

Aruba EBS - February

Latitude: 13.06 N Longitude: 69.89 W

Weather Days

Wave Height > 6.6 ft Mean: 17.1 days Range: 11.7 - 22.5 days p50:17 days p75:12.5 days p90:11 days

Wave Height > 8.2 ft Mean: 6.2 days Range: 1.8 - 10.7 days p50:4.5 days p75:3.5 days p90:1 days

Wave Height > 10.0 ft Mean: 1.2 days Range: 0.0 - 3.3 days p50:10.5 days p75:1.5 days p90:1 days

Wind Speed > 20.0 knots Mean: 9.2 days Range: 4.6 - 13.7 days p50:8.5 days p75:6 days p90:4.5 days

Wind Speed > 21.0 knots Mean: 5.8 days Range: 2.1 - 9.5 days p50:5 days p75:3.5 days p90:2 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 2.3 times per month
A 2 day or longer window will statistically occur 1.8 times per month
A 3 day or longer window will statistically occur 1.2 times per month

Wave Height < 8.2 ft
A 1 day or longer window will statistically occur 2.6 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 1.7 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 0.9 times per month
A 3 day or longer window will statistically occur 0.8 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 14 - 16 sec, but rarely longer.

Principle Direction, from: ENE

WindSea/Swell: 70% / 30%

Winds

Mean Speed: 15 - 20 kts

The winds will occasionally reach 25 - 30 kts, but rarely greater.

Principle Direction, from: E

Currents

Mean Speed: 1.25-1.50 kts

The currents will occasionally reach 2.25-2.50 kts, but rarely greater.

Principle Direction, to: WNW

Weather Days

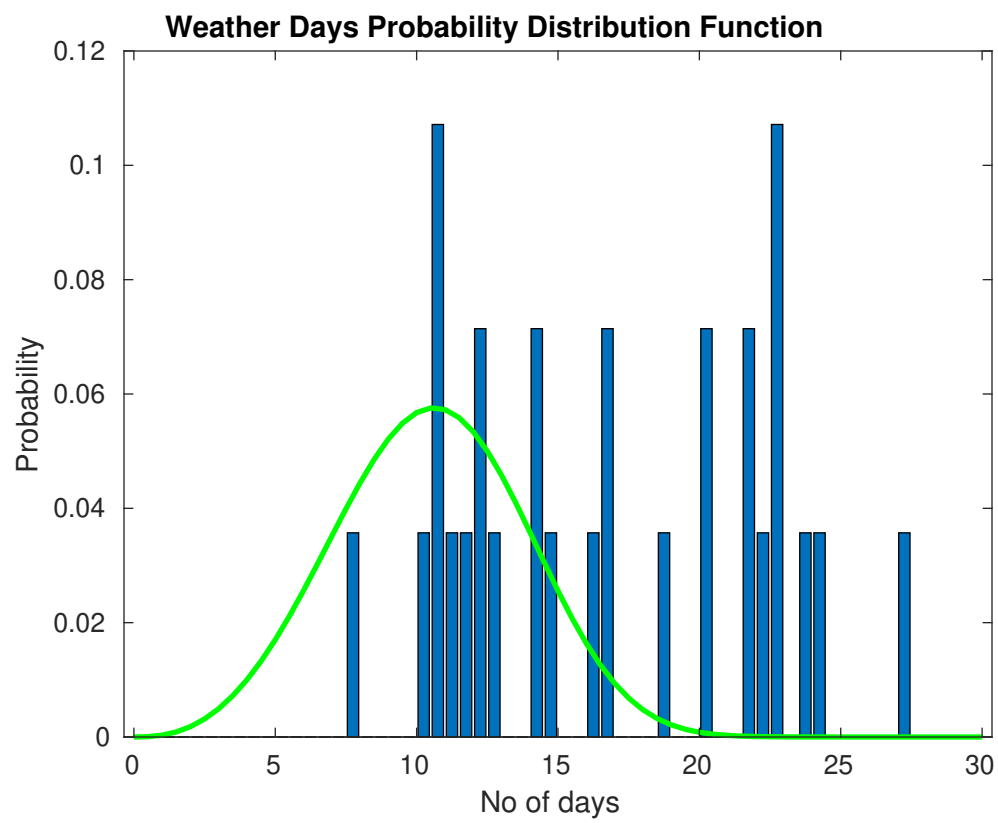
Current Speed > 1.0 knots Mean: 22.0 days Range: 14.7 - 29.3 days p50:27 days p75:18 days p90:11 days

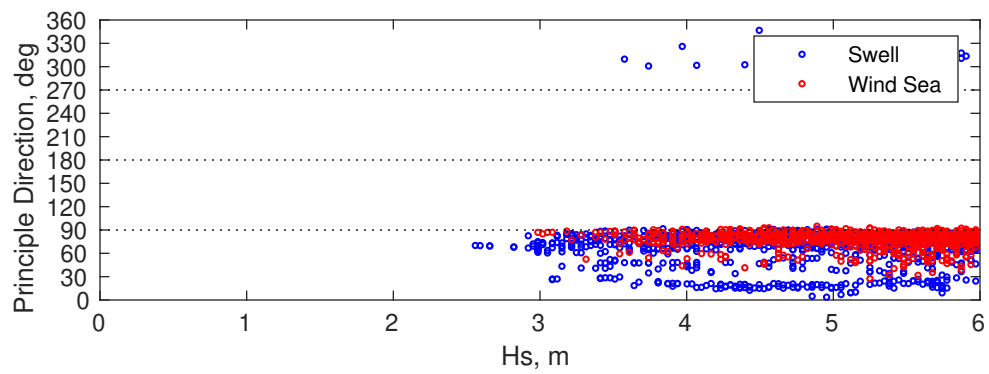
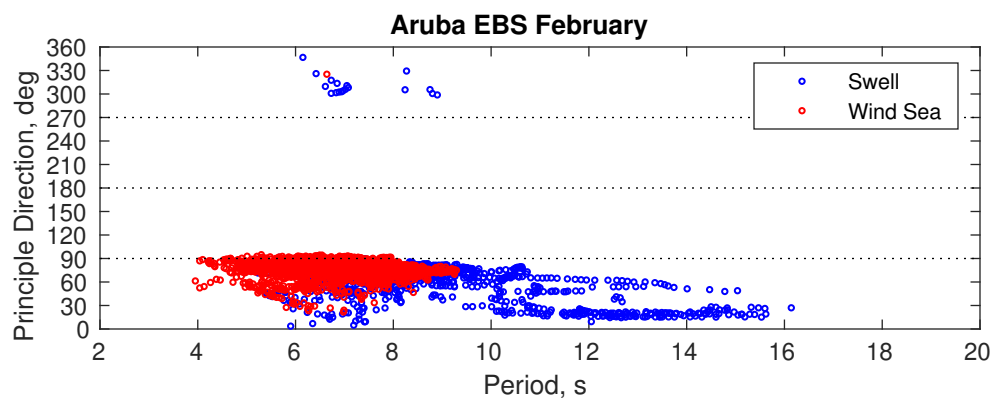
Current Speed > 1.5 knots Mean: 7.9 days Range: 1.5 - 14.4 days p50:10 days p75:2 days p90:1 days

Current Speed > 2.0 knots Mean: 1.2 days Range: 0.0 - 3.5 days p50:1 days p75:1 days p90:1 days

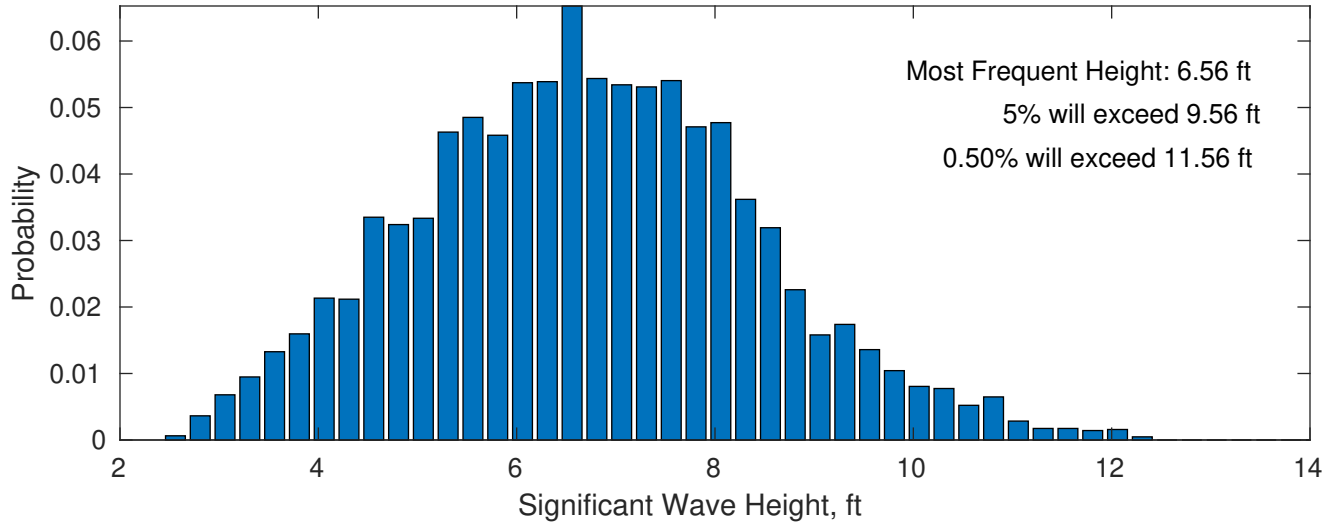
Severe Storms

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

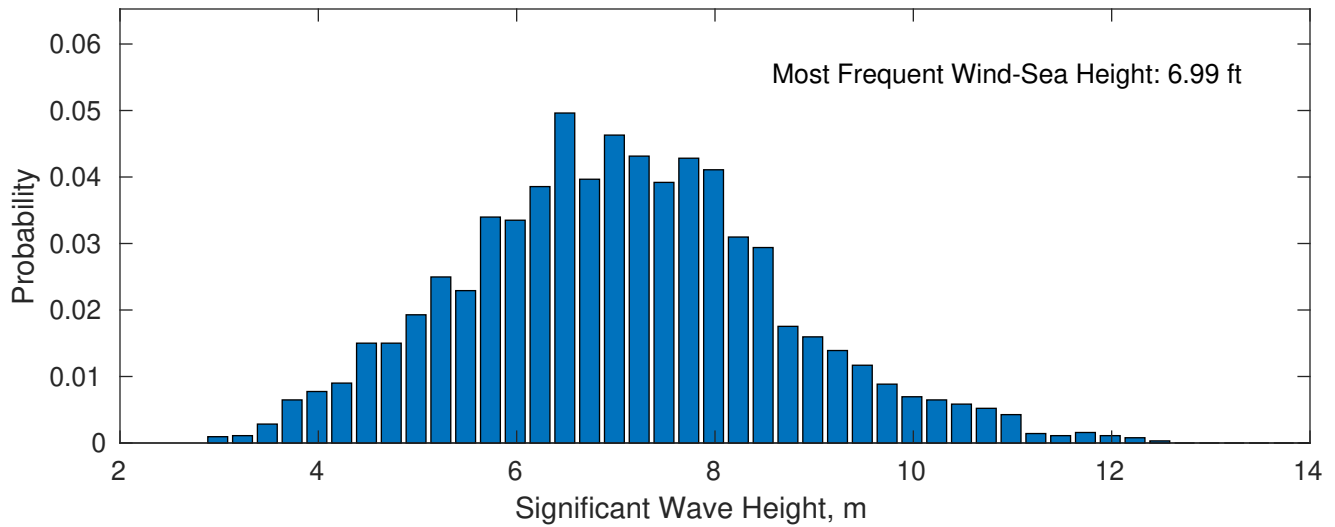




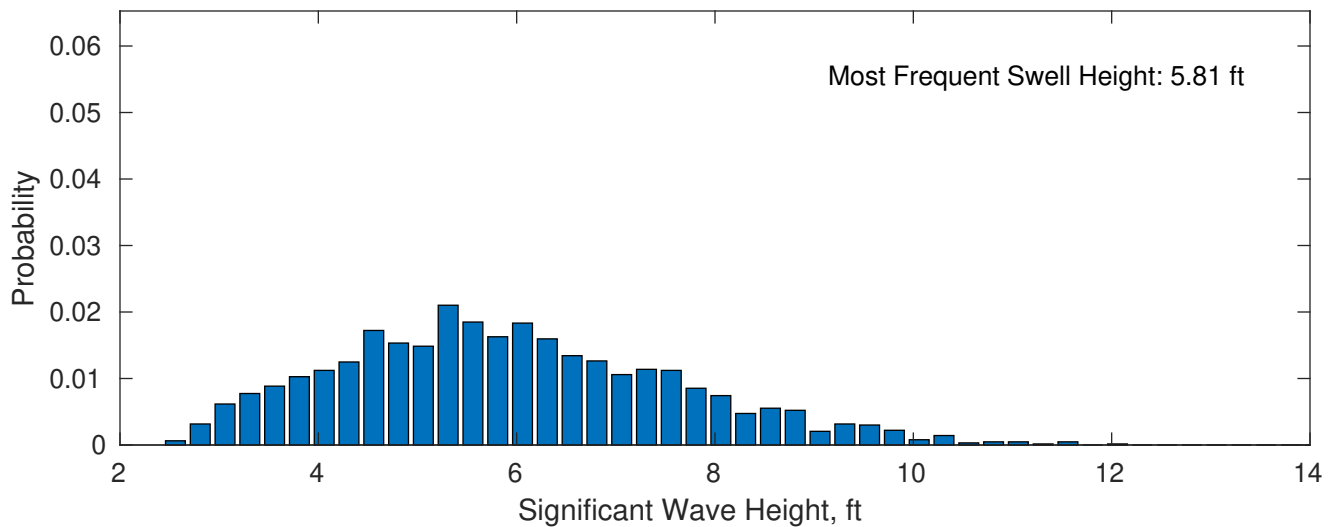
February Wave Height PDF: 1979 - 2015



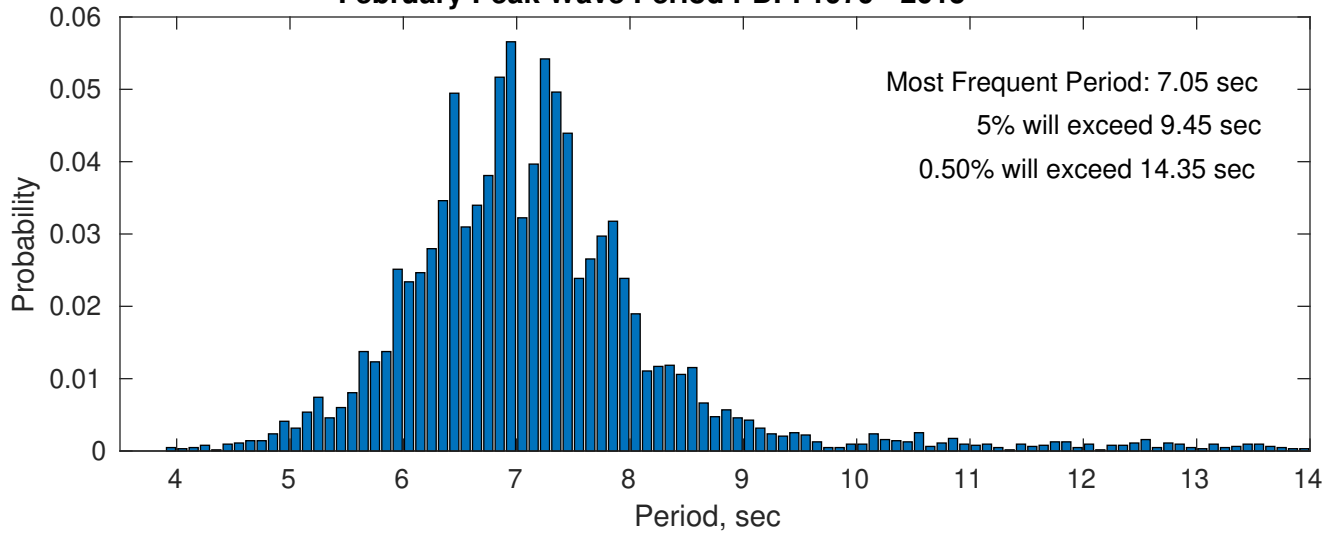
Wind-Sea: 69.66%



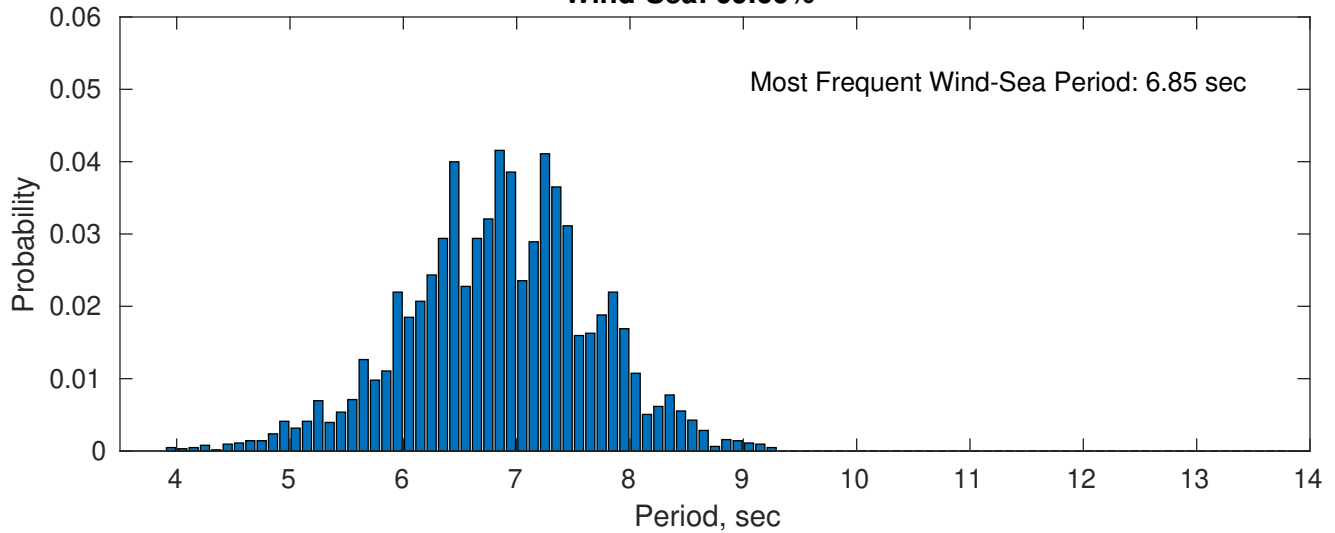
Swell: 30.34%



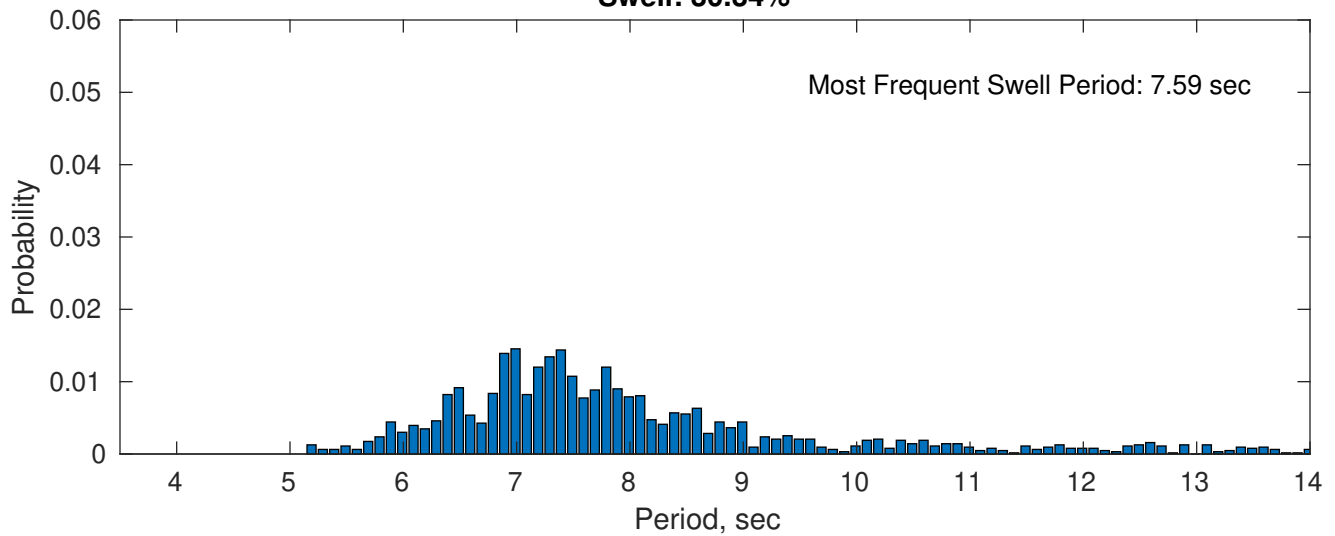
February Peak Wave Period PDF: 1979 - 2015



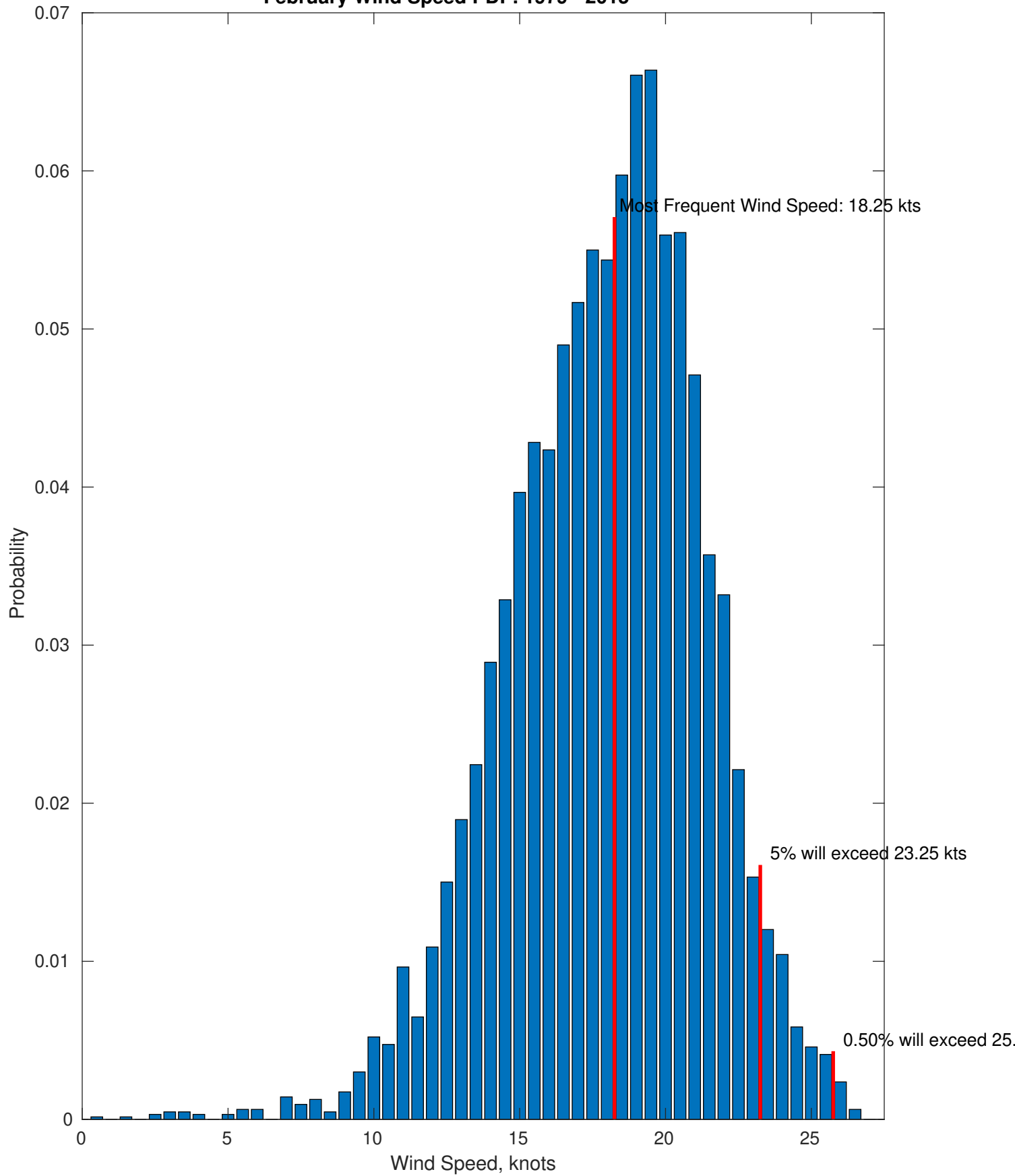
Wind-Sea: 69.66%



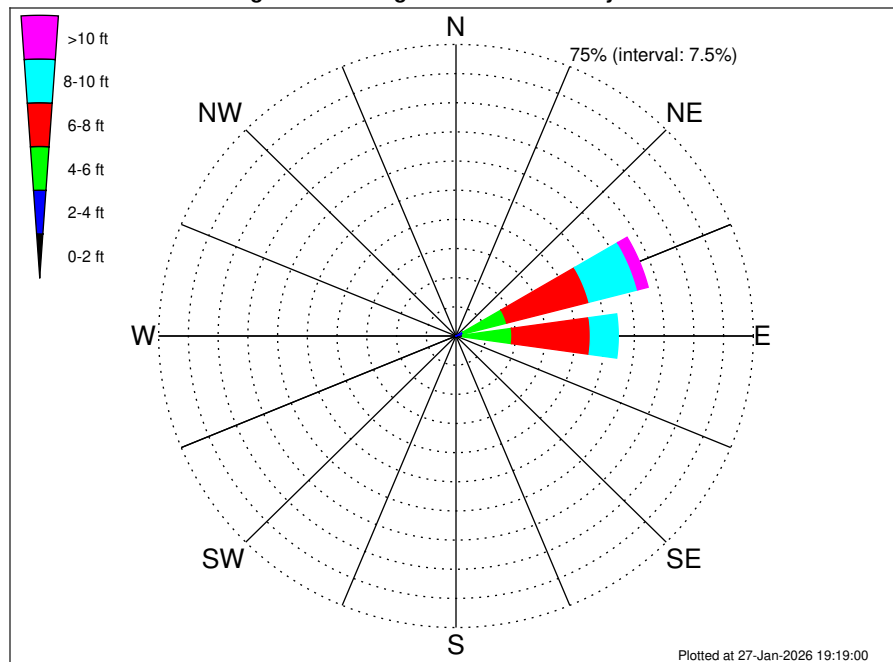
Swell: 30.34%



February Wind Speed PDF: 1979 - 2015



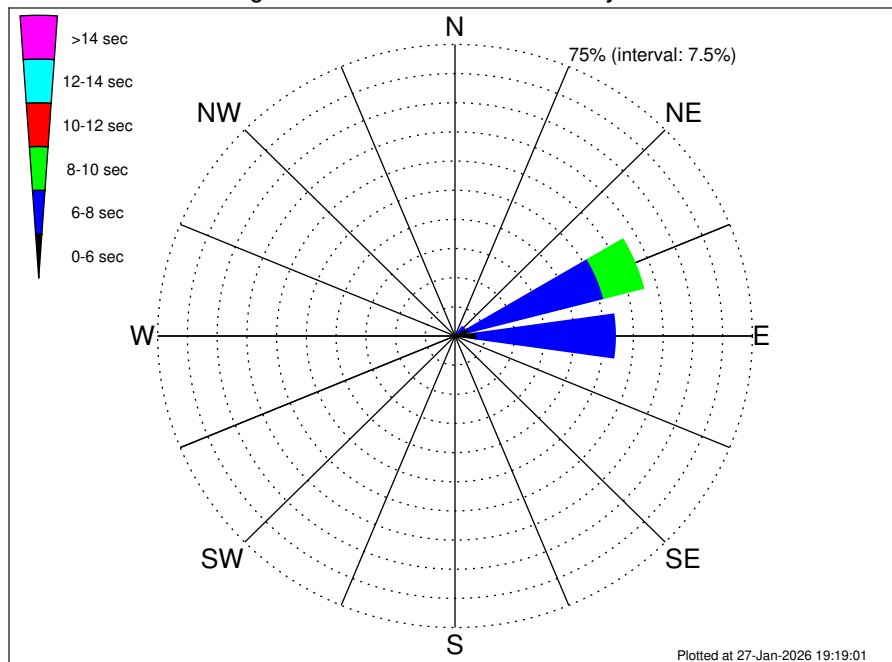
Aruba EBS Climatological WaveHeight Rose for February: 1979 - 2015



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	•	0.33	0.40	1.99	1.71	•	•	•	•	•	•	•	•	0.02	0.03	•	4.47
4 - 6 ft	0.11	1.66	1.77	11.20	12.41	•	•	•	•	•	•	•	•	0.08	0.14	0.03	27.40
6 - 8 ft	•	0.71	1.63	21.48	19.79	•	•	•	•	•	•	•	•	•	•	•	43.60
8 - 10 ft	•	0.33	0.55	12.64	7.03	•	•	•	•	•	•	•	•	•	•	•	20.56
10 - 12 ft	•	0.13	0.03	2.59	0.98	•	•	•	•	•	•	•	•	•	•	•	3.73
12 - 14 ft	•	•	0.02	0.17	0.05	•	•	•	•	•	•	•	•	•	•	•	0.24
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.11	3.16	4.39	50.08	41.96	•	•	•	•	•	•	•	•	0.09	0.17	0.03	100.00

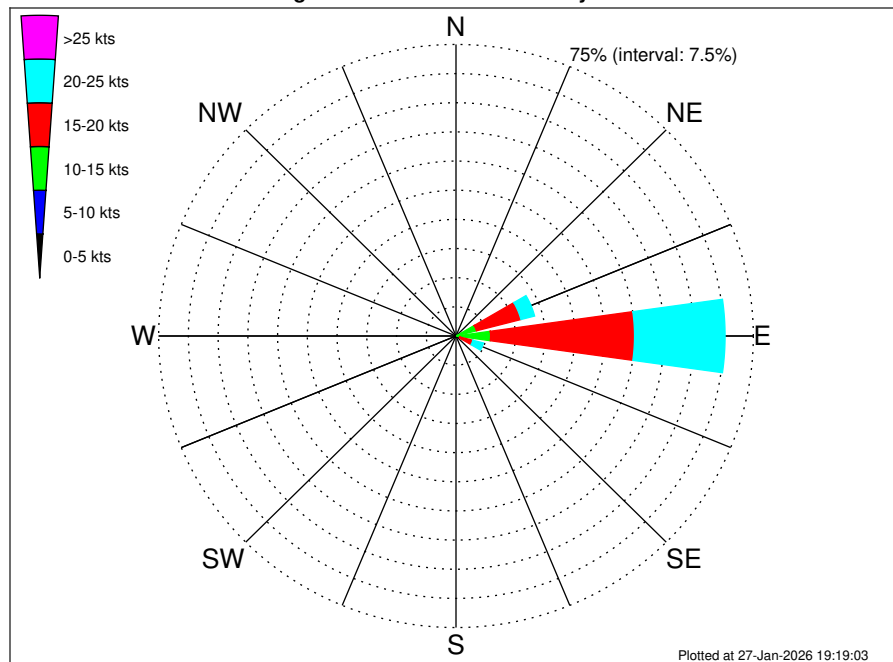
Aruba EBS Climatological WavePeriod Rose for February: 1979 - 2015



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	•	•	•	0.02	•	•	•	•	•	•	•	•	•	•	•	•	0.02
4 - 6 sec	0.02	0.06	1.00	3.60	5.44	•	•	•	•	•	•	•	•	•	•	•	10.11
6 - 8 sec	0.08	0.54	2.01	35.15	34.99	•	•	•	•	•	•	•	•	0.06	0.14	0.02	72.98
8 - 10 sec	•	0.06	0.57	10.37	1.45	•	•	•	•	•	•	•	•	0.03	0.03	0.02	12.53
10 - 12 sec	•	0.82	0.57	0.79	0.08	•	•	•	•	•	•	•	•	•	•	•	2.26
12 - 14 sec	0.02	1.07	0.19	0.16	•	•	•	•	•	•	•	•	•	•	•	•	1.44
14 - 16 sec	•	0.58	0.06	•	•	•	•	•	•	•	•	•	•	•	•	•	0.65
18 - 20 sec	•	0.02	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.02
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.11	3.16	4.39	50.08	41.96	•	•	•	•	•	•	•	•	0.09	0.17	0.03	100.00

Aruba EBS Climatological Wind Rose for February: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	0.02	•	•	•	•	•	•	0.02
0 - 5 kts	0.03	0.02	0.02	•	•	•	•	0.02	•	0.02	0.02	•	0.02	0.03	•	0.02	0.17
5 - 10 kts	0.03	0.08	0.21	0.25	0.28	0.05	0.02	0.02	•	•	•	0.03	•	0.02	0.05	0.02	1.04
10 - 15 kts	•	0.13	0.71	5.07	8.44	0.96	0.02	•	0.02	•	•	0.02	•	•	0.05	0.11	15.52
15 - 20 kts	•	0.02	1.33	11.60	36.31	3.38	0.02	•	•	•	•	•	•	•	0.05	•	52.70
20 - 25 kts	•	•	0.22	3.56	22.84	2.77	•	•	•	•	•	•	•	•	•	•	29.38
25 - 30 kts	•	•	0.03	•	1.01	0.13	•	•	•	•	•	•	•	•	•	•	1.17
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.06	0.24	2.51	20.48	68.88	7.29	0.05	0.03	0.02	0.03	0.02	0.05	0.02	0.05	0.14	0.14	100.00