

Liberia MBES - May

Latitude: 4.50 N Longitude: 9.00 W

Weather Days

Wave Height > 4.0 ft Mean: 6.8 days Range: 5.5 - 8.1 days p50:29.5 days p75:28 days p90:27 days
Wave Height > 5.0 ft Mean: 1.8 days Range: 0.0 - 5.3 days p50:19 days p75:16.5 days p90:16 days
Wave Height > 6.0 ft Mean: 0.2 days Range: 0.0 - 3.9 days p50:7 days p75:4.5 days p90:3 days

Wind Speed > 10.0 knots Mean: 3.4 days Range: 1.6 - 5.1 days p50:3.5 days p75:2.5 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 0.4 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 0.0 times per month
Wave Height < 5.0 ft	A 1 day or longer window will statistically occur 2.9 times per month A 2 day or longer window will statistically occur 2.1 times per month A 3 day or longer window will statistically occur 1.2 times per month
Wave Height < 6.0 ft	A 1 day or longer window will statistically occur 3.1 times per month A 2 day or longer window will statistically occur 2.7 times per month A 3 day or longer window will statistically occur 2.4 times per month

Waves

Mean Height: 4 - 6 ft
The wave heights will occasionally reach 8 - 10 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: SSE

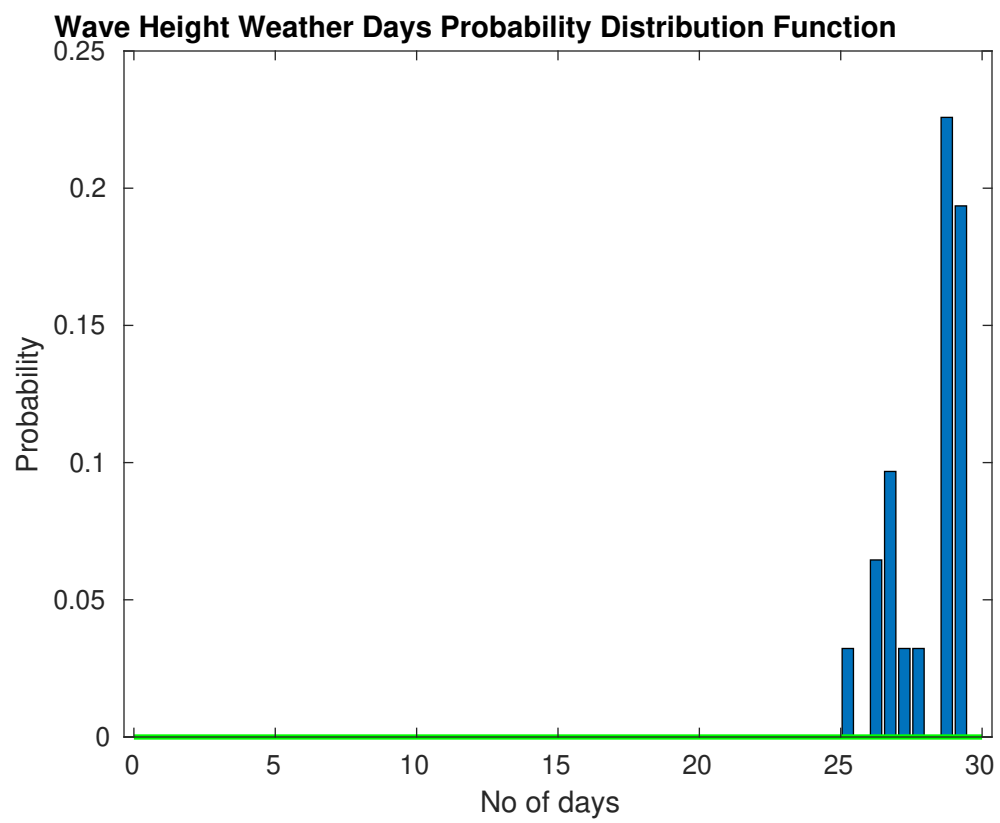
Currents

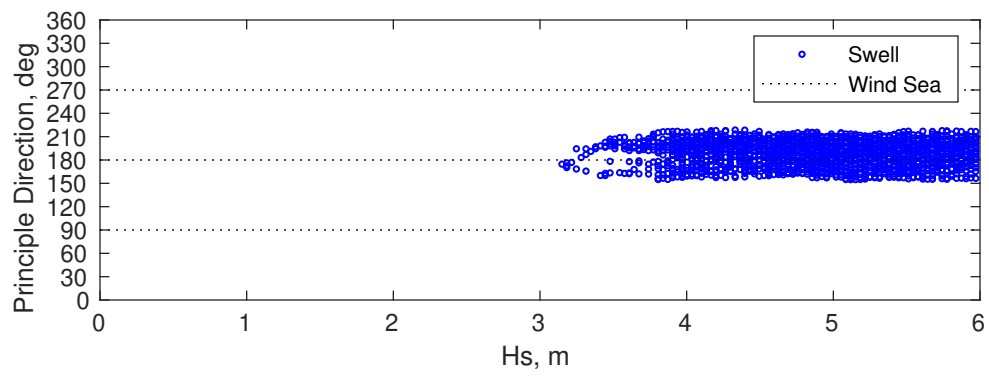
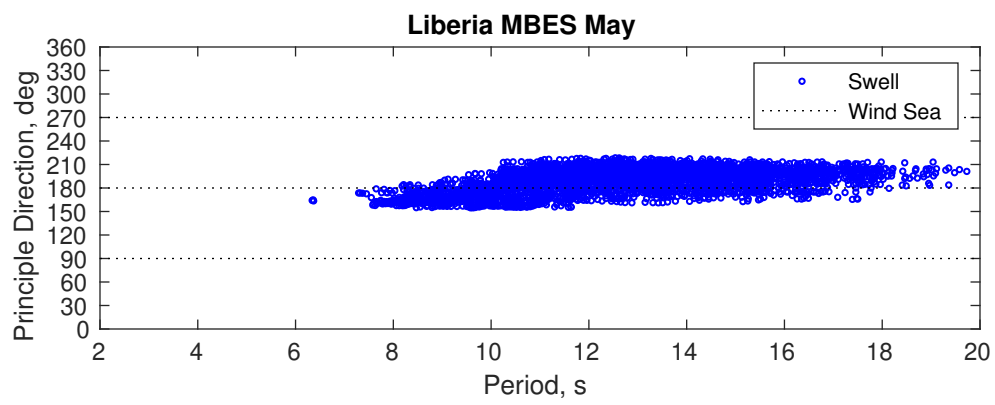
Mean Speed: 0.50-0.75 kts
The currents will occasionally reach 2.25-2.50 kts, but rarely greater.
Principle Direction, to: ESE

Weather Days
Current Speed > 0.5 knots Mean: 24.6 days Range: 20.5 - 28.7 days p50:26 days p75:22 days p90:19 days
Current Speed > 1.0 knots Mean: 10.6 days Range: 4.0 - 17.2 days p50:12 days p75:4 days p90:2 days
Current Speed > 1.5 knots Mean: 3.0 days Range: 0.0 - 6.2 days p50:4 days p75:1 days p90:1 days

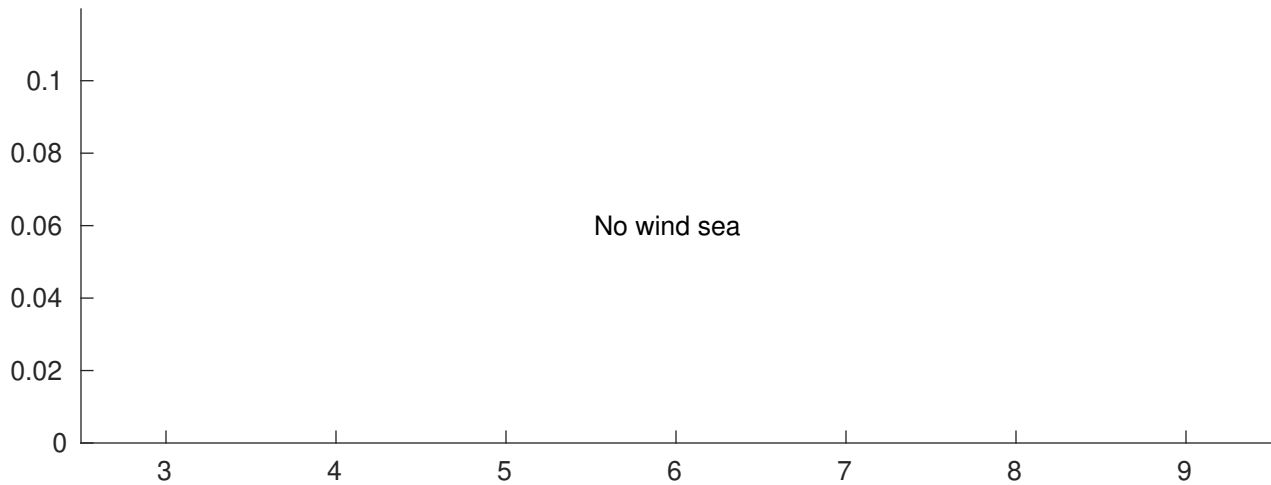
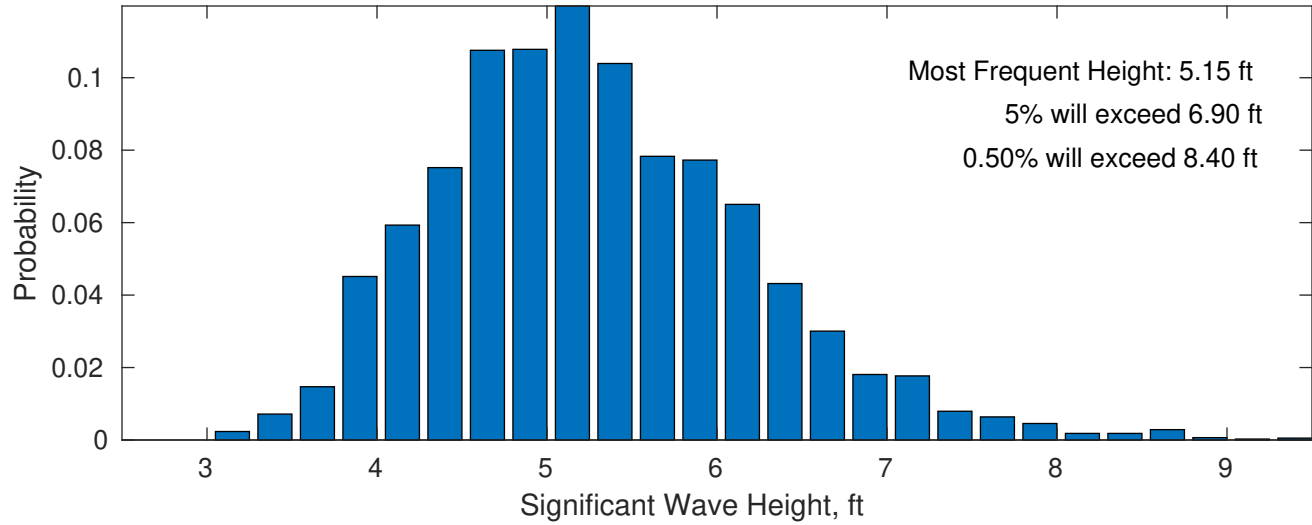
Severe Storms

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

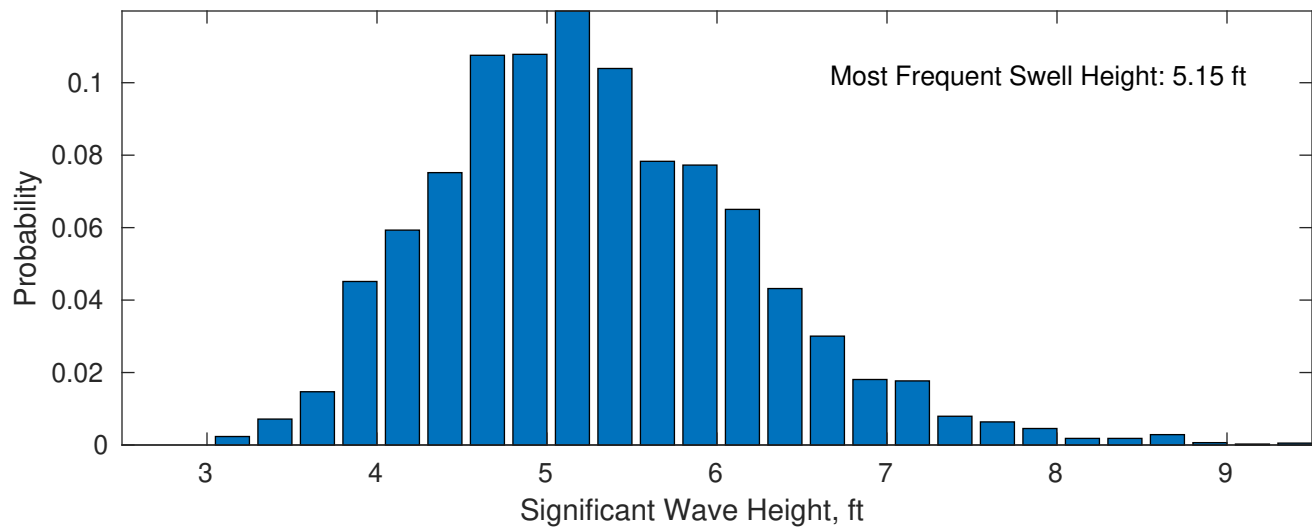




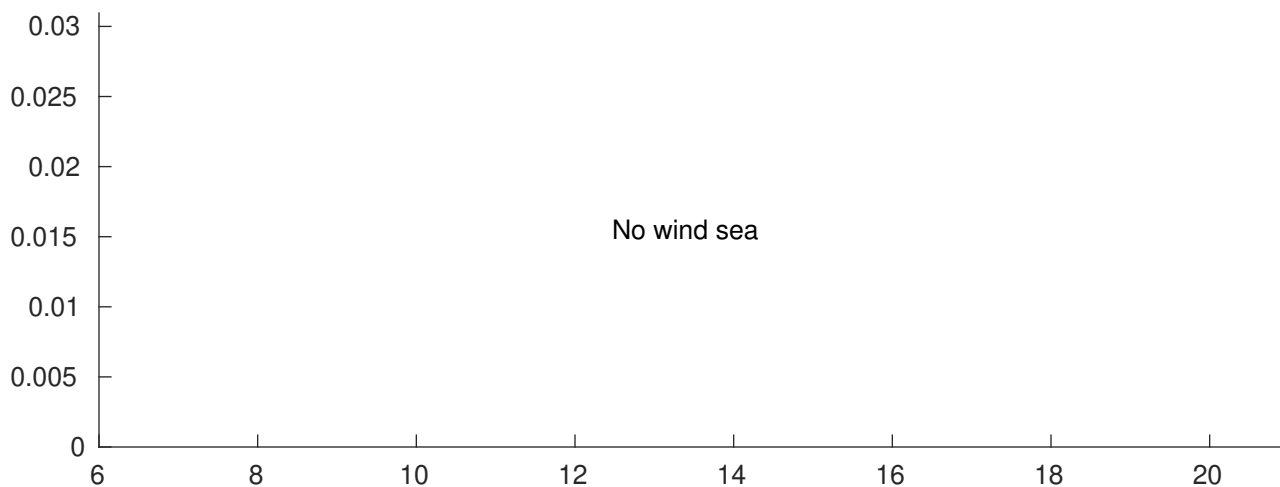
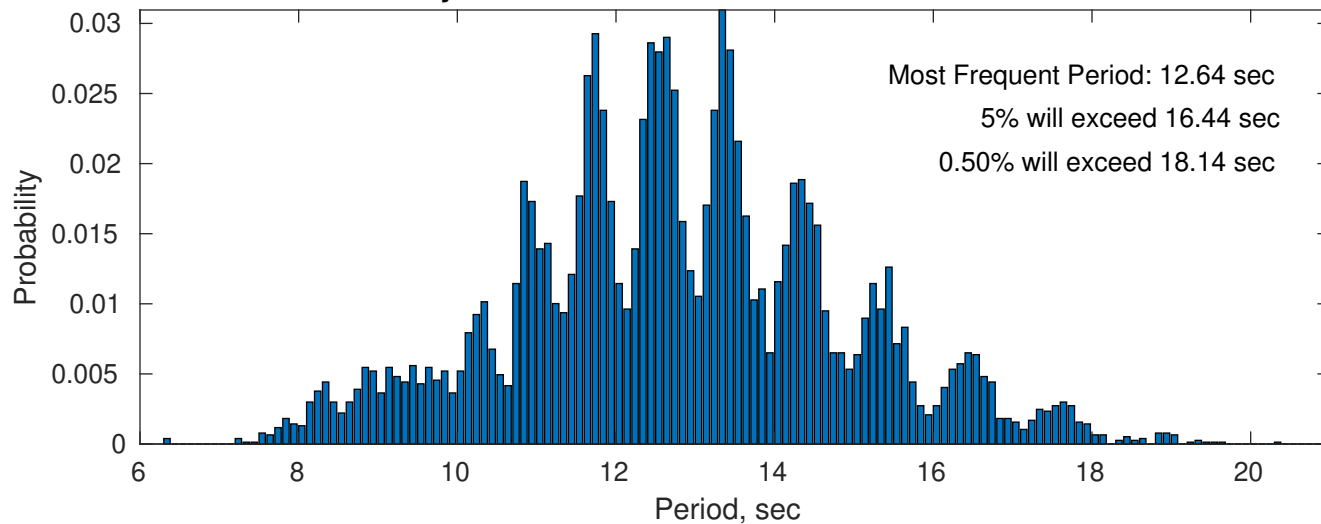
May Wave Height PDF: 1979 - 2015



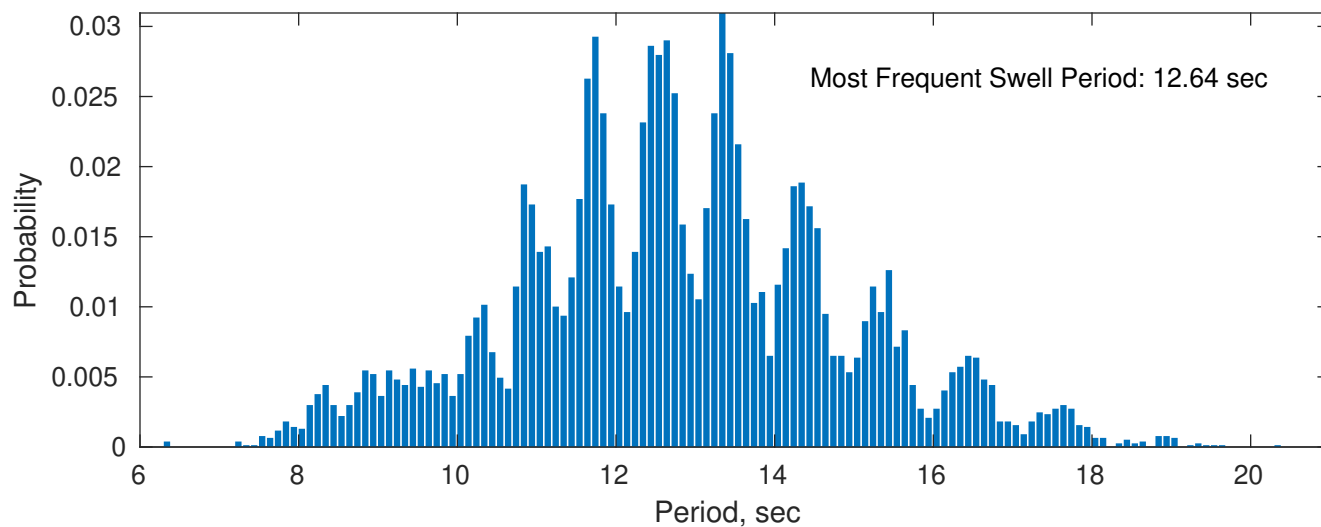
Swell: 100.00%



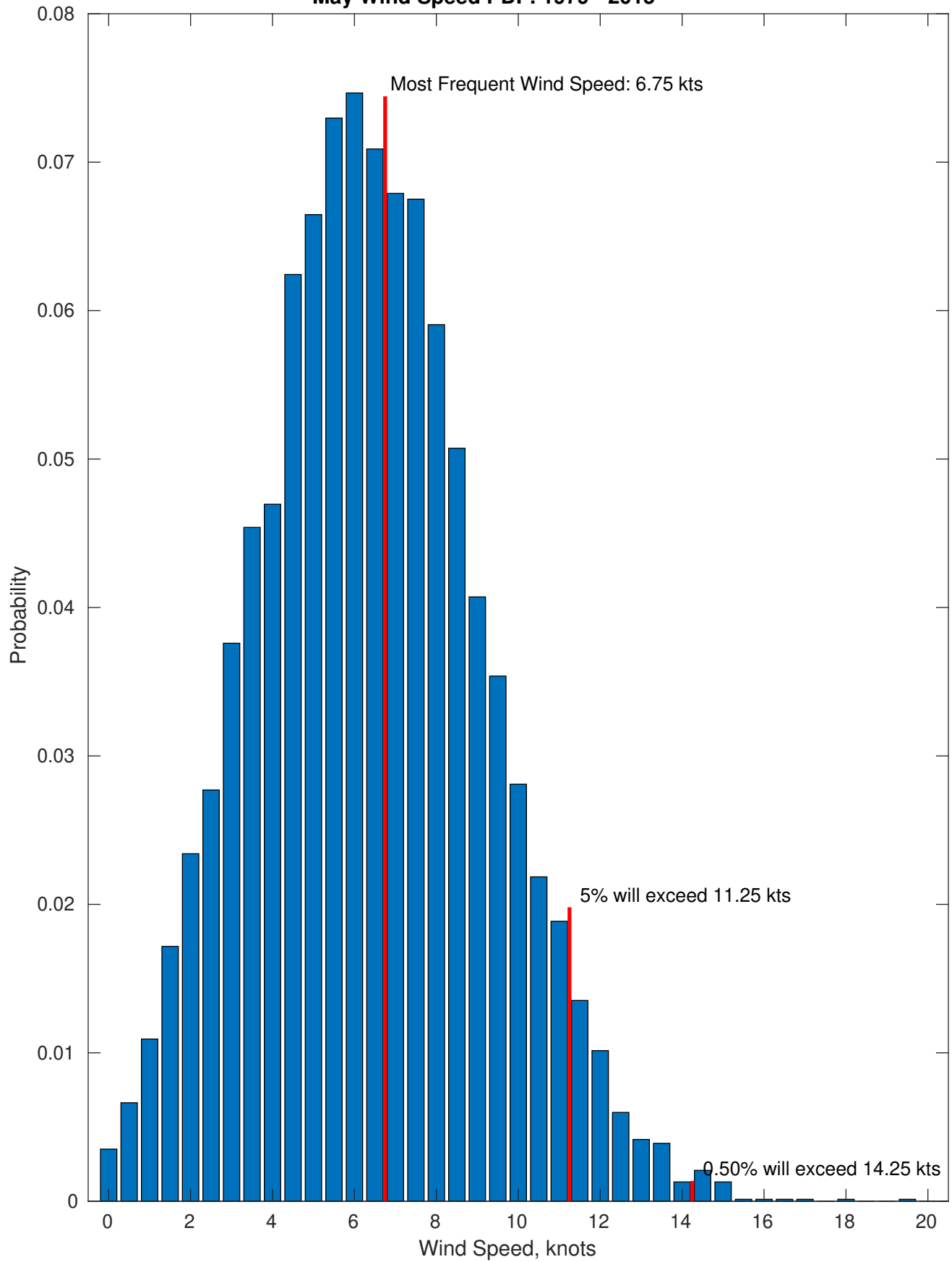
May Peak Wave Period PDF: 1979 - 2015



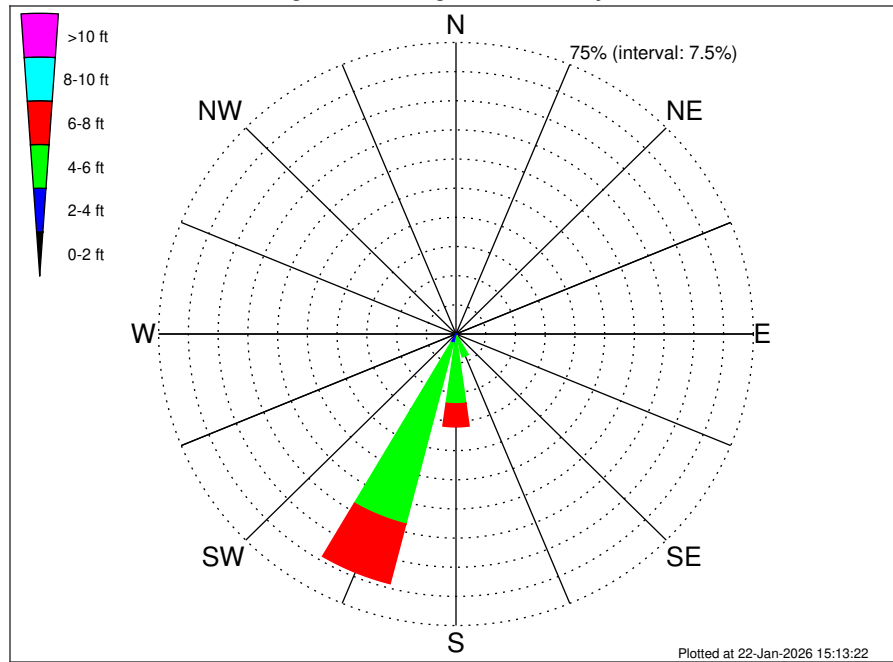
Swell: 100.00%



May Wind Speed PDF: 1979 - 2015



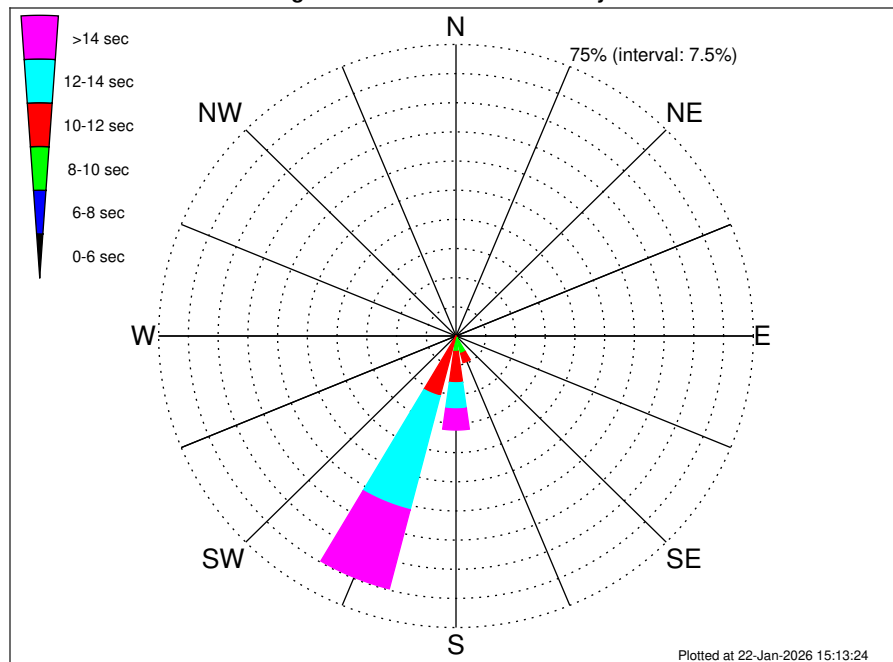
Liberia MBES Climatological WaveHeight Rose for May: 1979 - 2015



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	.	.	.	.	.	.	.	0.61	0.61	2.43	0.10	.	.	.	.	.	3.76
4 - 6 ft	.	.	.	.	.	.	.	5.52	17.34	48.05	0.51	.	.	.	.	.	71.41
6 - 8 ft	.	.	.	.	.	.	.	1.68	5.96	15.88	0.21	.	.	.	.	.	23.73
8 - 10 ft	.	.	.	.	.	.	.	.	0.29	0.82	.	.	.	.	.	.	1.11
10 - 12 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12 - 14 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14 - 16 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16 - 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
> 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	.	.	.	.	.	.	.	7.80	24.19	67.18	0.82	.	.	.	.	.	100.00

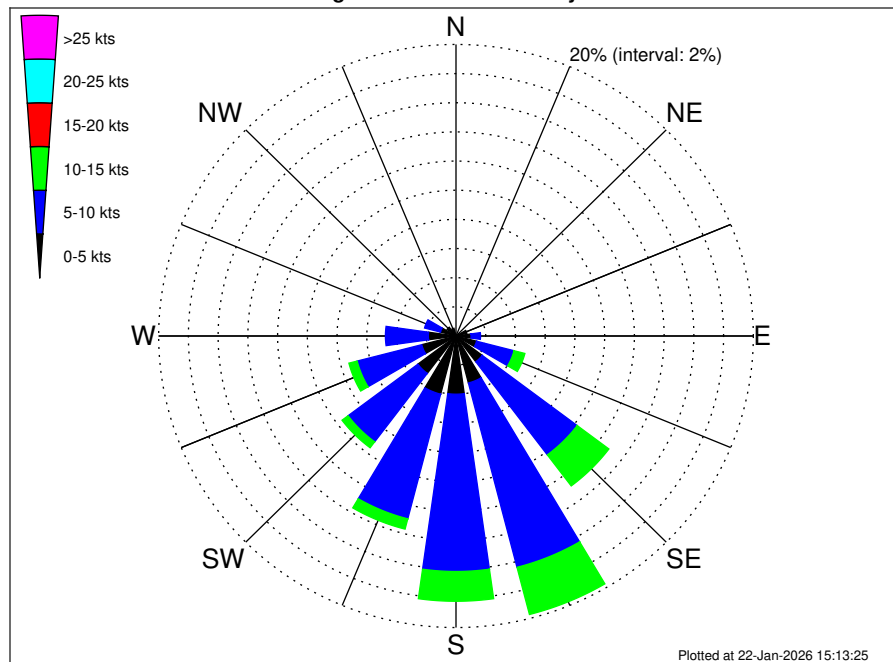
Liberia MBES Climatological WavePeriod Rose for May: 1979 - 2015



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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6 - 8 sec	•	•	•	•	•	•	•	0.42	0.21	•	•	•	•	•	•	•	0.62
8 - 10 sec	•	•	•	•	•	•	•	4.21	3.80	0.08	•	•	•	•	•	•	8.09
10 - 12 sec	•	•	•	•	•	•	•	2.46	8.04	15.88	0.18	•	•	•	•	•	26.56
12 - 14 sec	•	•	•	•	•	•	•	0.38	6.72	30.22	0.46	•	•	•	•	•	37.77
14 - 16 sec	•	•	•	•	•	•	•	0.23	4.03	15.45	0.18	•	•	•	•	•	19.90
18 - 20 sec	•	•	•	•	•	•	•	0.10	1.30	5.03	•	•	•	•	•	•	6.44
22 - 24 sec	•	•	•	•	•	•	•	•	0.09	0.52	•	•	•	•	•	•	0.61
Total	•	•	•	•	•	•	•	7.80	24.19	67.18	0.82	•	•	•	•	•	100.00

Liberia MBES Climatological Wind Rose for May: 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	0.04	0.07	0.08	0.03	0.08	0.07	0.04	0.07	0.10	0.08	0.08	0.12	0.04	0.07	0.01	1.01
0 - 5 kts	0.47	0.36	0.48	0.68	0.99	1.35	2.15	3.29	3.93	4.02	3.13	2.30	1.74	1.04	0.69	0.53	27.16
5 - 10 kts	0.09	0.07	0.08	0.16	0.64	2.60	8.00	13.06	12.16	8.83	5.88	4.49	2.89	1.11	0.34	0.25	60.63
10 - 15 kts	.	.	.	0.01	0.04	0.75	2.67	3.34	2.04	0.73	0.51	0.57	0.23	0.08	0.01	.	10.99
15 - 20 kts	.	.	.	0.01	.	0.03	0.05	0.07	0.01	0.01	0.01	0.01	.	.	.	.	0.21
20 - 25 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
25 - 30 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30 - 35 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
35 - 40 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
40 - 45 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
45 - 50 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	0.62	0.47	0.62	0.94	1.69	4.81	12.93	19.80	18.21	13.70	9.61	7.45	4.98	2.26	1.11	0.79	100.00