

Aruba EBS - December

Latitude: 13.06 N Longitude: 69.89 W

Weather Days

Wave Height > 6.6 ft Mean: 13.2 days Range: 7.8 - 18.5 days p50:12.5 days p75:10 days p90:6 days
Wave Height > 8.2 ft Mean: 3.9 days Range: 0.9 - 6.9 days p50:4 days p75:2 days p90:0.5 days
Wave Height > 10.0 ft Mean: 0.9 days Range: 0.0 - 2.1 days p50:3.5 days p75:1.5 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 5.7 days Range: 1.2 - 10.2 days p50:5.5 days p75:2.5 days p90:2 days
Wind Speed > 21.0 knots Mean: 3.6 days Range: 0.0 - 7.4 days p50:2.5 days p75:1.5 days p90:1 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 < 6.6 ft	A 1 day or longer window will statistically occur 3.1 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 < 8.2 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
Wave Height < 10.0 ft	A 1 day or longer window will statistically occur 1.5 times per month A 2 day or longer window will statistically occur 1.4 times per month A 3 day or longer window will statistically occur 1.3 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: ENE
WindSea/Swell: 63% / 37%

Winds

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

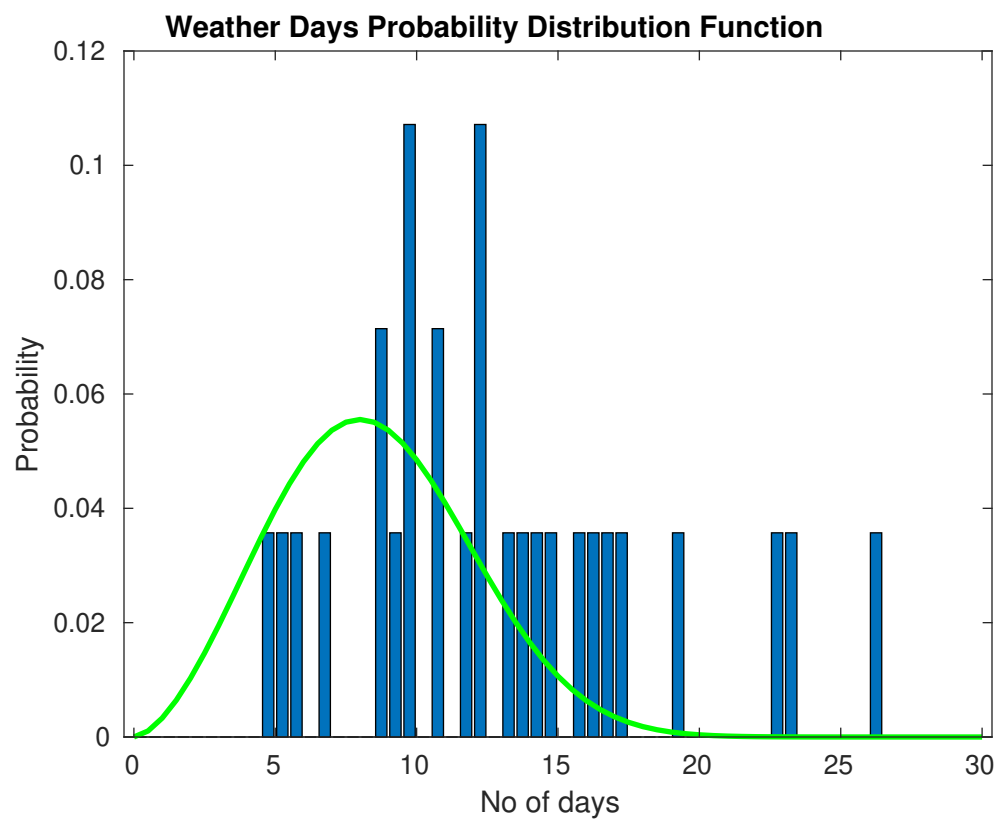
Currents

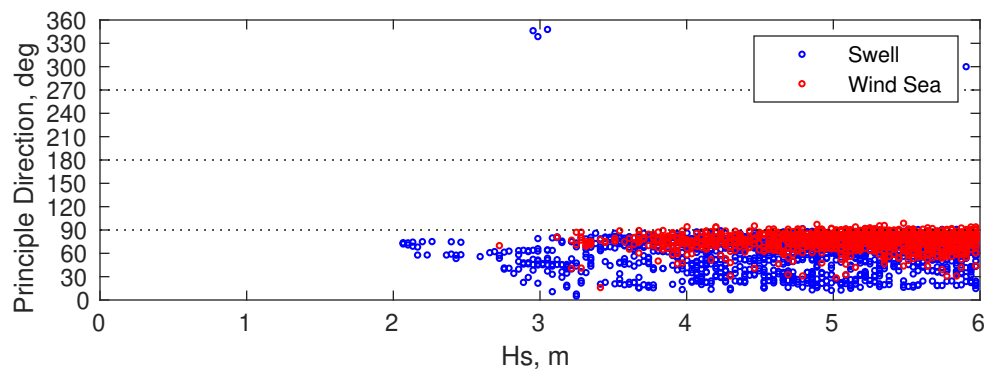
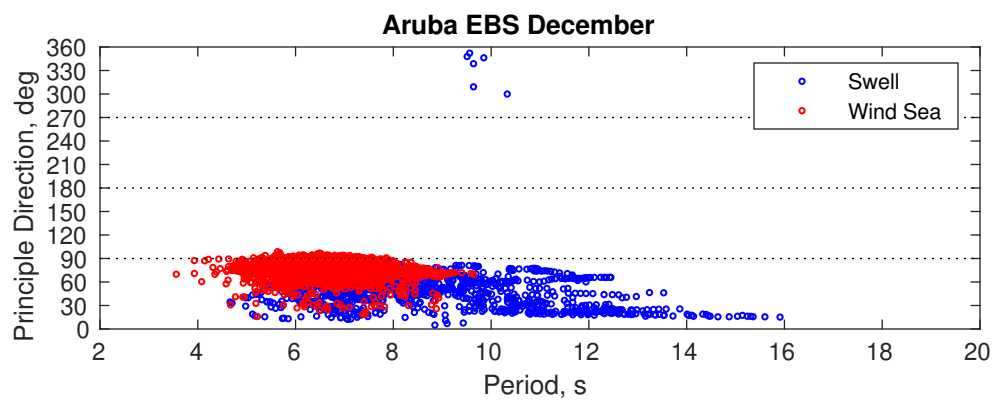
Mean Speed: 1.00-1.25 kts
The currents will occasionally reach 2.00-2.25 kts, but rarely greater.
Principle Direction, to: WNW

Weather Days
Current Speed > 1.0 knots Mean: 17.2 days Range: 8.0 - 26.3 days p50:20 days p75:10 days p90:4 days
Current Speed > 1.5 knots Mean: 6.7 days Range: 0.0 - 13.4 days p50:7 days p75:1 days p90:1 days
Current Speed > 2.0 knots Mean: 0.6 days Range: 0.0 - 2.1 days p50:1 days p75:1 days p90:1 days

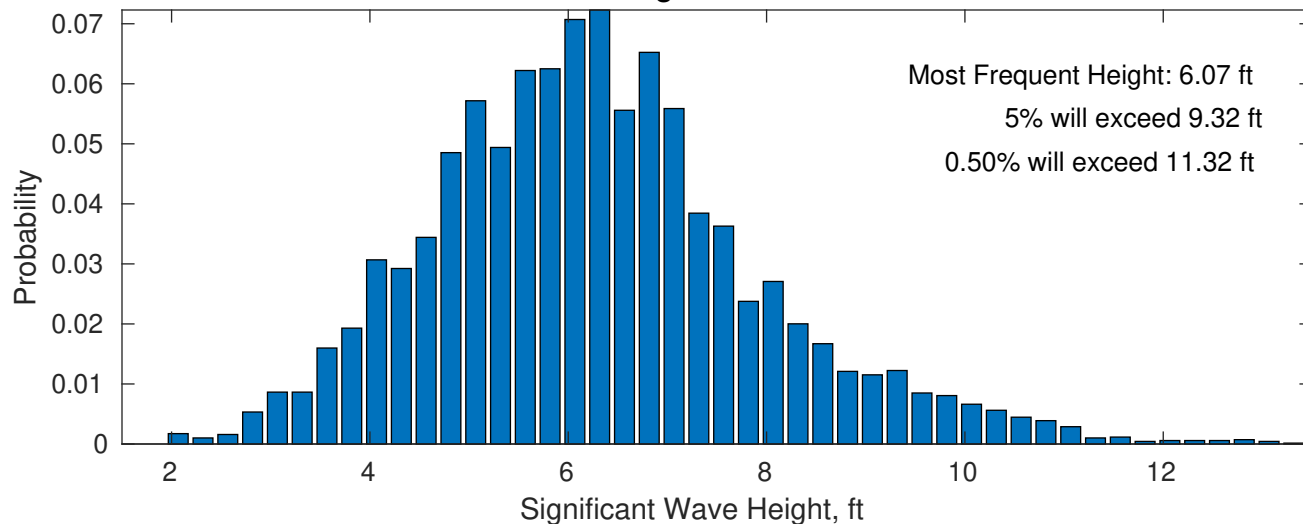
Severe Storms

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

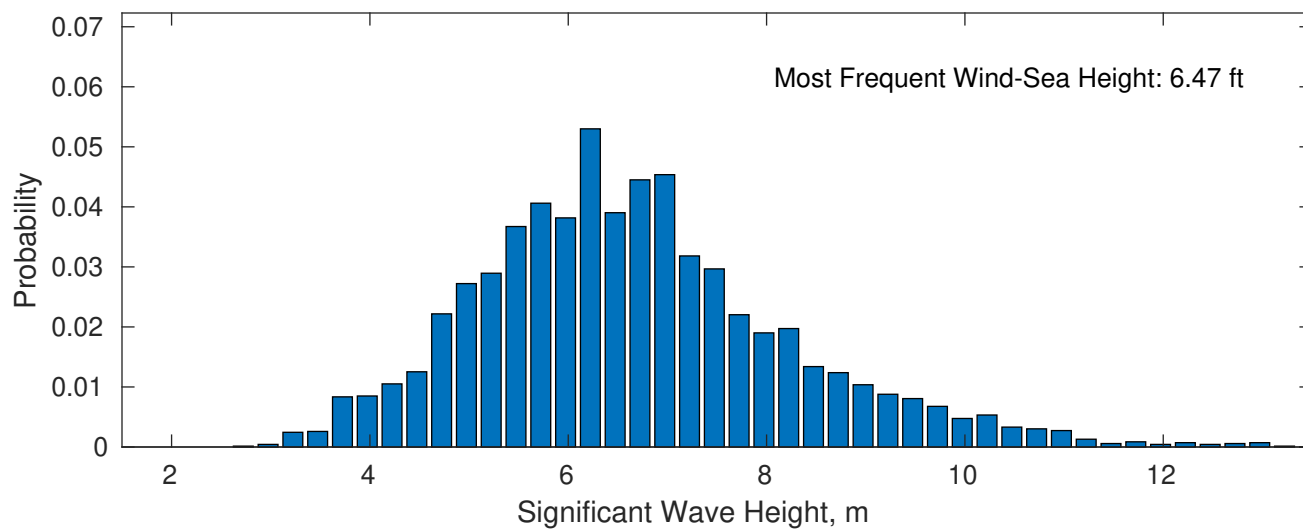




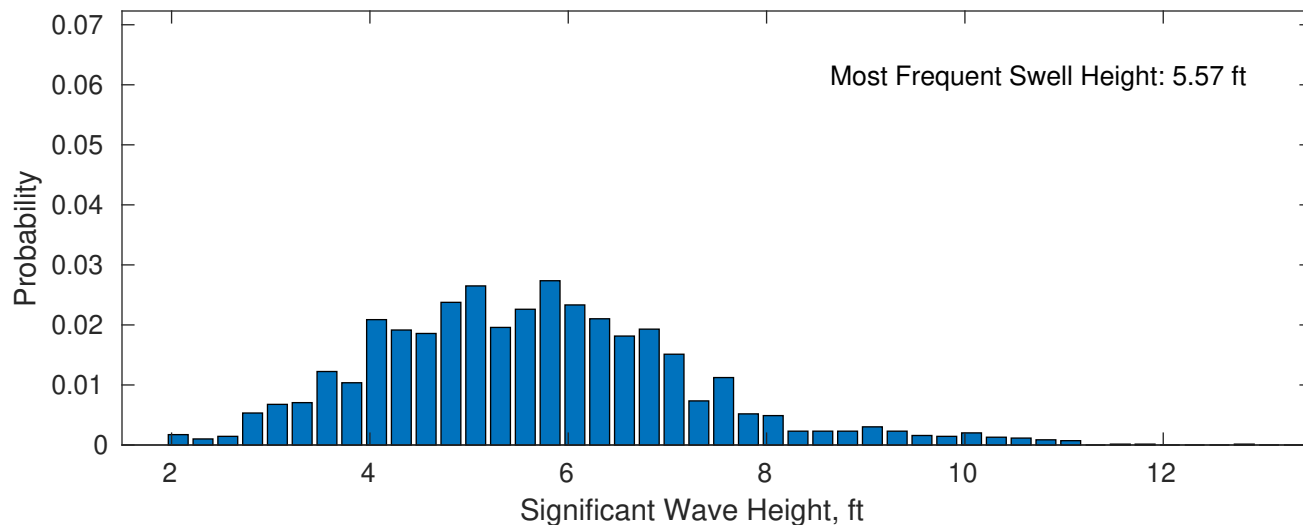
December Wave Height PDF: 1979 - 2015



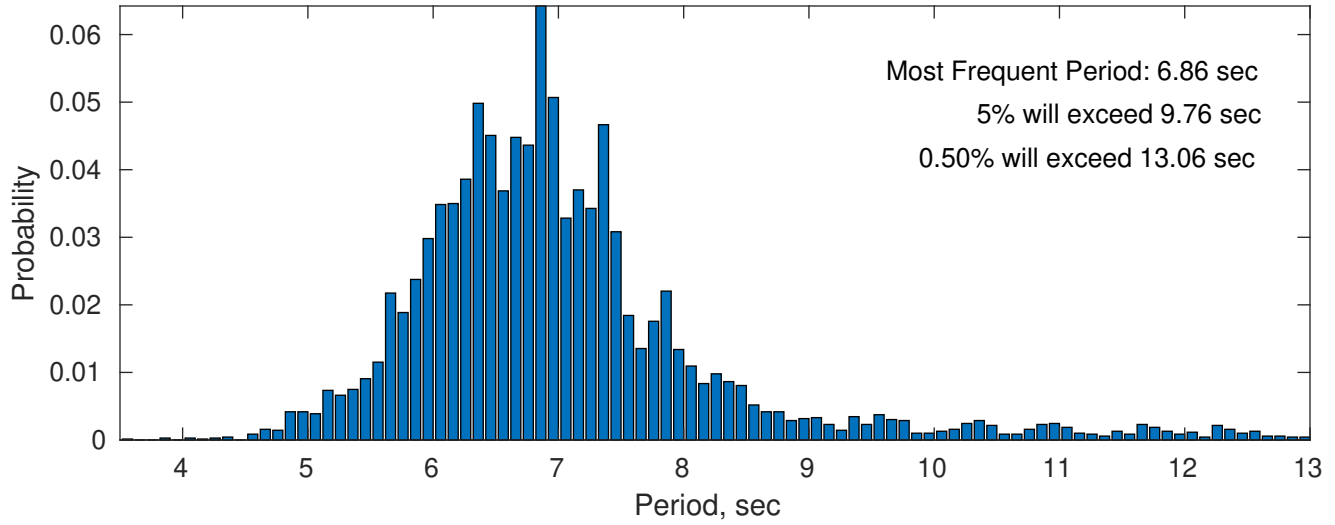
Wind-Sea: 62.83%



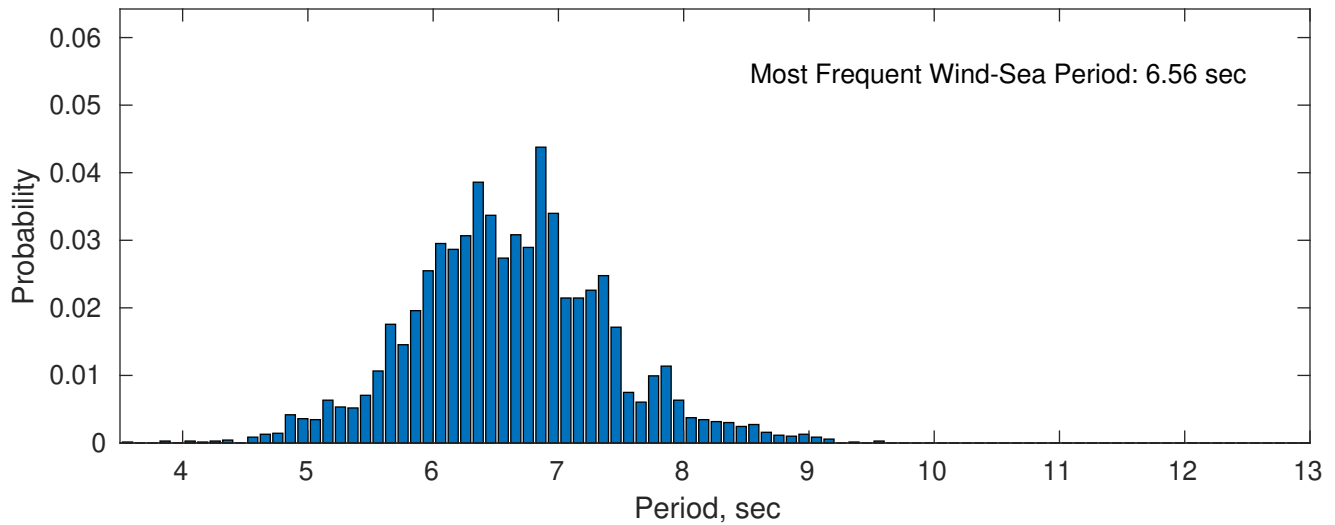
Swell: 37.17%



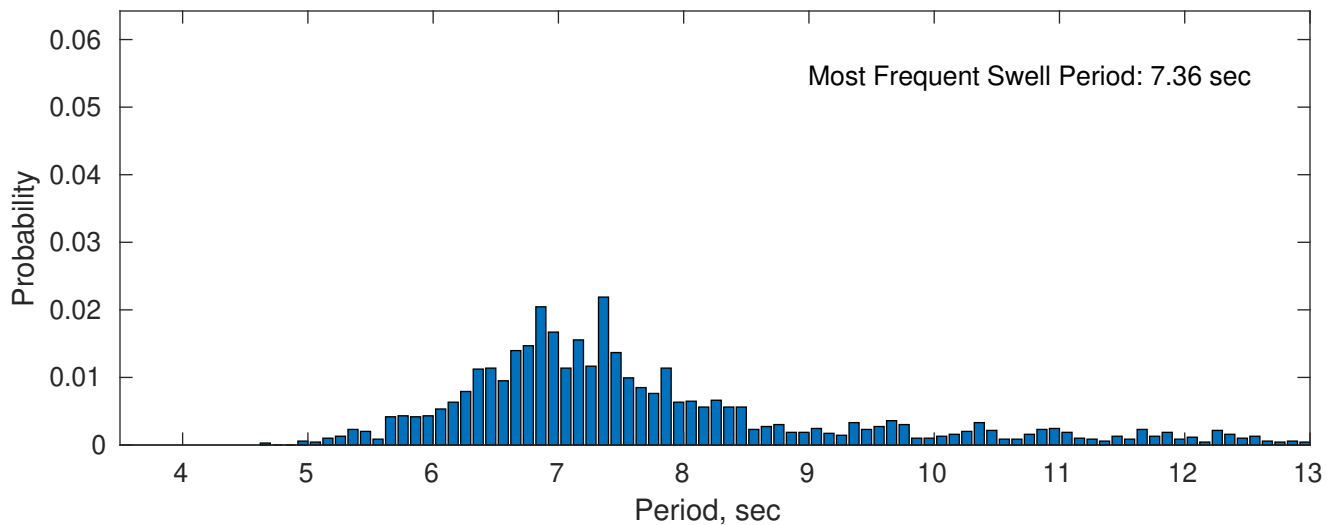
December Peak Wave Period PDF: 1979 - 2015



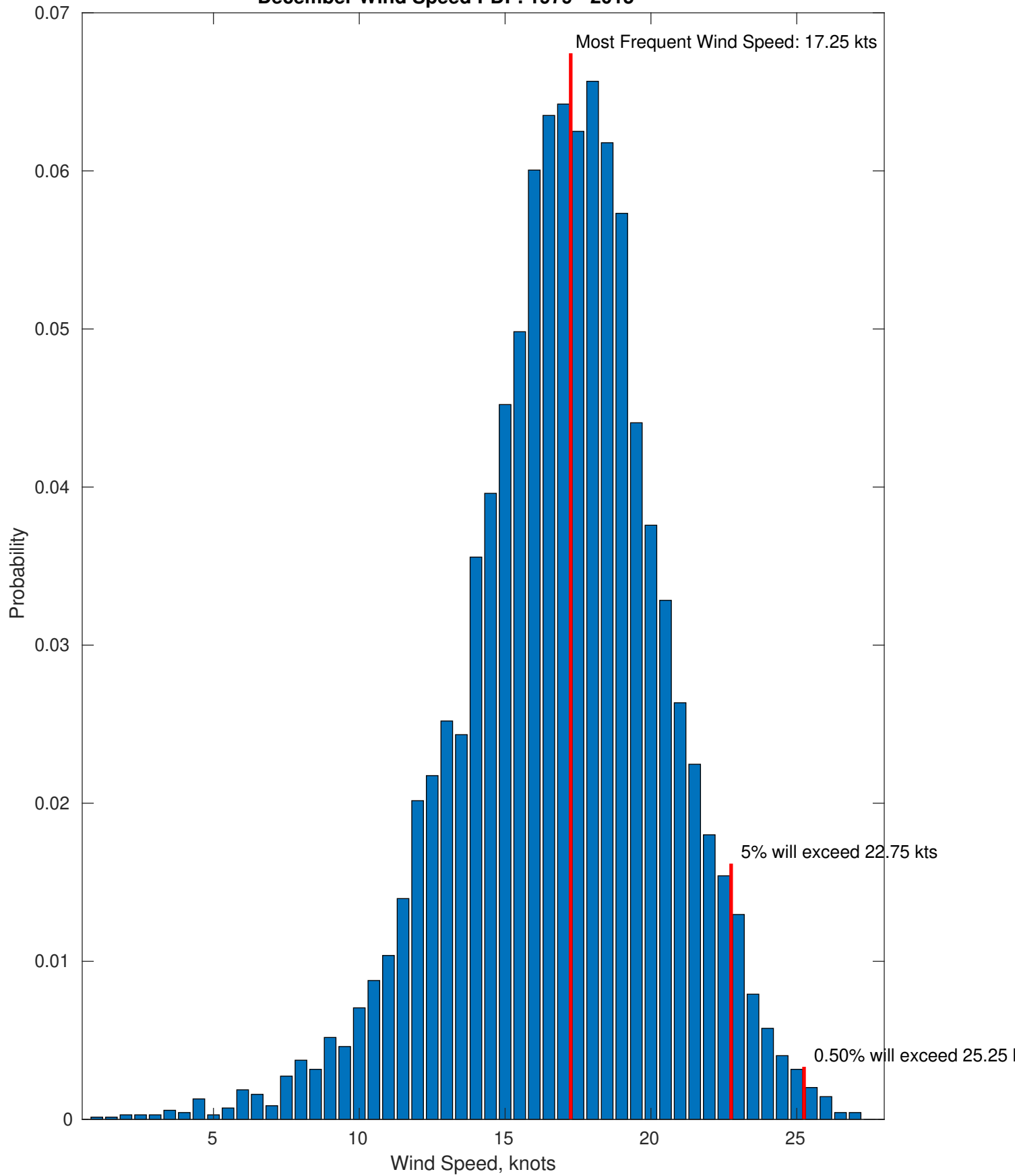
Wind-Sea: 62.83%



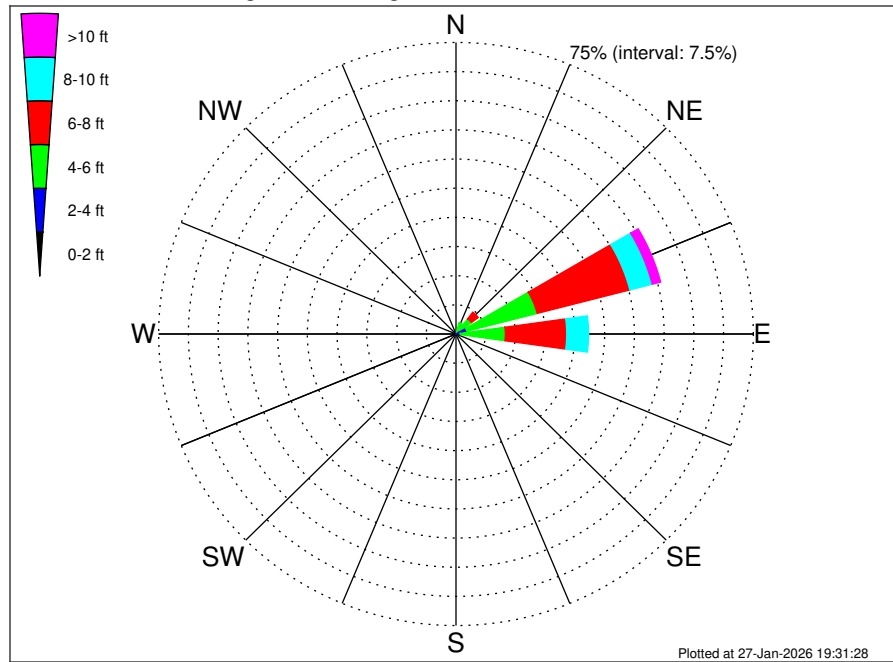
Swell: 37.17%



December Wind Speed PDF: 1979 - 2015



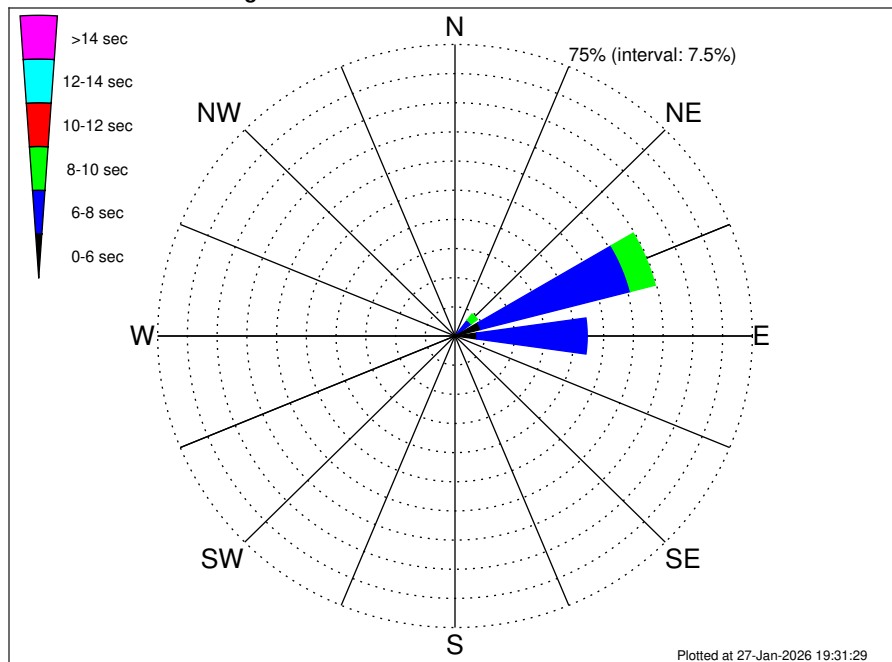
Aruba EBS Climatological WaveHeight Rose for December: 1979 - 2015



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	0.04	0.48	1.21	2.84	1.09	•	•	•	•	•	•	•	•	•	•	0.04	5.70
4 - 6 ft	•	2.56	3.67	18.32	11.36	•	•	•	•	•	•	•	•	0.01	•	•	35.93
6 - 8 ft	•	1.35	2.15	24.15	15.48	•	•	•	•	•	•	•	•	•	0.01	•	43.15
8 - 10 ft	0.01	0.06	0.71	5.83	5.50	•	•	•	•	•	•	•	•	•	•	•	12.11
10 - 12 ft	0.01	0.19	0.23	1.92	0.42	•	•	•	•	•	•	•	•	•	•	•	2.76
12 - 14 ft	•	0.03	0.04	0.27	•	•	•	•	•	•	•	•	•	•	•	•	0.35
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.07	4.67	8.01	53.33	33.86	•	•	•	•	•	•	•	•	0.01	0.01	0.04	100.00

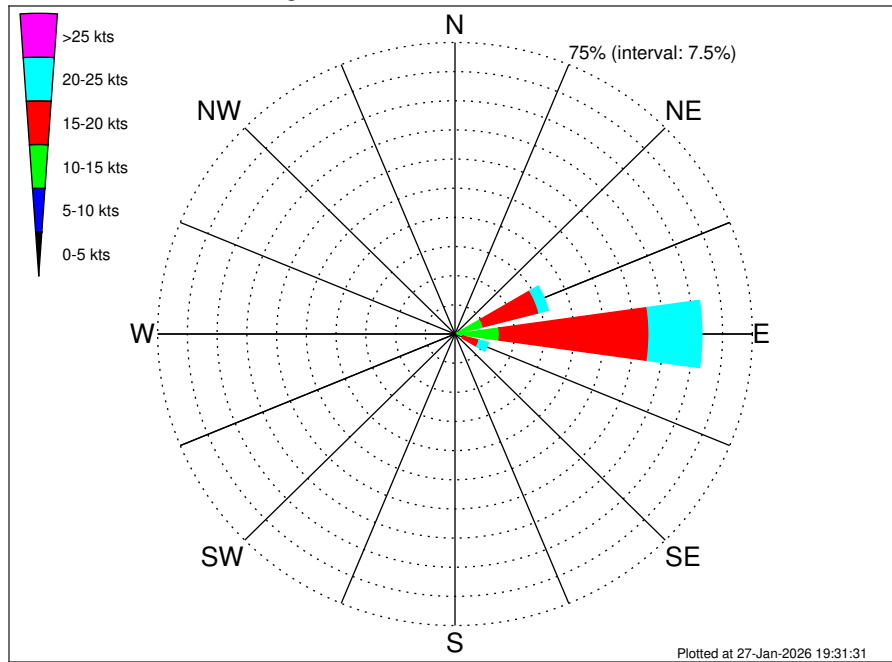
Aruba EBS Climatological WavePeriod Rose for December: 1979 - 2015



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	•	•	•	0.03	0.01	•	•	•	•	•	•	•	•	•	•	•	0.04
4 - 6 sec	•	0.26	1.02	6.67	5.54	•	•	•	•	•	•	•	•	•	•	•	13.49
6 - 8 sec	•	1.32	4.09	39.03	27.79	•	•	•	•	•	•	•	•	•	•	•	72.24
8 - 10 sec	0.07	0.46	1.99	6.44	0.50	•	•	•	•	•	•	•	•	•	0.01	0.04	9.52
10 - 12 sec	•	1.34	0.78	1.07	•	•	•	•	•	•	•	•	•	0.01	•	•	3.20
12 - 14 sec	•	1.04	0.13	0.10	•	•	•	•	•	•	•	•	•	•	•	•	1.27
14 - 16 sec	•	0.24	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.24
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.07	4.67	8.01	53.33	33.86	•	•	•	•	•	•	•	•	0.01	0.01	0.04	100.00

Aruba EBS 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 - 5 kts	0.04	0.03	0.06	0.03	•	0.01	0.06	0.06	•	0.01	0.03	•	•	•	0.01	•	0.35
5 - 10 kts	0.09	0.17	0.42	0.62	0.60	0.32	0.13	0.01	•	0.01	0.01	•	•	•	•	0.09	2.48
10 - 15 kts	0.04	0.32	1.12	6.74	10.60	1.73	0.10	0.01	0.01	•	•	•	•	•	•	•	20.68
15 - 20 kts	•	0.03	0.86	14.49	37.74	4.23	0.06	•	•	•	•	•	•	•	•	•	57.42
20 - 25 kts	•	•	0.14	2.45	13.31	2.42	0.01	•	•	•	•	•	•	•	•	•	18.33
25 - 30 kts	•	•	0.03	0.01	0.48	0.23	•	•	•	•	•	•	•	•	•	•	0.75
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.17	0.55	2.64	24.34	62.73	8.94	0.36	0.09	0.01	0.03	0.04	•	•	•	0.01	0.09	100.00