

Zanzibar MBES - April

Latitude: 5.47 S Longitude: 41.14 E

Weather Days

Wave Height > 5.0 ft Mean: 5.2 days Range: 1.3 - 9.2 days p50:5.5 days p75:3 days p90:1 days

Wave Height > 6.5 ft Mean: 1.1 days Range: 0.0 - 2.8 days p50:5.5 days p75:1.5 days p90:0.5 days

Wave Height > 8.0 ft Mean: 0.3 days Range: 0.0 - 1.0 days p50:30 days p75:3.5 days p90:1 days

Wind Speed > 15.0 knots Mean: 1.9 days Range: 0.2 - 3.7 days p50:1.5 days p75:1 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 0.1 days Range: 0.0 - 0.4 days p50:0.5 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 < 5.0 ft
A 1 day or longer window will statistically occur 2.2 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 < 6.5 ft
A 1 day or longer window will statistically occur 1.2 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

Wave Height < 8.0 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 1.0 times per month

Waves

Mean Height: 2 - 4 ft

The wave heights will occasionally reach 8 - 10 ft, but rarely higher.

Mean Period: 8 - 10 sec

The wave periods will occasionally reach 14 - 16 sec, but rarely longer.

Principle Direction, from: ESE

WindSea/Swell: 5% / 95%

Winds

Mean Speed: 5 - 10 kts

The winds will occasionally reach 15 - 20 kts, but rarely greater.

Principle Direction, from: SSE

Currents

Mean Speed: 0.50-0.75 kts

The currents will occasionally reach 1.75-2.00 kts, but rarely greater.

Principle Direction, to: NNW

Weather Days

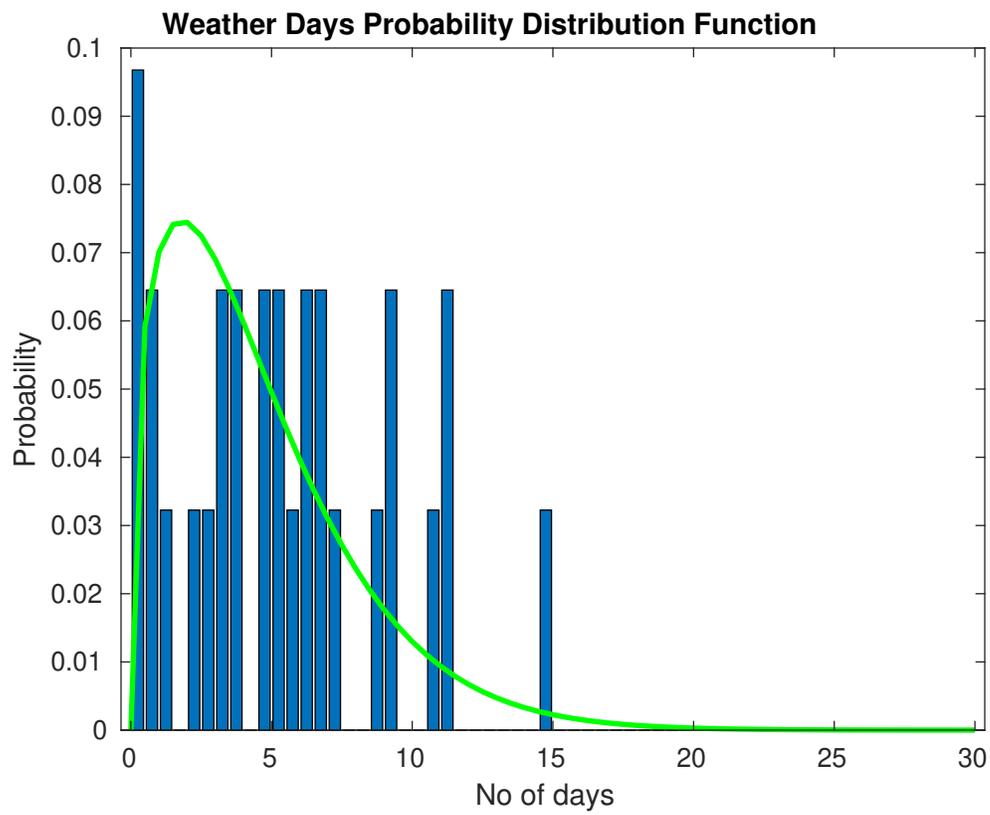
Current Speed > 0.5 knots Mean: 20.2 days Range: 13.1 - 27.3 days p50:21 days p75:16 days p90:11 days

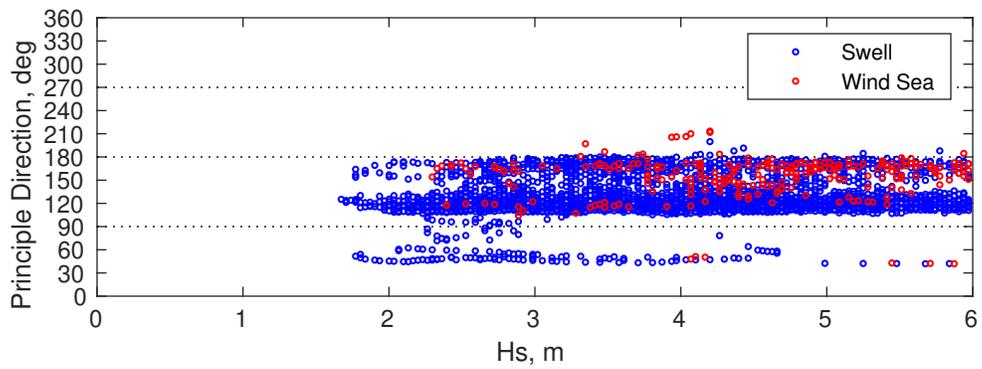
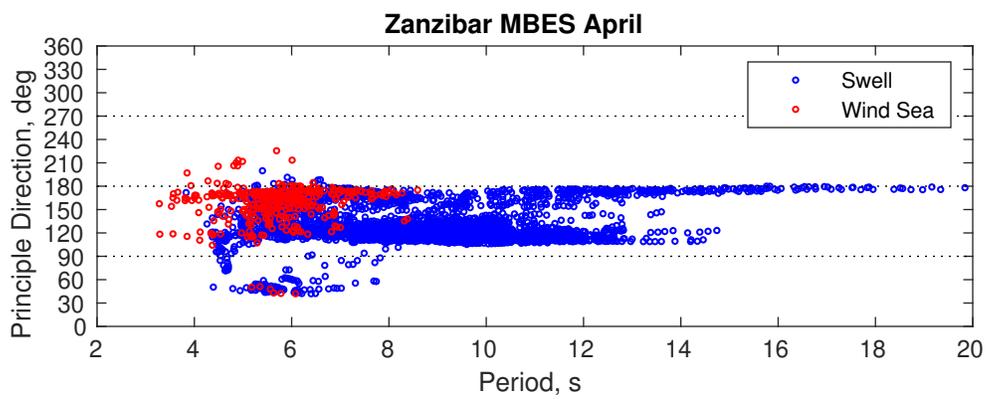
Current Speed > 1.0 knots Mean: 5.6 days Range: 0.0 - 12.1 days p50:5 days p75:2 days p90:1 days

Current Speed > 1.5 knots Mean: 0.5 days Range: 0.0 - 2.1 days p50:1 days p75:1 days p90:1 days

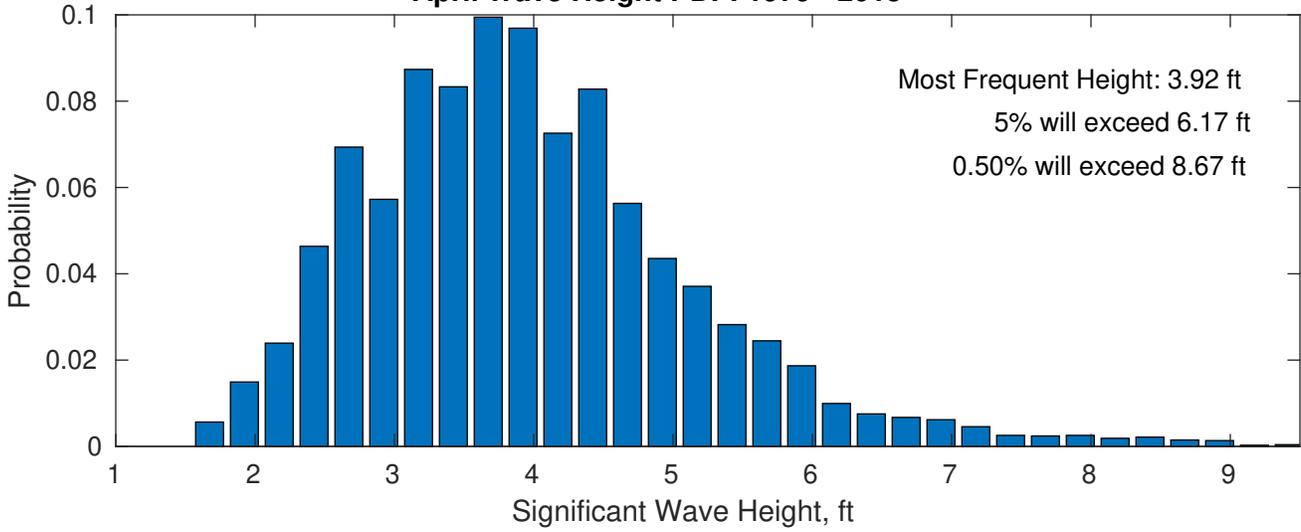
Severe Storms

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

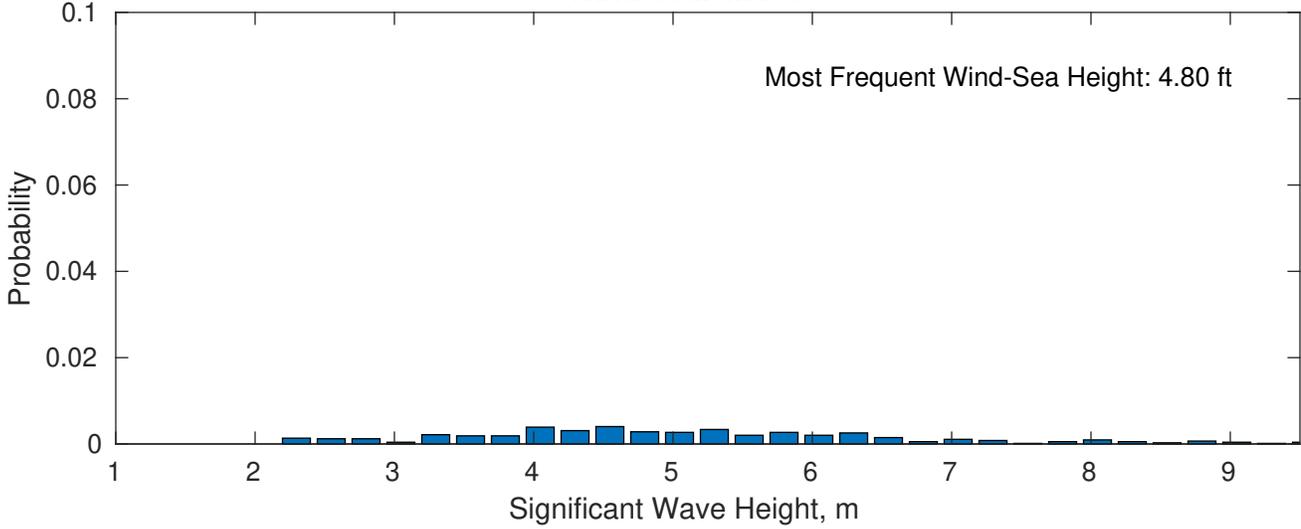




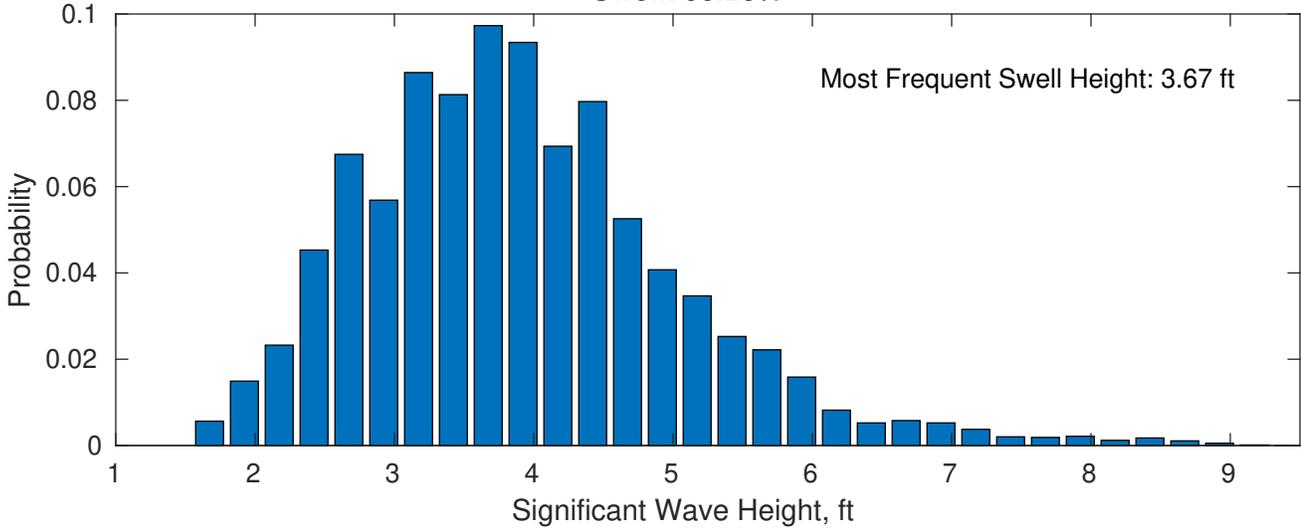
April Wave Height PDF: 1979 - 2015



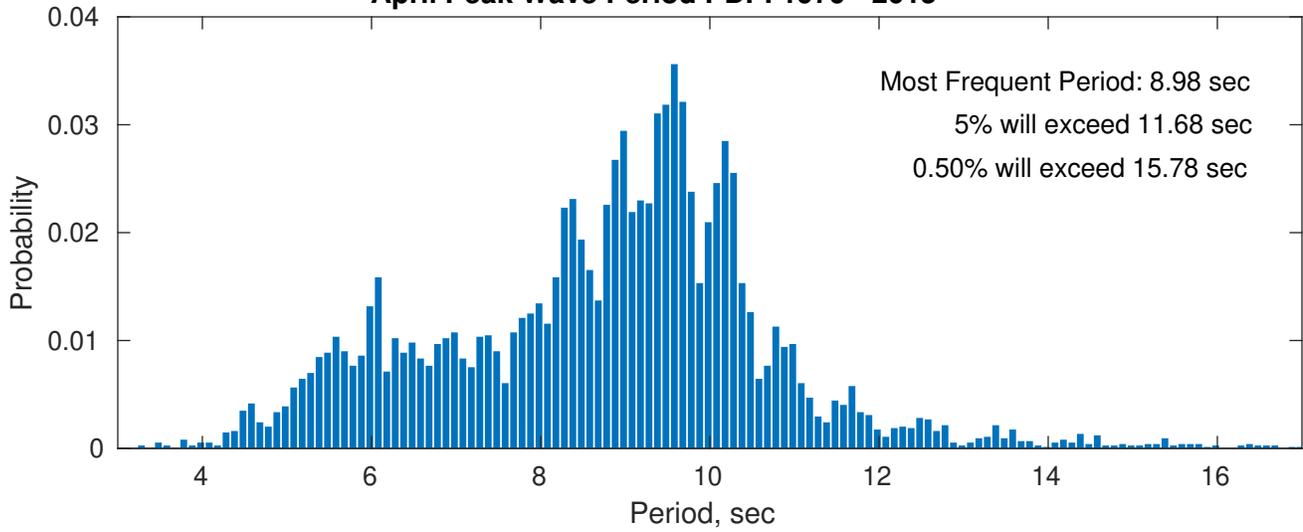
Wind-Sea: 4.77%



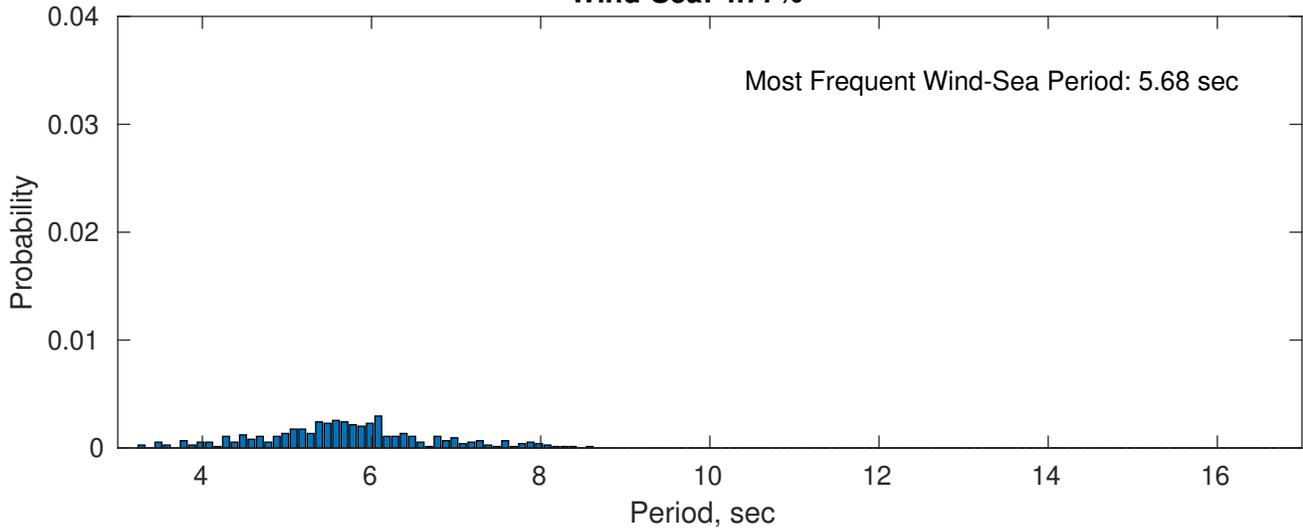
Swell: 95.23%



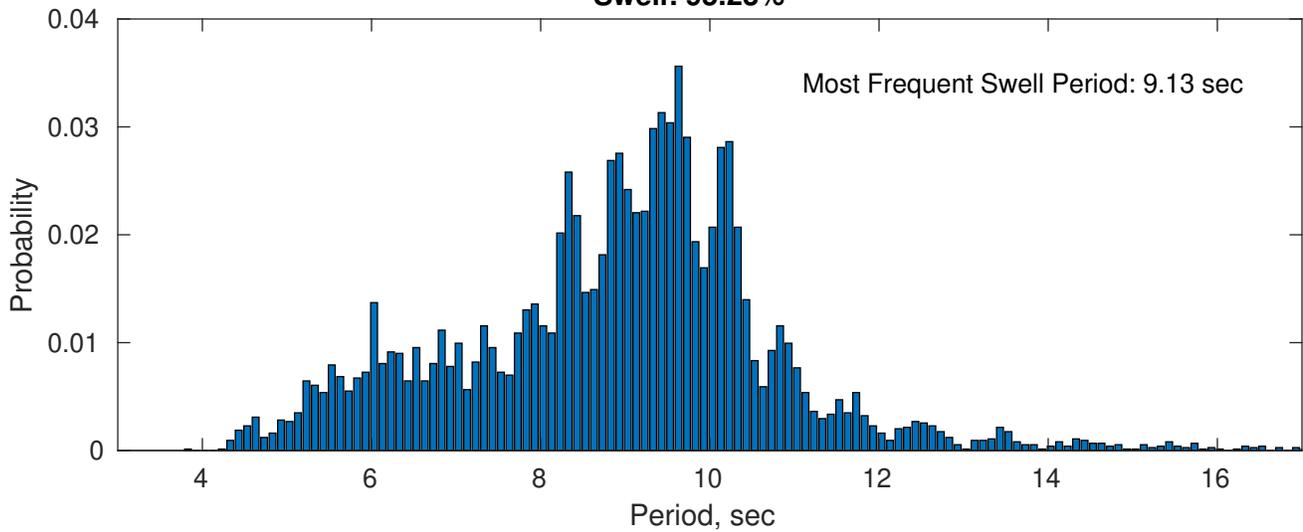
April Peak Wave Period PDF: 1979 - 2015



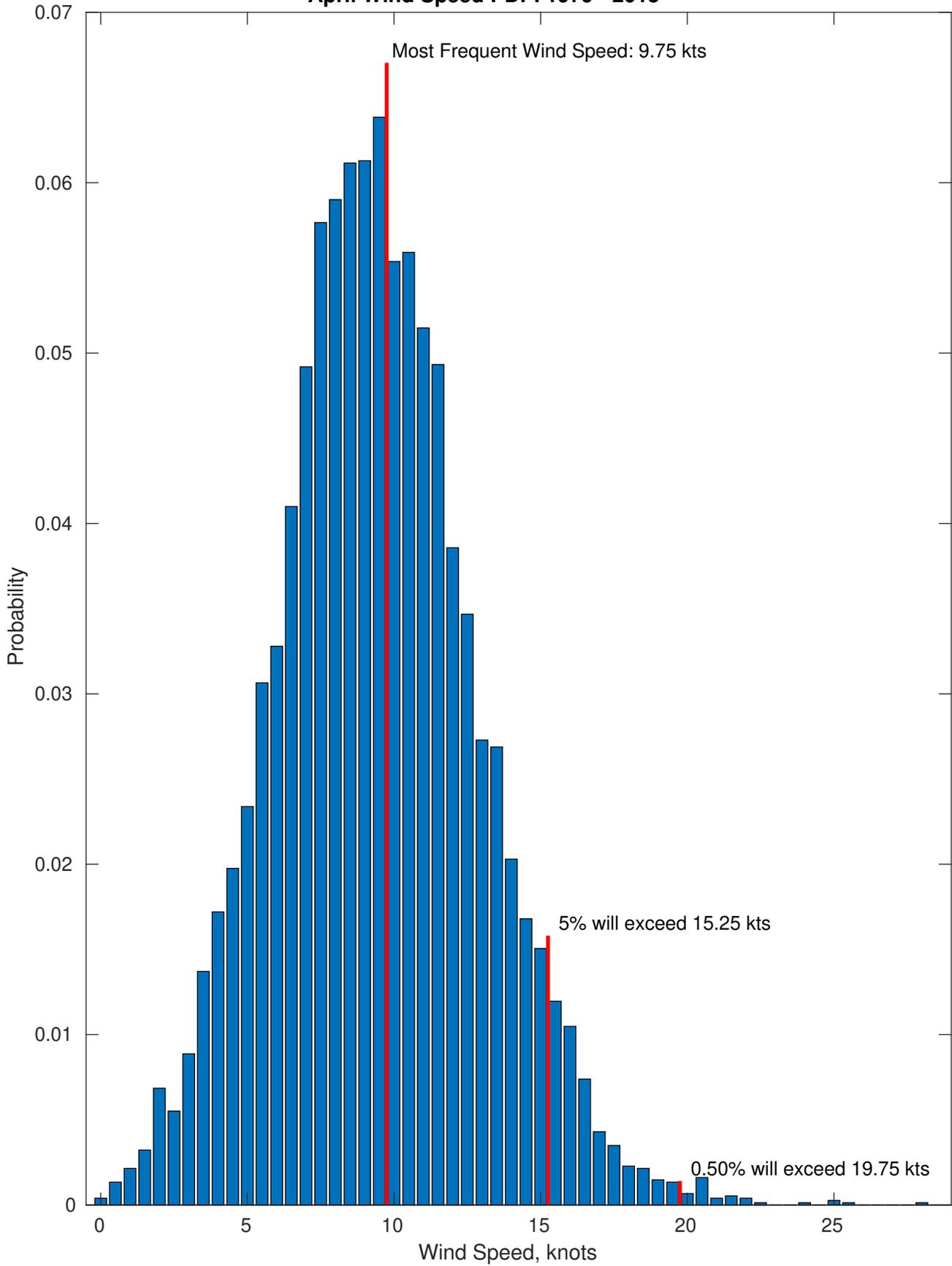
Wind-Sea: 4.77%



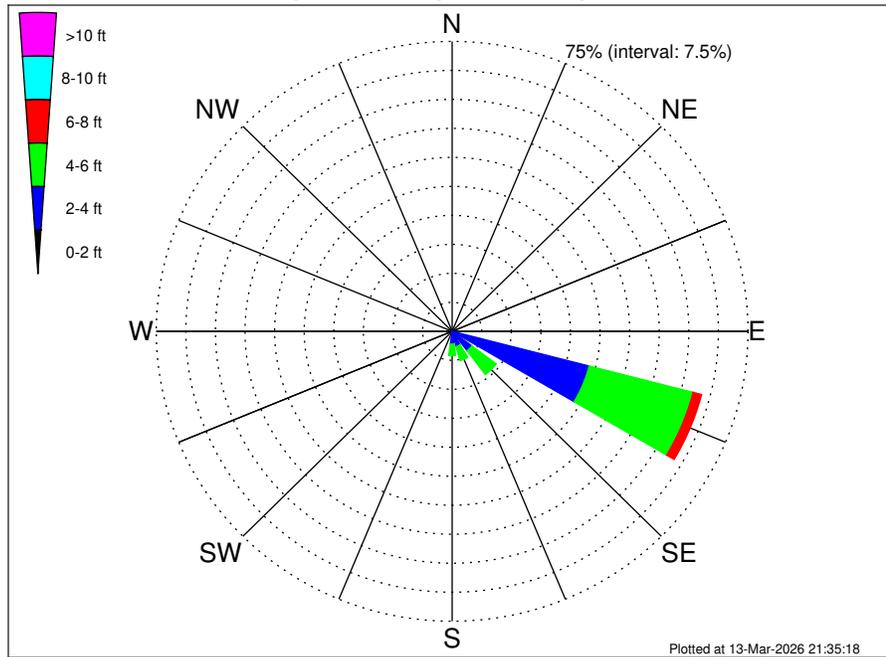
Swell: 95.23%



April Wind Speed PDF: 1979 - 2015



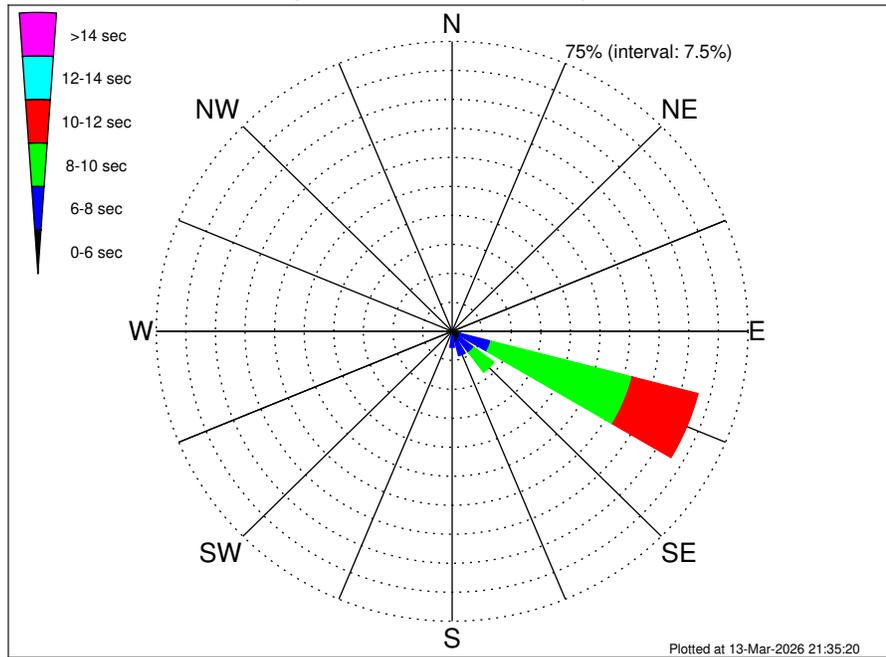
Zanzibar MBES Climatological WaveHeight Rose for April: 1979 - 2015



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	•	•	0.08	•	•	0.56	0.09	0.09	0.01	•	•	•	•	•	•	•	0.85
2 - 4 ft	•	•	1.05	0.31	0.34	35.32	6.18	3.97	3.31	0.04	•	•	•	•	•	•	50.51
4 - 6 ft	•	•	0.30	0.09	•	27.20	7.72	3.78	3.00	0.08	•	•	•	•	•	•	42.16
6 - 8 ft	•	•	•	•	•	2.22	0.89	1.06	1.20	0.01	0.01	•	•	•	•	•	5.39
8 - 10 ft	•	•	•	•	•	0.12	0.19	0.23	0.43	•	•	•	•	•	•	•	0.97
10 - 12 ft	•	•	•	•	•	•	0.04	0.03	0.01	•	•	•	•	•	•	•	0.08
12 - 14 ft	•	•	•	•	•	•	•	•	0.04	•	•	•	•	•	•	•	0.04
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	•	1.42	0.40	0.34	65.43	15.11	9.15	8.00	0.13	0.01	•	•	•	•	•	100.00

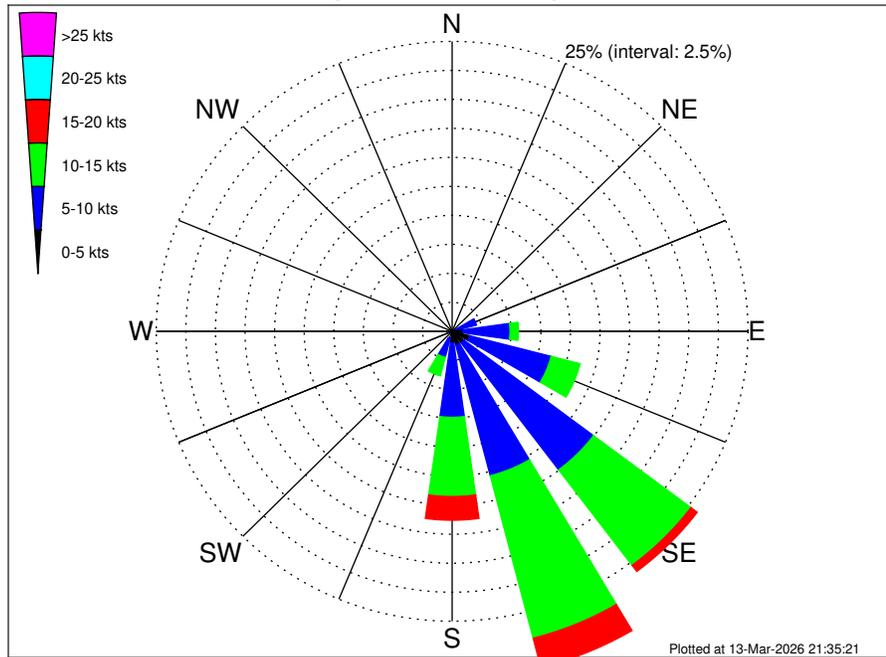
Zanzibar MBES Climatological WavePeriod Rose for April: 1979 - 2015



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	•	0.12	0.05	0.01	•	•	•	•	•	•	0.23
4 - 6 sec	•	•	1.09	0.23	0.20	1.98	2.31	2.69	1.21	0.11	0.01	•	•	•	•	•	9.83
6 - 8 sec	•	•	0.34	0.17	0.13	8.15	4.61	3.70	2.88	0.01	•	•	•	•	•	•	19.99
8 - 10 sec	•	•	•	•	•	37.02	6.33	1.60	0.31	•	•	•	•	•	•	•	45.26
10 - 12 sec	•	•	•	•	•	17.19	1.67	0.86	0.83	•	•	•	•	•	•	•	20.55
12 - 14 sec	•	•	•	•	•	0.95	0.19	0.19	1.36	•	•	•	•	•	•	•	2.69
14 - 16 sec	•	•	•	•	•	0.11	•	•	0.89	•	•	•	•	•	•	•	0.99
18 - 20 sec	•	•	•	•	•	•	•	•	0.31	•	•	•	•	•	•	•	0.31
22 - 24 sec	•	•	•	•	•	•	•	•	0.16	•	•	•	•	•	•	•	0.16
Total	•	•	1.42	0.40	0.34	65.43	15.11	9.15	8.00	0.13	0.01	•	•	•	•	•	100.00

Zanzibar MBES Climatological Wind Rose for April: 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	•	•	0.03	•	0.03	0.01	0.03	•	0.01	0.04	•	•	•	0.17
0 - 5 kts	0.07	0.09	0.15	0.38	0.90	1.51	1.25	1.20	1.01	0.59	0.19	0.19	0.08	0.07	0.05	0.01	7.73
5 - 10 kts	•	0.12	0.56	1.75	3.99	7.11	13.71	11.64	6.40	1.71	0.60	0.24	0.09	0.04	0.03	•	48.00
10 - 15 kts	0.03	•	0.17	0.38	0.71	2.53	10.31	14.48	6.83	1.64	0.40	0.15	0.04	•	•	•	37.66
15 - 20 kts	•	0.03	0.01	•	0.03	0.05	0.66	2.61	2.04	0.46	0.05	0.05	•	•	•	•	5.99
20 - 25 kts	•	•	•	•	•	•	•	0.03	0.26	0.07	0.03	0.01	•	•	•	•	0.39
25 - 30 kts	•	•	•	•	•	•	0.03	•	0.03	•	•	•	•	•	•	•	0.05
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.09	0.26	0.91	2.50	5.63	11.22	25.95	29.97	16.57	4.49	1.28	0.66	0.26	0.11	0.08	0.01	100.00