

Tanzania MBES - December

Latitude: 8.22 S Longitude: 41.08 E

Weather Days

Wave Height > 5.0 ft Mean: 3.9 days Range: 0.6 - 7.1 days p50:5.5 days p75:2 days p90:1 days

Wave Height > 6.5 ft Mean: 0.7 days Range: 0.0 - 1.8 days p50:30 days p75:2 days p90:1.5 days

Wave Height > 8.0 ft Mean: 0.2 days Range: 0.0 - 0.7 days p50:30 days p75:30 days p90:2 days

Wind Speed > 15.0 knots Mean: 1.7 days Range: 0.2 - 3.2 days p50:1.5 days p75:0.5 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 0.1 days Range: 0.0 - 0.3 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 1.9 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 1.5 times per month

Wave Height < 6.5 ft
A 1 day or longer window will statistically occur 1.2 times per month
A 2 day or longer window will statistically occur 1.2 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 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 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: NE

WindSea/Swell: 3% / 97%

Winds

Mean Speed: 5 - 10 kts

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

Principle Direction, from: NNE

Currents

Mean Speed: 0.50-0.75 kts

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

Principle Direction, to: WNW

Weather Days

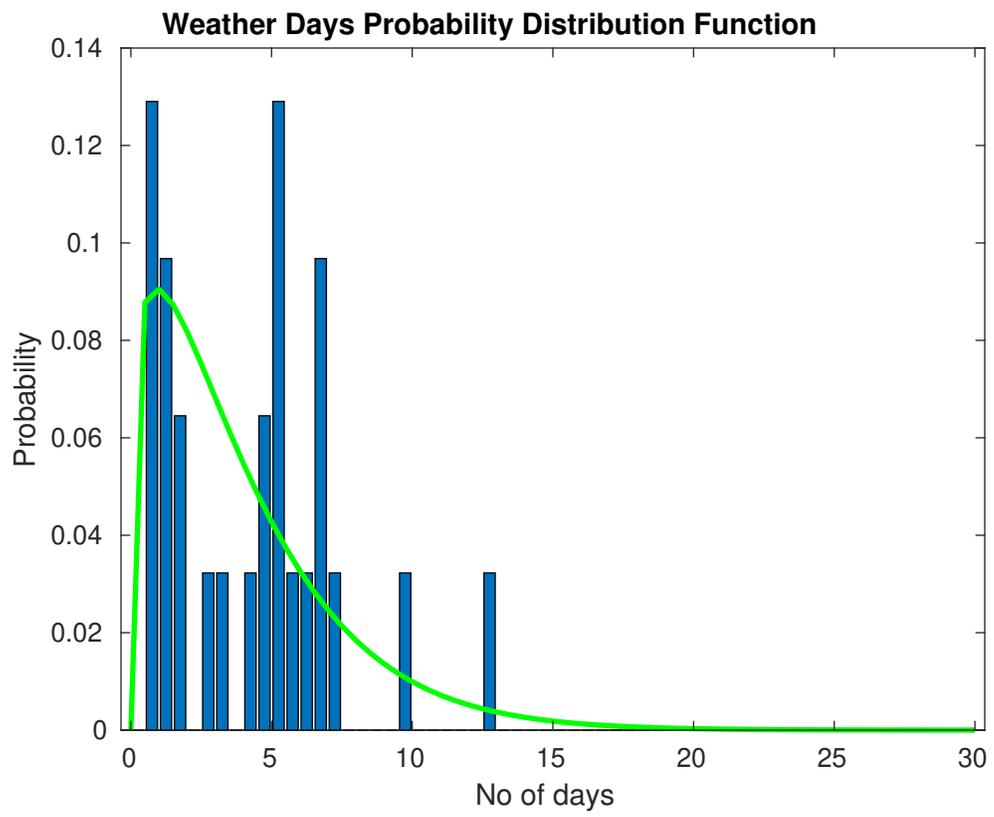
Current Speed > 0.5 knots Mean: 16.9 days Range: 12.1 - 21.8 days p50:17 days p75:15 days p90:12 days

Current Speed > 1.0 knots Mean: 2.6 days Range: 0.2 - 5.1 days p50:4 days p75:1 days p90:1 days

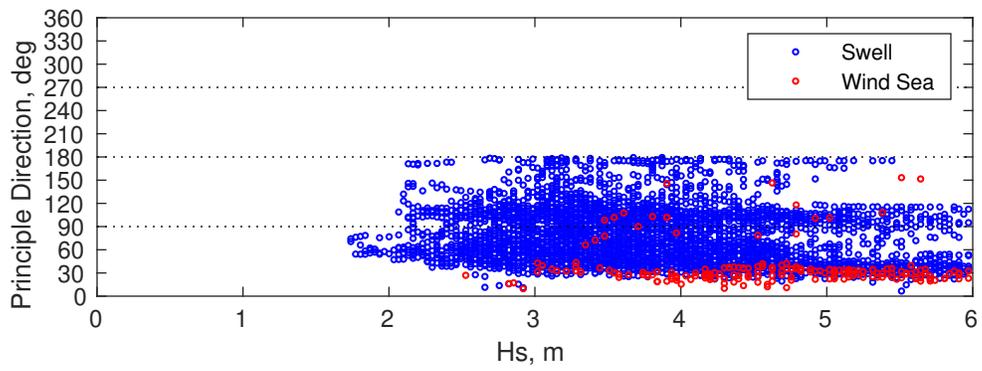
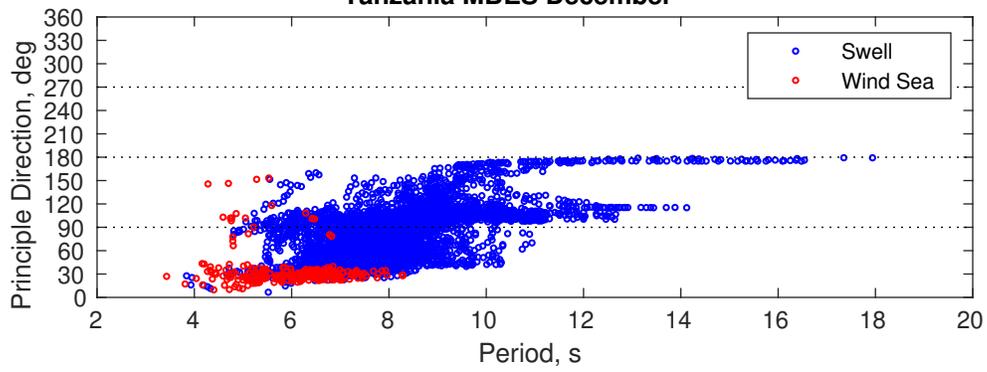
Current Speed > 1.5 knots Mean: 0.3 days Range: 0.0 - 1.0 days p50:1 days p75:1 days p90:1 days

Severe Storms

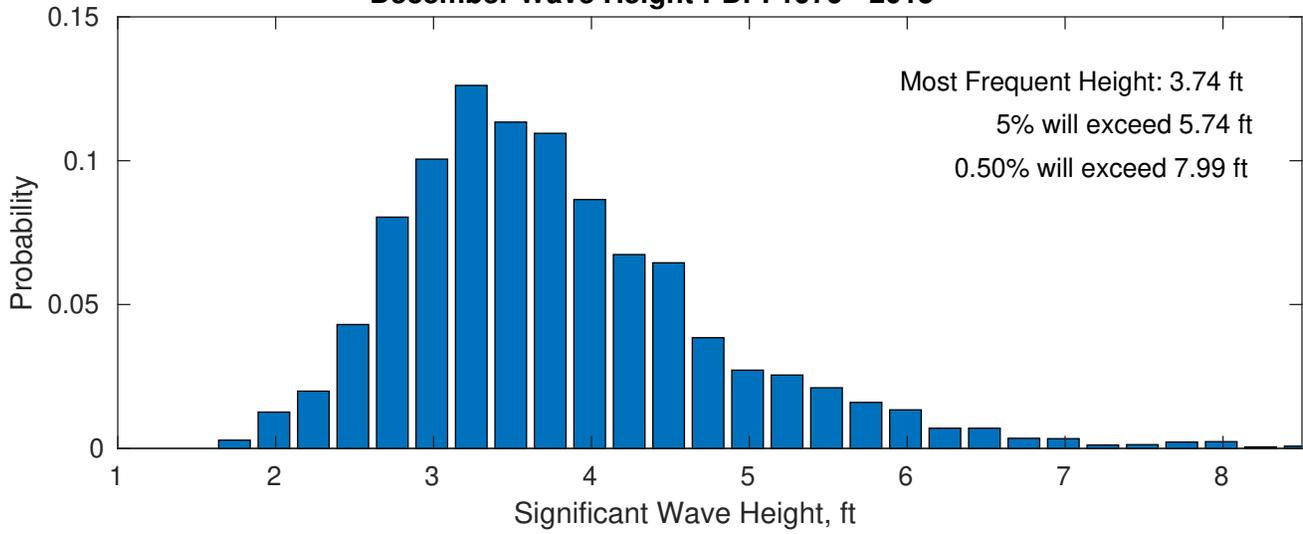
Severe storms with gale force winds and extreme waves are not expected during this month.



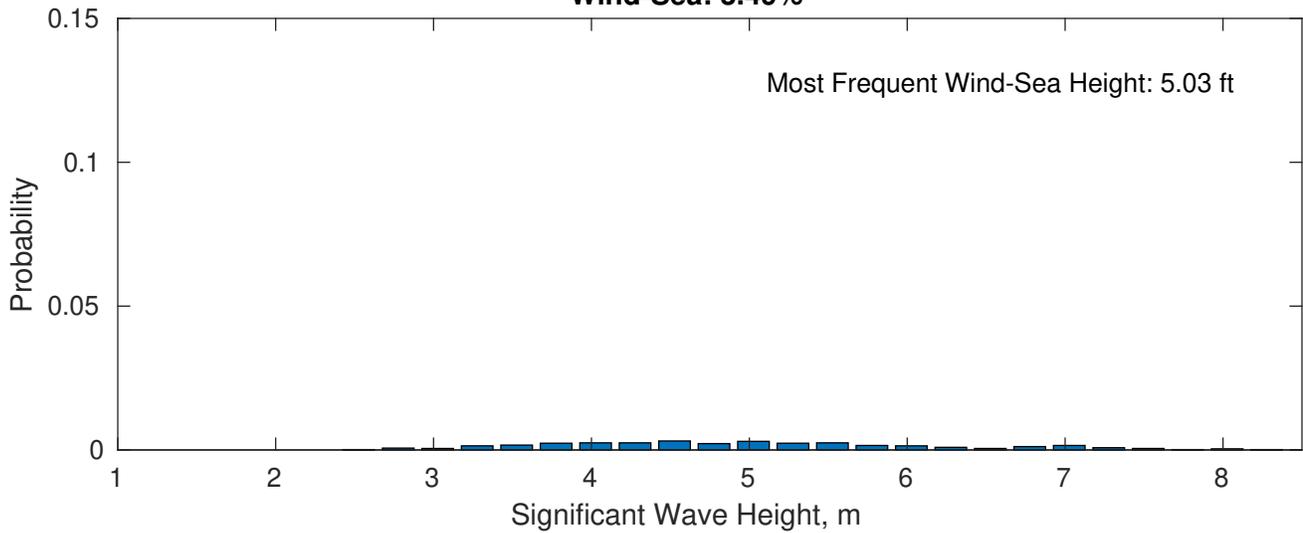
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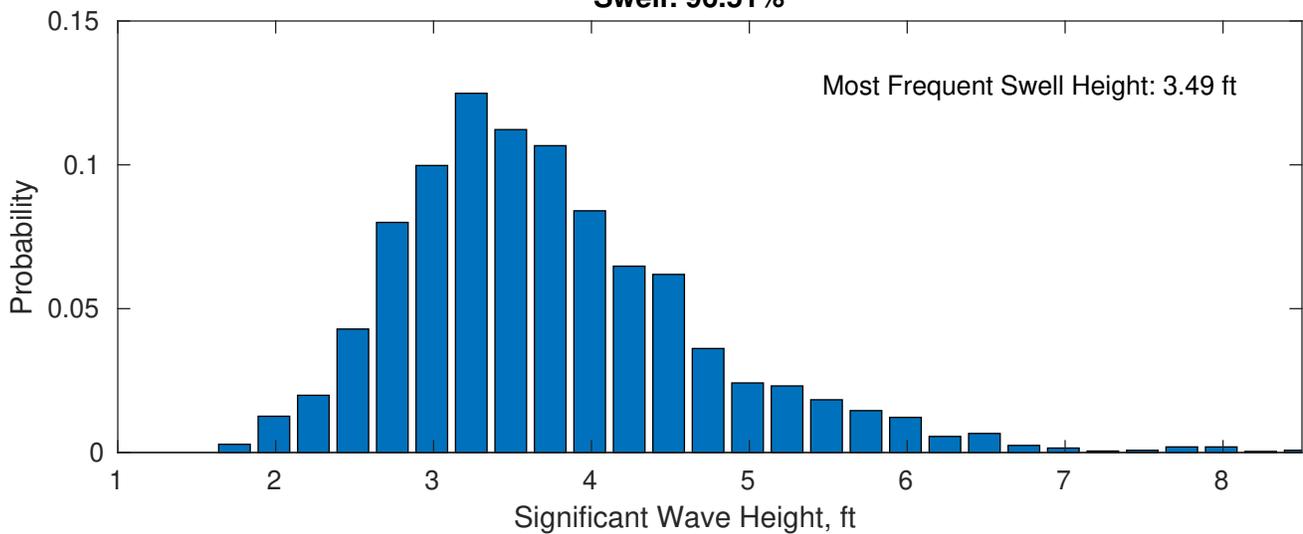
December Wave Height PDF: 1979 - 2015



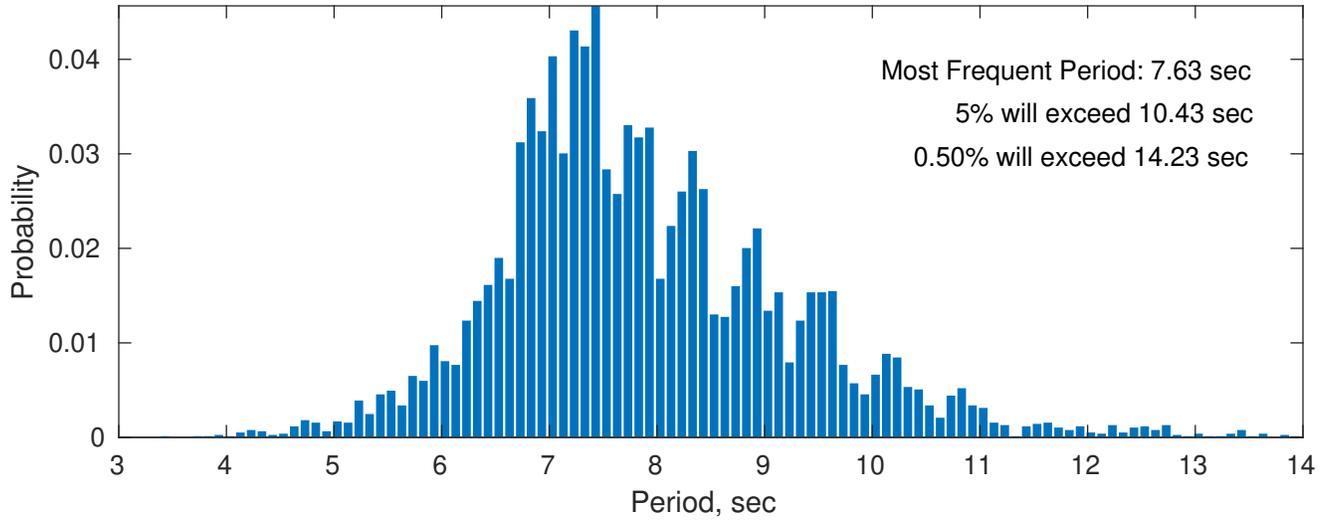
Wind-Sea: 3.49%



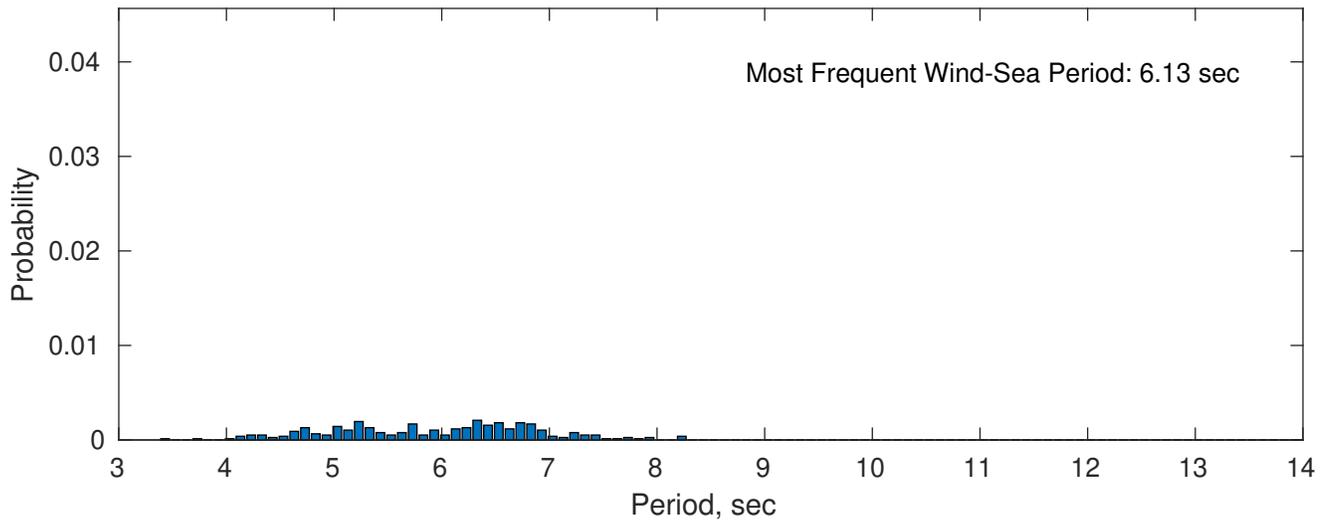
Swell: 96.51%



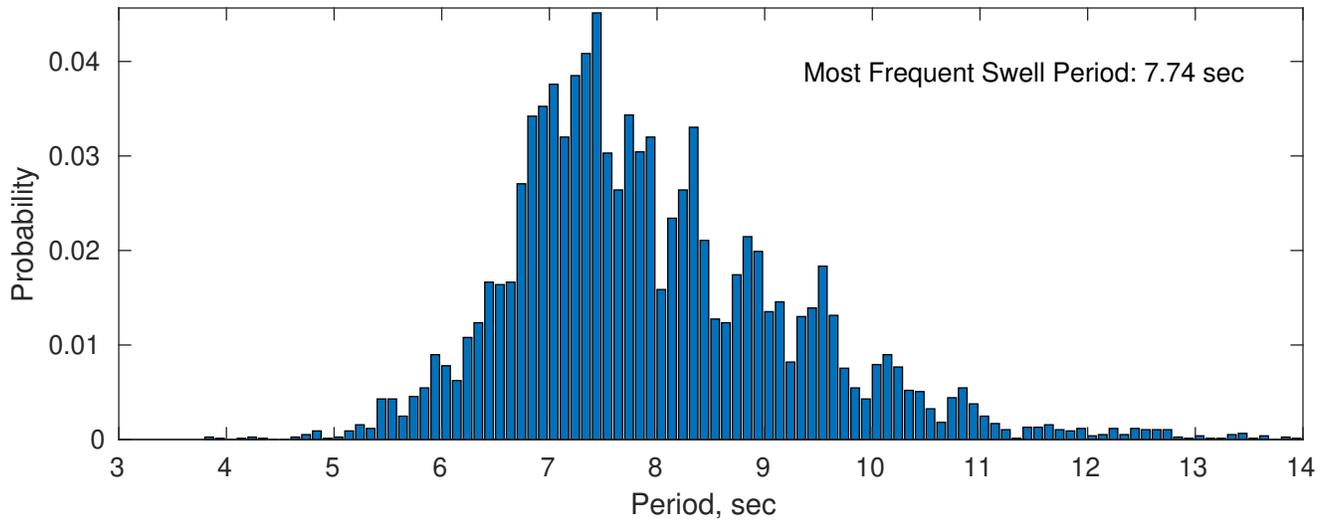
December Peak Wave Period PDF: 1979 - 2015



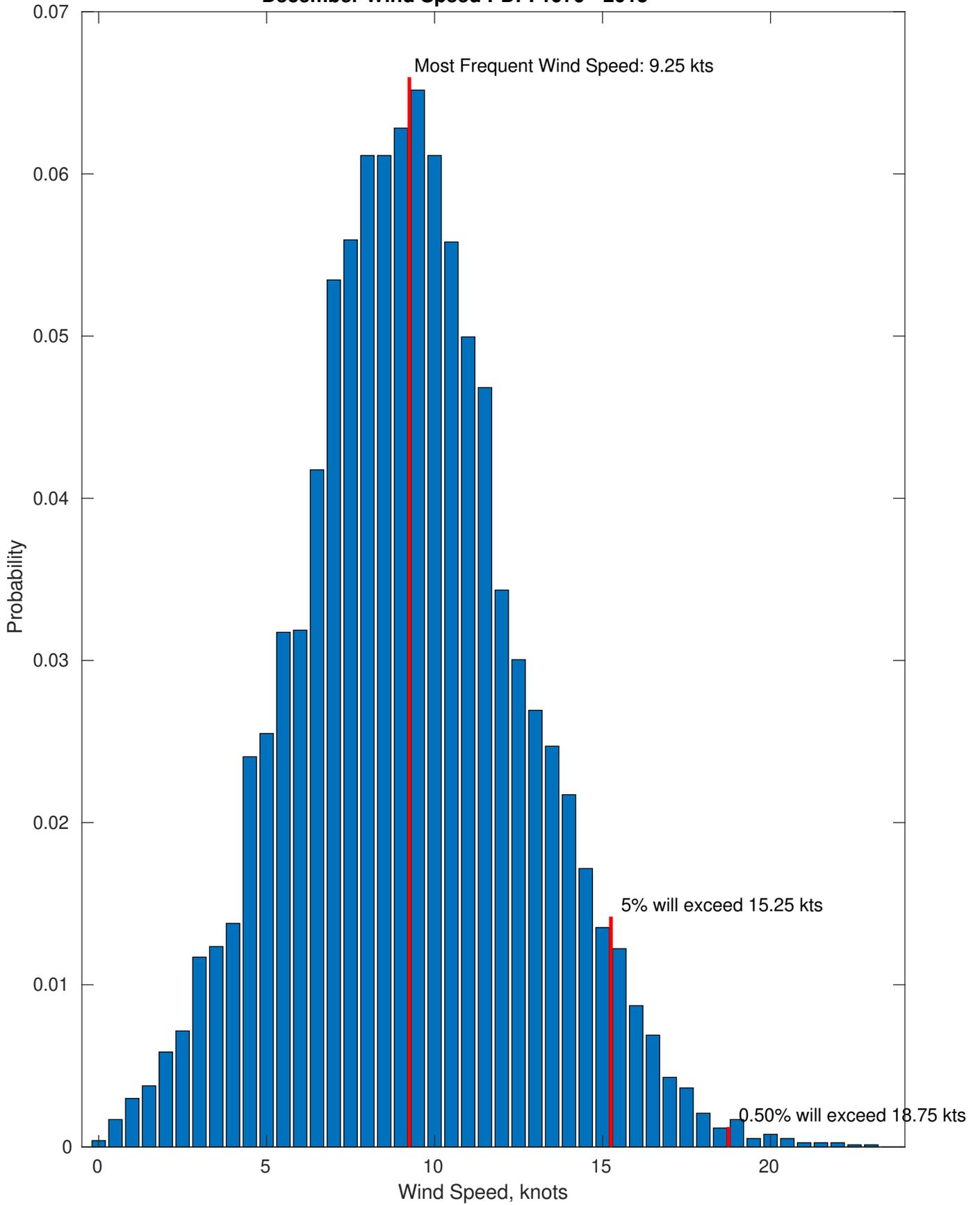
Wind-Sea: 3.49%



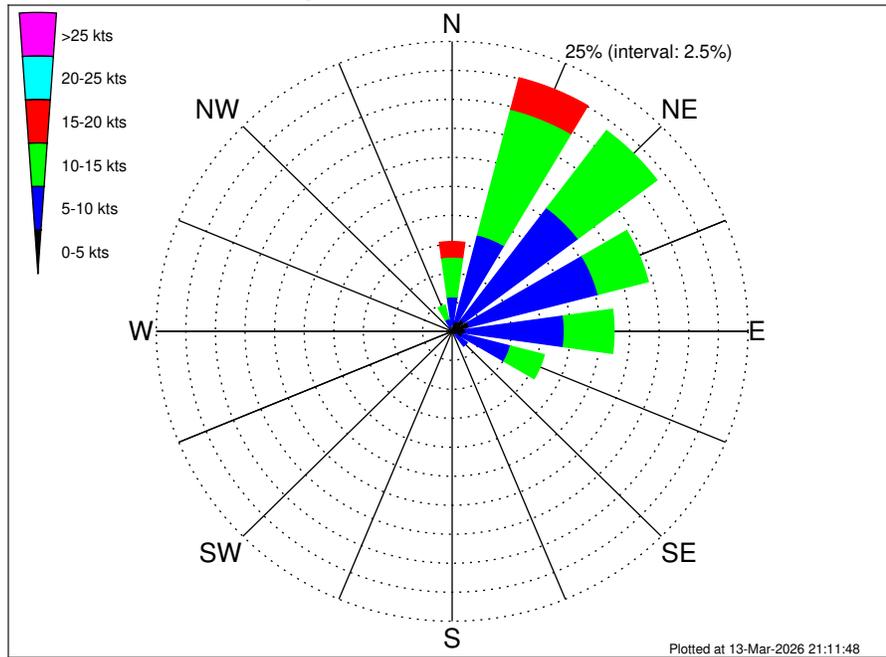
Swell: 96.51%



December Wind Speed PDF: 1979 - 2015



Tanzania 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	•	0.07	0.01	0.04	0.01	•	•	0.01	0.04	•	•	0.01	•	•	•	0.01	0.21
0 - 5 kts	0.59	0.82	1.24	1.47	1.12	0.90	0.43	0.35	0.12	0.21	0.14	0.07	0.09	0.12	0.14	0.38	8.17
5 - 10 kts	2.39	7.71	12.07	11.24	8.35	4.19	1.17	0.36	0.14	0.12	0.01	0.12	0.07	0.16	0.21	0.74	49.05
10 - 15 kts	3.43	11.19	8.35	4.37	4.20	2.95	0.43	0.17	0.08	0.04	0.01	0.01	0.01	0.04	0.38	1.20	36.86
15 - 20 kts	1.33	2.80	0.57	0.05	0.03	0.14	0.08	0.01	0.01	•	•	•	•	0.01	0.13	0.31	5.48
20 - 25 kts	0.12	0.07	0.01	•	•	•	•	0.01	•	•	•	•	•	•	•	0.03	0.23
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	7.86	22.65	22.26	17.17	13.71	8.18	2.11	0.92	0.39	0.36	0.17	0.21	0.17	0.33	0.86	2.67	100.00