

## Zanzibar MBES - October

Latitude: 5.47 S Longitude: 41.14 E

### Weather Days

Wave Height > 5.0 ft Mean: 18.2 days Range: 12.5 - 23.9 days p50:19.5 days p75:15.5 days p90:11 days

Wave Height > 6.5 ft Mean: 5.0 days Range: 1.3 - 8.7 days p50:4.5 days p75:3 days p90:2 days

Wave Height > 8.0 ft Mean: 0.8 days Range: 0.0 - 2.2 days p50:30 days p75:1 days p90:0.5 days

Wind Speed > 15.0 knots Mean: 1.9 days Range: 0.3 - 3.5 days p50:2 days p75:1 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 2.3 times per month  
A 2 day or longer window will statistically occur 1.7 times per month  
A 3 day or longer window will statistically occur 1.2 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 2.6 times per month  
A 3 day or longer window will statistically occur 2.1 times per month

Wave Height < 8.0 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 1.4 times per month

### Waves

Mean Height: 4 - 6 ft

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

Mean Period: 8 - 10 sec

The wave periods will occasionally reach 10 - 12 sec, but rarely longer.

Principle Direction, from: ESE

WindSea/Swell: 0% / 100%

### Winds

Mean Speed: 10 - 15 kts

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

Principle Direction, from: SE

### Currents

Mean Speed: 0.50-0.75 kts

The currents will occasionally reach 1.50-1.75 kts, but rarely greater.

Principle Direction, to: NNW

Weather Days

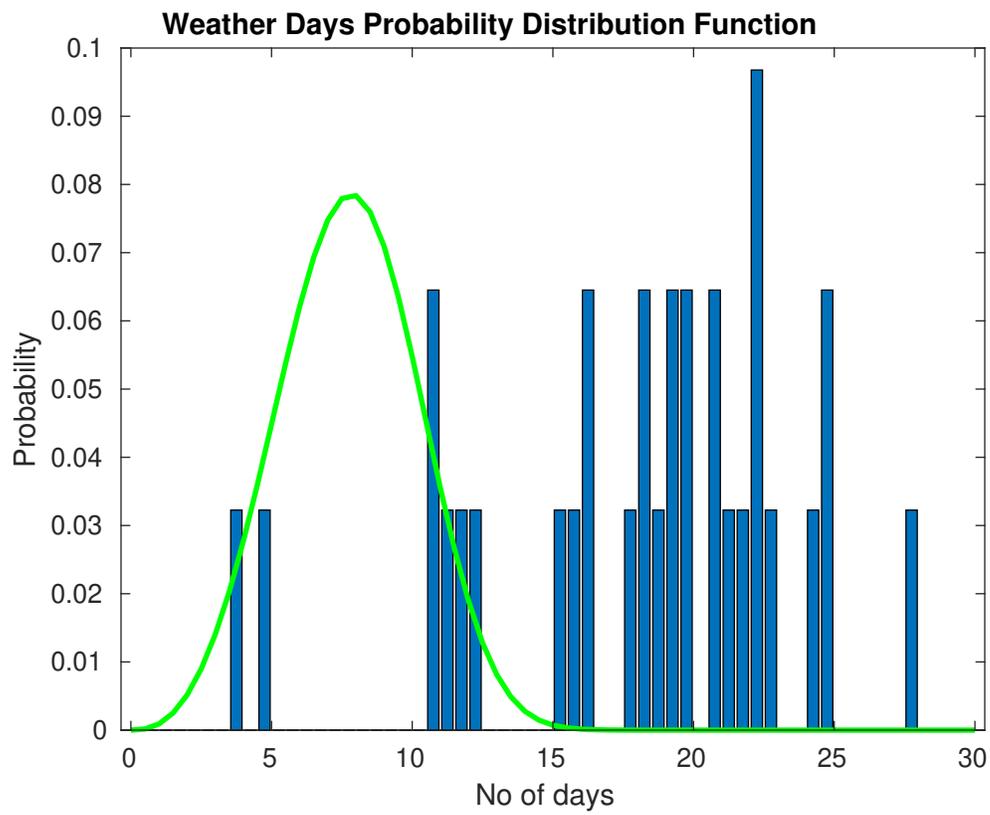
Current Speed > 0.5 knots Mean: 18.9 days Range: 13.5 - 24.3 days p50:21 days p75:16 days p90:12 days

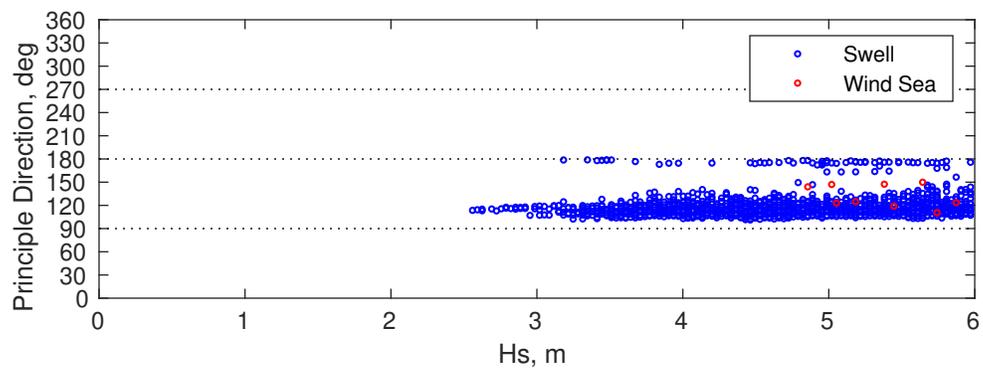
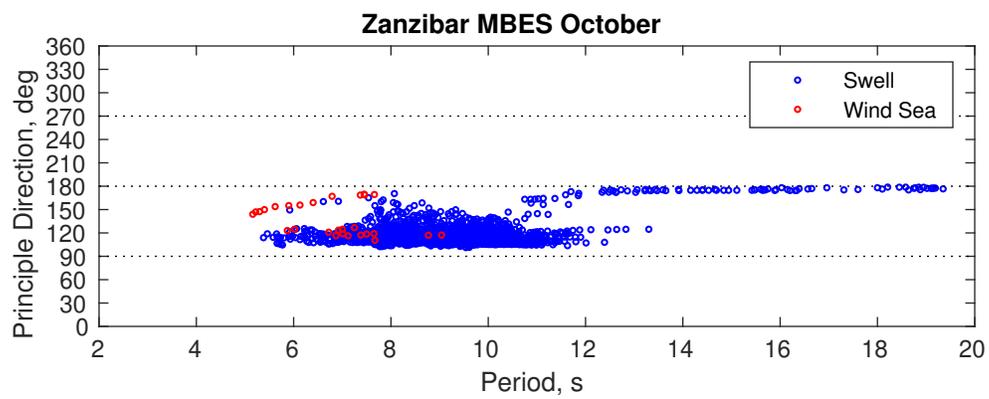
Current Speed > 1.0 knots Mean: 3.9 days Range: 0.0 - 8.1 days p50:4 days p75:2 days p90:1 days

Current Speed > 1.5 knots Mean: 0.4 days Range: 0.0 - 1.3 days p50:1 days p75:1 days p90:1 days

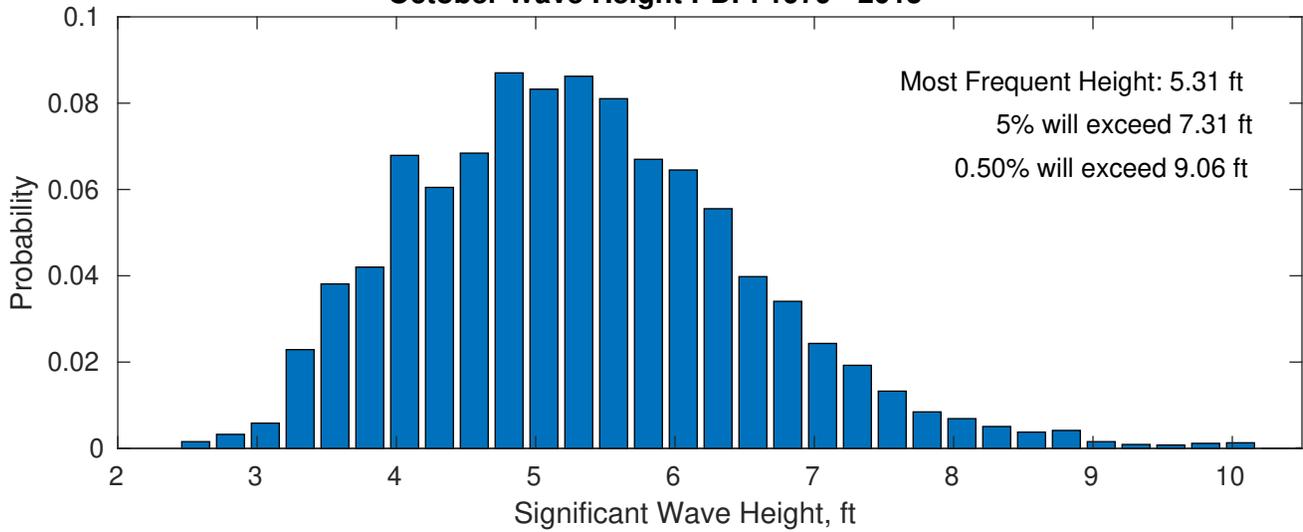
### Severe Storms

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

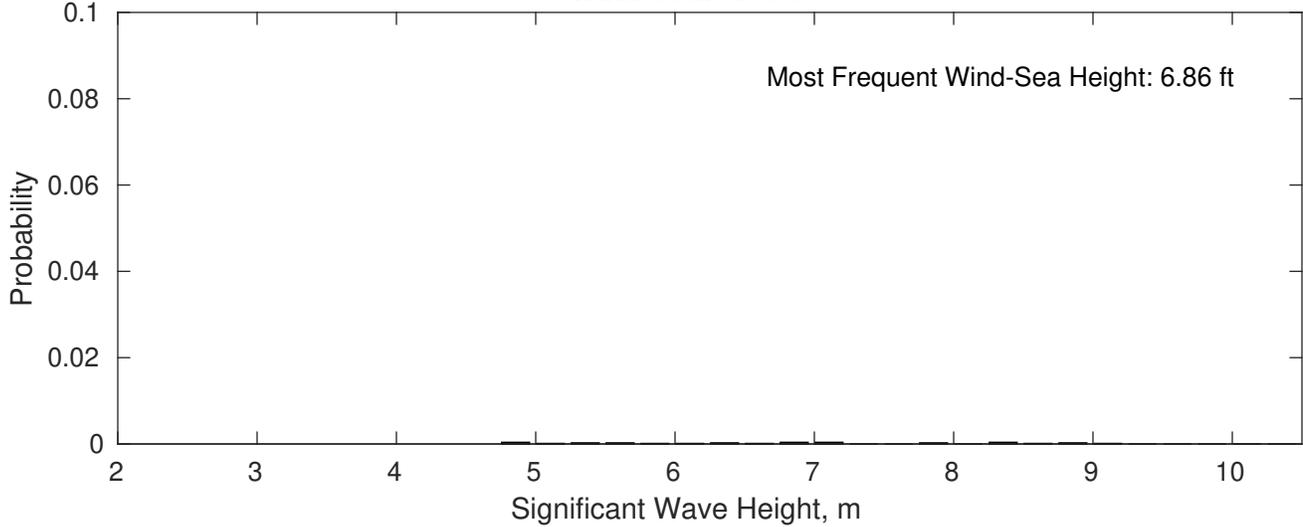




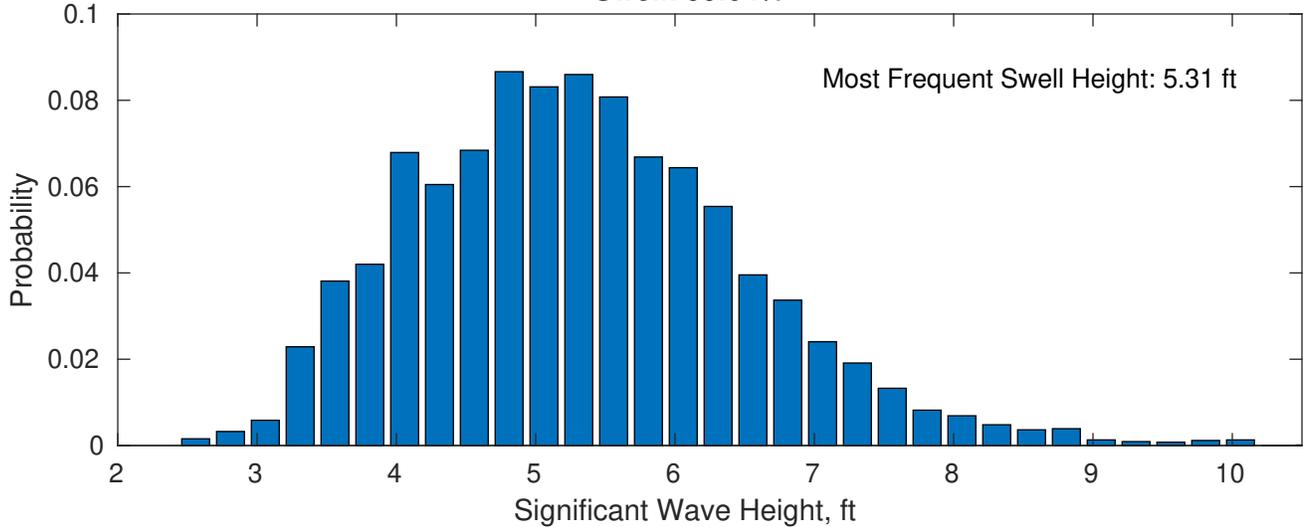
**October Wave Height PDF: 1979 - 2015**



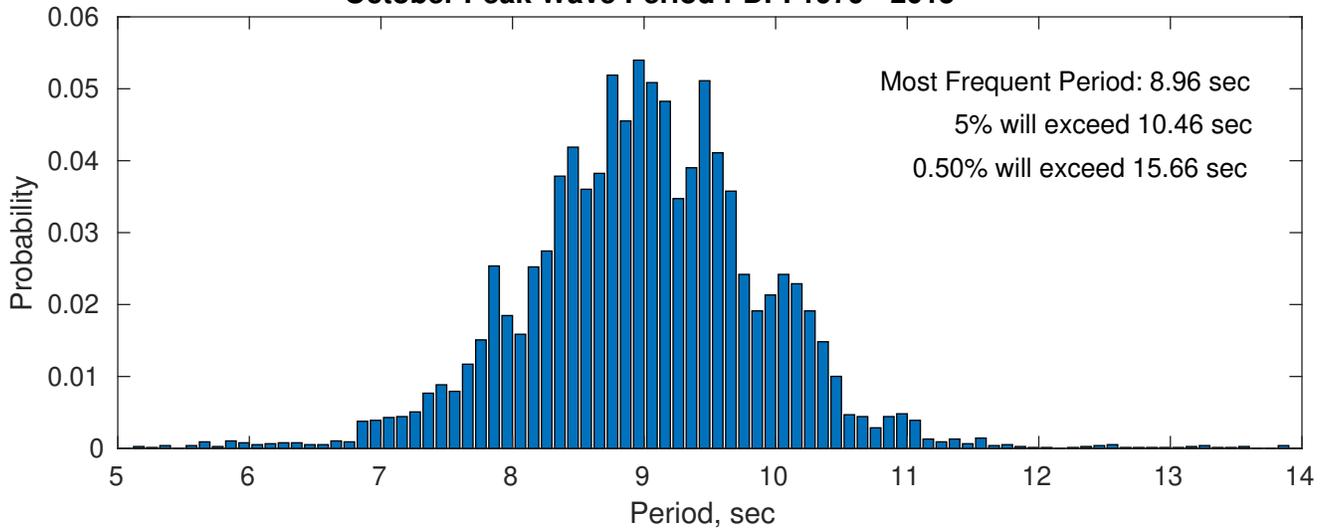
**Wind-Sea: 0.36%**



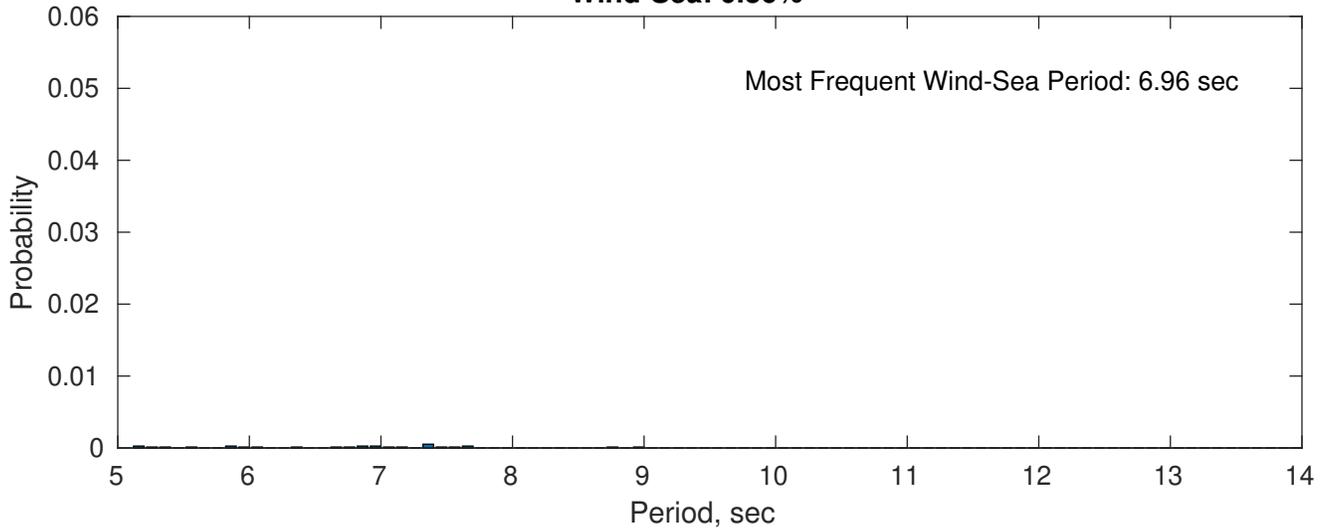
**Swell: 99.64%**



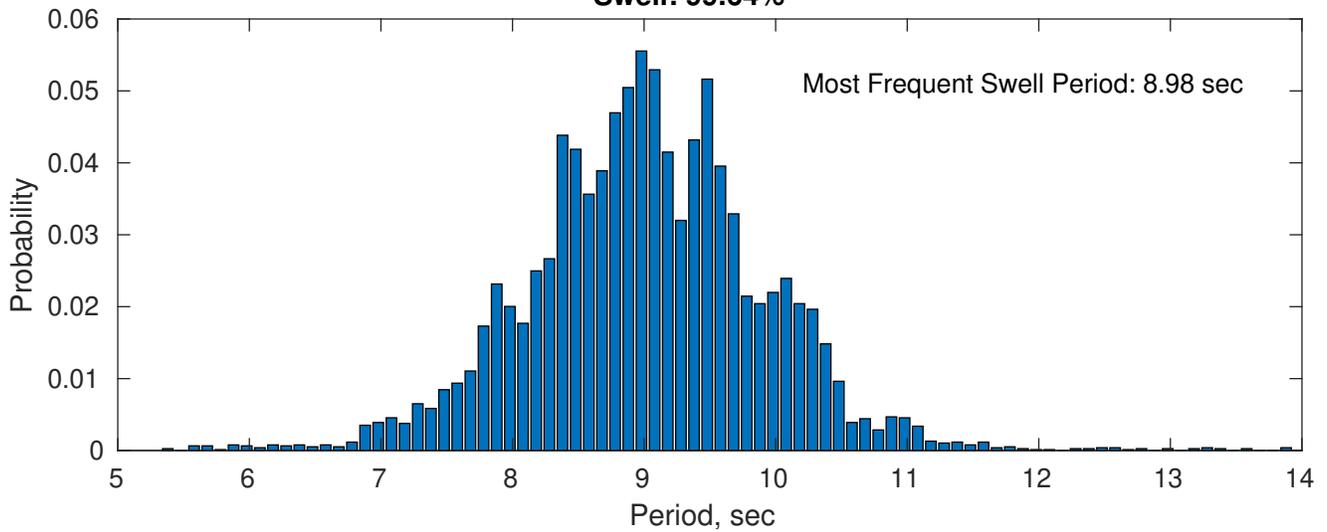
### October Peak Wave Period PDF: 1979 - 2015



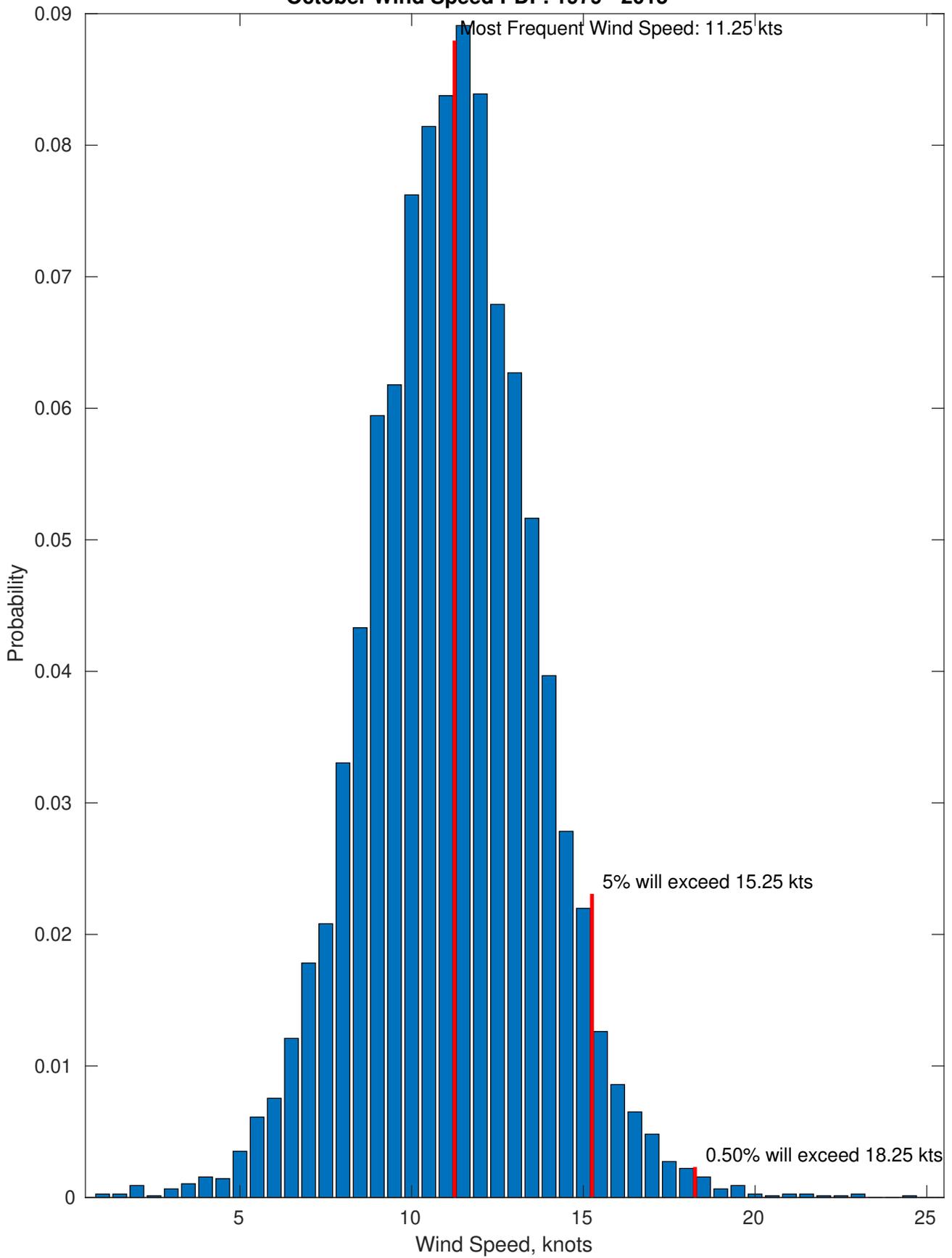
### Wind-Sea: 0.36%



### Swell: 99.64%



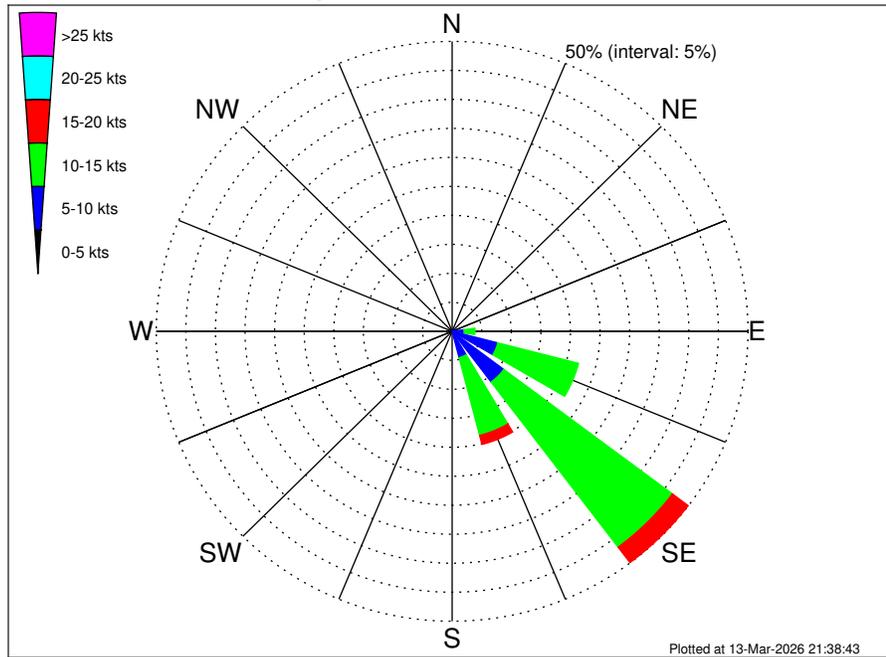
### October Wind Speed PDF: 1979 - 2015







Zanzibar MBES 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 - 5 kts	•	•	•	0.05	0.08	0.16	0.12	0.07	0.07	0.03	0.03	0.01	•	0.01	0.01	•	0.62
5 - 10 kts	•	•	•	0.10	1.95	7.83	10.84	4.63	0.90	0.29	0.01	•	•	•	•	•	26.55
10 - 15 kts	•	•	•	0.05	1.83	14.07	35.67	13.85	0.85	0.09	•	•	•	•	•	•	66.42
15 - 20 kts	•	•	•	•	0.04	1.08	3.33	1.60	0.21	•	•	•	•	•	•	•	6.26
20 - 25 kts	•	•	•	•	•	0.04	0.05	0.03	0.03	0.01	•	•	•	•	•	•	0.16
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	•	•	0.21	3.90	23.18	50.00	20.17	2.04	0.42	0.04	0.01	•	0.01	0.01	•	100.00