

Kenya MBES - February

Latitude: 3.25 S Longitude: 41.81 E

Weather Days

Wave Height > 5.0 ft Mean: 14.3 days Range: 8.1 - 20.5 days p50:13.5 days p75:9.5 days p90:7 days

Wave Height > 6.5 ft Mean: 5.4 days Range: 0.9 - 9.8 days p50:4.5 days p75:3 days p90:0.5 days

Wave Height > 8.0 ft Mean: 1.5 days Range: 0.0 - 3.3 days p50:3.5 days p75:1 days p90:0.5 days

Wind Speed > 15.0 knots Mean: 9.4 days Range: 5.3 - 13.5 days p50:10 days p75:7 days p90:5 days

Wind Speed > 20.0 knots Mean: 0.9 days Range: 0.0 - 1.7 days p50:1 days p75:0.5 days p90:0.5 days

Wind Speed > 25.0 knots Mean: 0.0 days Range: 0.0 - 0.0 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 2.4 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 1.5 times per month

Wave Height < 6.5 ft
A 1 day or longer window will statistically occur 2.0 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 1.6 times per month

Wave Height < 8.0 ft
A 1 day or longer window will statistically occur 1.2 times per month
A 2 day or longer window will statistically occur 1.0 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 10 - 12 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: 18% / 82%

Winds

Mean Speed: 10 - 15 kts

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

Principle Direction, from: ENE

Currents

Mean Speed: 1.50-1.75 kts

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

Principle Direction, to: SSW

Weather Days

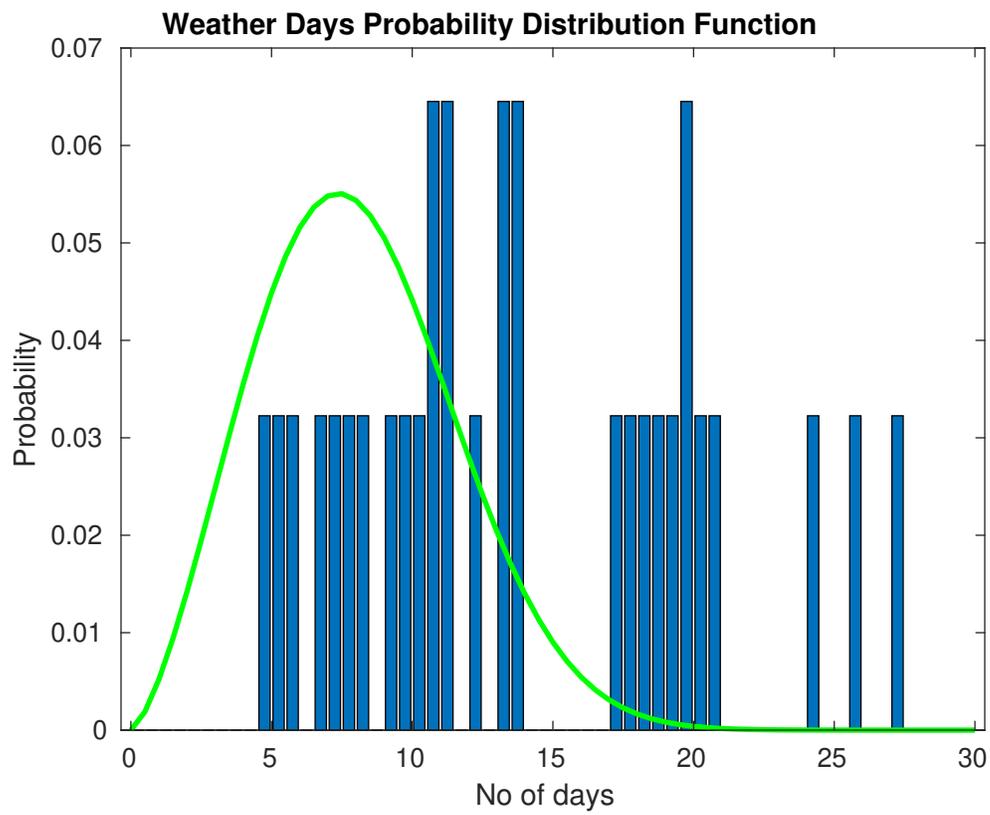
Current Speed > 0.5 knots Mean: 29.9 days Range: 29.5 - 30.0 days p50:31 days p75:31 days p90:29 days

Current Speed > 1.0 knots Mean: 26.4 days Range: 22.7 - 30.0 days p50:27 days p75:25 days p90:21 days

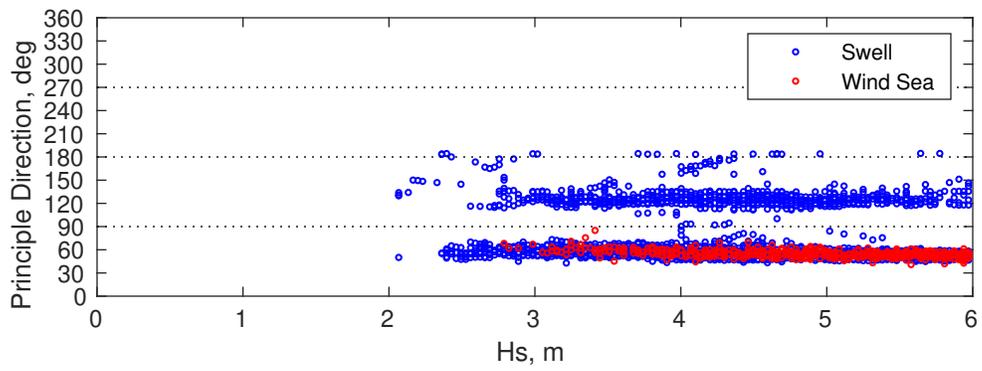
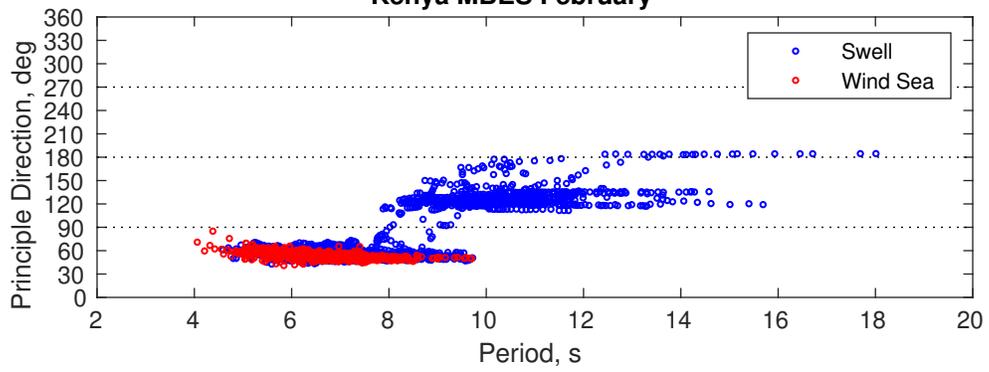
Current Speed > 1.5 knots Mean: 16.9 days Range: 8.2 - 25.6 days p50:19 days p75:10 days p90:6 days

Severe Storms

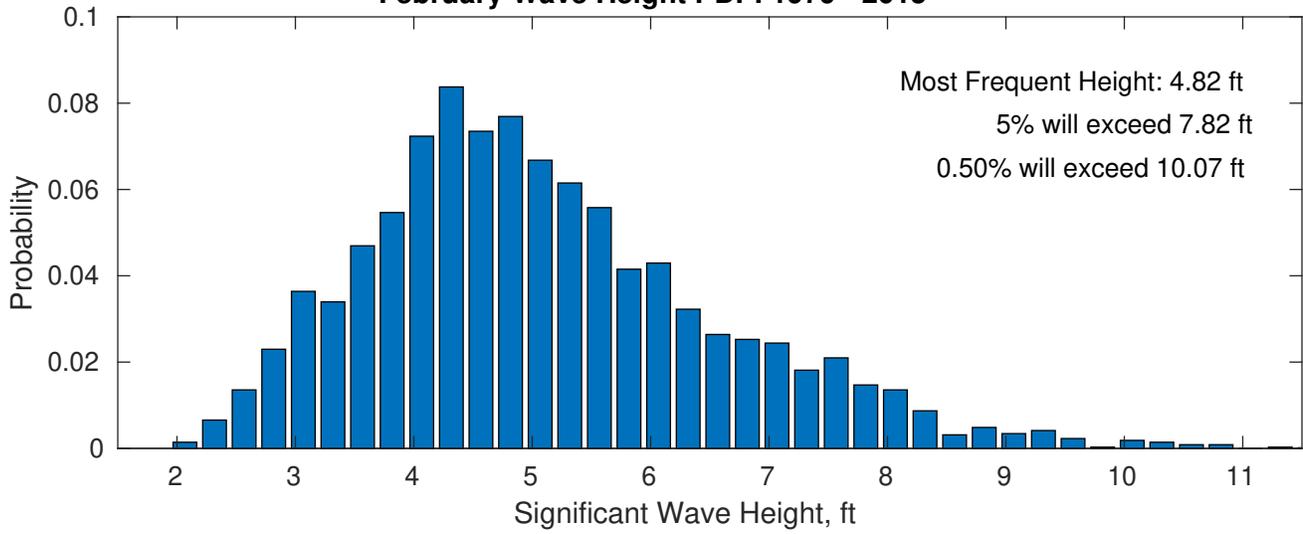
Severe storms with gale force winds and extreme waves are not expected during this month.



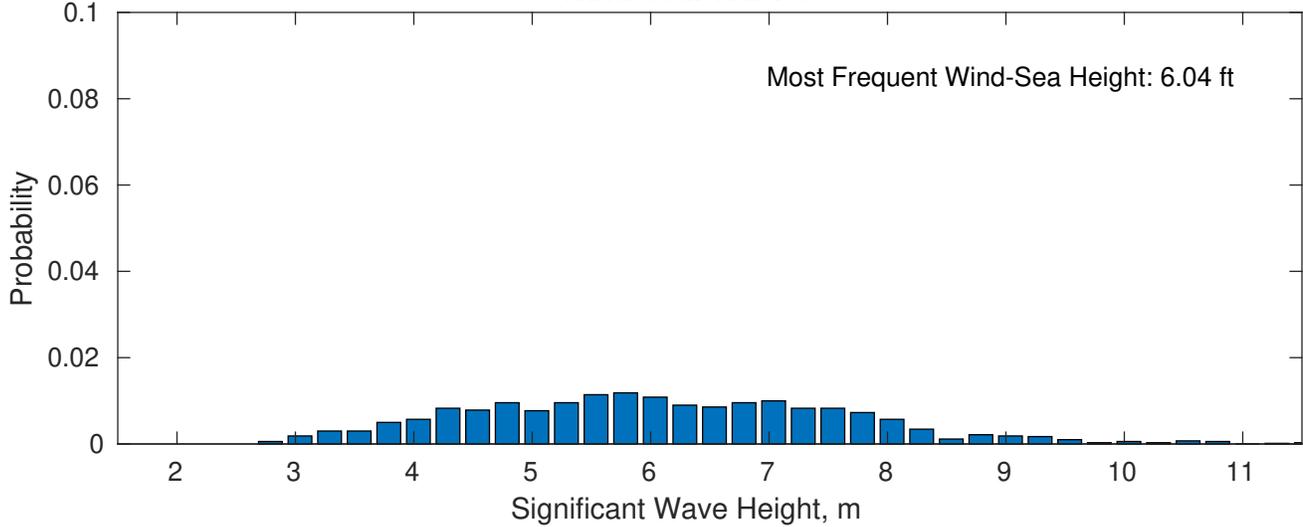
Kenya MBES February



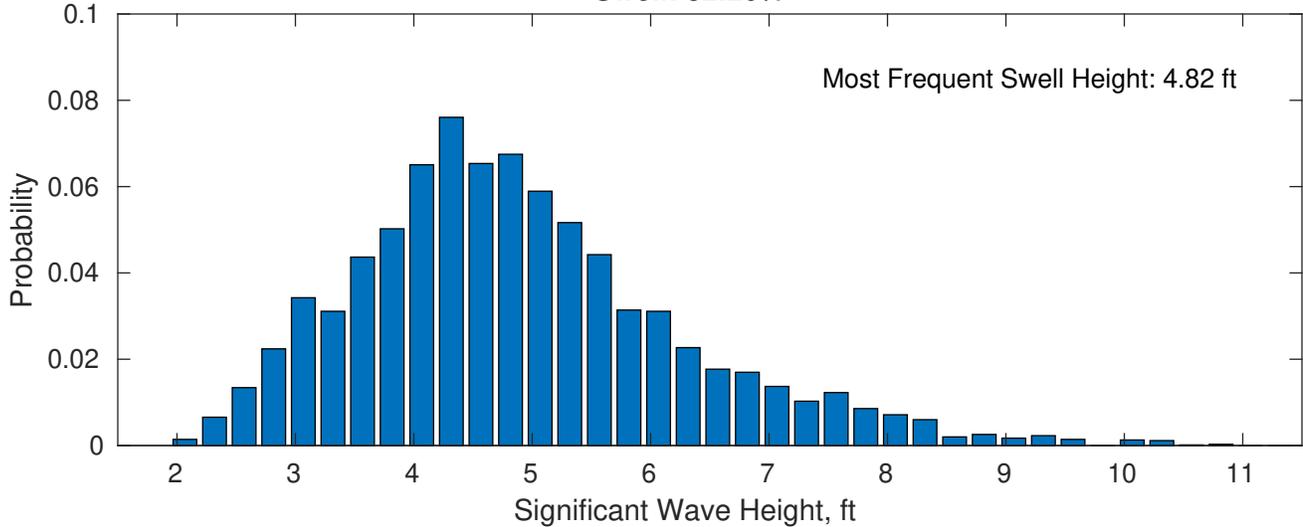
February Wave Height PDF: 1979 - 2015



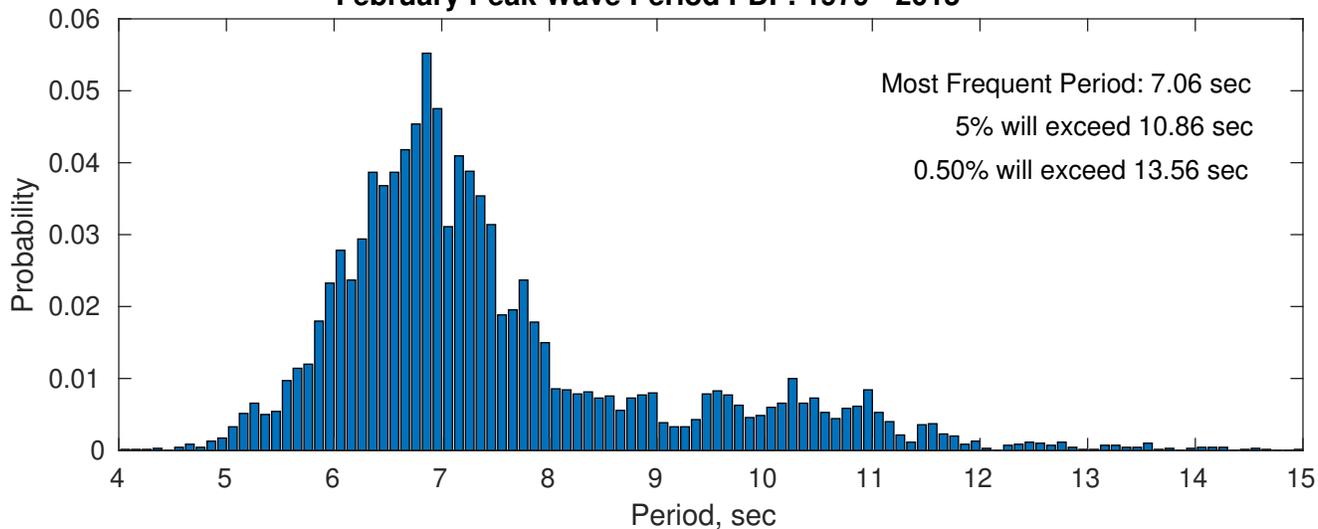
Wind-Sea: 17.74%



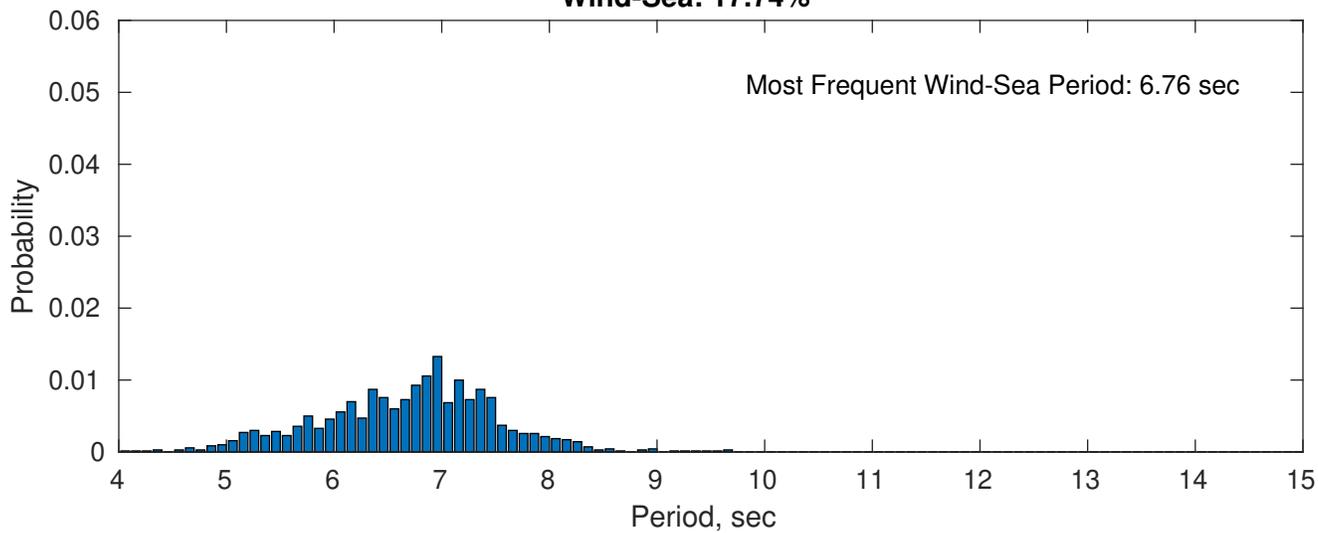
Swell: 82.26%



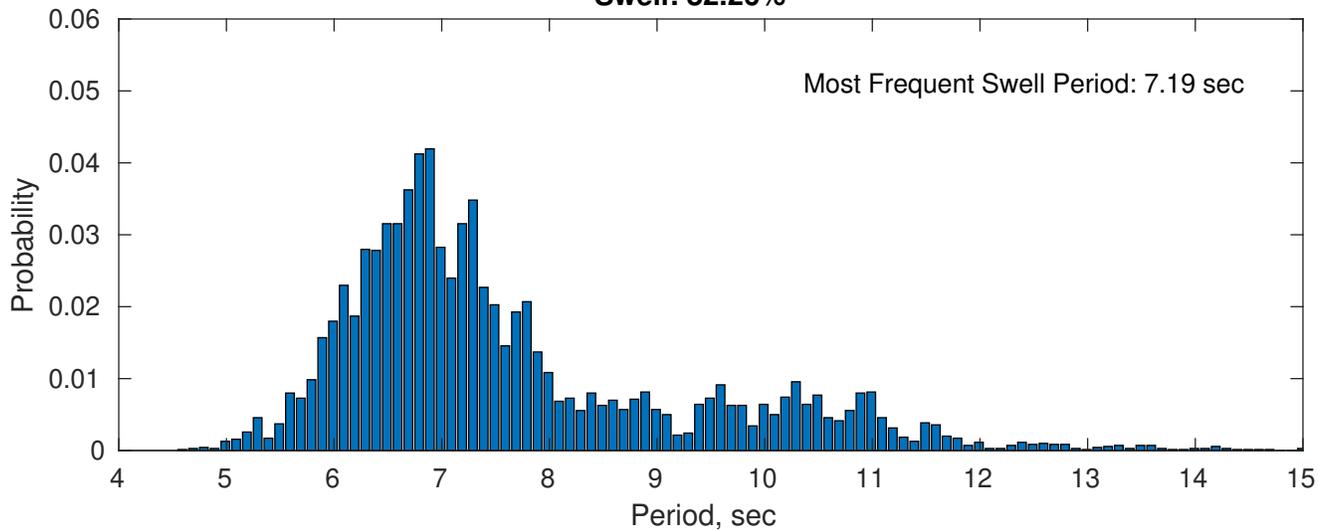
February Peak Wave Period PDF: 1979 - 2015



Wind-Sea: 17.74%

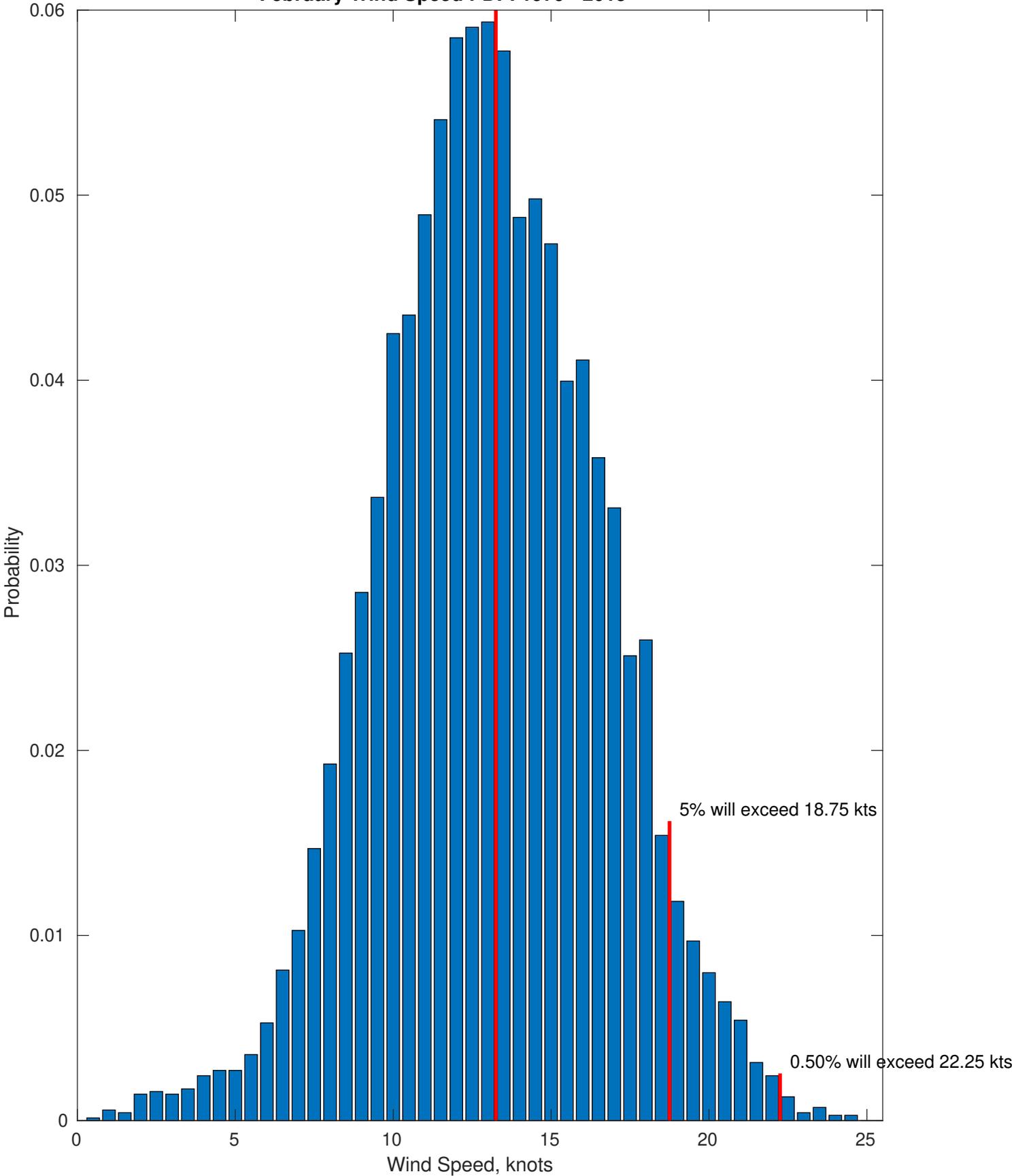


Swell: 82.26%

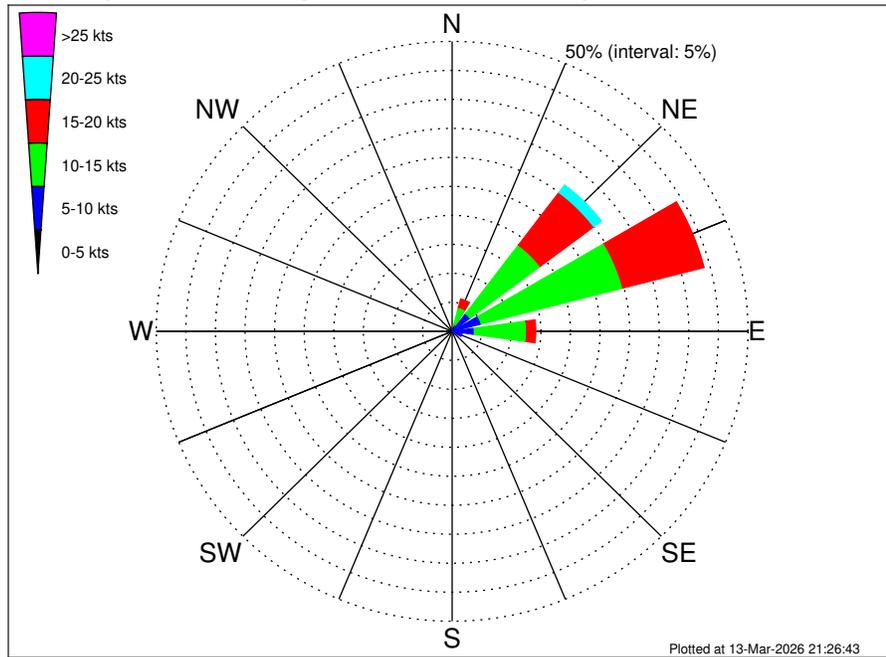


Most Frequent Wind Speed: 13.25 kts

February Wind Speed PDF: 1979 - 2015



Kenya MBES Climatological Wind Rose for February: 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 - 5 kts	0.03	0.10	0.13	0.33	0.20	0.24	0.06	0.04	0.01	0.01	•	•	0.01	•	0.03	0.03	1.23
5 - 10 kts	0.14	1.11	3.68	4.75	3.57	1.46	0.33	0.07	•	•	0.03	•	•	•	•	•	15.14
10 - 15 kts	0.03	3.08	14.83	24.73	8.83	0.56	0.16	•	•	0.01	0.01	•	•	•	•	•	52.24
15 - 20 kts	0.01	1.47	11.36	14.17	1.53	•	•	•	•	•	•	•	•	•	•	•	28.54
20 - 25 kts	•	0.23	1.60	1.01	•	•	•	•	•	•	•	•	•	•	•	•	2.84
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.21	5.99	31.59	44.99	14.13	2.25	0.54	0.11	0.01	0.03	0.04	•	0.01	•	0.03	0.04	100.00