

Liberia MBES - February

Latitude: 4.50 N Longitude: 9.00 W

Weather Days

Wave Height > 4.0 ft Mean: 0.7 days Range: 0.0 - 5.2 days p50:11.5 days p75:7 days p90:2.5 days
Wave Height > 5.0 ft Mean: 0.0 days Range: 0.0 - 1.5 days p50:5 days p75:1.5 days p90:1 days
Wave Height > 6.0 ft Mean: 0.0 days Range: 0.0 - 0.5 days p50:30 days p75:30 days p90:30 days

Wind Speed > 10.0 knots Mean: 2.8 days Range: 1.4 - 4.2 days p50:3 days p75:2 days p90:1.5 days
Wind Speed > 15.0 knots Mean: 0.1 days Range: 0.0 - 0.2 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

Working Window

Wave Height < 4.0 ft	A 1 day or longer window will statistically occur 2.7 times per month A 2 day or longer window will statistically occur 2.4 times per month A 3 day or longer window will statistically occur 2.0 times per month
Wave Height < 5.0 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
Wave Height < 6.0 ft	A 1 day or longer window will statistically occur 0.1 times per month A 2 day or longer window will statistically occur 0.1 times per month A 3 day or longer window will statistically occur 0.1 times per month

Waves

Mean Height: 2 - 4 ft
The wave heights will occasionally reach 6 - 8 ft, but rarely higher.
Mean Period: 12 - 14 sec
The wave periods will occasionally reach 22 - 24 sec, but rarely longer.
Principle Direction, from: SSW
WindSea/Swell: 0% / 100%

Winds

Mean Speed: 5 - 10 kts
The winds will occasionally reach 10 - 15 kts, but rarely greater.
Principle Direction, from: WSW

Currents

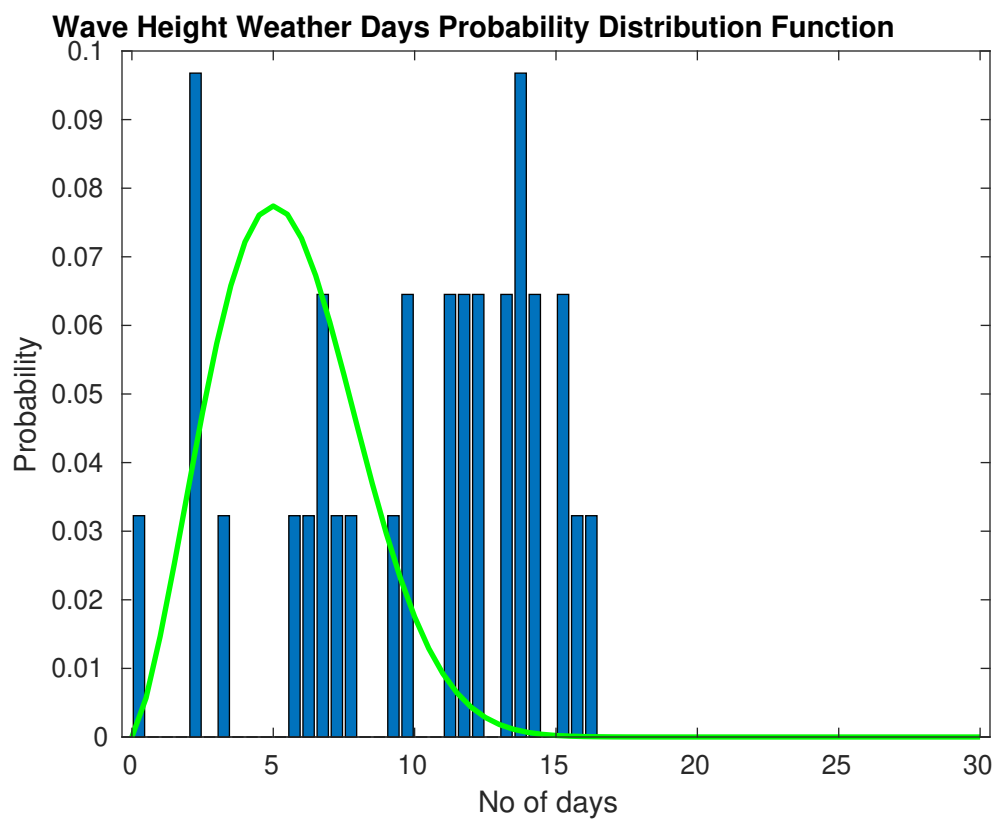
Mean Speed: 0.50-0.75 kts
The currents will occasionally reach 1.75-2.00 kts, but rarely greater.
Principle Direction, to: ESE

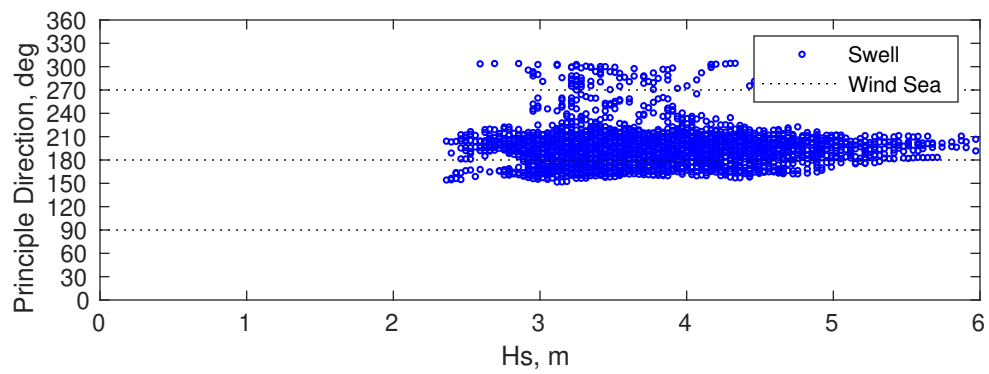
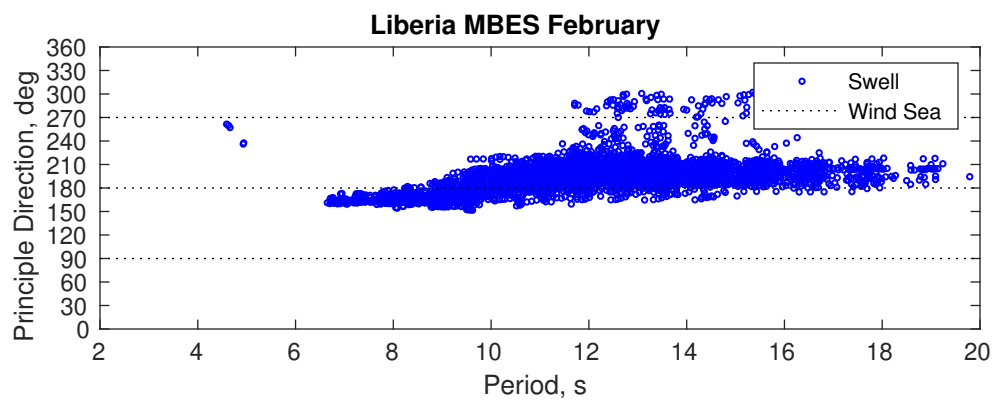
Weather Days

Current Speed > 0.5 knots Mean: 19.9 days Range: 14.7 - 25.1 days p50:22 days p75:16 days p90:13 days
Current Speed > 1.0 knots Mean: 8.8 days Range: 3.0 - 14.6 days p50:11 days p75:4 days p90:1 days
Current Speed > 1.5 knots Mean: 2.8 days Range: 0.0 - 7.4 days p50:2 days p75:1 days p90:1 days

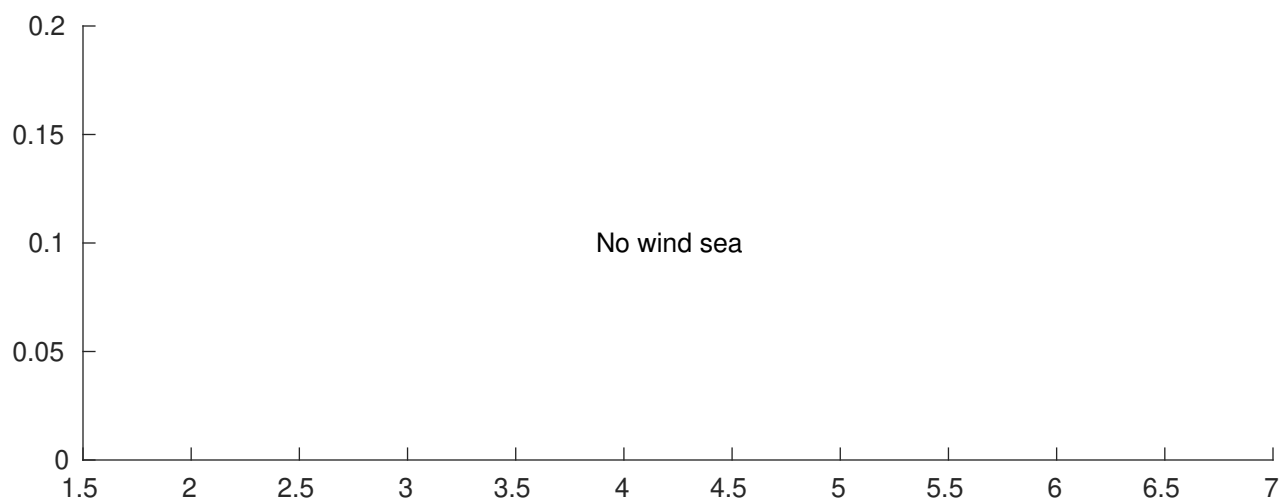
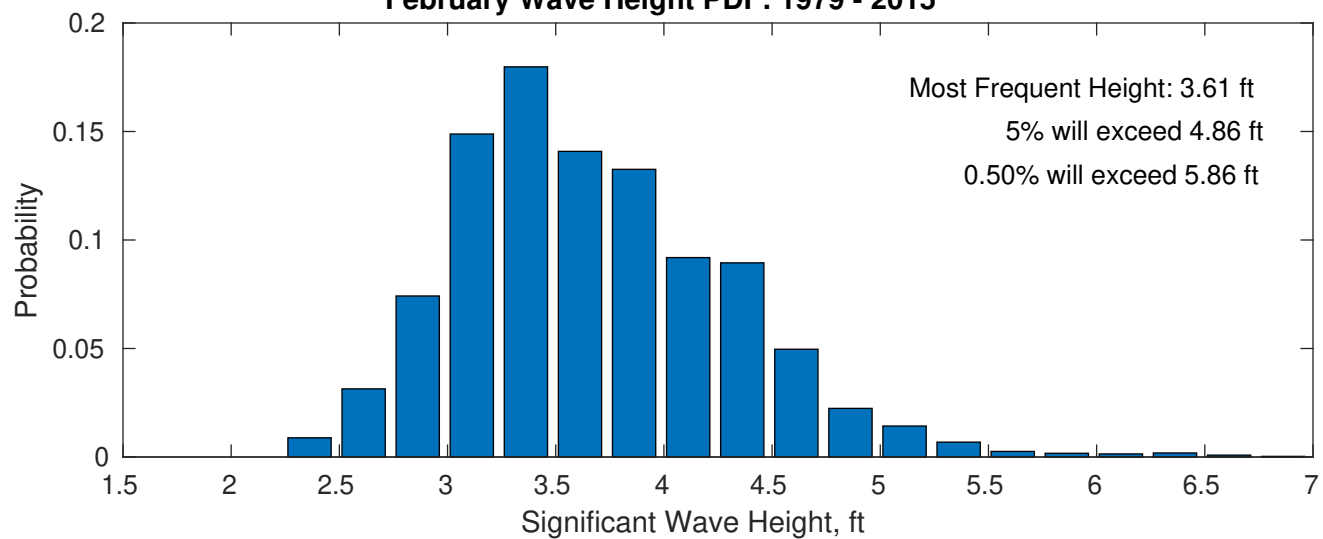
Severe Storms

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

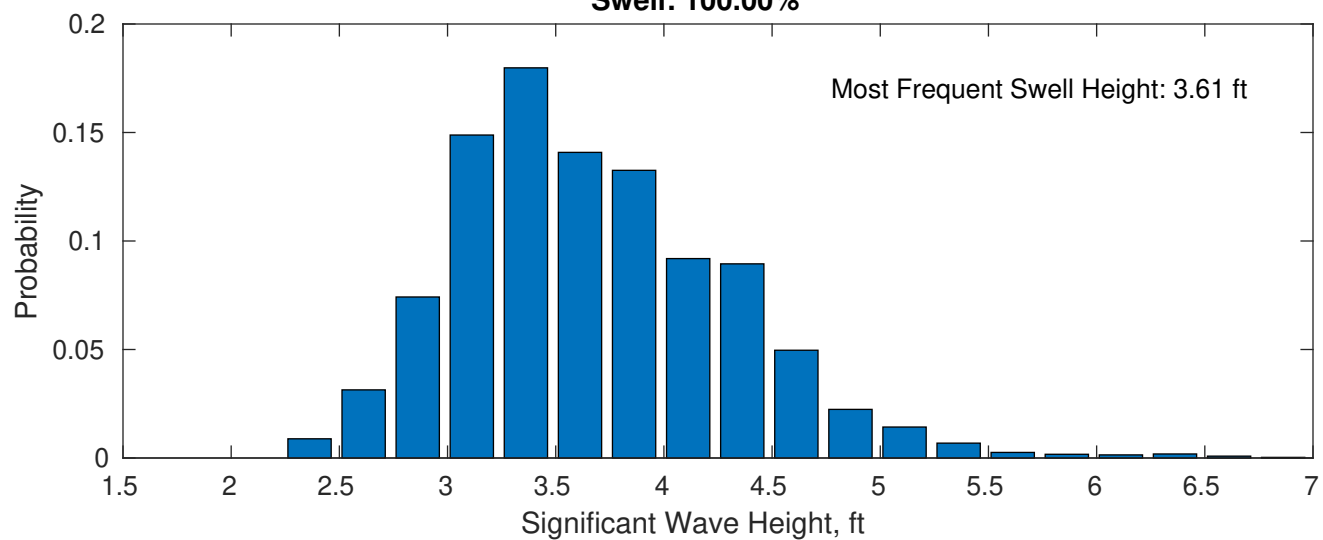




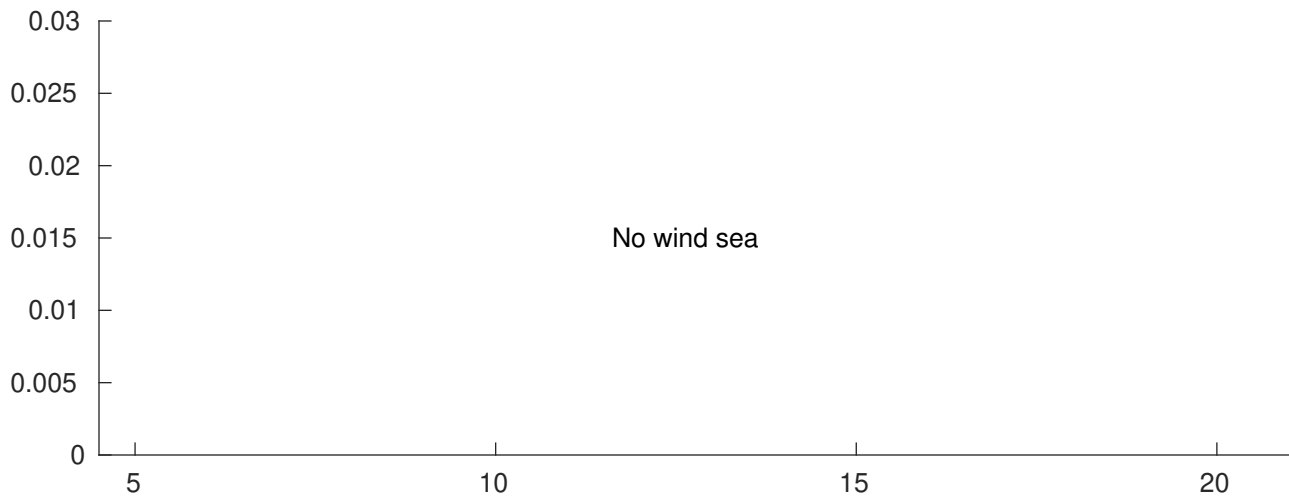
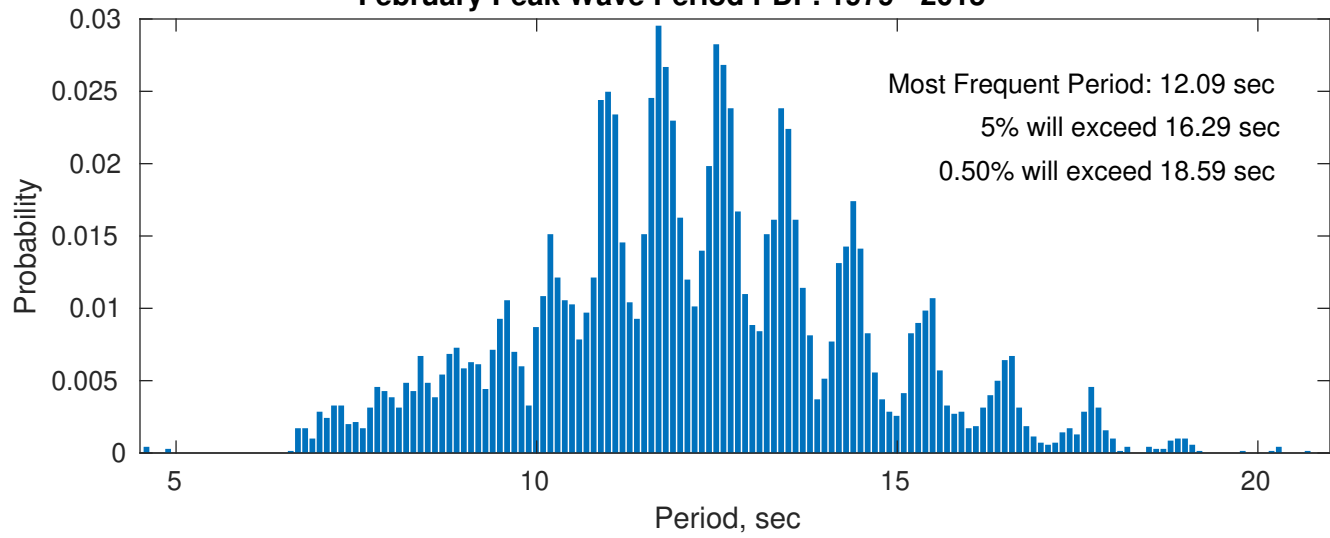
February Wave Height PDF: 1979 - 2015



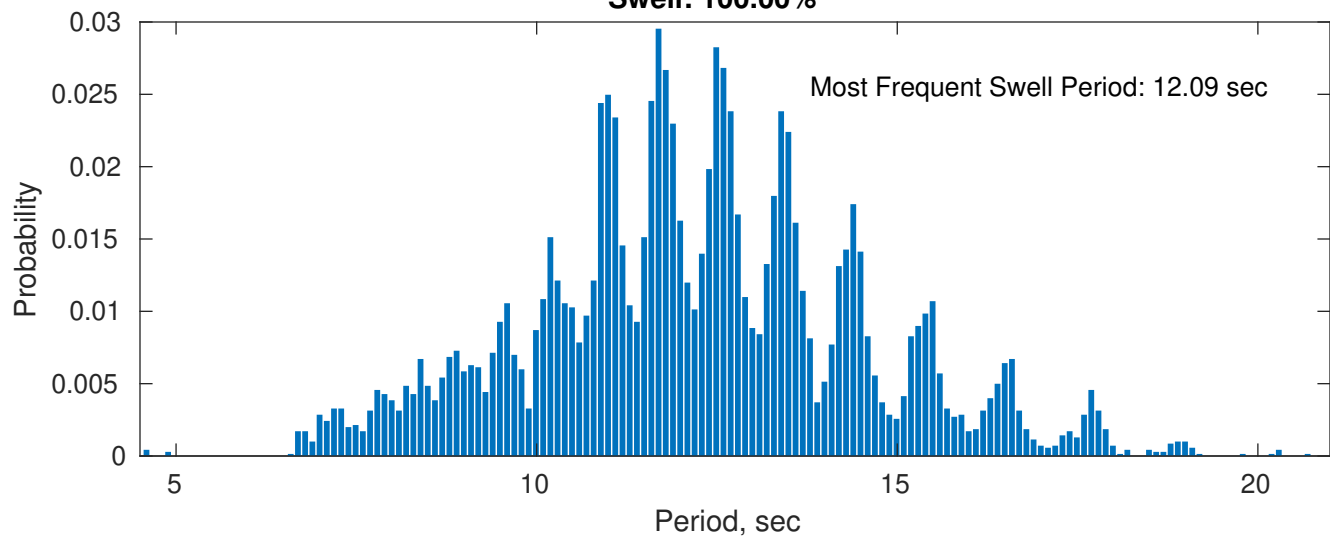
Swell: 100.00%



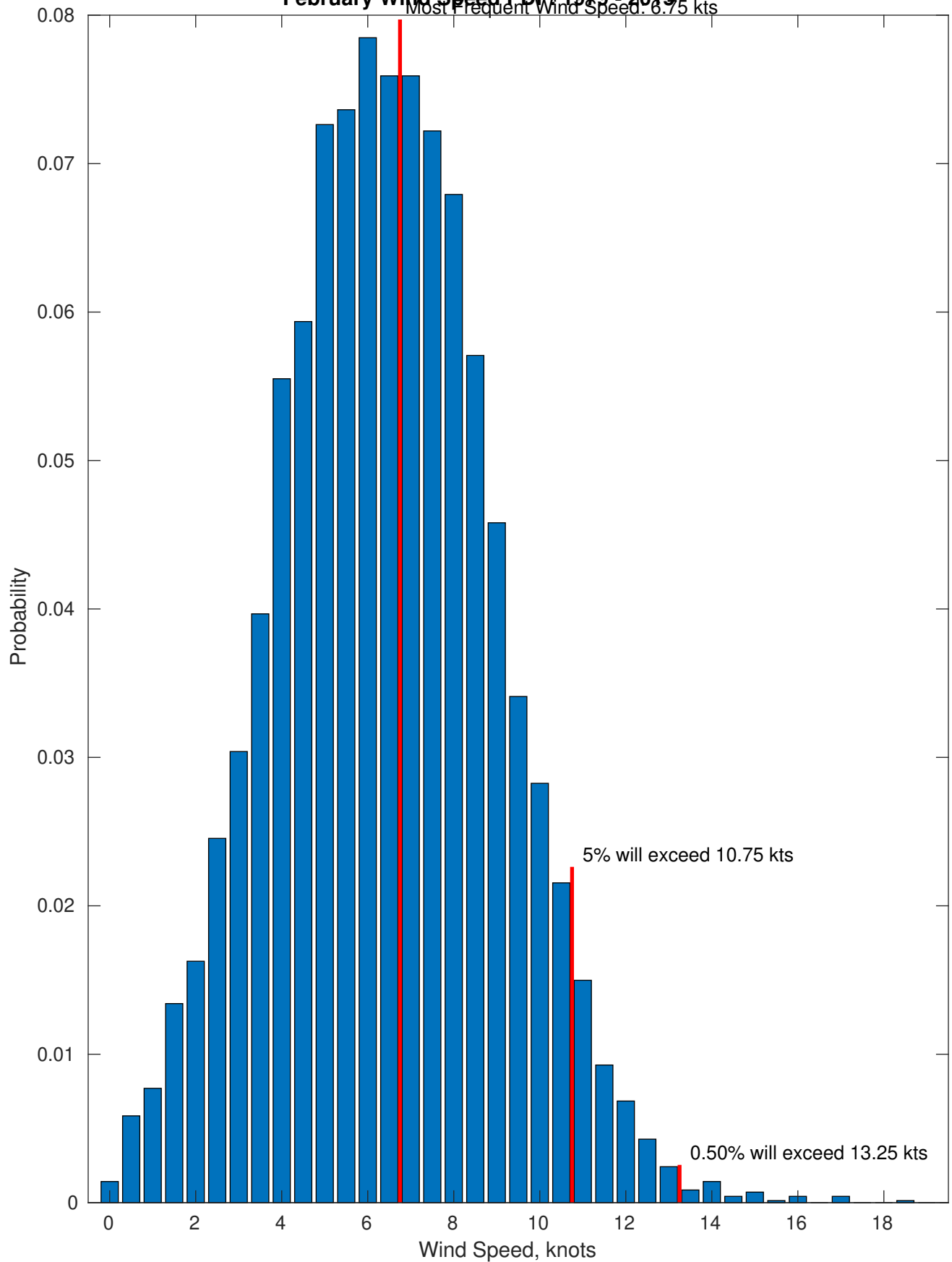
February Peak Wave Period PDF: 1979 - 2015



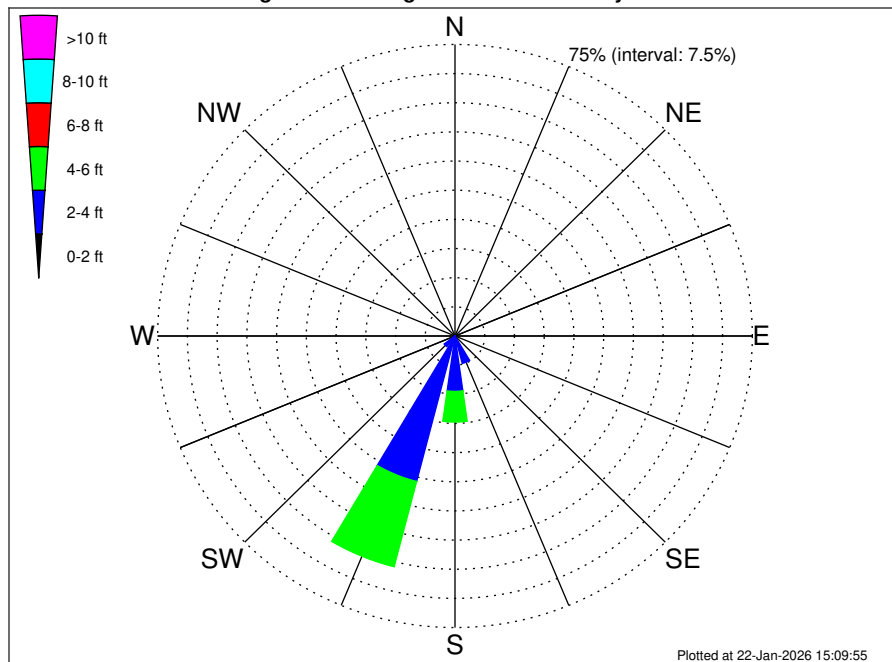
Swell: 100.00%



February Wind Speed PDF: 1979 - 2015



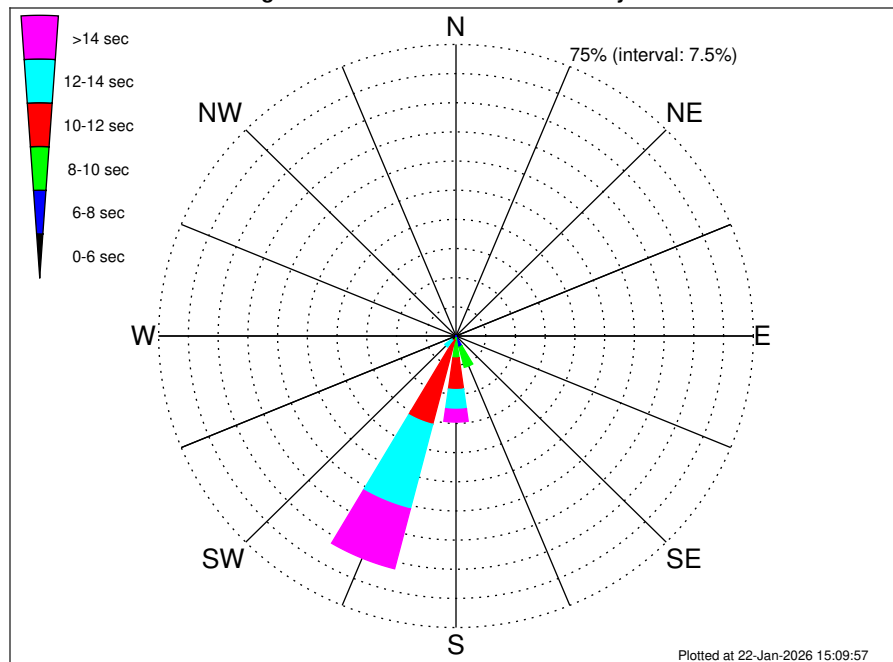
Liberia MBES Climatological WaveHeight Rose for February: 1979 - 2015



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	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2 - 4 ft	.	.	.	.	.	.	.	7.29	14.24	38.66	3.42	0.83	0.44	0.84	0.03	.	65.75
4 - 6 ft	.	.	.	.	.	.	.	1.84	7.91	22.66	1.03	0.01	0.06	0.16	0.04	.	33.70
6 - 8 ft	.	.	.	.	.	.	.	.	.	0.54	.	.	.	.	.	.	0.54
8 - 10 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
10 - 12 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12 - 14 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14 - 16 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16 - 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
> 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	.	.	.	.	.	.	.	9.13	22.15	61.86	4.45	0.84	0.50	1.00	0.07	.	100.00

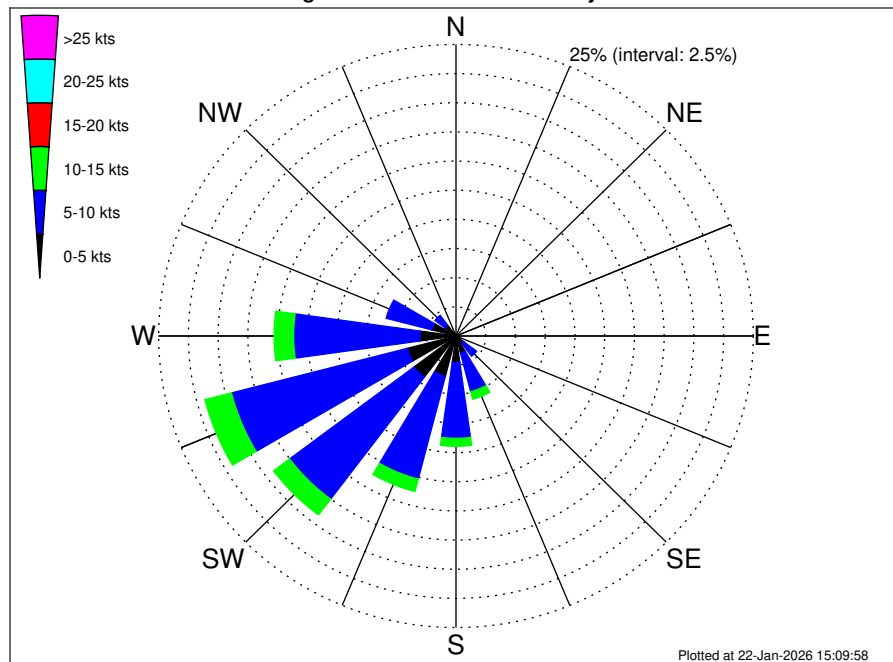
Liberia MBES Climatological WavePeriod Rose for February: 1979 - 2015



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	0.03	•	•	•	0.07
6 - 8 sec	•	•	•	•	•	•	•	2.98	0.56	•	•	•	•	•	•	•	3.54
8 - 10 sec	•	•	•	•	•	•	•	5.35	5.12	1.14	0.04	•	•	•	•	•	11.66
10 - 12 sec	•	•	•	•	•	•	•	0.57	8.11	22.35	1.37	0.09	0.01	0.06	•	•	32.55
12 - 14 sec	•	•	•	•	•	•	•	0.14	5.09	22.49	2.13	0.51	0.31	0.41	•	•	31.09
14 - 16 sec	•	•	•	•	•	•	•	0.09	2.35	11.13	0.71	0.19	0.14	0.43	•	•	15.04
18 - 20 sec	•	•	•	•	•	•	•	•	0.84	4.20	0.14	0.03	•	0.10	0.07	•	5.38
22 - 24 sec	•	•	•	•	•	•	•	•	0.07	0.56	0.04	•	•	•	•	•	0.67
Total	•	•	•	•	•	•	•	9.13	22.15	61.86	4.45	0.84	0.50	1.00	0.07	•	100.00

Liberia 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	0.07	0.07	0.01	0.04	0.03	0.01	0.09	0.06	0.09	0.04	0.03	0.03	0.06	0.04	0.01	0.04	0.73
0 - 5 kts	0.33	0.14	0.20	0.17	0.26	0.34	0.73	1.47	2.20	3.52	4.39	4.20	2.97	2.05	1.14	0.57	24.69
5 - 10 kts	0.16	0.04	0.03	0.03	0.11	0.30	1.36	3.41	6.49	9.10	13.10	15.28	10.63	3.97	1.06	0.30	65.37
10 - 15 kts	0.01	.	0.03	.	0.01	0.03	0.61	0.66	0.68	1.10	1.68	2.30	1.64	0.27	.	.	9.03
15 - 20 kts	.	.	.	.	.	.	0.07	0.10	.	.	.	.	0.01	.	.	.	0.19
20 - 25 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25 - 30 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30 - 35 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
35 - 40 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
40 - 45 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
45 - 50 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	0.57	0.26	0.27	0.24	0.41	0.68	2.85	5.69	9.46	13.77	19.21	21.80	15.31	6.34	2.21	0.91	100.00