

Kenya MBES - December

Latitude: 3.25 S Longitude: 41.81 E

Weather Days

Wave Height > 5.0 ft Mean: 8.4 days Range: 4.1 - 12.8 days p50:8.5 days p75:5.5 days p90:4 days

Wave Height > 6.5 ft Mean: 2.1 days Range: 0.0 - 4.4 days p50:4.5 days p75:2 days p90:1.5 days

Wave Height > 8.0 ft Mean: 0.4 days Range: 0.0 - 1.2 days p50:30 days p75:4 days p90:1 days

Wind Speed > 15.0 knots Mean: 5.1 days Range: 1.7 - 8.5 days p50:4.5 days p75:3 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 0.5 days Range: 0.0 - 1.2 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 2.5 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 1.8 times per month

Wave Height < 6.5 ft
A 1 day or longer window will statistically occur 1.4 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 1.2 times per month

Wave Height < 8.0 ft
A 1 day or longer window will statistically occur 1.1 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 1.0 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 18 - 20 sec, but rarely longer.

Principle Direction, from: NE

WindSea/Swell: 11% / 89%

Winds

Mean Speed: 10 - 15 kts

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

Principle Direction, from: ENE

Currents

Mean Speed: 0.50-0.75 kts

The currents will occasionally reach 2.25-2.50 kts, but rarely greater.

Principle Direction, to: NE

Weather Days

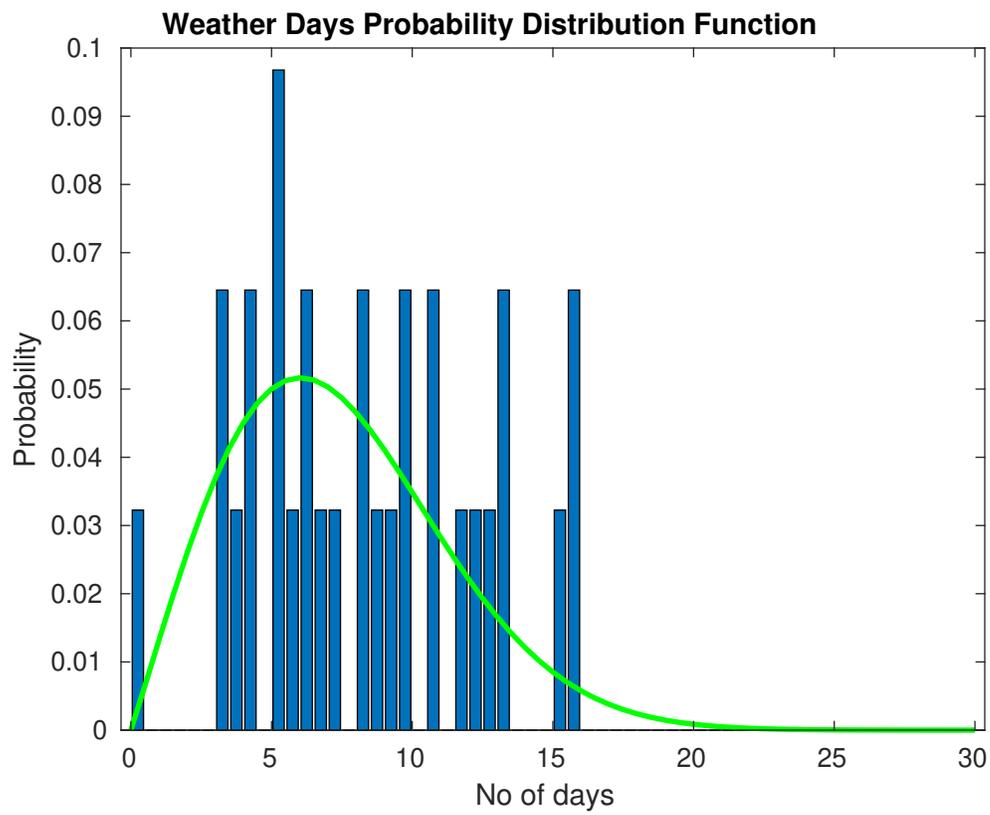
Current Speed > 0.5 knots Mean: 23.5 days Range: 17.8 - 29.2 days p50:26 days p75:18 days p90:17 days

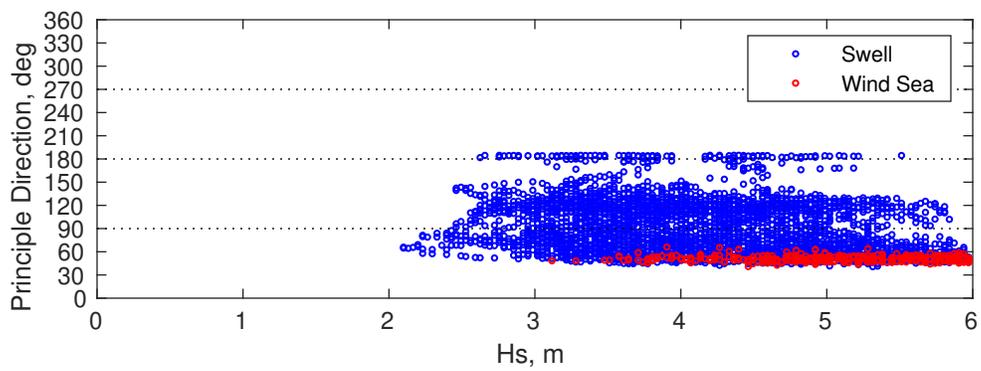
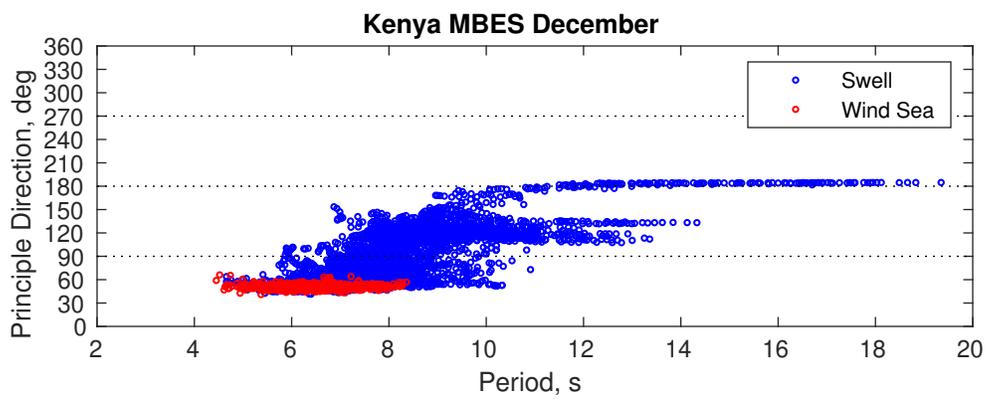
Current Speed > 1.0 knots Mean: 10.8 days Range: 4.2 - 17.5 days p50:10 days p75:8 days p90:3 days

Current Speed > 1.5 knots Mean: 1.9 days Range: 0.0 - 4.5 days p50:2 days p75:1 days p90:1 days

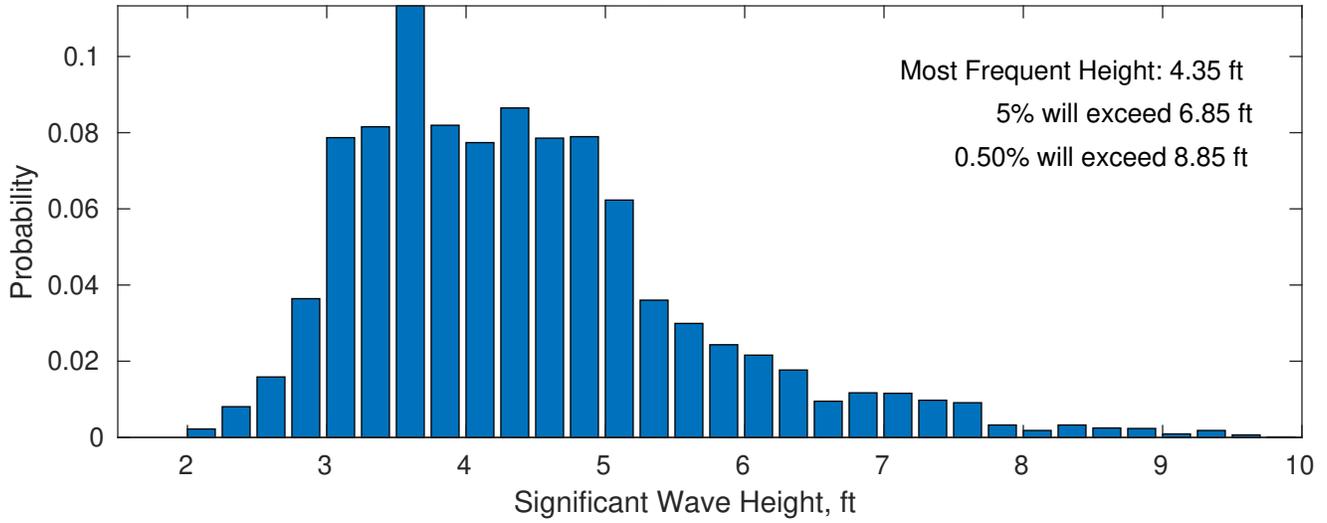
Severe Storms

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

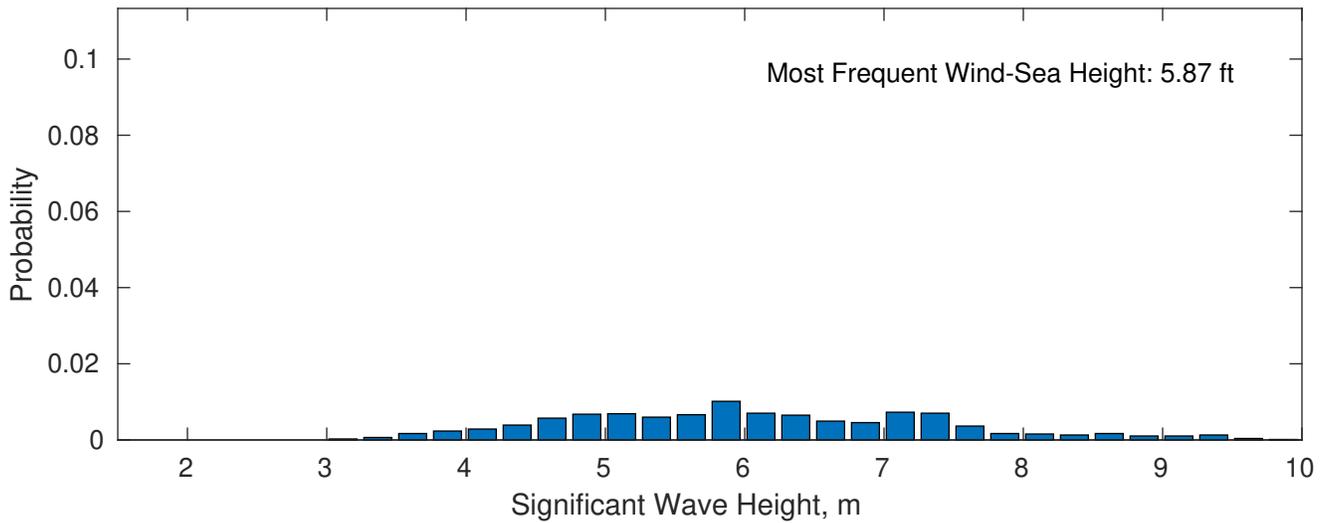




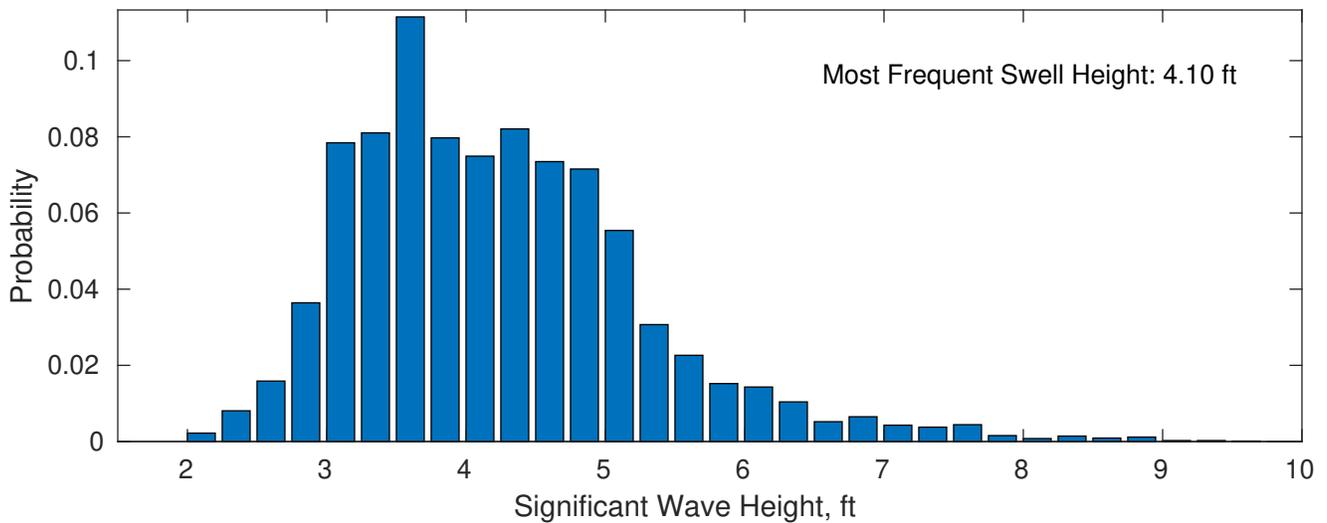
December Wave Height PDF: 1979 - 2015



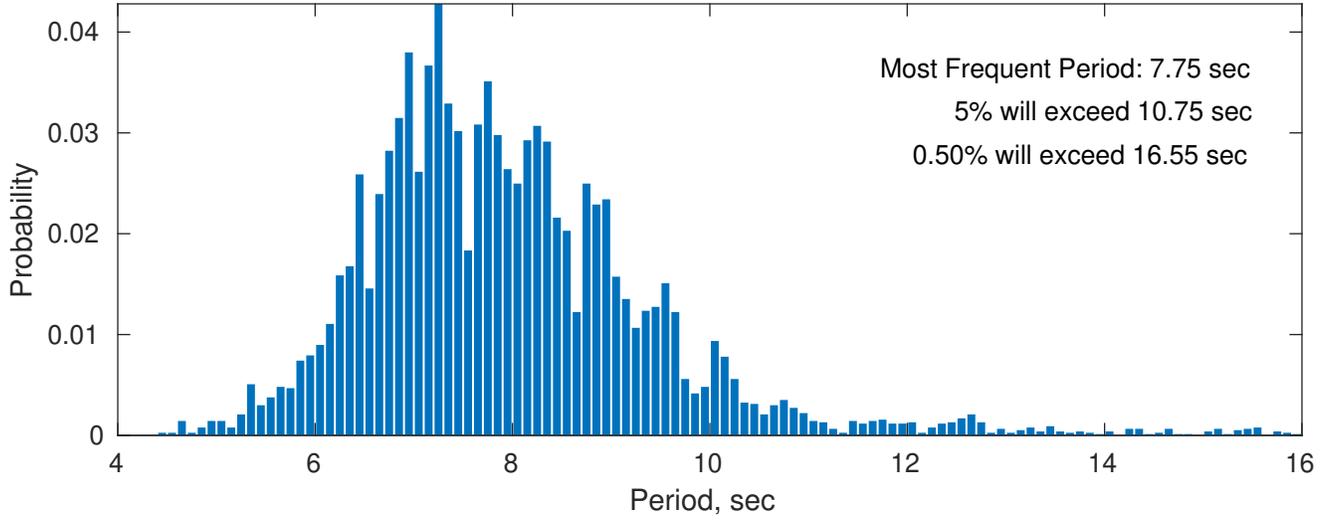
Wind-Sea: 10.54%



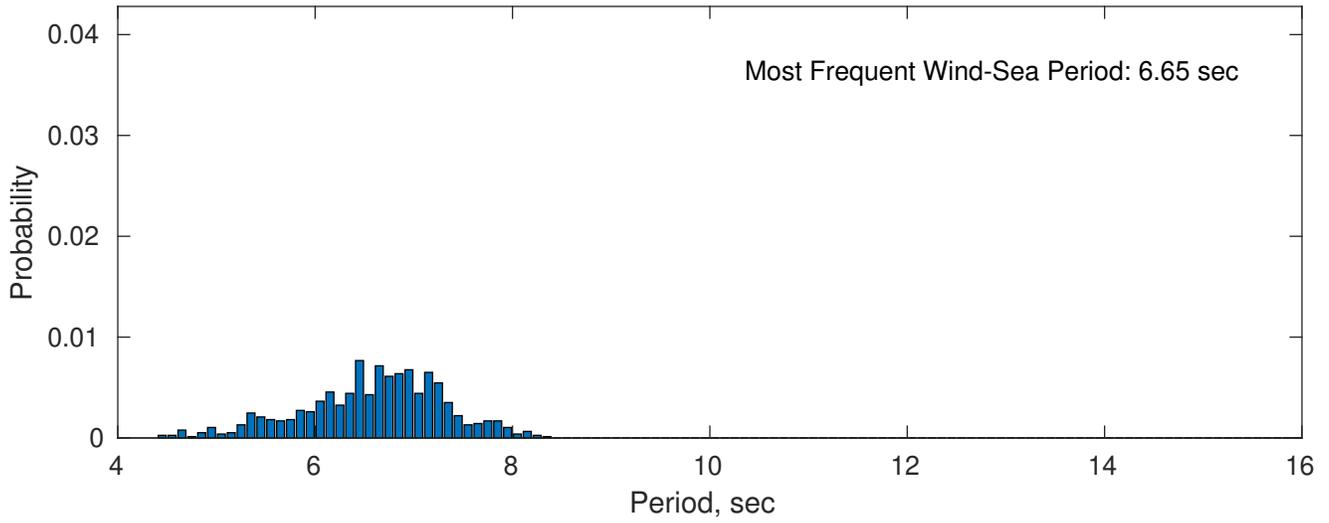
Swell: 89.46%



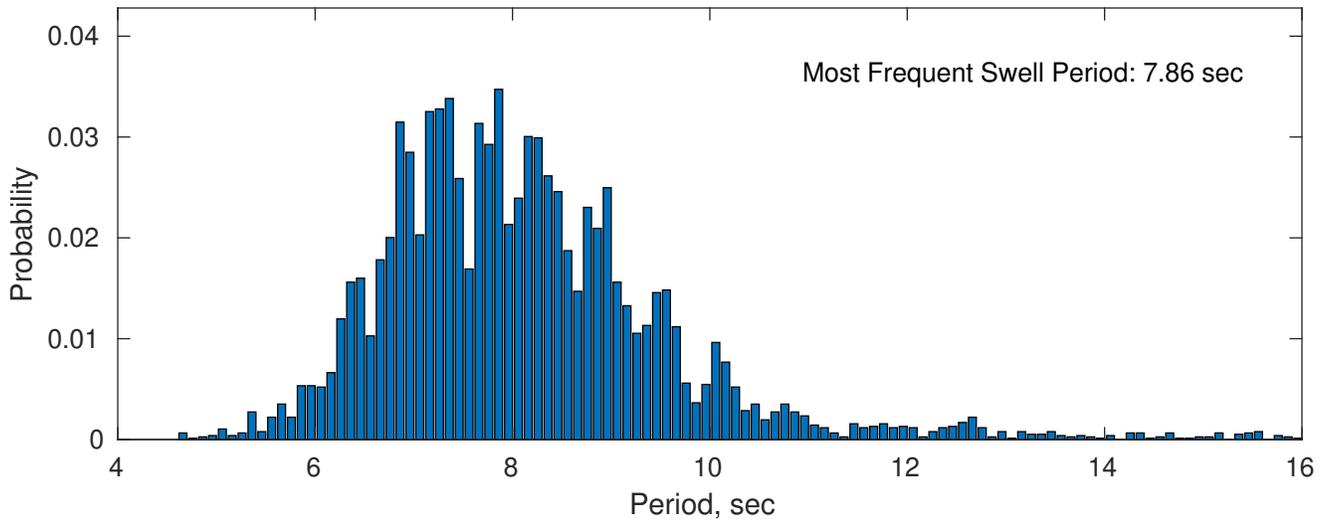
December Peak Wave Period PDF: 1979 - 2015



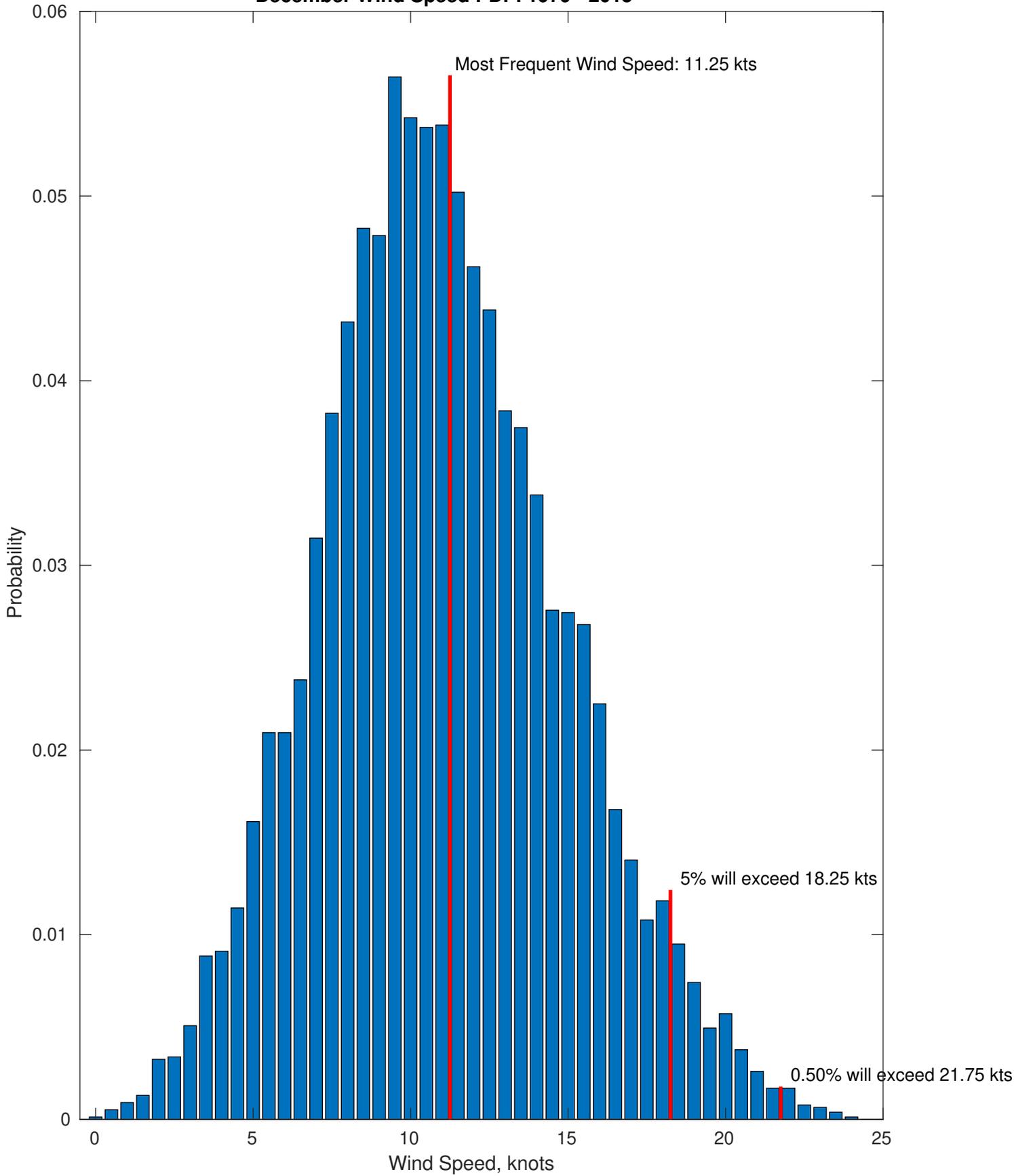
Wind-Sea: 10.54%



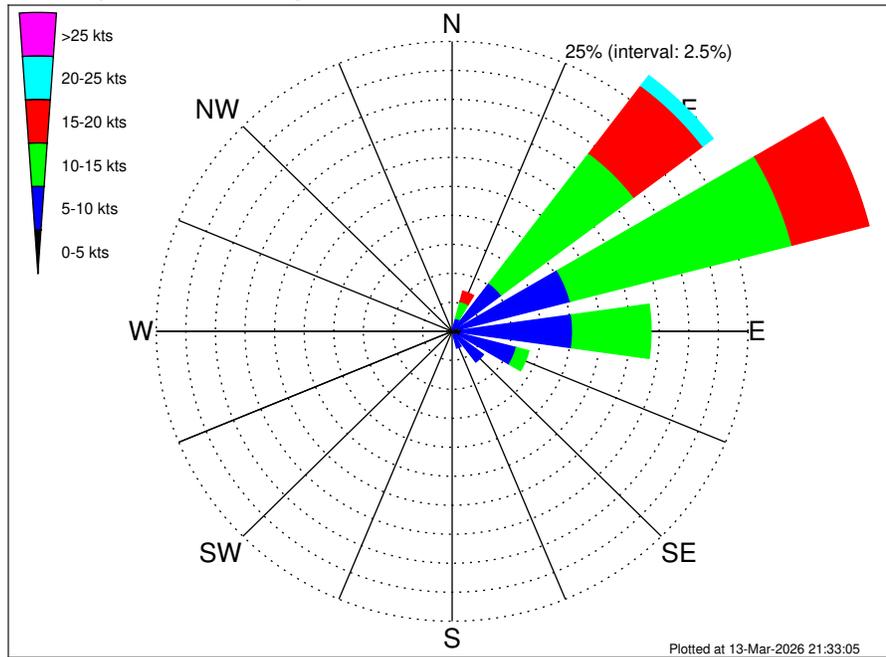
Swell: 89.46%



December Wind Speed PDF: 1979 - 2015



Kenya 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	•	0.01	•	•	0.01	•	•	0.01	0.07
0 - 5 kts	0.21	0.16	0.42	0.60	0.81	0.73	0.43	0.34	0.13	0.18	0.09	0.07	0.05	0.03	0.05	0.05	4.33
5 - 10 kts	0.12	1.01	4.79	9.70	9.38	4.88	2.89	1.14	0.47	0.21	0.04	•	•	0.01	•	0.09	34.73
10 - 15 kts	•	1.50	14.02	19.35	6.62	1.09	0.56	0.61	0.16	0.01	•	•	•	•	•	•	43.93
15 - 20 kts	•	0.91	7.30	6.71	0.29	•	•	•	•	•	•	•	•	•	•	•	15.21
20 - 25 kts	•	0.10	1.09	0.55	•	•	•	•	•	•	•	•	•	•	•	•	1.74
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.33	3.68	27.61	36.93	17.09	6.70	3.88	2.11	0.75	0.42	0.13	0.07	0.07	0.04	0.05	0.16	100.00