

Kenya MBES - April

Latitude: 3.25 S Longitude: 41.81 E

Weather Days

Wave Height > 5.0 ft Mean: 4.0 days Range: 0.5 - 7.6 days p50:4.5 days p75:3 days p90:1.5 days

Wave Height > 6.5 ft Mean: 0.7 days Range: 0.0 - 1.9 days p50:30 days p75:2.5 days p90:1 days

Wave Height > 8.0 ft Mean: 0.1 days Range: 0.0 - 0.5 days p50:30 days p75:30 days p90:30 days

Wind Speed > 15.0 knots Mean: 0.8 days Range: 0.0 - 1.7 days p50:0.5 days p75:0.5 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 0.0 days Range: 0.0 - 0.0 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 2.0 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 1.6 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 1.1 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: 2 - 4 ft

The wave heights will occasionally reach 6 - 8 ft, but rarely higher.

Mean Period: 8 - 10 sec

The wave periods will occasionally reach 18 - 20 sec, but rarely longer.

Principle Direction, from: SE

WindSea/Swell: 1% / 99%

Winds

Mean Speed: 5 - 10 kts

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

Principle Direction, from: SSE

Currents

Mean Speed: 1.25-1.50 kts

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

Principle Direction, to: ENE

Weather Days

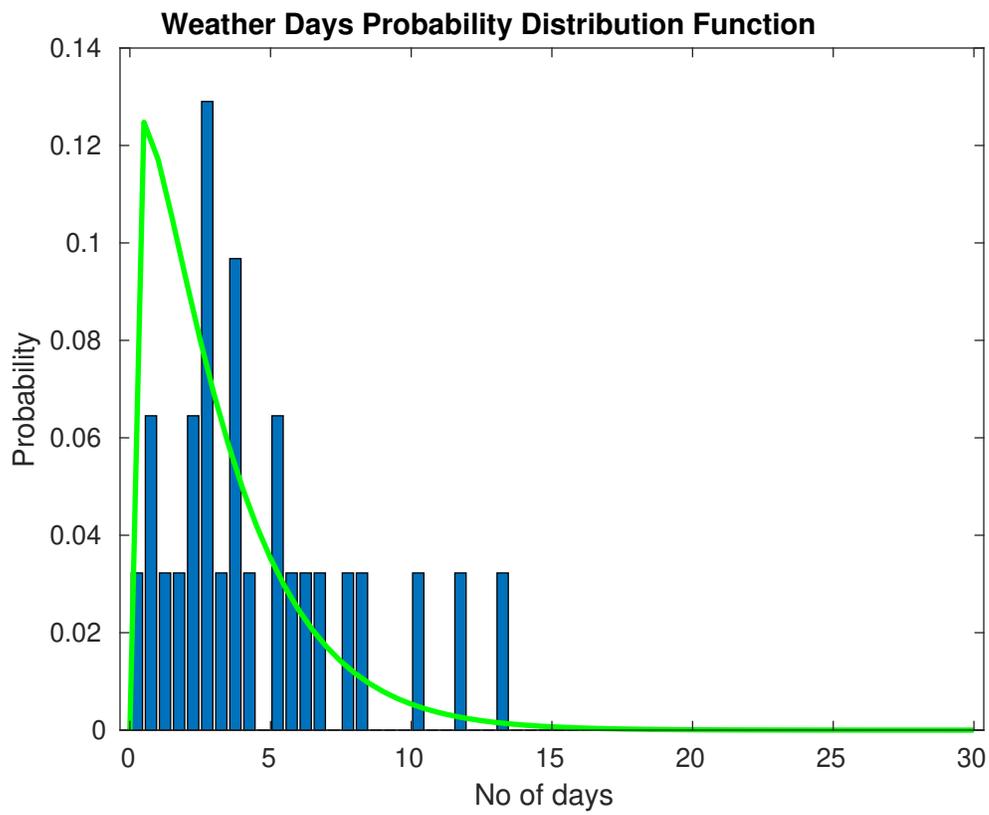
Current Speed > 0.5 knots Mean: 28.9 days Range: 26.8 - 30.0 days p50:31 days p75:29 days p90:25 days

Current Speed > 1.0 knots Mean: 21.5 days Range: 14.9 - 28.0 days p50:23 days p75:18 days p90:12 days

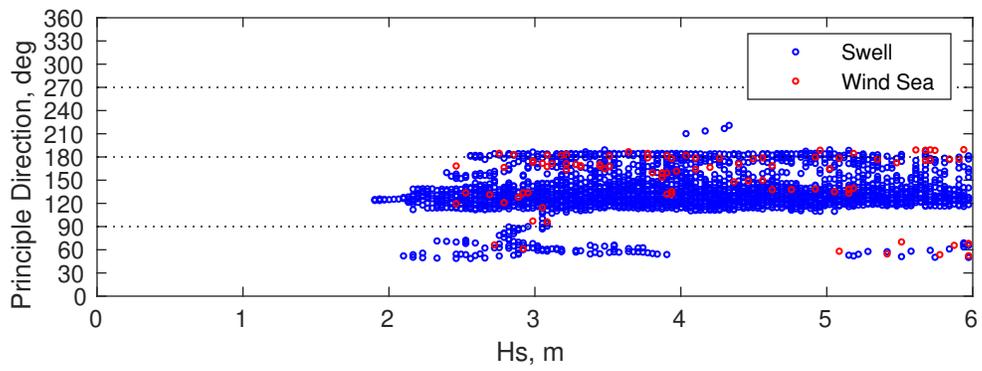
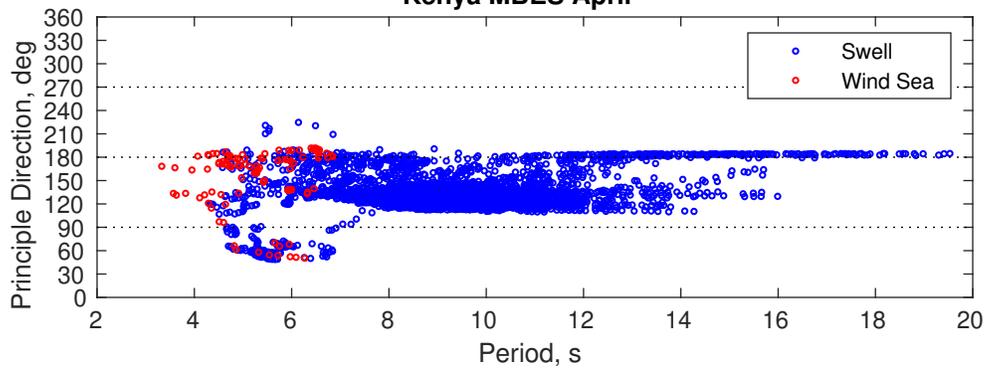
Current Speed > 1.5 knots Mean: 10.4 days Range: 3.5 - 17.4 days p50:8 days p75:5 days p90:3 days

Severe Storms

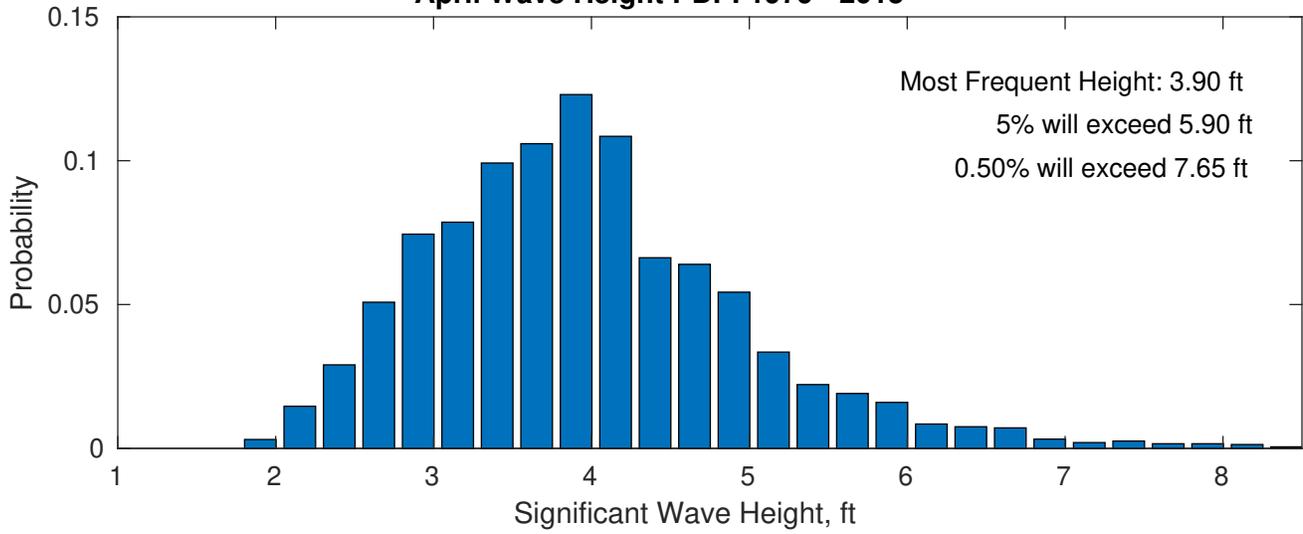
Severe storms with gale force winds and extreme waves are not expected during this month.



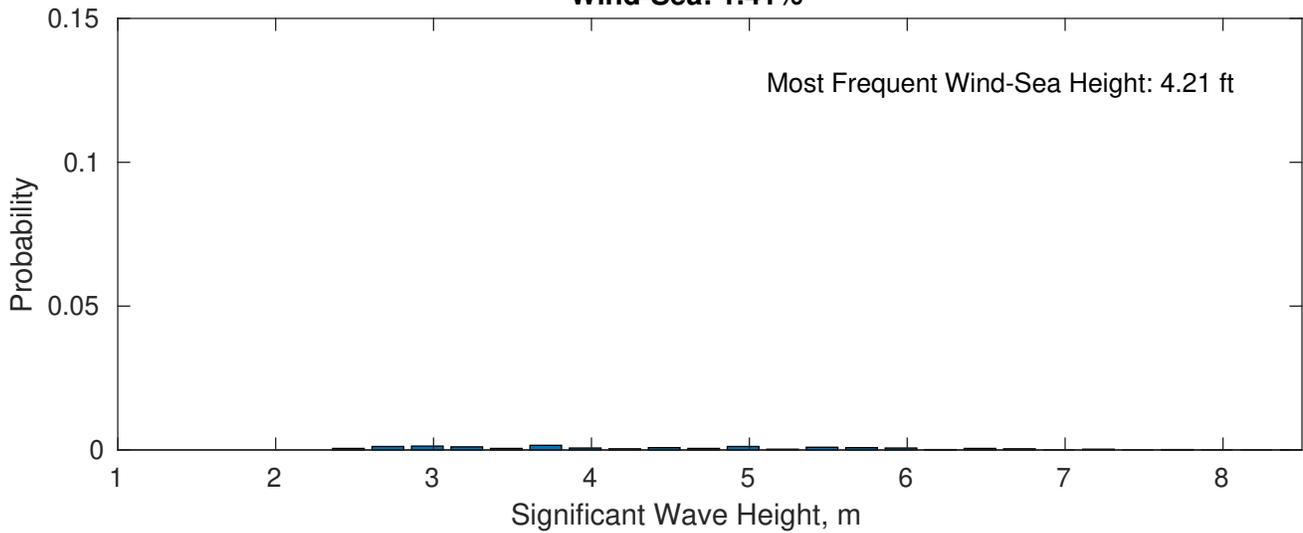
Kenya MBES April



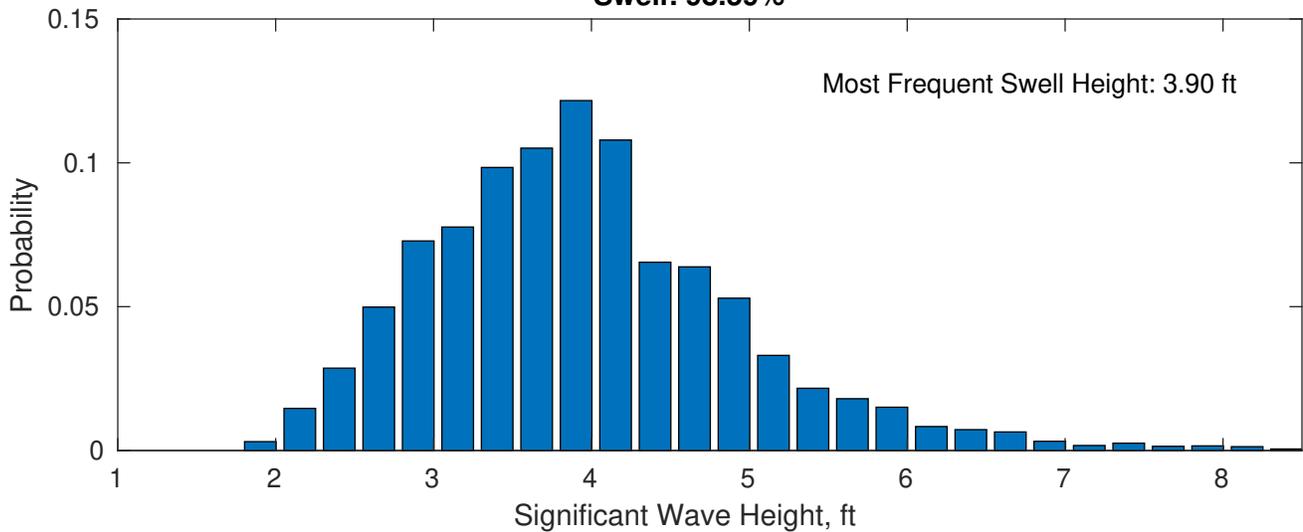
April Wave Height PDF: 1979 - 2015



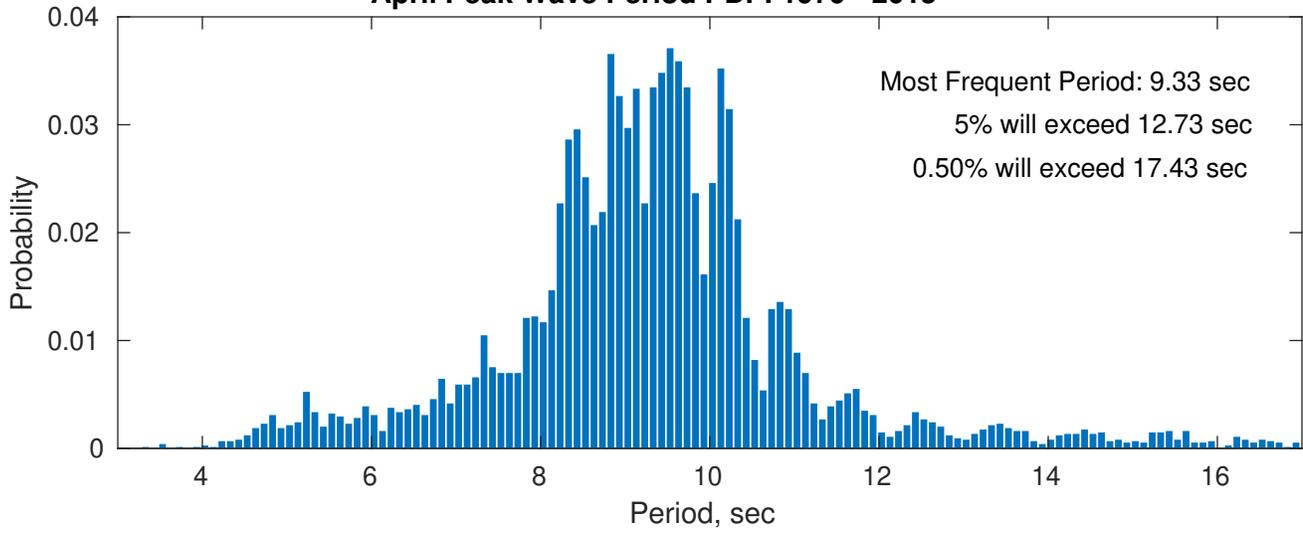
Wind-Sea: 1.41%



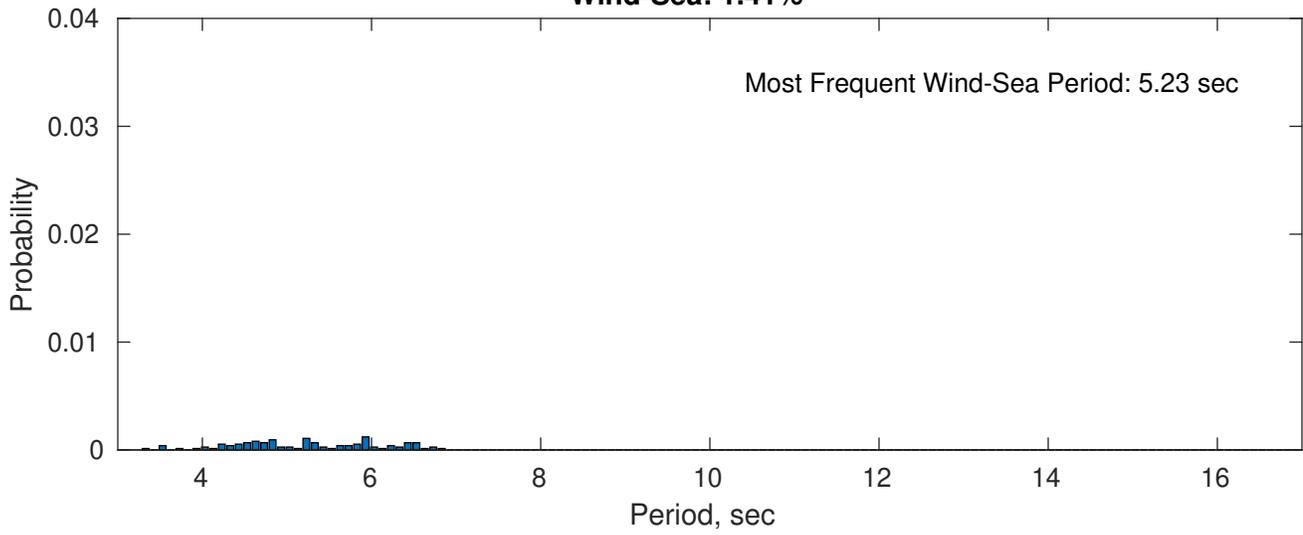
Swell: 98.59%



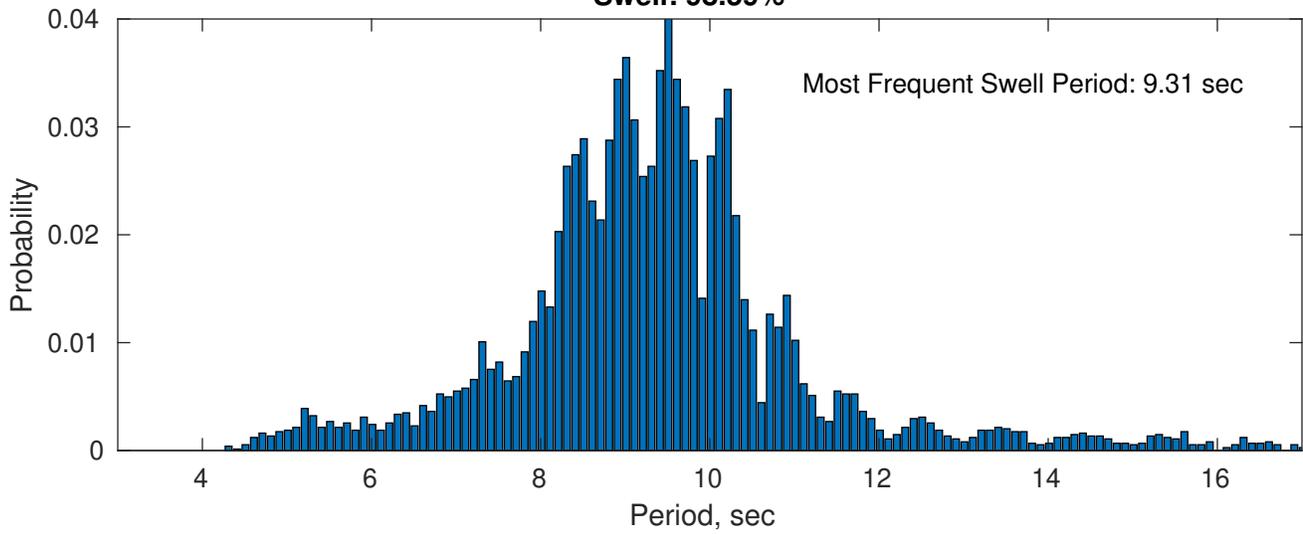
April Peak Wave Period PDF: 1979 - 2015



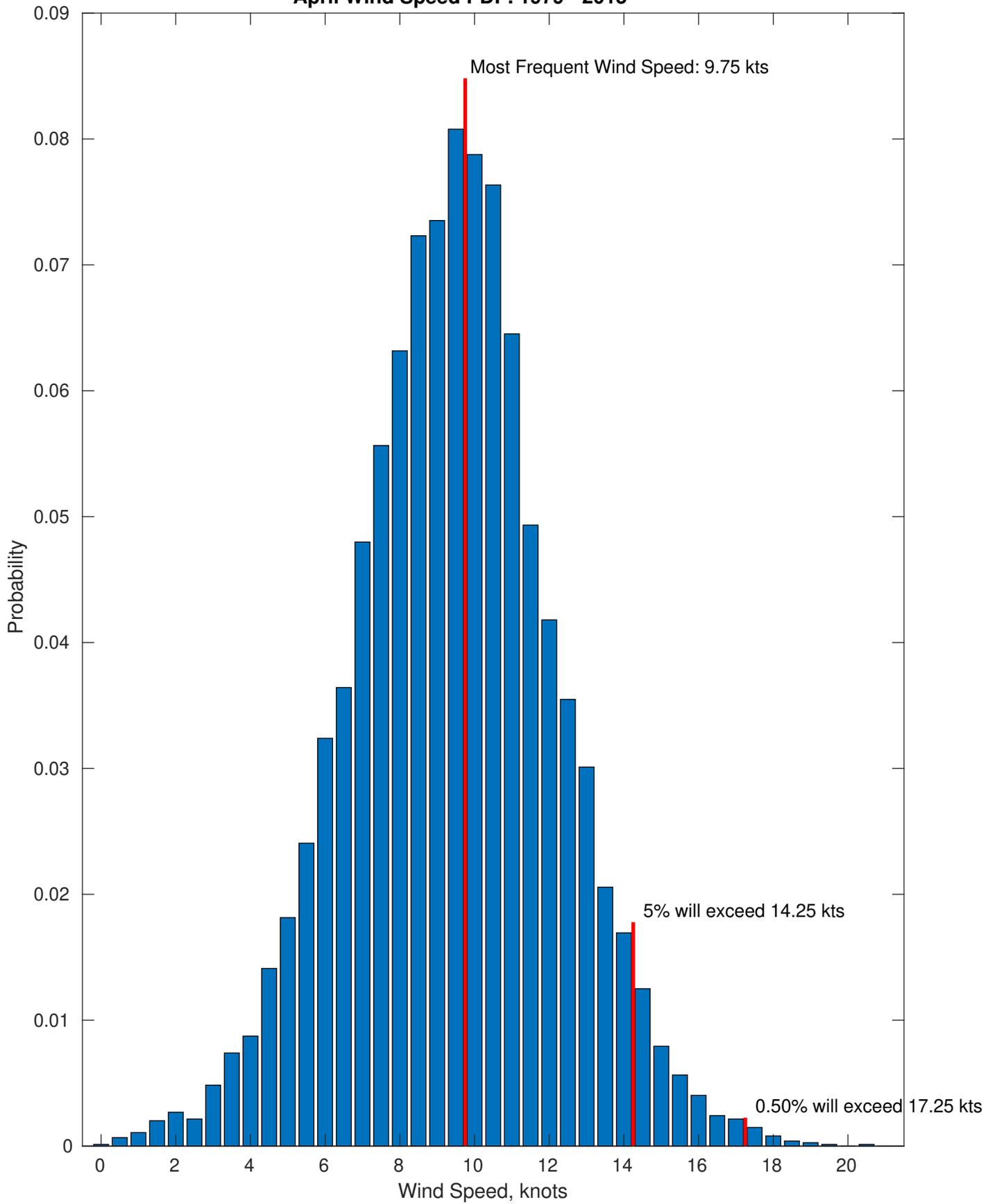
Wind-Sea: 1.41%



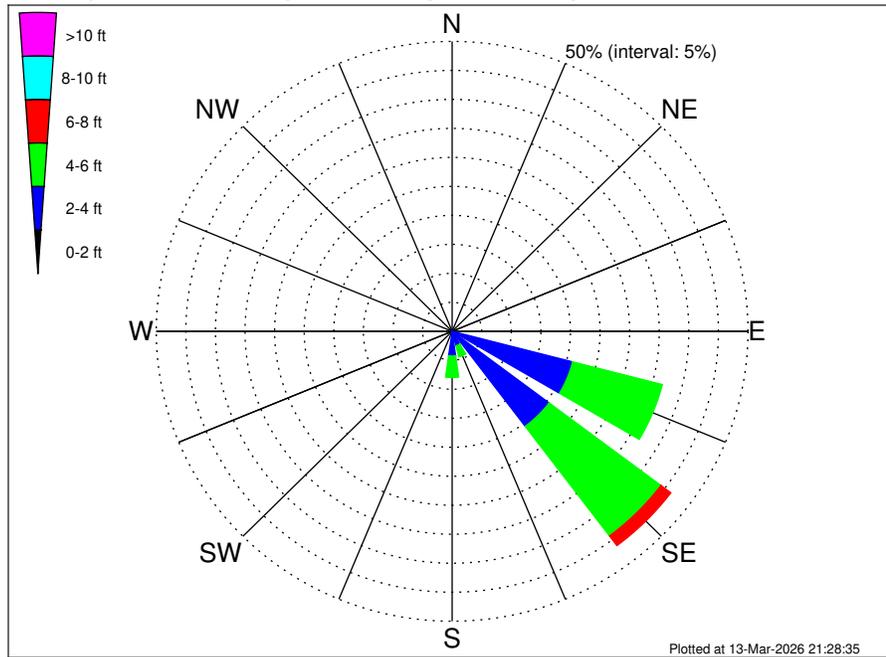
Swell: 98.59%



April Wind Speed PDF: 1979 - 2015



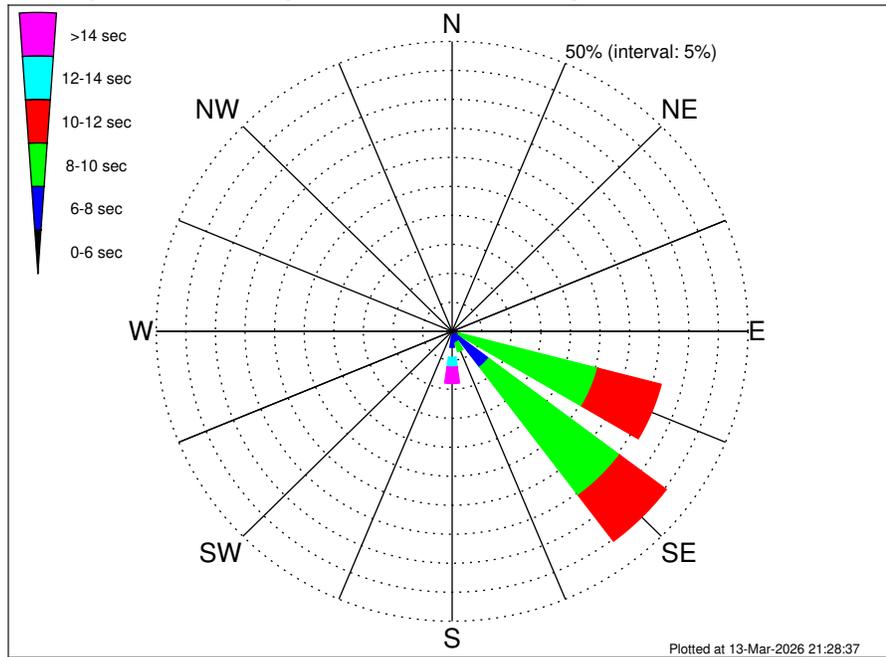
Kenya MBES Climatological WaveHeight Rose for April: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 ft	•	•	•	•	•	•	0.09	•	•	•	•	•	•	•	•	•	0.09
2 - 4 ft	•	•	0.40	1.05	0.31	21.05	20.43	2.57	4.26	•	•	•	•	•	•	•	50.07
4 - 6 ft	•	•	0.12	0.17	•	15.65	23.67	1.98	3.71	0.03	0.03	•	•	•	•	•	45.35
6 - 8 ft	•	•	0.03	•	•	0.42	2.08	0.59	0.89	0.04	0.03	•	•	•	•	•	4.07
8 - 10 ft	•	•	•	•	•	0.03	0.23	0.01	0.11	•	•	•	•	•	•	•	0.38
10 - 12 ft	•	•	•	•	•	•	•	•	0.04	•	•	•	•	•	•	•	0.04
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	•	0.55	1.22	0.31	37.14	46.51	5.15	9.01	0.07	0.05	•	•	•	•	•	100.00

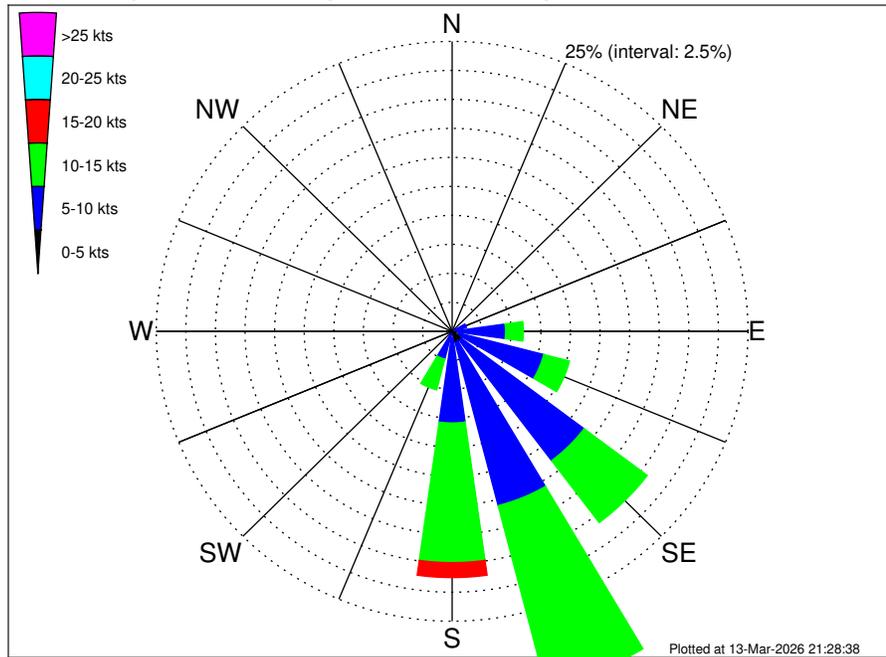
Kenya MBES Climatological WavePeriod Rose for April: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 sec	•	•	•	•	•	•	0.04	0.04	•	•	•	•	•	•	•	•	0.08
4 - 6 sec	•	•	0.44	1.08	0.23	0.44	0.67	0.55	0.83	0.03	0.03	•	•	•	•	•	4.30
6 - 8 sec	•	•	0.11	0.15	0.08	0.73	7.02	1.42	1.94	0.04	0.03	•	•	•	•	•	11.51
8 - 10 sec	•	•	•	•	•	24.25	27.70	1.61	0.75	•	•	•	•	•	•	•	54.31
10 - 12 sec	•	•	•	•	•	11.08	9.88	1.21	0.95	•	•	•	•	•	•	•	23.12
12 - 14 sec	•	•	•	•	•	0.62	0.95	0.15	1.69	•	•	•	•	•	•	•	3.41
14 - 16 sec	•	•	•	•	•	0.03	0.24	0.16	1.69	•	•	•	•	•	•	•	2.12
18 - 20 sec	•	•	•	•	•	•	•	•	0.86	•	•	•	•	•	•	•	0.86
22 - 24 sec	•	•	•	•	•	•	•	•	0.28	•	•	•	•	•	•	•	0.28
Total	•	•	0.55	1.22	0.31	37.14	46.51	5.15	9.01	0.07	0.05	•	•	•	•	•	100.00

Kenya MBES Climatological Wind Rose for April: 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	0.05	0.03	0.07	0.13	0.43	0.58	0.98	0.98	0.59	0.22	0.11	0.05	0.03	•	0.01	0.04	4.30
5 - 10 kts	•	0.04	0.26	1.10	4.06	7.42	12.97	14.54	7.31	2.24	0.30	0.13	0.04	0.01	0.01	•	50.44
10 - 15 kts	•	•	0.09	0.62	1.51	2.24	6.68	16.25	12.04	2.74	0.36	0.07	0.01	0.01	•	•	42.63
15 - 20 kts	•	•	0.07	0.11	•	0.01	0.04	0.62	1.29	0.35	0.03	0.01	•	•	•	•	2.53
20 - 25 kts	•	•	•	•	•	•	•	0.01	•	•	•	•	•	•	•	•	0.01
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.05	0.07	0.48	1.96	6.02	10.26	20.69	32.41	21.24	5.56	0.81	0.28	0.08	0.03	0.03	0.04	100.00