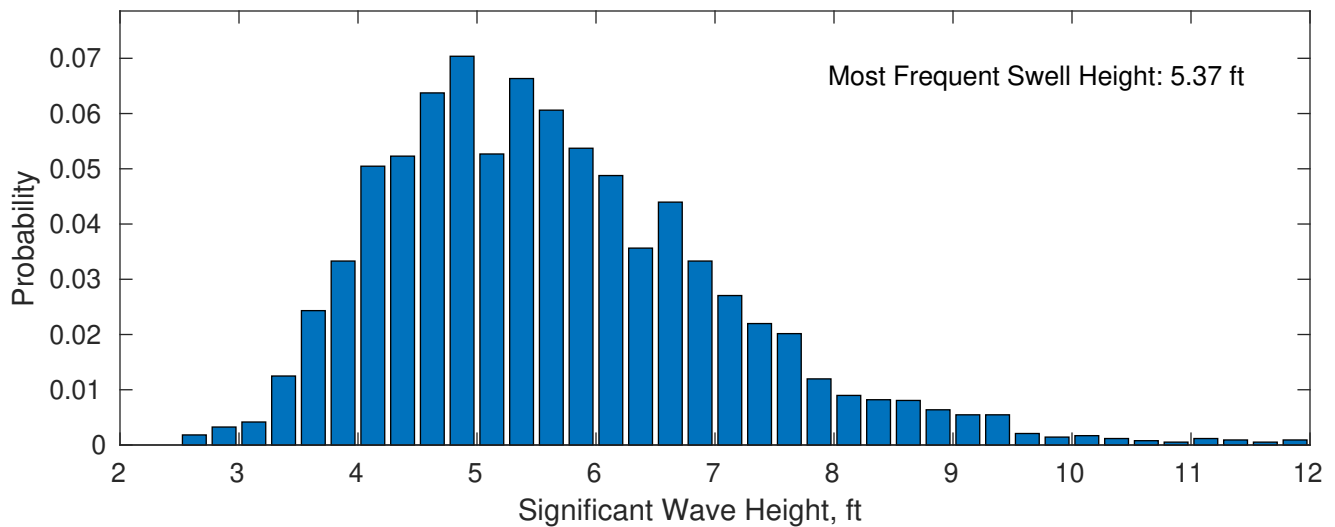
December Wave Height PDF: 1979 - 2015



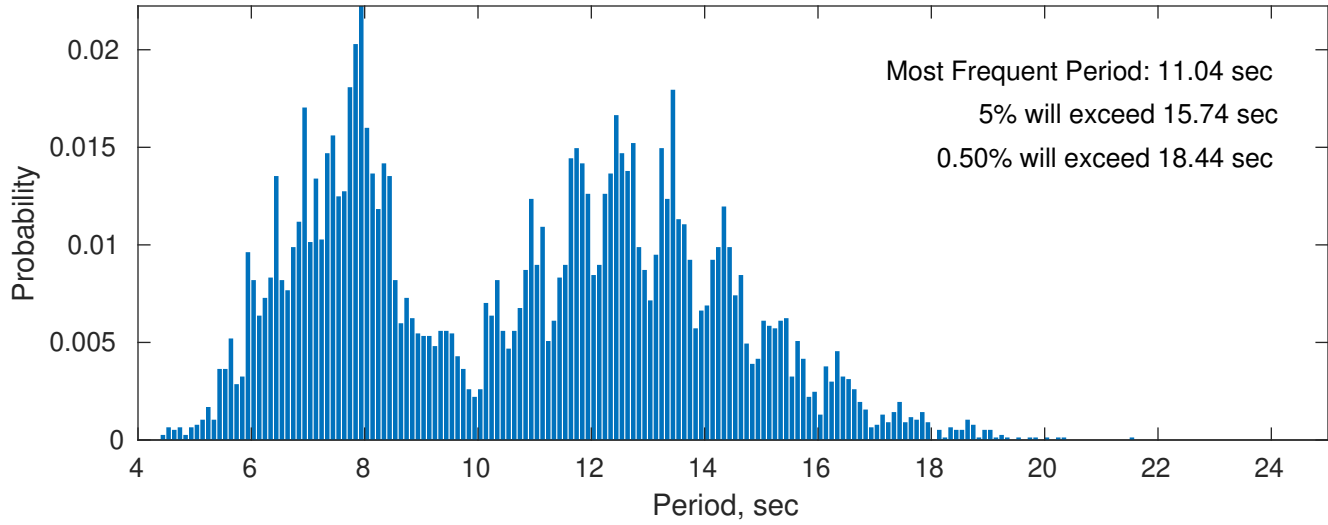
Wind-Sea: 15.39%



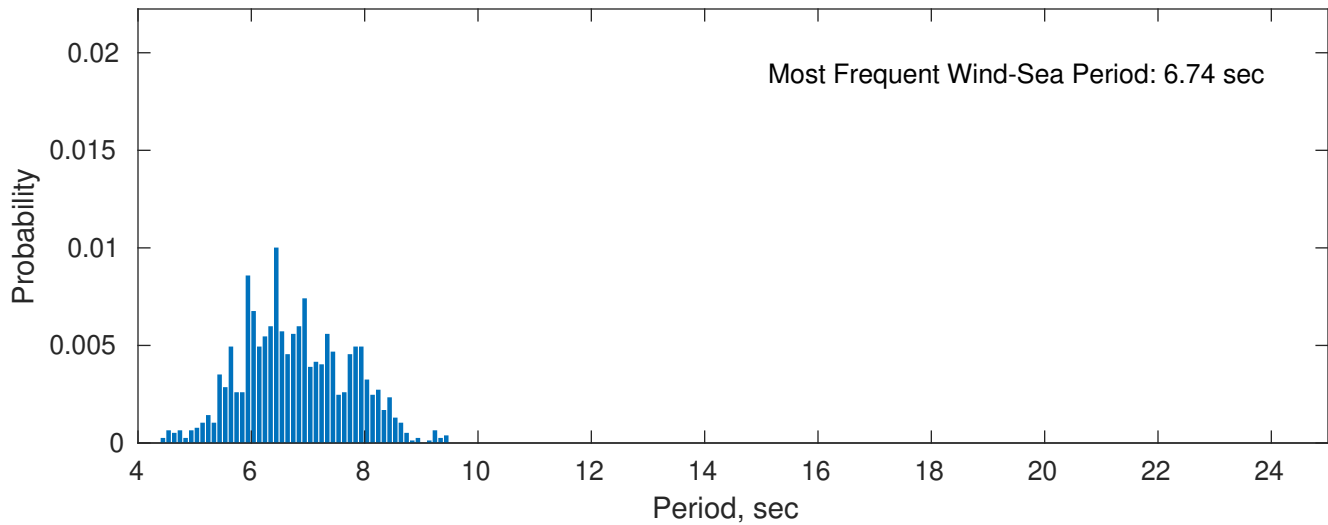
Swell: 84.61%



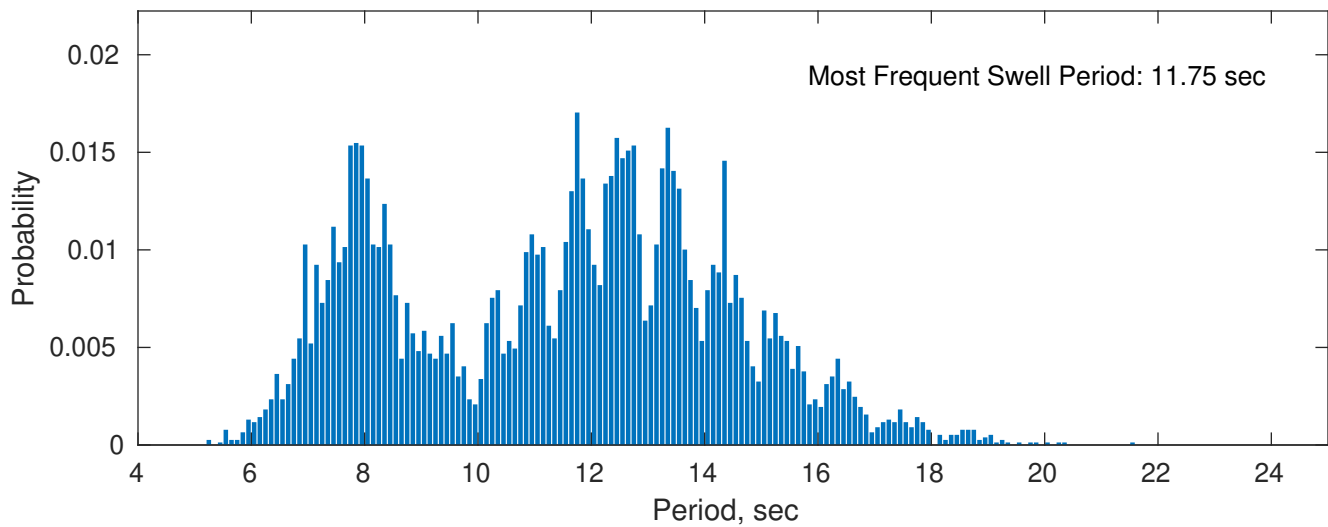
December Peak Wave Period PDF: 1979 - 2015



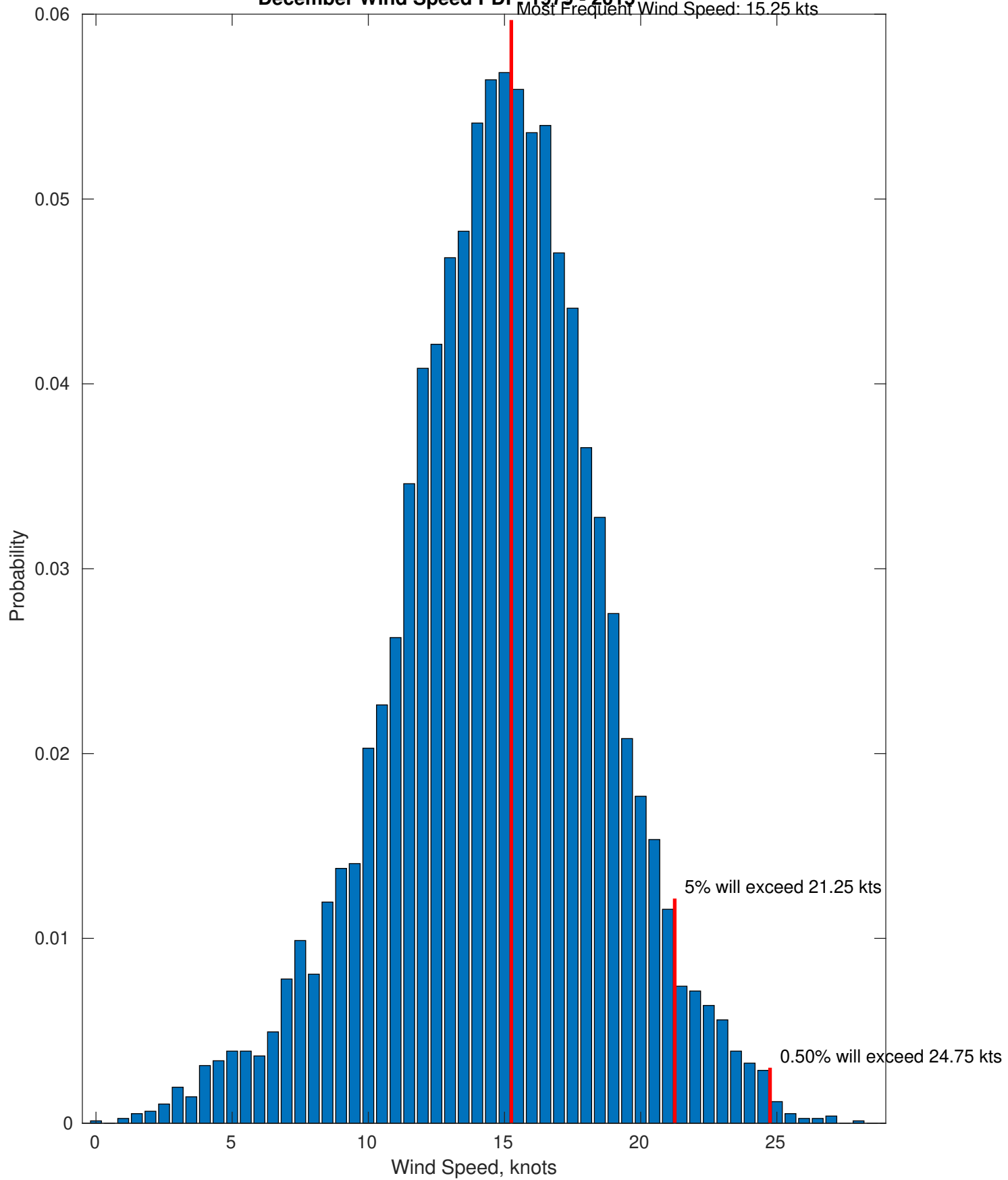
Wind-Sea: 15.39%



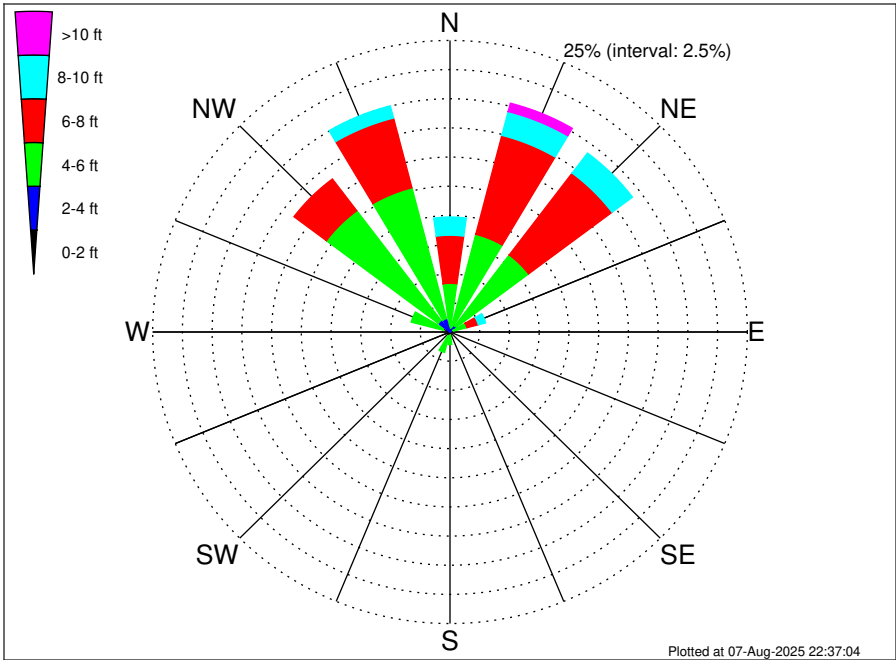
Swell: 84.61%



December Wind Speed PDF: 1979 - 2015



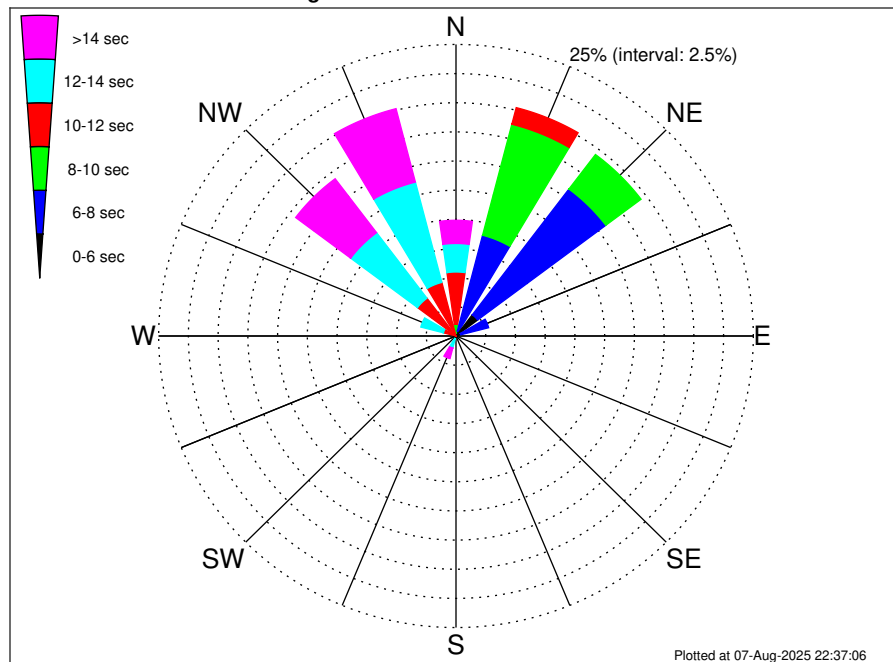
Cape Verde Islands MBES Climatological WaveHeight Rose for December: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1 - 2 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2 - 4 ft	0.34	0.39	0.66	0.30	0.01	0.04	0.03	0.27	0.29	0.35	0.14	0.17	0.20	0.62	1.24	1.18	6.23
4 - 6 ft	3.84	8.26	7.61	1.17	0.03	.	.	0.08	0.79	1.46	0.61	0.51	0.60	2.74	11.78	11.59	51.07
6 - 8 ft	4.12	8.77	8.79	0.99	0.05	.	.	0.01	.	0.20	0.27	0.14	0.17	0.23	3.41	6.18	33.34
8 - 10 ft	1.56	2.11	2.15	0.64	.	.	.	.	.	.	0.01	.	.	.	0.43	1.08	7.97
10 - 12 ft	0.05	0.74	0.27	0.18	.	.	.	.	.	.	.	.	.	.	0.03	0.10	1.38
12 - 14 ft	0.01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.01
14 - 16 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16 - 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
> 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	9.92	20.27	19.48	3.28	0.09	0.04	0.03	0.36	1.08	2.00	1.04	0.82	0.96	3.60	16.88	20.14	100.00

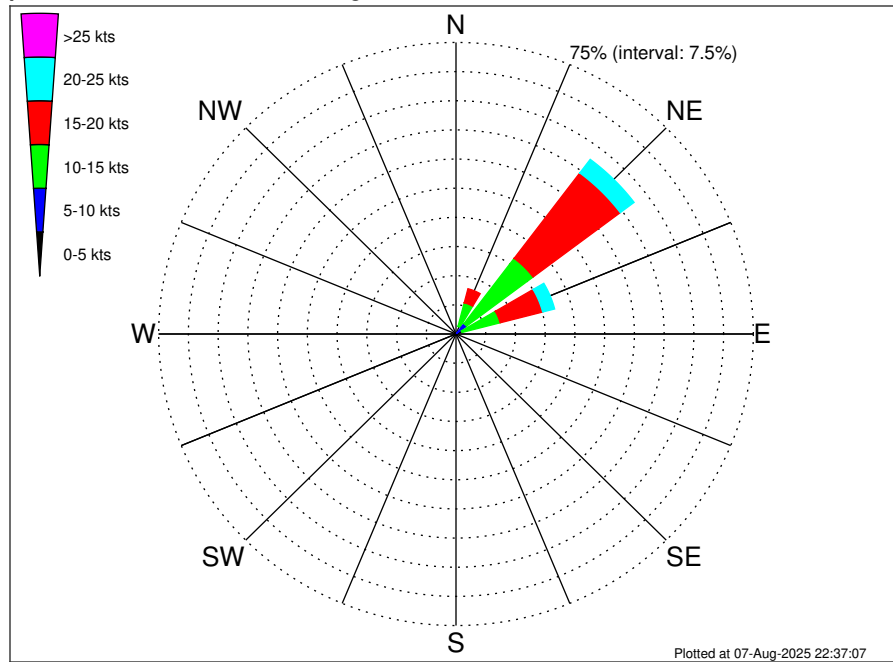
Cape Verde Islands MBES Climatological WavePeriod Rose for December: 1979 - 2015



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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4 - 6 sec	•	0.46	2.28	0.42	0.03	•	•	•	•	•	•	•	•	•	•	•	3.17
6 - 8 sec	•	8.47	13.50	2.42	0.05	•	•	•	•	•	•	•	•	•	•	•	24.44
8 - 10 sec	1.00	9.83	3.71	0.44	0.01	0.04	•	0.03	•	•	•	0.01	0.01	0.01	0.12	0.16	15.37
10 - 12 sec	4.49	1.47	•	•	•	•	0.03	0.31	0.16	0.23	0.12	0.23	0.25	1.08	3.94	4.59	16.90
12 - 14 sec	2.45	0.04	•	•	•	•	•	0.03	0.36	0.83	0.59	0.46	0.44	1.96	7.04	8.88	23.07
14 - 16 sec	1.24	•	•	•	•	•	•	•	0.38	0.65	0.20	0.08	0.23	0.49	4.55	4.73	12.55
18 - 20 sec	0.53	•	•	•	•	•	•	•	0.18	0.25	0.13	0.04	0.03	0.05	1.04	1.55	3.80
22 - 24 sec	0.22	•	•	•	•	•	•	•	•	0.04	0.01	•	•	•	0.20	0.22	0.69
Total	9.92	20.27	19.48	3.28	0.09	0.04	0.03	0.36	1.08	2.00	1.04	0.82	0.96	3.60	16.88	20.14	100.00

Cape Verde Islands MBES 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 - 5 kts	0.08	0.21	0.30	0.20	0.08	0.09	0.07	0.01	0.01	•	0.01	•	0.03	0.01	0.04	0.10	1.24
5 - 10 kts	0.79	1.81	3.04	1.40	0.56	0.13	0.03	0.04	•	•	•	•	0.03	0.03	0.05	0.29	8.19
10 - 15 kts	0.65	6.28	21.02	9.90	0.96	0.13	0.01	•	0.01	•	•	0.05	0.07	0.03	0.04	0.09	39.24
15 - 20 kts	0.22	3.73	27.52	11.08	0.30	0.07	•	•	•	•	•	•	•	•	•	•	42.92
20 - 25 kts	•	0.53	4.37	3.12	0.08	0.01	•	•	•	•	•	•	•	•	•	•	8.12
25 - 30 kts	•	0.04	0.03	0.20	0.01	•	•	•	•	•	•	•	•	•	•	•	0.27
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	1.74	12.60	56.28	25.90	1.99	0.43	0.10	0.05	0.03	•	0.01	0.05	0.12	0.07	0.13	0.49	100.00