

Madagascar MBES - August

Latitude: 14.97 S Longitude: 45.59 E

Weather Days

Wave Height > 5.0 ft Mean: 2.6 days Range: 0.9 - 4.3 days p50:2.5 days p75:1.5 days p90:0.5 days

Wave Height > 6.5 ft Mean: 0.2 days Range: 0.0 - 0.4 days p50:30 days p75:30 days p90:0.5 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: 11.1 days Range: 8.8 - 13.5 days p50:11 days p75:9.5 days p90:9 days

Wind Speed > 20.0 knots Mean: 3.9 days Range: 1.9 - 6.0 days p50:4 days p75:2.5 days p90:2 days

Wind Speed > 25.0 knots Mean: 0.3 days Range: 0.0 - 0.9 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 3.7 times per month
A 2 day or longer window will statistically occur 2.9 times per month
A 3 day or longer window will statistically occur 2.5 times per month

Wave Height < 6.5 ft
A 1 day or longer window will statistically occur 1.3 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 1.3 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 6 - 8 ft, but rarely higher.

Mean Period: 4 - 6 sec

The wave periods will occasionally reach 10 - 12 sec, but rarely longer.

Principle Direction, from: E

WindSea/Swell: 48% / 52%

Winds

Mean Speed: 10 - 15 kts

The winds will occasionally reach 25 - 30 kts, but rarely greater.

Principle Direction, from: ESE

Currents

Mean Speed: 0.50-0.75 kts

The currents will occasionally reach 1.50-1.75 kts, but rarely greater.

Principle Direction, to: W

Weather Days

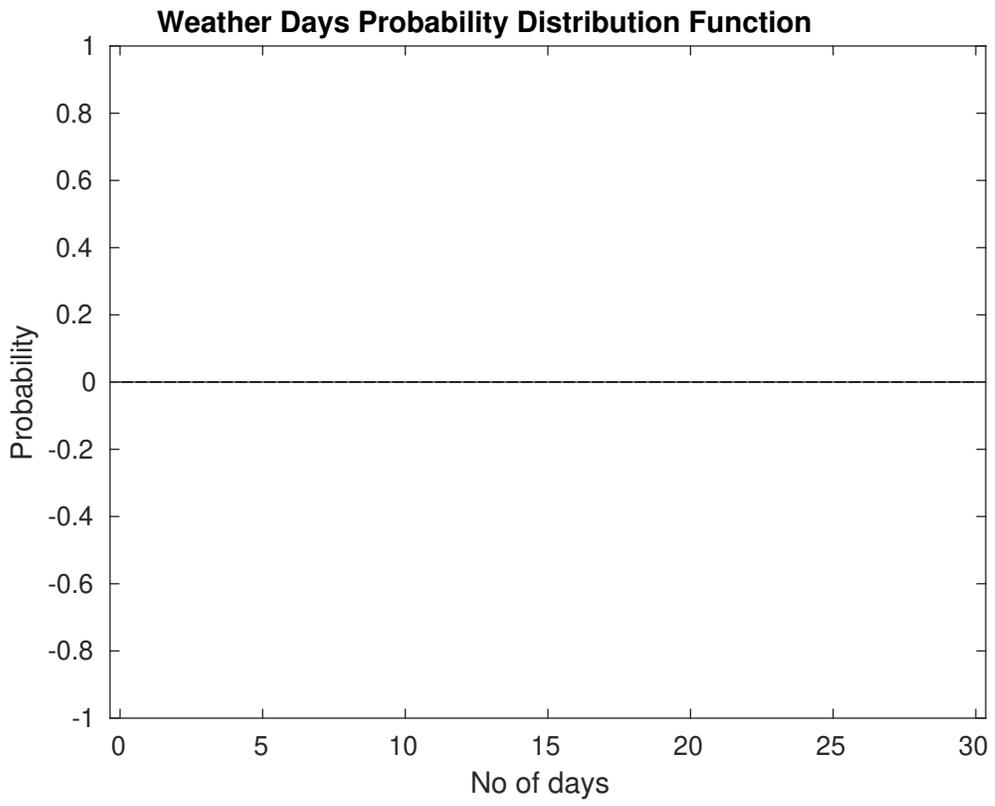
Current Speed > 0.5 knots Mean: 20.1 days Range: 12.5 - 27.6 days p50:24 days p75:15 days p90:8 days

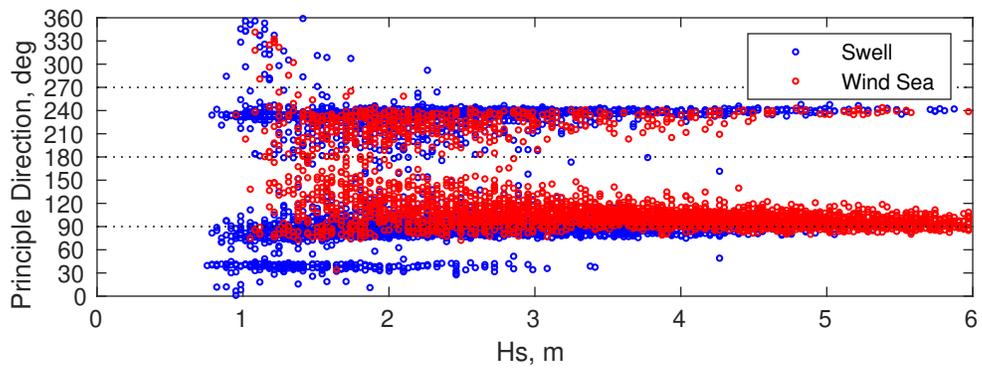
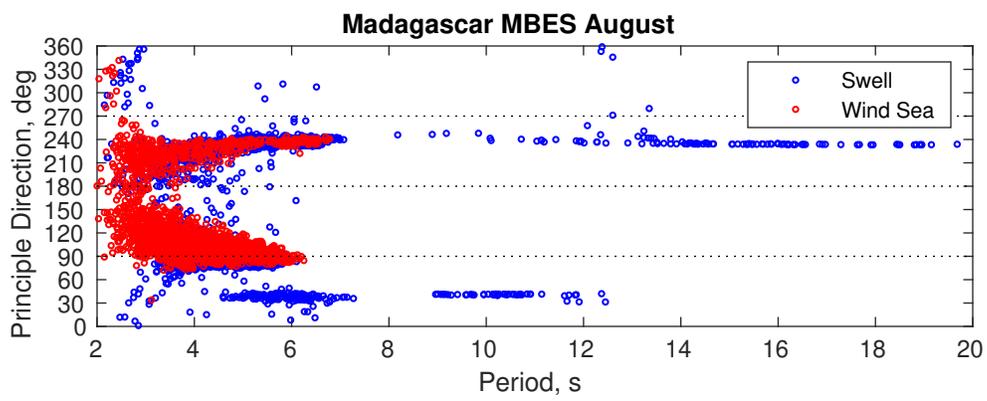
Current Speed > 1.0 knots Mean: 7.0 days Range: 0.3 - 13.8 days p50:7 days p75:1 days p90:1 days

Current Speed > 1.5 knots Mean: 0.9 days Range: 0.0 - 2.3 days p50:1 days p75:1 days p90:1 days

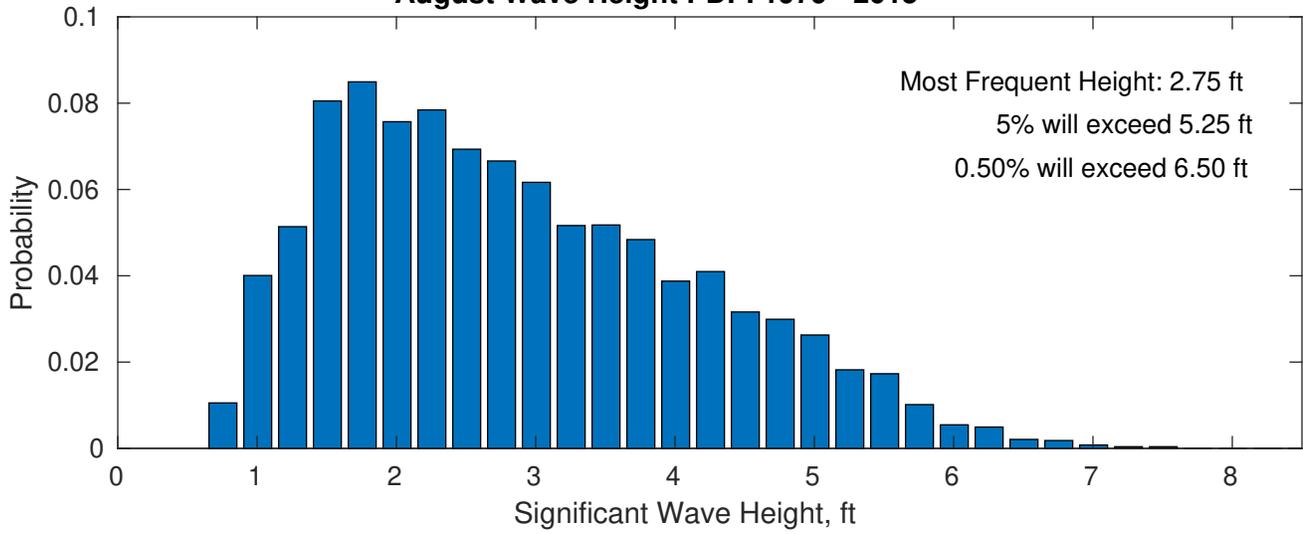
Severe Storms

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

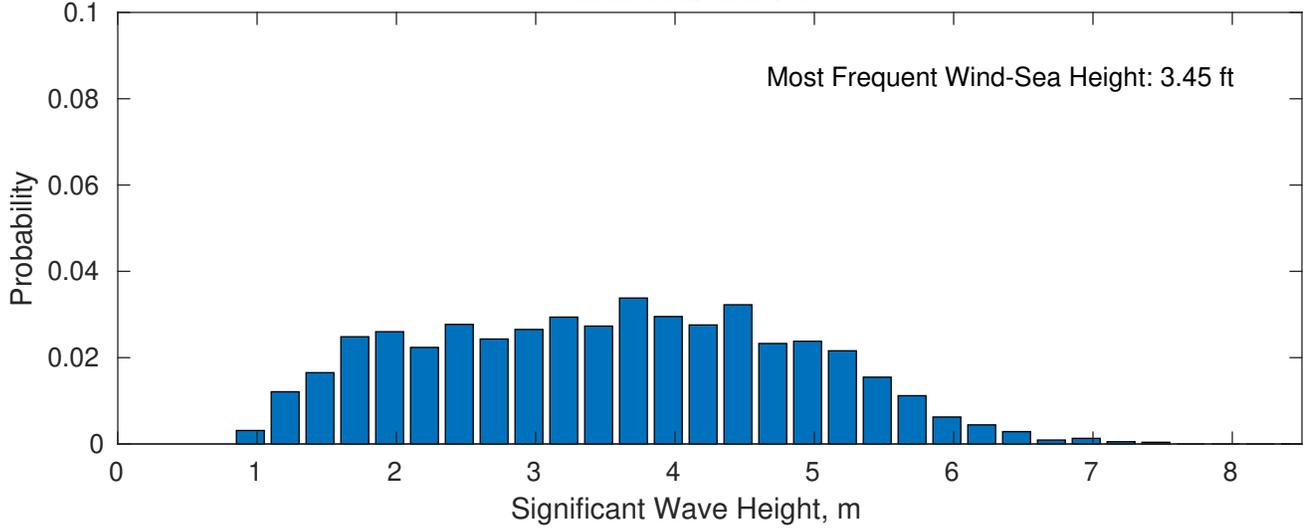




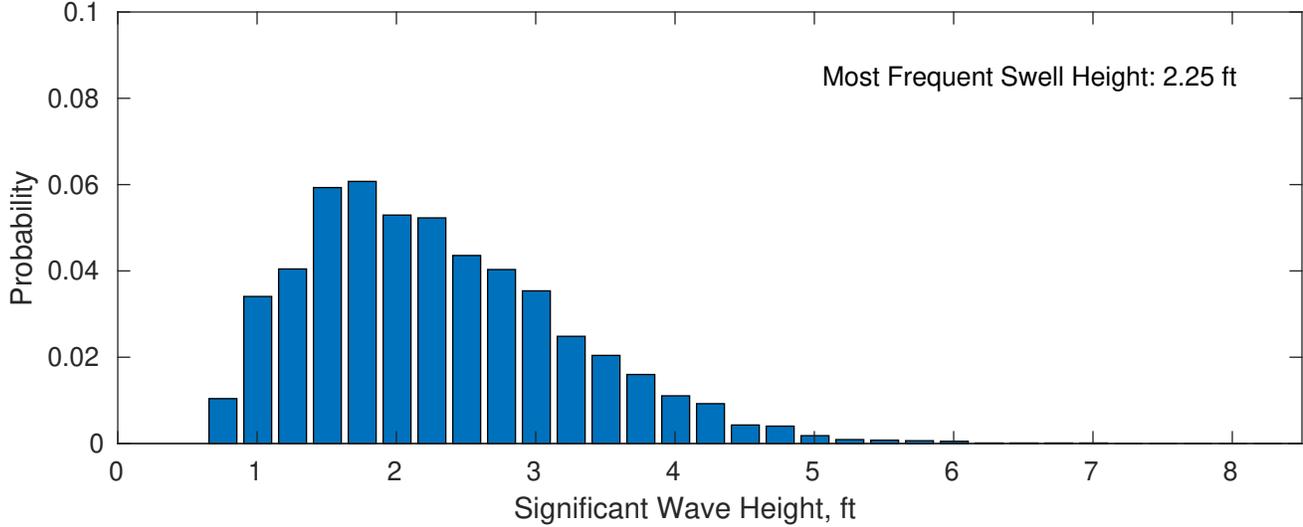
August Wave Height PDF: 1979 - 2015



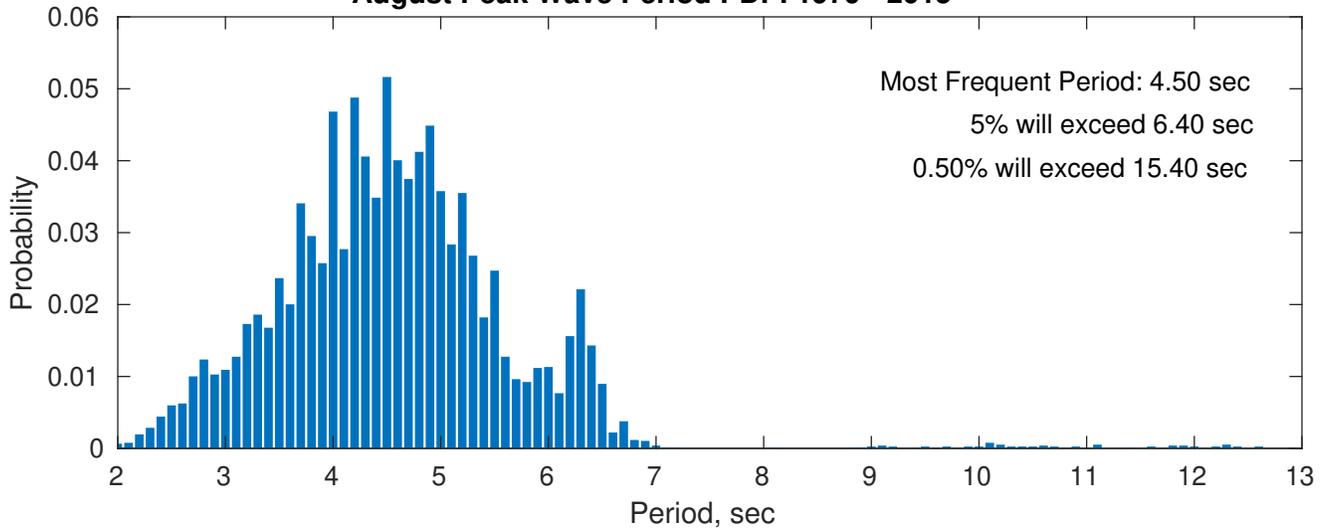
Wind-Sea: 47.54%



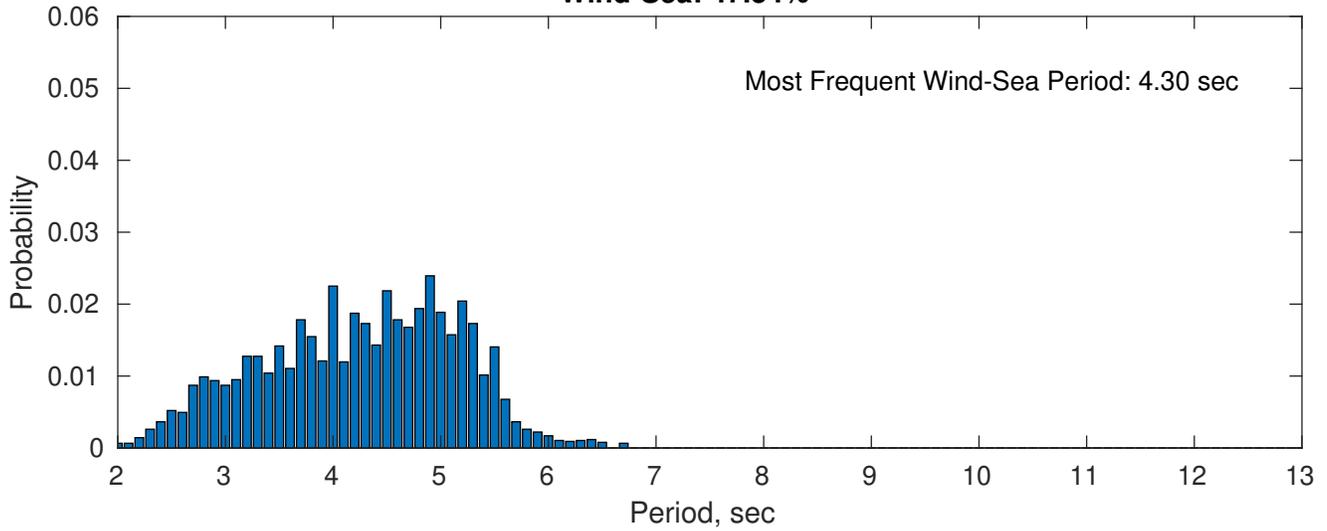
Swell: 52.46%



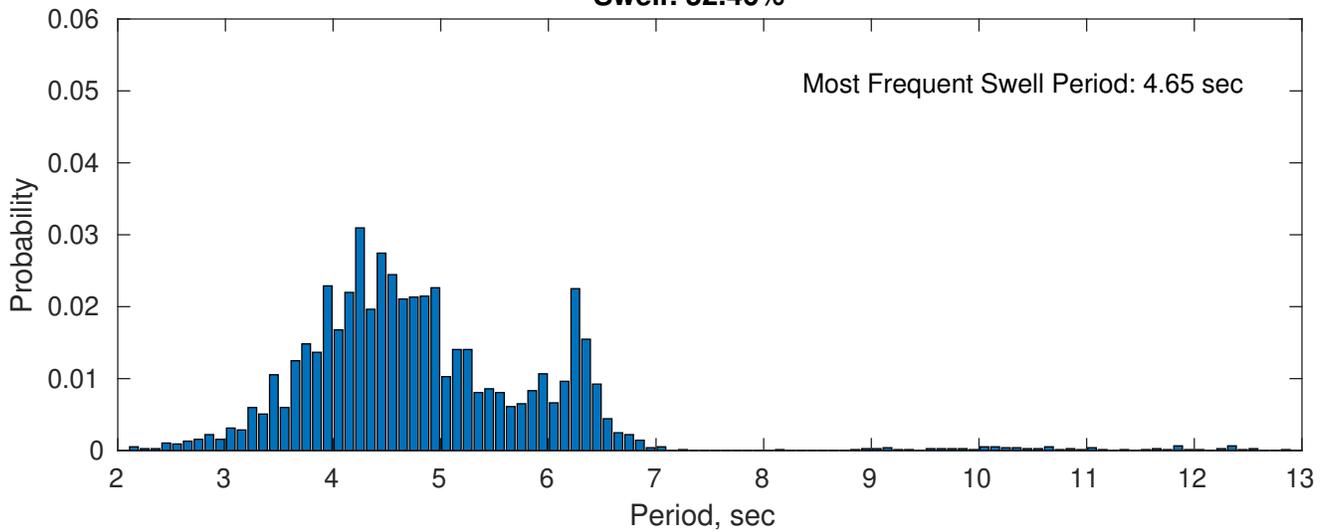
August Peak Wave Period PDF: 1979 - 2015



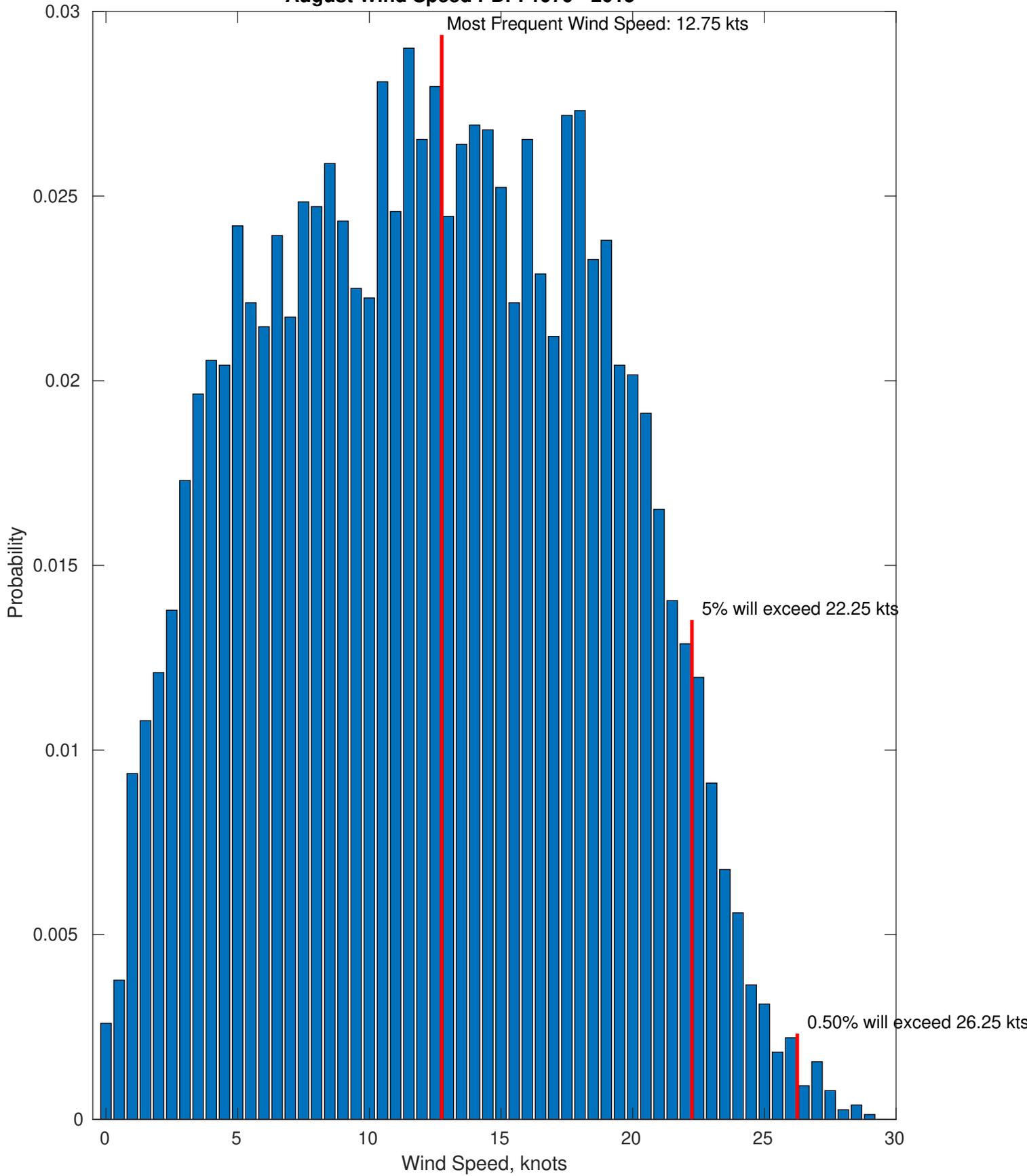
Wind-Sea: 47.54%



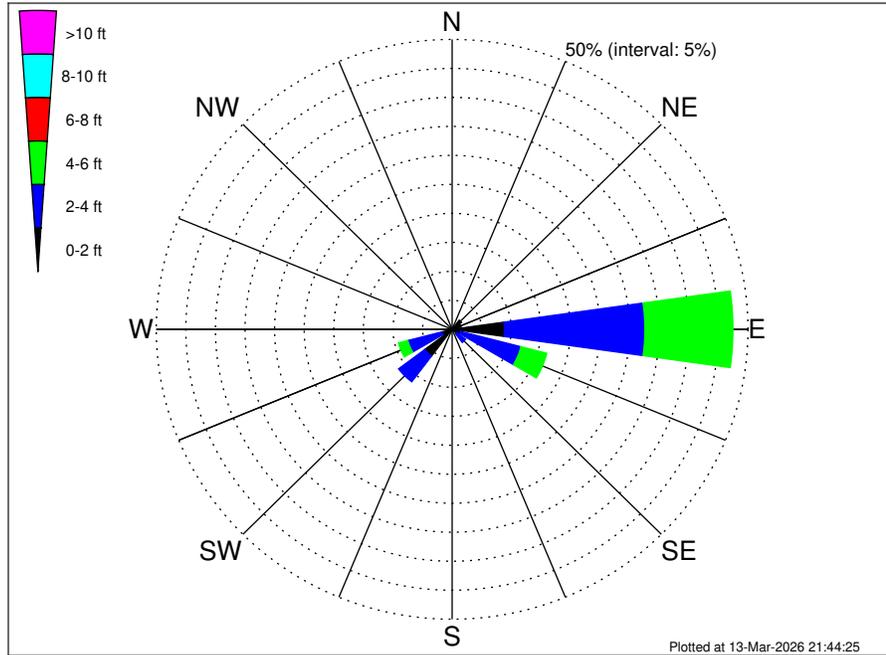
Swell: 52.46%



August Wind Speed PDF: 1979 - 2015



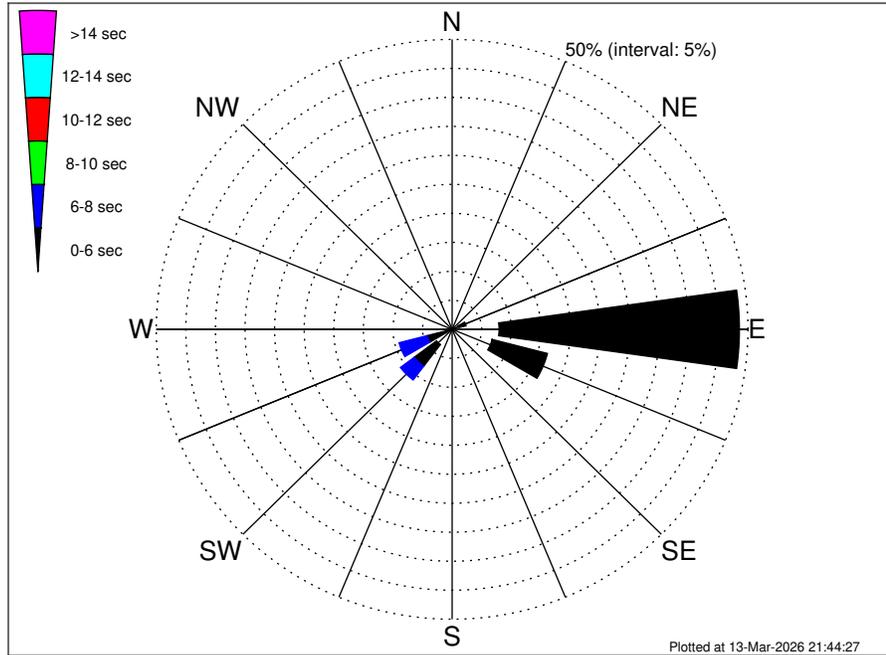
Madagascar MBES Climatological WaveHeight Rose for August: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.04	0.07	0.26	0.12	0.21	0.01	•	•	•	•	0.29	0.03	•	0.01	•	0.03	1.05
1 - 2 ft	0.08	0.20	1.73	1.44	8.64	1.50	1.00	0.52	0.68	1.12	5.50	1.85	0.12	0.10	0.17	0.13	24.77
2 - 4 ft	•	0.09	0.51	0.79	23.74	10.51	1.83	0.34	0.35	1.20	5.54	5.87	0.03	0.01	•	•	50.81
4 - 6 ft	•	•	0.01	0.08	14.87	4.50	0.08	0.01	•	0.03	0.51	1.63	•	•	•	•	21.71
6 - 8 ft	•	•	•	•	1.22	0.12	•	•	•	•	0.07	0.26	•	•	•	•	1.66
8 - 10 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10 - 12 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.12	0.35	2.51	2.43	48.67	16.64	2.91	0.87	1.03	2.34	11.90	9.63	0.14	0.13	0.17	0.16	100.00

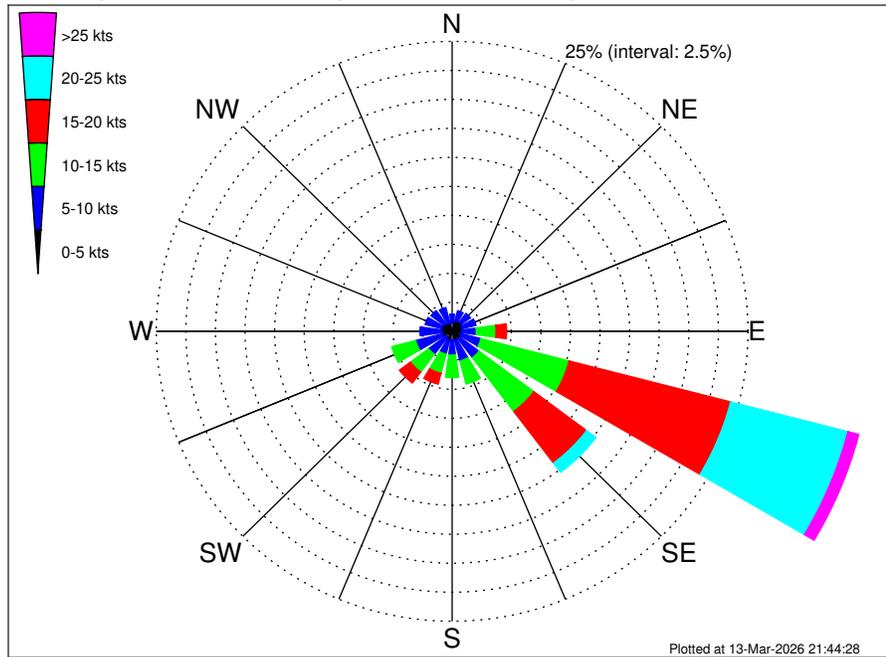
Madagascar MBES Climatological WavePeriod Rose for August: 1979 - 2015



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
2 - 4 sec	0.07	0.08	0.13	1.17	7.93	6.98	2.60	0.79	0.85	2.04	3.30	0.43	0.07	0.12	0.13	0.14	26.83
4 - 6 sec	0.01	0.08	1.17	1.26	40.61	9.65	0.31	0.07	0.17	0.30	4.70	3.97	0.01	0.01	0.03	•	62.34
6 - 8 sec	0.01	0.16	0.64	•	0.13	•	•	0.01	•	•	2.94	4.86	0.04	•	0.01	•	8.81
8 - 10 sec	•	•	0.20	•	•	•	•	•	•	•	•	0.05	•	•	•	•	0.25
10 - 12 sec	•	0.03	0.36	•	•	•	•	•	•	•	•	0.14	•	•	•	•	0.53
12 - 14 sec	0.03	0.01	0.01	•	•	•	•	•	•	•	0.12	0.16	0.03	•	•	0.01	0.36
14 - 16 sec	•	•	•	•	•	•	•	•	•	•	0.48	0.01	•	•	•	•	0.49
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	0.23	•	•	•	•	•	0.23
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	0.13	•	•	•	•	•	0.13
Total	0.12	0.35	2.51	2.43	48.67	16.64	2.91	0.87	1.03	2.34	11.90	9.63	0.14	0.13	0.17	0.16	100.00

Madagascar MBES Climatological Wind Rose for August: 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	0.07	0.04	0.01	0.03	0.01	0.07	0.04	0.12	0.04	0.04	0.01	0.01	0.07	0.03	0.01	0.64
0 - 5 kts	0.61	0.87	0.96	0.88	0.81	0.73	0.79	0.77	0.59	0.79	0.61	0.75	0.82	0.88	0.81	0.72	12.40
5 - 10 kts	0.82	0.90	0.94	1.18	1.21	1.78	1.99	1.83	1.35	1.21	1.85	2.42	1.89	1.40	1.40	1.39	23.57
10 - 15 kts	0.13	0.12	0.04	0.18	1.66	7.69	5.80	2.06	1.94	1.70	1.91	2.08	0.53	0.17	0.16	0.13	26.30
15 - 20 kts	.	.	.	.	0.90	14.10	5.58	0.20	0.57	0.96	1.17	0.51	0.01	.	.	.	24.00
20 - 25 kts	.	.	.	.	0.36	10.24	0.99	.	0.03	0.22	0.14	.	.	.	.	.	11.98
25 - 30 kts	.	.	.	.	0.01	0.95	0.14	.	.	0.01	.	.	.	.	.	.	1.12
30 - 35 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
35 - 40 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
40 - 45 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
45 - 50 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	1.61	1.95	1.98	2.26	4.98	35.50	15.36	4.89	4.59	4.94	5.72	5.78	3.26	2.52	2.39	2.25	100.00