

Aruba EBS - March

Latitude: 13.06 N Longitude: 69.89 W

Weather Days

Wave Height > 6.6 ft Mean: 13.3 days Range: 8.6 - 18.0 days p50:15 days p75:10 days p90:6.5 days
Wave Height > 8.2 ft Mean: 3.6 days Range: 1.0 - 6.1 days p50:3 days p75:2.5 days p90:1.5 days
Wave Height > 10.0 ft Mean: 0.6 days Range: 0.0 - 1.5 days p50:30 days p75:2 days p90:1 days

Wind Speed > 20.0 knots Mean: 6.6 days Range: 3.5 - 9.7 days p50:7 days p75:5 days p90:2.5 days
Wind Speed > 21.0 knots Mean: 4.0 days Range: 1.8 - 6.2 days p50:4 days p75:2.5 days p90:2 days
Wind Speed > 25.0 knots Mean: 0.3 days Range: 0.0 - 0.9 days p50:0.5 days p75:0.5 days p90:0.5 days

Working Window

Wave Height < 6.6 ft	A 1 day or longer window will statistically occur 2.7 times per month A 2 day or longer window will statistically occur 2.2 times per month A 3 day or longer window will statistically occur 1.7 times per month
Wave Height < 8.2 ft	A 1 day or longer window will statistically occur 2.4 times per month A 2 day or longer window will statistically occur 1.9 times per month A 3 day or longer window will statistically occur 1.6 times per month
Wave Height < 10.0 ft	A 1 day or longer window will statistically occur 1.1 times per month A 2 day or longer window will statistically occur 1.1 times per month A 3 day or longer window will statistically occur 1.1 times per month

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 12 - 14 sec, but rarely longer.
Principle Direction, from: E
WindSea/Swell: 69% / 31%

Winds

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

Currents

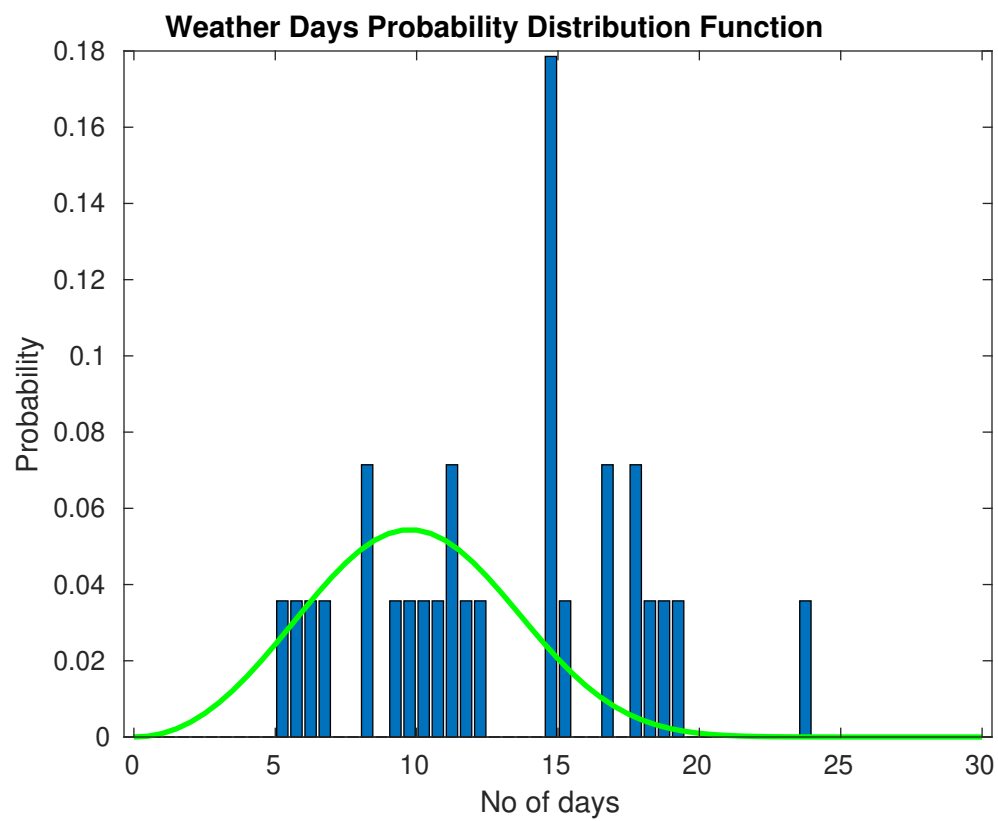
Mean Speed: 1.00-1.25 kts
The currents will occasionally reach 2.25-2.50 kts, but rarely greater.
Principle Direction, to: WNW

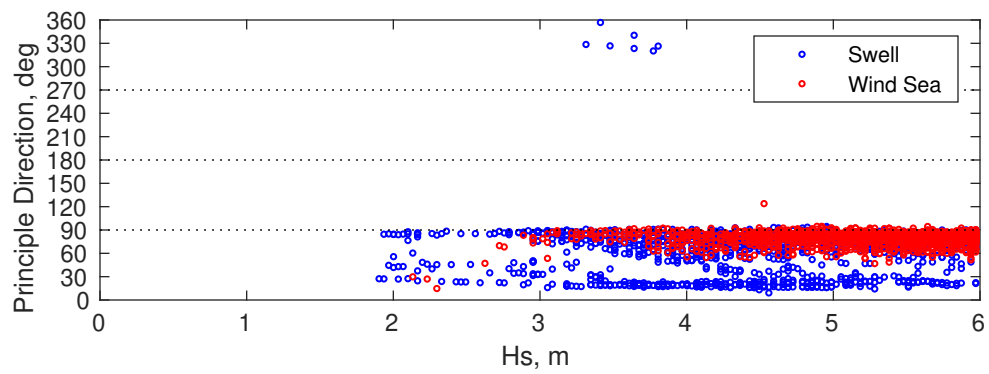
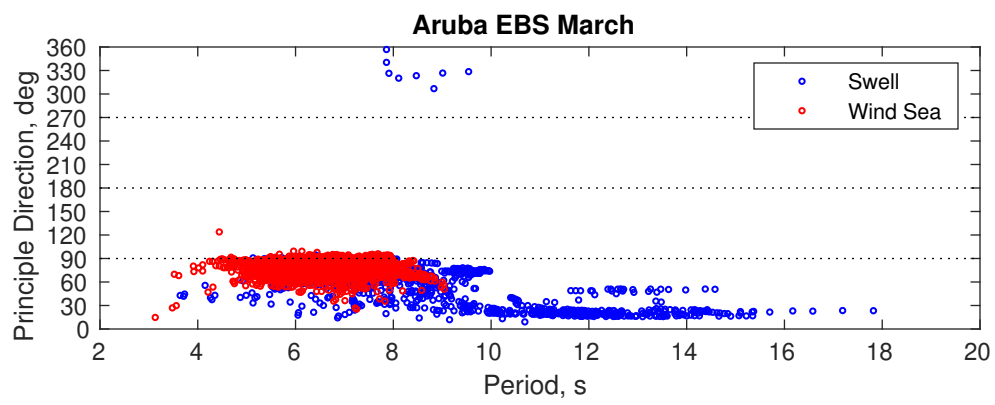
Weather Days

Current Speed > 1.0 knots Mean: 15.9 days Range: 6.9 - 24.8 days p50:19 days p75:10 days p90:2 days
Current Speed > 1.5 knots Mean: 2.9 days Range: 0.0 - 7.5 days p50:1 days p75:1 days p90:1 days
Current Speed > 2.0 knots Mean: 0.4 days Range: 0.0 - 1.5 days p50:1 days p75:1 days p90:1 days

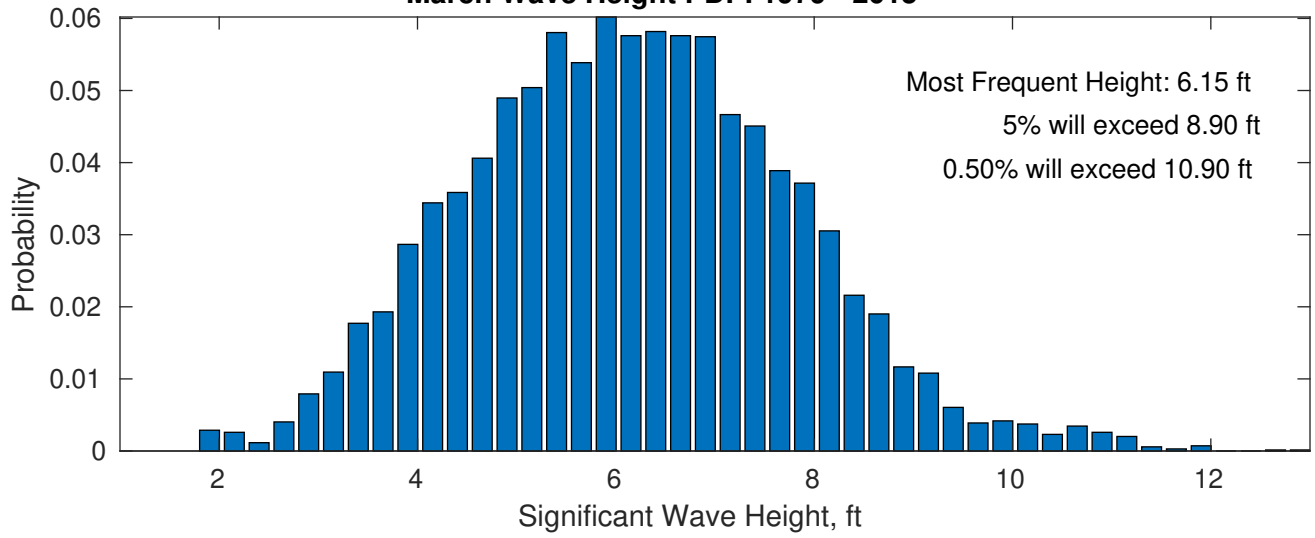
Severe Storms

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

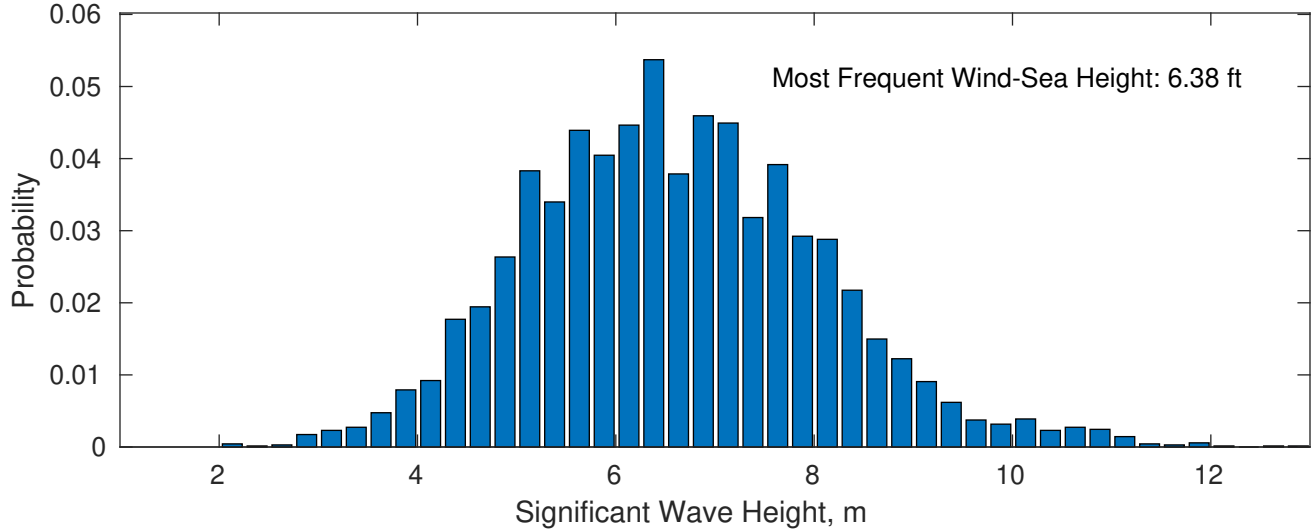




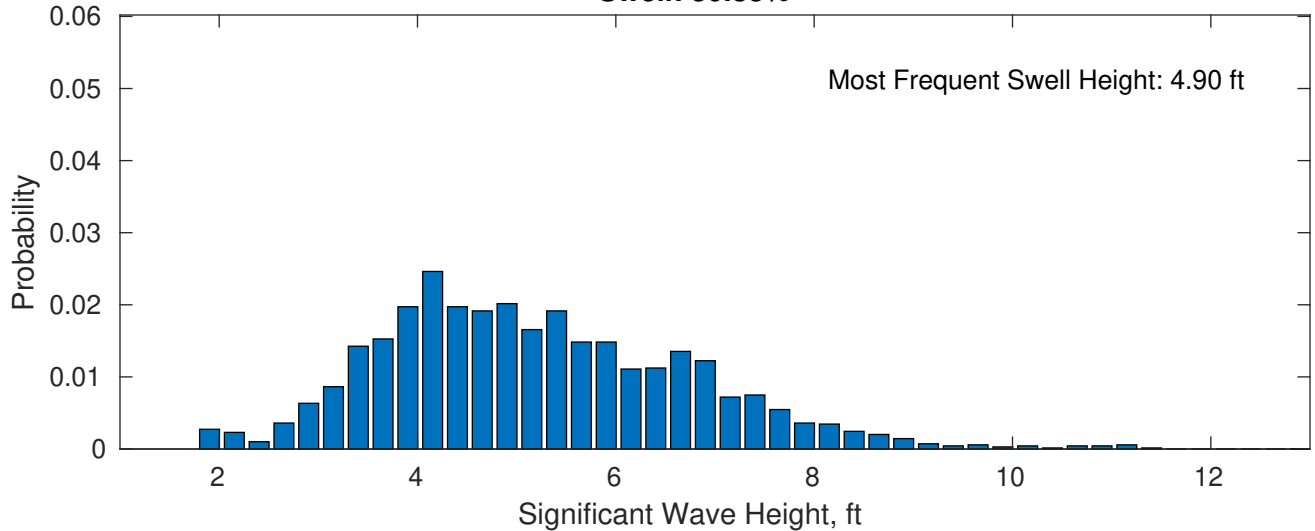
March Wave Height PDF: 1979 - 2015



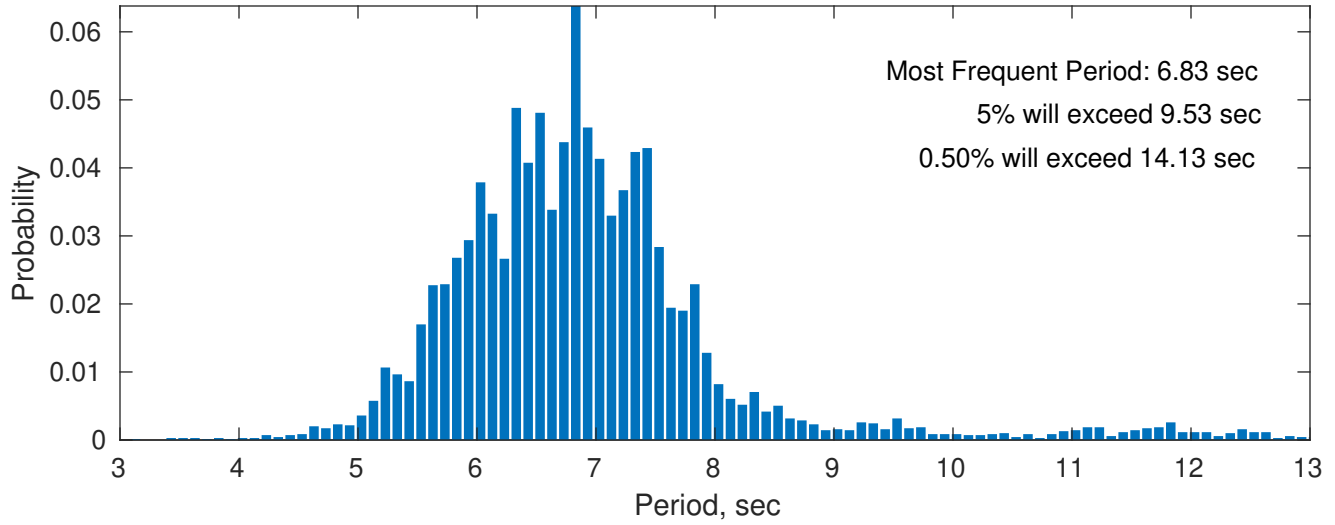
Wind-Sea: 69.17%



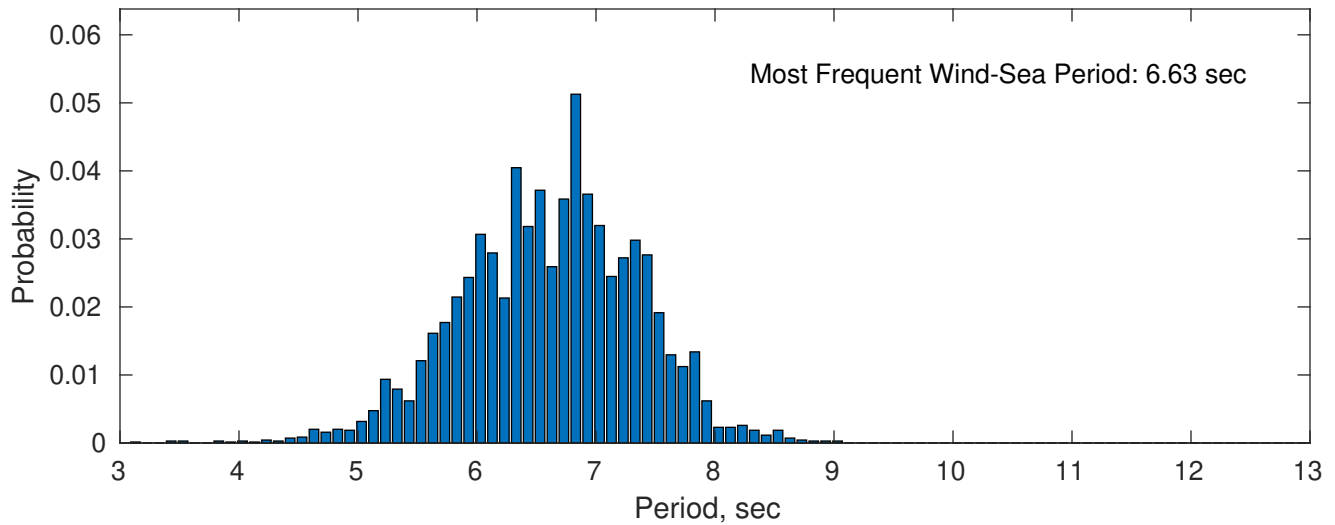
Swell: 30.83%



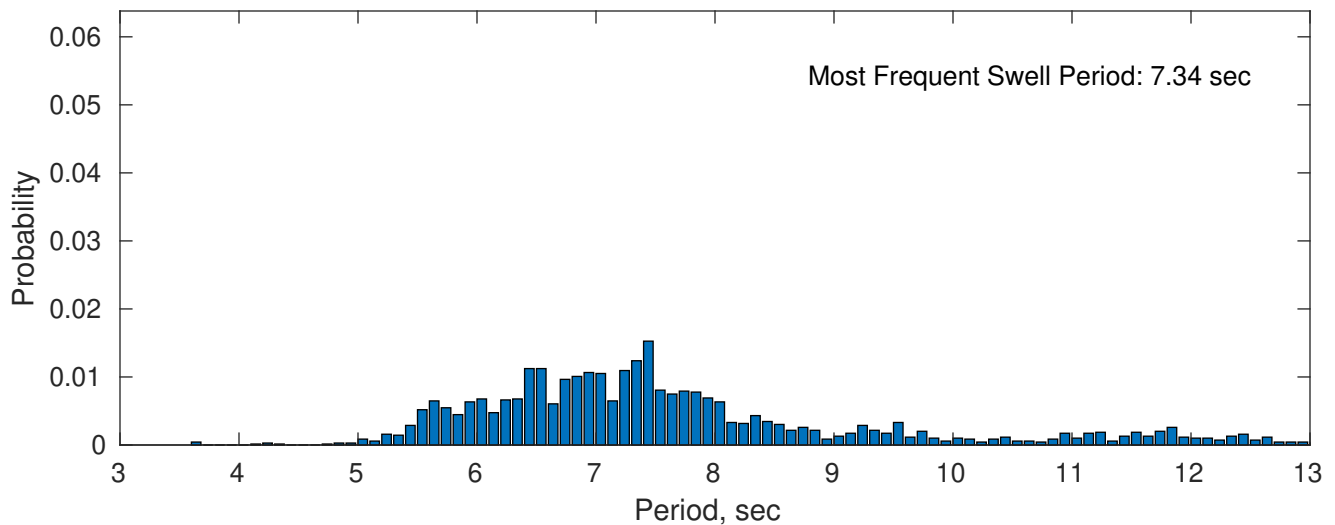
March Peak Wave Period PDF: 1979 - 2015



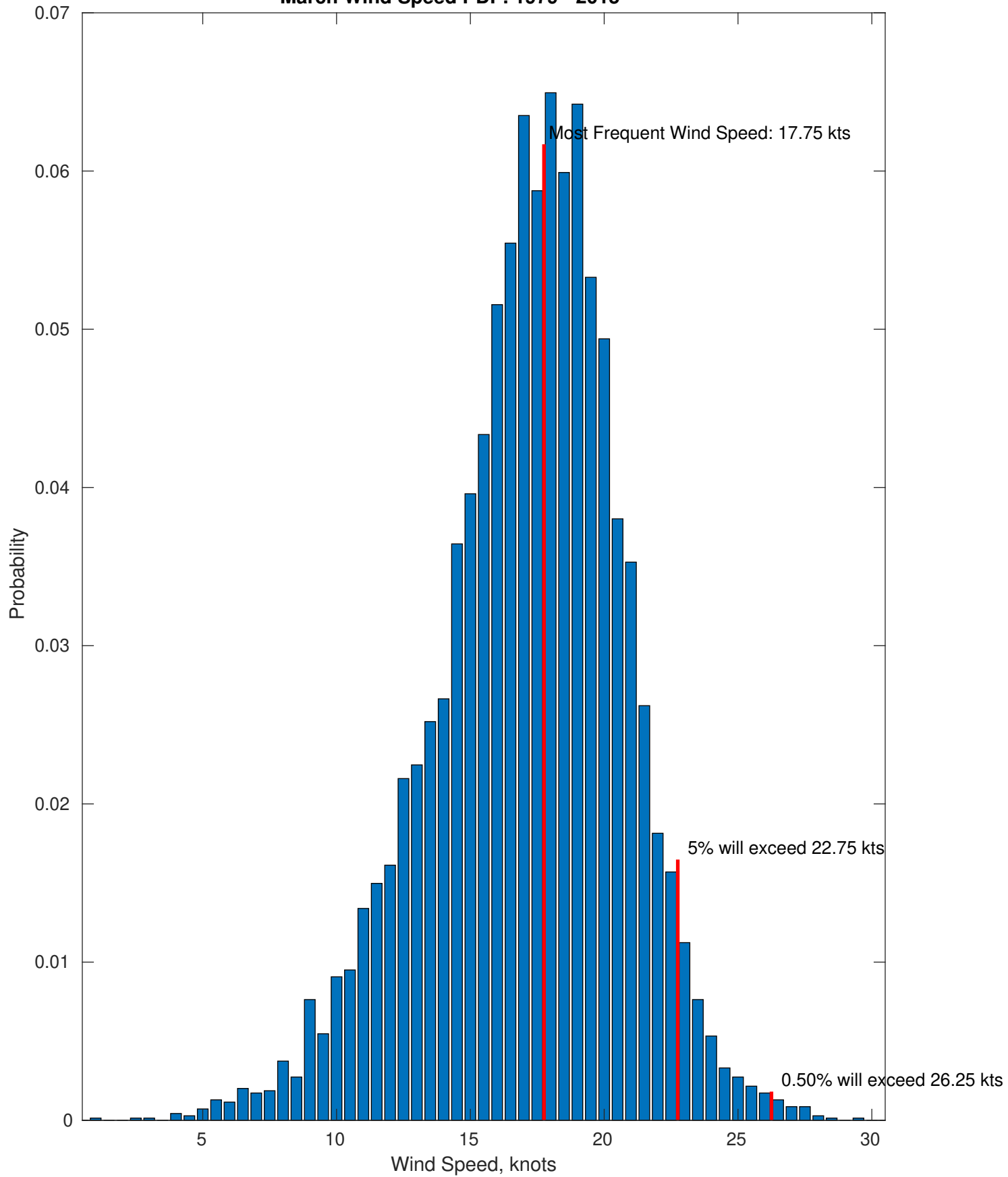
Wind-Sea: 69.17%



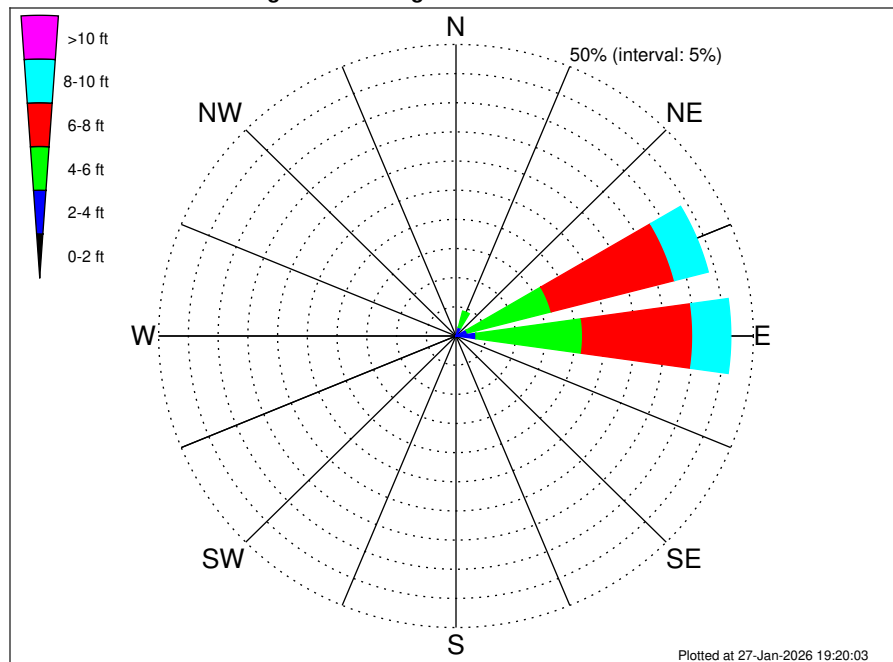
Swell: 30.83%



March Wind Speed PDF: 1979 - 2015



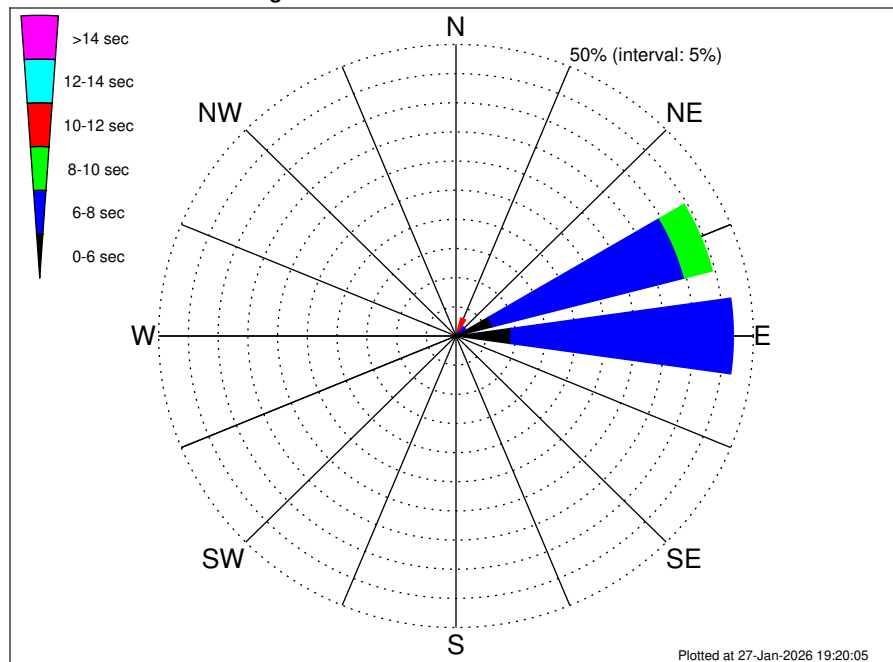
Aruba EBS Climatological WaveHeight Rose for March: 1979 - 2015



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	•	0.03	0.01	•	0.03	•	•	•	•	•	•	•	•	•	•	•	0.07
2 - 4 ft	0.01	1.51	0.56	1.97	3.34	•	•	•	•	•	•	•	•	•	0.03	0.06	7.49
4 - 6 ft	0.01	2.88	1.22	14.57	17.93	•	0.01	•	•	•	•	•	•	•	0.01	•	36.65
6 - 8 ft	•	0.36	0.94	21.41	18.53	•	•	•	•	•	•	•	•	•	•	•	41.24
8 - 10 ft	•	0.16	0.27	5.86	6.38	•	•	•	•	•	•	•	•	•	•	•	12.67
10 - 12 ft	•	•	0.23	0.65	0.91	•	•	•	•	•	•	•	•	•	•	•	1.79
12 - 14 ft	•	•	0.03	0.06	•	•	•	•	•	•	•	•	•	•	•	•	0.09
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.03	4.94	3.27	44.53	47.12	•	0.01	•	•	•	•	•	•	•	0.04	0.06	100.00

Aruba EBS Climatological WavePeriod Rose for March: 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	•	0.04	0.04	0.04	0.01	•	•	•	•	•	•	•	•	•	•	•	0.14
4 - 6 sec	•	0.03	0.65	6.24	9.27	•	0.01	•	•	•	•	•	•	•	•	•	16.20
6 - 8 sec	0.01	0.35	1.31	33.42	37.36	•	•	•	•	•	•	•	•	•	•	0.03	72.48
8 - 10 sec	•	0.59	0.75	4.82	0.48	•	•	•	•	•	•	•	•	•	0.04	0.03	6.71
10 - 12 sec	0.01	2.17	0.19	•	•	•	•	•	•	•	•	•	•	•	•	•	2.38
12 - 14 sec	•	1.24	0.30	•	•	•	•	•	•	•	•	•	•	•	•	•	1.54
14 - 16 sec	•	0.46	0.03	•	•	•	•	•	•	•	•	•	•	•	•	•	0.49
18 - 20 sec	•	0.06	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.06
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.03	4.94	3.27	44.53	47.12	•	0.01	•	•	•	•	•	•	•	0.04	0.06	100.00

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