

Tanzania MBES - January

Latitude: 8.22 S Longitude: 41.08 E

Weather Days

Wave Height > 5.0 ft Mean: 11.8 days Range: 6.7 - 16.9 days p50:12 days p75:7.5 days p90:7 days

Wave Height > 6.5 ft Mean: 3.9 days Range: 0.6 - 7.2 days p50:6 days p75:3 days p90:0.5 days

Wave Height > 8.0 ft Mean: 1.2 days Range: 0.0 - 2.8 days p50:30 days p75:2 days p90:1.5 days

Wind Speed > 15.0 knots Mean: 6.0 days Range: 3.0 - 9.0 days p50:7 days p75:3.5 days p90:2.5 days

Wind Speed > 20.0 knots Mean: 0.5 days Range: 0.0 - 1.4 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 - 0.2 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 1.7 times per month

Wave Height < 6.5 ft
A 1 day or longer window will statistically occur 1.8 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 < 8.0 ft
A 1 day or longer window will statistically occur 1.4 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 1.2 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: 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 1.00-1.25 kts, but rarely greater.

Principle Direction, to: NW

Weather Days

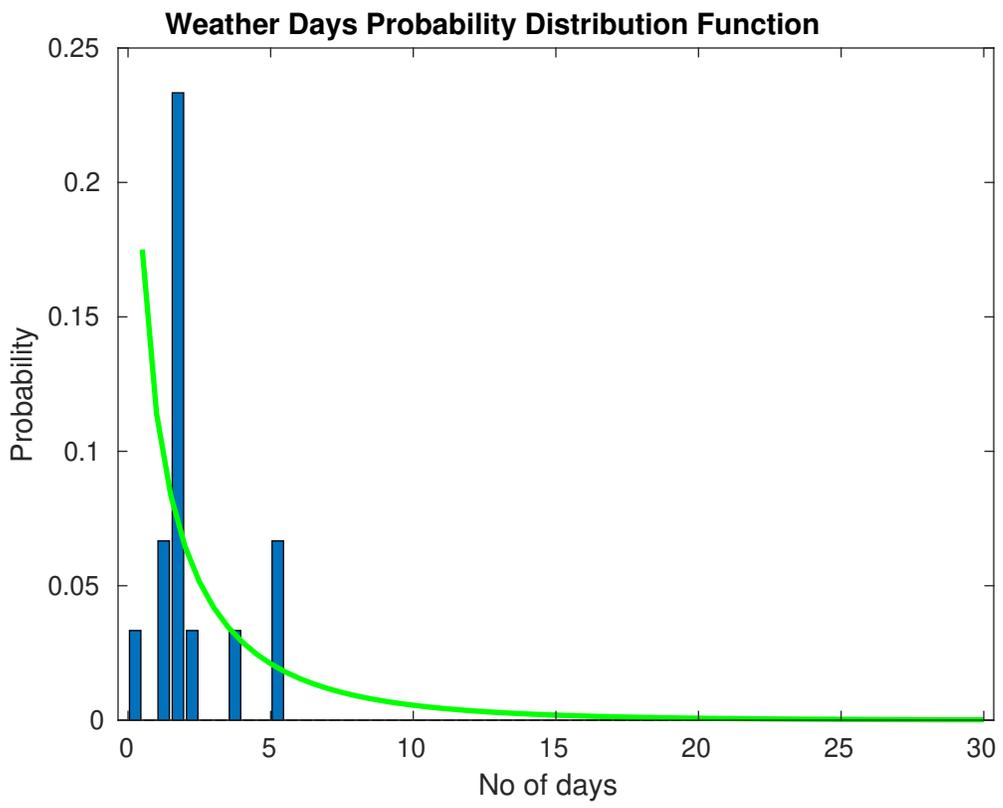
Current Speed > 0.5 knots Mean: 9.6 days Range: 3.4 - 15.8 days p50:10 days p75:5 days p90:2 days

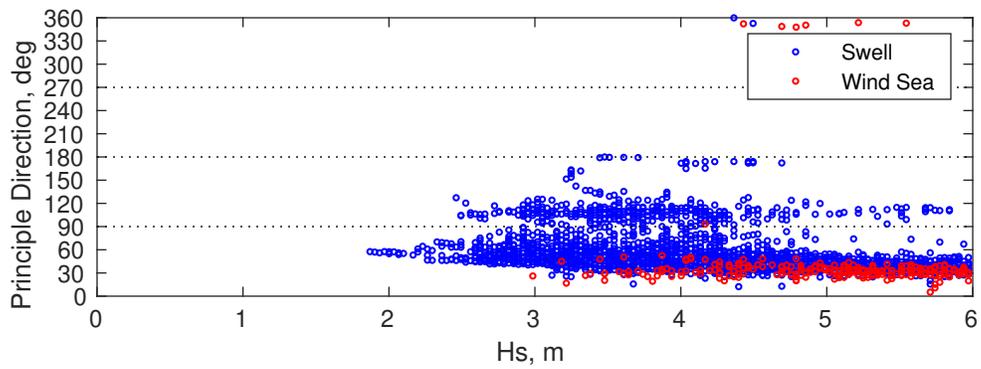
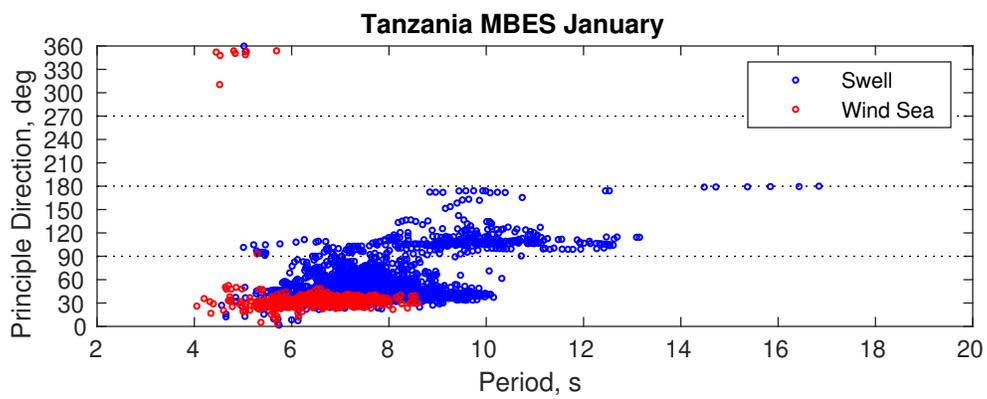
Current Speed > 1.0 knots Mean: 0.9 days Range: 0.0 - 2.4 days p50:1 days p75:1 days p90:1 days

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

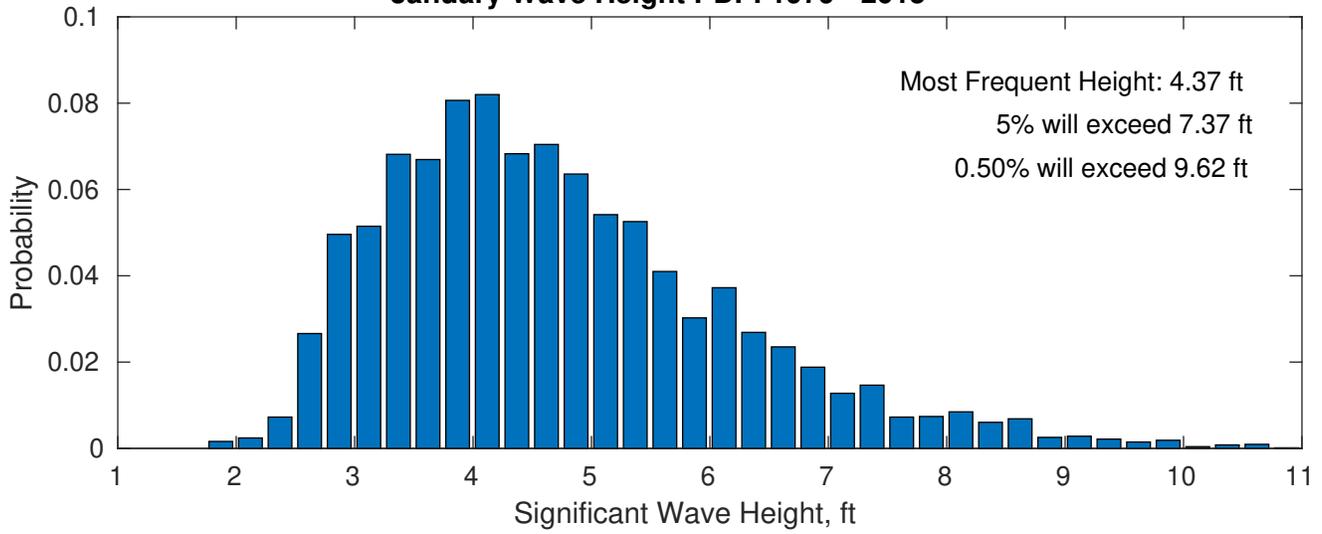
Severe Storms

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

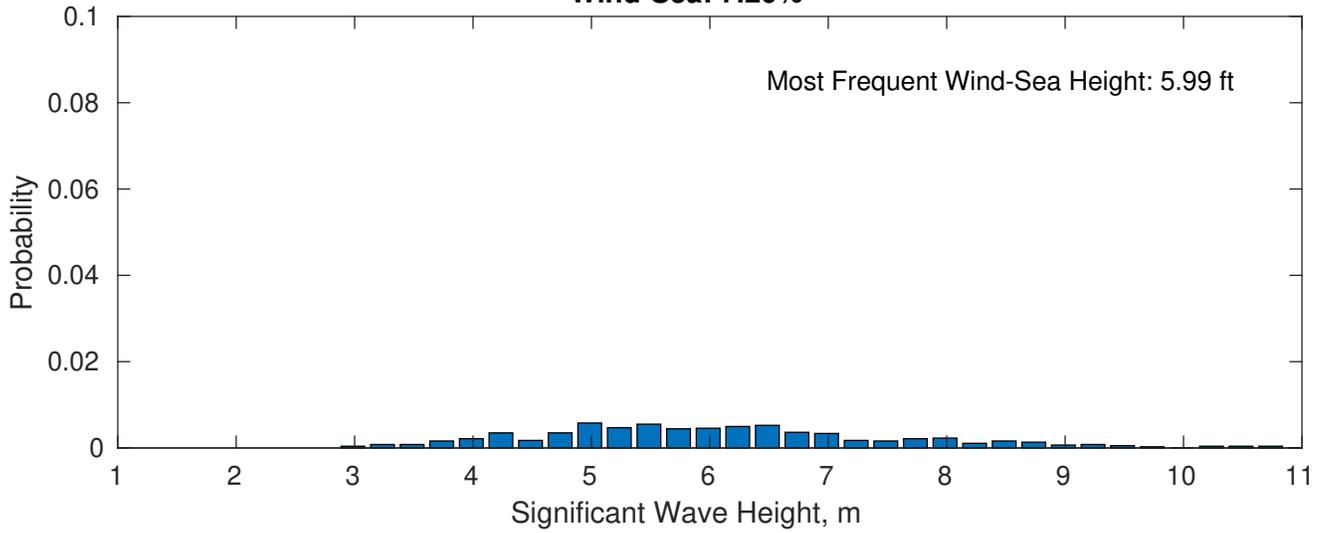




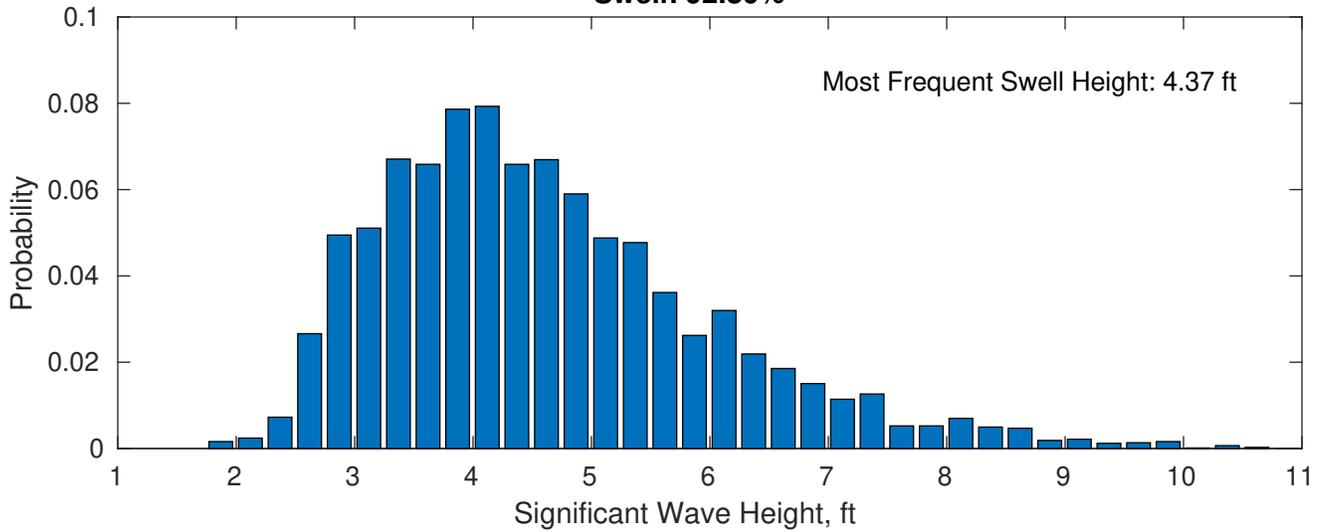
January Wave Height PDF: 1979 - 2015



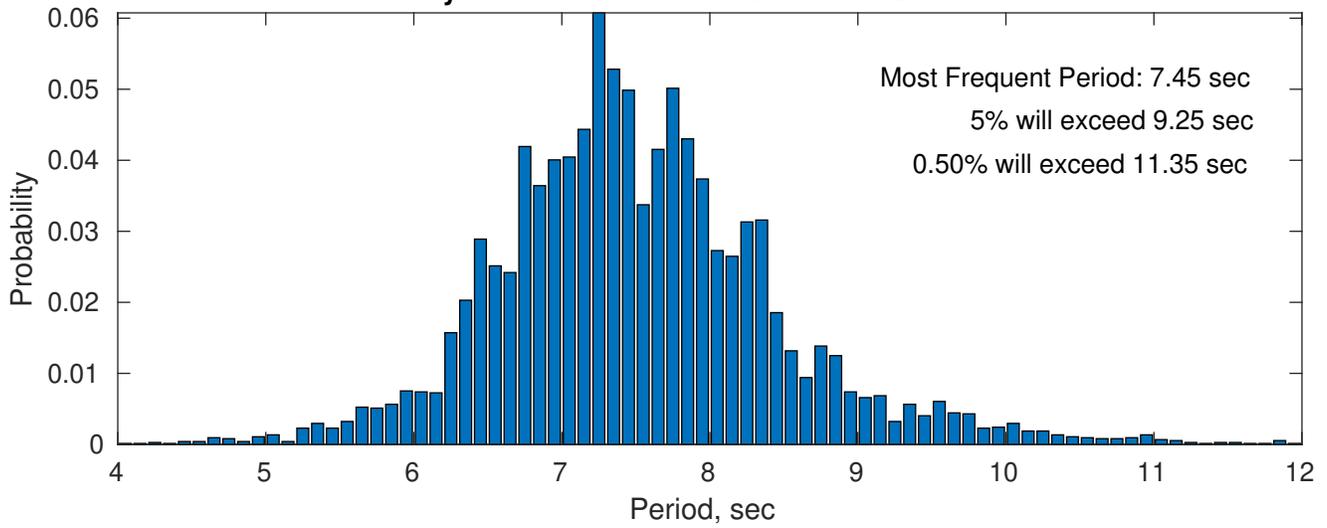
Wind-Sea: 7.20%



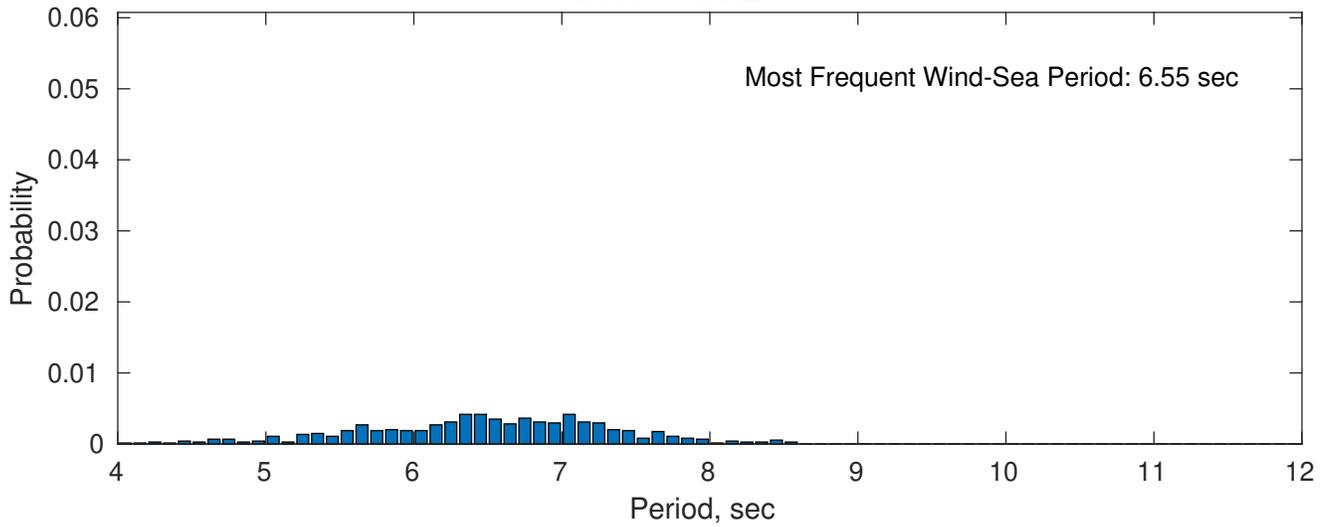
Swell: 92.80%



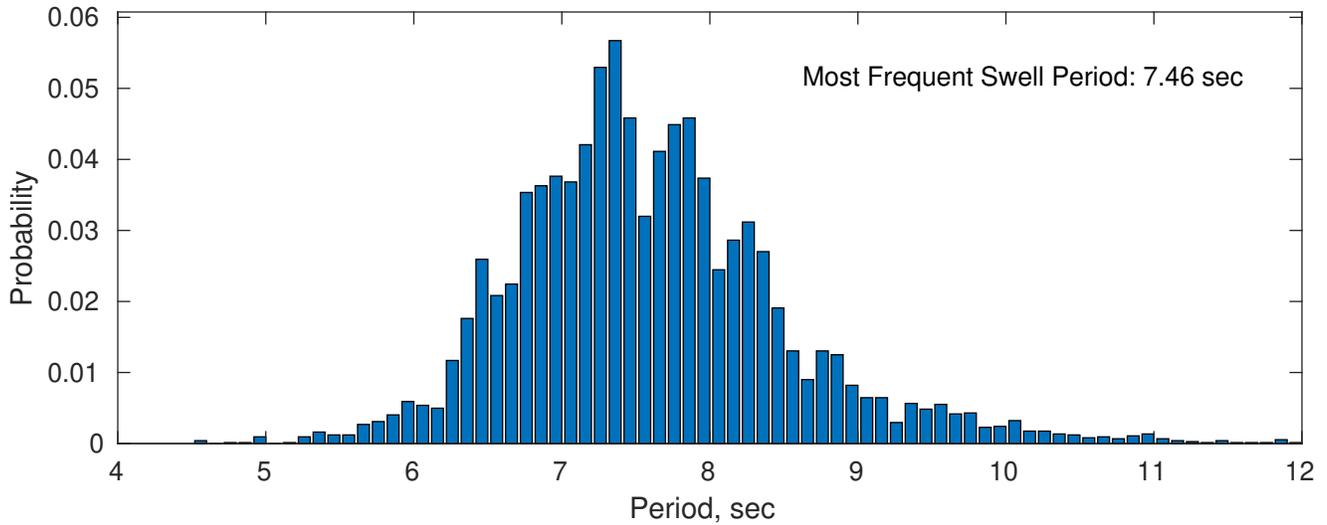
January Peak Wave Period PDF: 1979 - 2015



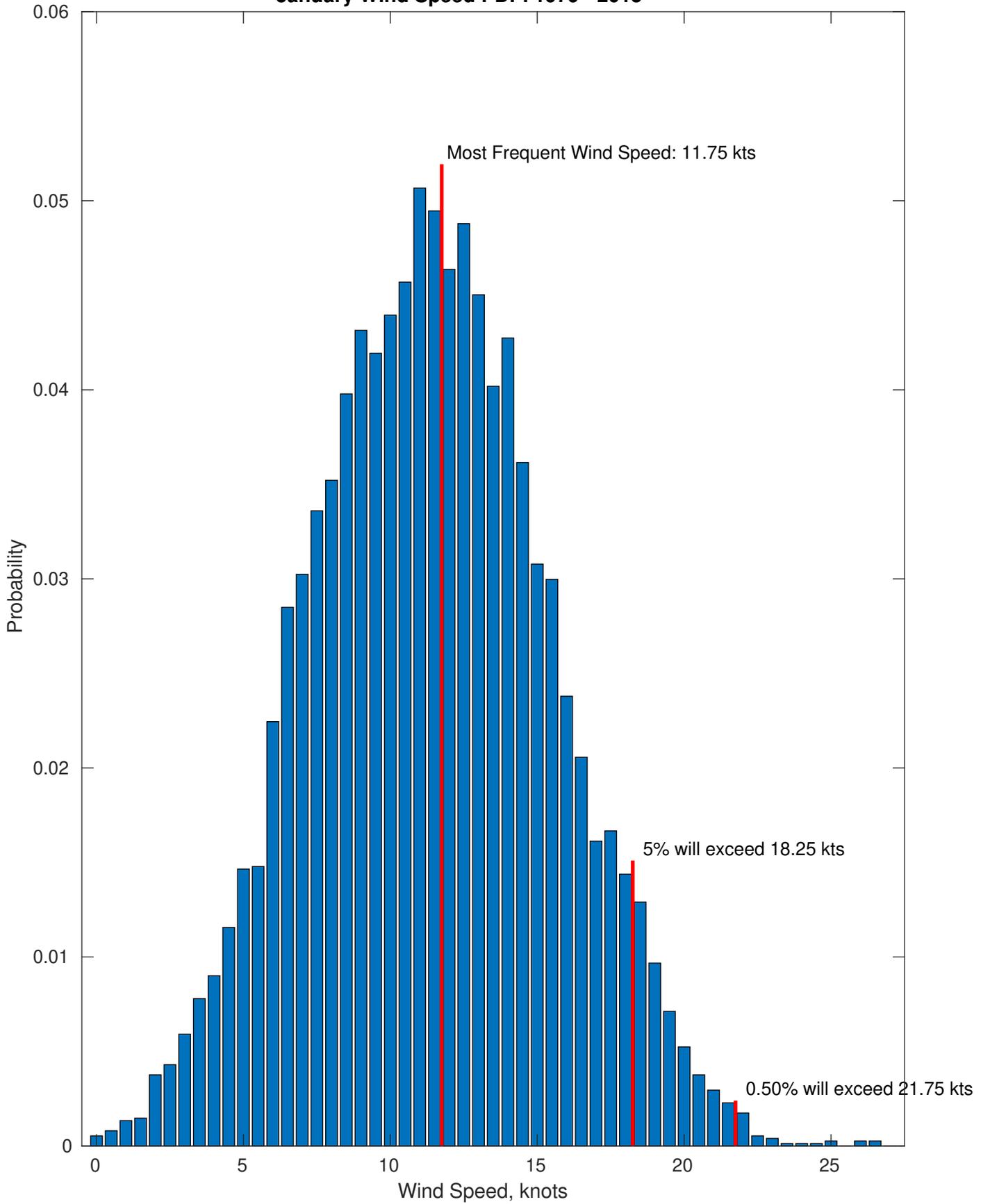
Wind-Sea: 7.20%



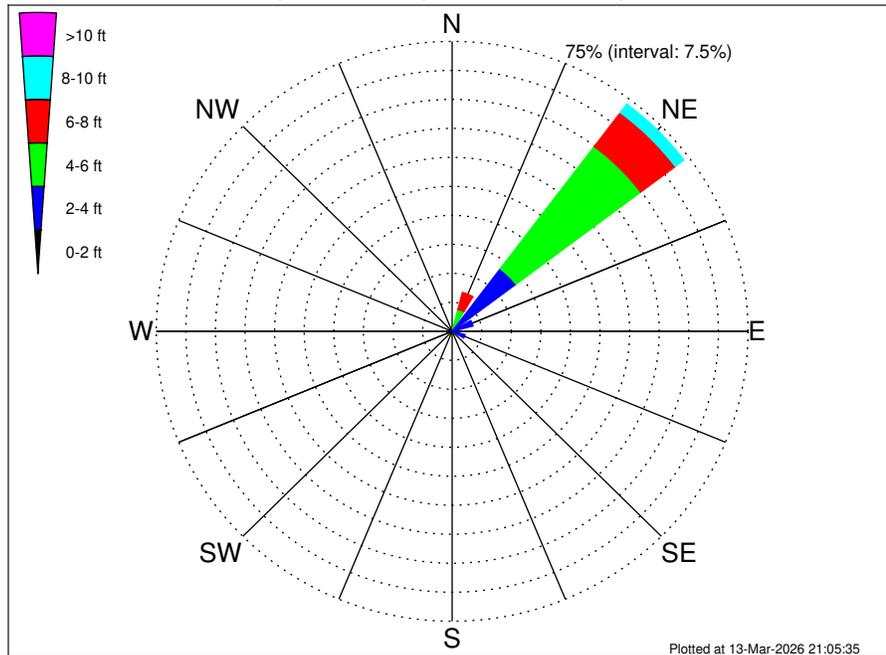
Swell: 92.80%



January Wind Speed PDF: 1979 - 2015



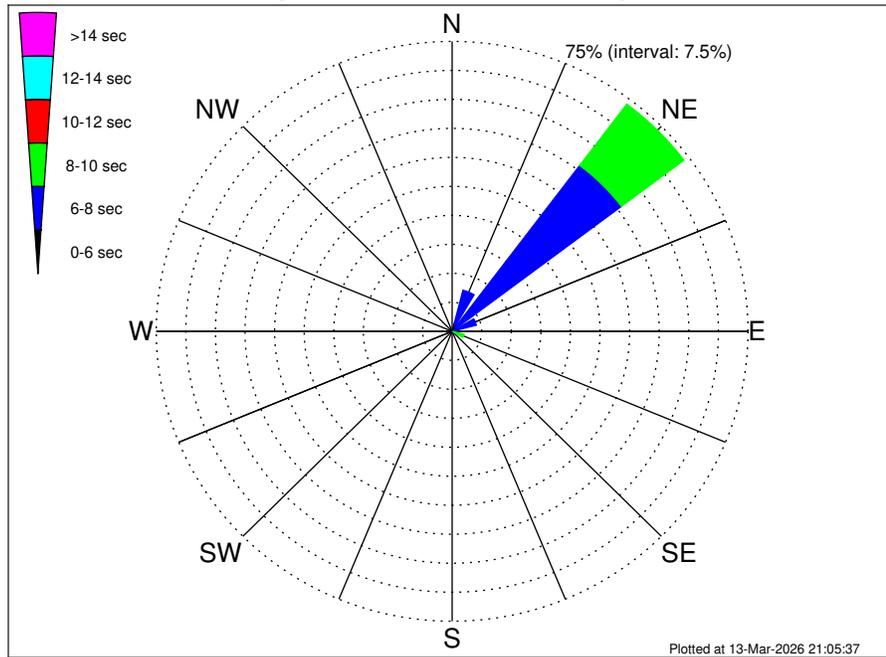
Tanzania MBES Climatological WaveHeight Rose for January: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 ft	•	•	0.01	0.05	•	•	•	•	•	•	•	•	•	•	•	•	0.07
2 - 4 ft	•	0.71	20.24	5.43	1.20	3.40	0.32	0.08	0.08	•	•	•	•	•	•	•	31.47
4 - 6 ft	0.12	5.15	39.60	1.64	0.67	1.25	0.05	0.03	0.19	•	•	•	•	•	0.01	0.01	48.72
6 - 8 ft	0.11	4.53	11.01	0.19	0.01	•	•	•	•	•	•	•	•	•	•	•	15.85
8 - 10 ft	•	0.91	2.73	•	•	•	•	•	•	•	•	•	•	•	•	•	3.64
10 - 12 ft	•	0.20	0.05	•	•	•	•	•	•	•	•	•	•	•	•	•	0.26
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.23	11.51	73.64	7.31	1.88	4.65	0.38	0.11	0.27	•	•	•	•	•	0.01	0.01	100.00

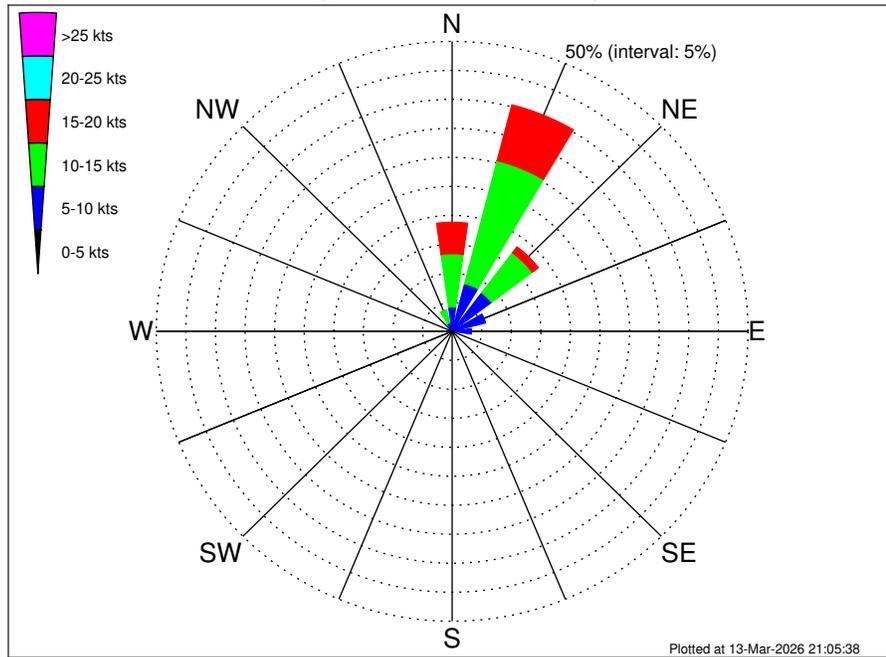
Tanzania MBES Climatological WavePeriod Rose for January: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4 - 6 sec	0.22	1.98	1.26	0.11	0.11	0.05	•	•	•	•	•	•	•	•	0.01	0.01	3.75
6 - 8 sec	0.01	8.99	52.49	6.22	1.02	0.31	•	•	•	•	•	•	•	•	•	•	69.05
8 - 10 sec	•	0.54	19.81	0.95	0.50	2.77	0.22	0.08	0.11	•	•	•	•	•	•	•	24.97
10 - 12 sec	•	•	0.08	0.03	0.23	1.29	0.16	0.03	0.05	•	•	•	•	•	•	•	1.87
12 - 14 sec	•	•	•	•	0.03	0.23	•	•	0.03	•	•	•	•	•	•	•	0.28
14 - 16 sec	•	•	•	•	•	•	•	•	0.05	•	•	•	•	•	•	•	0.05
18 - 20 sec	•	•	•	•	•	•	•	•	0.03	•	•	•	•	•	•	•	0.03
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.23	11.51	73.64	7.31	1.88	4.65	0.38	0.11	0.27	•	•	•	•	•	0.01	0.01	100.00

Tanzania 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	0.01	•	0.01	0.04	0.01	•	0.01	•	•	0.01	•	0.01	•	•	0.01	•	0.13
0 - 5 kts	0.54	0.46	0.77	0.75	0.60	0.38	0.17	0.05	0.08	0.05	0.03	0.05	0.05	0.08	0.17	0.27	4.52
5 - 10 kts	3.68	8.06	7.57	5.03	2.63	1.12	0.27	0.13	0.05	•	•	0.03	0.05	0.13	0.38	1.29	30.43
10 - 15 kts	9.17	21.90	8.62	1.16	0.60	0.24	0.17	0.01	•	•	0.01	•	0.03	0.12	0.60	2.27	44.91
15 - 20 kts	5.40	9.92	1.26	0.05	•	•	•	•	•	•	•	•	0.01	0.07	0.26	1.22	18.20
20 - 25 kts	0.60	0.90	0.01	•	•	•	•	•	•	•	•	•	0.01	•	0.03	0.17	1.73
25 - 30 kts	0.07	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.01	0.08
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	19.48	41.24	18.24	7.03	3.86	1.73	0.63	0.20	0.13	0.07	0.04	0.09	0.16	0.40	1.45	5.24	100.00