

## Zanzibar MBES - March

Latitude: 5.47 S Longitude: 41.14 E

### Weather Days

Wave Height > 5.0 ft Mean: 1.7 days Range: 0.0 - 3.8 days p50:4.5 days p75:1.5 days p90:1 days  
Wave Height > 6.5 ft Mean: 0.3 days Range: 0.0 - 1.0 days p50:30 days p75:30 days p90:1.5 days  
Wave Height > 8.0 ft Mean: 0.0 days Range: 0.0 - 0.0 days p50:30 days p75:30 days p90:30 days  
  
Wind Speed > 15.0 knots Mean: 1.2 days Range: 0.1 - 2.3 days p50:1 days p75:0.5 days p90:0.5 days  
Wind Speed > 20.0 knots Mean: 0.0 days Range: 0.0 - 0.2 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 - 0.0 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 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 1.4 times per month
Wave Height < 6.5 ft	A 1 day or longer window will statistically occur 1.0 times per month A 2 day or longer window will statistically occur 1.0 times per month A 3 day or longer window will statistically occur 1.0 times per month
Wave Height < 8.0 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: 2 - 4 ft  
The wave heights will occasionally reach 6 - 8 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: ENE

### Currents

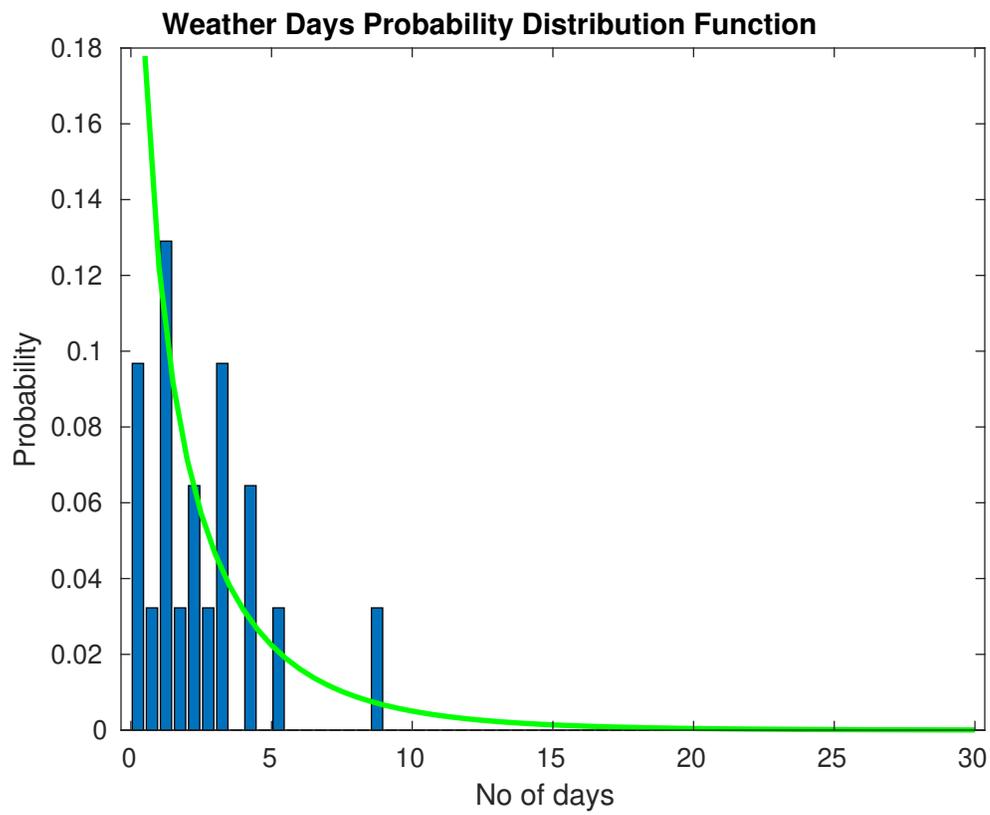
Mean Speed: 0.50-0.75 kts  
The currents will occasionally reach 2.00-2.25 kts, but rarely greater.  
Principle Direction, to: NNW

### Weather Days

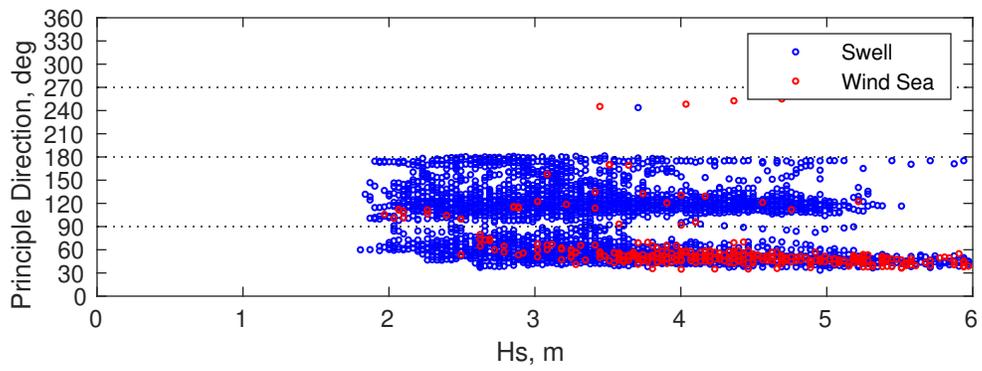
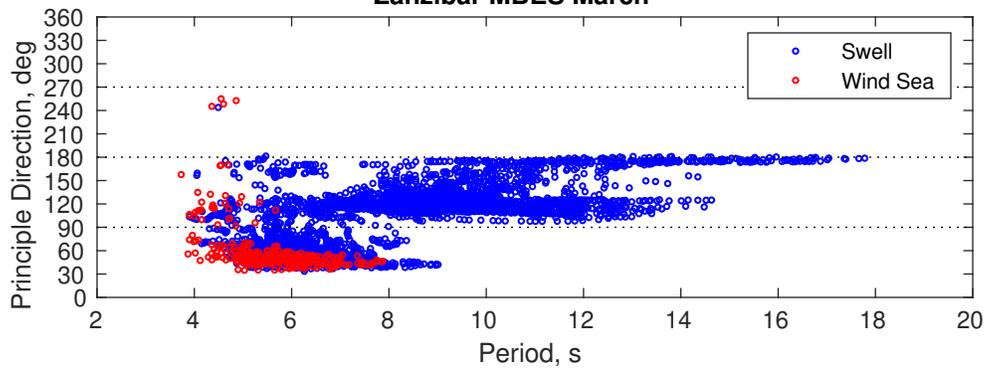
Current Speed > 0.5 knots Mean: 14.2 days Range: 7.5 - 20.9 days p50:15 days p75:11 days p90:7 days  
Current Speed > 1.0 knots Mean: 3.0 days Range: 0.0 - 7.5 days p50:2 days p75:1 days p90:1 days  
Current Speed > 1.5 knots Mean: 1.0 days Range: 0.0 - 3.7 days p50:1 days p75:1 days p90:1 days

### Severe Storms

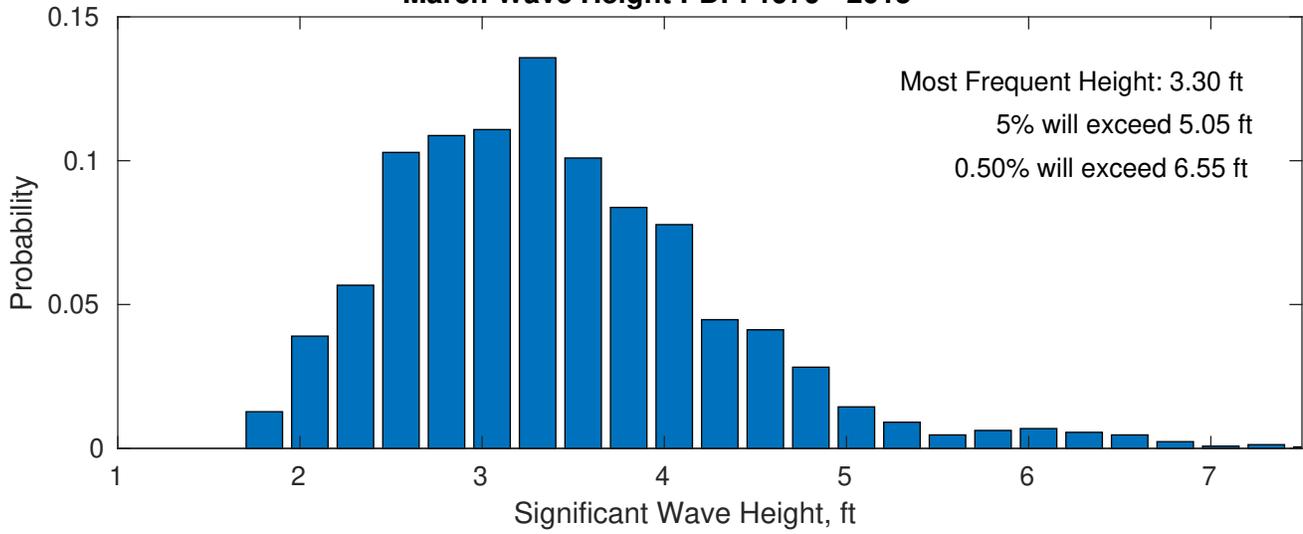
Severe storms with gale force winds and extreme waves are not expected during this month.



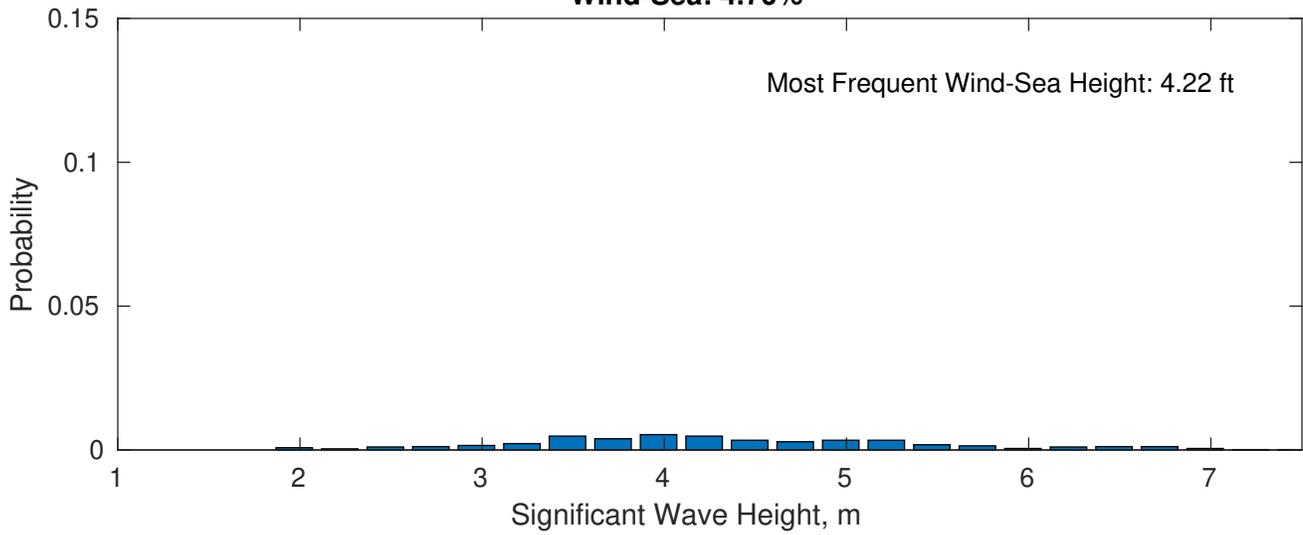
### Zanzibar MBES March



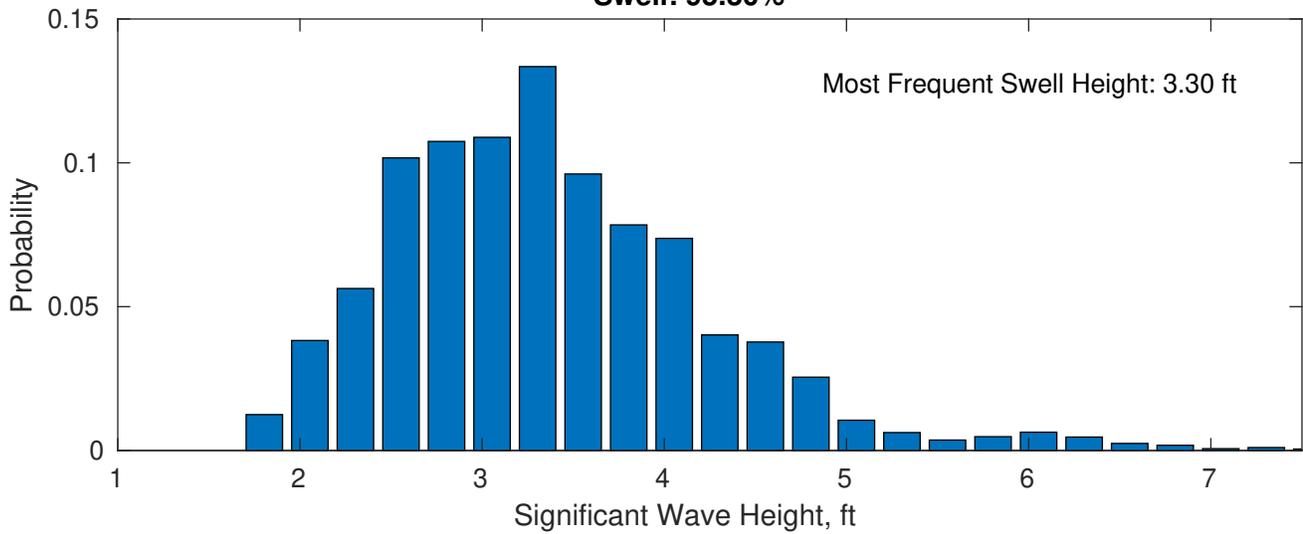
**March Wave Height PDF: 1979 - 2015**



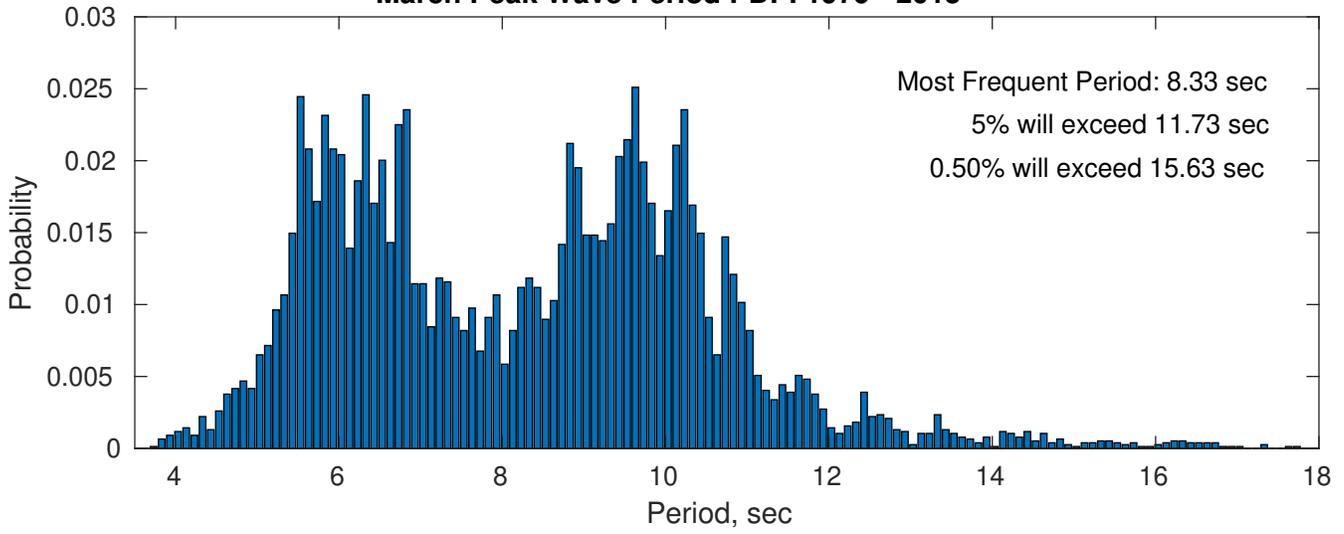
**Wind-Sea: 4.70%**



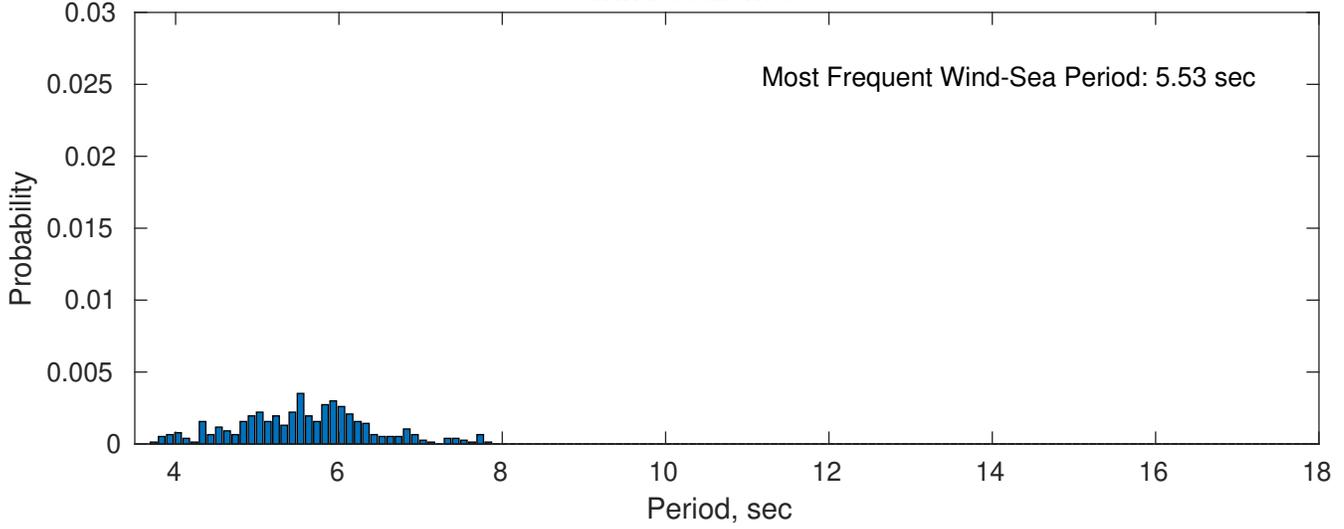
**Swell: 95.30%**



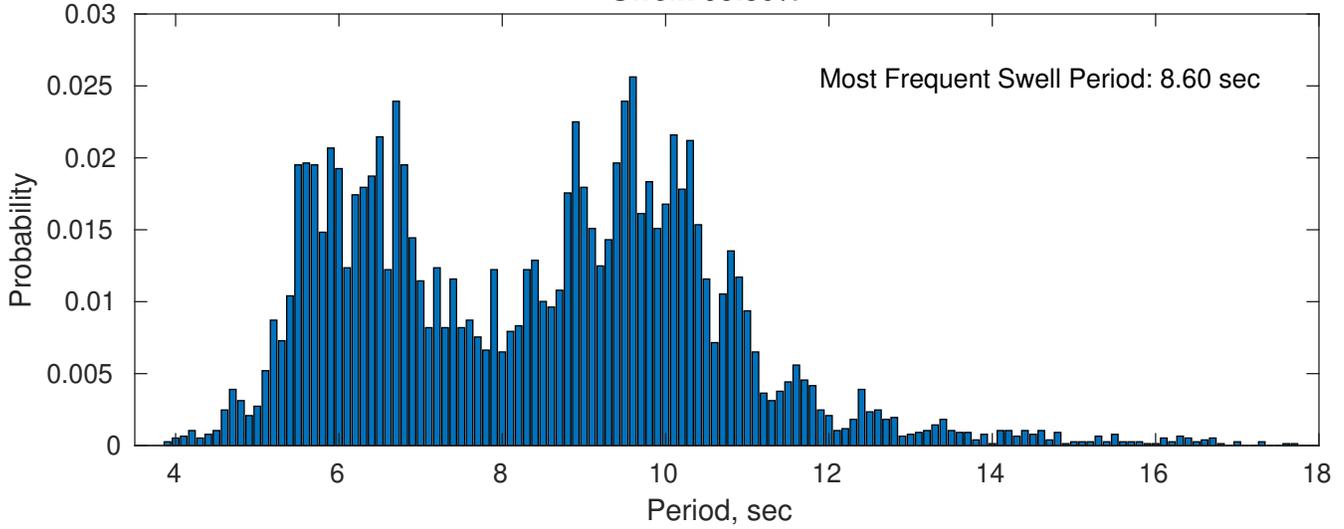
**March Peak Wave Period PDF: 1979 - 2015**



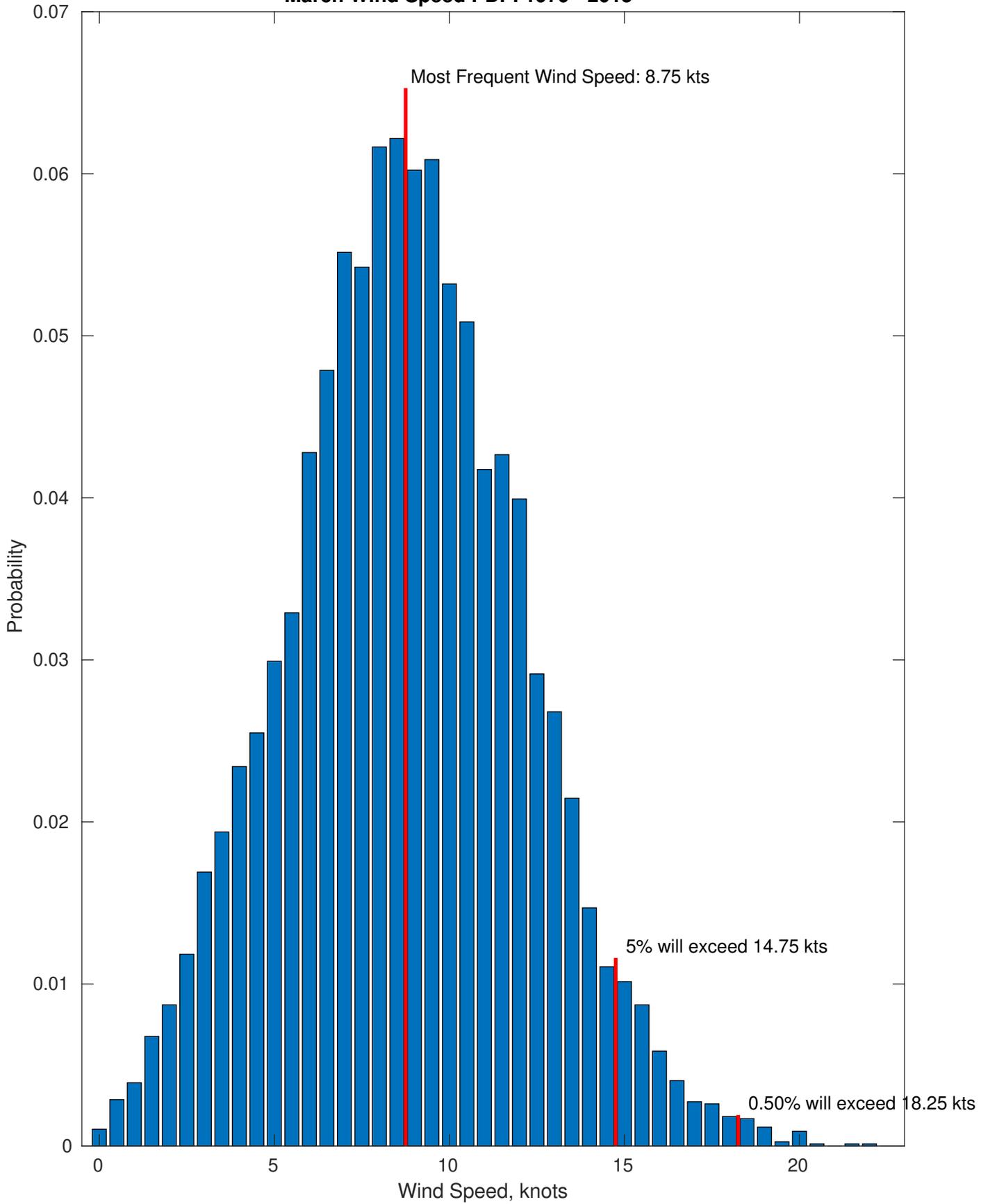
**Wind-Sea: 4.70%**



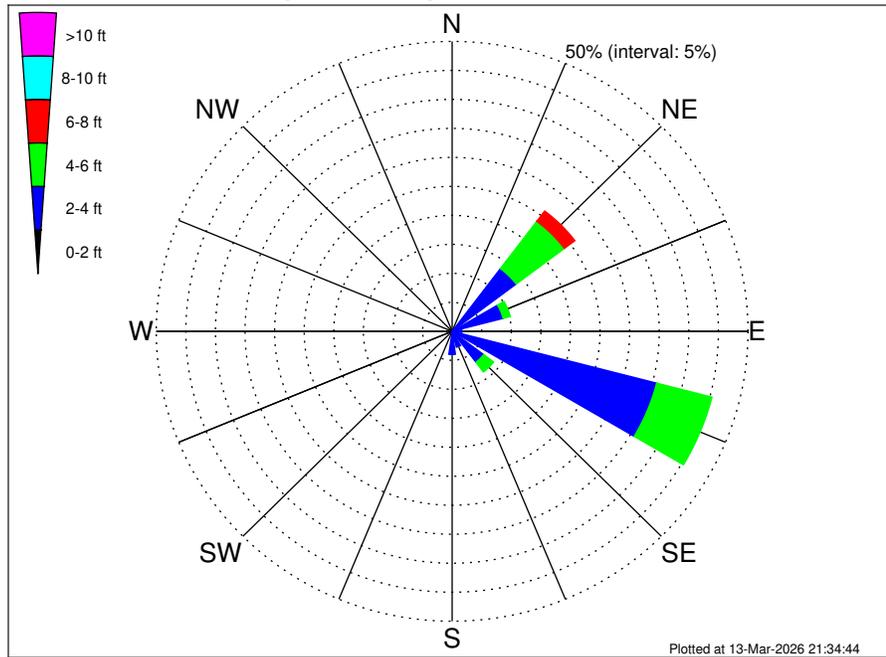
**Swell: 95.30%**



### March Wind Speed PDF: 1979 - 2015



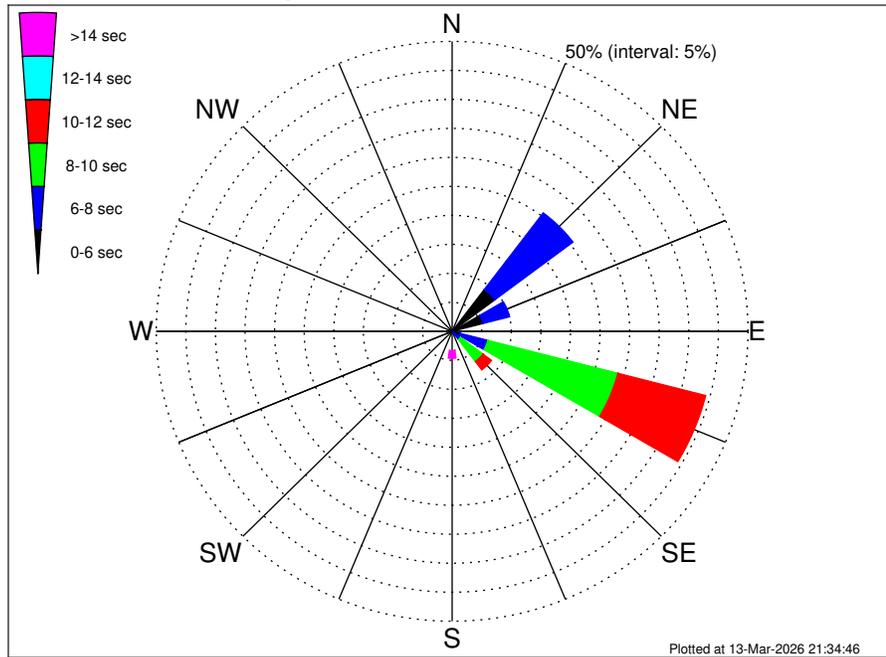
Zanzibar MBES Climatological WaveHeight Rose for March: 1979 - 2015



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	•	•	•	0.10	0.05	0.16	0.07	0.01	0.22	•	•	•	•	•	•	•	0.61
2 - 4 ft	•	•	13.55	8.79	1.60	35.55	6.61	2.82	3.77	•	•	0.03	•	•	•	•	72.72
4 - 6 ft	•	0.01	10.21	1.26	0.21	9.65	2.11	0.30	0.59	•	•	0.04	•	•	•	•	24.38
6 - 8 ft	•	•	2.21	•	•	•	•	•	0.08	•	•	•	•	•	•	•	2.29
8 - 10 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10 - 12 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	0.01	25.98	10.16	1.86	45.36	8.78	3.13	4.66	•	•	0.07	•	•	•	•	100.00

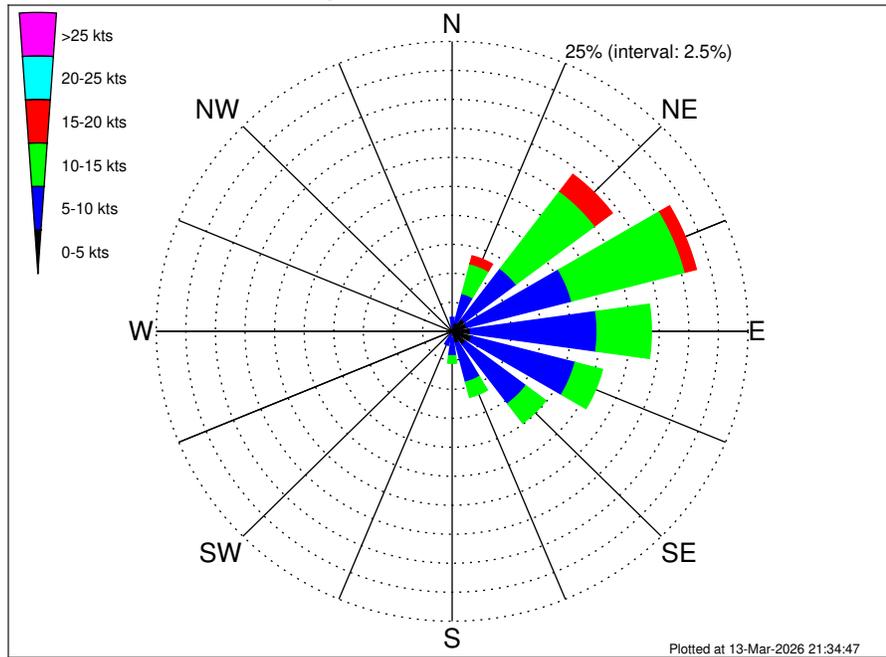
Zanzibar MBES Climatological WavePeriod Rose for March: 1979 - 2015



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	0.03	0.01	0.07	•	0.01	•	•	•	•	•	•	•	•	0.13
4 - 6 sec	•	•	9.03	5.40	1.12	1.31	0.26	0.36	0.27	•	•	0.07	•	•	•	•	17.82
6 - 8 sec	•	0.01	16.53	4.60	0.46	4.86	1.52	0.29	0.20	•	•	•	•	•	•	•	28.47
8 - 10 sec	•	•	0.40	0.13	0.12	22.68	4.73	1.24	0.39	•	•	•	•	•	•	•	29.70
10 - 12 sec	•	•	•	•	0.14	15.34	1.81	0.98	1.24	•	•	•	•	•	•	•	19.50
12 - 14 sec	•	•	•	•	0.01	1.07	0.39	0.23	1.21	•	•	•	•	•	•	•	2.91
14 - 16 sec	•	•	•	•	•	0.03	0.07	0.03	0.94	•	•	•	•	•	•	•	1.05
18 - 20 sec	•	•	•	•	•	•	•	•	0.42	•	•	•	•	•	•	•	0.42
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	0.01	25.98	10.16	1.86	45.36	8.78	3.13	4.66	•	•	0.07	•	•	•	•	100.00

Zanzibar MBES Climatological Wind Rose for March: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	0.03	0.08	•	0.03	0.03	0.03	0.03	0.05	•	0.03	0.01	0.01	0.04	•	0.04	0.39
0 - 5 kts	0.43	0.75	1.25	1.29	1.52	1.70	1.40	1.03	0.55	0.39	0.38	0.18	0.13	0.16	0.20	0.29	11.64
5 - 10 kts	0.78	2.59	5.44	9.14	10.70	9.00	6.37	3.47	1.52	0.86	0.25	0.10	0.09	0.08	0.13	0.25	50.78
10 - 15 kts	0.48	2.65	8.35	9.91	4.58	2.39	2.11	1.35	0.65	0.27	0.23	0.10	0.03	0.01	•	0.03	33.16
15 - 20 kts	0.13	0.70	1.83	0.98	0.10	0.01	0.07	0.03	•	0.03	•	0.01	0.01	•	•	•	3.90
20 - 25 kts	•	•	0.05	0.08	•	•	•	•	•	•	•	•	•	•	•	•	0.13
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	1.82	6.72	17.00	21.40	16.94	13.14	9.98	5.91	2.77	1.55	0.88	0.42	0.27	0.29	0.33	0.60	100.00