

Aruba EBS - January

Latitude: 13.06 N Longitude: 69.89 W

Weather Days

Wave Height > 6.6 ft Mean: 16.2 days Range: 10.4 - 22.0 days p50:17 days p75:12.5 days p90:7.5 days
Wave Height > 8.2 ft Mean: 5.6 days Range: 1.4 - 9.9 days p50:6 days p75:3 days p90:2 days
Wave Height > 10.0 ft Mean: 0.7 days Range: 0.0 - 1.8 days p50:30 days p75:1 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 7.3 days Range: 3.2 - 11.5 days p50:7 days p75:4.5 days p90:1.5 days
Wind Speed > 21.0 knots Mean: 4.5 days Range: 1.2 - 7.7 days p50:4 days p75:2.5 days p90:1 days
Wind Speed > 25.0 knots Mean: 0.2 days Range: 0.0 - 0.6 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 2.3 times per month A 2 day or longer window will statistically occur 1.5 times per month A 3 day or longer window will statistically occur 1.1 times per month
Wave Height < 8.2 ft	A 1 day or longer window will statistically occur 2.7 times per month A 2 day or longer window will statistically occur 2.0 times per month A 3 day or longer window will statistically occur 1.5 times per month
Wave Height < 10.0 ft	A 1 day or longer window will statistically occur 1.3 times per month A 2 day or longer window will statistically occur 1.3 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 10 - 12 sec, but rarely longer.
Principle Direction, from: ENE
WindSea/Swell: 65% / 35%

Winds

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

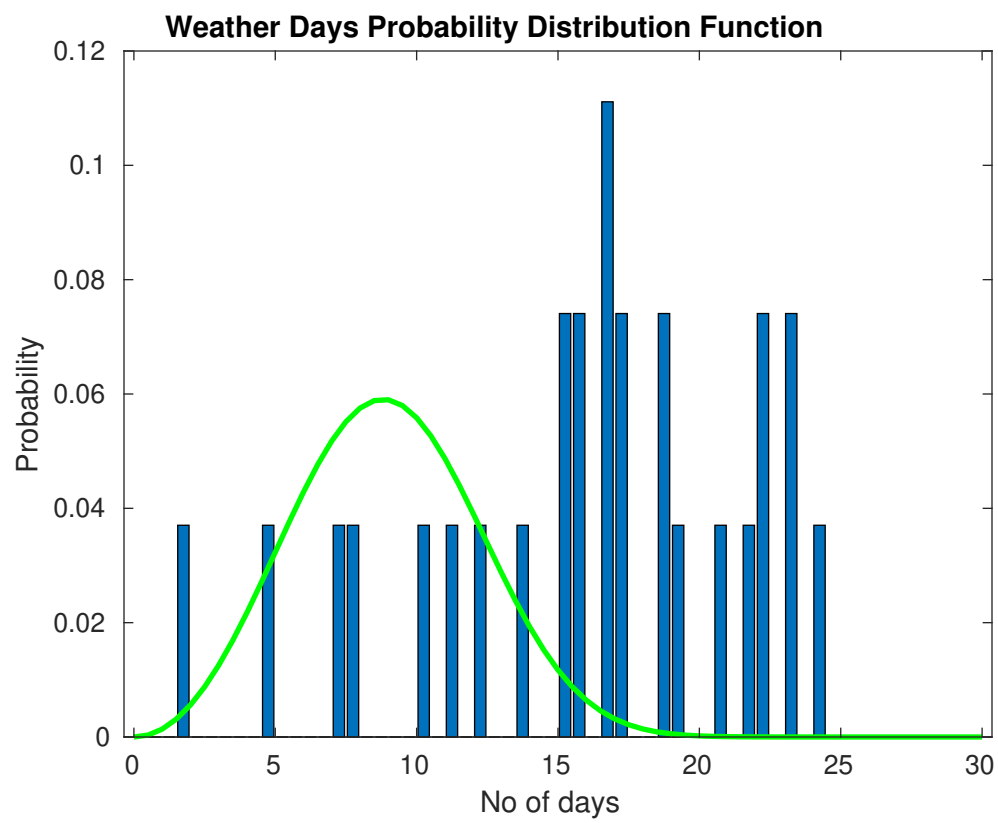
Currents

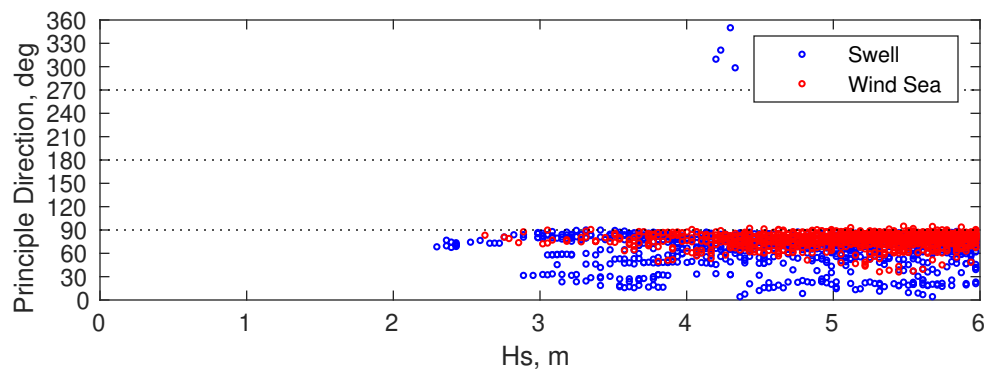
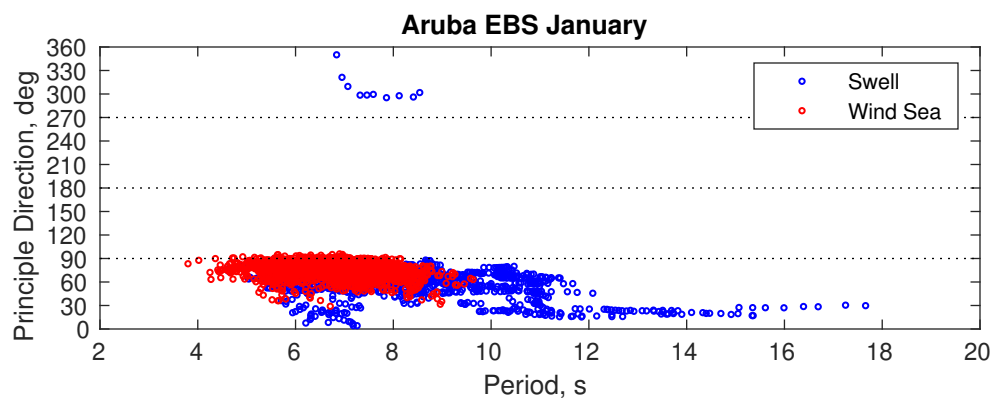
Mean Speed: 1.00-1.25 kts
The currents will occasionally reach 2.25-2.50 kts, but rarely greater.
Principle Direction, to: WNW

Weather Days
Current Speed > 1.0 knots Mean: 17.9 days Range: 10.5 - 25.3 days p50:22 days p75:12 days p90:7 days
Current Speed > 1.5 knots Mean: 7.0 days Range: 0.0 - 14.1 days p50:8 days p75:2 days p90:1 days
Current Speed > 2.0 knots Mean: 1.7 days Range: 0.0 - 5.0 days p50:1 days p75:1 days p90:1 days

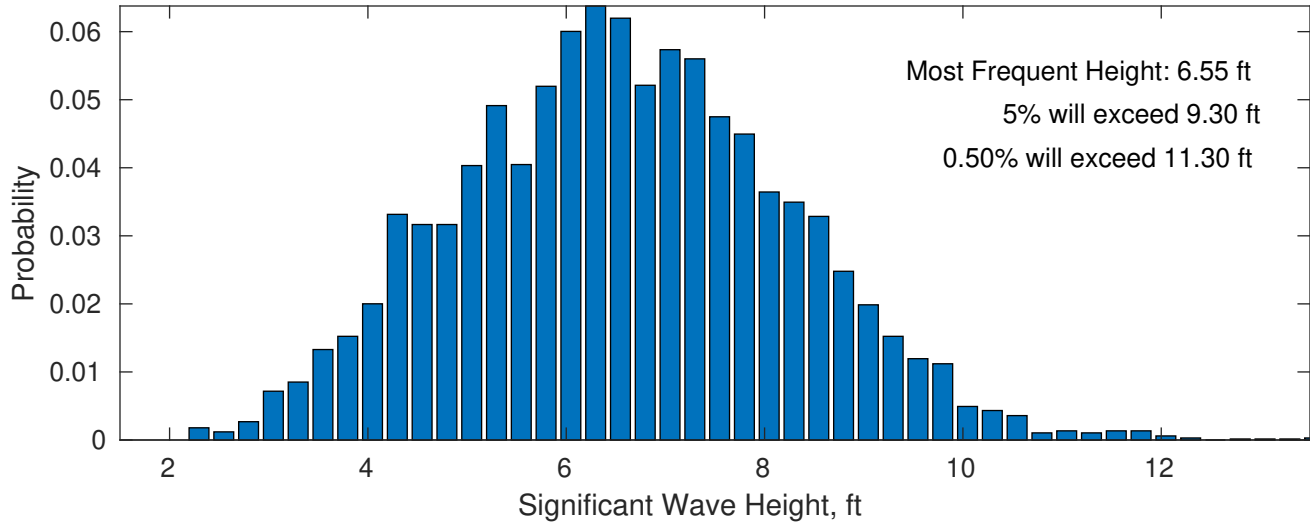
Severe Storms

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

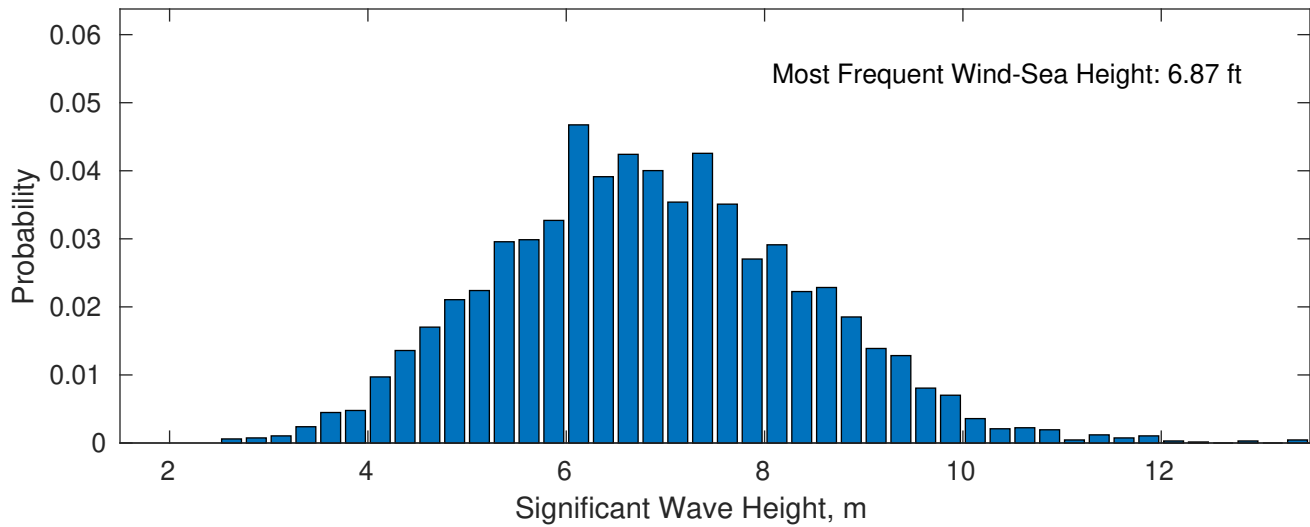




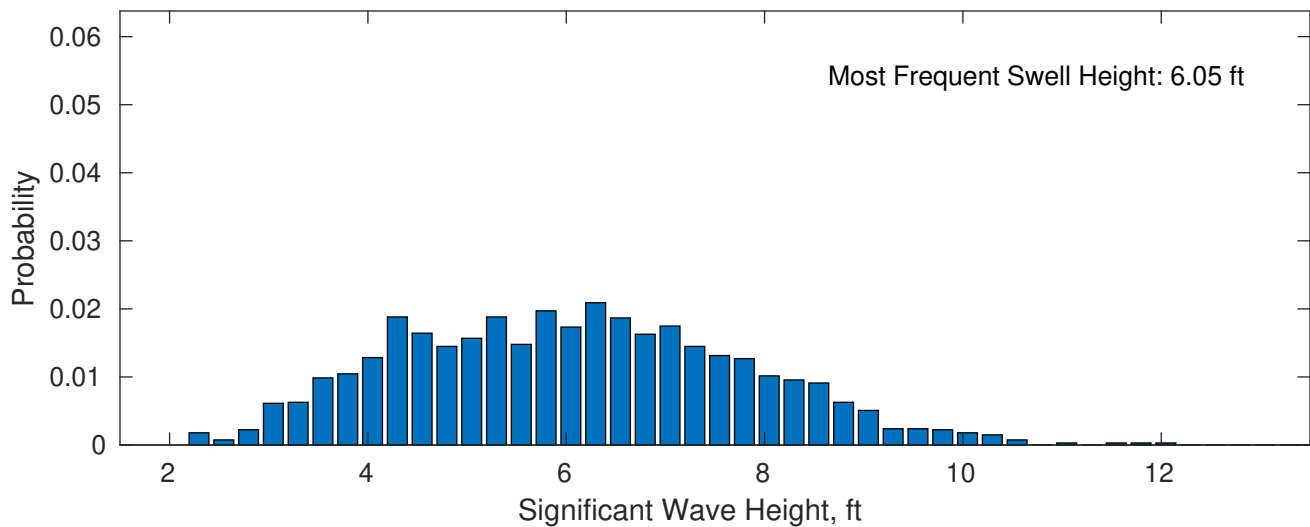
January Wave Height PDF: 1979 - 2015



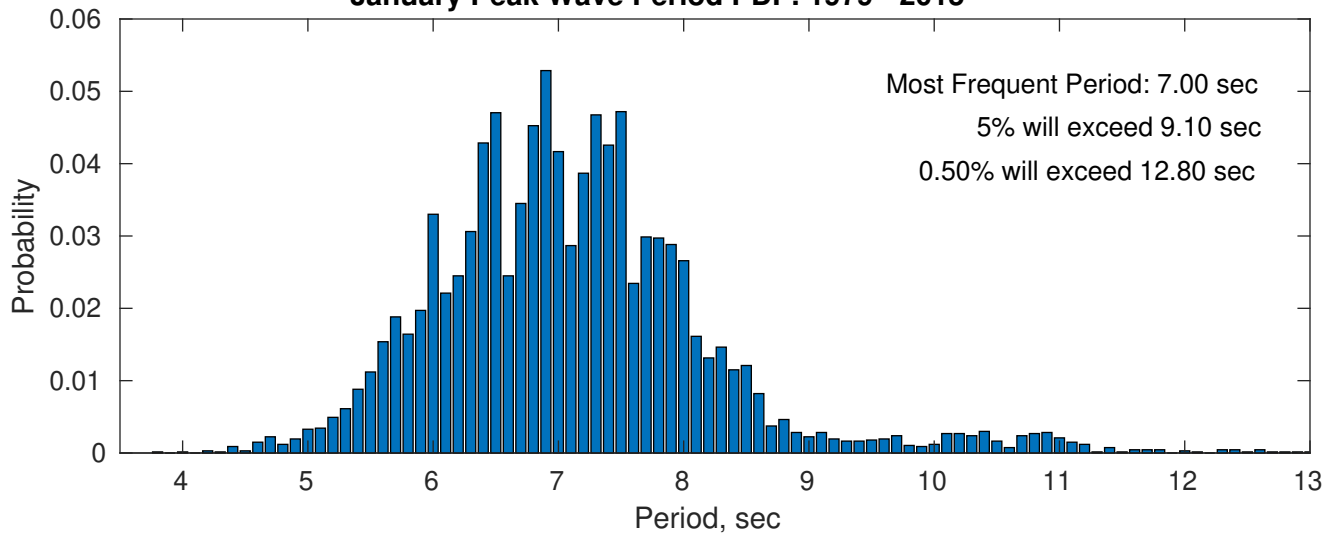
Wind-Sea: 64.76%



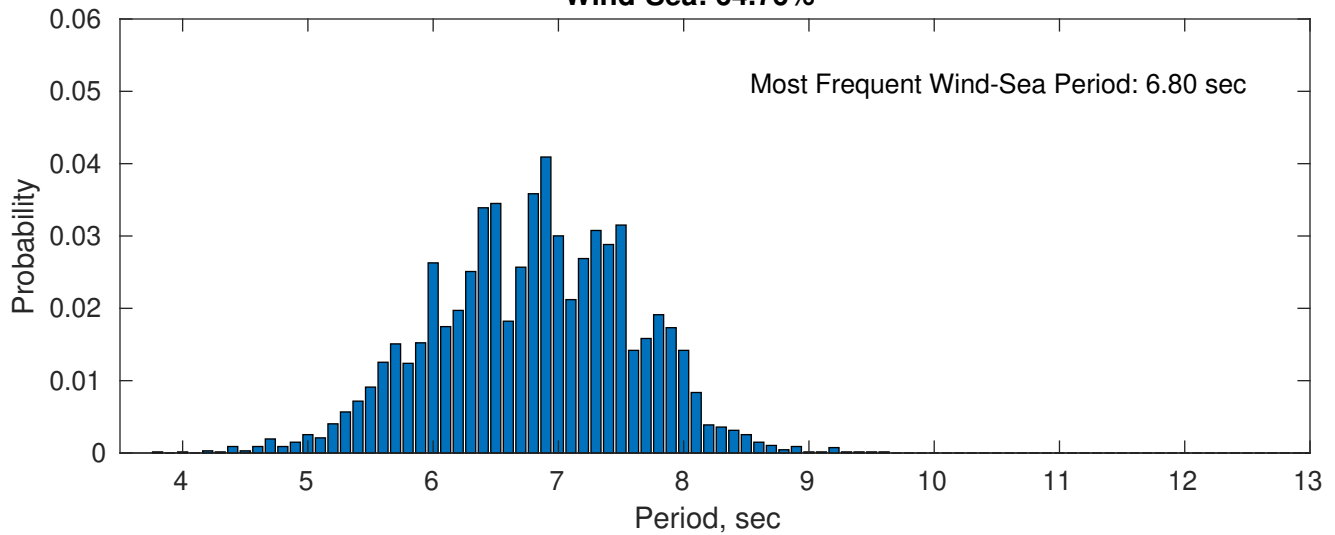
Swell: 35.24%



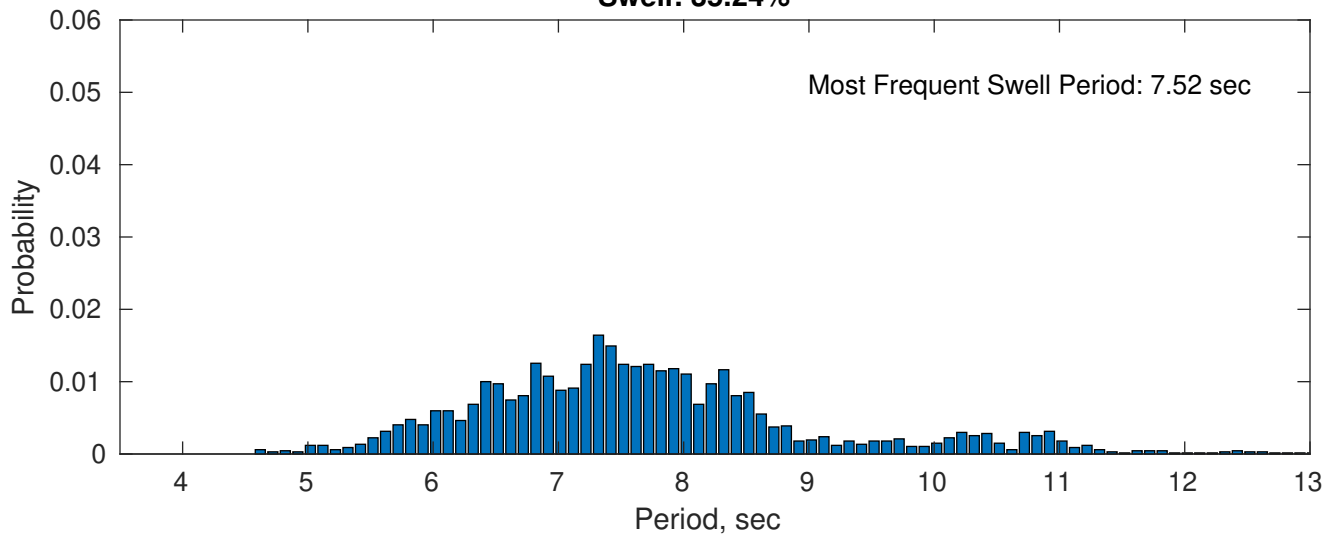
January Peak Wave Period PDF: 1979 - 2015



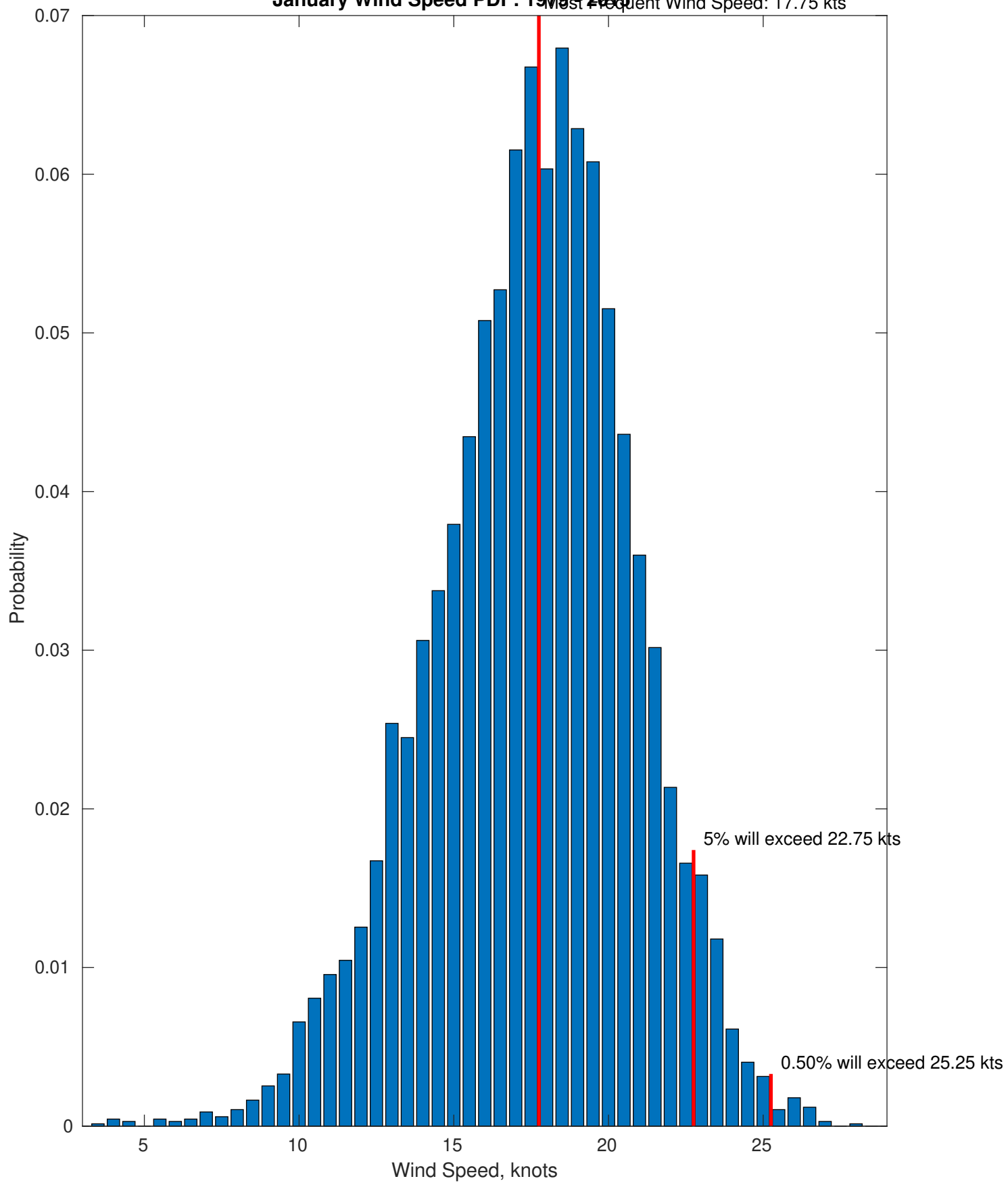
Wind-Sea: 64.76%



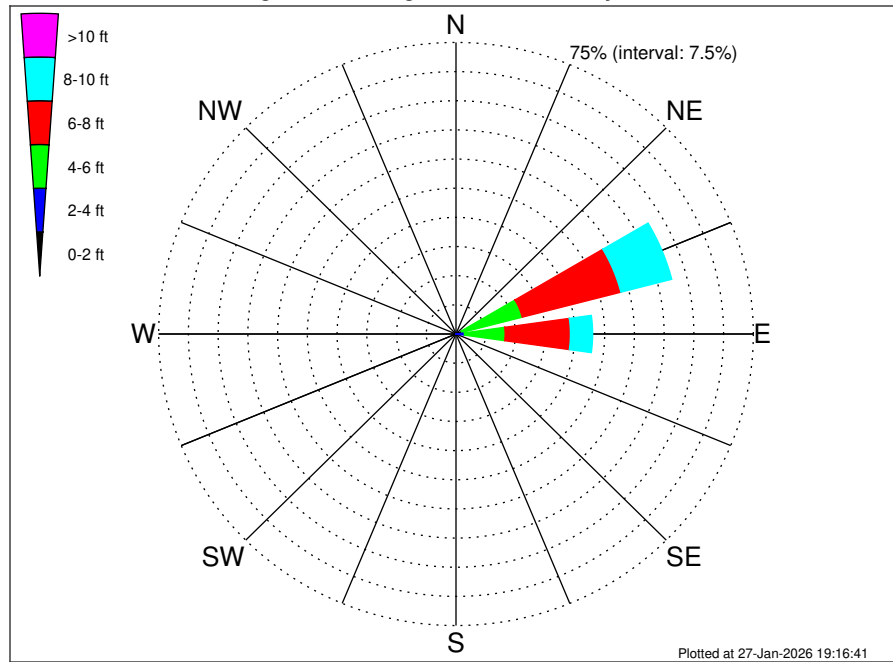
Swell: 35.24%



January Wind Speed PDF: 1979-2015



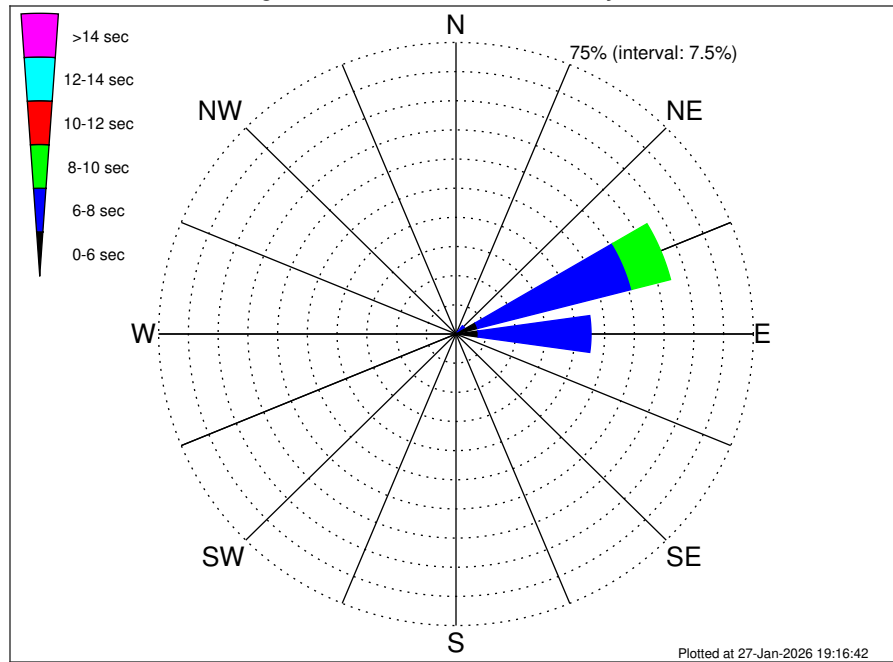
Aruba EBS Climatological WaveHeight Rose for January: 1979 - 2015



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	•	0.57	0.46	1.55	2.14	•	•	•	•	•	•	•	•	•	•	•	4.72
4 - 6 ft	0.12	0.96	1.66	15.71	10.26	•	•	•	•	•	•	•	•	0.06	0.03	•	28.79
6 - 8 ft	•	0.66	1.51	25.70	16.47	•	•	•	•	•	•	•	•	0.04	•	•	44.38
8 - 10 ft	•	•	0.91	13.25	5.60	•	•	•	•	•	•	•	•	•	•	•	19.76
10 - 12 ft	•	•	0.51	1.00	0.64	•	•	•	•	•	•	•	•	•	•	•	2.15
12 - 14 ft	•	0.01	0.09	0.09	•	•	•	•	•	•	•	•	•	•	•	•	0.19
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.12	2.20	5.14	57.30	35.11	•	•	•	•	•	•	•	•	0.10	0.03	•	100.00

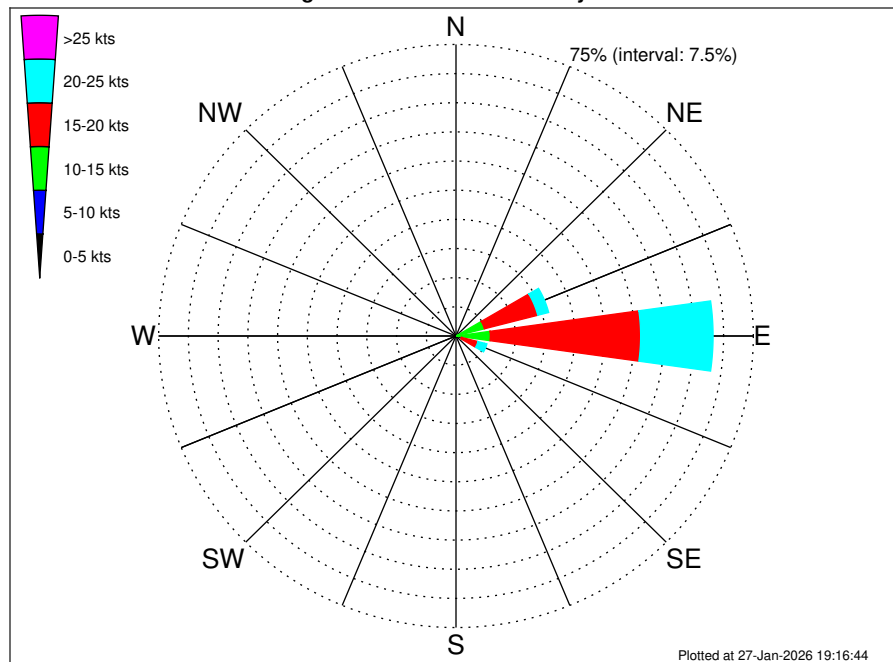
Aruba EBS Climatological WavePeriod Rose for January: 1979 - 2015



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	•	•	•	•	0.01	•	•	•	•	•	•	•	•	•	•	•	0.01
4 - 6 sec	•	0.04	0.63	5.66	5.62	•	•	•	•	•	•	•	•	•	•	•	11.95
6 - 8 sec	0.12	0.48	2.05	40.17	28.43	•	•	•	•	•	•	•	•	0.06	0.03	•	71.34
8 - 10 sec	•	0.22	1.76	10.07	0.97	•	•	•	•	•	•	•	•	0.04	•	•	13.07
10 - 12 sec	•	0.75	0.69	1.40	0.07	•	•	•	•	•	•	•	•	•	•	•	2.91
12 - 14 sec	•	0.45	0.01	•	•	•	•	•	•	•	•	•	•	•	•	•	0.46
14 - 16 sec	•	0.19	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.19
18 - 20 sec	•	0.06	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.06
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.12	2.20	5.14	57.30	35.11	•	•	•	•	•	•	•	•	0.10	0.03	•	100.00

Aruba EBS 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	0.01	0.01	0.01	•	•	•	•	•	•	0.01	•	•	0.09
5 - 10 kts	•	0.07	0.30	0.30	0.19	0.15	•	•	•	0.01	•	0.01	0.01	0.03	0.03	•	1.12
10 - 15 kts	•	0.10	0.79	7.08	8.45	1.27	0.01	0.03	•	•	•	•	•	0.03	0.03	0.01	17.82
15 - 20 kts	•	•	0.36	13.92	37.92	4.29	0.03	•	•	•	•	•	•	•	•	•	56.51
20 - 25 kts	•	•	0.27	2.84	18.26	2.33	•	•	•	•	•	•	•	•	•	•	23.70
25 - 30 kts	•	•	0.03	0.03	0.51	0.19	•	•	•	•	•	•	•	•	•	•	0.76
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	0.19	1.75	24.18	65.35	8.24	0.06	0.03	•	0.01	•	0.01	0.01	0.07	0.06	0.01	100.00