

Zanzibar MBES - December

Latitude: 5.47 S Longitude: 41.14 E

Weather Days

Wave Height > 5.0 ft Mean: 5.3 days Range: 1.6 - 9.0 days p50:6.5 days p75:2.5 days p90:1.5 days

Wave Height > 6.5 ft Mean: 1.5 days Range: 0.0 - 3.2 days p50:4 days p75:2 days p90:1 days

Wave Height > 8.0 ft Mean: 0.3 days Range: 0.0 - 1.1 days p50:30 days p75:30 days p90:1.5 days

Wind Speed > 15.0 knots Mean: 3.0 days Range: 0.6 - 5.3 days p50:3 days p75:1 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 0.2 days Range: 0.0 - 0.5 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 2.2 times per month
A 2 day or longer window will statistically occur 1.9 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 1.3 times per month
A 2 day or longer window will statistically occur 1.3 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 1.0 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 0.9 times per month

Waves

Mean Height: 4 - 6 ft

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

Mean Period: 6 - 8 sec

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

Principle Direction, from: ESE

WindSea/Swell: 6% / 94%

Winds

Mean Speed: 5 - 10 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: N

Weather Days

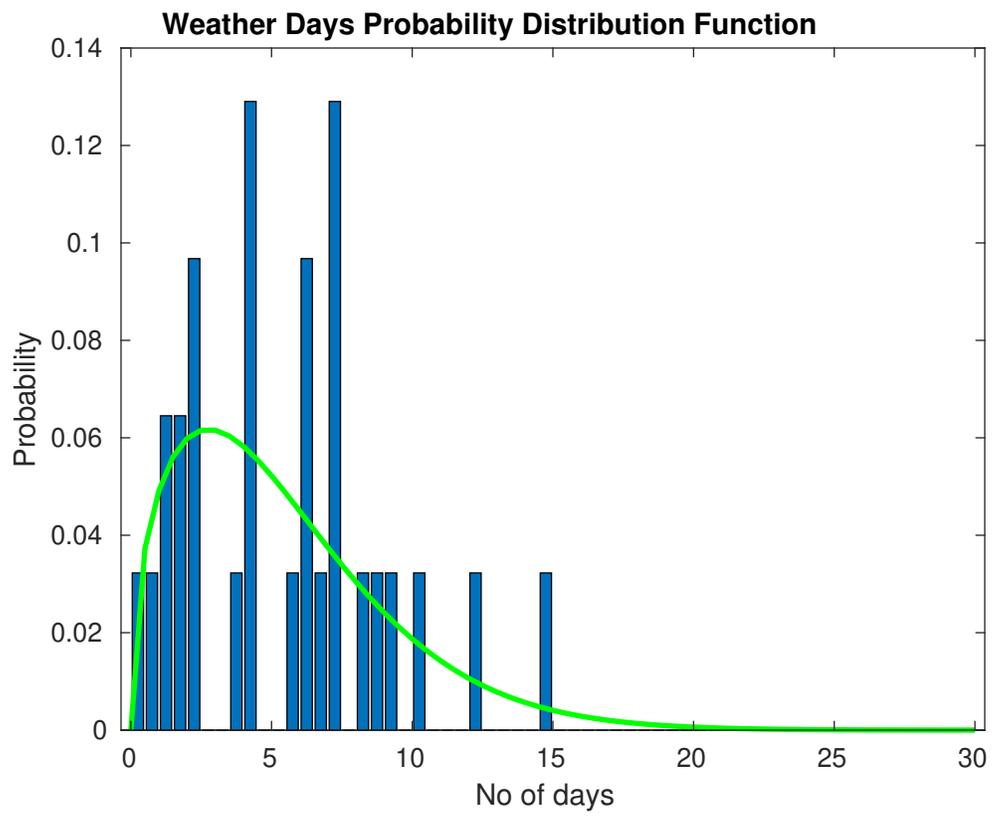
Current Speed > 0.5 knots Mean: 12.7 days Range: 6.0 - 19.5 days p50:13 days p75:8 days p90:5 days

Current Speed > 1.0 knots Mean: 1.3 days Range: 0.0 - 4.0 days p50:1 days p75:1 days p90:1 days

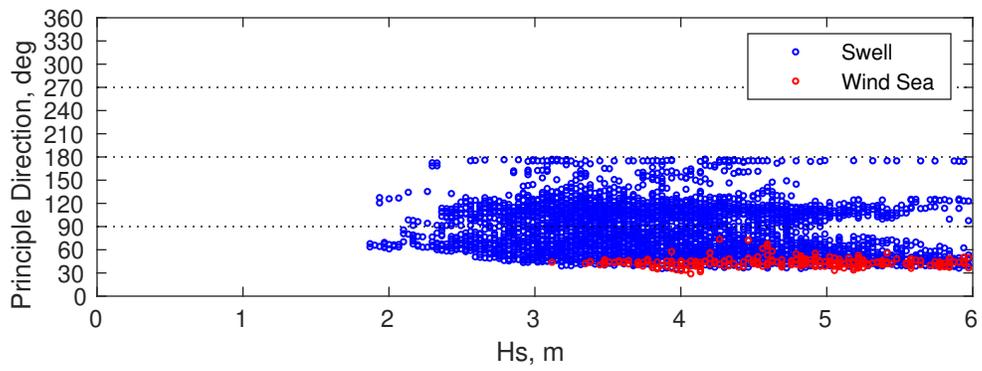
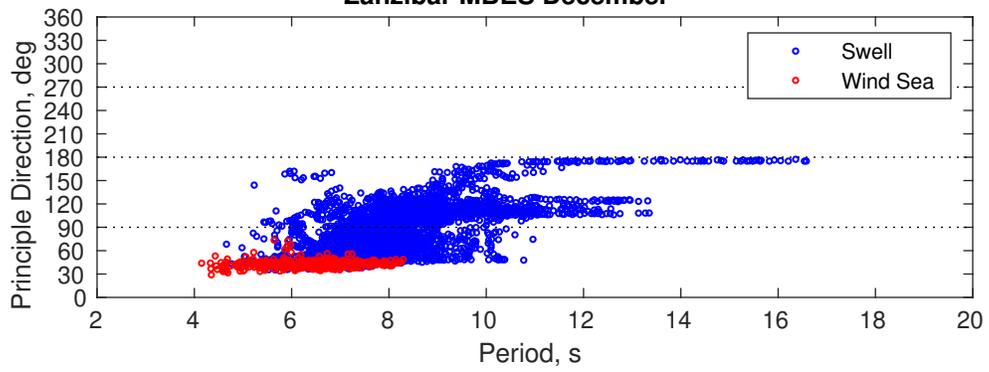
Current Speed > 1.5 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 days p75:1 days p90:1 days

Severe Storms

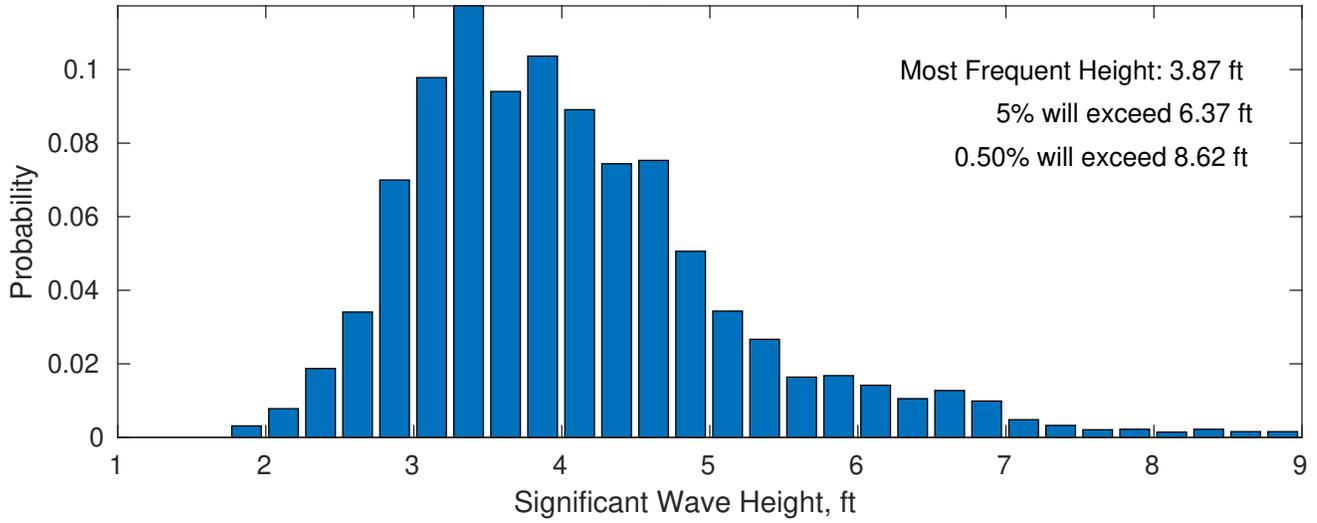
Severe storms with gale force winds and extreme waves are not expected during this month.



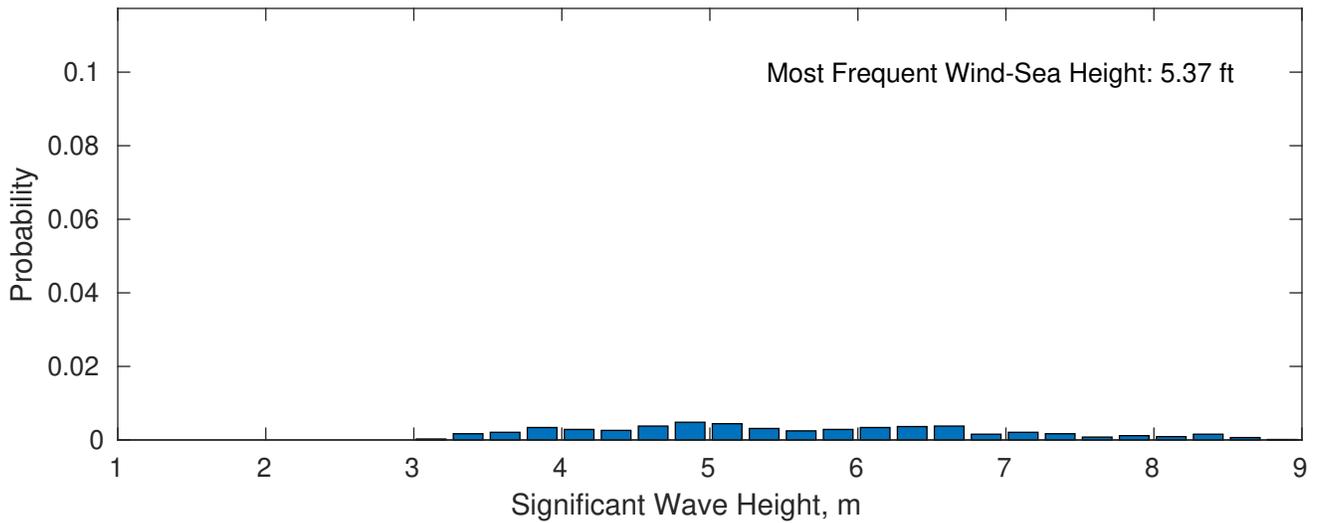
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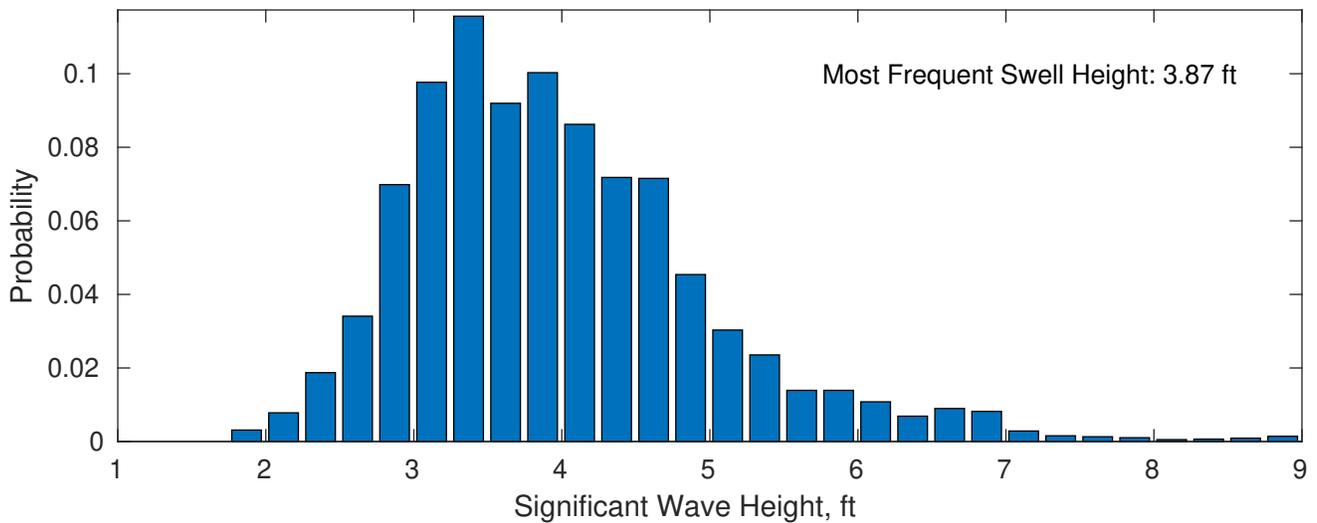
December Wave Height PDF: 1979 - 2015



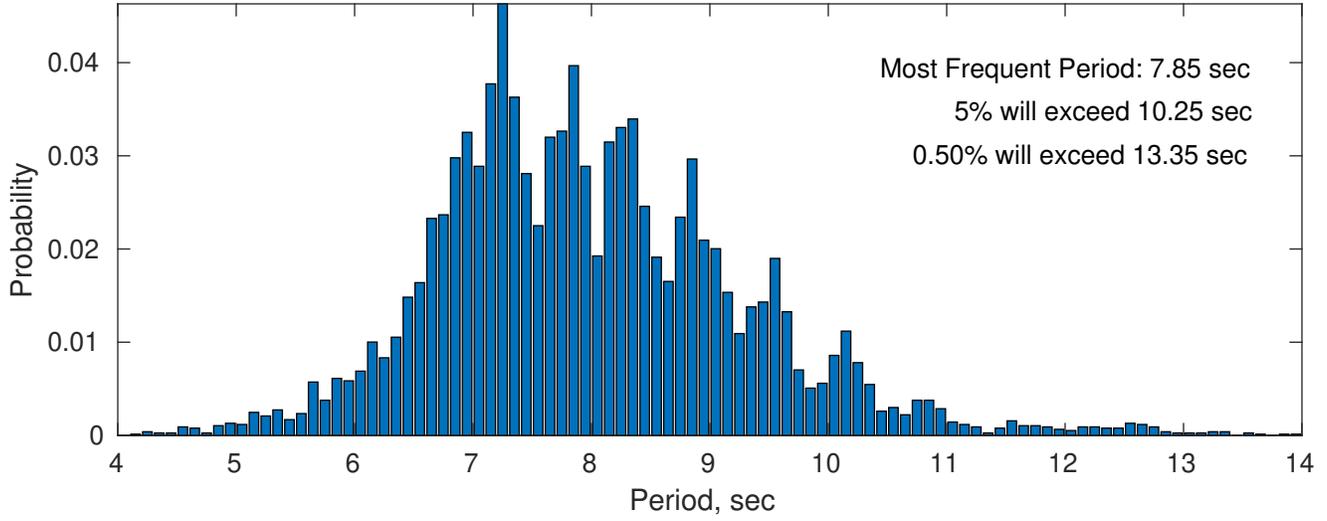
Wind-Sea: 5.74%



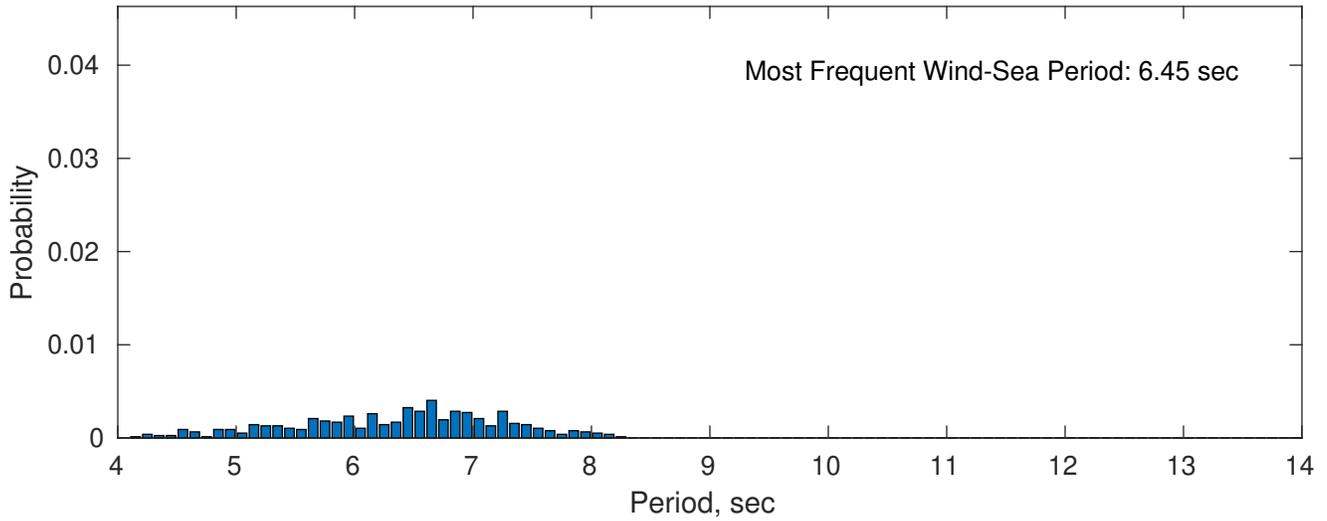
Swell: 94.26%



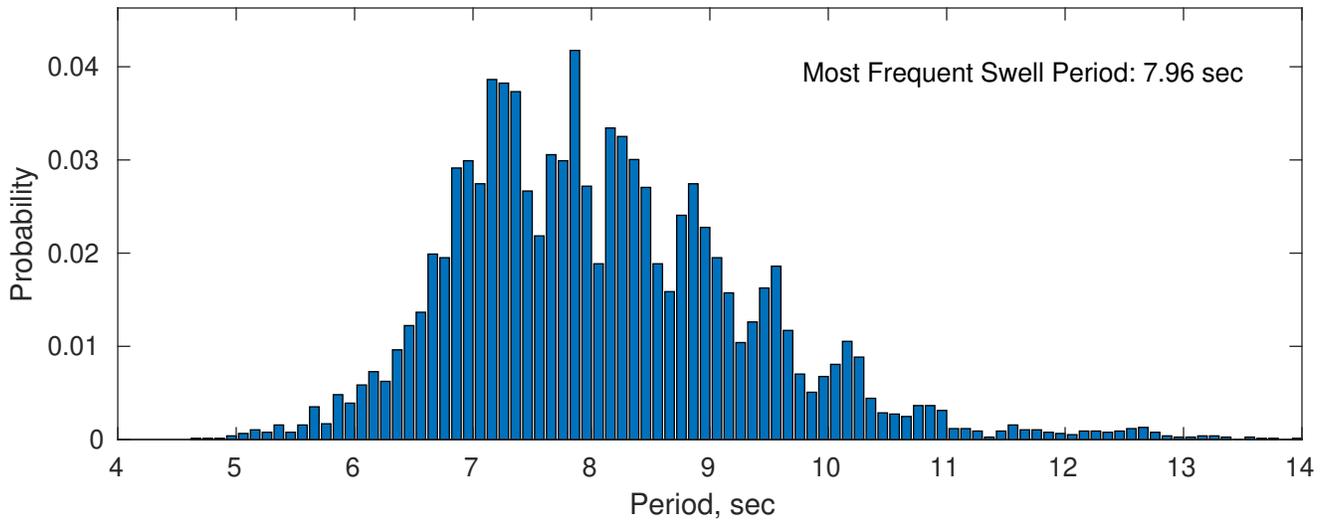
December Peak Wave Period PDF: 1979 - 2015



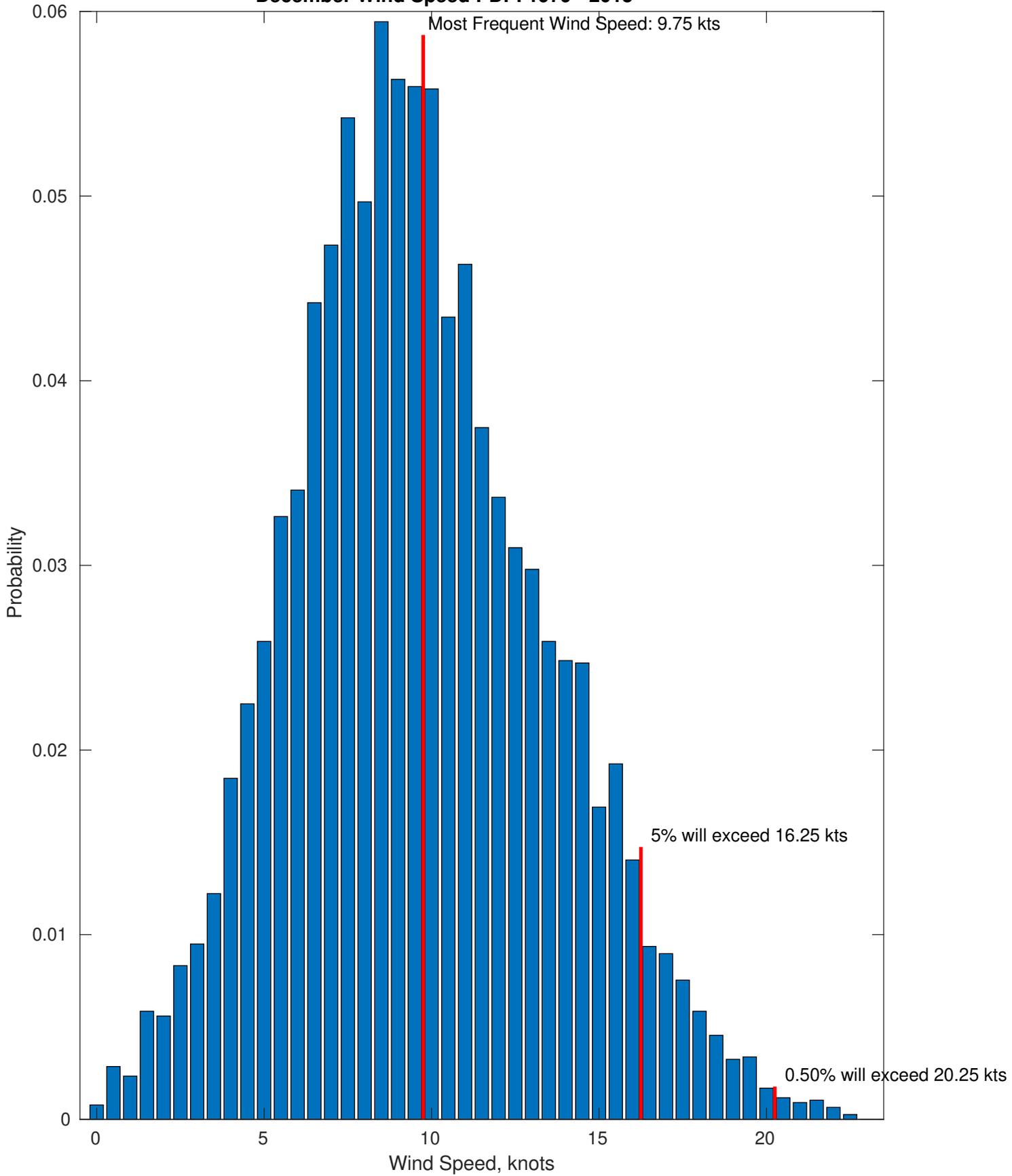
Wind-Sea: 5.74%



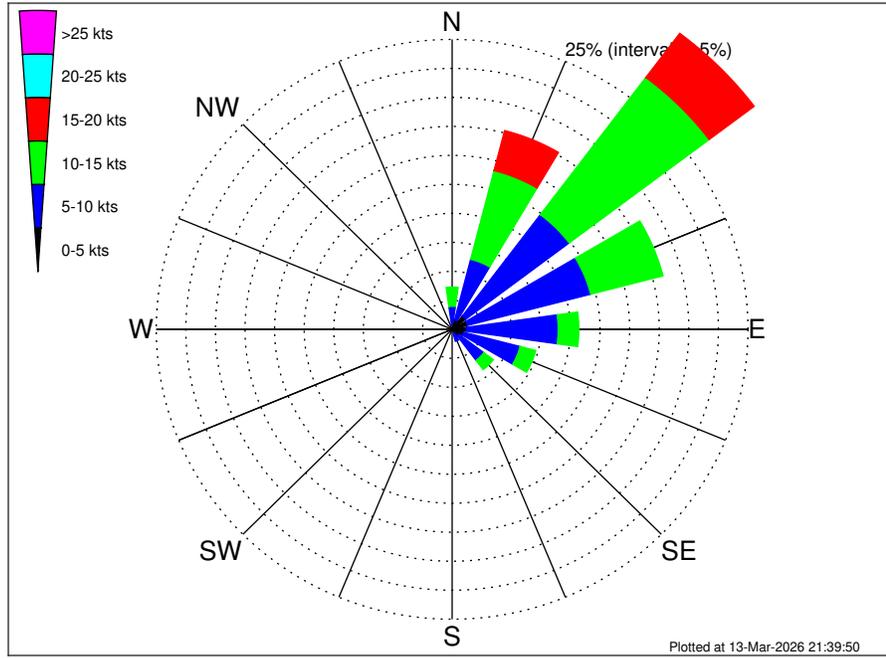
Swell: 94.26%



December Wind Speed PDF: 1979 - 2015



Zanzibar MBES Climatological Wind Rose for December: 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	0.05	0.01	0.05	0.03	0.03	•	0.04	•	0.01	•	0.07	0.03	0.01	0.01	0.36
0 - 5 kts	0.39	0.82	1.39	1.34	1.17	0.98	0.68	0.35	0.35	0.12	0.17	0.08	0.16	0.10	0.21	0.18	8.48
5 - 10 kts	1.59	5.41	10.94	10.74	7.74	4.93	2.65	0.72	0.33	0.09	0.03	0.05	0.07	0.10	0.20	0.40	45.98
10 - 15 kts	1.65	7.90	14.82	6.31	1.74	1.37	1.00	0.17	0.03	•	•	•	0.04	0.04	0.05	0.18	35.29
15 - 20 kts	0.36	3.56	4.76	0.57	0.01	•	•	•	•	•	•	•	•	•	0.01	0.03	9.31
20 - 25 kts	0.01	0.27	0.29	•	•	•	•	•	•	•	•	•	•	•	•	•	0.57
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	4.02	17.98	32.25	18.98	10.72	7.30	4.36	1.24	0.74	0.21	0.21	0.13	0.33	0.27	0.48	0.81	100.00