

Aruba EBS - September

Latitude: 13.06 N Longitude: 69.89 W

Weather Days

Wave Height > 6.6 ft Mean: 8.9 days Range: 3.8 - 13.9 days p50:7.5 days p75:6 days p90:4 days
Wave Height > 8.2 ft Mean: 1.3 days Range: 0.0 - 2.9 days p50:3 days p75:1.5 days p90:0.5 days
Wave Height > 10.0 ft Mean: 0.2 days Range: 0.0 - 0.5 days p50:30 days p75:1 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 7.4 days Range: 3.1 - 11.8 days p50:6 days p75:5 days p90:4 days
Wind Speed > 21.0 knots Mean: 4.6 days Range: 1.2 - 8.0 days p50:4 days p75:2.5 days p90:1.5 days
Wind Speed > 25.0 knots Mean: 0.4 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 3.5 times per month A 2 day or longer window will statistically occur 2.7 times per month A 3 day or longer window will statistically occur 2.0 times per month
Wave Height < 8.2 ft	A 1 day or longer window will statistically occur 1.8 times per month A 2 day or longer window will statistically occur 1.7 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: 4 - 6 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: 78% / 22%

Winds

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

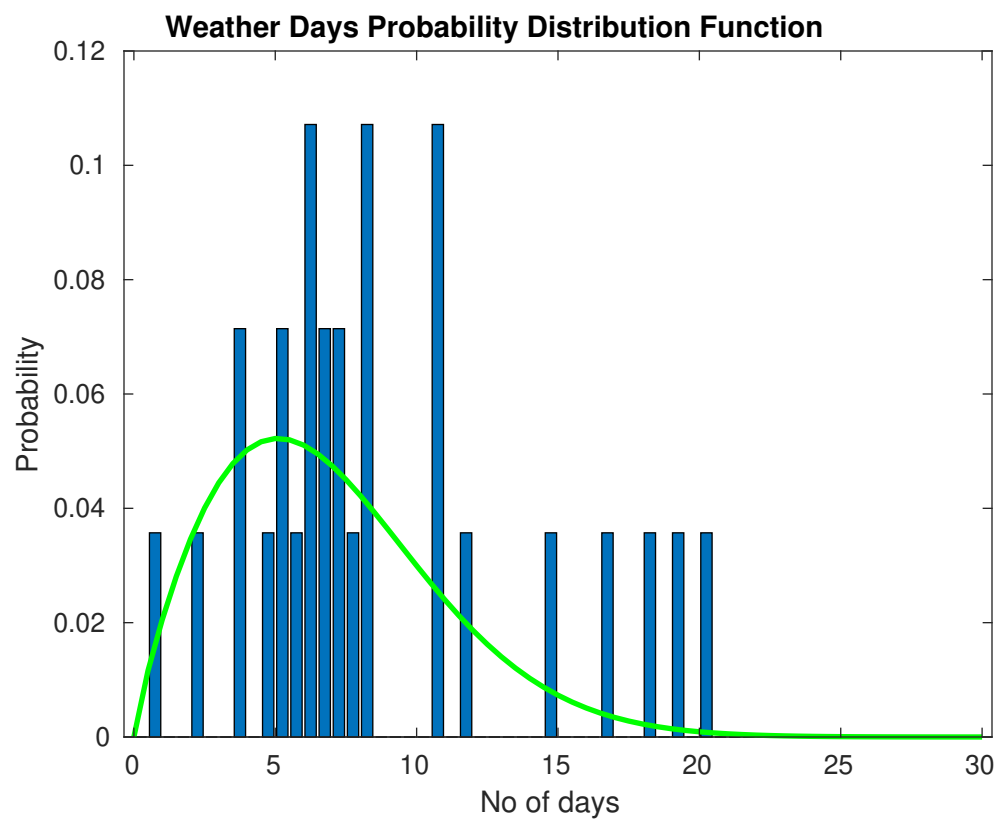
Currents

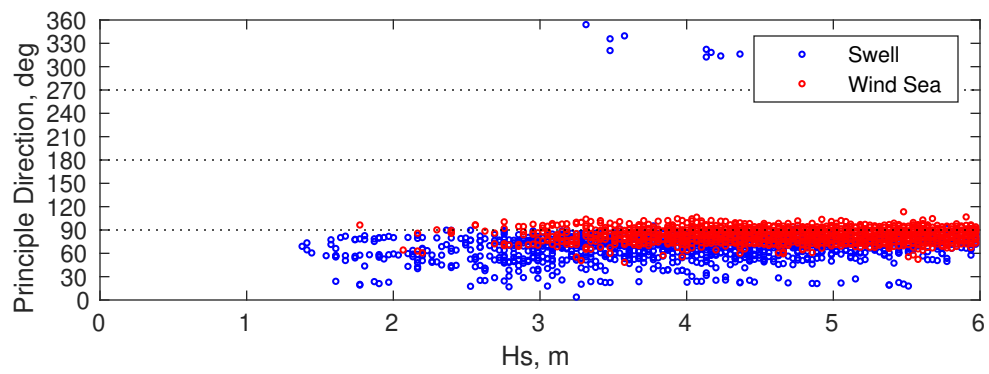
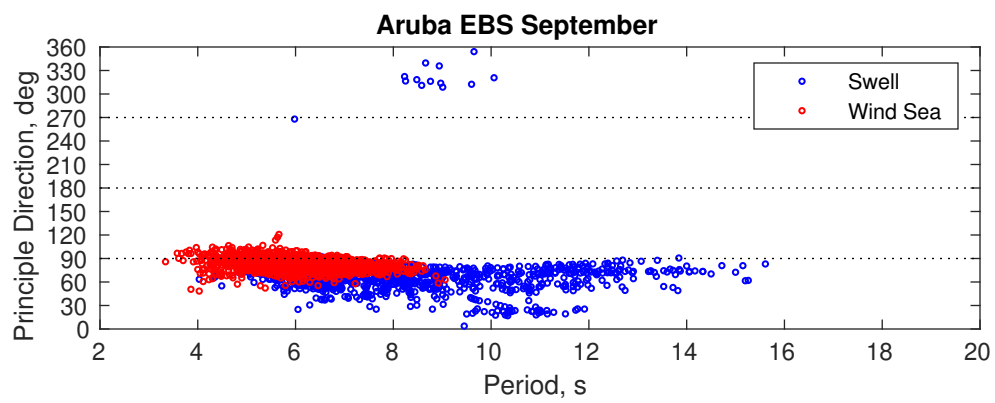
Mean Speed: 0.50-0.75 kts
The currents will occasionally reach 2.00-2.25 kts, but rarely greater.
Principle Direction, to: WNW

Weather Days
Current Speed > 1.0 knots Mean: 10.8 days Range: 3.2 - 18.3 days p50:10 days p75:7 days p90:2 days
Current Speed > 1.5 knots Mean: 3.3 days Range: 0.0 - 8.2 days p50:2 days p75:1 days p90:1 days
Current Speed > 2.0 knots Mean: 0.3 days Range: 0.0 - 1.2 days p50:1 days p75:1 days p90:1 days

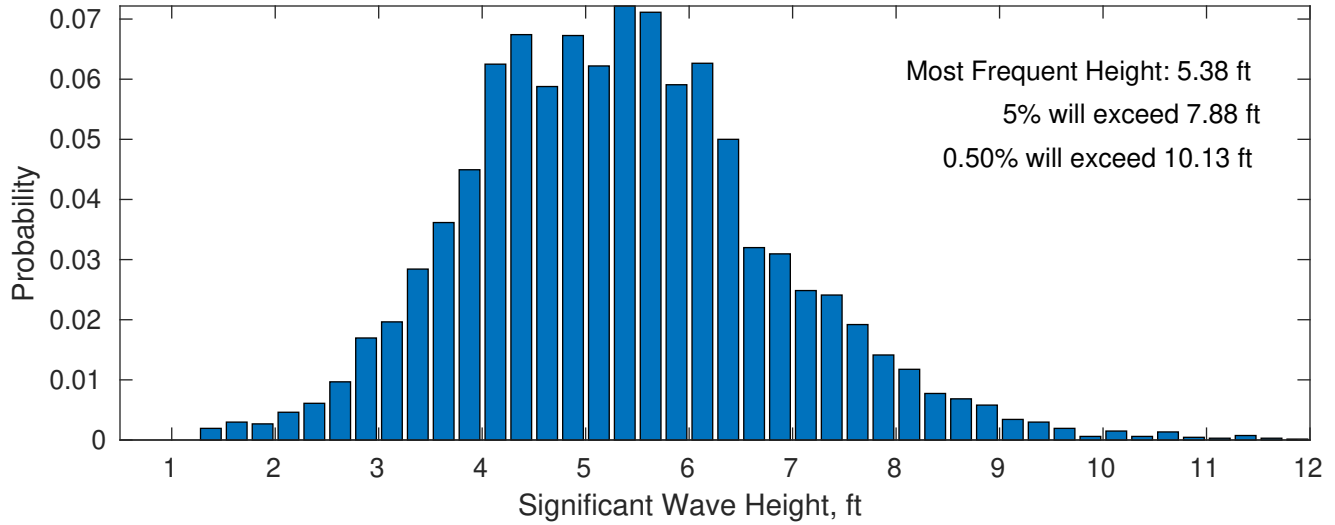
Severe Storms

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

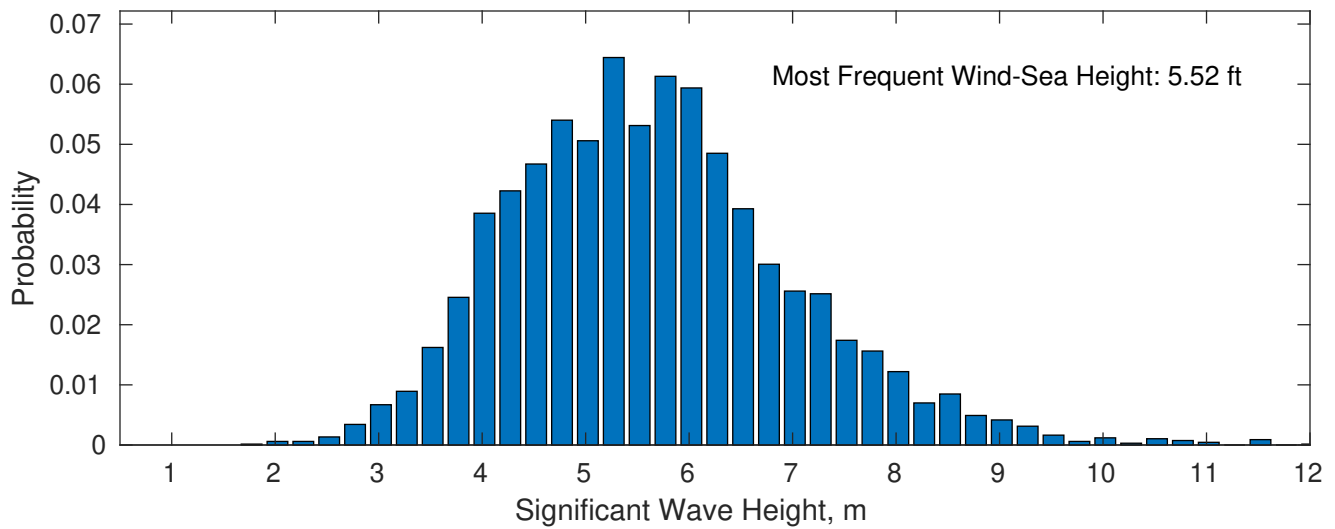




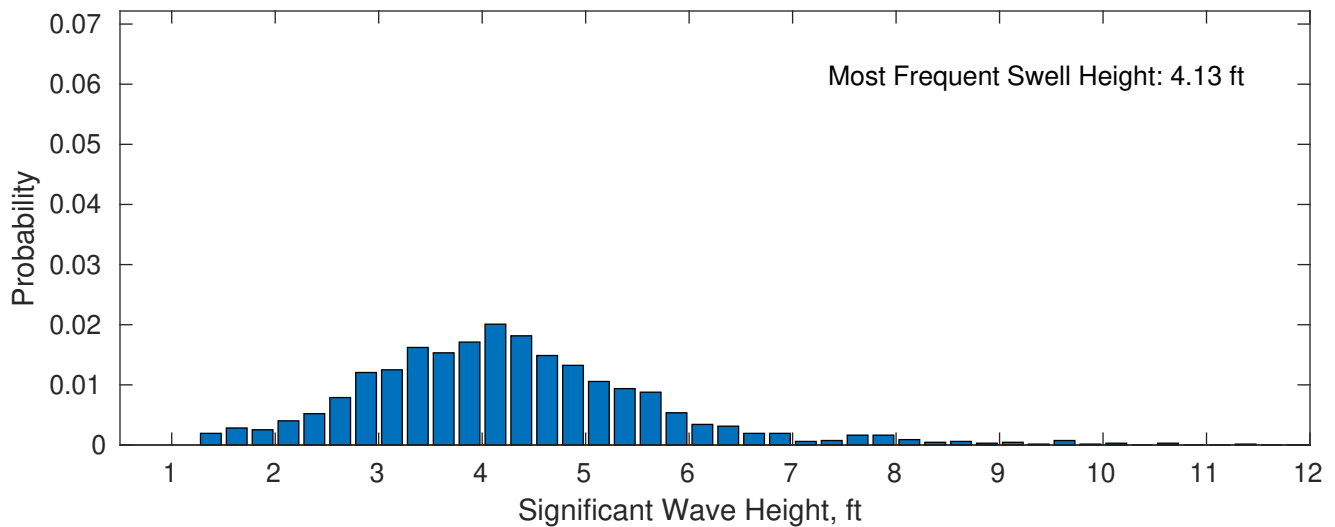
September Wave Height PDF: 1979 - 2015



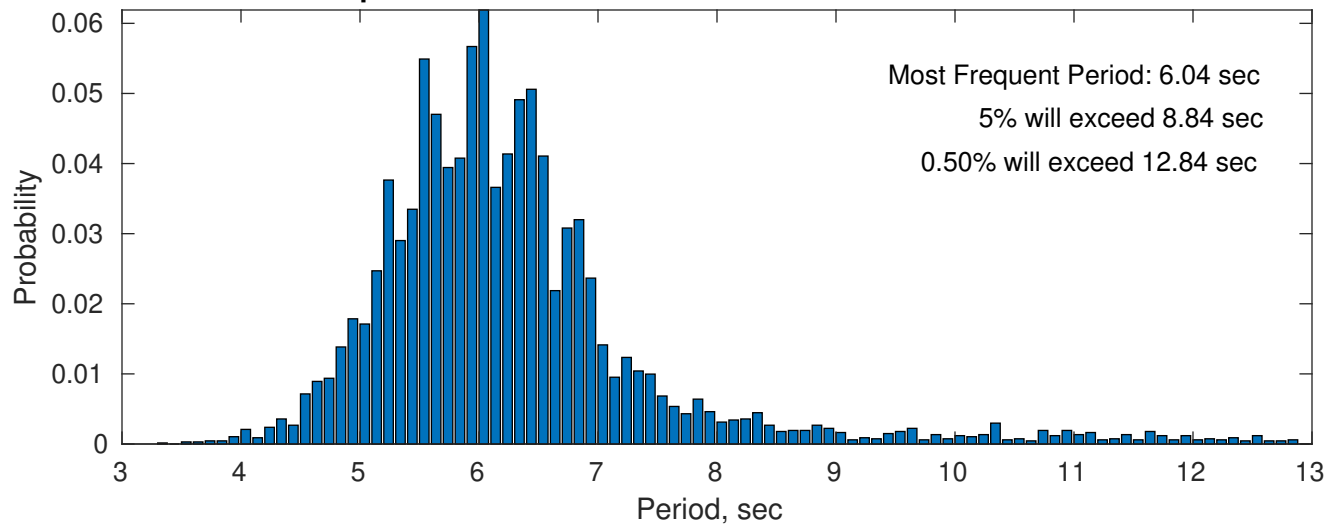
Wind-Sea: 78.17%



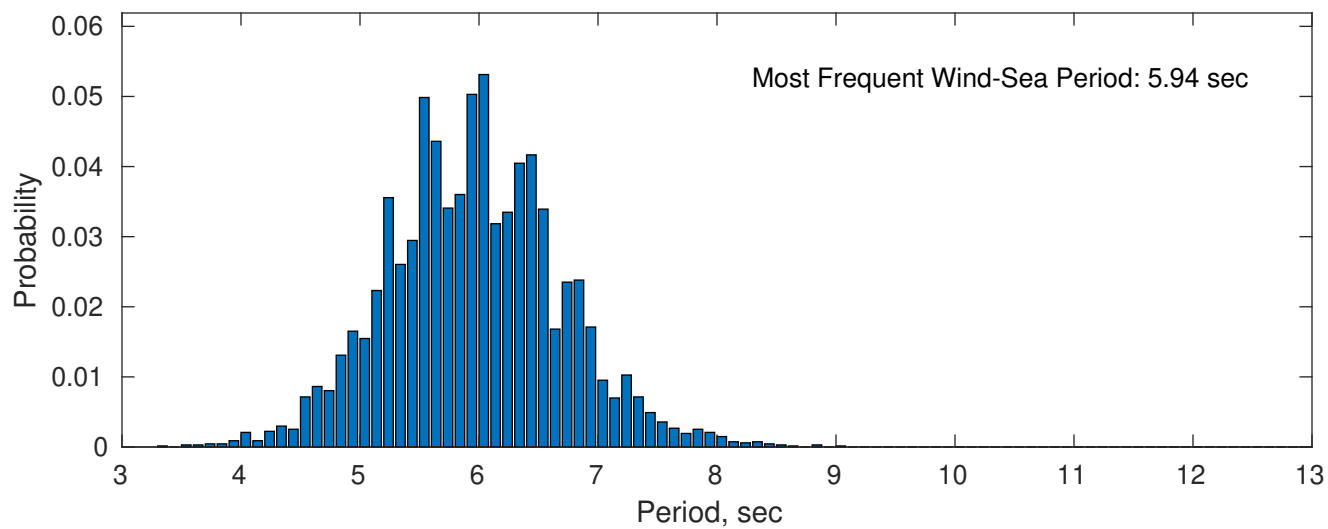
Swell: 21.83%



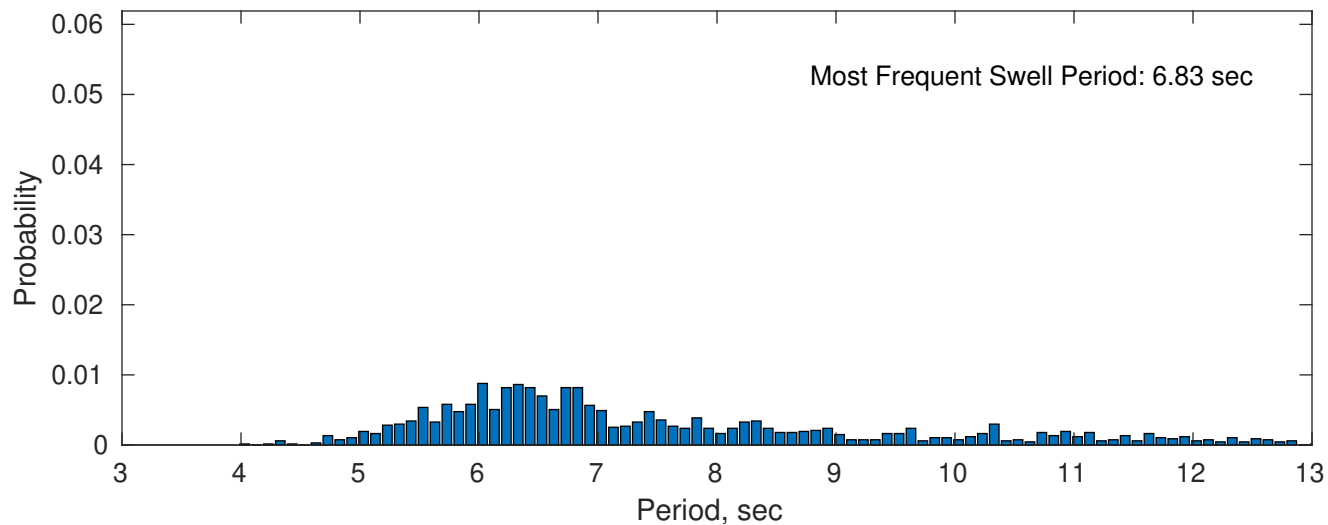
September Peak Wave Period PDF: 1979 - 2015



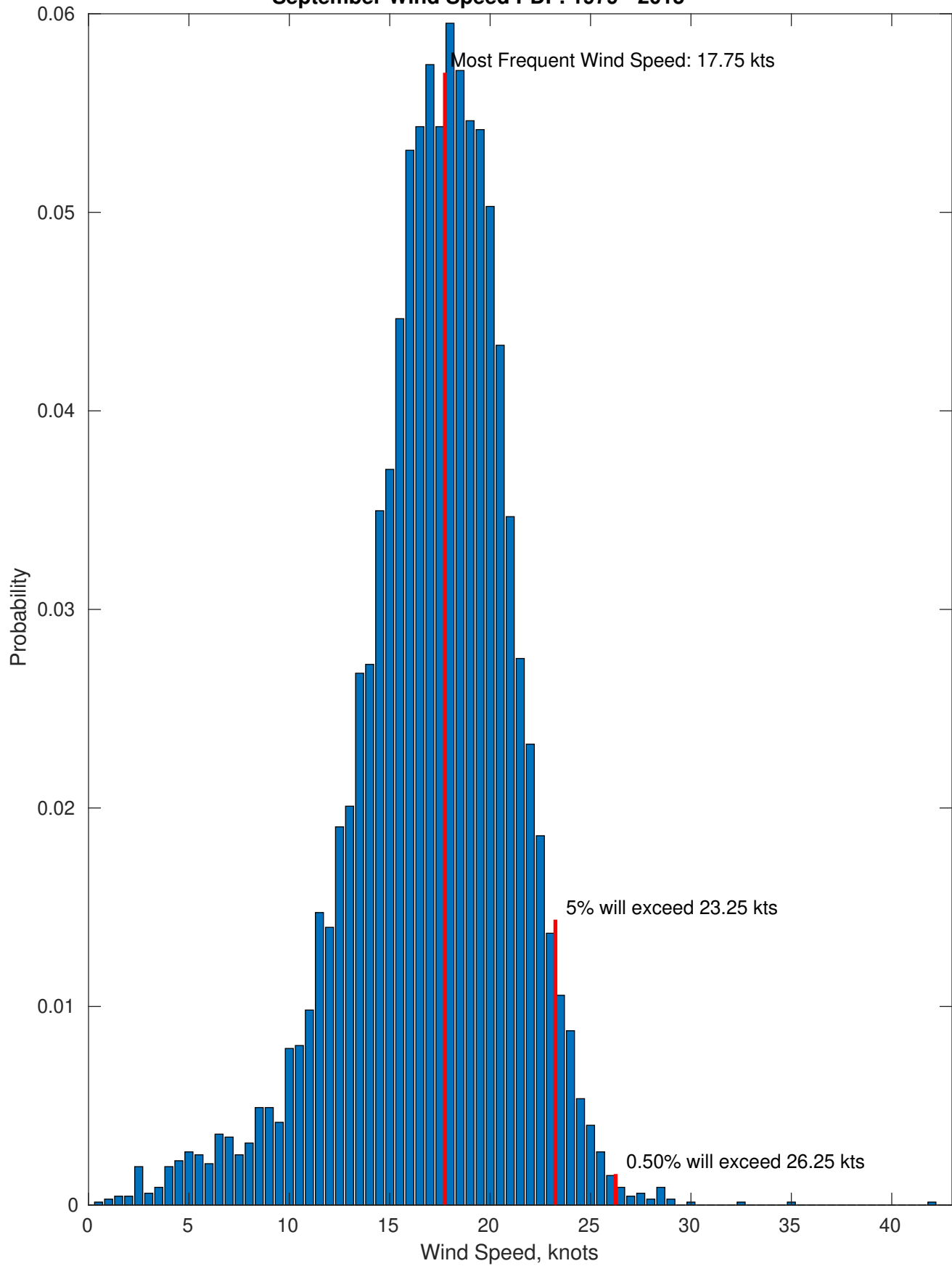
Wind-Sea: 78.17%



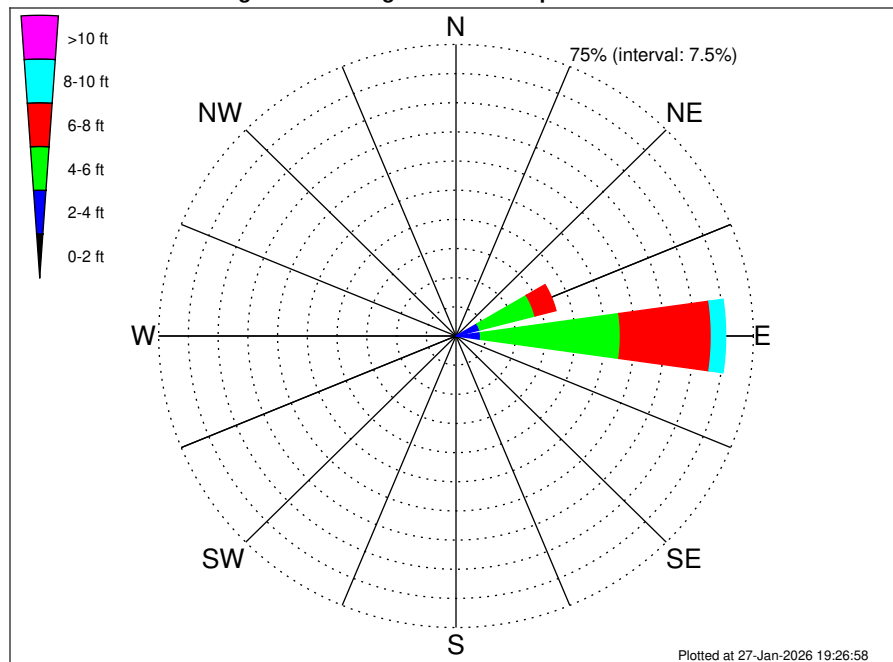
Swell: 21.83%



September Wind Speed PDF: 1979 - 2015



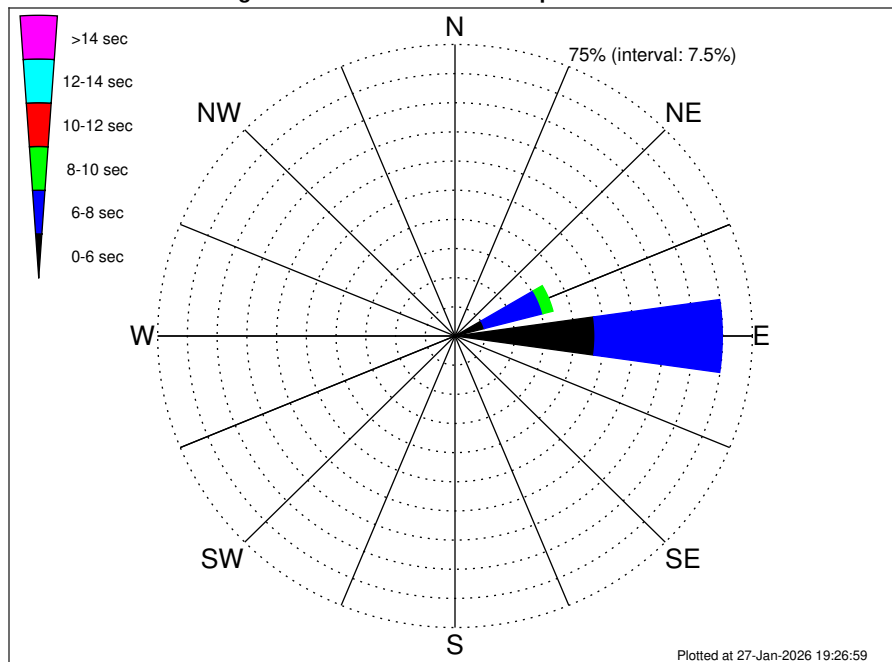
Aruba EBS Climatological WaveHeight Rose for September: 1979 - 2015



Joint Frequency Distribution Table

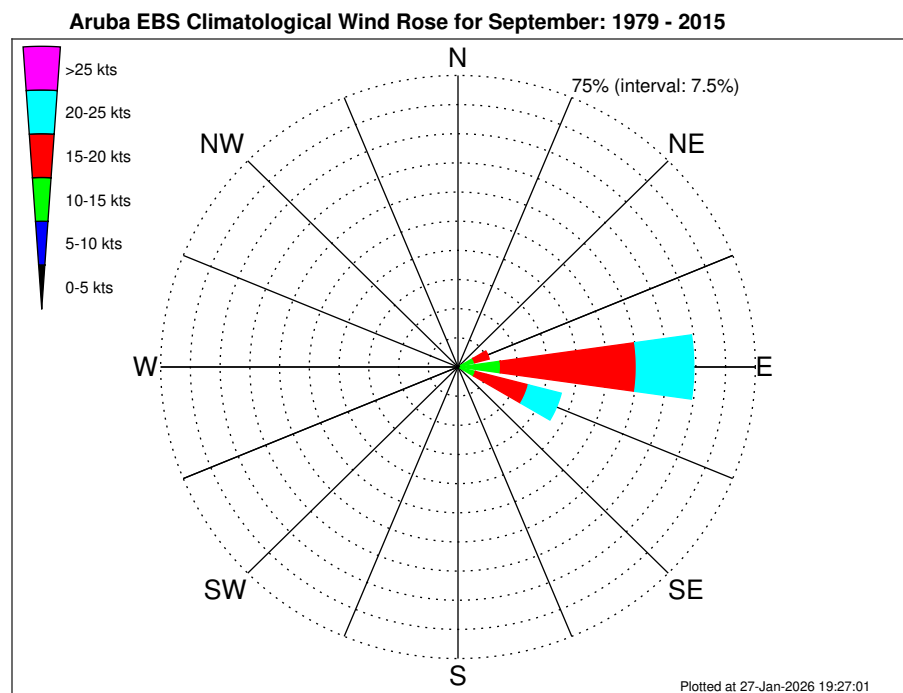
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 ft	•	0.09	0.10	0.34	0.12	•	•	•	•	•	•	•	•	•	•	•	0.65
2 - 4 ft	0.03	0.27	1.76	5.80	6.09	0.12	•	•	•	•	•	•	•	•	0.01	0.03	14.11
4 - 6 ft	•	0.34	0.89	14.43	35.27	0.19	•	•	•	•	•	•	0.01	•	0.12	•	51.26
6 - 8 ft	•	•	0.03	5.48	22.95	0.03	•	•	•	•	•	•	•	•	•	•	28.48
8 - 10 ft	•	•	•	1.24	3.60	•	•	•	•	•	•	•	•	•	•	•	4.84
10 - 12 ft	•	•	0.01	0.18	0.34	•	•	•	•	•	•	•	•	•	•	•	0.54
12 - 14 ft	•	•	•	0.03	0.06	•	•	•	•	•	•	•	•	•	•	•	0.09
14 - 16 ft	•	•	•	•	0.01	•	•	•	•	•	•	•	•	•	•	•	0.01
16 - 18 ft	•	•	•	0.01	•	•	•	•	•	•	•	•	•	•	•	•	0.01
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.03	0.70	2.80	27.51	68.44	0.34	•	•	•	•	•	•	0.01	•	0.13	0.03	100.00

Aruba EBS Climatological WavePeriod Rose for September: 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	0.18	0.01	•	•	•	•	•	•	•	•	•	•	0.22
4 - 6 sec	•	•	0.19	7.62	35.15	0.33	•	•	•	•	•	•	0.01	•	•	•	43.30
6 - 8 sec	•	0.06	1.38	15.27	32.10	•	•	•	•	•	•	•	•	•	•	•	48.81
8 - 10 sec	0.03	0.13	0.68	2.63	0.51	•	•	•	•	•	•	•	•	•	0.12	0.03	4.14
10 - 12 sec	•	0.51	0.42	1.26	0.25	•	•	•	•	•	•	•	•	•	0.01	•	2.46
12 - 14 sec	•	•	0.10	0.58	0.21	•	•	•	•	•	•	•	•	•	•	•	0.89
14 - 16 sec	•	•	•	0.13	0.04	•	•	•	•	•	•	•	•	•	•	•	0.18
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.03	0.70	2.80	27.51	68.44	0.34	•	•	•	•	•	•	0.01	•	0.13	0.03	100.00



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	0.07	0.06	0.06	0.12	0.12	0.07	0.09	0.10	0.04	•	0.01	0.01	0.03	0.01	•	0.06	0.88
5 - 10 kts	0.10	0.19	0.33	0.65	0.97	0.55	0.21	0.15	0.03	0.03	0.04	0.03	0.01	0.01	0.03	0.04	3.39
10 - 15 kts	•	0.04	0.33	3.56	9.66	3.91	0.55	0.04	•	0.03	•	0.03	0.03	0.06	0.01	•	18.26
15 - 20 kts	•	0.03	0.07	3.81	34.26	13.81	0.54	0.07	•	•	0.01	0.03	•	•	•	•	52.63
20 - 25 kts	0.01	0.03	•	0.39	14.48	8.56	0.12	•	•	•	0.01	•	•	•	•	•	23.60
25 - 30 kts	•	•	•	•	0.51	0.62	•	•	0.01	•	•	•	•	•	0.01	•	1.16
30 - 35 kts	•	•	•	•	•	0.01	•	•	•	0.01	•	•	•	•	•	•	0.03
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	0.01	•	•	•	0.01
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	0.01	•	•	•	•	•	0.01
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.19	0.36	0.79	8.53	59.99	27.54	1.50	0.37	0.10	0.07	0.10	0.10	0.09	0.09	0.06	0.10	100.00