

Madagascar MBES - May

Latitude: 14.97 S Longitude: 45.59 E

Weather Days

Wave Height > 5.0 ft Mean: 1.1 days Range: 0.1 - 2.1 days p50:2 days p75:1 days p90:0.5 days
Wave Height > 6.5 ft Mean: 0.0 days Range: 0.0 - 0.3 days p50:30 days p75:30 days p90:30 days
Wave Height > 8.0 ft Mean: 0.0 days Range: 0.0 - 0.0 days p50:30 days p75:30 days p90:30 days
Wind Speed > 15.0 knots Mean: 8.2 days Range: 5.7 - 10.7 days p50:9 days p75:7 days p90:5 days
Wind Speed > 20.0 knots Mean: 1.9 days Range: 0.5 - 3.3 days p50:2 days p75:1 days p90:0.5 days
Wind Speed > 25.0 knots Mean: 0.1 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 2.5 times per month A 2 day or longer window will statistically occur 2.2 times per month A 3 day or longer window will statistically occur 1.9 times per month
Wave Height < 6.5 ft	A 1 day or longer window will statistically occur 0.9 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 < 8.0 ft	A 1 day or longer window will statistically occur 0.9 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: 2 - 4 ft
The wave heights will occasionally reach 4 - 6 ft, but rarely higher.
Mean Period: 4 - 6 sec
The wave periods will occasionally reach 6 - 8 sec, but rarely longer.
Principle Direction, from: E
WindSea/Swell: 44% / 56%

Winds

Mean Speed: 10 - 15 kts
The winds will occasionally reach 20 - 25 kts, but rarely greater.
Principle Direction, from: ESE

Currents

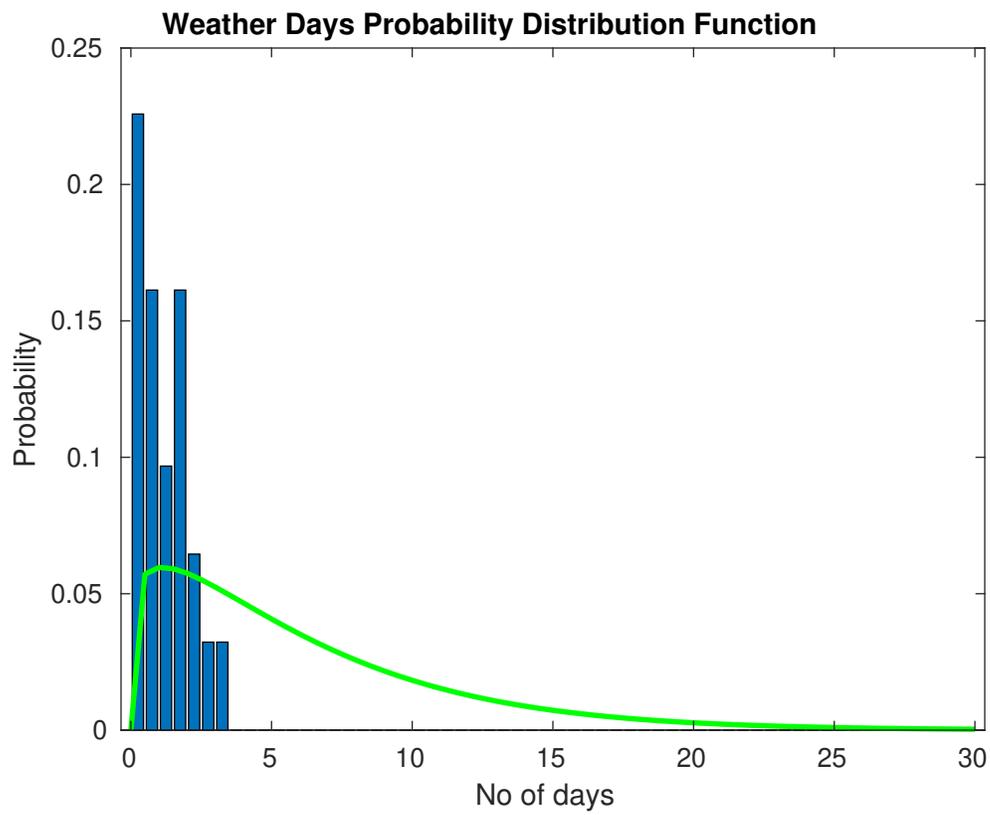
Mean Speed: 0.25-0.50 kts
The currents will occasionally reach 1.25-1.50 kts, but rarely greater.
Principle Direction, to: W

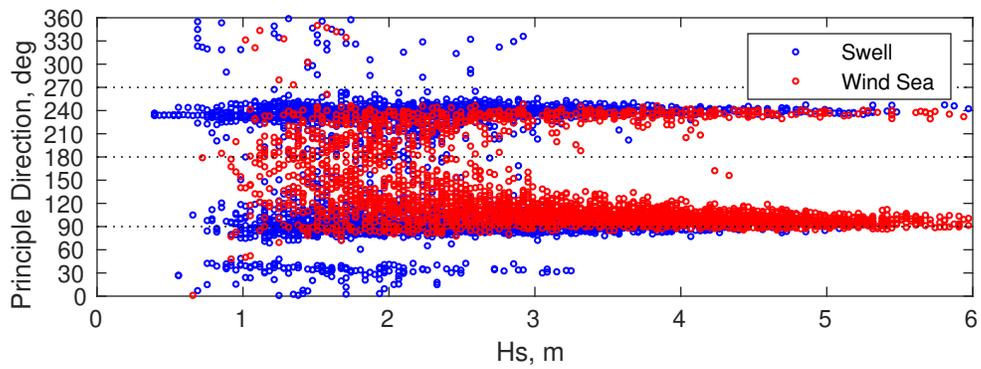
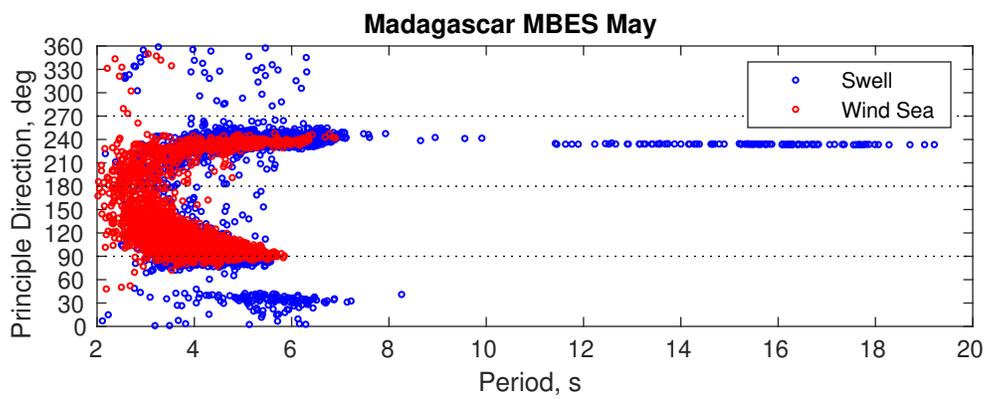
Weather Days

Current Speed > 0.5 knots Mean: 12.9 days Range: 5.6 - 20.2 days p50:12 days p75:6 days p90:5 days
Current Speed > 1.0 knots Mean: 2.9 days Range: 0.0 - 7.4 days p50:2 days p75:1 days p90:1 days
Current Speed > 1.5 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 days p75:1 days p90:1 days

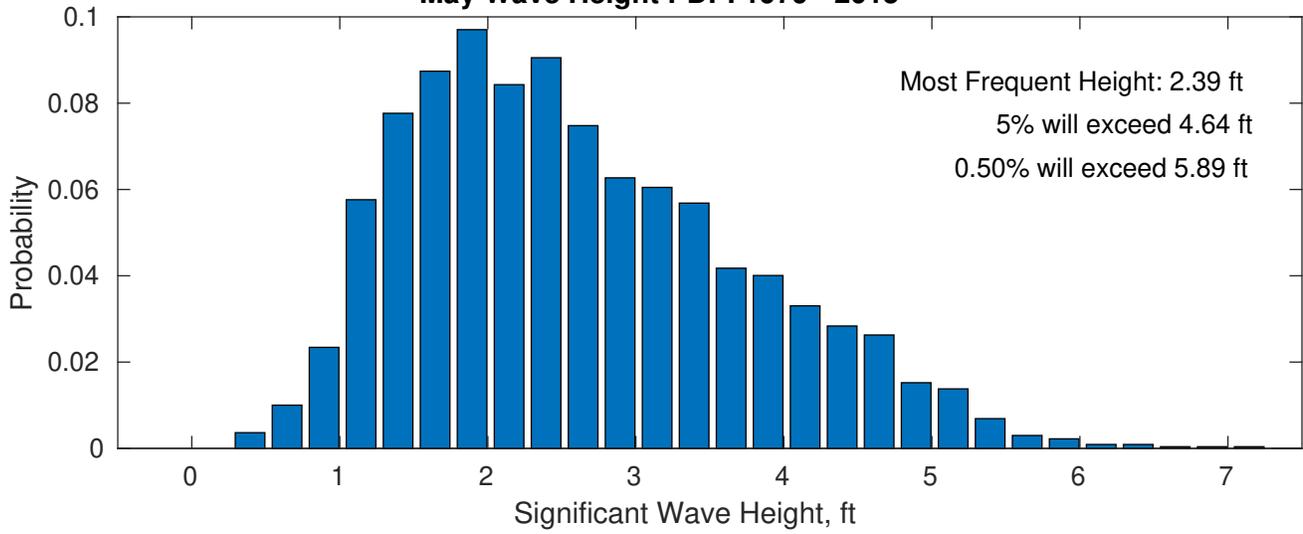
Severe Storms

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

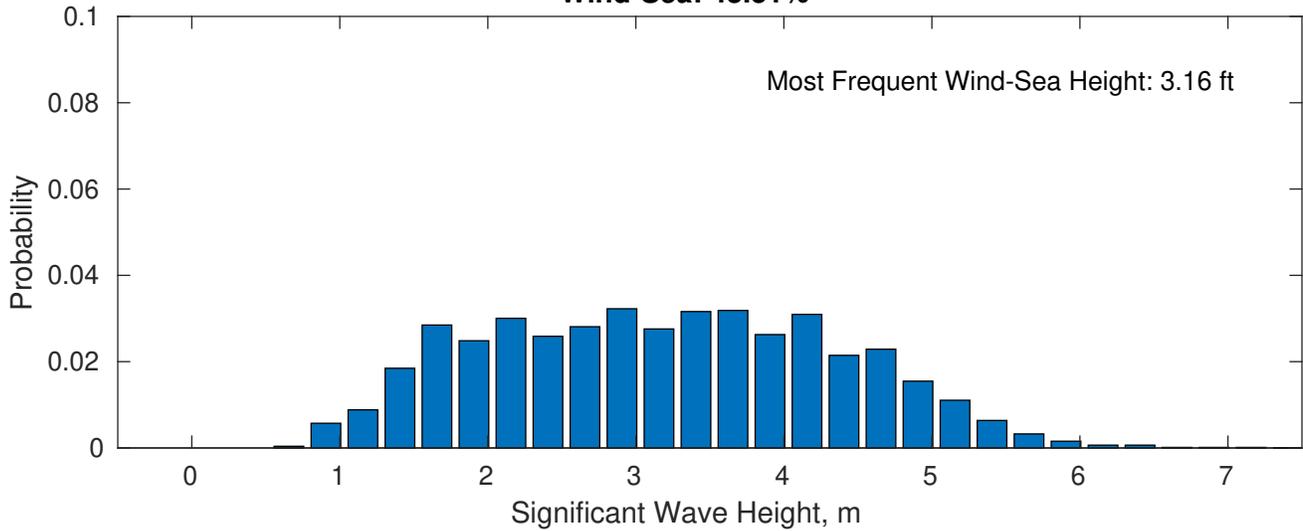




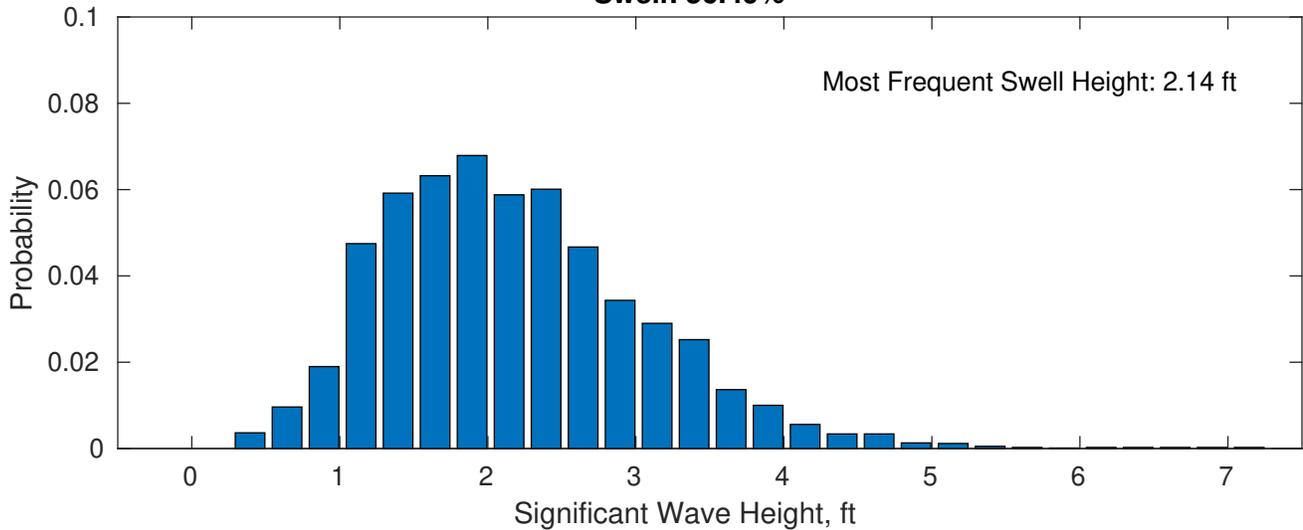
May Wave Height PDF: 1979 - 2015



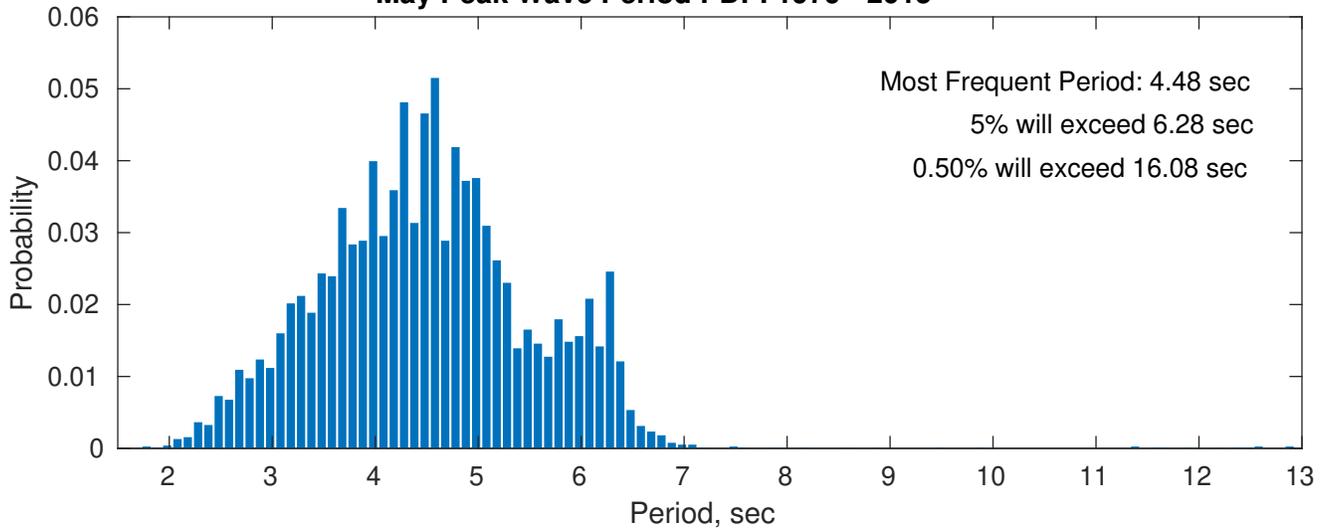
Wind-Sea: 43.51%



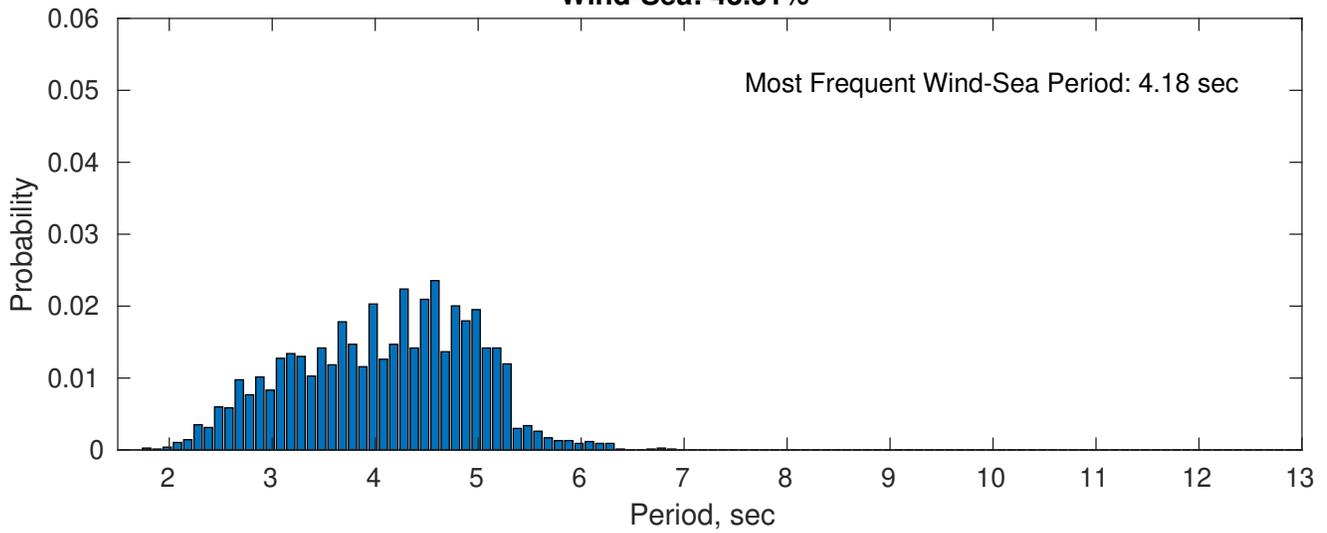
Swell: 56.49%



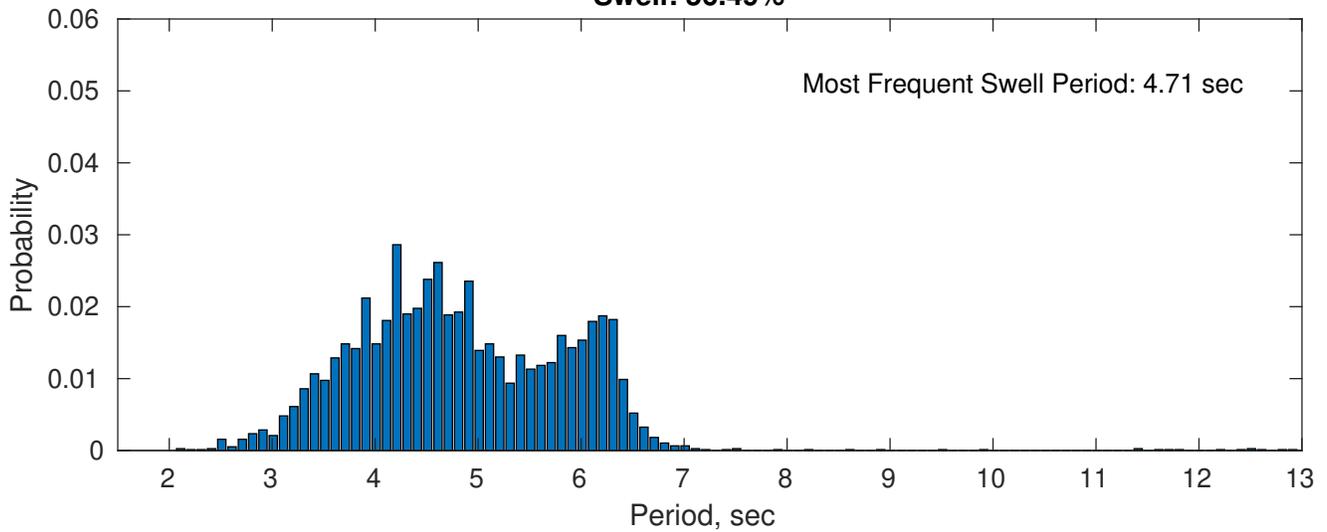
May Peak Wave Period PDF: 1979 - 2015



Wind-Sea: 43.51%

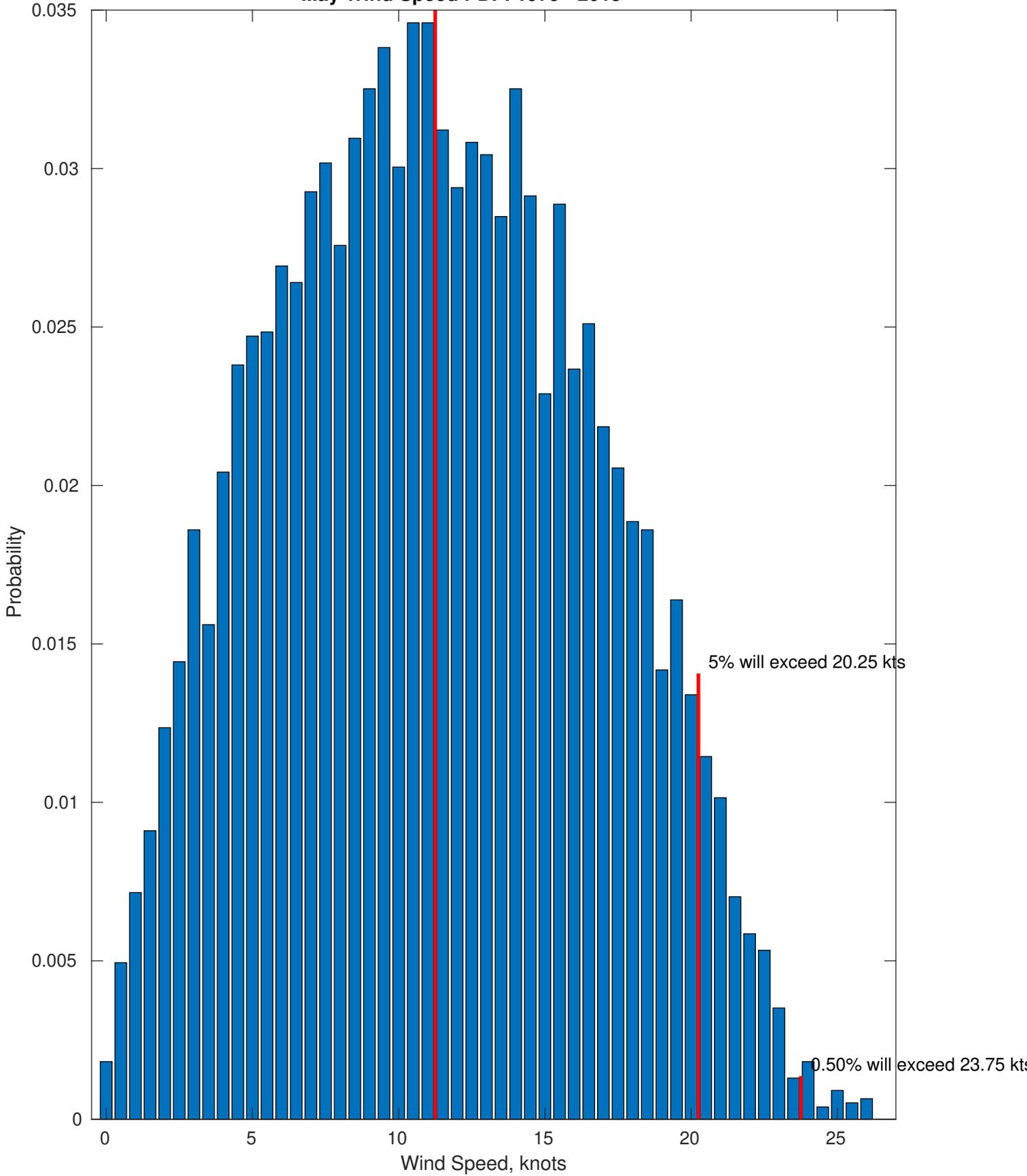


Swell: 56.49%

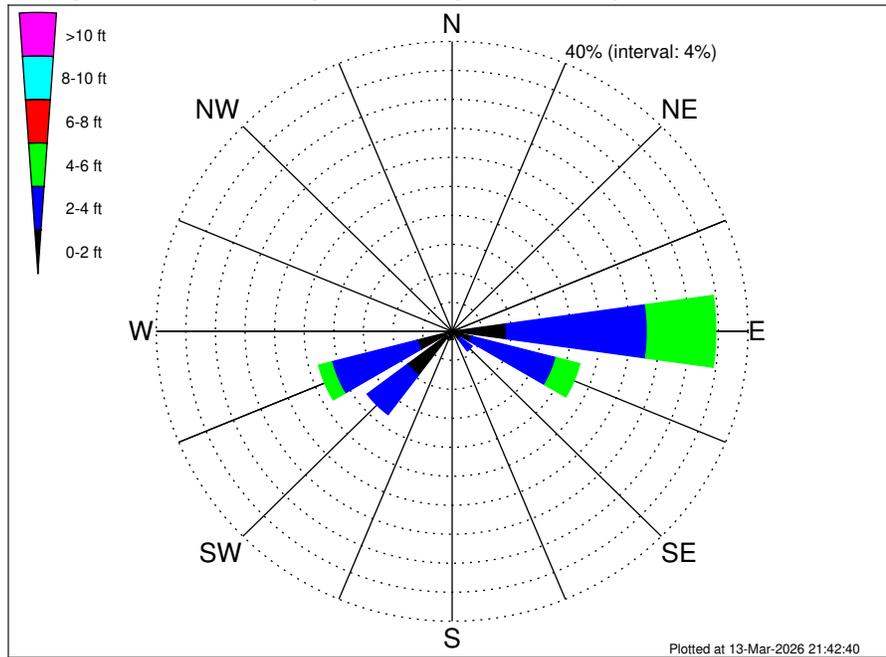


Most Frequent Wind Speed: 11.25 kts

May Wind Speed PDF: 1979 - 2015



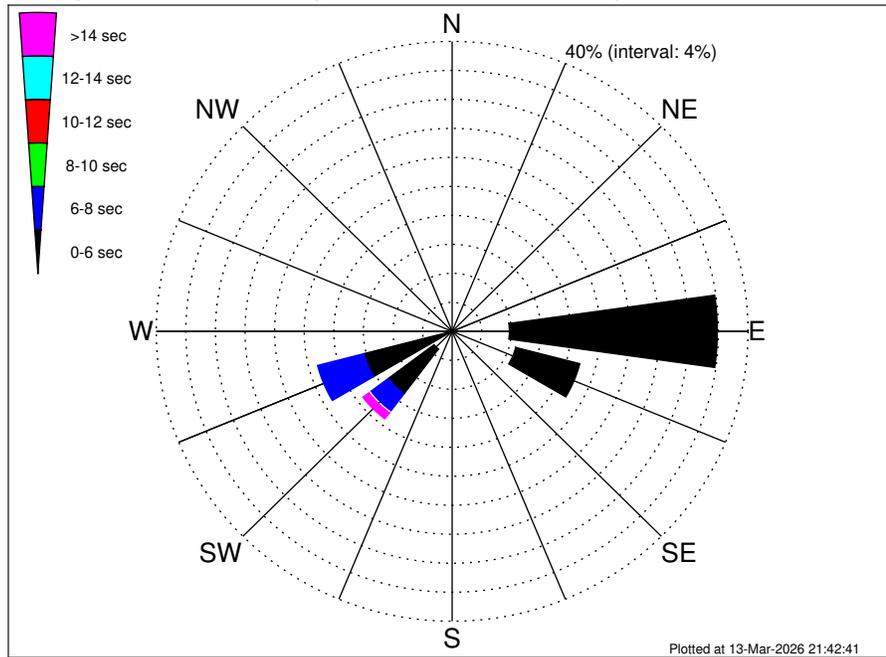
Madagascar MBES Climatological WaveHeight Rose for May: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.05	0.05	0.20	0.03	0.30	0.09	0.01	0.05	0.04	0.05	1.03	0.30	•	0.01	0.07	0.03	2.30
1 - 2 ft	0.18	0.40	0.59	0.40	7.04	2.68	1.39	0.91	1.11	1.20	6.54	4.58	0.17	0.08	0.05	0.20	27.51
2 - 4 ft	•	0.27	0.23	0.17	19.07	11.75	1.99	0.79	0.47	0.92	6.82	11.97	0.04	0.04	0.04	0.05	54.62
4 - 6 ft	•	•	•	0.01	9.24	3.32	0.01	0.03	•	0.03	0.73	1.81	•	•	•	•	15.17
6 - 8 ft	•	•	•	•	0.21	•	•	•	•	•	•	0.20	•	•	•	•	0.40
8 - 10 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10 - 12 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.23	0.73	1.01	0.61	35.85	17.83	3.41	1.78	1.61	2.20	15.11	18.85	0.21	0.13	0.16	0.27	100.00

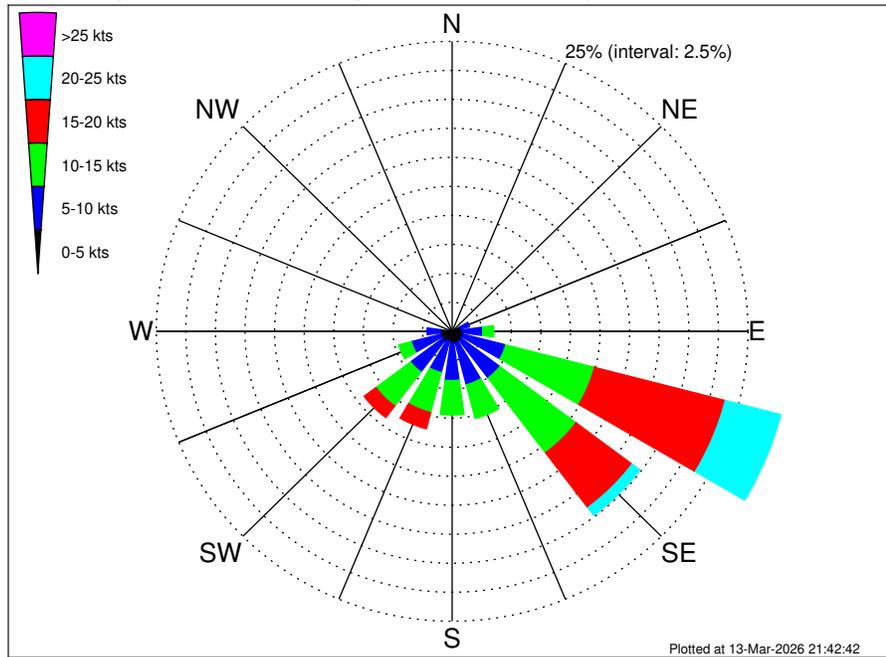
Madagascar MBES Climatological WavePeriod Rose for May: 1979 - 2015



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	0.01	•	•	•	•	•	•	0.01	0.01	•	•	•	•	•	•	•	0.04
2 - 4 sec	0.13	0.04	0.13	0.38	7.74	8.87	3.19	1.66	1.52	1.96	3.06	0.61	0.07	0.03	0.08	0.16	29.62
4 - 6 sec	0.05	0.44	0.69	0.23	28.11	8.96	0.22	0.10	0.08	0.23	7.74	11.71	0.13	0.10	0.05	0.09	58.95
6 - 8 sec	0.04	0.25	0.18	•	•	•	•	•	•	•	2.93	6.48	0.01	•	0.03	0.03	9.94
8 - 10 sec	•	•	0.01	•	•	•	•	•	•	•	•	0.05	•	•	•	•	0.07
10 - 12 sec	•	•	•	•	•	•	•	•	•	•	0.07	•	•	•	•	•	0.07
12 - 14 sec	•	•	•	•	•	•	•	•	•	•	0.30	•	•	•	•	•	0.30
14 - 16 sec	•	•	•	•	•	•	•	•	•	•	0.48	•	•	•	•	•	0.48
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	0.48	•	•	•	•	•	0.48
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	0.07	•	•	•	•	•	0.07
Total	0.23	0.73	1.01	0.61	35.85	17.83	3.41	1.78	1.61	2.20	15.11	18.85	0.21	0.13	0.16	0.27	100.00

Madagascar 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	0.03	0.03	0.04	0.04	0.07	0.03	0.07	0.04	0.05	0.04	0.03	0.05	0.05	0.03	0.04	0.68
0 - 5 kts	0.40	0.46	0.62	0.72	0.82	0.88	0.99	0.96	1.01	0.81	0.98	0.95	0.95	0.59	0.47	0.55	12.15
5 - 10 kts	0.16	0.26	0.38	0.77	1.73	3.73	4.03	3.73	3.20	2.82	3.38	2.59	1.12	0.35	0.22	0.25	28.72
10 - 15 kts	.	.	.	0.03	0.94	7.74	8.06	2.99	2.97	3.55	3.67	1.09	0.09	.	.	.	31.13
15 - 20 kts	.	.	.	.	0.17	11.42	5.93	0.23	0.55	1.44	1.25	0.10	.	.	.	.	21.10
20 - 25 kts	.	.	.	.	.	4.84	0.82	.	0.05	0.26	0.05	.	.	.	.	.	6.02
25 - 30 kts	.	.	.	.	.	0.21	.	.	.	.	.	.	.	.	.	.	0.21
30 - 35 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
35 - 40 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
40 - 45 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
45 - 50 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	0.62	0.74	1.03	1.55	3.69	28.89	19.86	7.99	7.82	8.94	9.37	4.76	2.21	0.99	0.72	0.83	100.00