

Zanzibar MBES - January

Latitude: 5.47 S Longitude: 41.14 E

Weather Days

Wave Height > 5.0 ft Mean: 15.2 days Range: 9.6 - 20.8 days p50:16 days p75:11 days p90:7.5 days

Wave Height > 6.5 ft Mean: 5.4 days Range: 1.5 - 9.2 days p50:6 days p75:3 days p90:0.5 days

Wave Height > 8.0 ft Mean: 1.4 days Range: 0.0 - 3.0 days p50:4 days p75:2 days p90:0.5 days

Wind Speed > 15.0 knots Mean: 9.4 days Range: 5.5 - 13.4 days p50:10 days p75:7 days p90:4.5 days

Wind Speed > 20.0 knots Mean: 1.0 days Range: 0.0 - 2.3 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 2.1 times per month
A 2 day or longer window will statistically occur 1.8 times per month
A 3 day or longer window will statistically occur 1.5 times per month

Wave Height < 6.5 ft
A 1 day or longer window will statistically occur 2.3 times per month
A 2 day or longer window will statistically occur 2.0 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 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

Waves

Mean Height: 4 - 6 ft

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

Mean Period: 6 - 8 sec

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

Principle Direction, from: NE

WindSea/Swell: 15% / 85%

Winds

Mean Speed: 10 - 15 kts

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

Principle Direction, from: NE

Currents

Mean Speed: 0.25-0.50 kts

The currents will occasionally reach 1.25-1.50 kts, but rarely greater.

Principle Direction, to: NNW

Weather Days

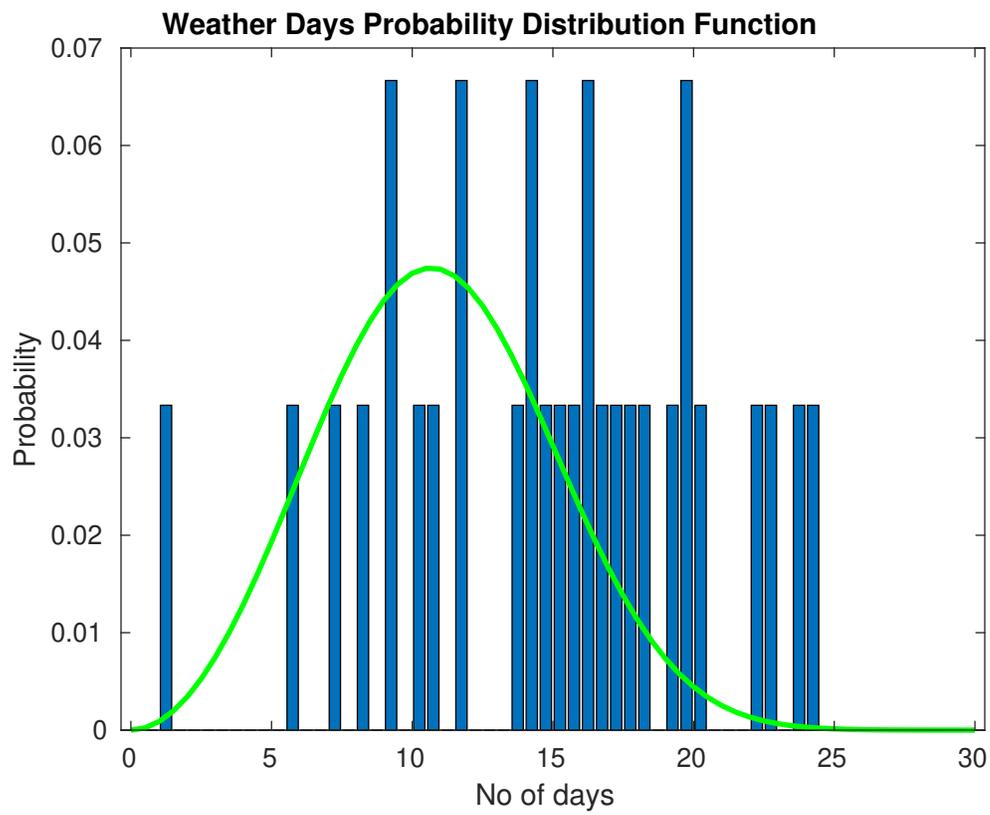
Current Speed > 0.5 knots Mean: 9.3 days Range: 2.8 - 15.7 days p50:10 days p75:6 days p90:4 days

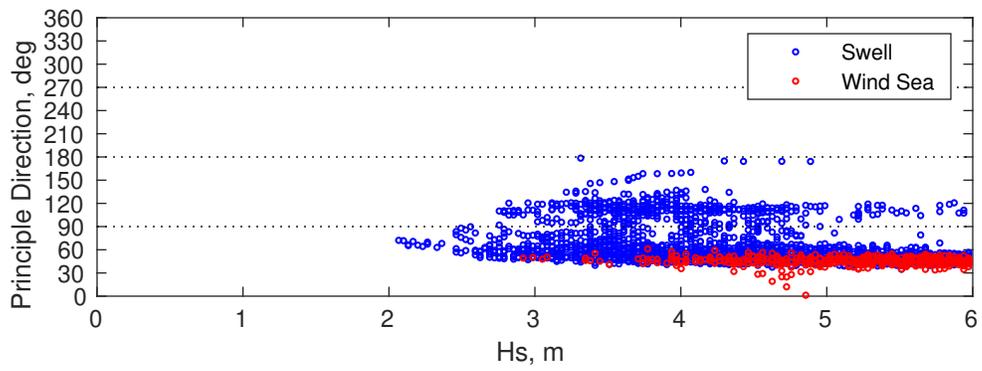
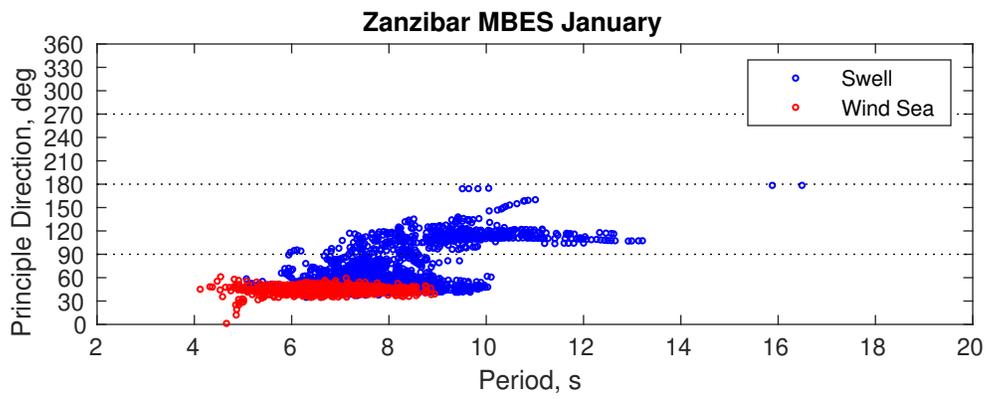
Current Speed > 1.0 knots Mean: 1.1 days Range: 0.0 - 3.3 days p50:1 days p75:1 days p90:1 days

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

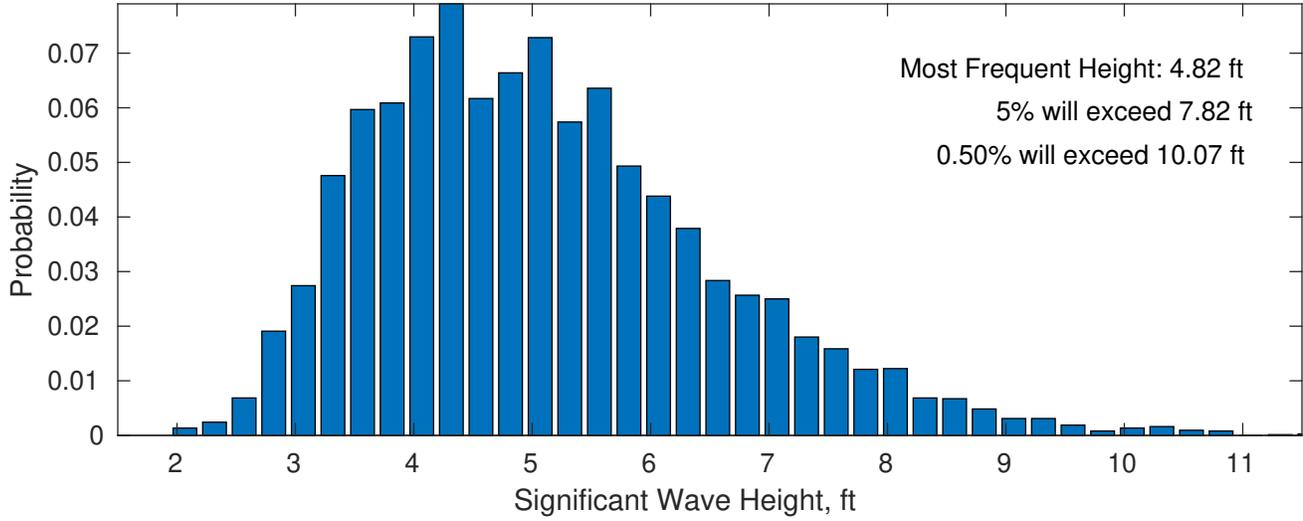
Severe Storms

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

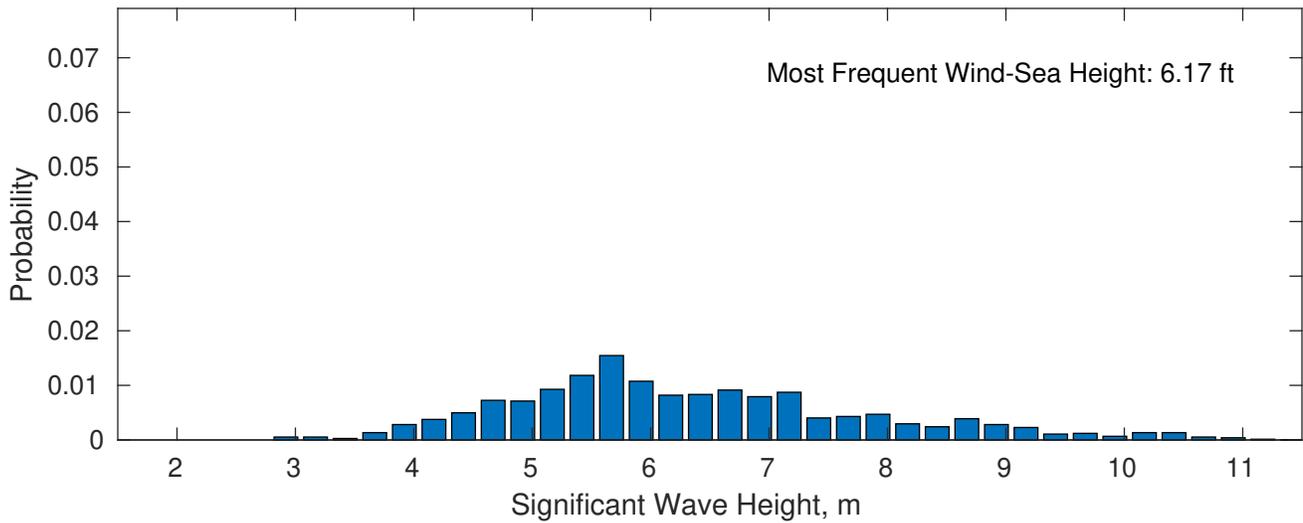




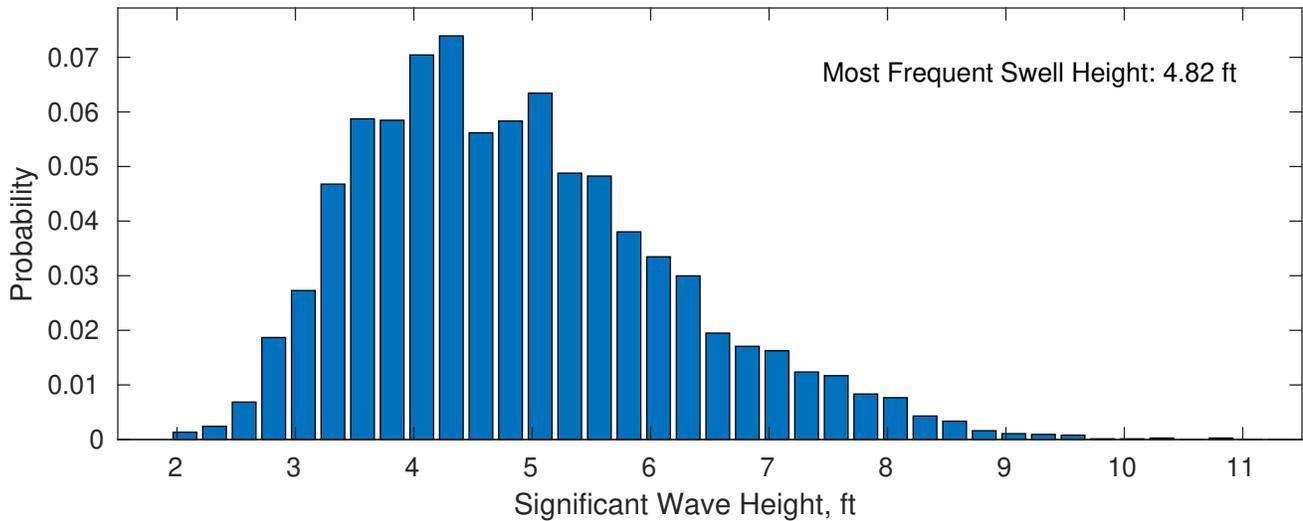
January Wave Height PDF: 1979 - 2015



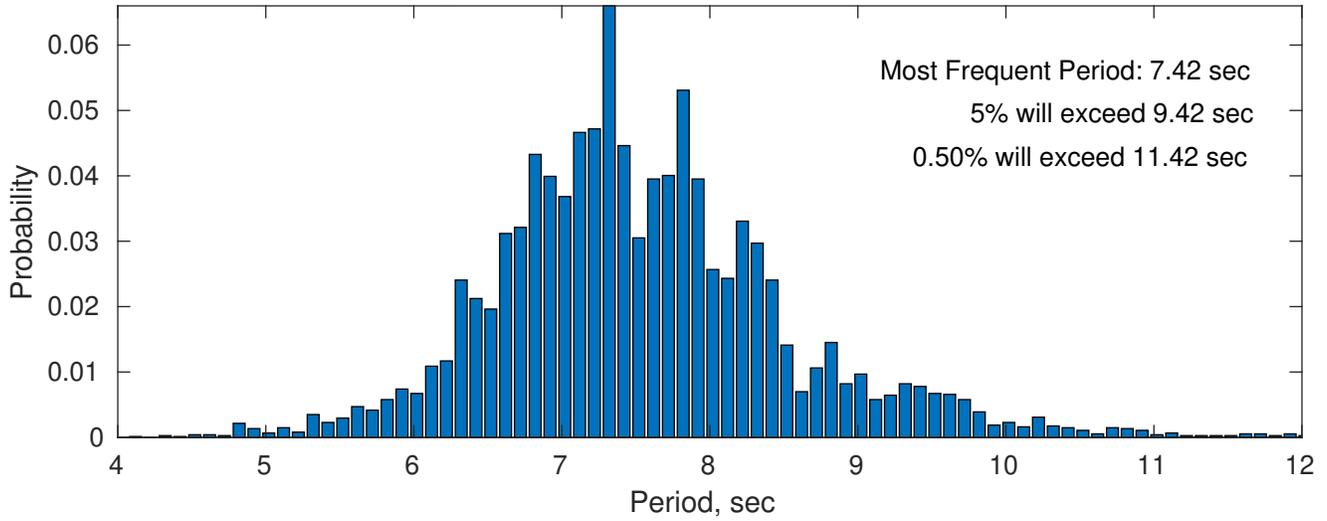
Wind-Sea: 15.28%



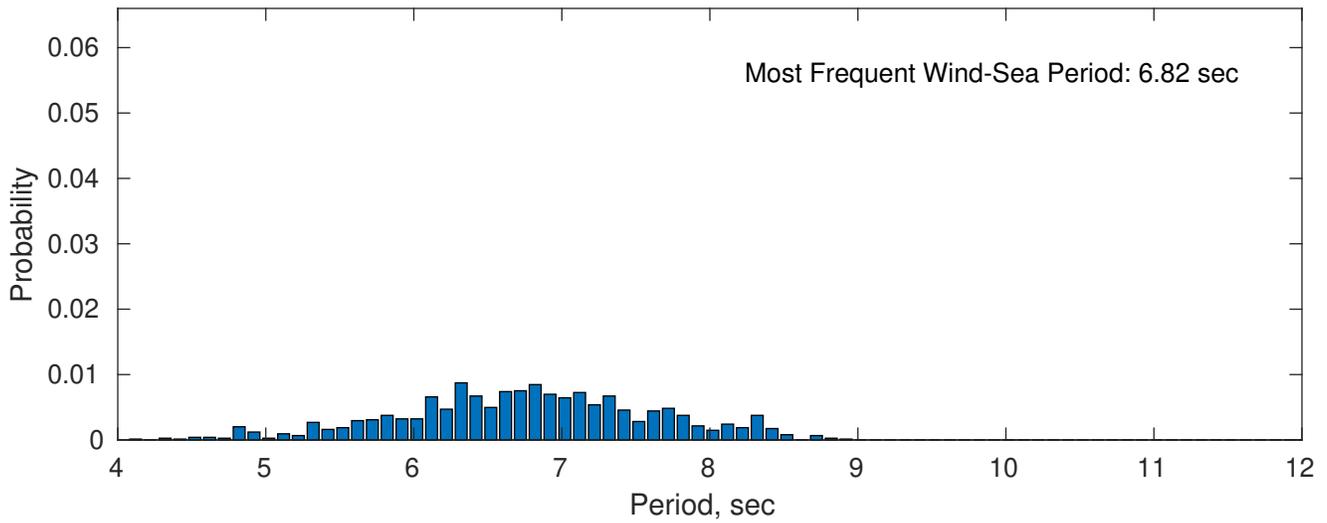
Swell: 84.72%



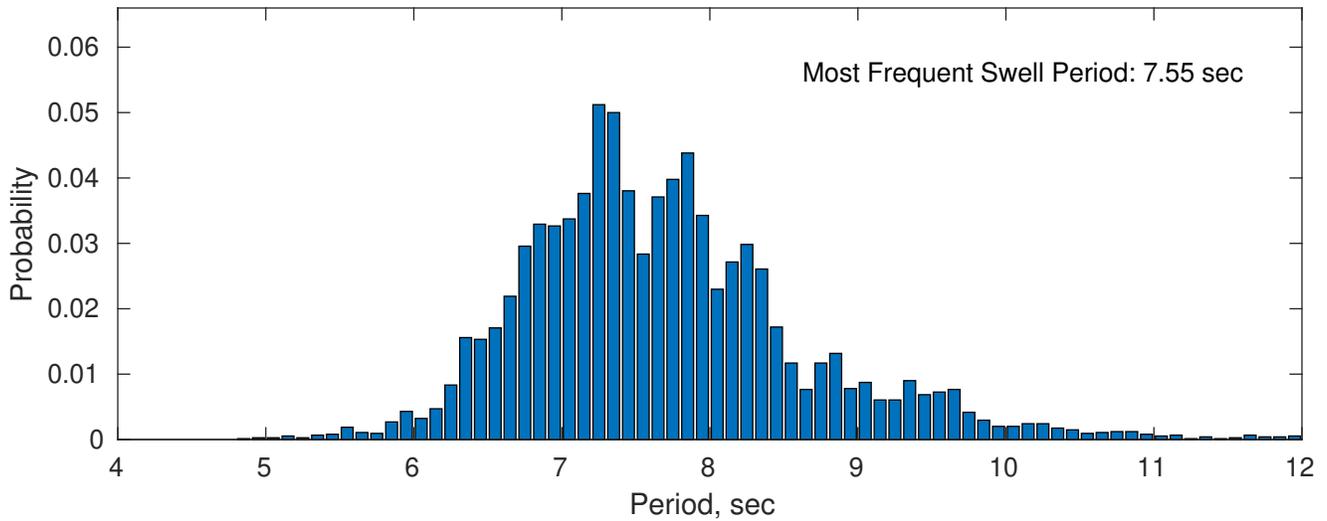
January Peak Wave Period PDF: 1979 - 2015



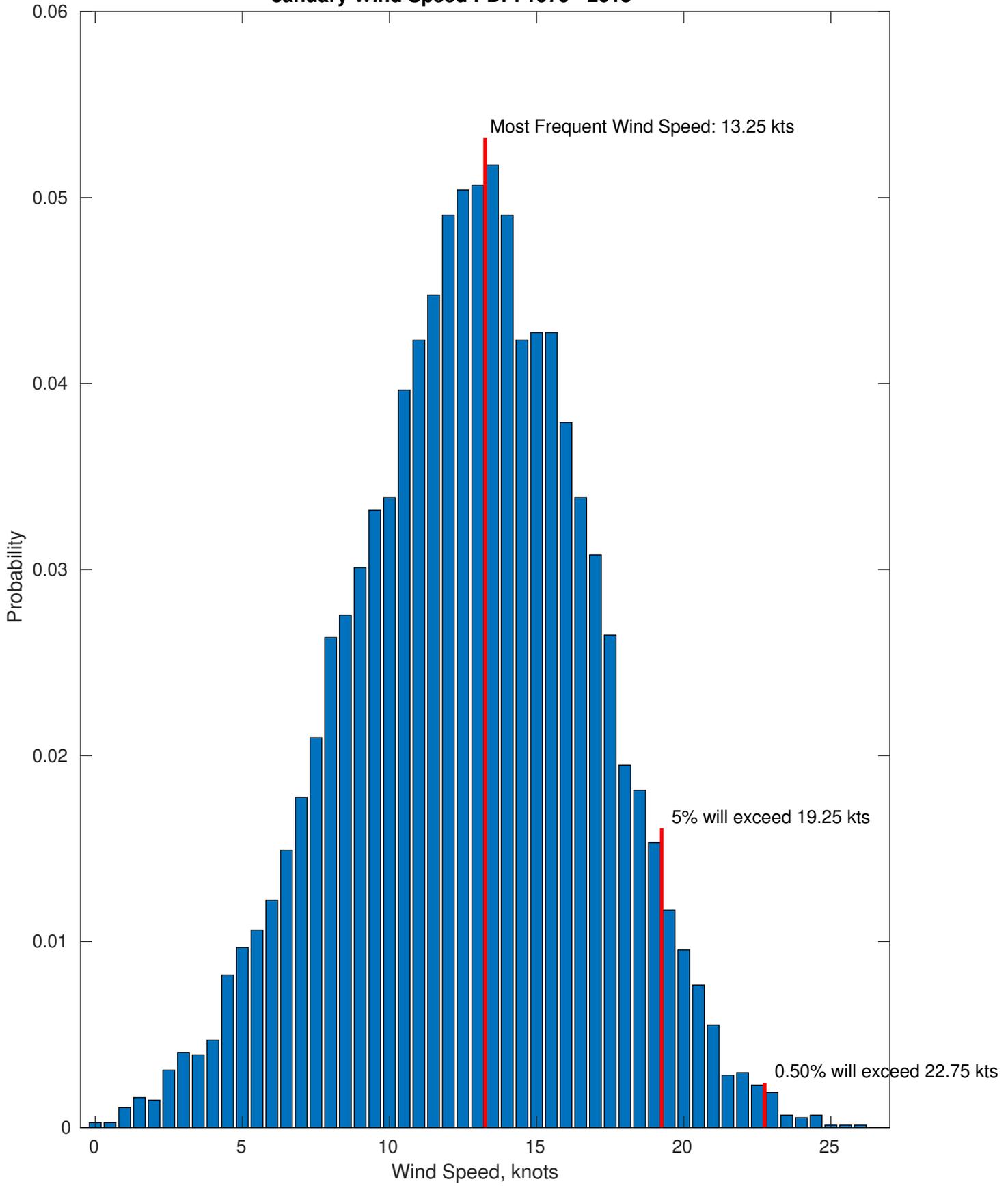
Wind-Sea: 15.28%



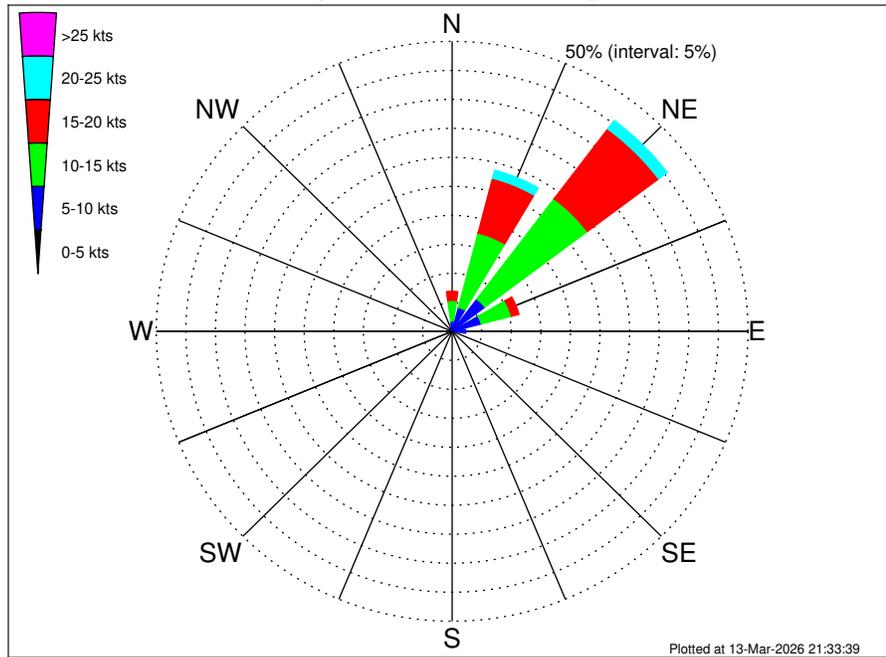
Swell: 84.72%



January Wind Speed PDF: 1979 - 2015



Zanzibar MBES Climatological Wind Rose for January: 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	•	•	•	•	•	•	0.03	•	•	•	•	•	•	0.01	0.05
0 - 5 kts	0.19	0.32	0.35	0.54	0.39	0.28	0.17	0.11	0.04	0.03	0.05	0.05	0.04	0.04	0.09	0.11	2.81
5 - 10 kts	1.59	3.91	6.60	4.56	1.91	0.67	0.34	0.17	0.01	0.04	0.01	0.01	0.03	0.09	0.12	0.27	20.34
10 - 15 kts	3.58	13.27	21.68	5.26	0.71	0.04	0.09	0.01	•	•	•	•	•	•	0.22	0.54	45.39
15 - 20 kts	1.55	9.76	15.08	1.32	0.03	•	•	•	•	•	•	•	•	•	0.03	0.16	27.92
20 - 25 kts	0.19	1.41	1.80	0.04	•	•	•	•	•	•	•	•	•	•	•	0.01	3.45
25 - 30 kts	•	0.03	0.01	•	•	•	•	•	•	•	•	•	•	•	•	•	0.04
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	7.08	28.71	45.52	11.71	3.04	0.99	0.60	0.30	0.08	0.07	0.07	0.07	0.07	0.13	0.46	1.10	100.00