

Zanzibar MBES - February

Latitude: 5.47 S Longitude: 41.14 E

Weather Days

Wave Height > 5.0 ft Mean: 11.2 days Range: 4.9 - 17.4 days p50:9 days p75:6 days p90:5 days

Wave Height > 6.5 ft Mean: 3.8 days Range: 0.5 - 7.2 days p50:3.5 days p75:1.5 days p90:0.5 days

Wave Height > 8.0 ft Mean: 0.8 days Range: 0.0 - 2.1 days p50:30 days p75:1 days p90:0.5 days

Wind Speed > 15.0 knots Mean: 7.5 days Range: 3.5 - 11.5 days p50:8 days p75:4.5 days p90:3 days

Wind Speed > 20.0 knots Mean: 0.6 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 - 0.0 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 1.8 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 1.8 times per month
A 2 day or longer window will statistically occur 1.6 times per month
A 3 day or longer window will statistically occur 1.5 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 0.9 times per month
A 3 day or longer window will statistically occur 0.9 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: 15% / 85%

Winds

Mean Speed: 10 - 15 kts

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

Principle Direction, from: NE

Currents

Mean Speed: 0.25-0.50 kts

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

Principle Direction, to: SSE

Weather Days

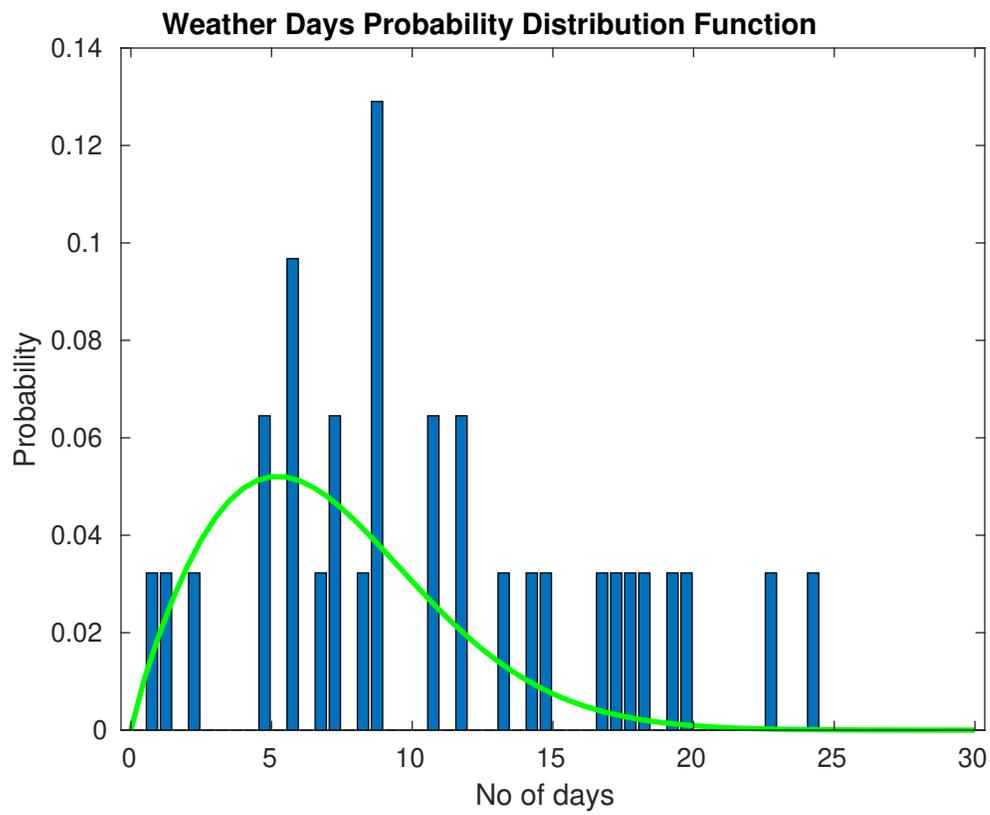
Current Speed > 0.5 knots Mean: 12.4 days Range: 6.4 - 18.4 days p50:14 days p75:9 days p90:3 days

Current Speed > 1.0 knots Mean: 3.0 days Range: 0.0 - 8.2 days p50:1 days p75:1 days p90:1 days

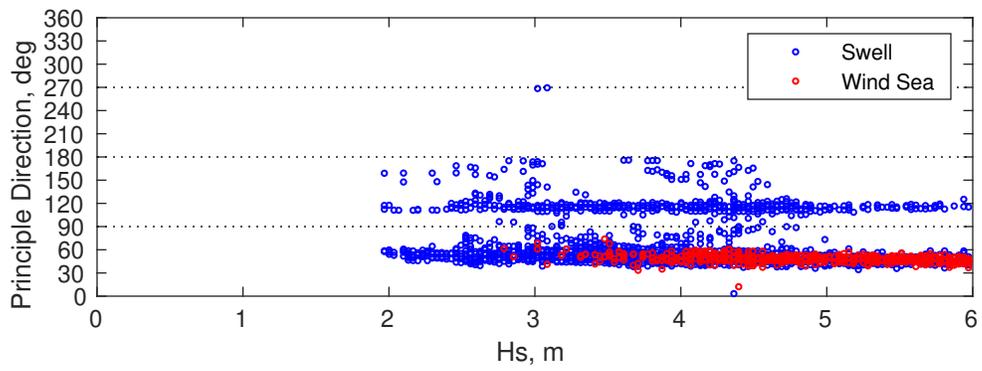
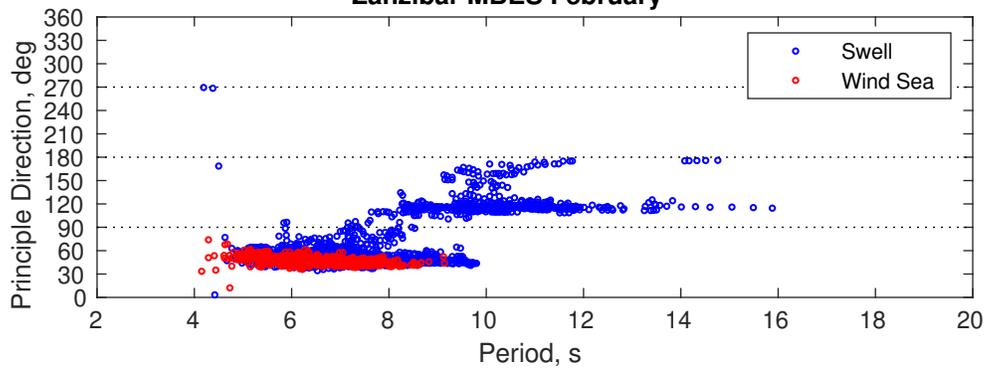
Current Speed > 1.5 knots Mean: 1.9 days Range: 0.0 - 5.7 days p50:1 days p75:1 days p90:1 days

Severe Storms

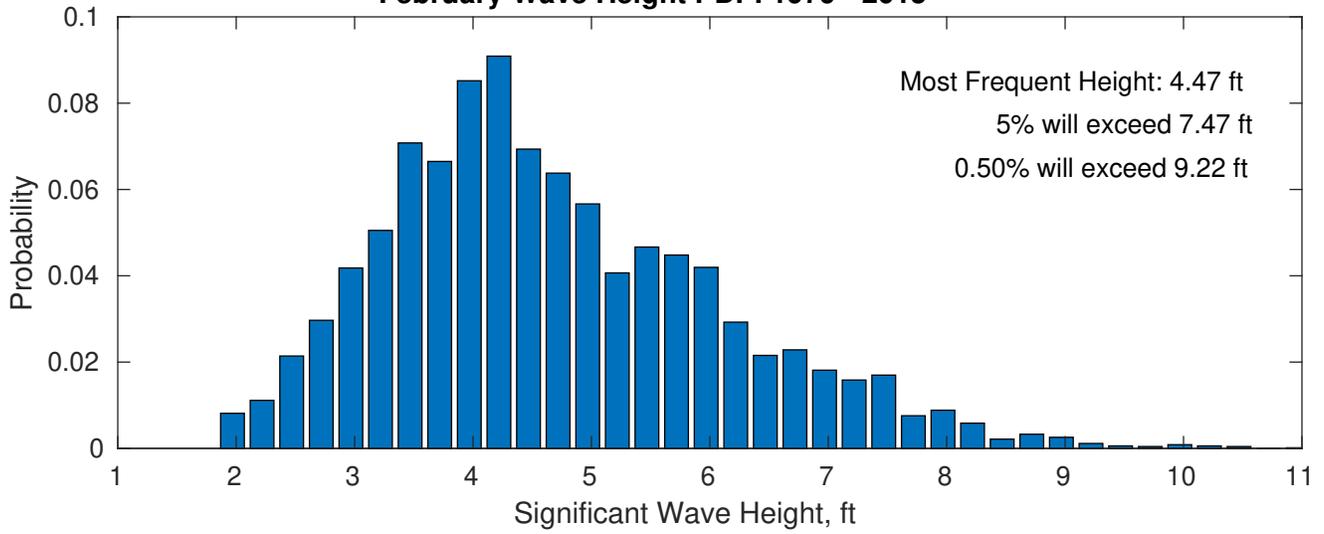
Severe storms with gale force winds and extreme waves are not expected during this month.



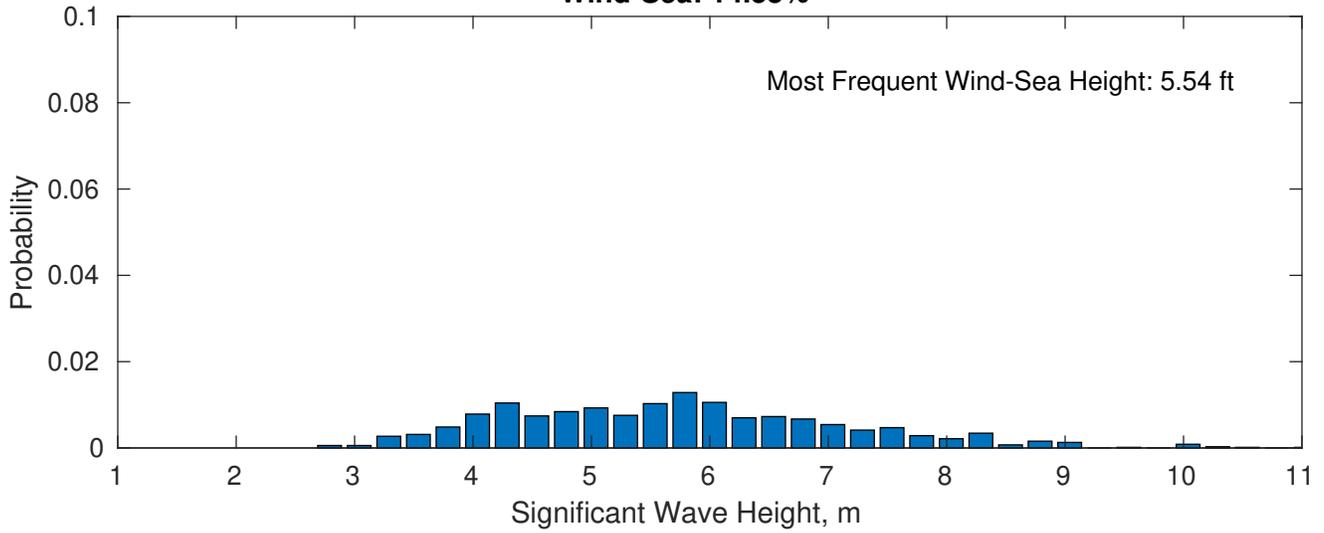
Zanzibar MBES February



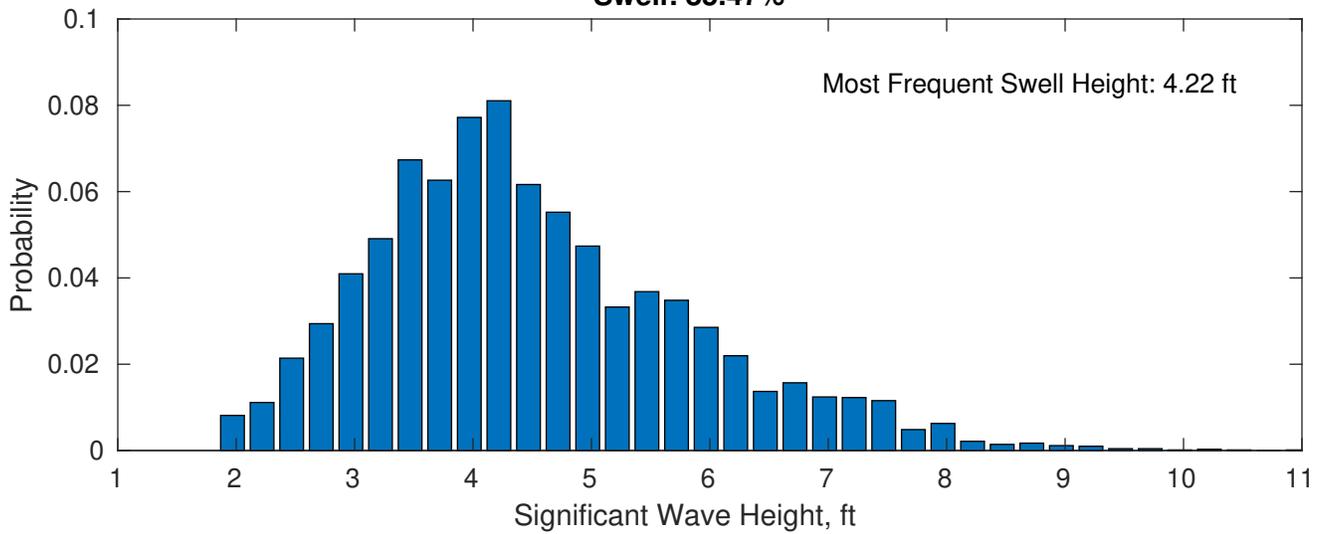
February Wave Height PDF: 1979 - 2015



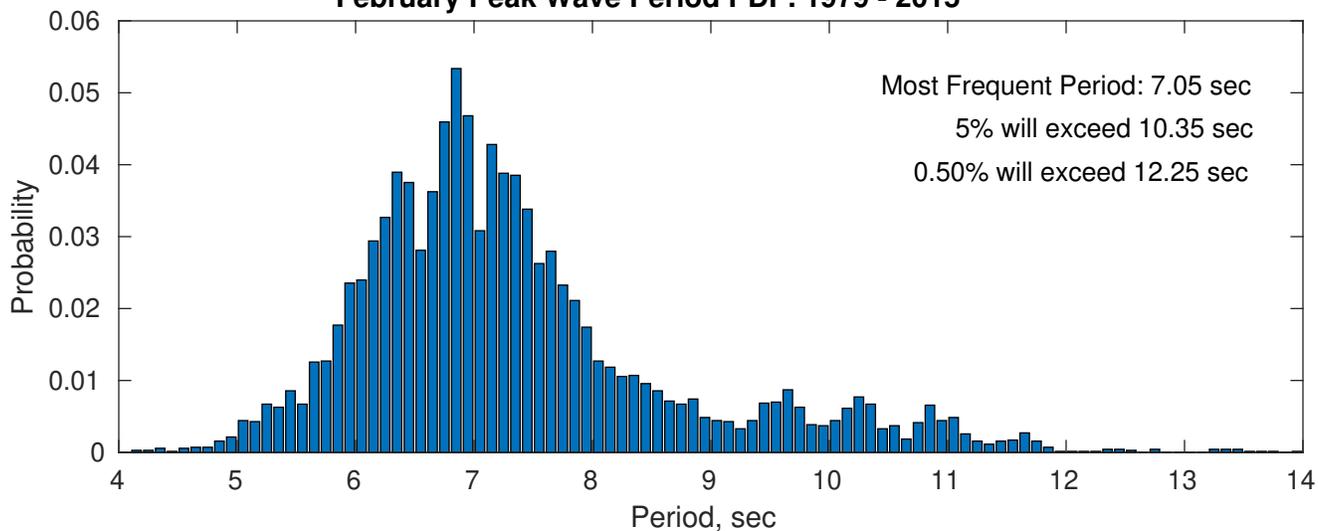
Wind-Sea: 14.53%



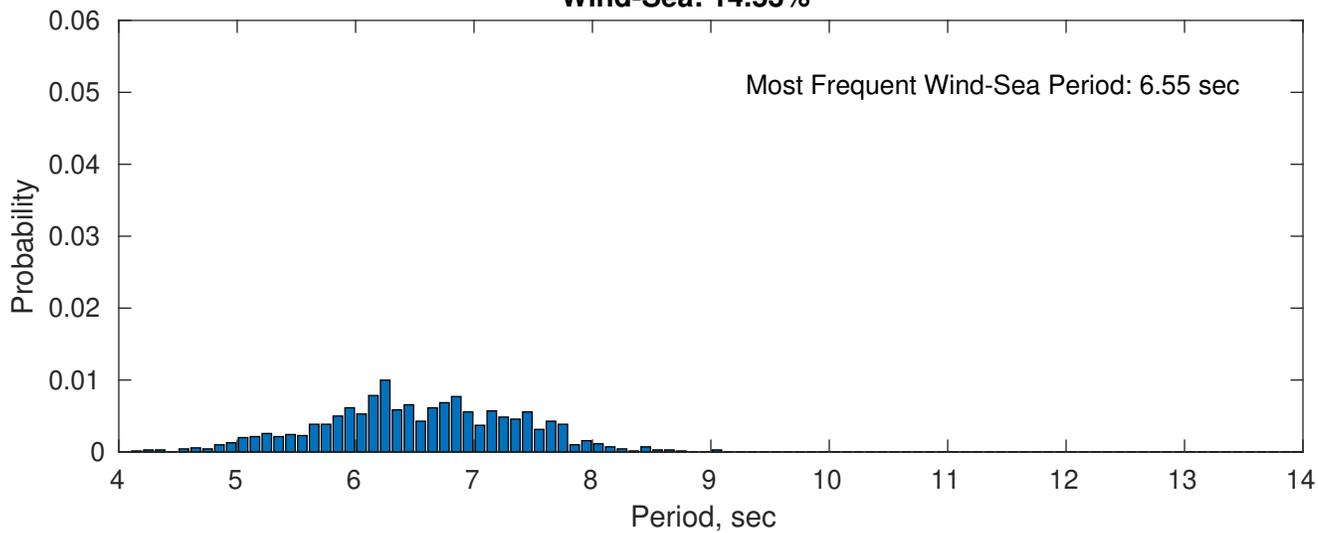
Swell: 85.47%



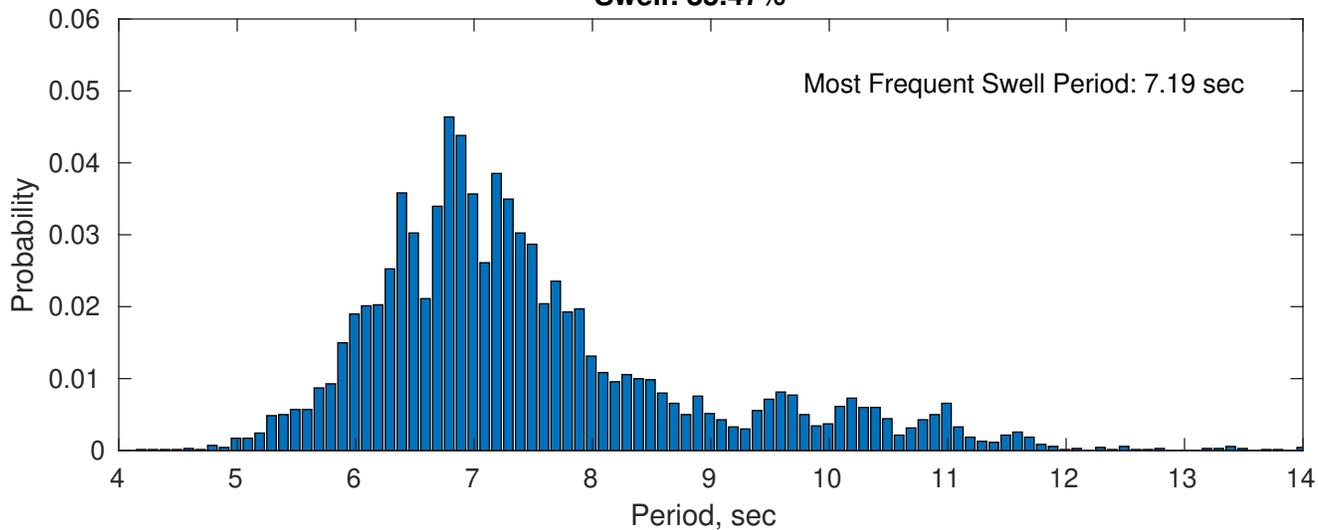
February Peak Wave Period PDF: 1979 - 2015



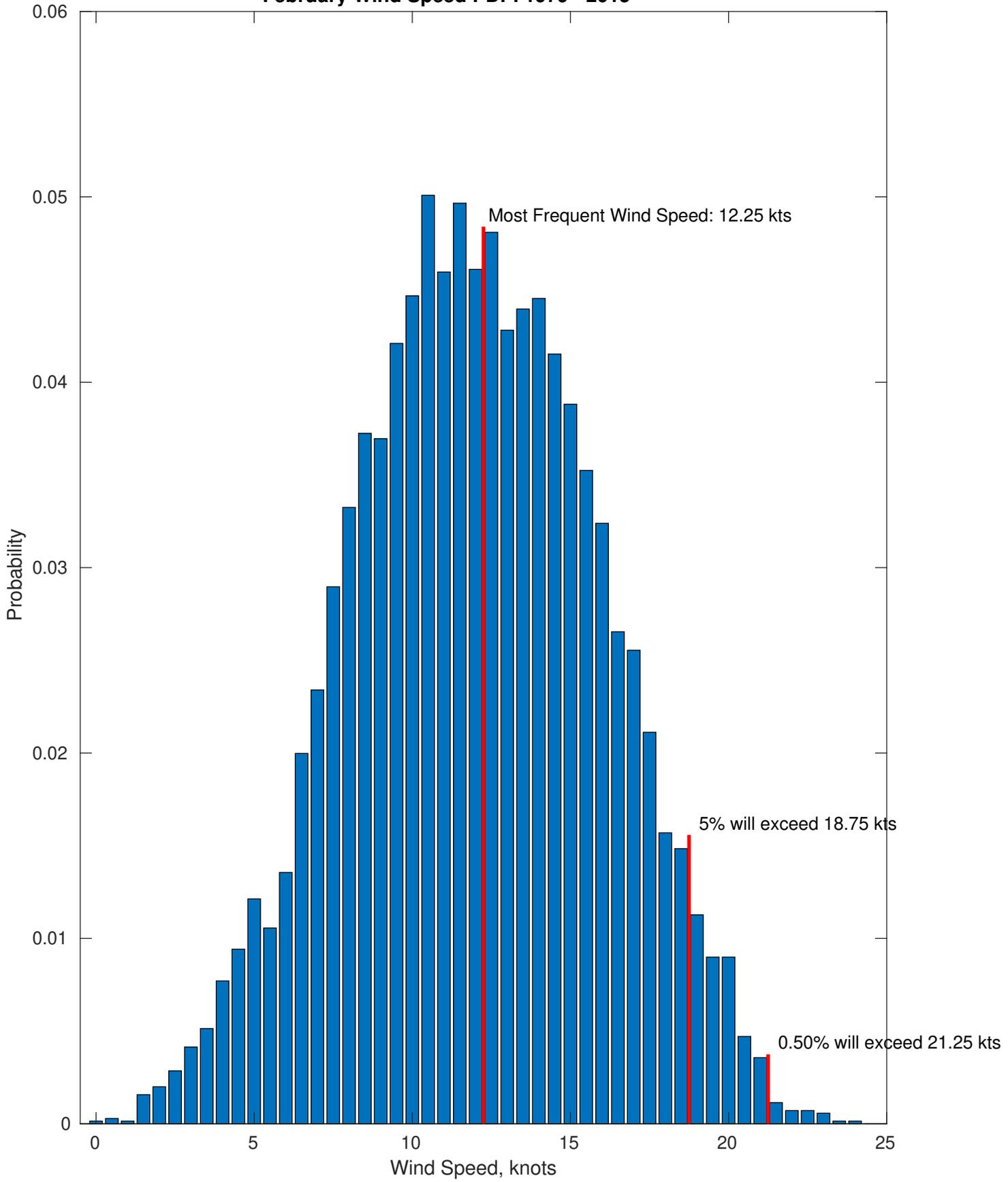
Wind-Sea: 14.53%



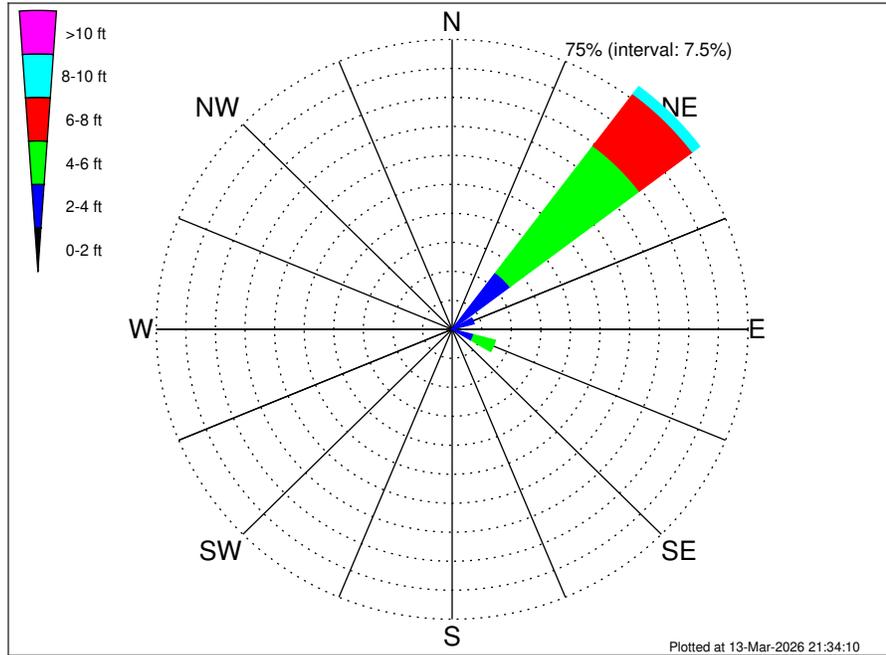
Swell: 85.47%



February Wind Speed PDF: 1979 - 2015



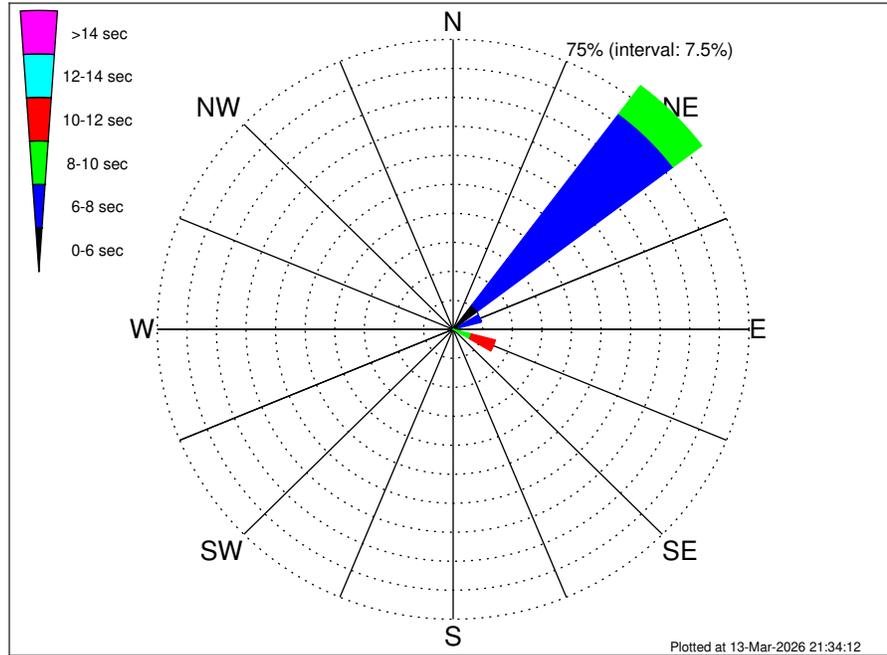
Zanzibar MBES Climatological WaveHeight Rose for February: 1979 - 2015



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	•	•	•	0.03	•	0.06	•	0.03	•	•	•	•	•	•	•	•	0.11
2 - 4 ft	•	0.01	18.34	5.72	0.26	5.59	0.29	0.31	0.19	•	•	•	0.03	•	•	•	30.74
4 - 6 ft	0.01	0.01	41.08	1.77	0.36	5.66	0.21	0.20	0.09	•	•	•	•	•	•	•	49.40
6 - 8 ft	•	•	16.84	0.06	•	0.19	0.01	•	•	•	•	•	•	•	•	•	17.09
8 - 10 ft	•	•	2.35	•	•	•	•	•	•	•	•	•	•	•	•	•	2.35
10 - 12 ft	•	•	0.30	•	•	•	•	•	•	•	•	•	•	•	•	•	0.30
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.01	0.03	78.91	7.58	0.61	11.50	0.51	0.54	0.27	•	•	•	0.03	•	•	•	100.00

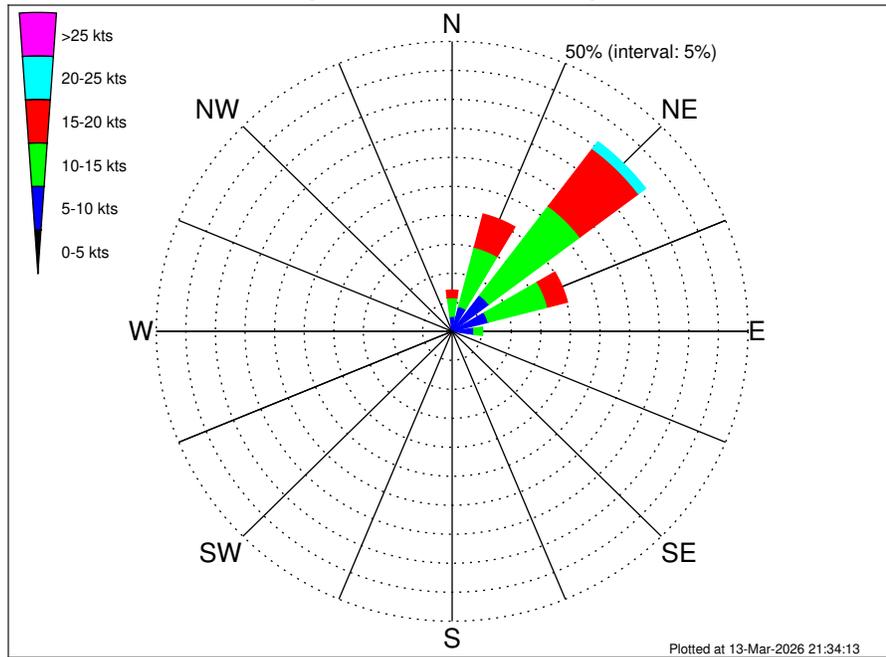
Zanzibar MBES Climatological WavePeriod Rose for February: 1979 - 2015



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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4 - 6 sec	0.01	0.03	7.85	1.71	0.06	•	•	0.01	•	•	•	•	0.03	•	•	•	9.70
6 - 8 sec	•	•	62.00	5.65	0.30	0.09	•	•	•	•	•	•	•	•	•	•	68.04
8 - 10 sec	•	•	9.06	0.21	0.26	4.69	0.27	0.27	•	•	•	•	•	•	•	•	14.77
10 - 12 sec	•	•	•	•	•	6.28	0.21	0.26	0.19	•	•	•	•	•	•	•	6.93
12 - 14 sec	•	•	•	•	•	0.36	0.03	•	•	•	•	•	•	•	•	•	0.39
14 - 16 sec	•	•	•	•	•	0.09	•	•	0.09	•	•	•	•	•	•	•	0.17
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.01	0.03	78.91	7.58	0.61	11.50	0.51	0.54	0.27	•	•	•	0.03	•	•	•	100.00

Zanzibar 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	•	0.01	•	•	0.04
0 - 5 kts	0.37	0.37	0.47	0.49	0.50	0.29	0.16	0.11	0.09	0.03	0.07	0.01	0.09	0.03	0.07	0.16	3.30
5 - 10 kts	2.23	4.07	7.31	5.81	3.17	1.07	0.47	0.29	0.09	0.01	0.11	0.03	0.04	0.07	0.23	0.83	25.81
10 - 15 kts	3.22	10.56	19.26	10.40	1.48	0.13	0.06	0.03	0.03	0.03	•	0.03	0.04	•	0.11	0.34	45.73
15 - 20 kts	1.28	5.89	12.40	3.44	•	•	•	•	•	•	•	•	0.01	•	•	0.01	23.05
20 - 25 kts	0.06	0.46	1.50	0.06	•	•	•	•	•	•	•	•	•	•	•	•	2.07
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	7.16	21.35	40.94	20.19	5.17	1.48	0.68	0.43	0.20	0.07	0.19	0.09	0.19	0.11	0.41	1.34	100.00