

Angola Namibia CRS Swakopmunds (BU-SW) - November

Latitude: 22.64 S Longitude: 13.12 E

Weather Days

Wave Height > 5.0 ft Mean: 25.4 days Range: 23.0 - 27.8 days p50:25 days p75:24 days p90:23 days
Wave Height > 6.5 ft Mean: 19.1 days Range: 15.7 - 22.6 days p50:20 days p75:16.5 days p90:14.5 days
Wave Height > 8.0 ft Mean: 11.4 days Range: 7.8 - 15.1 days p50:12 days p75:7.5 days p90:7 days

Wind Speed > 15.0 knots Mean: 13.2 days Range: 10.4 - 16.0 days p50:13 days p75:11.5 days p90:10 days
Wind Speed > 20.0 knots Mean: 3.1 days Range: 1.6 - 4.6 days p50:3 days p75:2 days p90:2 days
Wind Speed > 25.0 knots Mean: 0.2 days Range: 0.0 - 0.6 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 0.4 times per month A 2 day or longer window will statistically occur 0.0 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 2.1 times per month A 3 day or longer window will statistically occur 1.4 times per month

Waves

Mean Height: 8 - 10 ft
The wave heights will occasionally reach 14 - 16 ft, but rarely higher.
Mean Period: 10 - 12 sec
The wave periods will occasionally reach 18 - 20 sec, but rarely longer.
Principle Direction, from: SW
WindSea/Swell: 7% / 93%

Winds

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

Currents

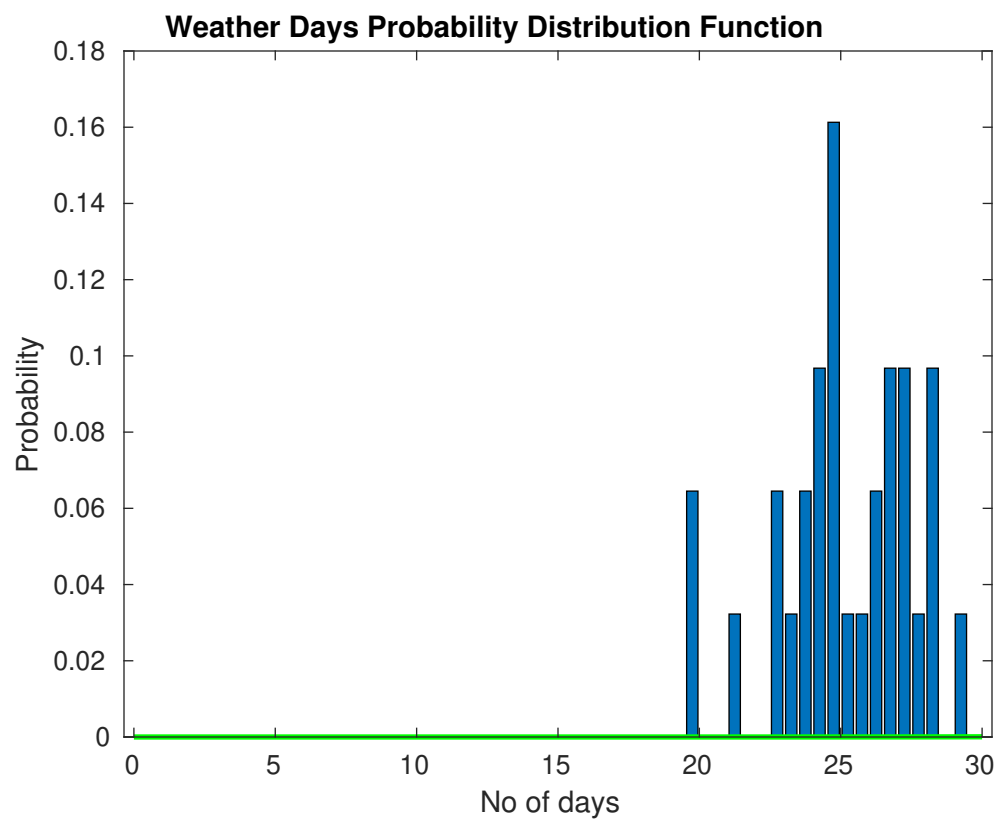
Mean Speed: 0.25-0.50 kts
The currents will occasionally reach 0.75-1.00 kts, but rarely greater.
Principle Direction, to: NNW

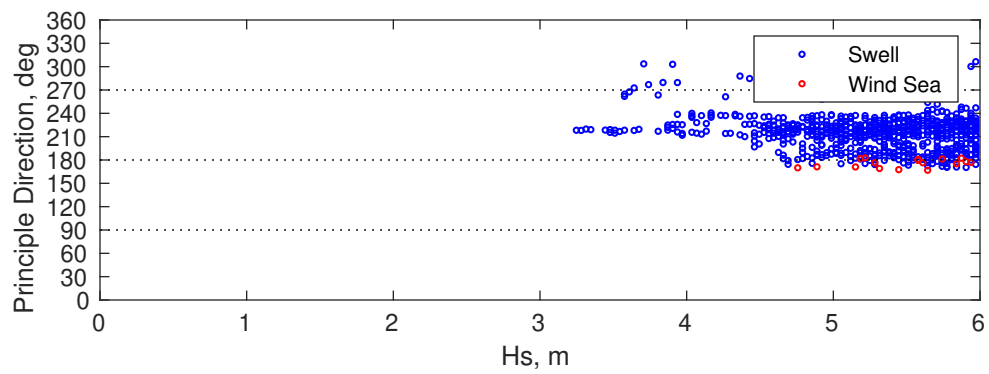
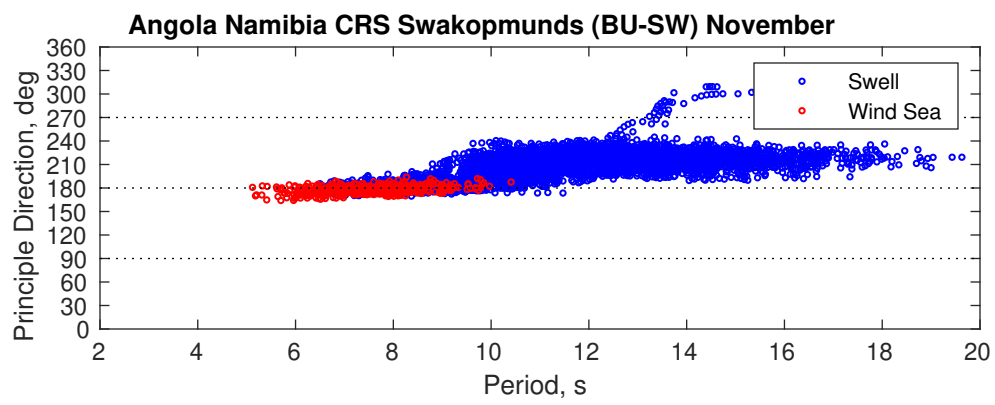
Weather Days

Current Speed > 0.5 knots Mean: 3.0 days Range: 0.2 - 5.8 days p50:3 days p75:2 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

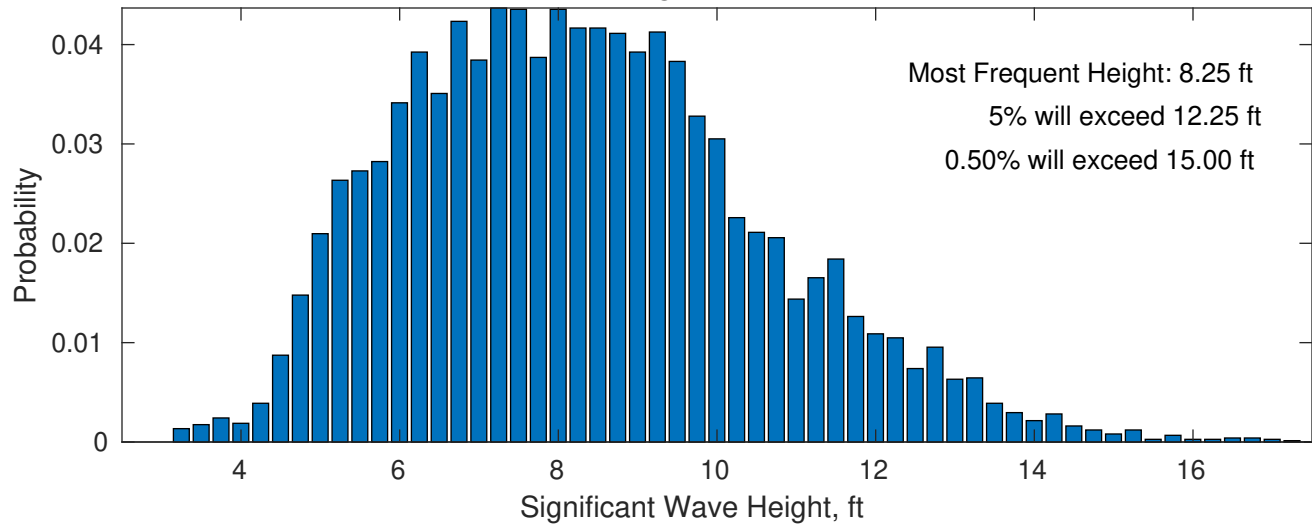
Severe Storms

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

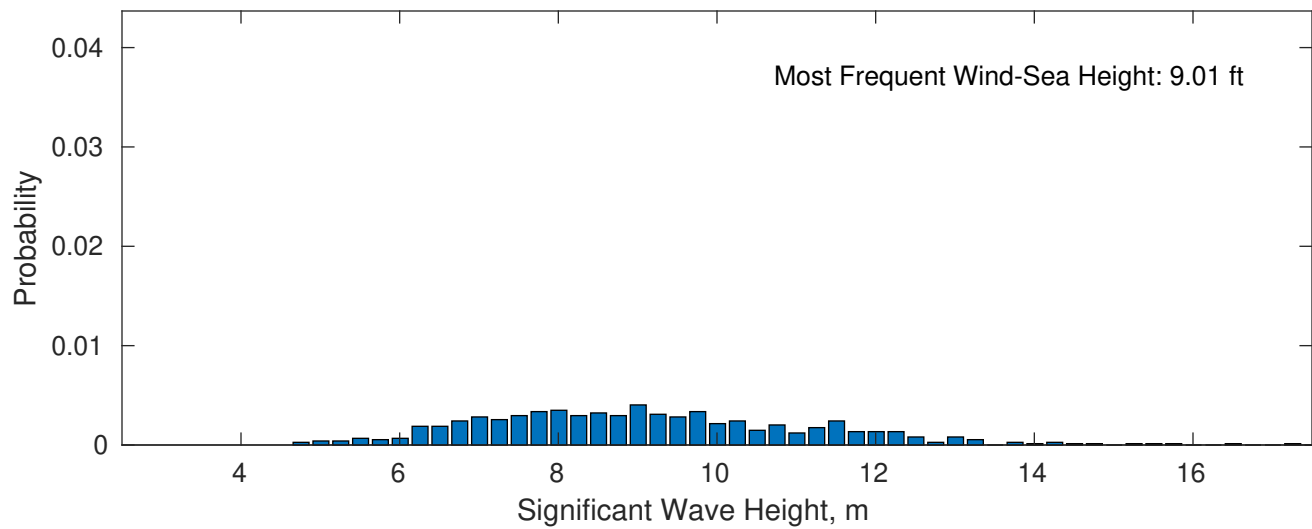




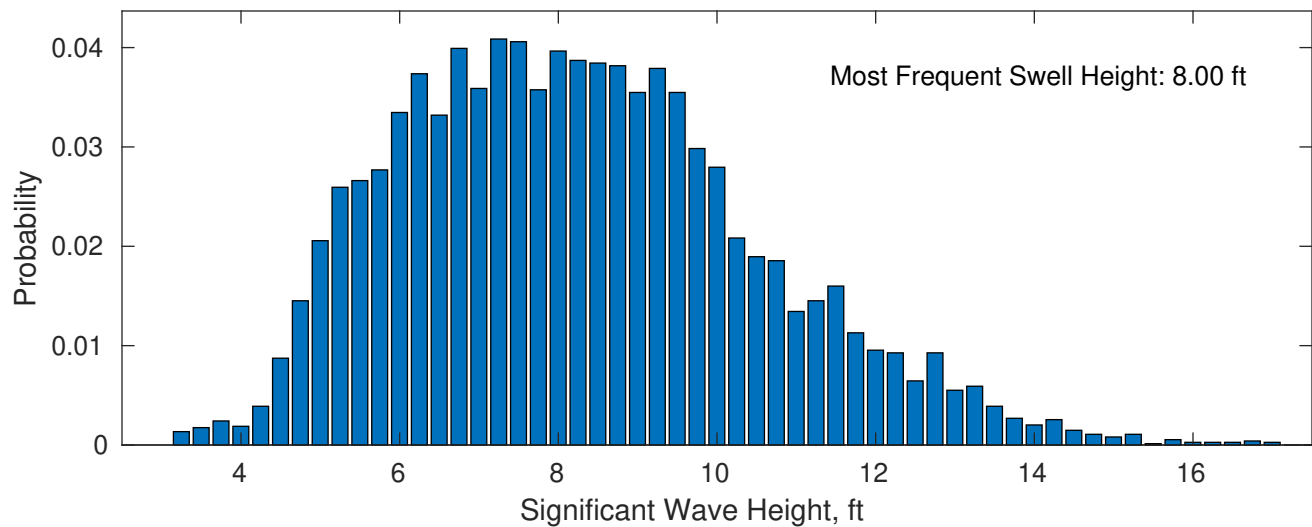
November Wave Height PDF: 1979 - 2015



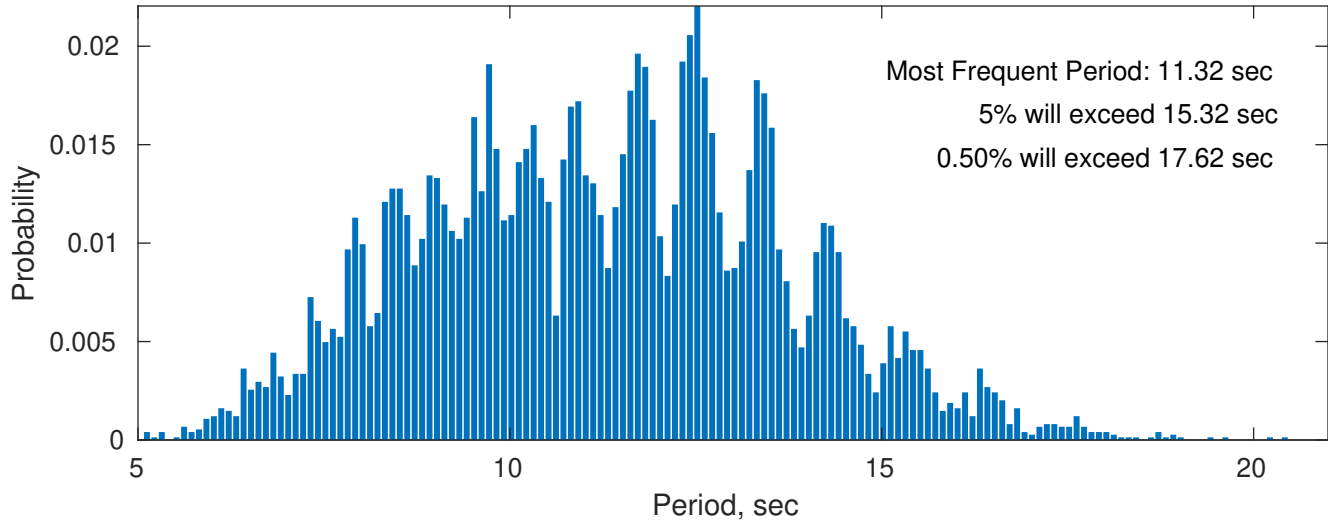
Wind-Sea: 6.83%



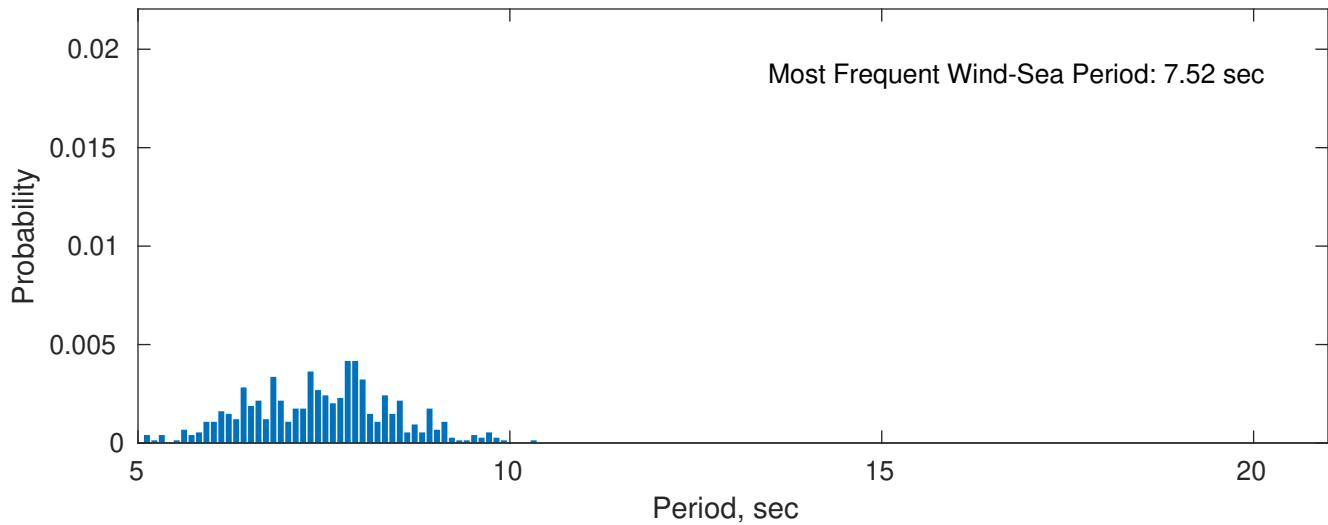
Swell: 93.17%



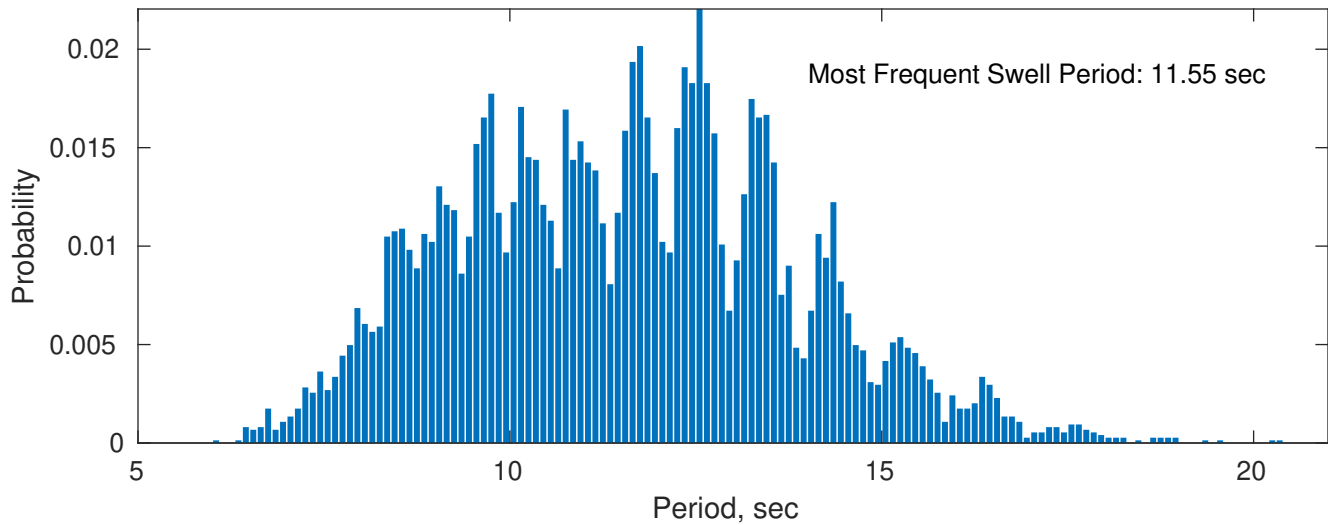
November Peak Wave Period PDF: 1979 - 2015



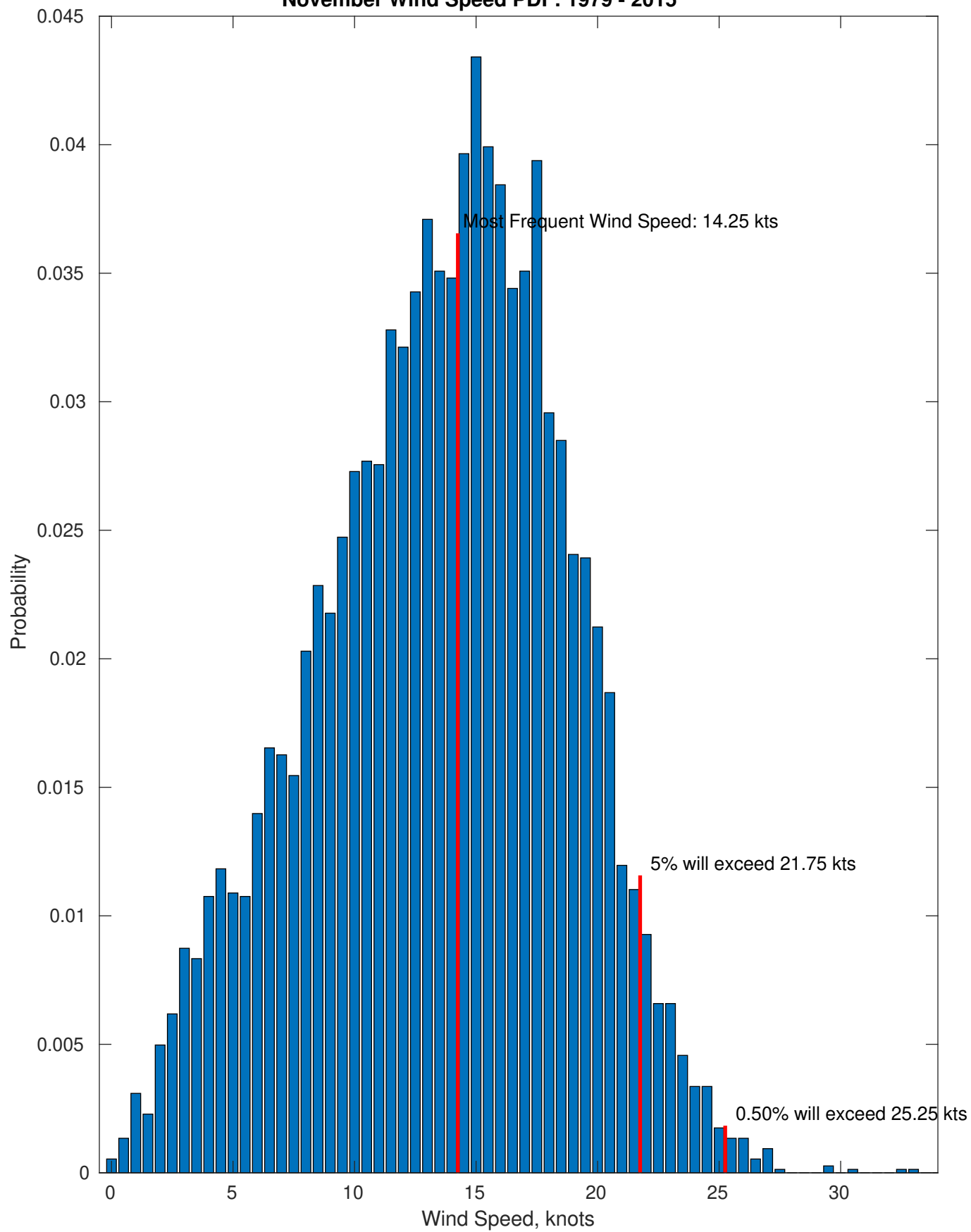
Wind-Sea: 6.83%



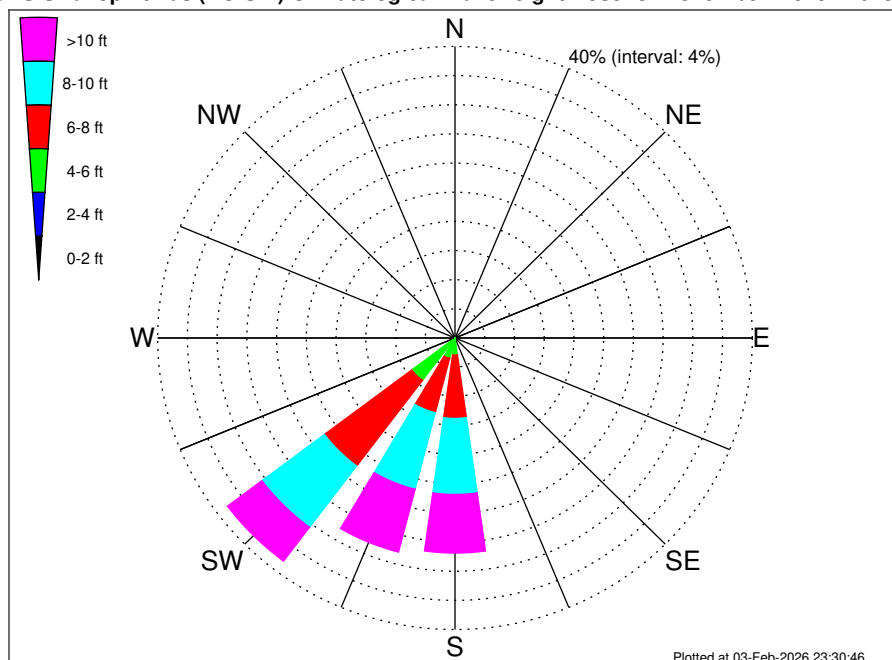
Swell: 93.17%



November Wind Speed PDF: 1979 - 2015



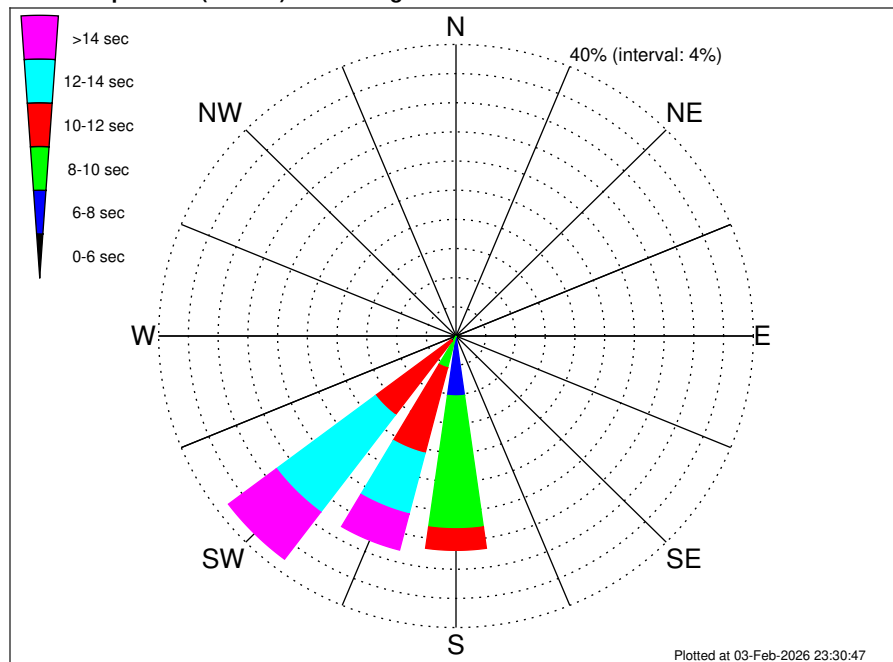
Angola Namibia CRS Swakopmunds (BU-SW) Climatological WaveHeight Rose for November: 1979 - 2015



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	•	•	•	•	•	•	•	•	•	0.01	0.39	0.01	0.11	0.03	•	•	0.55
4 - 6 ft	•	•	•	•	•	•	•	0.03	2.35	2.86	6.90	0.69	0.09	0.22	0.08	•	13.21
6 - 8 ft	•	•	•	•	•	•	•	0.15	8.68	7.72	14.70	0.23	•	0.01	0.03	•	31.52
8 - 10 ft	•	•	•	•	•	•	•	0.03	10.43	10.85	10.54	0.12	•	•	•	•	31.96
10 - 12 ft	•	•	•	•	•	•	•	•	5.50	5.95	4.21	0.01	•	•	•	•	15.67
12 - 14 ft	•	•	•	•	•	•	•	•	2.12	2.65	1.02	•	•	•	•	•	5.79
14 - 16 ft	•	•	•	•	•	•	•	•	0.28	0.30	0.50	•	•	•	•	•	1.08
16 - 18 ft	•	•	•	•	•	•	•	•	0.09	•	0.08	•	•	•	•	•	0.17
> 18 ft	•	•	•	•	•	•	•	•	0.04	•	•	•	•	•	•	•	0.04
Total	•	•	•	•	•	•	•	0.20	29.50	30.34	38.33	1.06	0.20	0.26	0.11	•	100.00

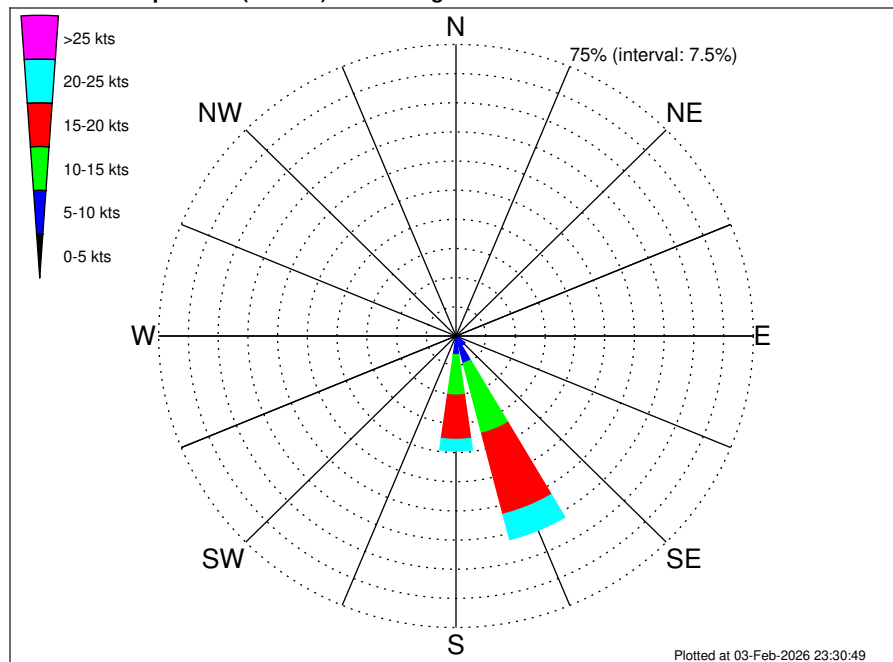
Angola Namibia CRS Swakopmunds (BU-SW) Climatological WavePeriod Rose for November: 1979 - 2015



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	•	•	•	•	•	•	•	0.07	0.27	•	•	•	•	•	•	•	0.34
6 - 8 sec	•	•	•	•	•	•	•	0.13	7.96	0.08	•	•	•	•	•	•	8.17
8 - 10 sec	•	•	•	•	•	•	•	•	18.23	4.42	0.82	0.04	•	•	•	•	23.51
10 - 12 sec	•	•	•	•	•	•	•	•	2.96	12.12	12.76	0.34	•	•	•	•	28.17
12 - 14 sec	•	•	•	•	•	•	•	•	0.01	8.59	16.68	0.59	0.20	0.12	•	•	26.20
14 - 16 sec	•	•	•	•	•	•	•	•	0.08	4.17	6.20	0.09	•	0.13	0.11	•	10.78
18 - 20 sec	•	•	•	•	•	•	•	•	•	0.89	1.68	•	•	•	•	•	2.57
22 - 24 sec	•	•	•	•	•	•	•	•	•	0.07	0.20	•	•	•	•	•	0.27
Total	•	•	•	•	•	•	•	0.20	29.50	30.34	38.33	1.06	0.20	0.26	0.11	•	100.00

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



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.01	0.01	•	0.01	•	0.03	•	•	0.01	0.01	•	0.03	0.01	•	0.01	0.04	0.19
0 - 5 kts	0.13	0.19	0.17	0.13	0.17	0.54	0.66	0.86	0.73	0.58	0.35	0.26	0.22	0.28	0.16	0.19	5.62
5 - 10 kts	0.09	0.05	0.09	0.07	0.16	0.46	2.18	6.34	4.06	1.81	0.81	0.39	0.22	0.20	0.19	0.23	17.35
10 - 15 kts	•	0.01	•	•	•	0.03	1.52	18.64	10.42	1.75	0.31	0.09	0.01	0.01	0.03	0.01	32.84
15 - 20 kts	•	•	•	•	•	•	0.23	21.52	11.38	0.50	0.01	•	•	•	•	0.03	33.67
20 - 25 kts	•	•	•	•	•	•	•	6.71	2.94	0.01	•	•	•	•	•	•	9.66
25 - 30 kts	•	•	•	•	•	•	•	0.51	0.12	•	•	•	•	•	•	•	0.63
30 - 35 kts	•	•	•	•	•	•	•	0.04	•	•	•	•	•	•	•	•	0.04
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.24	0.27	0.27	0.22	0.34	1.05	4.58	54.62	29.66	4.66	1.48	0.77	0.46	0.50	0.39	0.50	100.00