

## Zanzibar MBES - May

Latitude: 5.47 S Longitude: 41.14 E

### Weather Days

Wave Height > 5.0 ft Mean: 22.2 days Range: 17.6 - 26.7 days p50:22.5 days p75:19.5 days p90:16 days

Wave Height > 6.5 ft Mean: 11.2 days Range: 6.8 - 15.7 days p50:11.5 days p75:8.5 days p90:5.5 days

Wave Height > 8.0 ft Mean: 2.8 days Range: 0.5 - 5.1 days p50:3 days p75:1 days p90:1 days

Wind Speed > 15.0 knots Mean: 12.0 days Range: 8.4 - 15.5 days p50:12 days p75:9 days p90:8 days

Wind Speed > 20.0 knots Mean: 0.8 days Range: 0.0 - 1.8 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 1.7 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 0.9 times per month

Wave Height < 6.5 ft  
A 1 day or longer window will statistically occur 2.9 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 1.8 times per month

Wave Height < 8.0 ft  
A 1 day or longer window will statistically occur 2.3 times per month  
A 2 day or longer window will statistically occur 2.1 times per month  
A 3 day or longer window will statistically occur 1.7 times per month

### Waves

Mean Height: 6 - 8 ft

The wave heights will occasionally reach 10 - 12 ft, but rarely higher.

Mean Period: 8 - 10 sec

The wave periods will occasionally reach 12 - 14 sec, but rarely longer.

Principle Direction, from: ESE

WindSea/Swell: 15% / 85%

### Winds

Mean Speed: 10 - 15 kts

The winds will occasionally reach 20 - 25 kts, but rarely greater.

Principle Direction, from: SSE

### Currents

Mean Speed: 0.75-1.00 kts

The currents will occasionally reach 2.00-2.25 kts, but rarely greater.

Principle Direction, to: NNW

### Weather Days

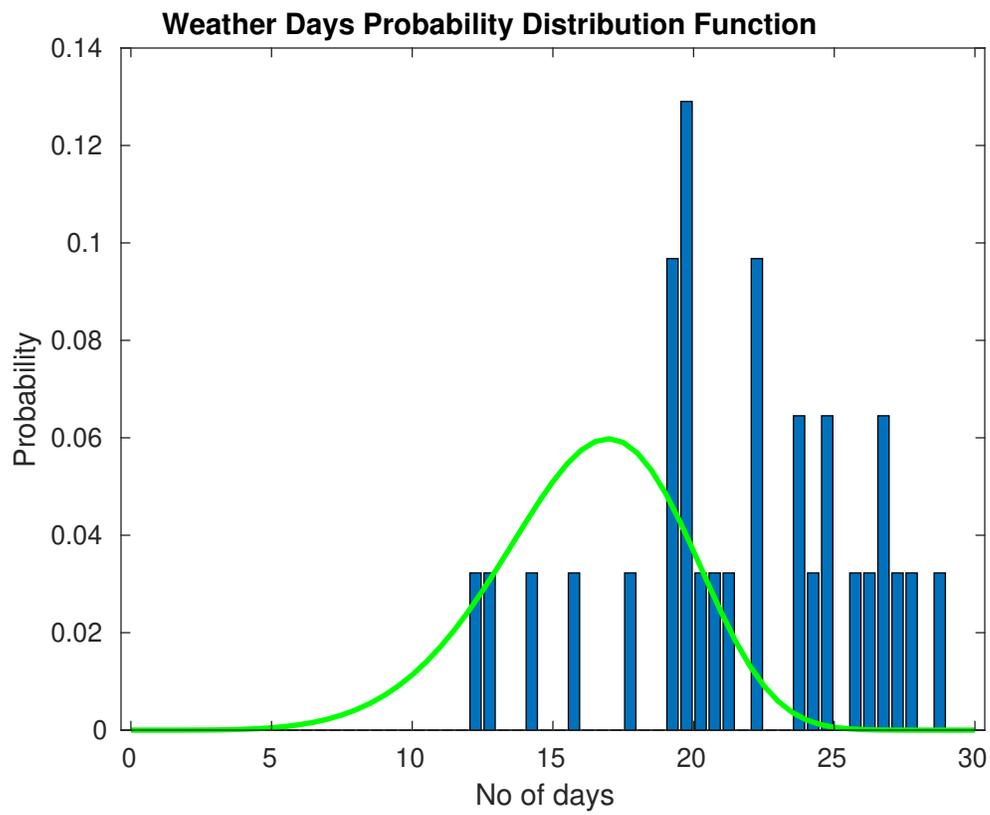
Current Speed > 0.5 knots Mean: 25.4 days Range: 20.4 - 30.0 days p50:27 days p75:22 days p90:16 days

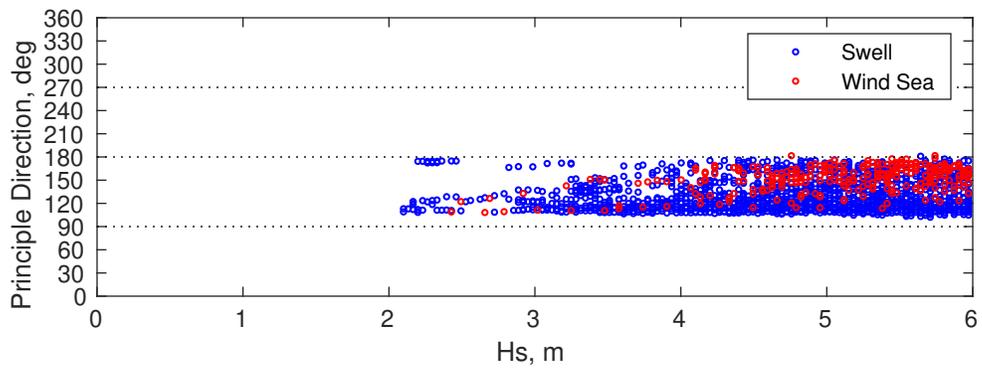
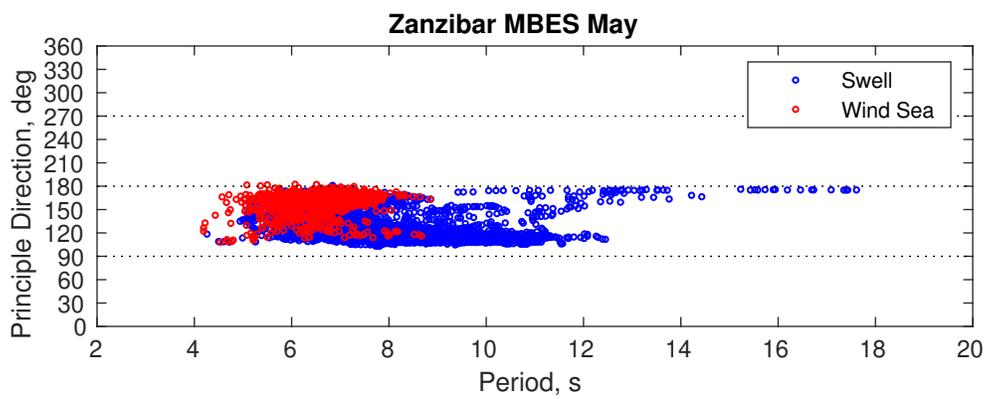
Current Speed > 1.0 knots Mean: 12.0 days Range: 5.0 - 19.1 days p50:11 days p75:9 days p90:3 days

Current Speed > 1.5 knots Mean: 2.0 days Range: 0.0 - 4.9 days p50:2 days p75:1 days p90:1 days

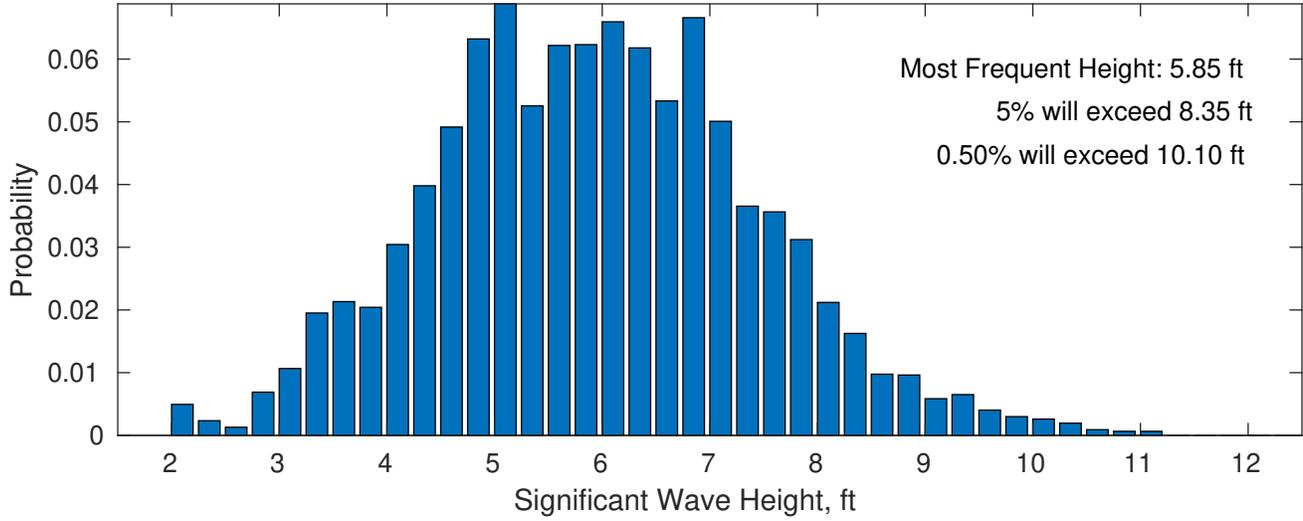
### Severe Storms

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

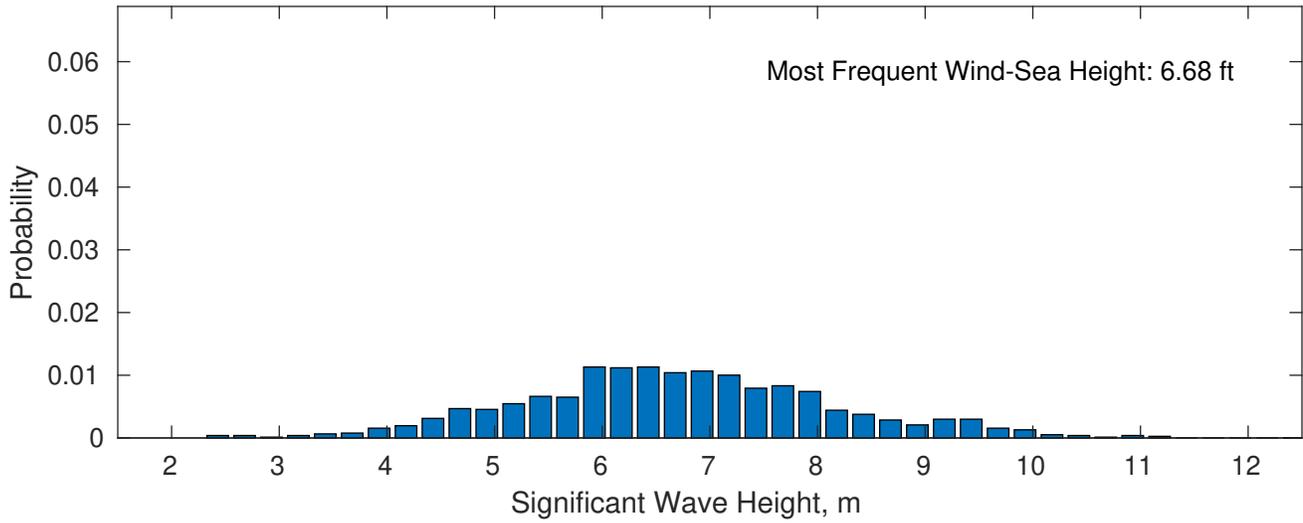




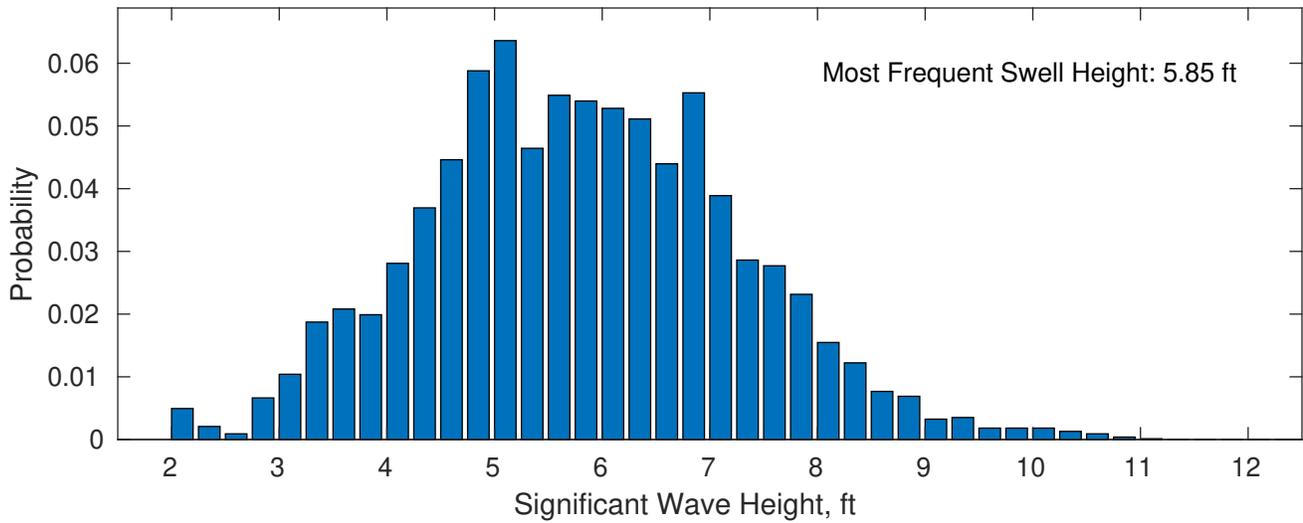
**May Wave Height PDF: 1979 - 2015**



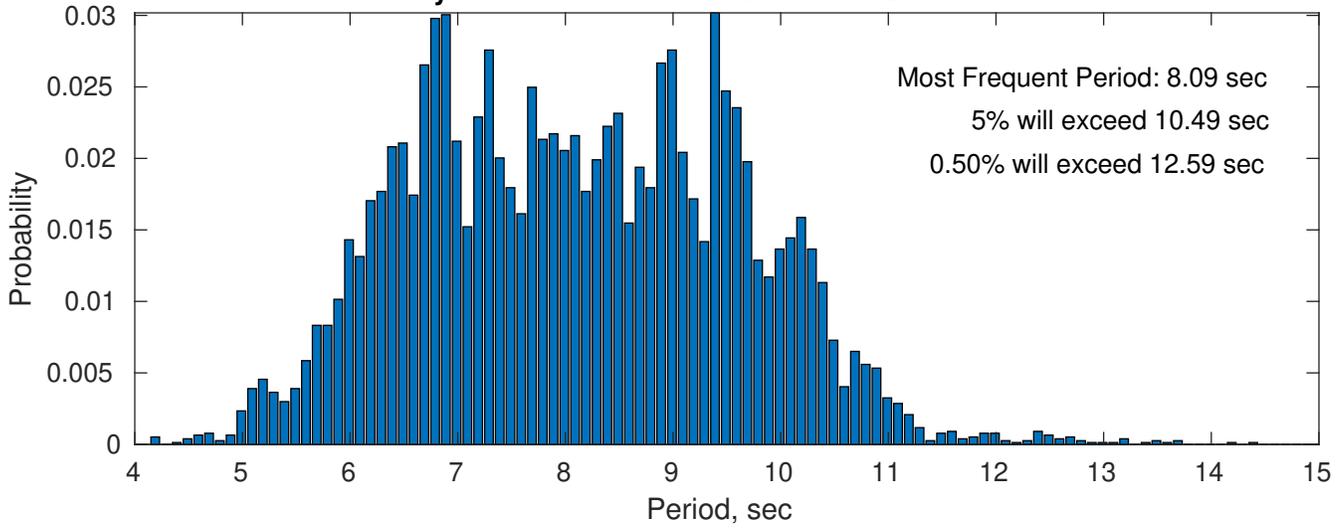
**Wind-Sea: 14.95%**



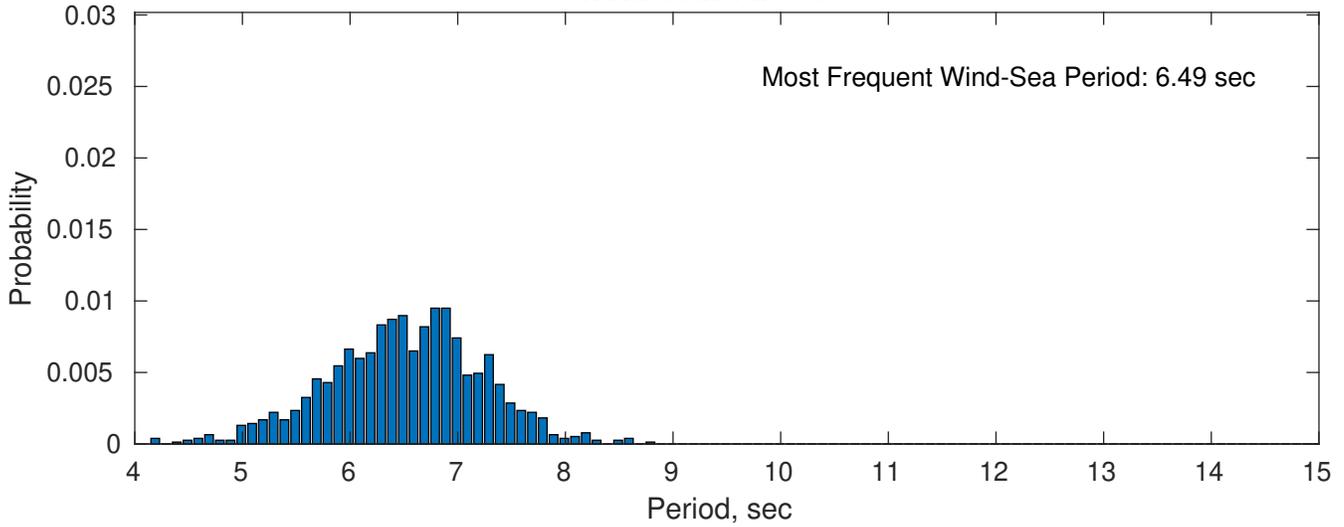
**Swell: 85.05%**



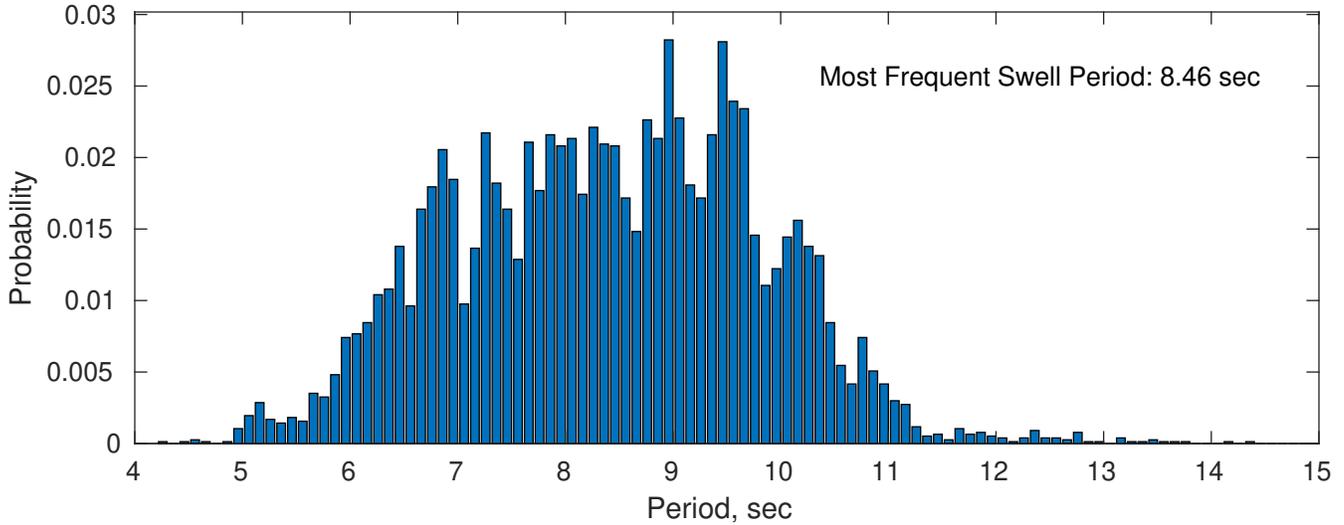
### May Peak Wave Period PDF: 1979 - 2015



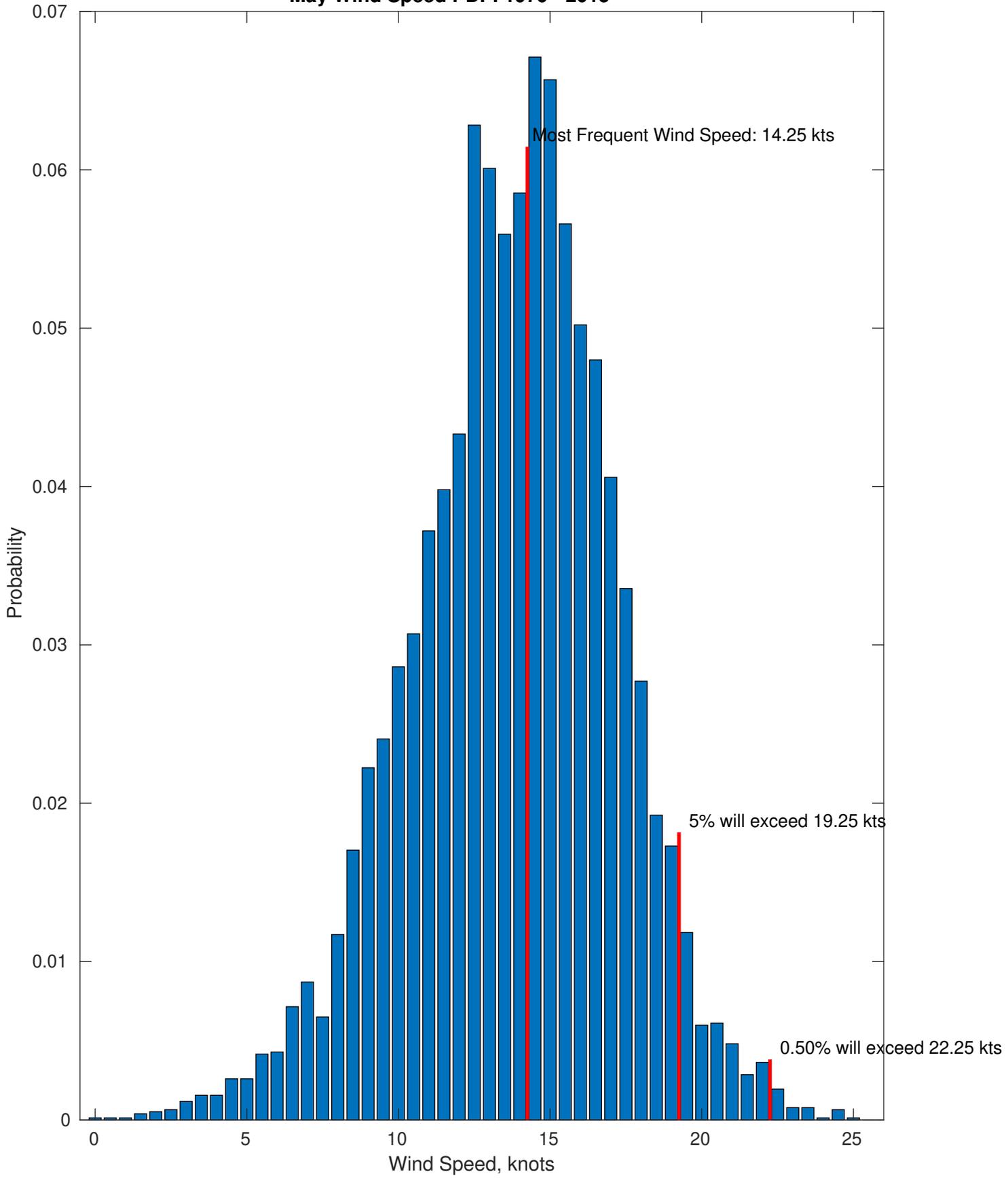
### Wind-Sea: 14.95%



### Swell: 85.05%



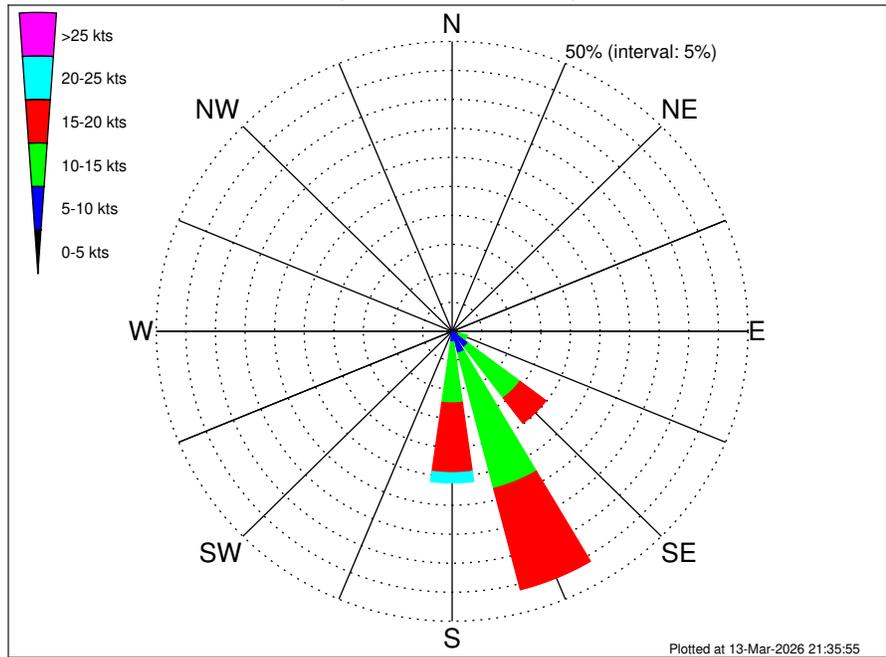
May Wind Speed PDF: 1979 - 2015







Zanzibar MBES Climatological Wind Rose for May: 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 - 5 kts	0.01	0.01	0.03	0.05	0.10	0.09	0.16	0.09	0.08	0.01	0.04	0.01	0.04	0.04	0.05	0.04	0.86
5 - 10 kts	0.01	0.03	0.03	0.03	0.25	1.16	3.24	3.80	1.74	0.30	0.13	0.05	0.04	0.04	•	0.01	10.85
10 - 15 kts	•	0.01	0.01	•	0.14	1.40	10.98	24.12	10.54	1.00	0.12	0.05	0.04	•	•	•	48.41
15 - 20 kts	•	•	0.03	•	•	0.35	5.48	18.03	12.04	1.14	•	•	•	•	•	•	37.07
20 - 25 kts	•	•	•	•	•	0.01	0.27	0.43	1.74	0.31	•	•	•	•	•	•	2.77
25 - 30 kts	•	•	0.01	•	•	•	•	•	•	•	•	•	•	•	•	•	0.01
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.03	0.05	0.10	0.08	0.51	3.02	20.12	46.46	26.14	2.77	0.30	0.12	0.12	0.08	0.05	0.05	100.00