

Aruba EBS - October

Latitude: 13.06 N Longitude: 69.89 W

Weather Days

Wave Height > 6.6 ft Mean: 4.9 days Range: 1.1 - 8.7 days p50:6 days p75:3.5 days p90:1 days
Wave Height > 8.2 ft Mean: 0.6 days Range: 0.0 - 1.7 days p50:30 days p75:1 days p90:0.5 days
Wave Height > 10.0 ft Mean: 0.0 days Range: 0.0 - 0.2 days p50:30 days p75:30 days p90:30 days

Wind Speed > 20.0 knots Mean: 3.4 days Range: 0.6 - 6.2 days p50:3.5 days p75:1 days p90:0.5 days
Wind Speed > 21.0 knots Mean: 2.0 days Range: 0.0 - 3.9 days p50:1.5 days p75:0.5 days p90:0.5 days
Wind Speed > 25.0 knots Mean: 0.0 days Range: 0.0 - 0.1 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 2.8 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 1.7 times per month
Wave Height < 8.2 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
Wave Height < 10.0 ft	A 1 day or longer window will statistically occur 0.9 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 0.9 times per month

Waves

Mean Height: 4 - 6 ft
The wave heights will occasionally reach 8 - 10 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: 62% / 38%

Winds

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

Currents

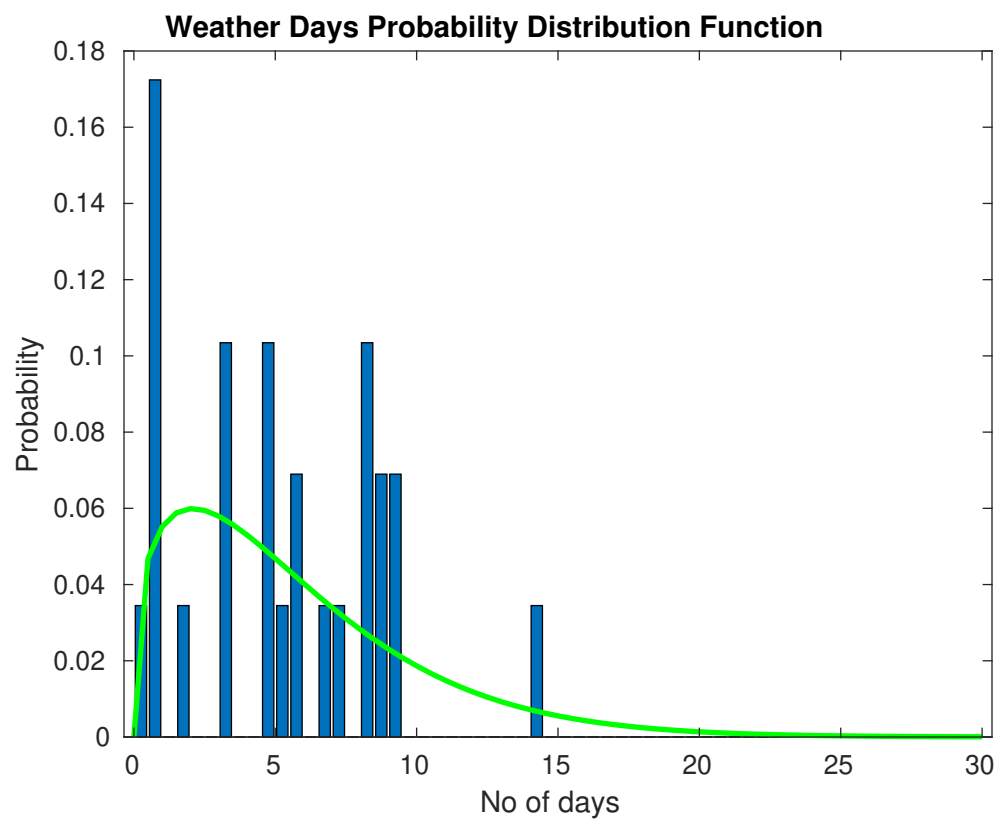
Mean Speed: 0.50-0.75 kts
The currents will occasionally reach 1.75-2.00 kts, but rarely greater.
Principle Direction, to: WNW

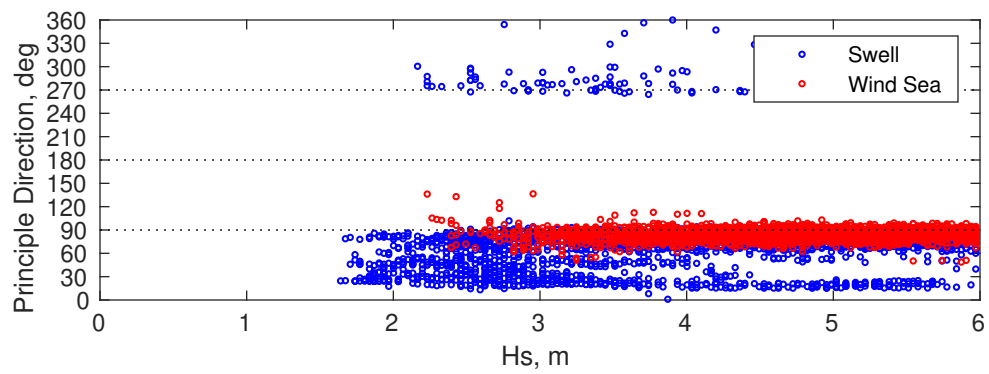
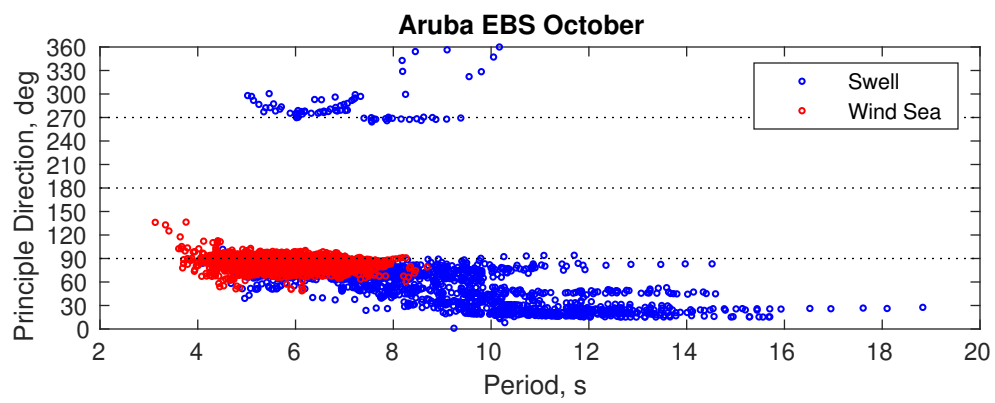
Weather Days

Current Speed > 1.0 knots Mean: 9.1 days Range: 1.7 - 16.5 days p50:8 days p75:5 days p90:3 days
Current Speed > 1.5 knots Mean: 2.6 days Range: 0.0 - 6.9 days p50:2 days p75:1 days p90:1 days
Current Speed > 2.0 knots Mean: 0.1 days Range: 0.0 - 0.4 days p50:1 days p75:1 days p90:1 days

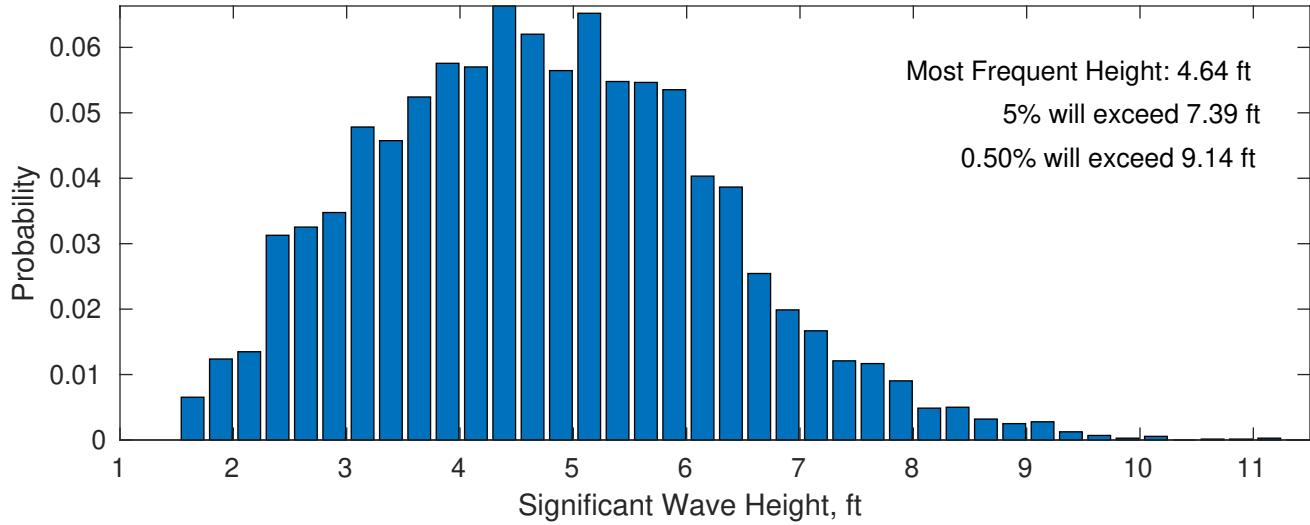
Severe Storms

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

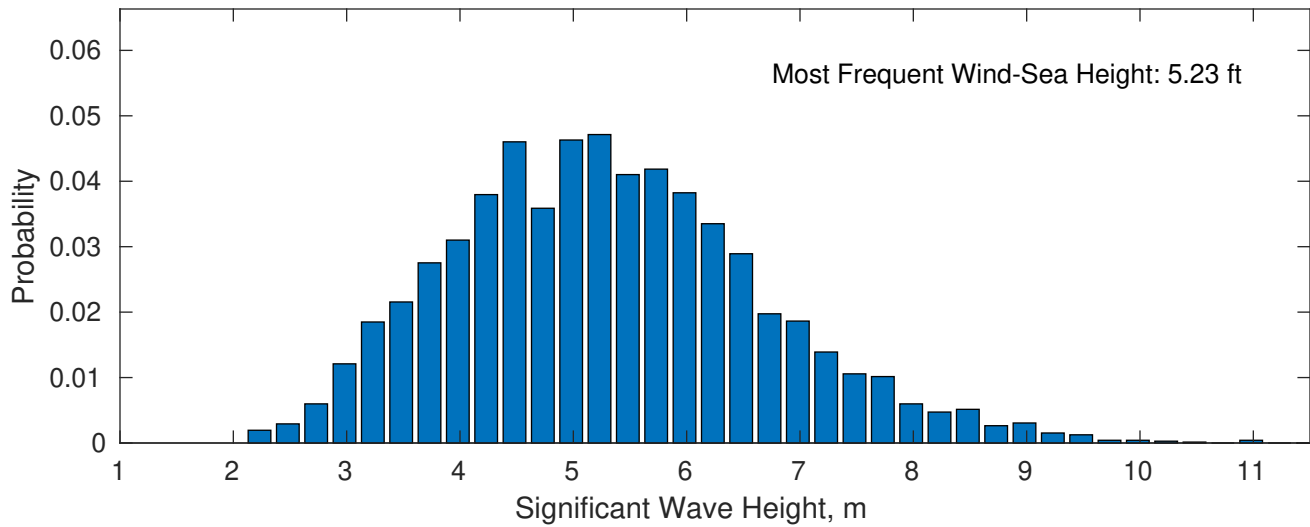




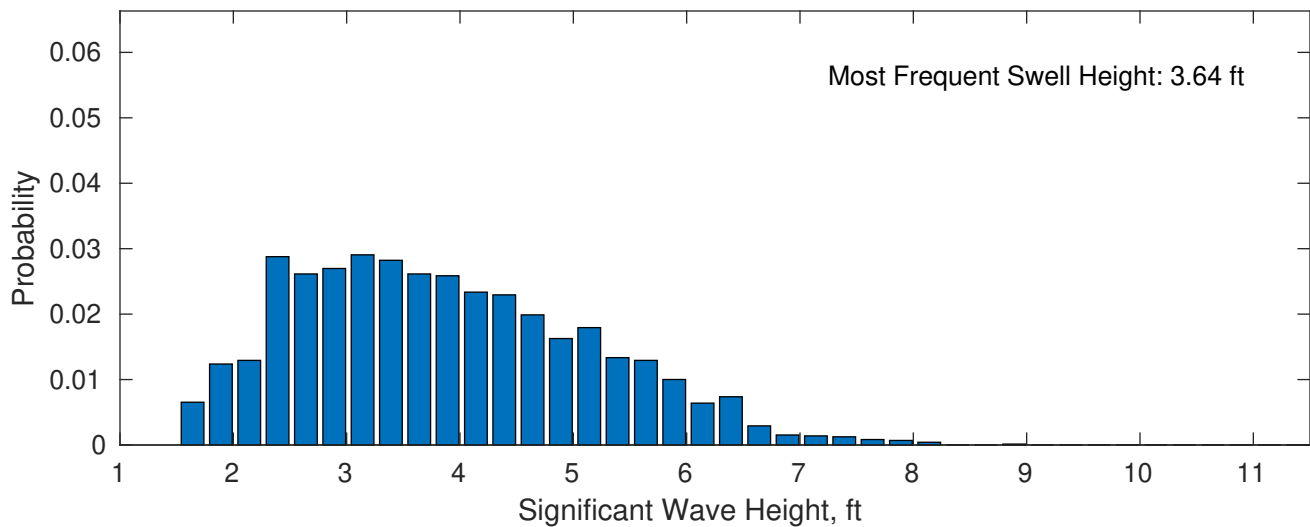
October Wave Height PDF: 1979 - 2015



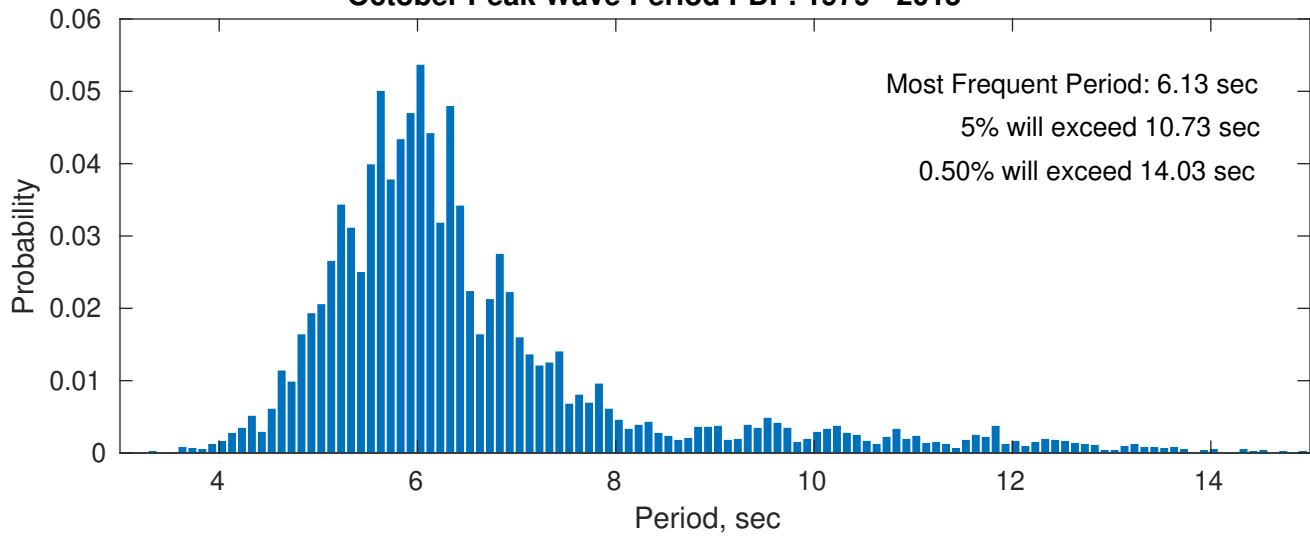
Wind-Sea: 61.74%



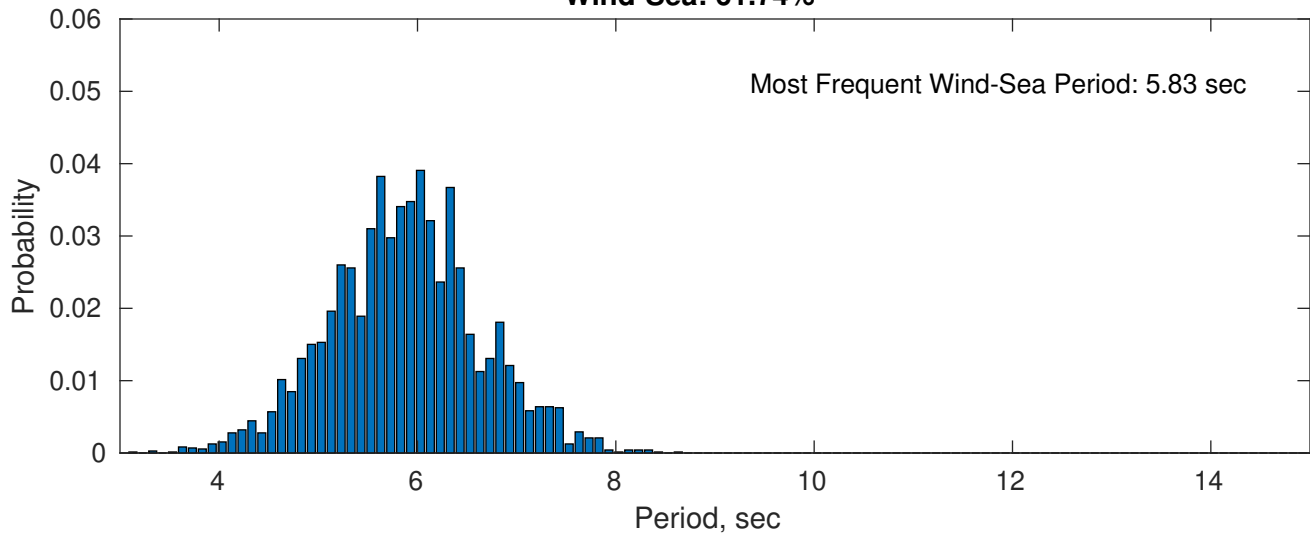
Swell: 38.26%



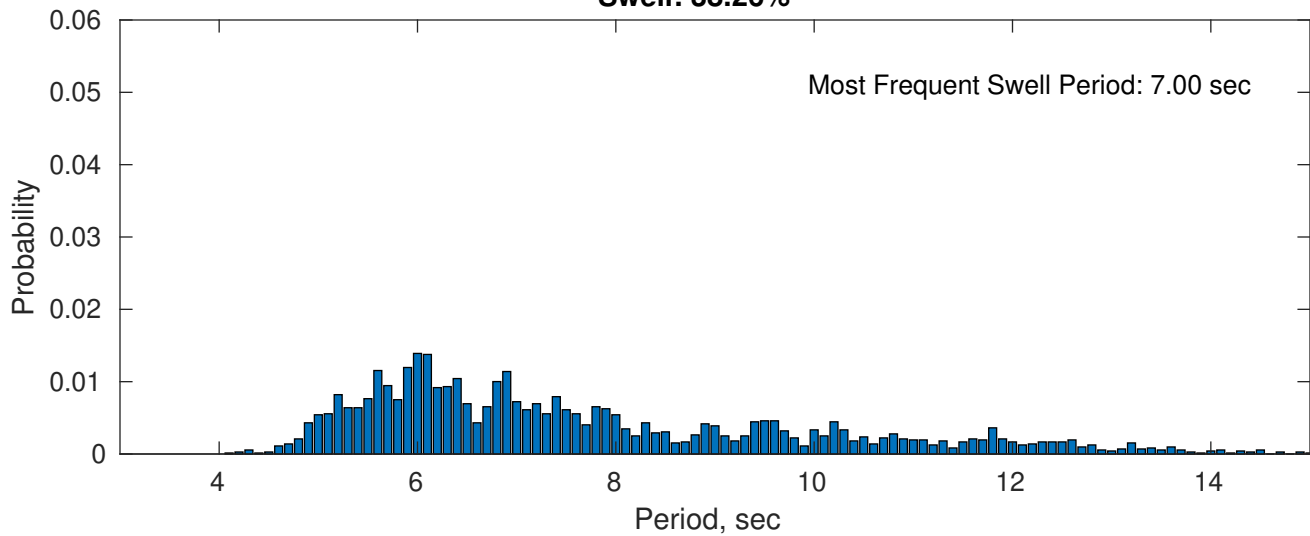
October Peak Wave Period PDF: 1979 - 2015



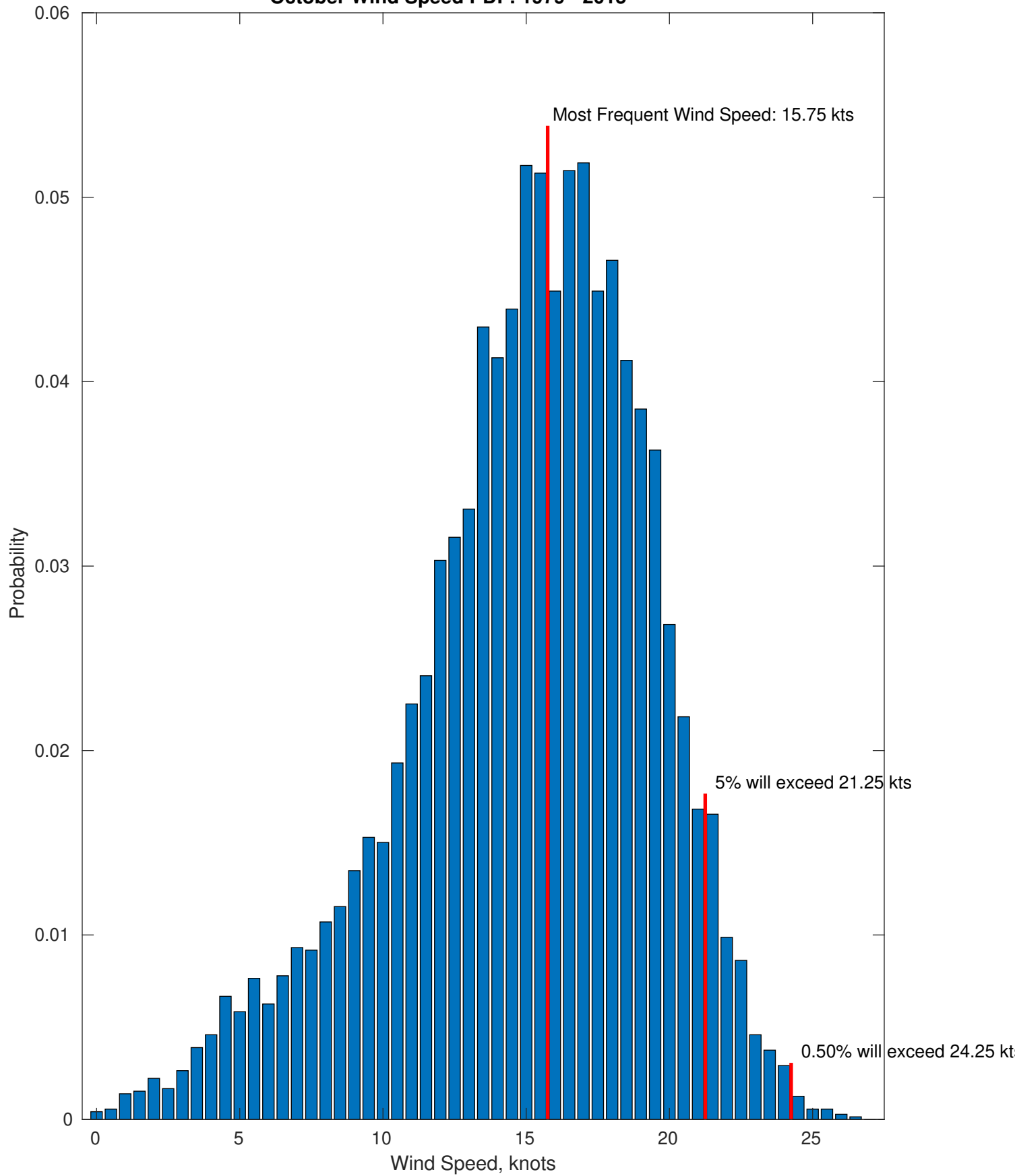
Wind-Sea: 61.74%



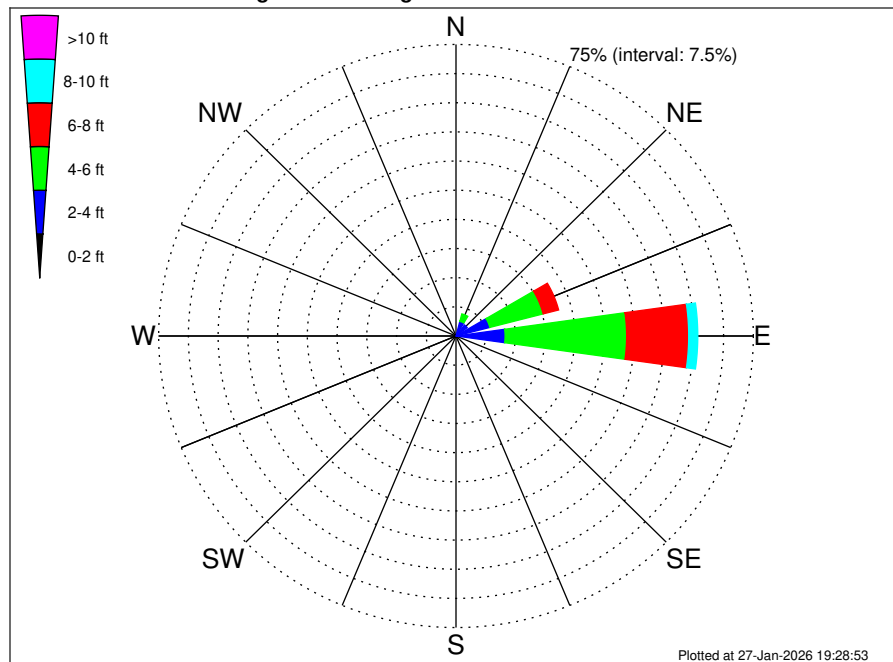
Swell: 38.26%



October Wind Speed PDF: 1979 - 2015



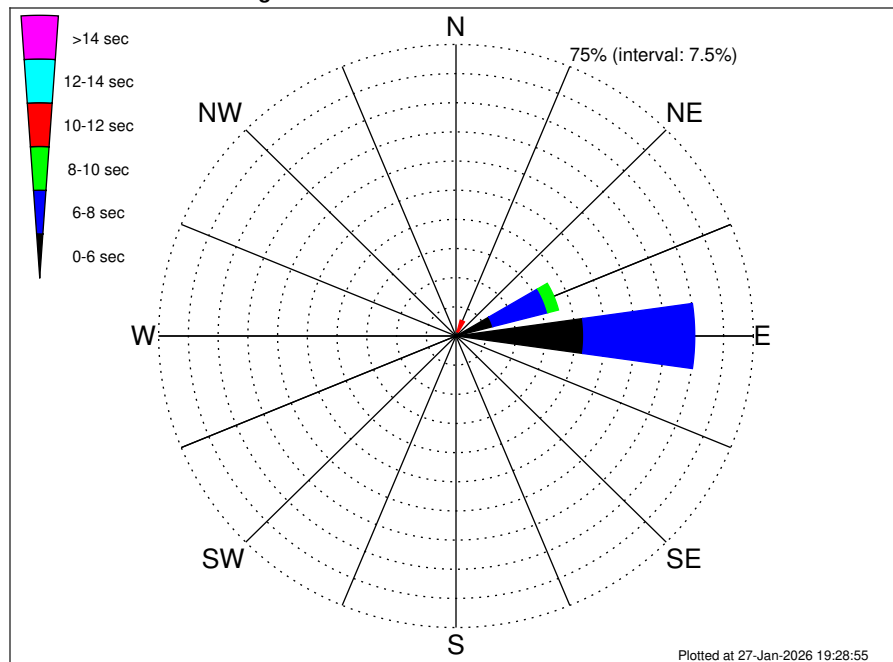
Aruba EBS Climatological WaveHeight Rose for October: 1979 - 2015



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	•	0.56	0.32	0.08	0.18	•	•	•	•	•	•	•	•	•	•	•	1.14
2 - 4 ft	0.07	3.34	3.23	8.73	12.21	0.17	0.06	•	•	•	•	•	0.58	0.29	•	0.03	28.70
4 - 6 ft	•	1.97	0.57	13.89	30.66	0.06	•	•	•	•	•	•	0.08	0.01	0.01	0.03	47.29
6 - 8 ft	•	0.40	0.08	4.03	15.66	•	•	•	•	•	•	•	•	•	•	•	20.18
8 - 10 ft	•	•	•	0.29	2.28	•	•	•	•	•	•	•	•	•	•	•	2.57
10 - 12 ft	•	•	•	0.03	0.10	•	•	•	•	•	•	•	•	•	•	•	0.13
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.07	6.27	4.20	27.06	61.08	0.22	0.06	•	•	•	•	•	0.67	0.31	0.01	0.06	100.00

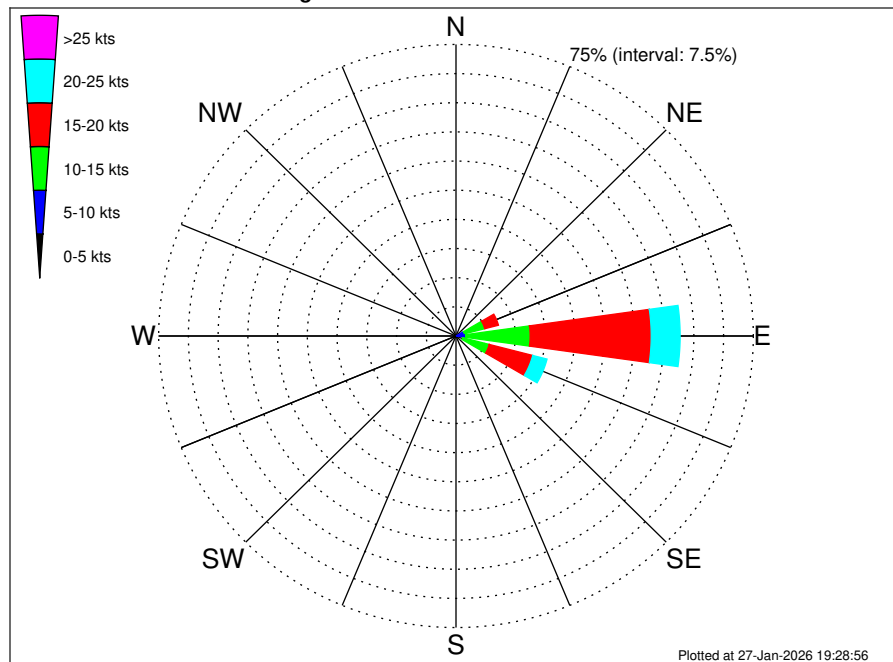
Aruba EBS Climatological WavePeriod Rose for October: 1979 - 2015



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	•	•	•	0.04	0.18	0.07	0.06	•	•	•	•	•	•	•	•	•	0.35
4 - 6 sec	•	•	0.33	9.55	32.06	0.15	•	•	•	•	•	•	0.07	0.13	•	•	42.30
6 - 8 sec	•	0.04	0.86	14.31	27.98	•	•	•	•	•	•	•	0.47	0.17	•	•	43.83
8 - 10 sec	0.04	1.14	1.63	2.81	0.58	•	•	•	•	•	•	•	0.13	0.01	0.01	0.04	6.40
10 - 12 sec	0.03	3.03	0.90	0.35	0.21	•	•	•	•	•	•	•	•	•	•	0.01	4.53
12 - 14 sec	•	1.60	0.40	•	0.06	•	•	•	•	•	•	•	•	•	•	•	2.06
14 - 16 sec	•	0.39	0.07	•	0.01	•	•	•	•	•	•	•	•	•	•	•	0.47
18 - 20 sec	•	0.04	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.04
22 - 24 sec	•	0.03	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.03
Total	0.07	6.27	4.20	27.06	61.08	0.22	0.06	•	•	•	•	•	0.67	0.31	0.01	0.06	100.00

Aruba EBS Climatological Wind Rose for October: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	0.01	0.01	•	0.01	•	0.03	•	0.01	0.01	0.10
0 - 5 kts	0.10	0.13	0.24	0.18	0.32	0.21	0.24	0.21	0.13	0.10	0.06	0.13	0.08	0.11	0.15	0.10	2.46
5 - 10 kts	0.11	0.26	0.78	2.02	2.16	1.54	0.65	0.28	0.13	0.18	0.25	0.33	0.40	0.13	0.29	0.19	9.71
10 - 15 kts	•	0.03	0.39	5.28	16.24	6.91	1.00	0.21	0.07	0.01	0.04	0.11	0.07	0.03	0.01	•	30.41
15 - 20 kts	•	•	0.06	3.57	30.53	11.33	0.32	•	0.01	0.01	0.01	•	•	0.01	•	•	45.87
20 - 25 kts	•	•	0.01	0.25	7.29	3.73	0.03	•	•	•	•	•	•	•	•	•	11.30
25 - 30 kts	•	•	•	•	0.10	0.06	•	•	•	•	•	•	•	•	•	•	0.15
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.21	0.42	1.47	11.30	56.63	23.78	2.24	0.71	0.35	0.31	0.38	0.57	0.58	0.28	0.47	0.31	100.00