

Tanzania MBES - February

Latitude: 8.22 S Longitude: 41.08 E

Weather Days

Wave Height > 5.0 ft Mean: 8.5 days Range: 3.3 - 13.7 days p50:8 days p75:5 days p90:3 days

Wave Height > 6.5 ft Mean: 2.6 days Range: 0.0 - 5.3 days p50:3.5 days p75:1.5 days p90:0.5 days

Wave Height > 8.0 ft Mean: 0.5 days Range: 0.0 - 1.4 days p50:30 days p75:1 days p90:0.5 days

Wind Speed > 15.0 knots Mean: 4.5 days Range: 1.7 - 7.2 days p50:4.5 days p75:2.5 days p90:2 days

Wind Speed > 20.0 knots Mean: 0.2 days Range: 0.0 - 0.6 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 2.3 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 1.5 times per month
A 2 day or longer window will statistically occur 1.3 times per month
A 3 day or longer window will statistically occur 1.3 times per month

Wave Height < 8.0 ft
A 1 day or longer window will statistically occur 0.7 times per month
A 2 day or longer window will statistically occur 0.7 times per month
A 3 day or longer window will statistically occur 0.7 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 12 - 14 sec, but rarely longer.

Principle Direction, from: NE

WindSea/Swell: 7% / 93%

Winds

Mean Speed: 10 - 15 kts

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

Principle Direction, from: NNE

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: 12.4 days Range: 6.8 - 18.0 days p50:13 days p75:9 days p90:6 days

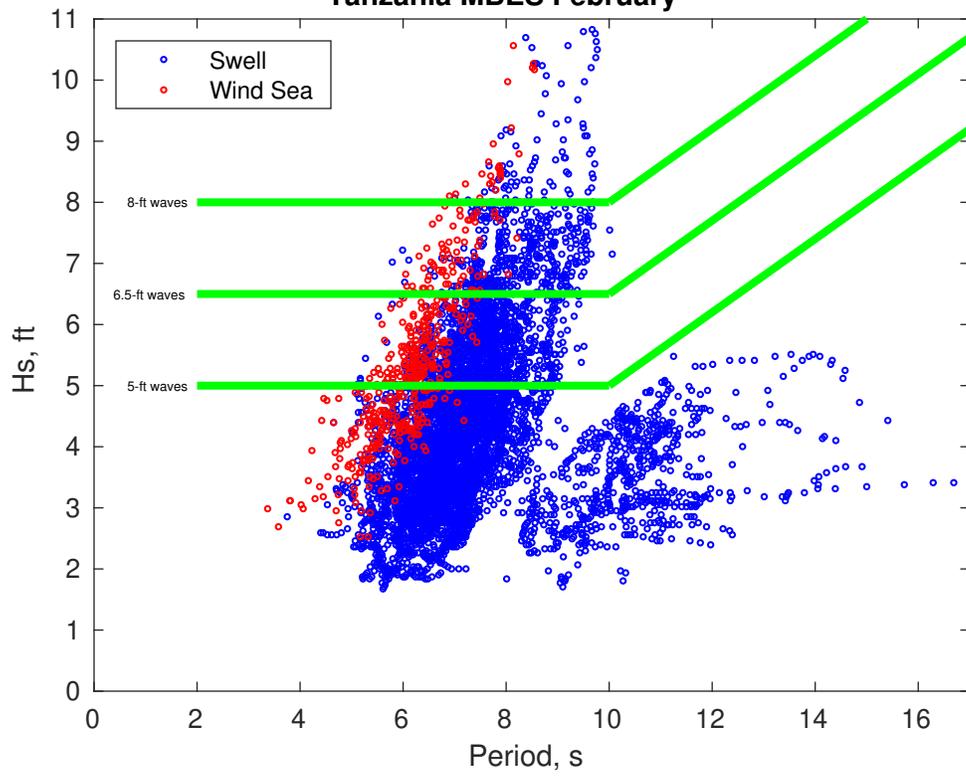
Current Speed > 1.0 knots Mean: 1.0 days Range: 0.0 - 3.1 days p50:1 days p75:1 days p90:1 days

Current Speed > 1.5 knots Mean: 0.1 days Range: 0.0 - 0.3 days p50:1 days p75:1 days p90:1 days

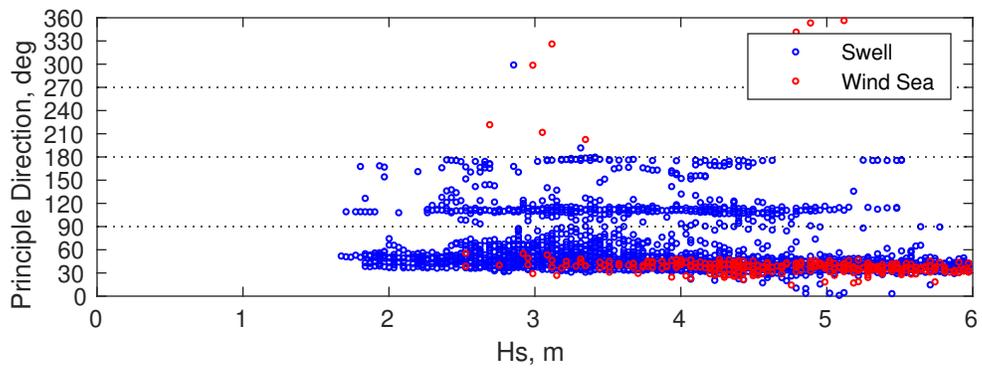
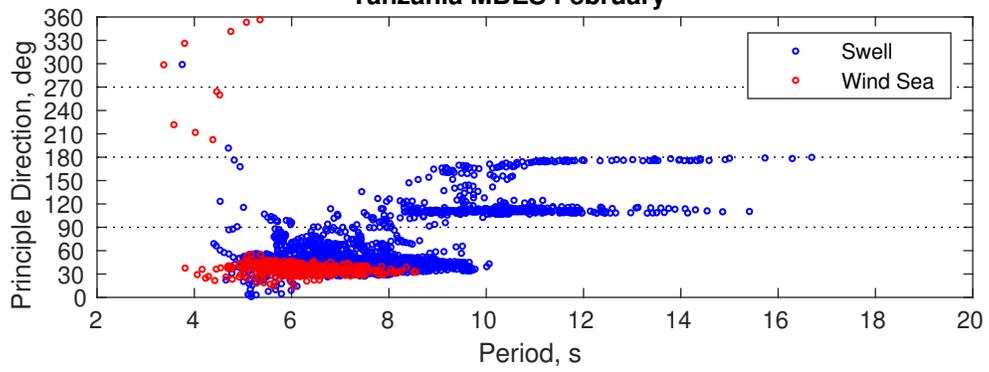
Severe Storms

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

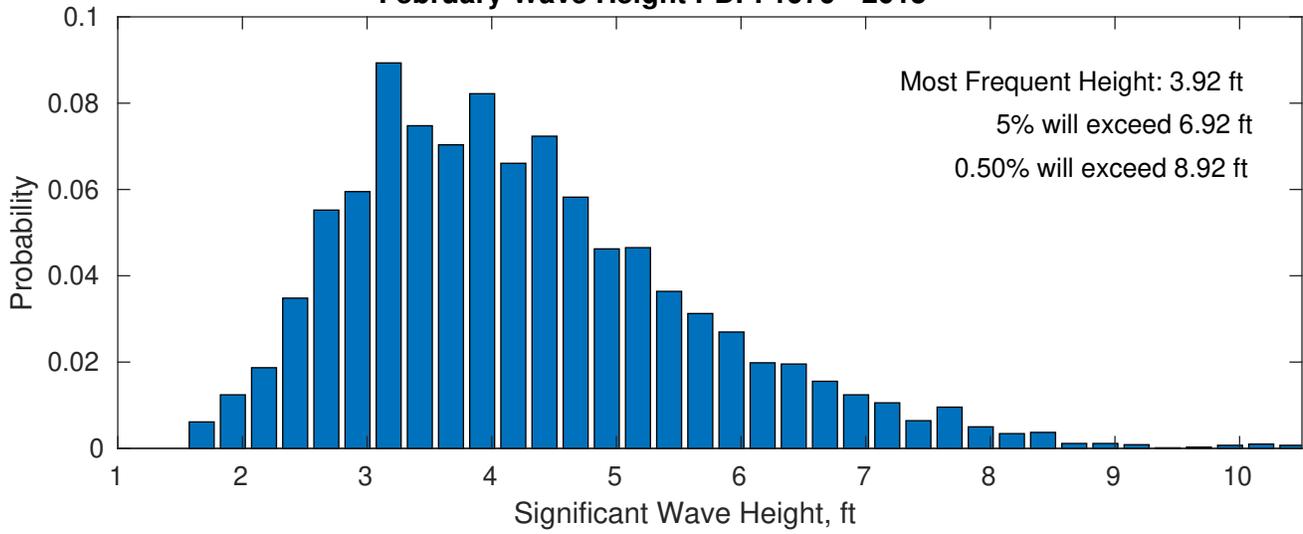
Tanzania MBES February



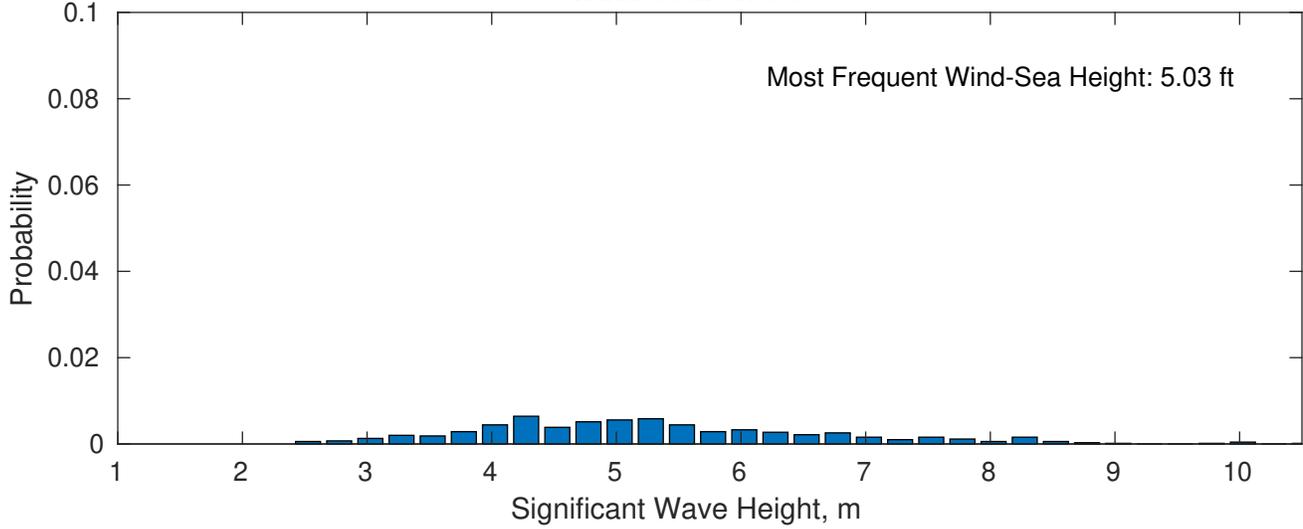
Tanzania MBES February



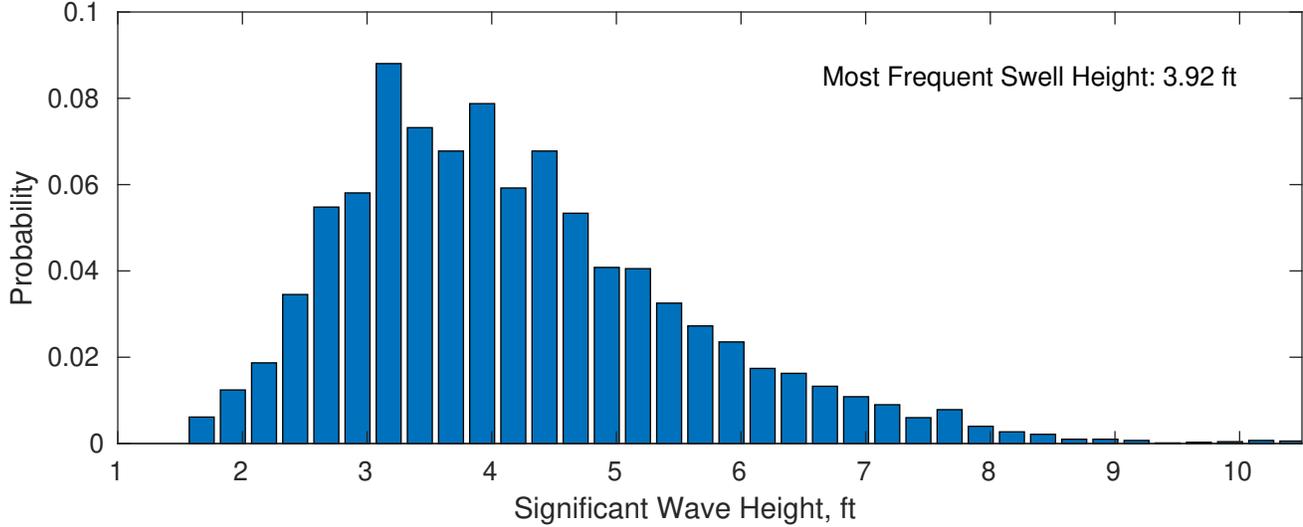
February Wave Height PDF: 1979 - 2015



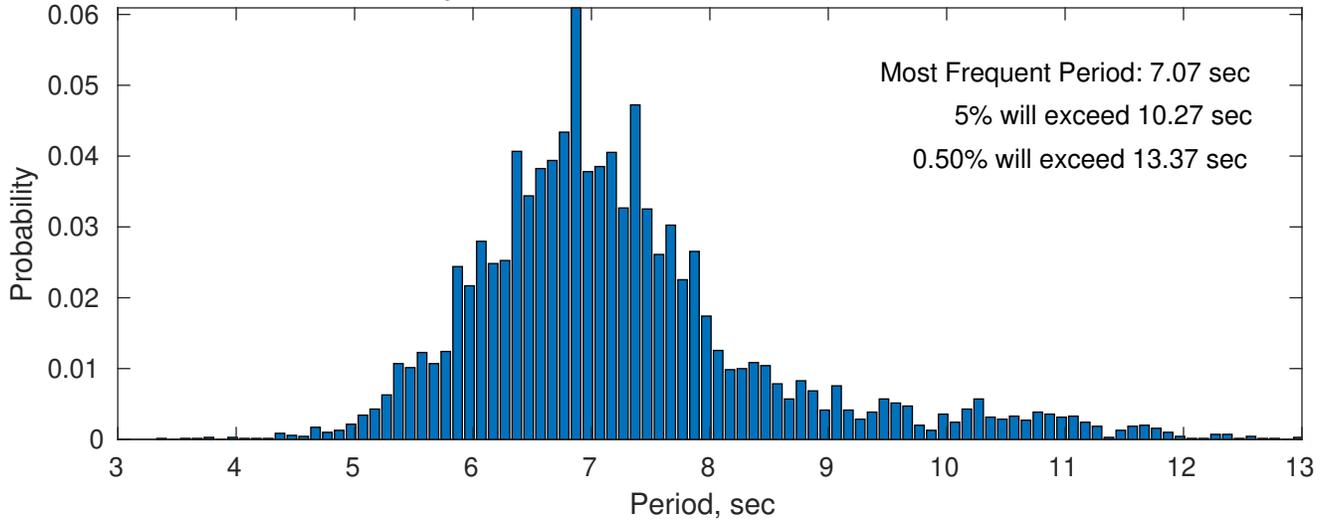
Wind-Sea: 6.76%



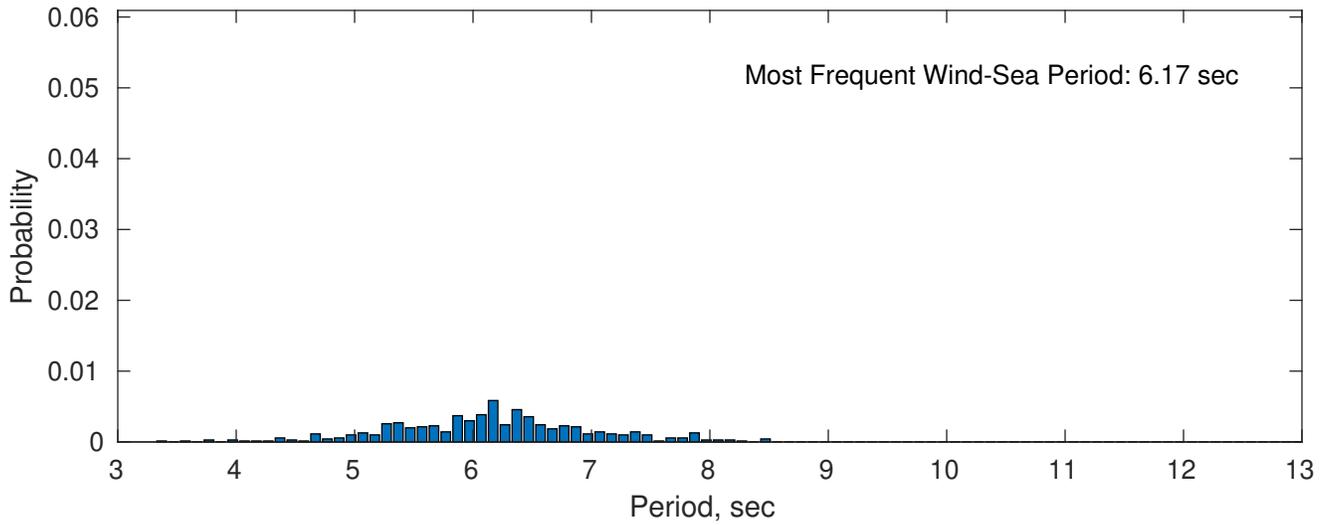
Swell: 93.24%



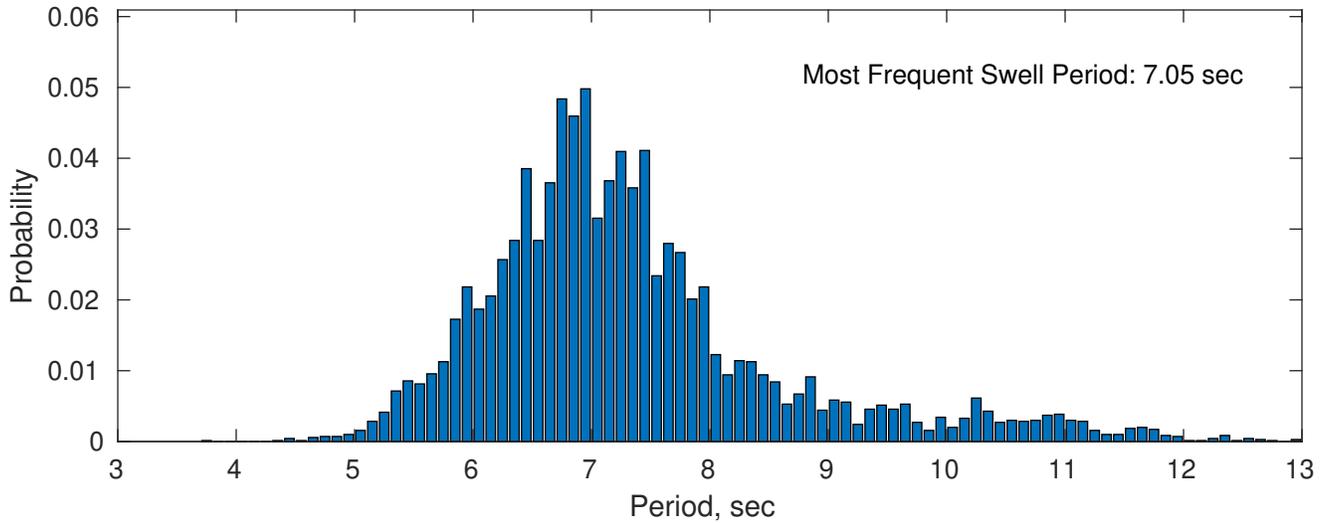
February Peak Wave Period PDF: 1979 - 2015



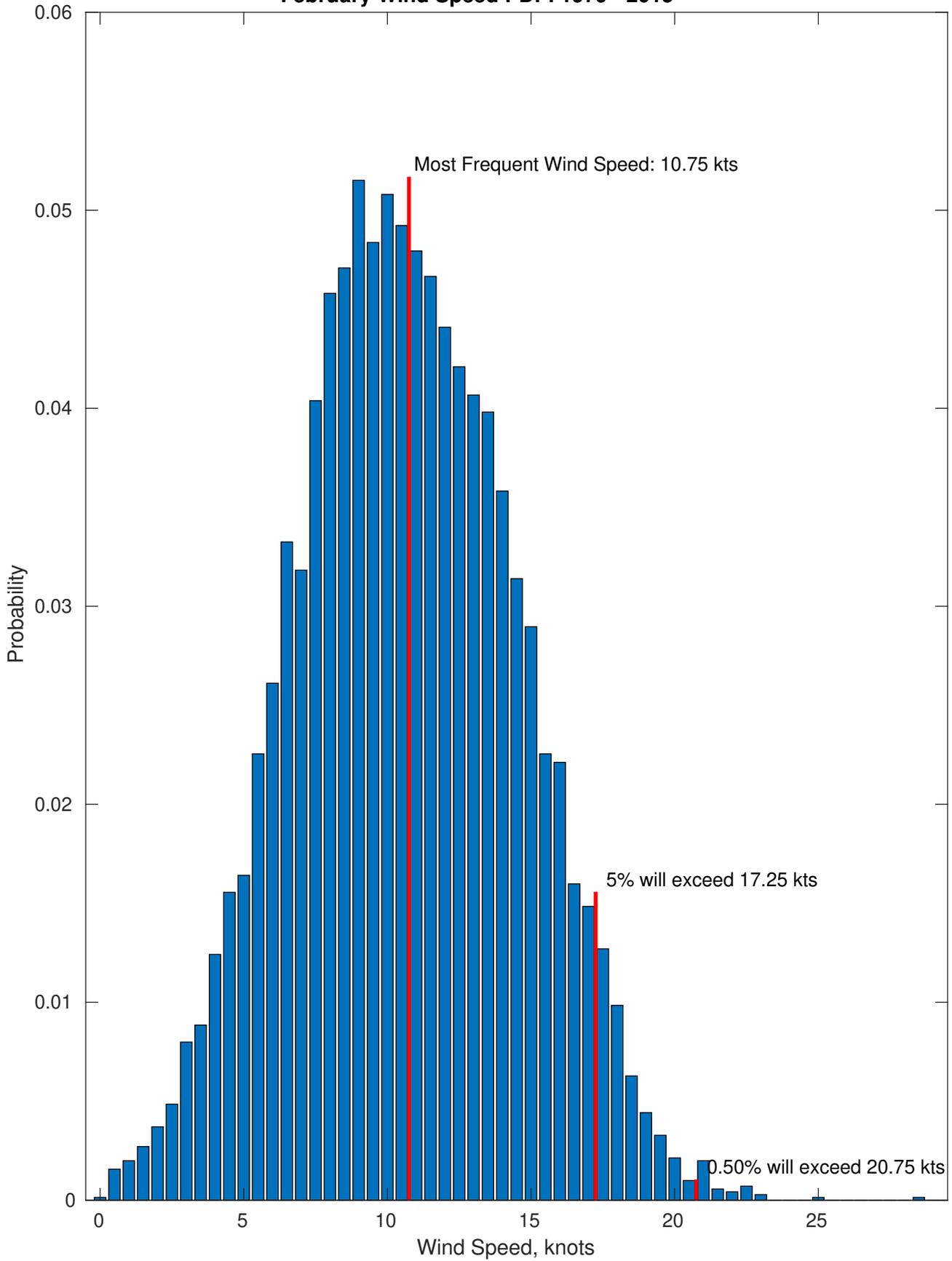
Wind-Sea: 6.76%



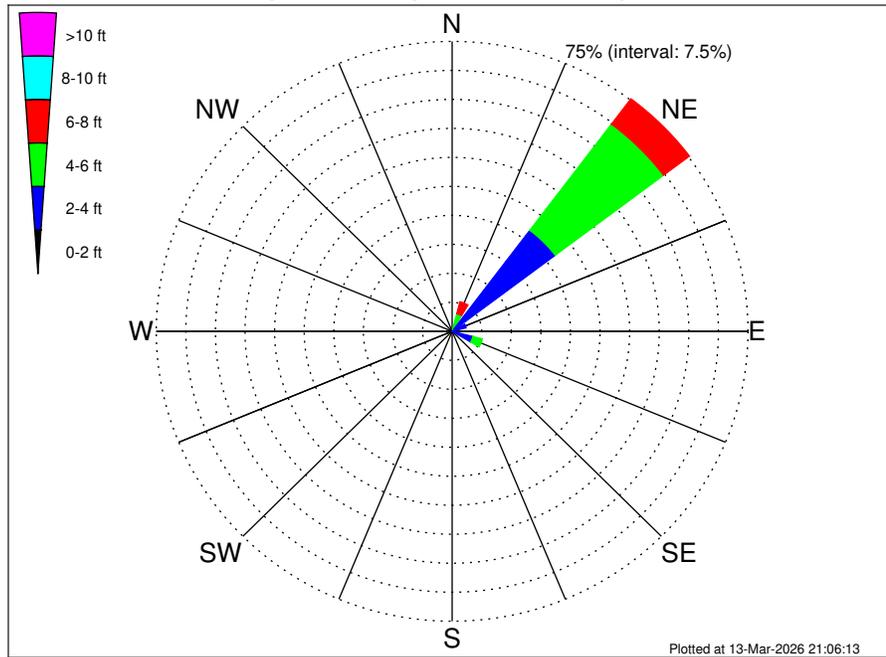
Swell: 93.24%



February Wind Speed PDF: 1979 - 2015



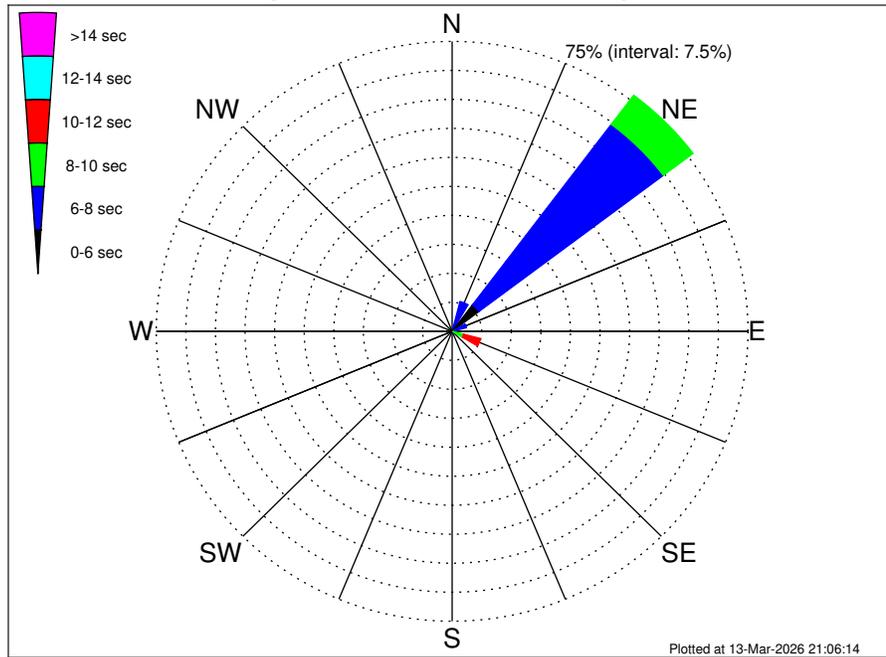
Tanzania MBES Climatological WaveHeight Rose for February: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 ft	•	•	0.78	0.04	•	0.11	0.01	0.06	•	•	•	•	•	•	•	•	1.01
2 - 4 ft	•	0.56	31.95	3.61	0.57	5.34	0.26	0.34	0.60	0.04	0.01	•	•	0.03	0.01	•	43.32
4 - 6 ft	0.13	4.17	34.39	0.37	0.36	2.45	0.07	0.19	0.41	•	•	•	0.03	•	•	0.01	42.58
6 - 8 ft	0.04	3.17	8.19	•	•	•	•	•	•	•	•	•	•	•	•	•	11.40
8 - 10 ft	•	0.36	1.07	•	•	•	•	•	•	•	•	•	•	•	•	•	1.43
10 - 12 ft	•	0.14	0.11	•	•	•	•	•	•	•	•	•	•	•	•	•	0.26
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.17	8.39	76.50	4.02	0.93	7.91	0.34	0.59	1.01	0.04	0.01	•	0.03	0.03	0.01	0.01	100.00

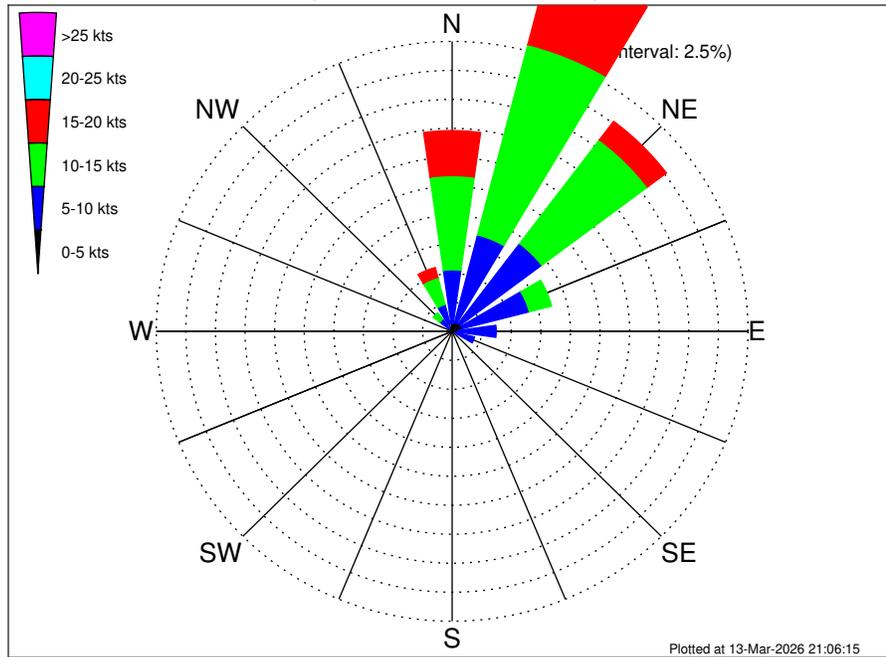
Tanzania MBES Climatological WavePeriod Rose for February: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 sec	•	•	0.01	•	•	•	•	•	•	•	0.01	•	•	0.03	0.01	•	0.07
4 - 6 sec	0.17	1.21	8.52	0.57	0.29	0.11	•	0.01	0.01	0.04	•	•	0.03	•	•	0.01	10.99
6 - 8 sec	•	6.75	58.52	3.18	0.50	0.19	0.03	•	•	•	•	•	•	•	•	•	69.16
8 - 10 sec	•	0.43	9.42	0.27	0.14	2.71	0.26	0.33	0.04	•	•	•	•	•	•	•	13.60
10 - 12 sec	•	•	0.03	•	•	4.45	0.06	0.24	0.50	•	•	•	•	•	•	•	5.28
12 - 14 sec	•	•	•	•	•	0.36	•	•	0.23	•	•	•	•	•	•	•	0.59
14 - 16 sec	•	•	•	•	•	0.09	•	•	0.20	•	•	•	•	•	•	•	0.29
18 - 20 sec	•	•	•	•	•	•	•	•	0.03	•	•	•	•	•	•	•	0.03
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.17	8.39	76.50	4.02	0.93	7.91	0.34	0.59	1.01	0.04	0.01	•	0.03	0.03	0.01	0.01	100.00

Tanzania 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	•	•	•	0.03	0.01	•	•	•	0.01	•	0.01	•	0.01	0.06	0.17
0 - 5 kts	0.64	0.74	0.87	0.88	0.53	0.30	0.13	0.13	0.17	0.06	0.04	0.07	0.10	0.20	0.34	0.60	5.81
5 - 10 kts	4.65	7.83	8.60	5.85	3.20	1.63	0.54	0.20	0.10	0.16	0.13	0.19	0.19	0.39	0.96	1.73	36.33
10 - 15 kts	8.12	16.95	11.20	1.94	0.40	0.44	0.04	0.01	0.04	0.04	0.06	0.09	0.09	0.33	0.68	2.41	42.85
15 - 20 kts	3.88	6.93	2.00	0.04	•	•	•	•	•	•	•	0.06	0.07	0.06	0.17	0.88	14.10
20 - 25 kts	0.31	0.29	0.03	•	•	•	•	•	•	•	•	•	•	0.01	0.03	0.04	0.71
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.03	0.03
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	17.62	32.76	22.70	8.72	4.12	2.40	0.73	0.34	0.31	0.26	0.24	0.40	0.46	0.98	2.20	5.75	100.00