

Tanzania MBES - March

Latitude: 8.22 S Longitude: 41.08 E

Weather Days

Wave Height > 5.0 ft Mean: 1.4 days Range: 0.0 - 3.3 days p50:4 days p75:1.5 days p90:0.5 days

Wave Height > 6.5 ft Mean: 0.1 days Range: 0.0 - 0.4 days p50:30 days p75:30 days p90:30 days

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

Wind Speed > 15.0 knots Mean: 0.7 days Range: 0.0 - 1.4 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 - 0.1 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 1.5 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 1.3 times per month

Wave Height < 6.5 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 1.0 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 6 - 8 ft, but rarely higher.

Mean Period: 6 - 8 sec

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

Principle Direction, from: ESE

WindSea/Swell: 4% / 96%

Winds

Mean Speed: 5 - 10 kts

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

Principle Direction, from: NE

Currents

Mean Speed: 0.25-0.50 kts

The currents will occasionally reach 1.25-1.50 kts, but rarely greater.

Principle Direction, to: NW

Weather Days

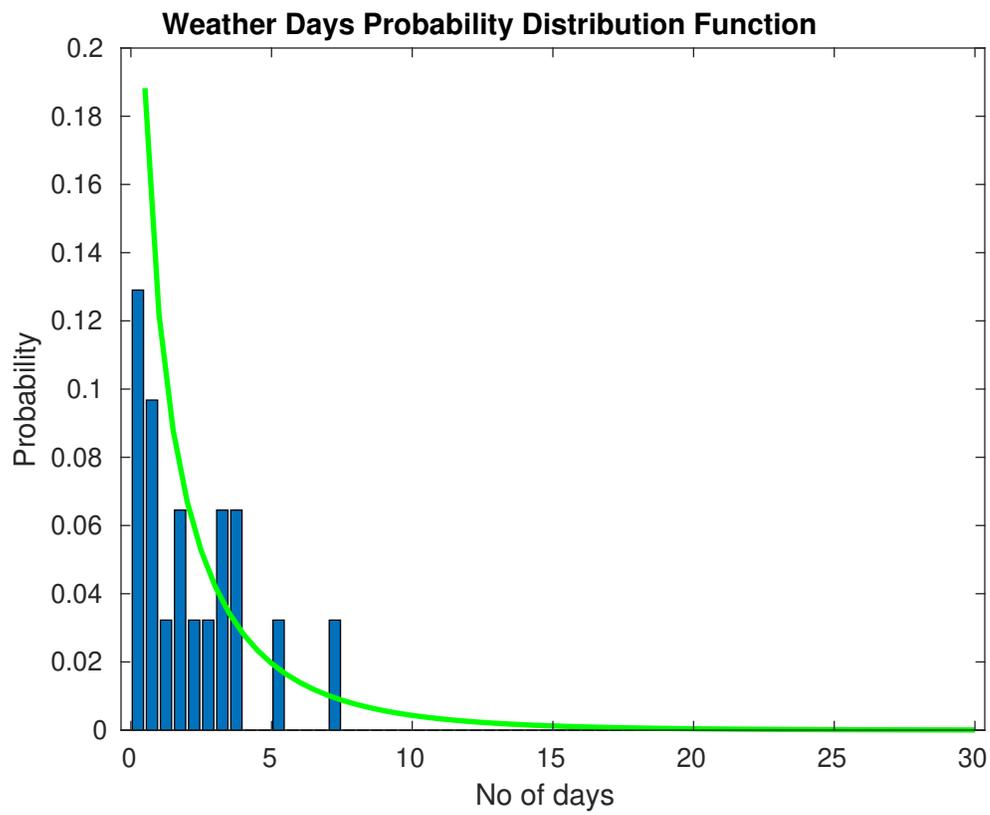
Current Speed > 0.5 knots Mean: 14.5 days Range: 8.7 - 20.3 days p50:15 days p75:10 days p90:8 days

Current Speed > 1.0 knots Mean: 1.7 days Range: 0.0 - 3.9 days p50:2 days p75:1 days p90:1 days

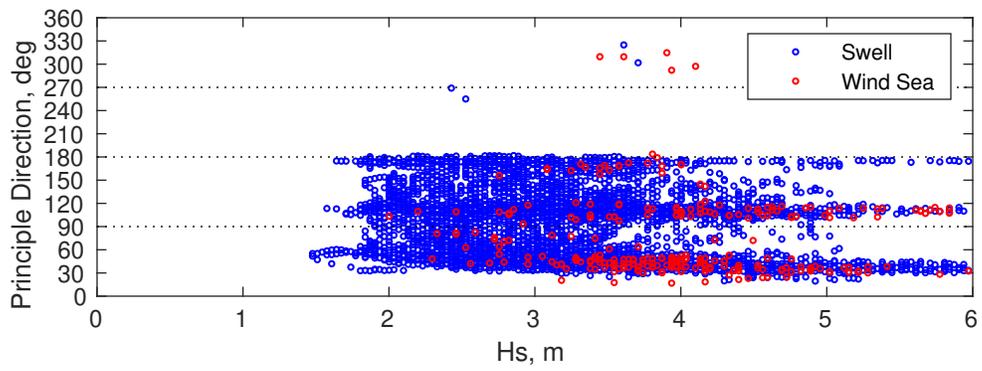
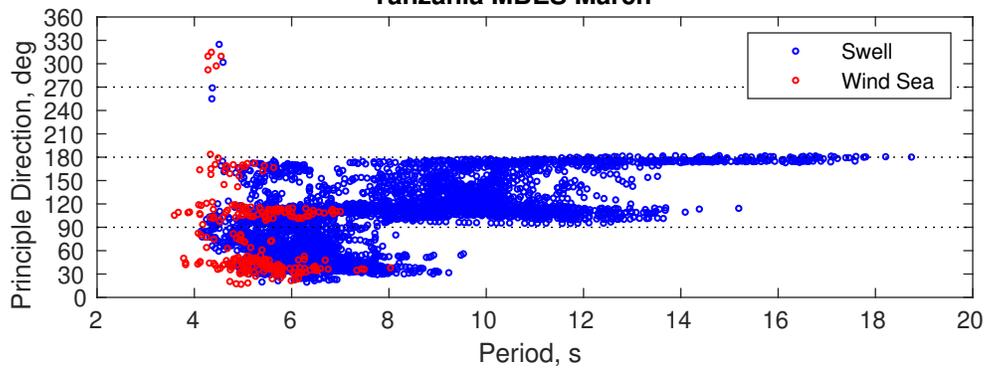
Current Speed > 1.5 knots Mean: 0.2 days Range: 0.0 - 0.6 days p50:1 days p75:1 days p90:1 days

Severe Storms

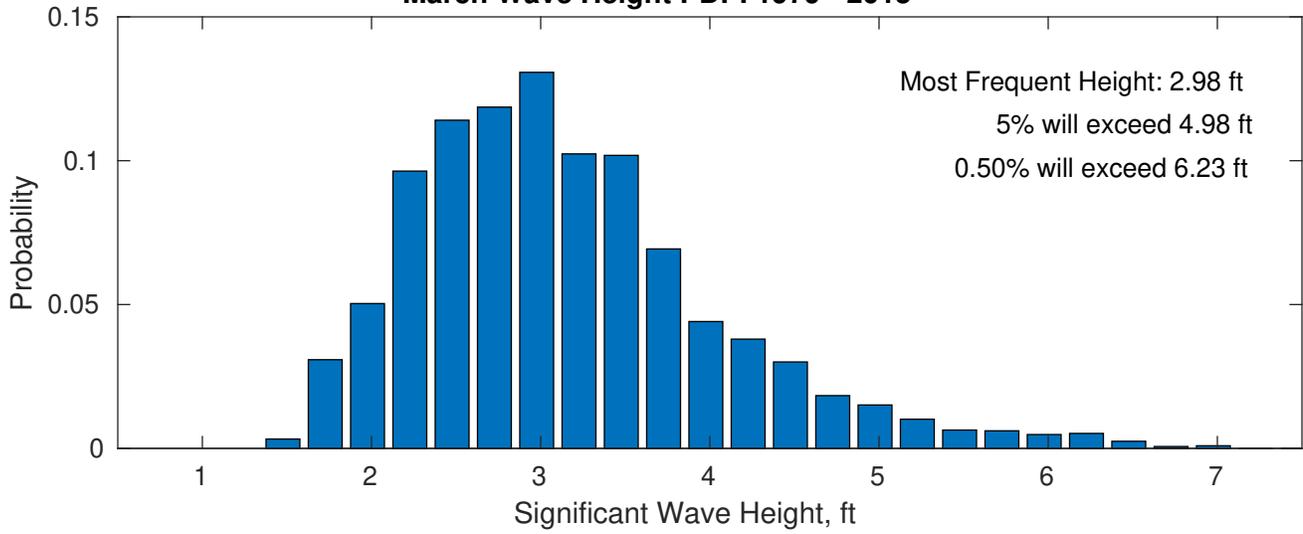
Severe storms with gale force winds and extreme waves are not expected during this month.



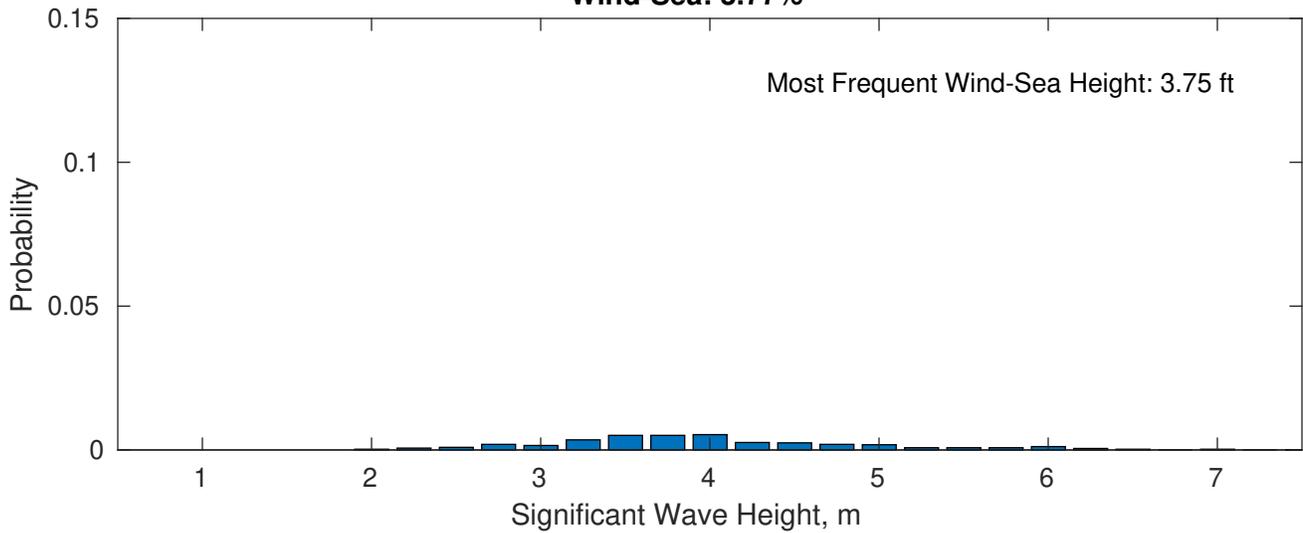
Tanzania MBES March



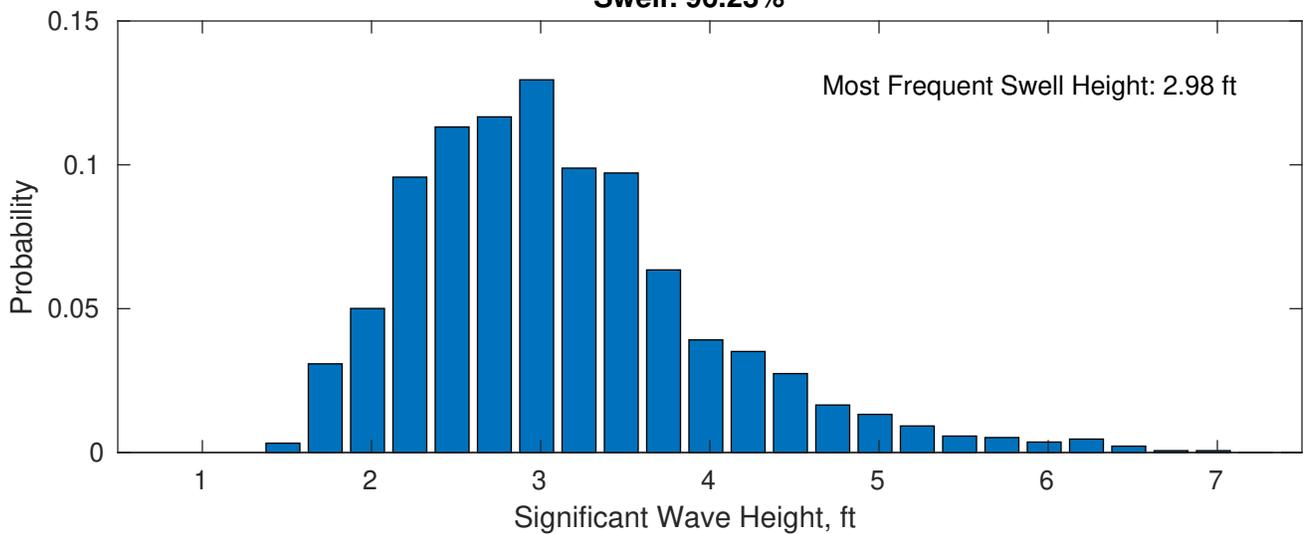
March Wave Height PDF: 1979 - 2015



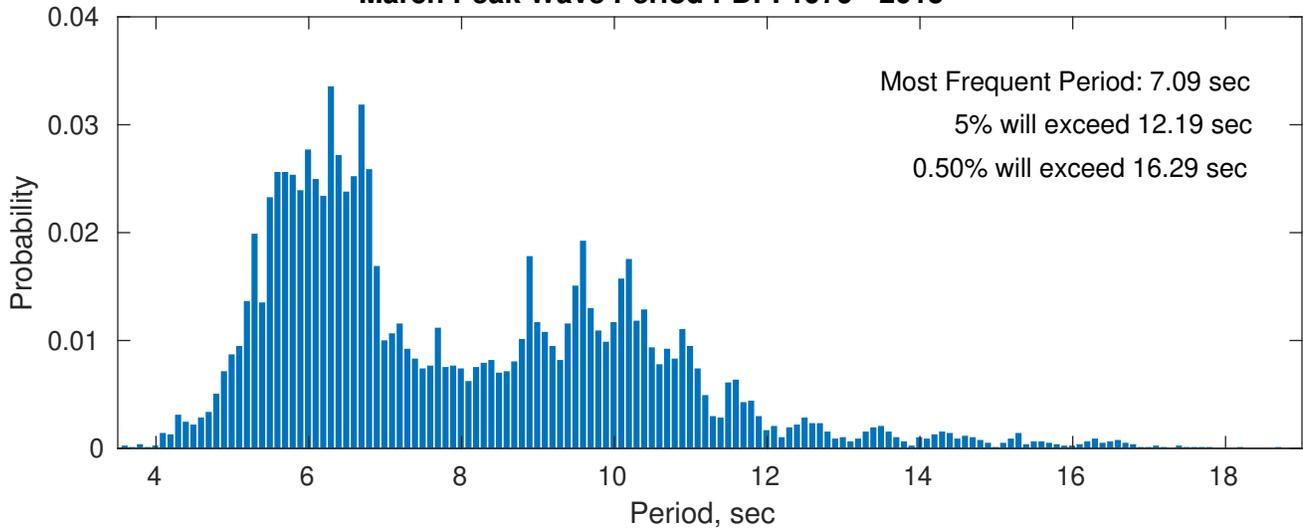
Wind-Sea: 3.77%



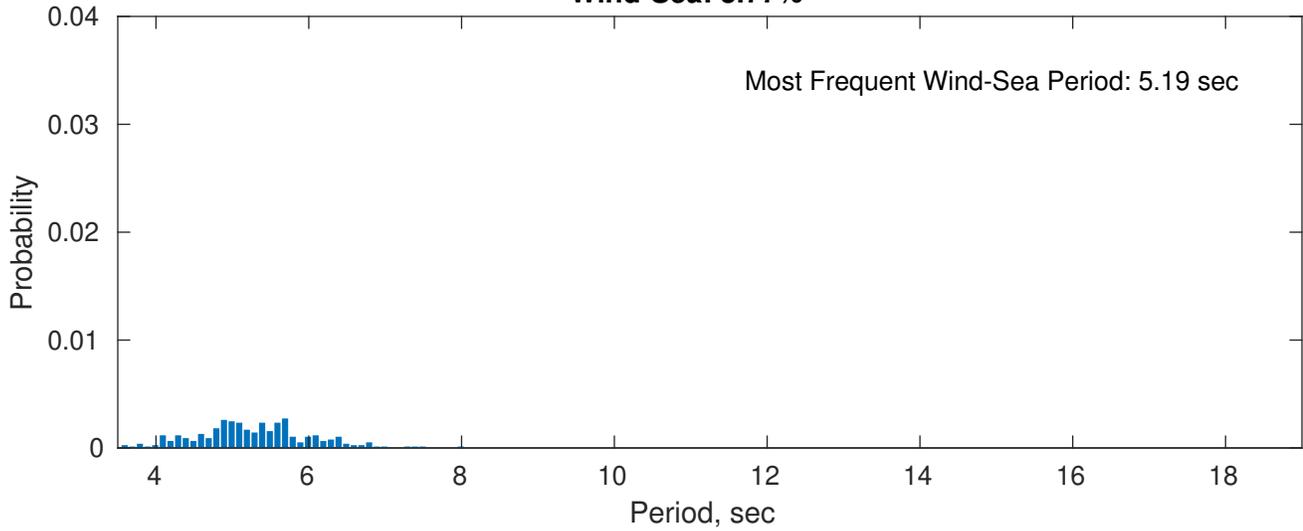
Swell: 96.23%



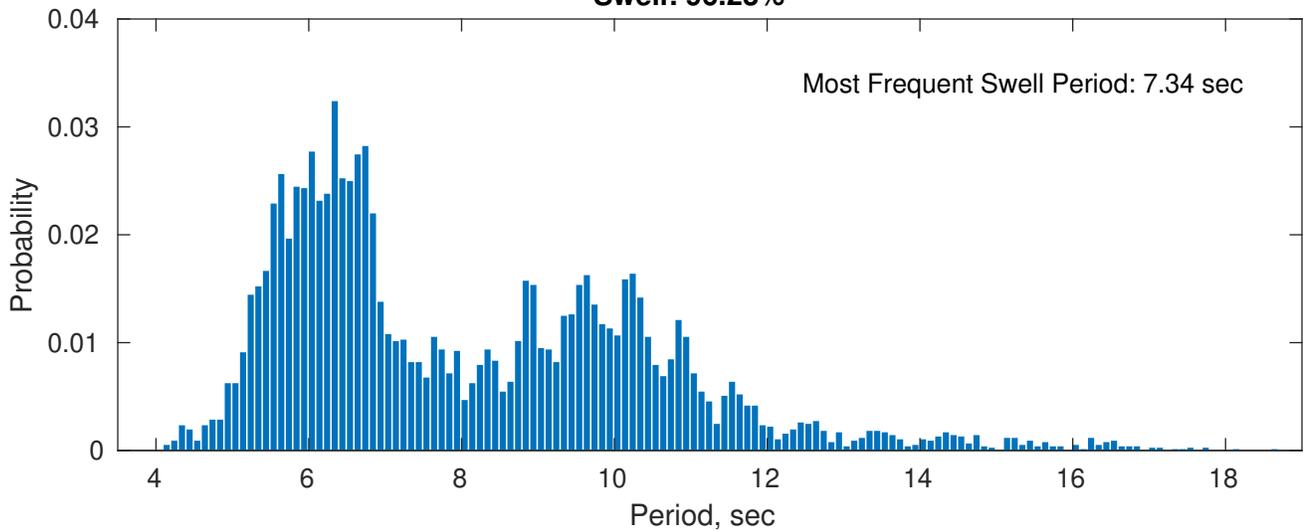
March Peak Wave Period PDF: 1979 - 2015



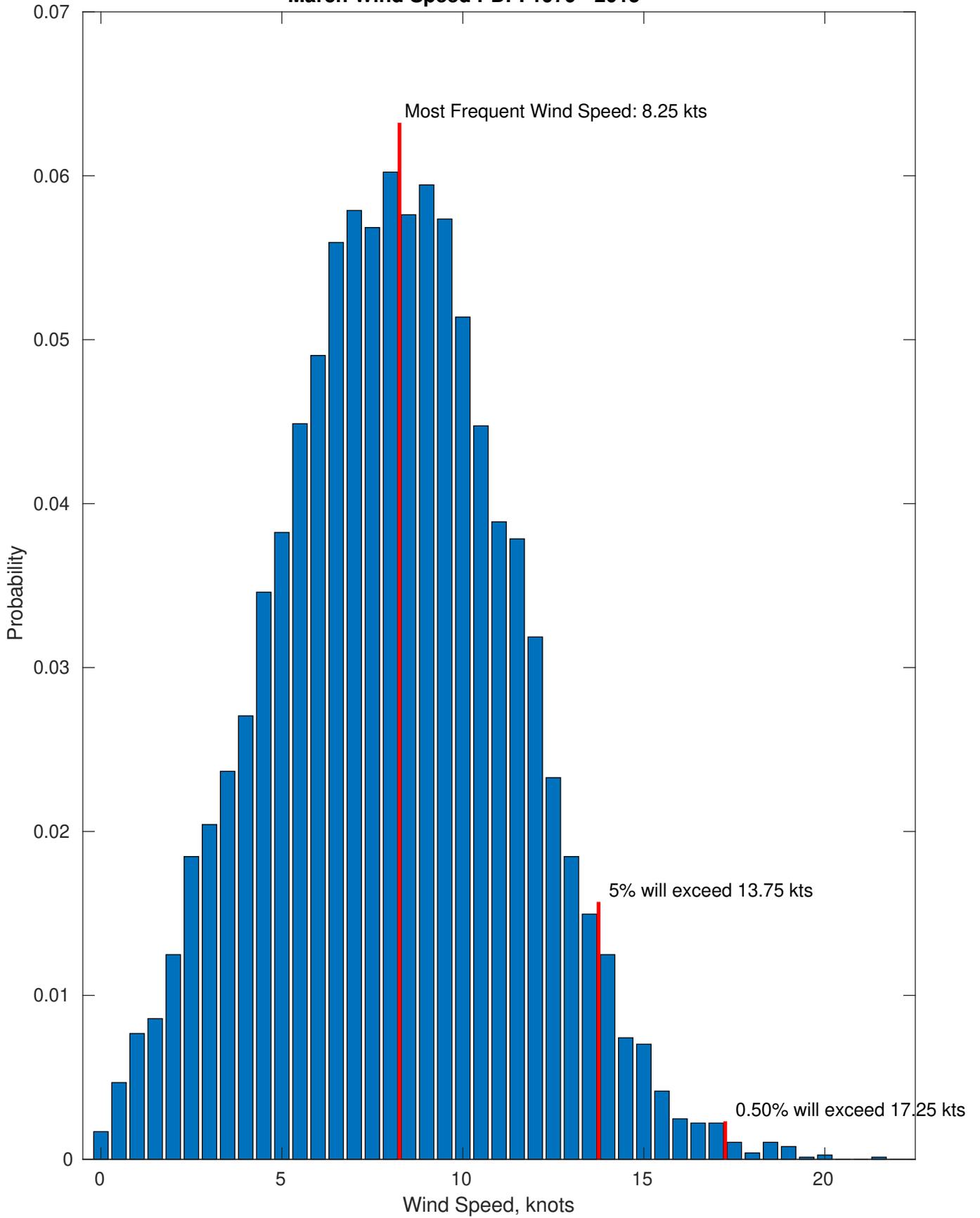
Wind-Sea: 3.77%



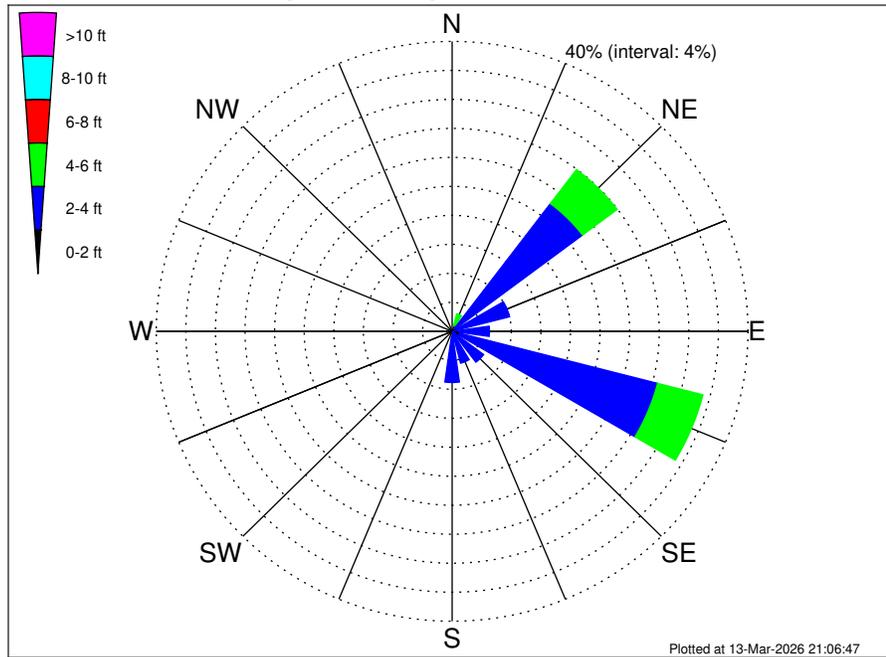
Swell: 96.23%



March Wind Speed PDF: 1979 - 2015



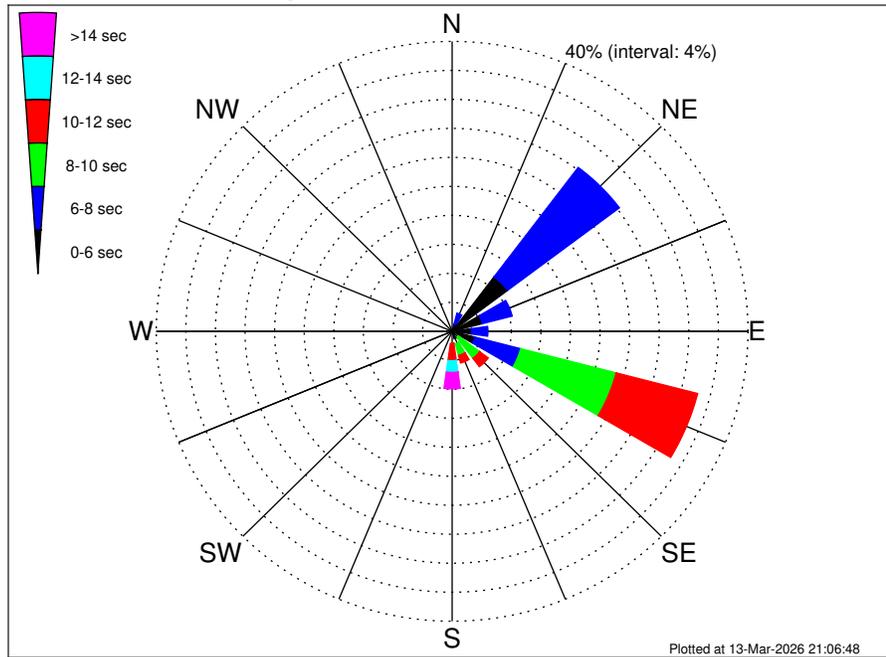
Tanzania MBES Climatological WaveHeight Rose for March: 1979 - 2015



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	•	0.08	0.51	0.64	0.17	1.05	0.14	0.13	0.69	•	•	•	•	•	•	•	3.41
2 - 4 ft	•	0.82	21.57	7.39	4.88	27.64	5.19	4.41	6.37	•	•	0.01	0.01	0.03	0.05	•	78.37
4 - 6 ft	•	1.59	5.87	0.36	0.65	6.32	0.87	0.27	0.87	•	•	•	•	0.01	•	•	16.82
6 - 8 ft	•	0.36	0.86	•	•	0.18	•	•	•	•	•	•	•	•	•	•	1.40
8 - 10 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10 - 12 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	2.85	28.80	8.39	5.70	35.20	6.20	4.81	7.93	•	•	0.01	0.01	0.04	0.05	•	100.00

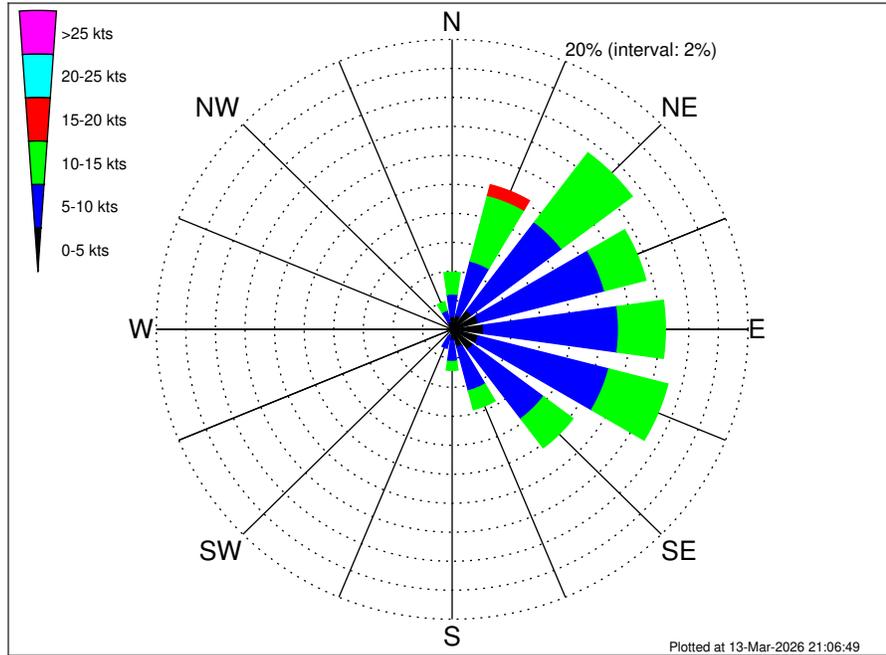
Tanzania MBES Climatological WavePeriod Rose for March: 1979 - 2015



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	•	•	0.05	•	•	•	•	•	•	•	•	•	•	0.09
4 - 6 sec	•	1.03	9.37	4.21	2.64	3.12	0.35	1.07	0.40	•	•	0.01	0.01	0.04	0.05	•	22.31
6 - 8 sec	•	1.56	18.91	4.18	2.20	6.40	0.69	0.70	0.29	•	•	•	•	•	•	•	34.92
8 - 10 sec	•	0.26	0.48	•	0.31	13.33	3.62	1.66	0.99	•	•	•	•	•	•	•	20.66
10 - 12 sec	•	•	•	•	0.35	11.38	1.46	1.08	2.38	•	•	•	•	•	•	•	16.65
12 - 14 sec	•	•	•	•	0.20	0.87	0.09	0.30	1.61	•	•	•	•	•	•	•	3.07
14 - 16 sec	•	•	•	•	•	0.04	•	•	1.59	•	•	•	•	•	•	•	1.63
18 - 20 sec	•	•	•	•	•	•	•	•	0.65	•	•	•	•	•	•	•	0.65
22 - 24 sec	•	•	•	•	•	•	•	•	0.03	•	•	•	•	•	•	•	0.03
Total	•	2.85	28.80	8.39	5.70	35.20	6.20	4.81	7.93	•	•	0.01	0.01	0.04	0.05	•	100.00

Tanzania MBES Climatological Wind Rose for March: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.05	0.04	0.04	0.07	0.07	0.08	0.07	0.04	0.05	0.03	0.01	0.03	•	0.03	0.03	0.03	0.64
0 - 5 kts	0.83	0.99	1.61	1.78	2.07	1.76	1.69	1.25	0.70	0.46	0.42	0.27	0.30	0.34	0.31	0.52	15.30
5 - 10 kts	1.55	3.84	7.61	8.79	9.12	9.11	5.97	3.10	1.47	0.87	0.34	0.23	0.23	0.33	0.39	0.81	53.75
10 - 15 kts	1.51	4.68	5.98	2.89	3.16	4.12	2.50	1.34	0.61	0.22	0.08	0.04	0.08	0.14	0.17	0.61	28.13
15 - 20 kts	0.36	0.75	0.23	0.01	0.04	0.39	0.16	0.04	•	•	•	•	•	0.05	0.03	0.08	2.15
20 - 25 kts	0.01	0.01	•	•	•	•	•	•	•	•	•	•	•	•	•	0.01	0.04
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	4.32	10.31	15.48	13.54	14.45	15.45	10.38	5.76	2.84	1.57	0.85	0.57	0.61	0.88	0.92	2.06	100.00