

Aruba EBS - July

Latitude: 13.06 N Longitude: 69.89 W

Weather Days

Wave Height > 6.6 ft Mean: 21.1 days Range: 16.6 - 25.5 days p50:21 days p75:18.5 days p90:16 days

Wave Height > 8.2 ft Mean: 6.2 days Range: 2.2 - 10.1 days p50:6 days p75:3 days p90:1.5 days

Wave Height > 10.0 ft Mean: 0.8 days Range: 0.0 - 1.8 days p50:2.5 days p75:1.5 days p90:1 days

Wind Speed > 20.0 knots Mean: 17.3 days Range: 13.5 - 21.0 days p50:17.5 days p75:15 days p90:13 days

Wind Speed > 21.0 knots Mean: 13.3 days Range: 9.7 - 16.9 days p50:13 days p75:11 days p90:10 days

Wind Speed > 25.0 knots Mean: 1.6 days Range: 0.3 - 2.9 days p50:1.5 days p75:1 days p90:0.5 days

Working Window

Wave Height < 6.6 ft
A 1 day or longer window will statistically occur 3.3 times per month
A 2 day or longer window will statistically occur 1.6 times per month
A 3 day or longer window will statistically occur 0.7 times per month

Wave Height < 8.2 ft
A 1 day or longer window will statistically occur 3.9 times per month
A 2 day or longer window will statistically occur 3.0 times per month
A 3 day or longer window will statistically occur 2.1 times per month

Wave Height < 10.0 ft
A 1 day or longer window will statistically occur 1.6 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 1.5 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 8 - 10 sec, but rarely longer.

Principle Direction, from: E

WindSea/Swell: 91% / 9%

Winds

Mean Speed: 20 - 25 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

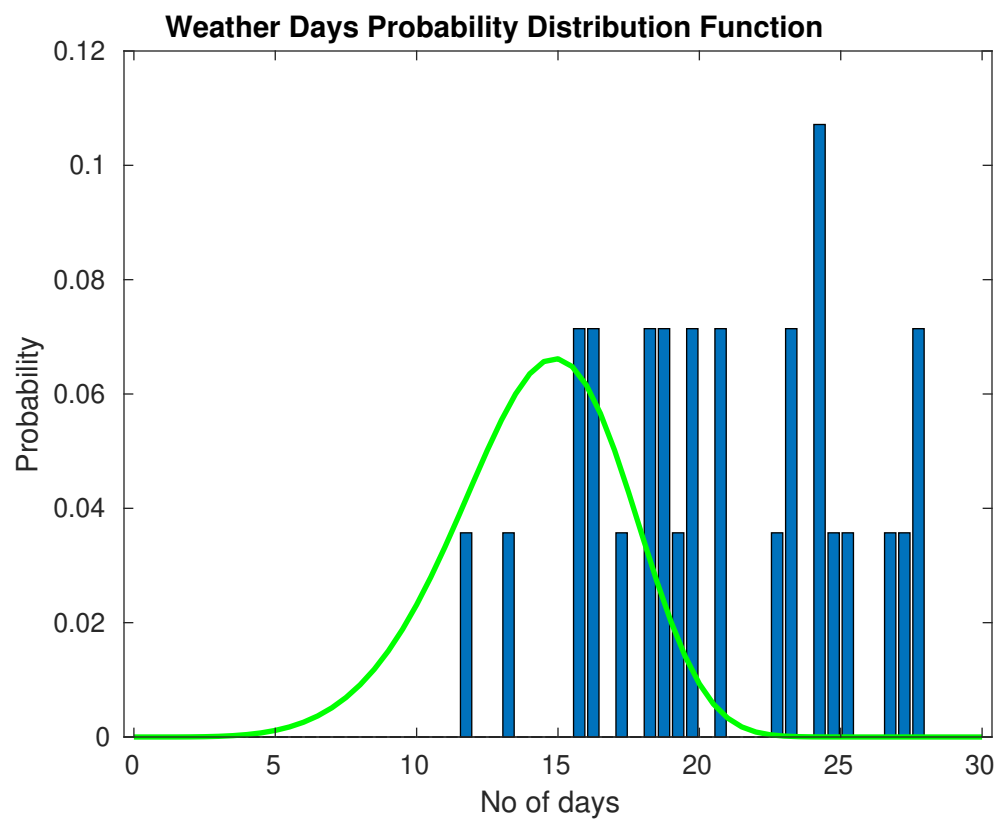
Current Speed > 1.0 knots Mean: 20.2 days Range: 11.4 - 29.1 days p50:24 days p75:16 days p90:6 days

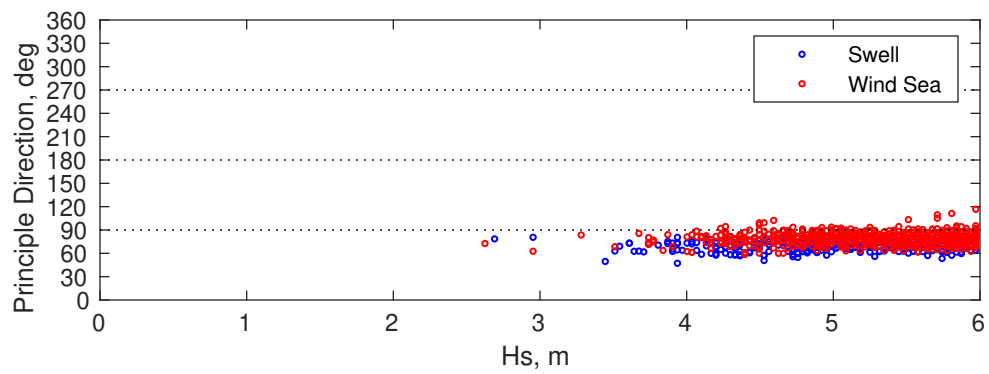
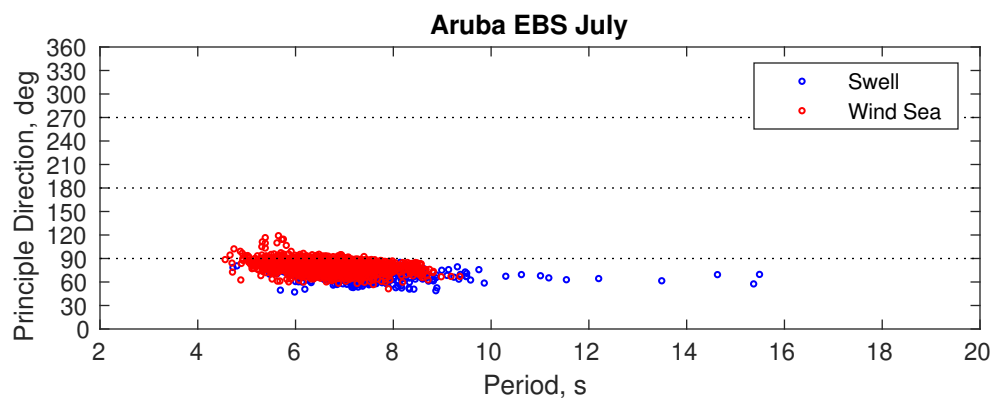
Current Speed > 1.5 knots Mean: 11.3 days Range: 3.8 - 18.8 days p50:14 days p75:4 days p90:1 days

Current Speed > 2.0 knots Mean: 3.1 days Range: 0.0 - 6.5 days p50:4 days p75:1 days p90:1 days

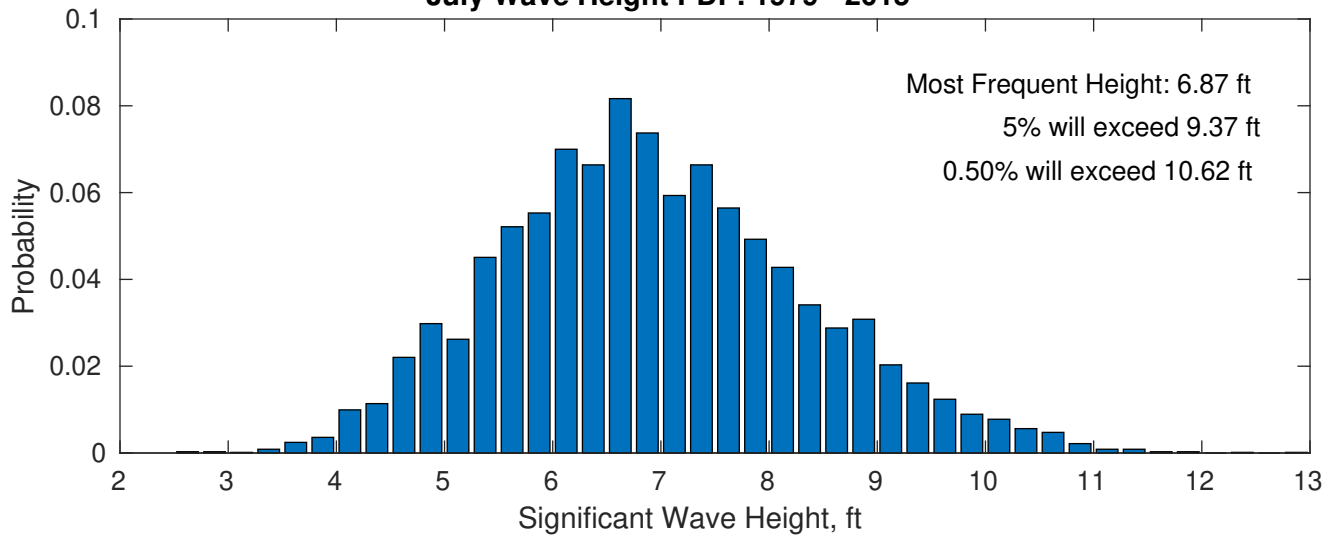
Severe Storms

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

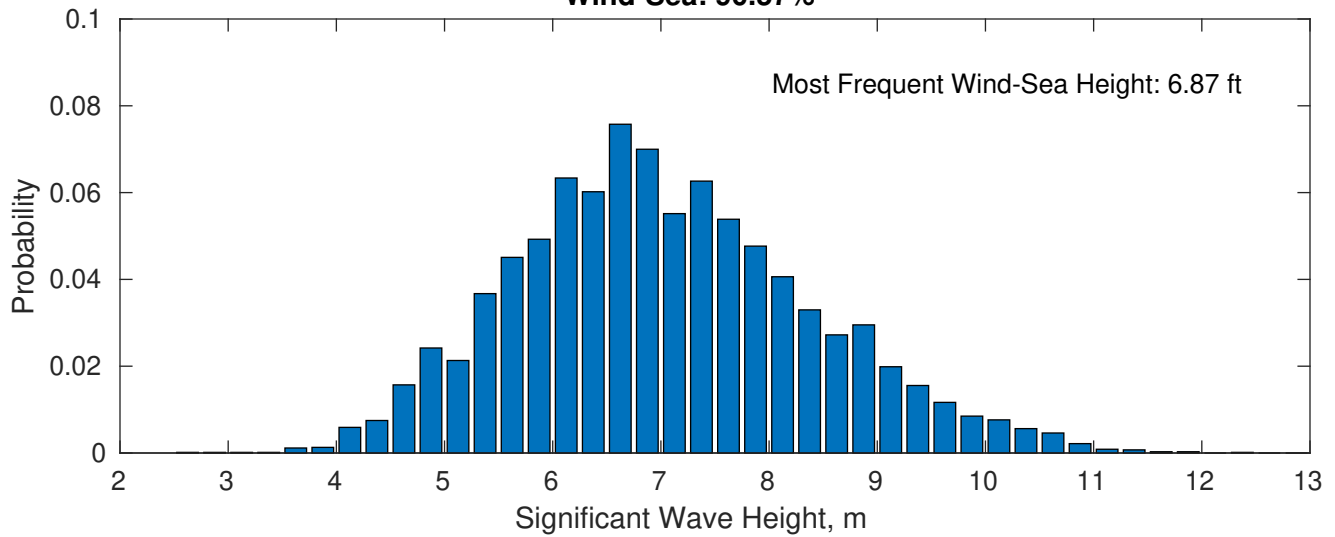




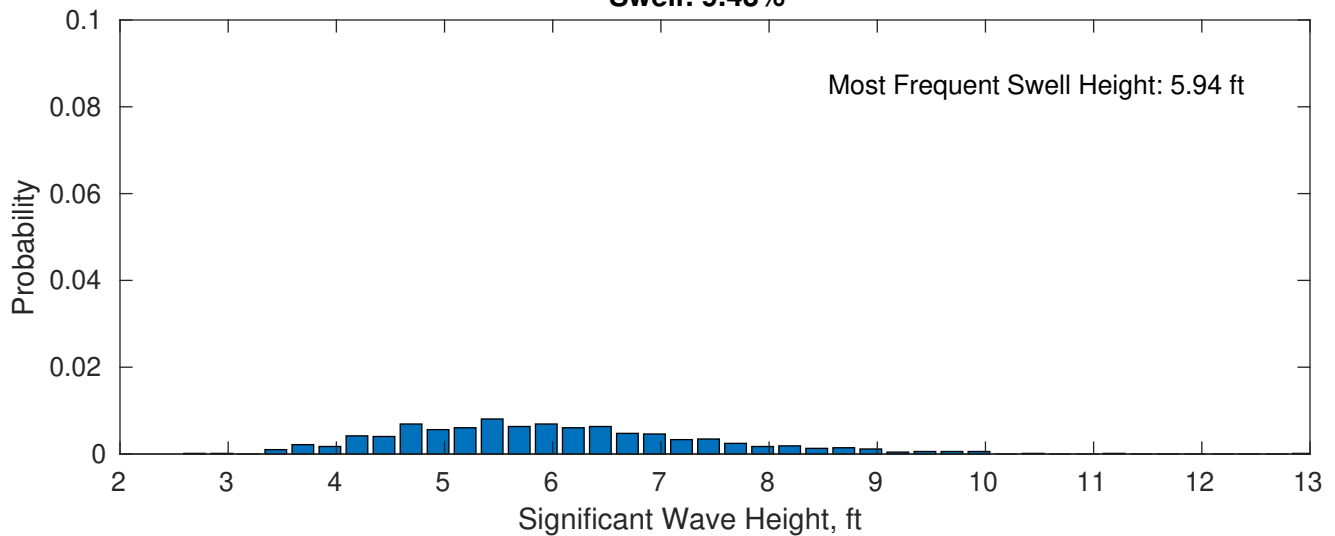
July Wave Height PDF: 1979 - 2015



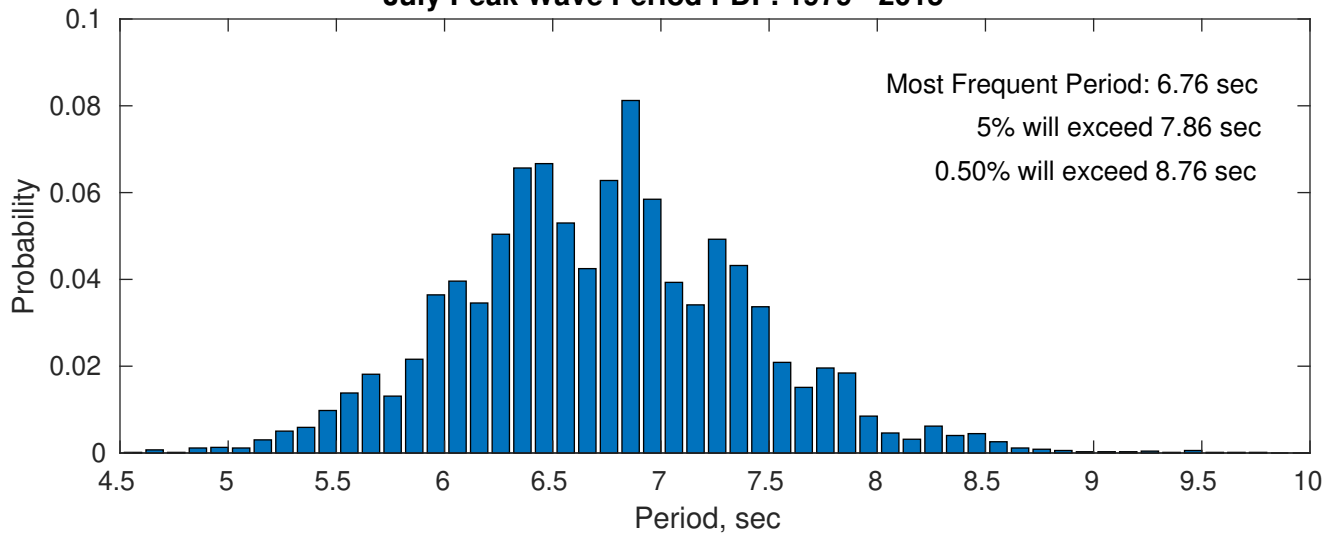
Wind-Sea: 90.57%



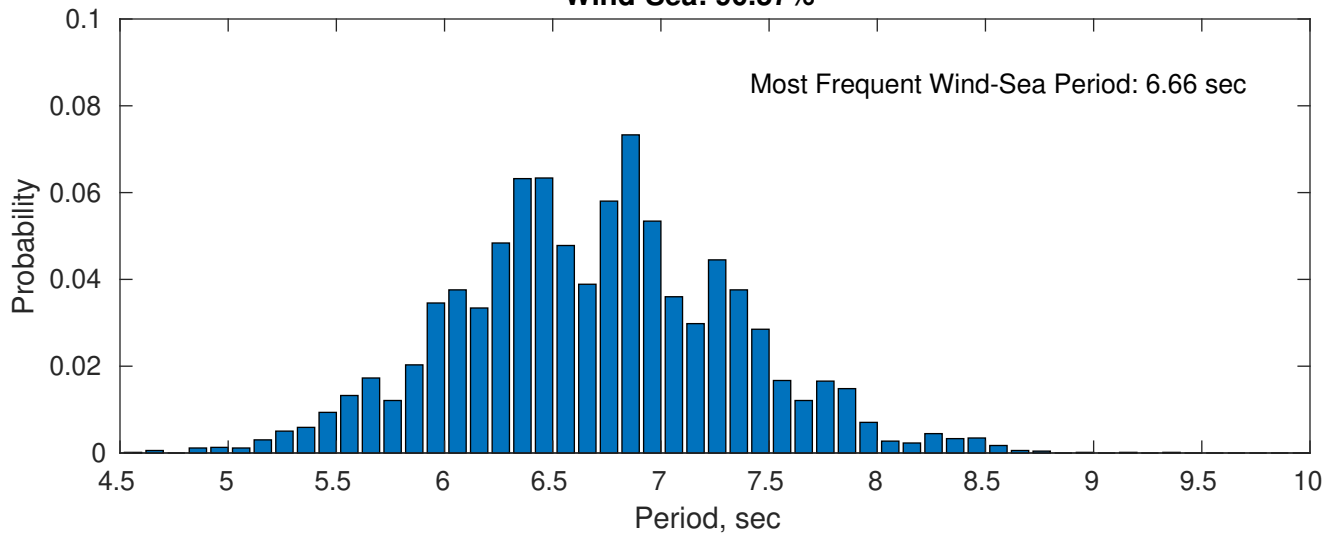
Swell: 9.43%



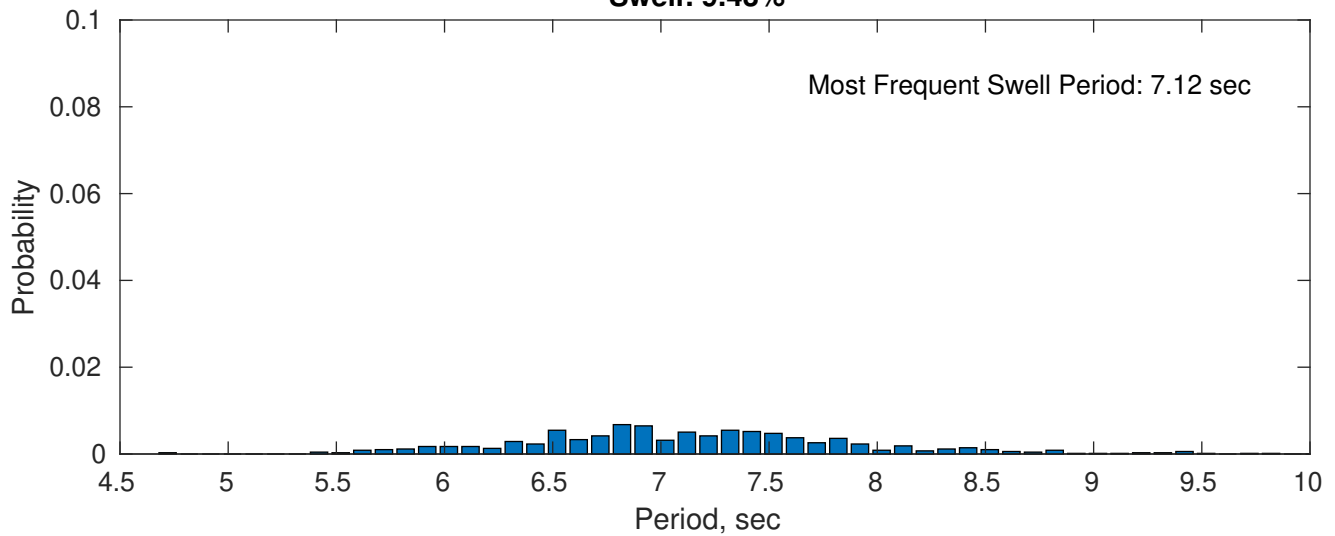
July Peak Wave Period PDF: 1979 - 2015



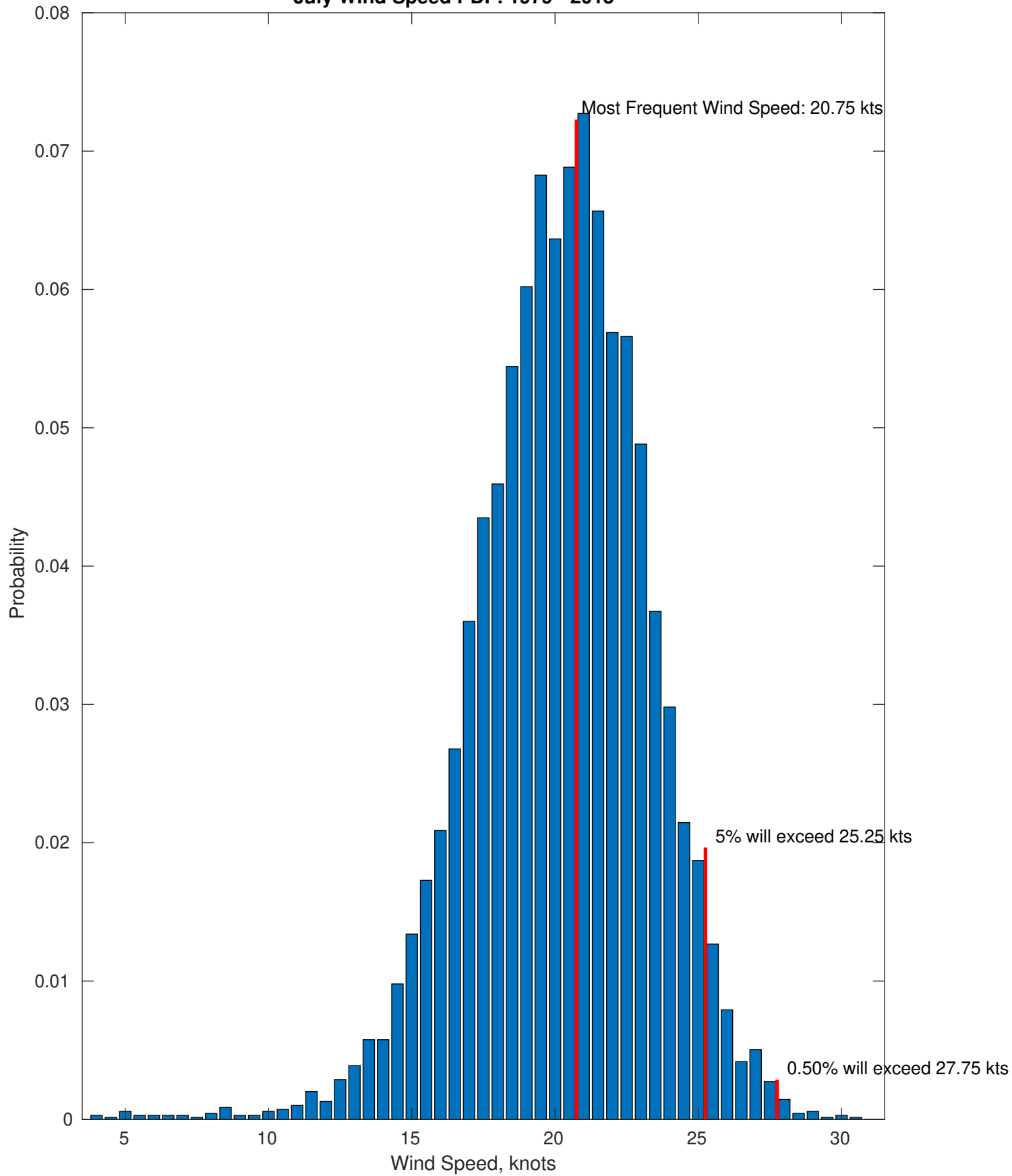
Wind-Sea: 90.57%



Swell: 9.43%



July Wind Speed PDF: 1979 - 2015

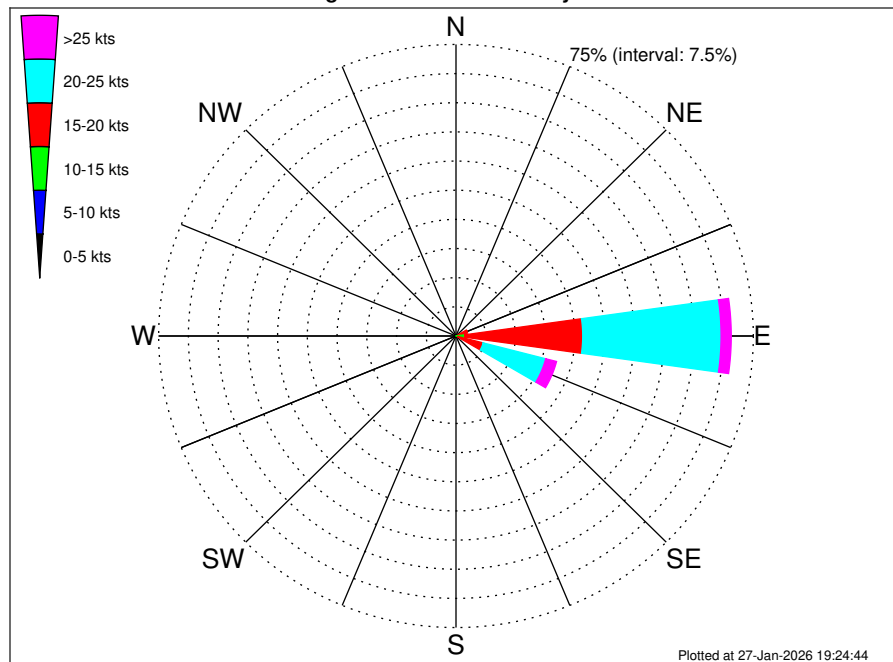


A wind rose plot showing wind frequency by direction and speed. The plot has eight main directional axes labeled N, NE, E, SE, S, SW, W, and NW. Concentric dotted circles represent frequency percentages, with the outermost circle labeled "75% (interval: 7.5%)". A color-coded legend on the left indicates wind speed ranges in feet per second (ft/s): >10 ft/s (magenta), 8-10 ft/s (cyan), 6-8 ft/s (red), 4-6 ft/s (green), 2-4 ft/s (blue), and 0-2 ft/s (black). The dominant wind direction is East (E), followed by East-North-East (ENE) and North-East (NE). The East sector shows higher speeds (red and cyan), while the other sectors are predominantly composed of lower-speed winds (green and blue).

[illegible]

[illegible]

Aruba EBS Climatological Wind Rose for July: 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	.	0.03	.	.	.	.	.	.	.	.	.	.	.	0.04
5 - 10 kts	0.03	0.06	0.01	0.09	0.04	0.04	0.04	.	0.03	0.01	.	.	0.01	.	.	.	0.37
10 - 15 kts	.	0.01	0.03	0.62	2.15	0.49	0.03	0.01	0.03	.	.	.	.	.	.	.	3.37
15 - 20 kts	.	.	.	2.32	29.75	6.55	0.04	.	.	.	.	.	.	.	.	.	38.67
20 - 25 kts	.	.	0.01	0.85	34.89	16.29	0.07	.	.	.	.	.	.	.	.	.	52.12
25 - 30 kts	.	.	0.01	.	2.56	2.78	0.03	.	.	.	.	.	.	.	.	.	5.39
30 - 35 kts	.	.	.	.	.	0.04	.	.	.	.	.	.	.	.	.	.	0.04
35 - 40 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
40 - 45 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
45 - 50 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	0.03	0.07	0.09	3.87	69.43	26.20	0.22	0.01	0.06	0.01	.	.	0.01	.	.	.	100.00