

Kenya MBES - January

Latitude: 3.25 S Longitude: 41.81 E

Weather Days

Wave Height > 5.0 ft Mean: 17.7 days Range: 12.1 - 23.2 days p50:18 days p75:14 days p90:10 days

Wave Height > 6.5 ft Mean: 6.8 days Range: 2.0 - 11.6 days p50:7 days p75:3 days p90:1 days

Wave Height > 8.0 ft Mean: 1.9 days Range: 0.0 - 4.2 days p50:6 days p75:2 days p90:1.5 days

Wind Speed > 15.0 knots Mean: 11.9 days Range: 7.6 - 16.2 days p50:13 days p75:9.5 days p90:6.5 days

Wind Speed > 20.0 knots Mean: 1.1 days Range: 0.0 - 2.4 days p50:1 days p75:0.5 days p90:0.5 days

Wind Speed > 25.0 knots Mean: 0.0 days Range: 0.0 - 0.1 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 2.4 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 1.4 times per month

Wave Height < 6.5 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 1.9 times per month

Wave Height < 8.0 ft
A 1 day or longer window will statistically occur 1.7 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

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 10 - 12 sec, but rarely longer.

Principle Direction, from: NE

WindSea/Swell: 19% / 81%

Winds

Mean Speed: 10 - 15 kts

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

Principle Direction, from: ENE

Currents

Mean Speed: 1.00-1.25 kts

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

Principle Direction, to: E

Weather Days

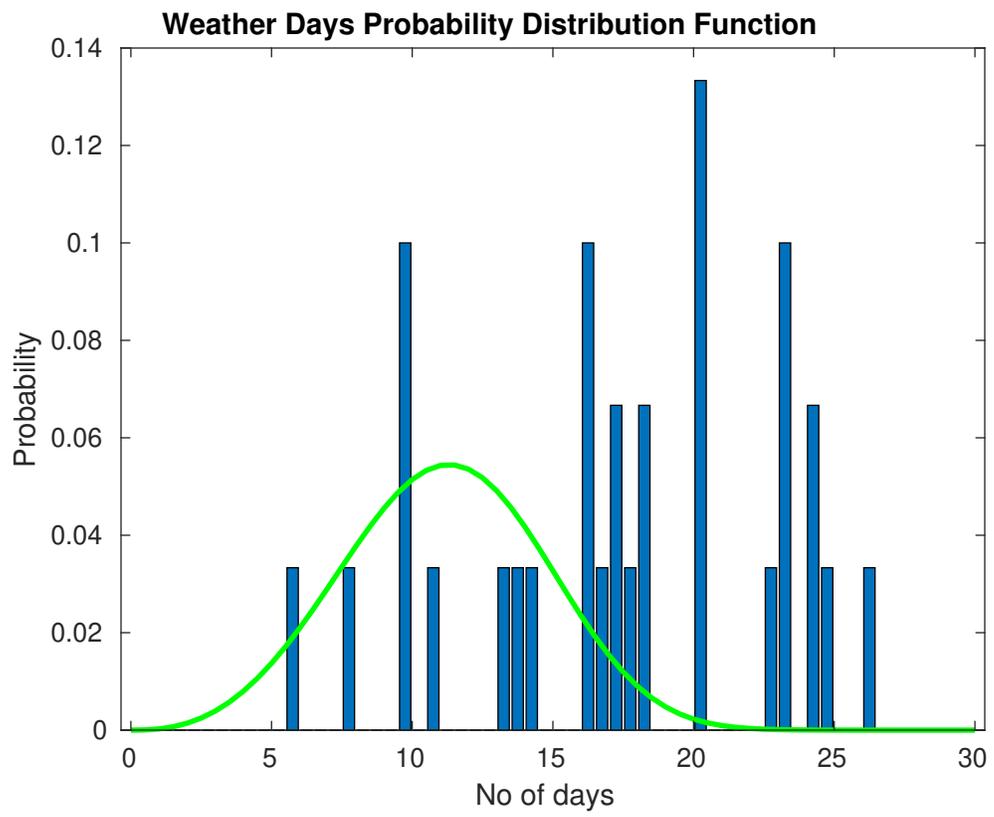
Current Speed > 0.5 knots Mean: 27.6 days Range: 23.3 - 30.0 days p50:29 days p75:28 days p90:23 days

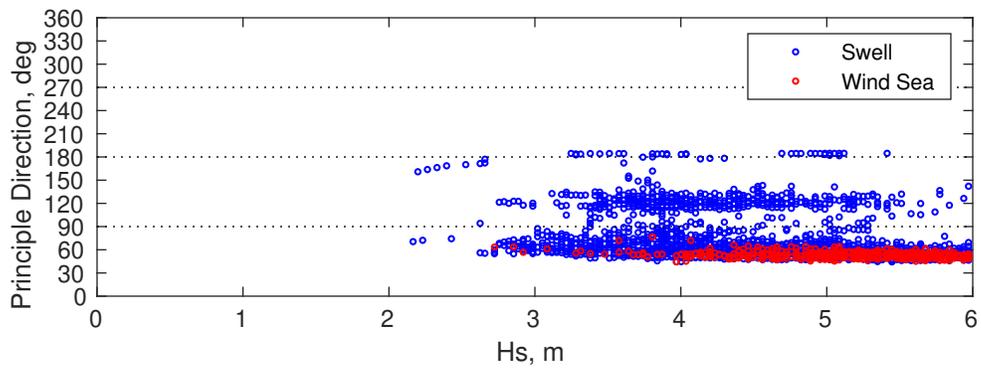
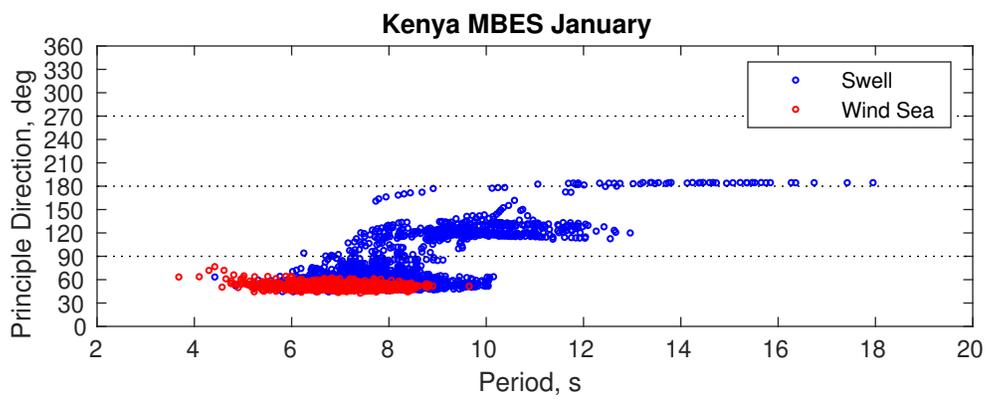
Current Speed > 1.0 knots Mean: 18.5 days Range: 11.8 - 25.2 days p50:20 days p75:16 days p90:7 days

Current Speed > 1.5 knots Mean: 7.8 days Range: 2.4 - 13.1 days p50:7 days p75:4 days p90:3 days

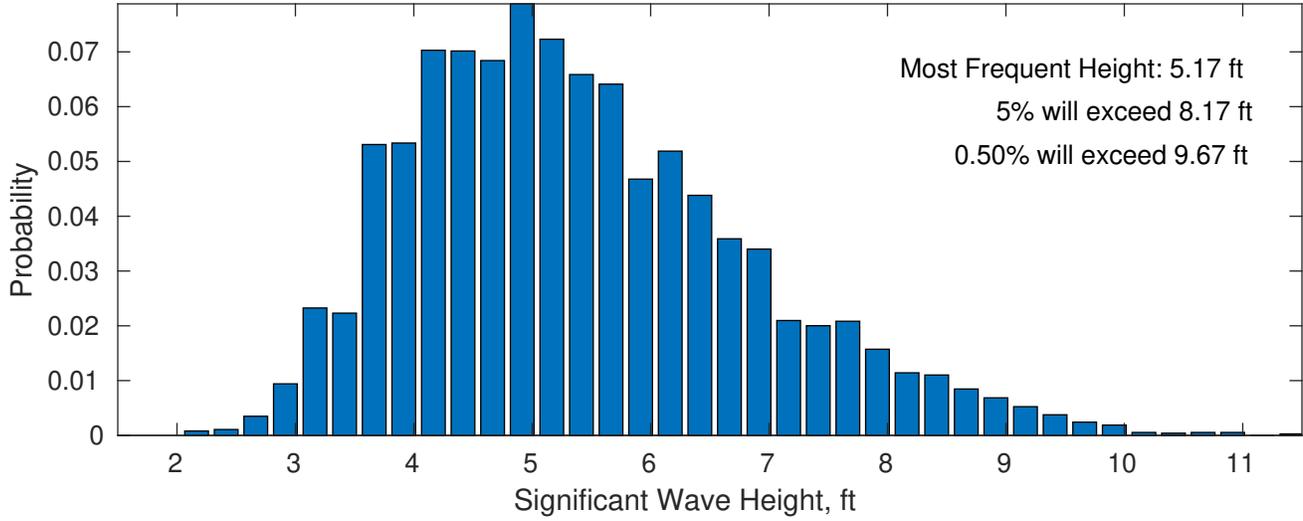
Severe Storms

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

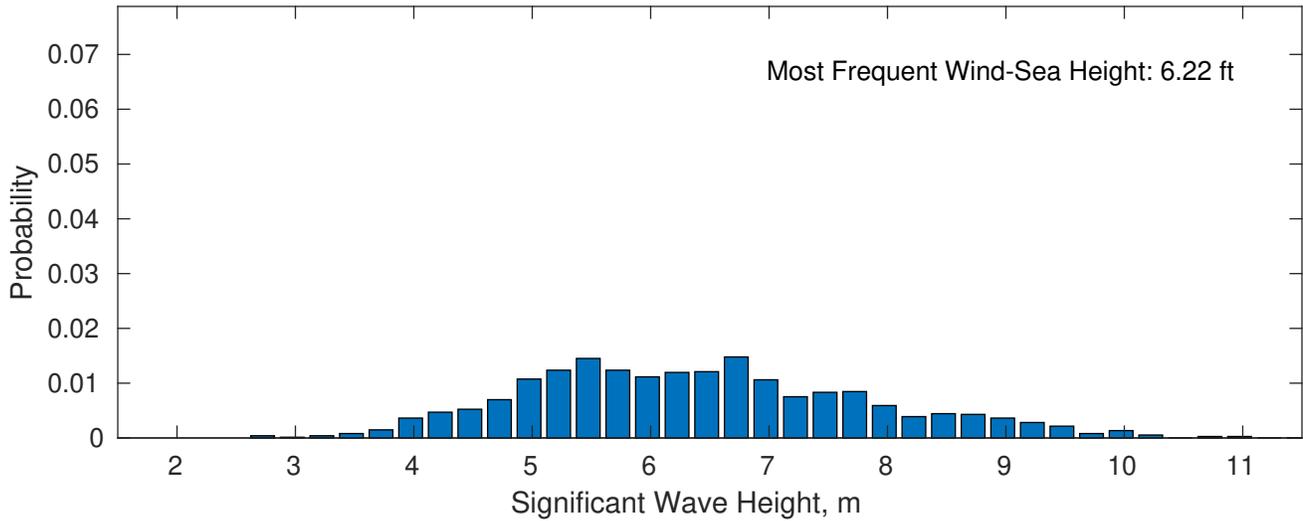




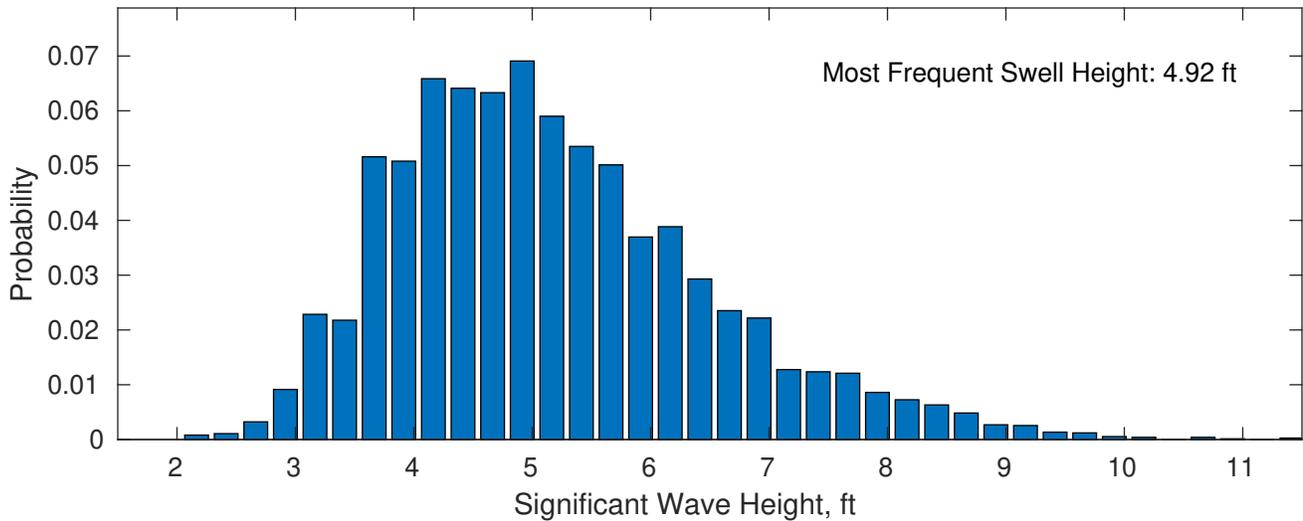
January Wave Height PDF: 1979 - 2015



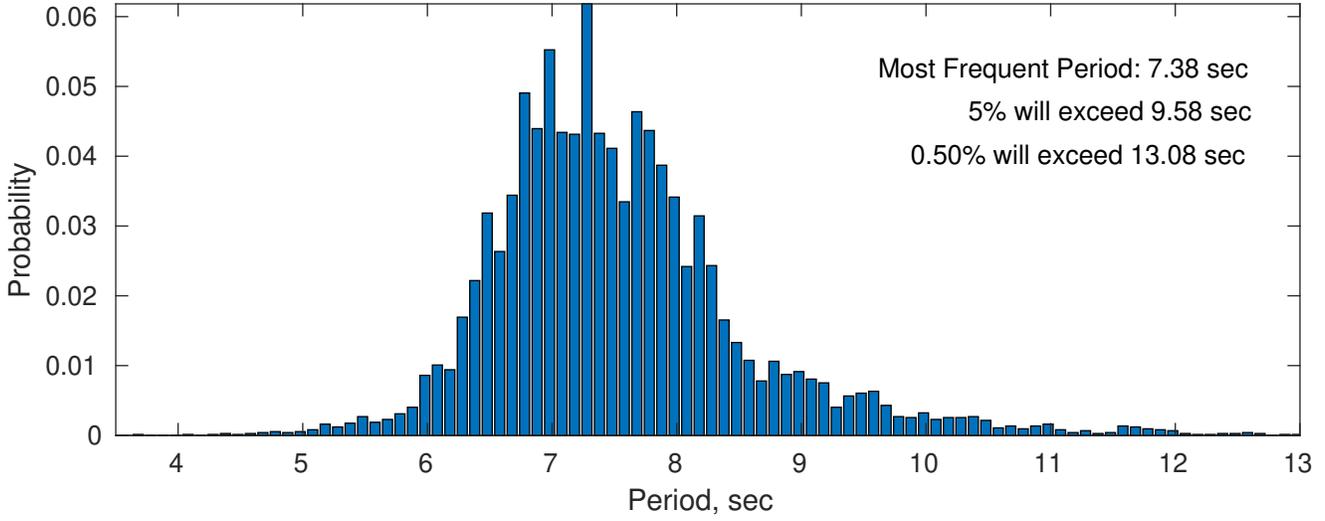
Wind-Sea: 18.91%



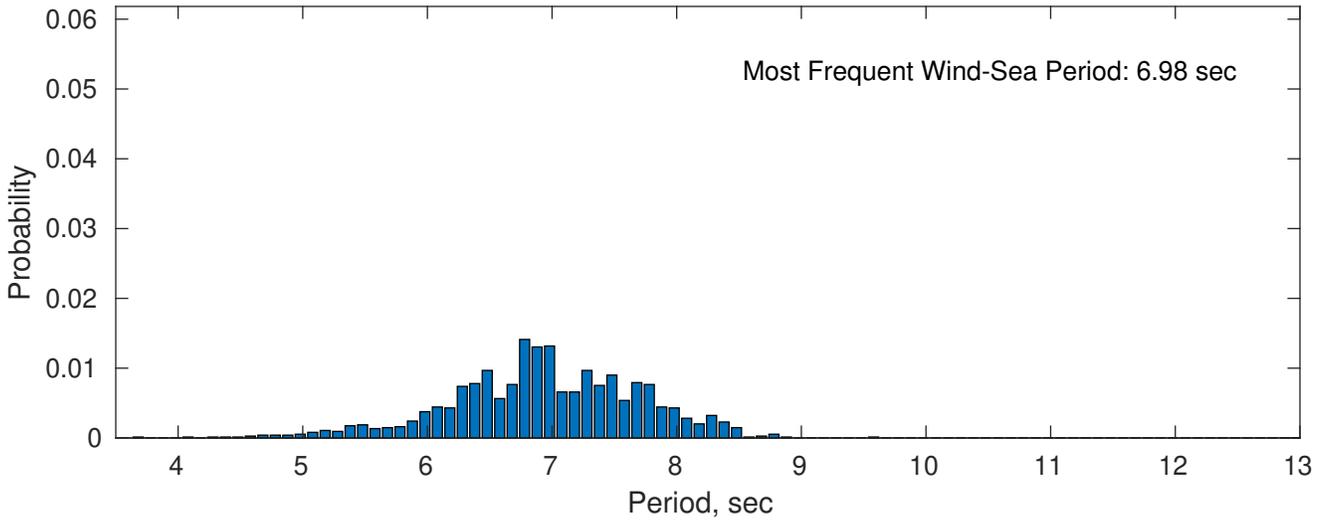
Swell: 81.09%



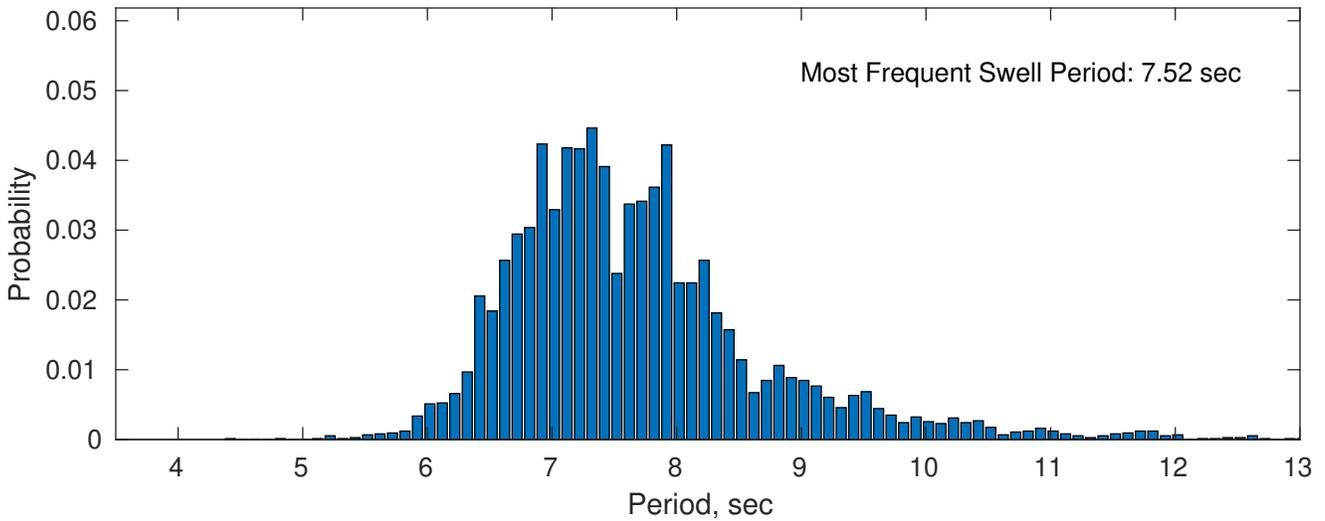
January Peak Wave Period PDF: 1979 - 2015



Wind-Sea: 18.91%

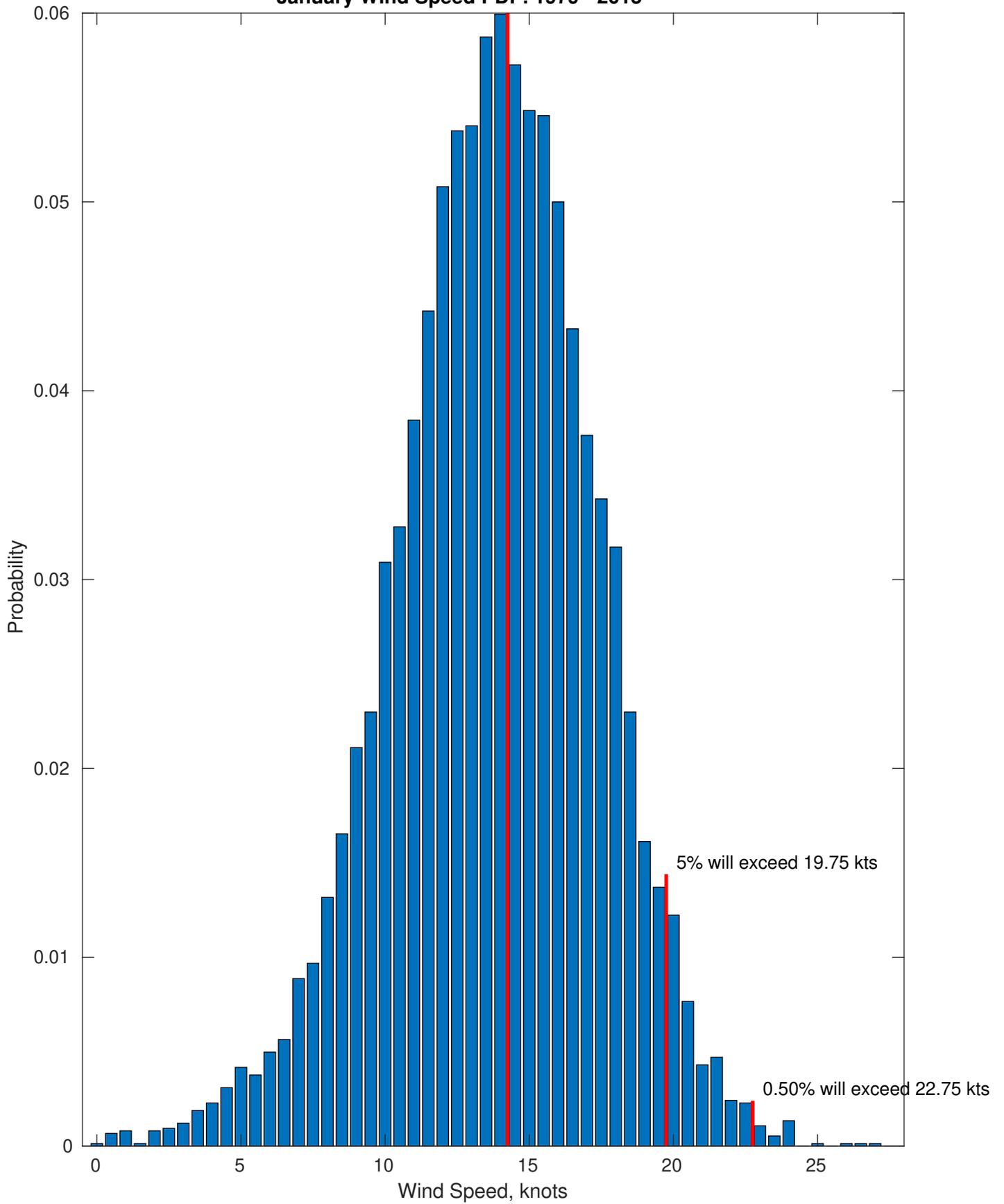


Swell: 81.09%

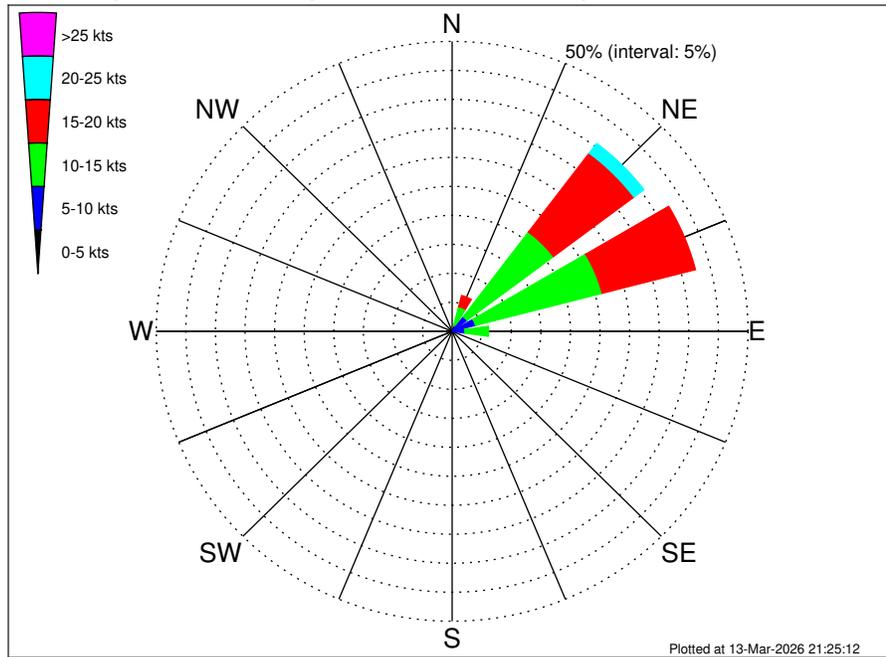


Most Frequent Wind Speed: 14.25 kts

January Wind Speed PDF: 1979 - 2015



Kenya 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	•	•	0.03	•	0.01	0.01	•	•	•	0.01	0.01	•	•	•	•	•	0.08
0 - 5 kts	0.09	0.15	0.15	0.13	0.22	0.09	0.08	0.04	•	0.01	0.01	0.03	0.05	0.03	0.01	0.01	1.12
5 - 10 kts	0.17	0.98	2.97	3.95	1.94	0.65	0.23	0.08	•	•	•	•	•	0.01	0.03	0.08	11.09
10 - 15 kts	0.07	3.29	18.29	22.11	3.99	0.20	0.03	•	•	•	•	•	•	•	0.03	0.08	48.09
15 - 20 kts	0.04	1.95	17.06	16.28	0.54	•	•	•	•	•	•	•	•	•	0.01	0.04	35.91
20 - 25 kts	•	0.48	2.08	1.09	•	•	•	•	•	•	•	•	•	•	•	•	3.66
25 - 30 kts	•	0.04	0.01	•	•	•	•	•	•	•	•	•	•	•	•	•	0.05
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.38	6.90	40.59	43.56	6.69	0.95	0.34	0.12	•	0.03	0.03	0.03	0.05	0.04	0.08	0.22	100.00