

Angola Namibia CRS Swakopmunds (BU-SW) - July

Latitude: 22.64 S Longitude: 13.12 E

Weather Days

Wave Height > 5.0 ft Mean: 23.8 days Range: 21.0 - 26.6 days p50:24 days p75:22.5 days p90:21 days
Wave Height > 6.5 ft Mean: 17.7 days Range: 13.6 - 21.9 days p50:17.5 days p75:15 days p90:11.5 days
Wave Height > 8.0 ft Mean: 11.4 days Range: 7.7 - 15.2 days p50:11.5 days p75:9 days p90:6 days

Wind Speed > 15.0 knots Mean: 12.7 days Range: 10.1 - 15.3 days p50:12.5 days p75:10.5 days p90:10 days
Wind Speed > 20.0 knots Mean: 4.0 days Range: 2.1 - 5.9 days p50:4 days p75:3 days p90:2 days
Wind Speed > 25.0 knots Mean: 0.5 days Range: 0.1 - 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 0.5 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 < 6.5 ft	A 1 day or longer window will statistically occur 1.9 times per month A 2 day or longer window will statistically occur 1.0 times per month A 3 day or longer window will statistically occur 0.5 times per month
Wave Height < 8.0 ft	A 1 day or longer window will statistically occur 3.1 times per month A 2 day or longer window will statistically occur 2.2 times per month A 3 day or longer window will statistically occur 1.2 times per month

Waves

Mean Height: 8 - 10 ft
The wave heights will occasionally reach 16 - 18 ft, but rarely higher.
Mean Period: 12 - 14 sec
The wave periods will occasionally reach 22 - 24 sec, but rarely longer.
Principle Direction, from: SW
WindSea/Swell: 1% / 99%

Winds

Mean Speed: 10 - 15 kts
The winds will occasionally reach 25 - 30 kts, but rarely greater.
Principle Direction, from: SSE

Currents

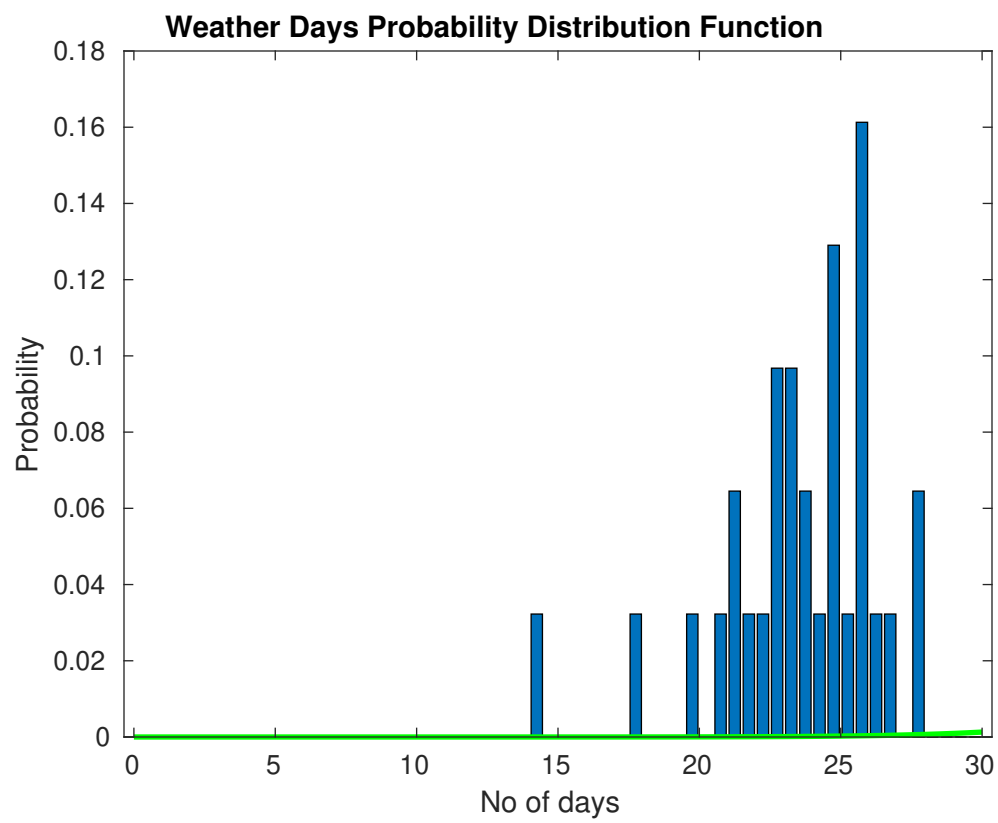
Mean Speed: 0.01-0.25 kts
The currents will occasionally reach 0.50-0.75 kts, but rarely greater.
Principle Direction, to: NNW

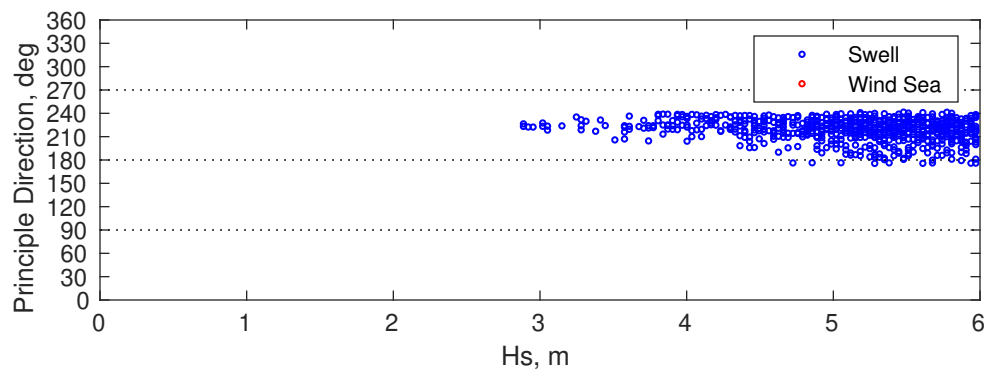
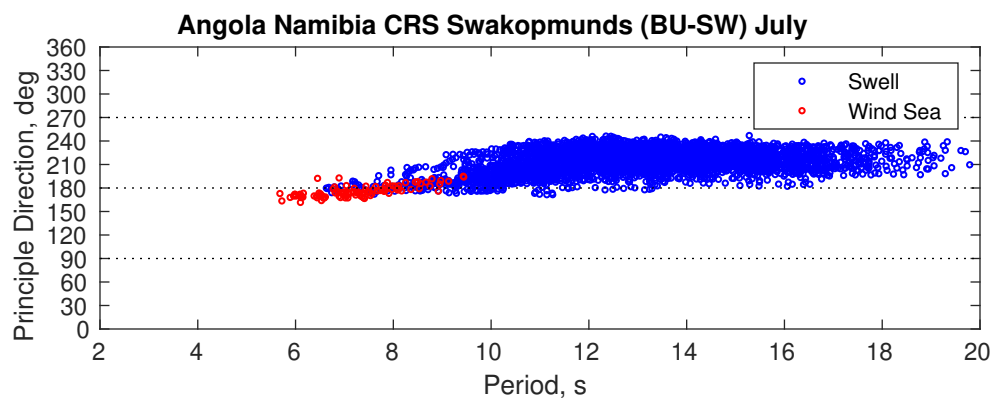
Weather Days

Current Speed > 0.5 knots Mean: 1.3 days Range: 0.2 - 2.3 days p50:3 days p75:1 days p90:1 days
Current Speed > 1.0 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 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

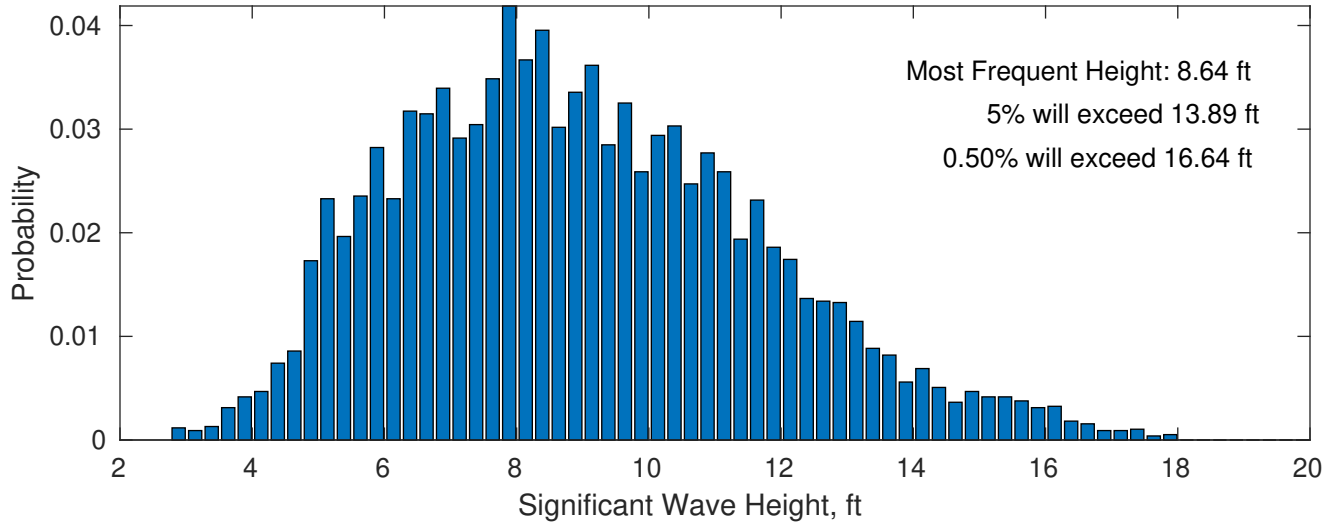
Severe Storms

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

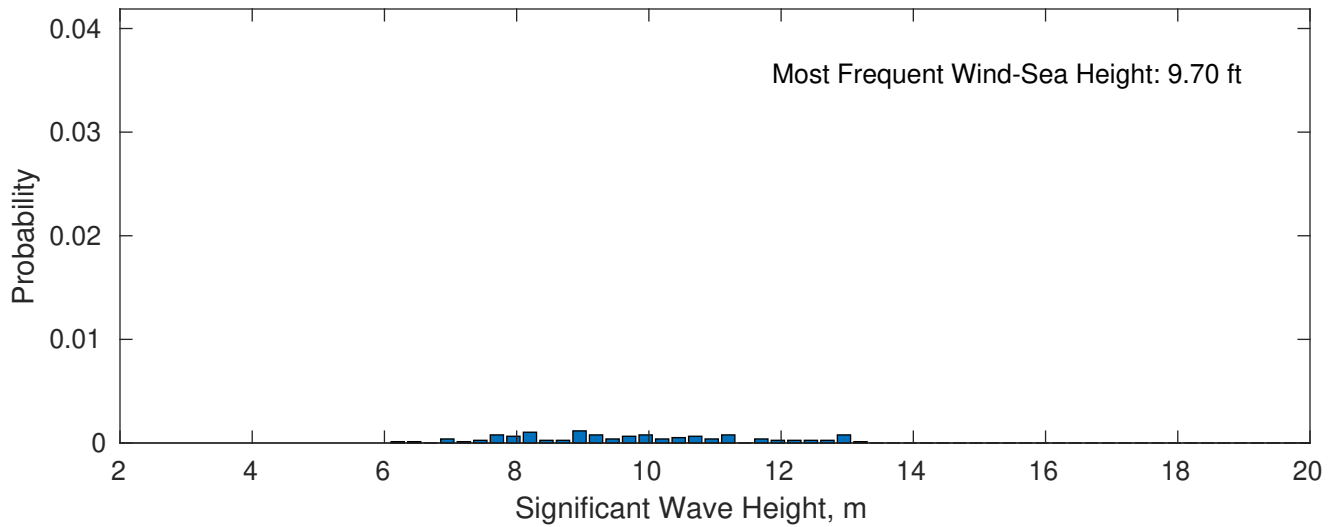




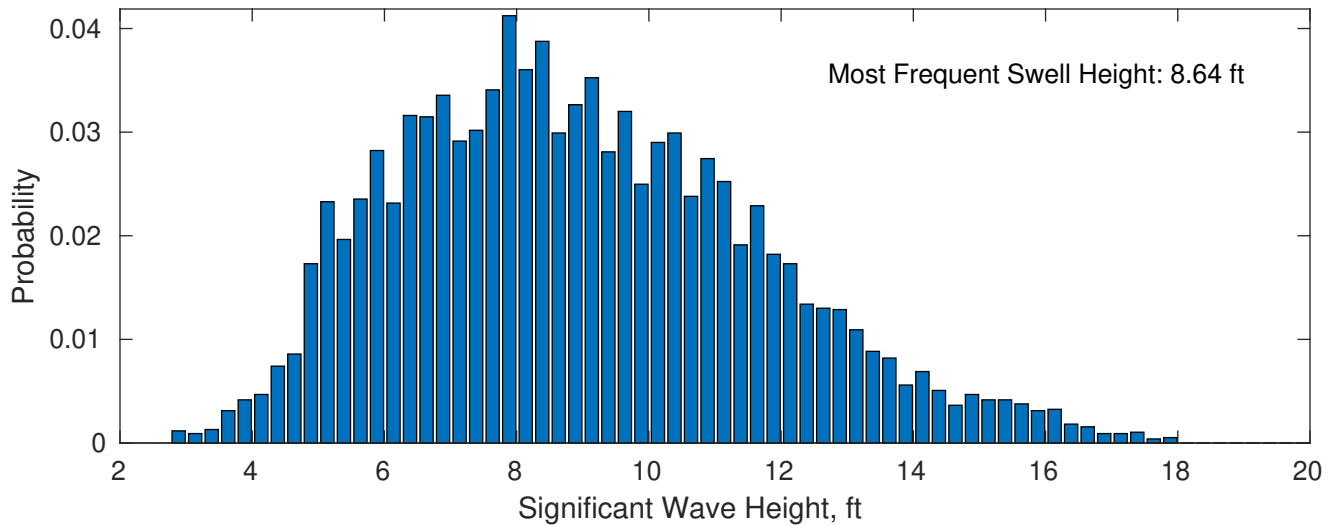
July Wave Height PDF: 1979 - 2015



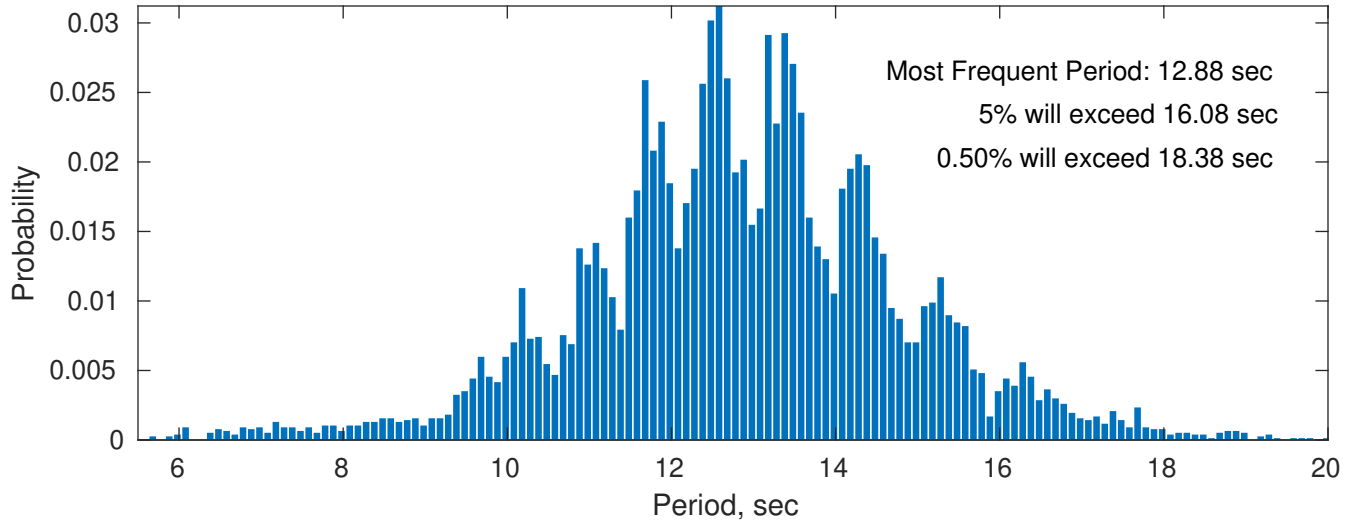
Wind-Sea: 1.29%



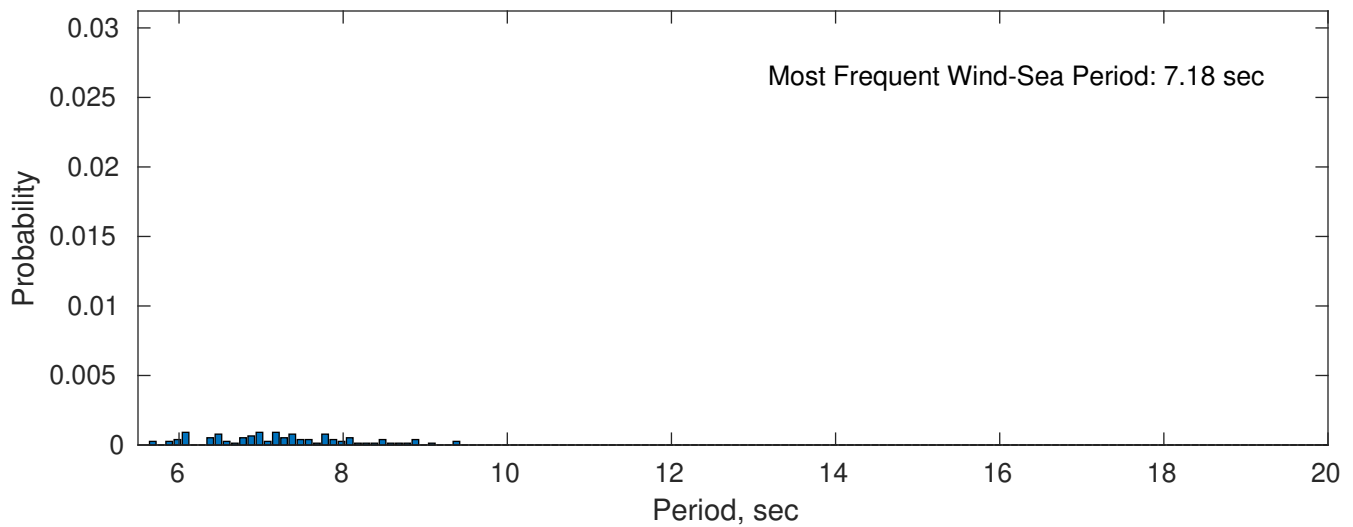
Swell: 98.71%



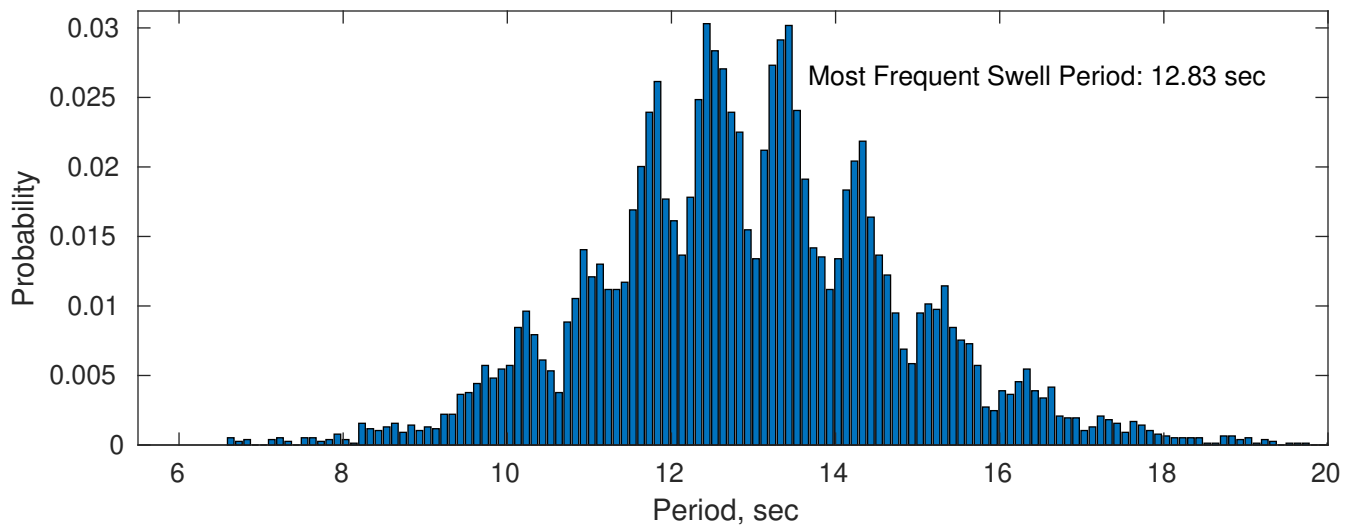
July Peak Wave Period PDF: 1979 - 2015



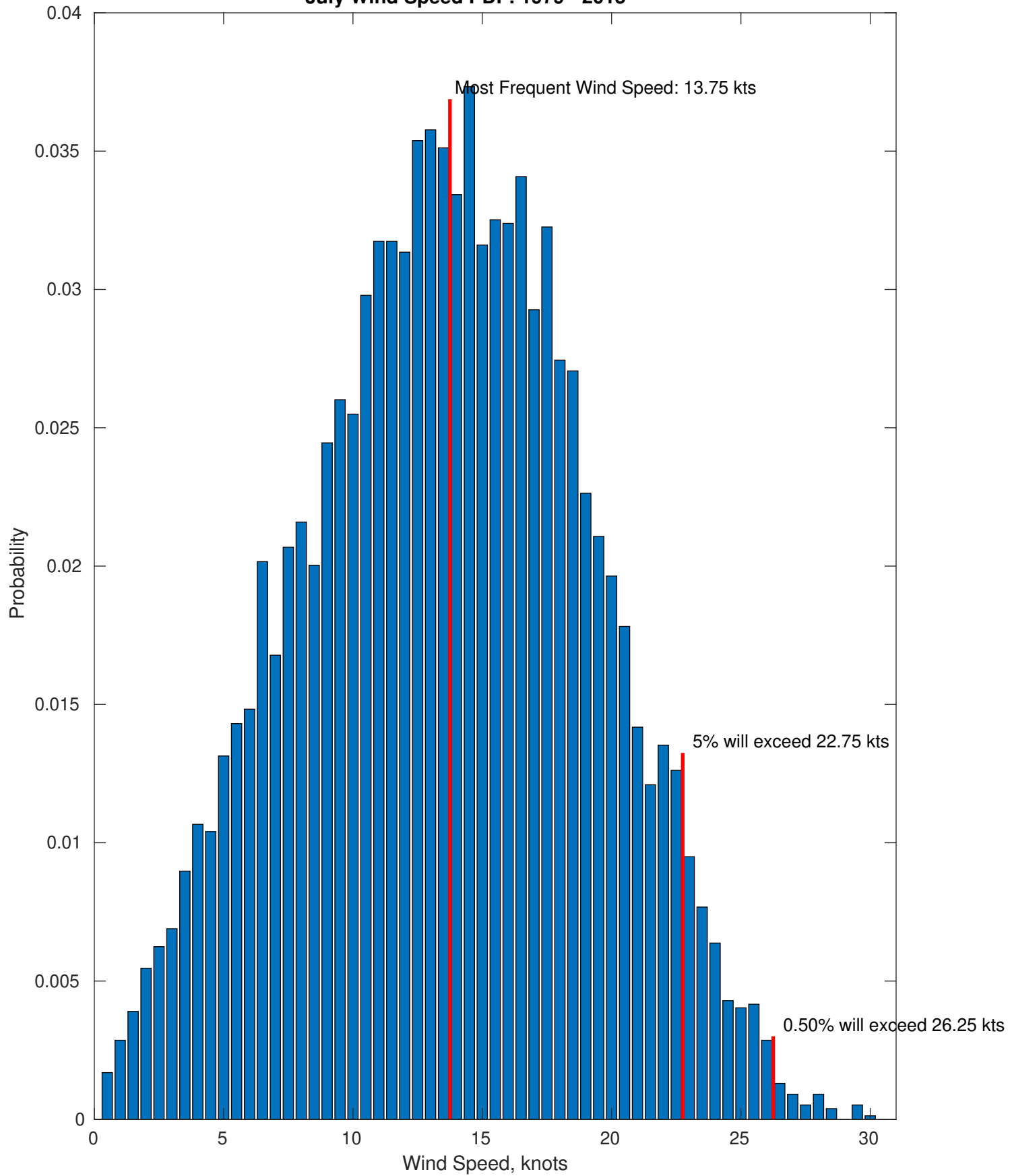
Wind-Sea: 1.29%



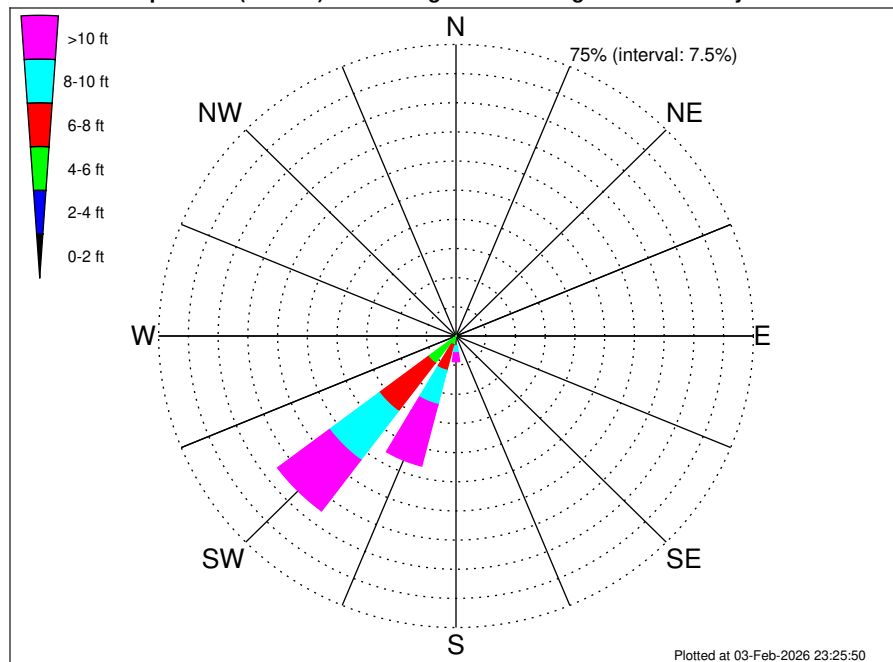
Swell: 98.71%



July Wind Speed PDF: 1979 - 2015



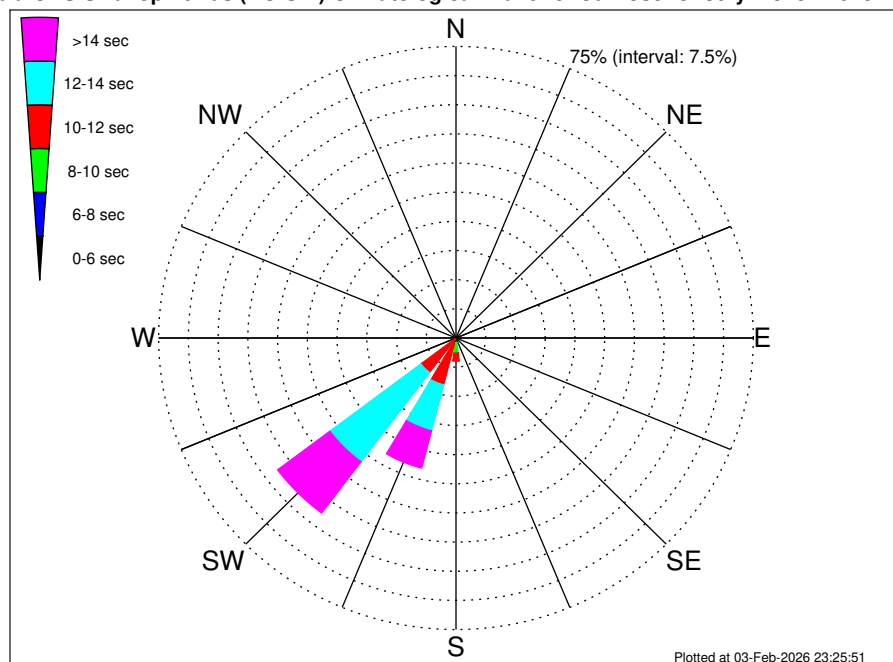
Angola Namibia CRS Swakopmunds (BU-SW) Climatological WaveHeight Rose for July: 1979 - 2015



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	.	.	.	.	.	.	.	.	.	0.05	0.60	0.14	.	.	.	.	0.79
4 - 6 ft	.	.	.	.	.	.	.	.	0.60	2.24	8.16	0.56	.	.	.	.	11.55
6 - 8 ft	.	.	.	.	.	.	.	0.04	1.87	6.85	15.47	0.86	.	.	.	.	25.09
8 - 10 ft	.	.	.	.	.	.	.	0.09	1.89	9.07	15.75	0.49	.	.	.	.	27.29
10 - 12 ft	.	.	.	.	.	.	.	0.07	1.38	8.32	10.50	0.10	.	.	.	.	20.37
12 - 14 ft	.	.	.	.	.	.	.	.	0.79	4.94	4.16	0.08	.	.	.	.	9.98
14 - 16 ft	.	.	.	.	.	.	.	.	0.10	2.20	1.38	0.03	.	.	.	.	3.71
16 - 18 ft	.	.	.	.	.	.	.	.	.	0.87	0.31	.	.	.	.	.	1.18
> 18 ft	.	.	.	.	.	.	.	.	.	0.01	0.03	.	.	.	.	.	0.04
Total	.	.	.	.	.	.	.	0.20	6.63	34.56	56.35	2.26	.	.	.	.	100.00

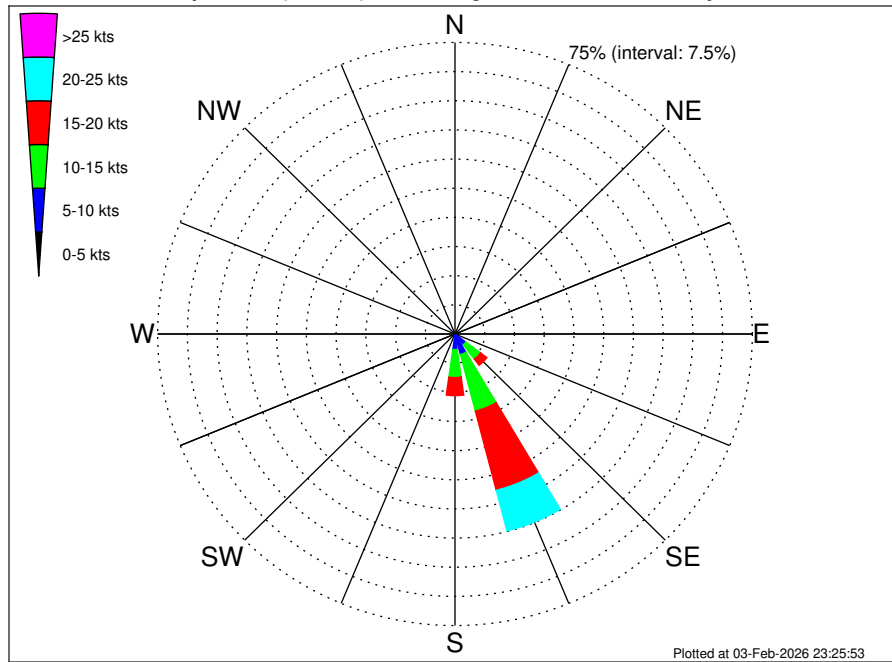
Angola Namibia CRS Swakopmunds (BU-SW) Climatological WavePeriod Rose for July: 1979 - 2015



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	•	•	•	•	•	•	•	0.03	0.05	•	•	•	•	•	•	•	0.08
6 - 8 sec	•	•	•	•	•	•	•	0.17	1.18	0.07	•	•	•	•	•	•	1.42
8 - 10 sec	•	•	•	•	•	•	•	•	2.65	1.57	0.39	•	•	•	•	•	4.62
10 - 12 sec	•	•	•	•	•	•	•	•	2.06	10.81	10.70	0.52	•	•	•	•	24.09
12 - 14 sec	•	•	•	•	•	•	•	•	0.43	12.21	28.76	1.24	•	•	•	•	42.64
14 - 16 sec	•	•	•	•	•	•	•	•	0.18	7.40	13.48	0.40	•	•	•	•	21.46
18 - 20 sec	•	•	•	•	•	•	•	•	0.08	2.24	2.61	0.05	•	•	•	•	4.98
22 - 24 sec	•	•	•	•	•	•	•	•	•	0.26	0.40	0.05	•	•	•	•	0.72
Total	•	•	•	•	•	•	•	0.20	6.63	34.56	56.35	2.26	•	•	•	•	100.00

Angola Namibia CRS Swakopmunds (BU-SW) Climatological Wind Rose for July: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	0.03	•	0.01	0.01	0.01	0.01	0.01	0.01	•	•	•	•	0.04	0.01	0.01	0.17
0 - 5 kts	0.26	0.31	0.34	0.36	0.53	0.59	0.46	0.62	0.47	0.48	0.30	0.20	0.18	0.22	0.13	0.09	5.54
5 - 10 kts	0.25	0.44	0.74	0.96	1.03	1.50	2.98	4.81	3.52	1.37	0.61	0.26	0.18	0.21	0.09	0.25	19.20
10 - 15 kts	0.07	0.18	0.60	1.01	0.91	1.17	4.64	15.04	7.19	1.25	0.27	0.12	0.07	0.05	0.07	0.08	32.71
15 - 20 kts	0.01	•	0.10	0.46	0.23	0.21	1.99	21.05	4.67	0.20	0.05	•	•	0.03	•	0.04	29.03
20 - 25 kts	•	•	•	•	•	•	0.21	10.80	0.74	0.03	•	•	•	•	•	•	11.77
25 - 30 kts	•	•	•	•	•	•	0.01	1.55	•	•	•	•	•	•	•	•	1.56
30 - 35 kts	•	•	•	•	•	•	•	0.01	•	•	•	•	•	•	•	•	0.01
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.59	0.96	1.78	2.81	2.72	3.47	10.30	53.89	16.61	3.32	1.24	0.57	0.43	0.55	0.30	0.47	100.00