

Angola Namibia CRS Swakopmunds (BU-SW) - December

Latitude: 22.64 S Longitude: 13.12 E

Weather Days

Wave Height > 5.0 ft Mean: 23.7 days Range: 20.1 - 27.3 days p50:24.5 days p75:21 days p90:19.5 days
Wave Height > 6.5 ft Mean: 16.0 days Range: 11.9 - 20.0 days p50:17 days p75:13.5 days p90:11.5 days
Wave Height > 8.0 ft Mean: 7.9 days Range: 4.4 - 11.5 days p50:8.5 days p75:5 days p90:3.5 days

Wind Speed > 15.0 knots Mean: 9.8 days Range: 6.7 - 12.9 days p50:10 days p75:7.5 days p90:7 days
Wind Speed > 20.0 knots Mean: 1.5 days Range: 0.5 - 2.5 days p50:2 days p75:0.5 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 0.7 times per month A 2 day or longer window will statistically occur 0.3 times per month A 3 day or longer window will statistically occur 0.1 times per month
Wave Height < 6.5 ft	A 1 day or longer window will statistically occur 2.3 times per month A 2 day or longer window will statistically occur 1.4 times per month A 3 day or longer window will statistically occur 0.7 times per month
Wave Height < 8.0 ft	A 1 day or longer window will statistically occur 3.6 times per month A 2 day or longer window will statistically occur 2.8 times per month A 3 day or longer window will statistically occur 1.9 times per month

Waves

Mean Height: 6 - 8 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: 4% / 96%

Winds

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

Currents

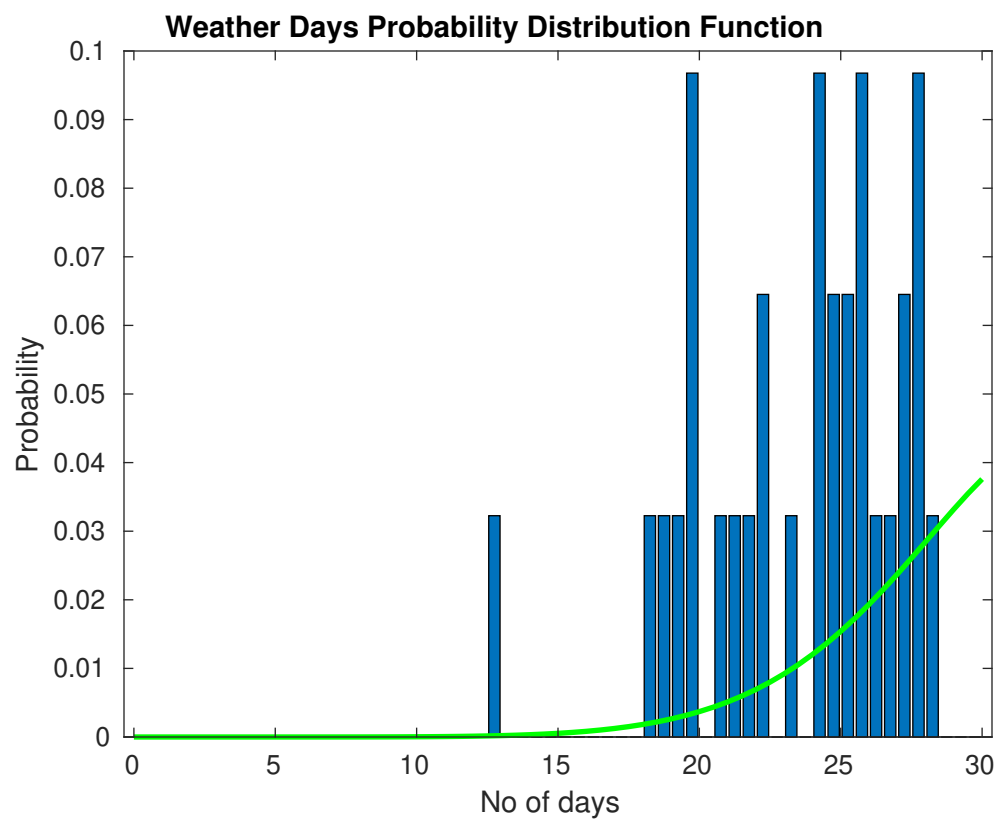
Mean Speed: 0.01-0.25 kts
The currents will occasionally reach 0.50-0.75 kts, but rarely greater.
Principle Direction, to: NNW

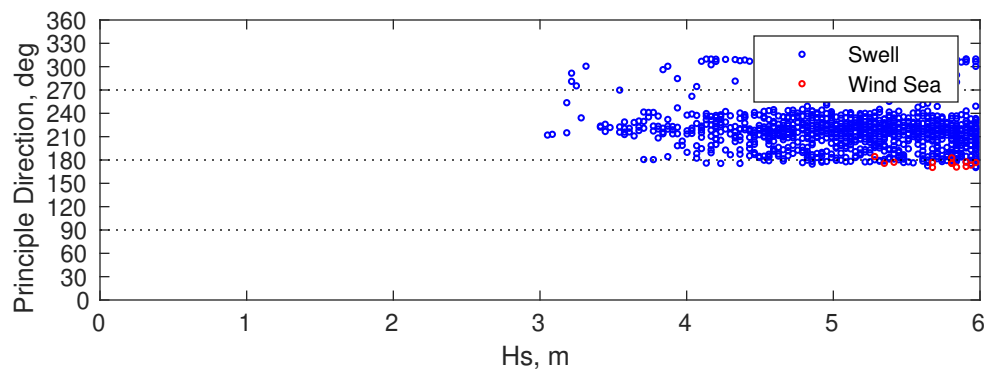
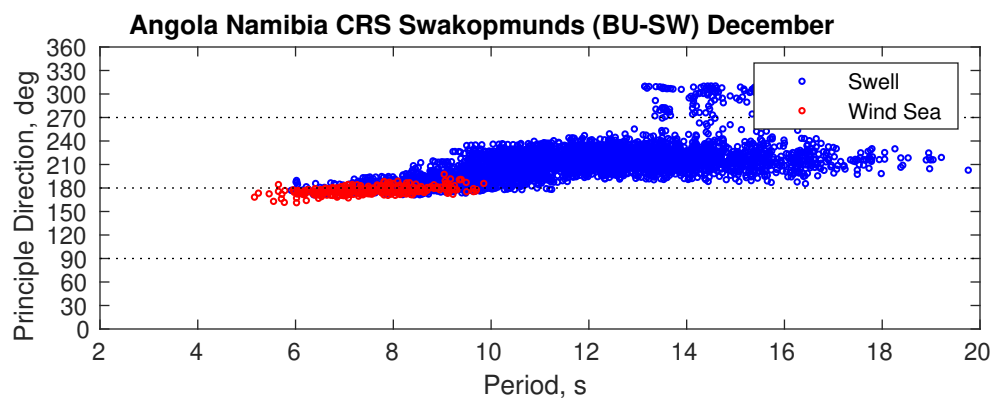
Weather Days

Current Speed > 0.5 knots Mean: 1.2 days Range: 0.0 - 2.9 days p50:2 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

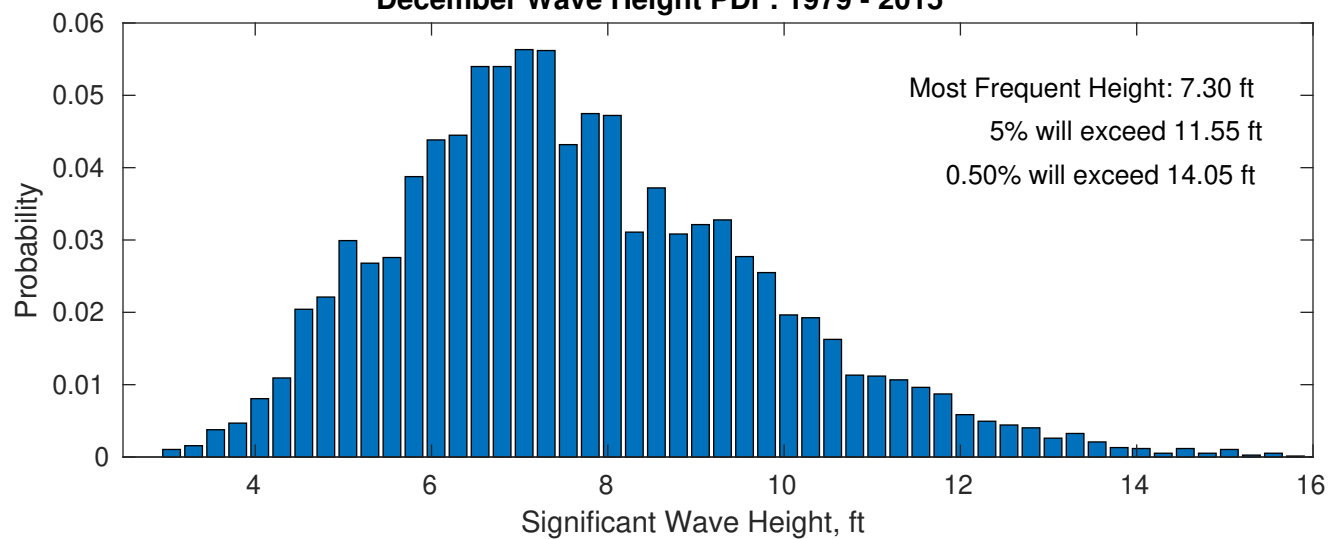
Severe Storms

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

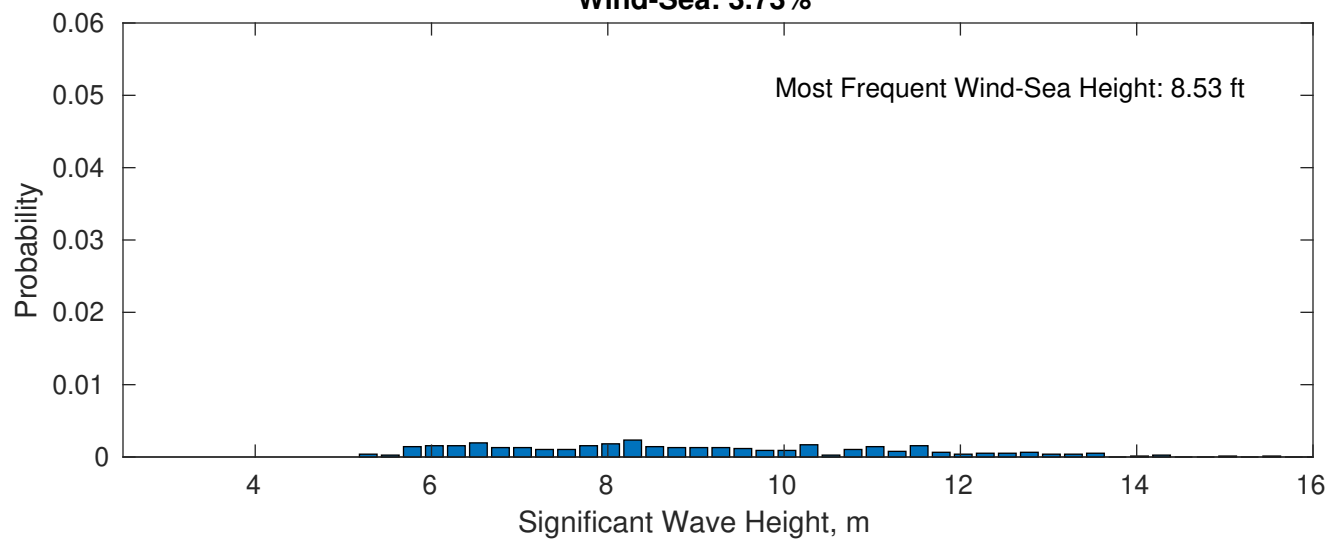




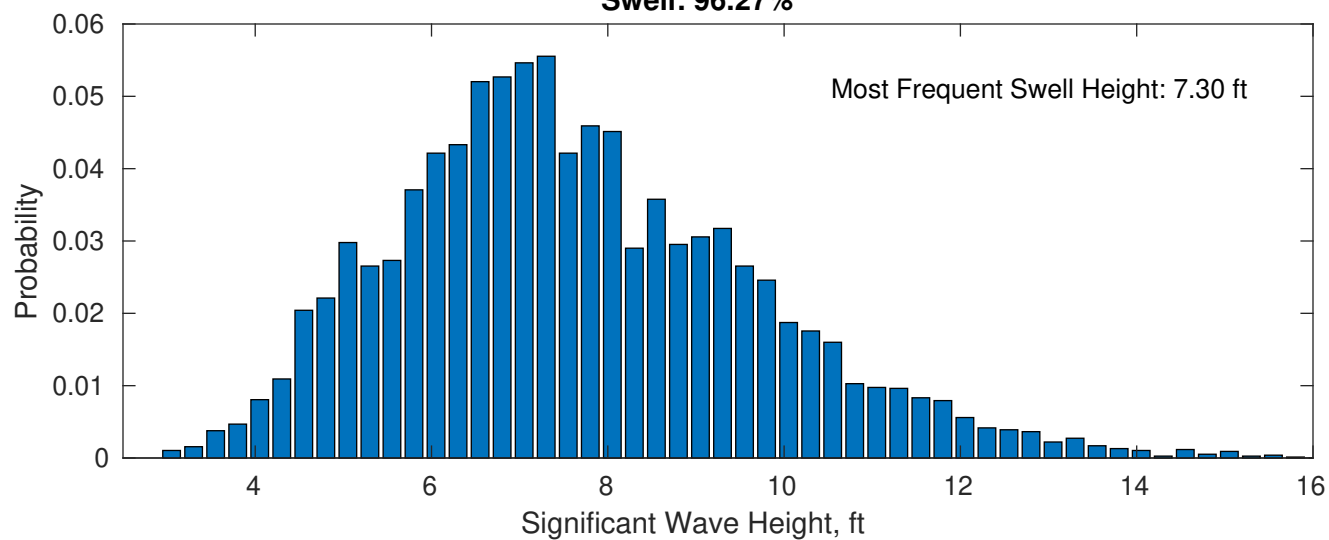
December Wave Height PDF: 1979 - 2015



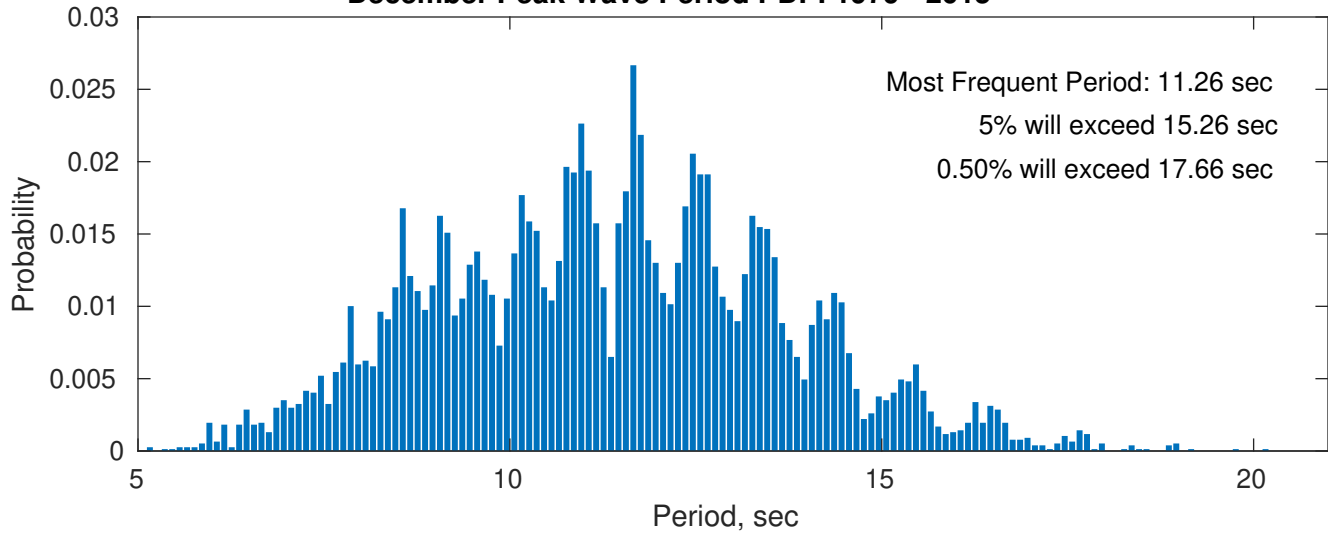
Wind-Sea: 3.73%



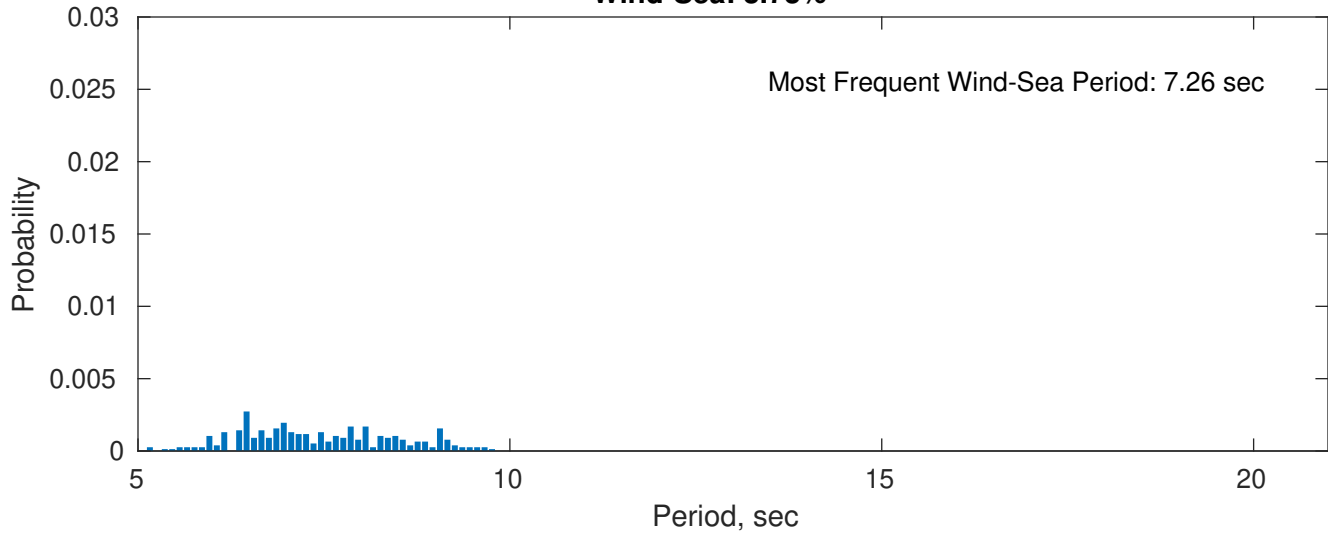
Swell: 96.27%



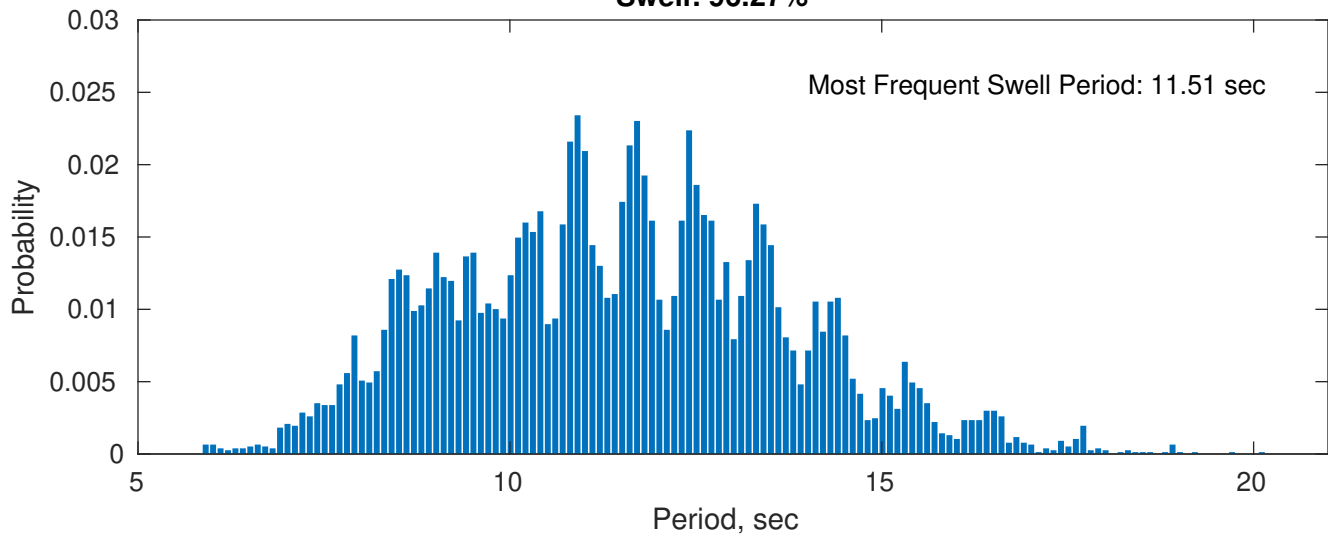
December Peak Wave Period PDF: 1979 - 2015



Wind-Sea: 3.73%

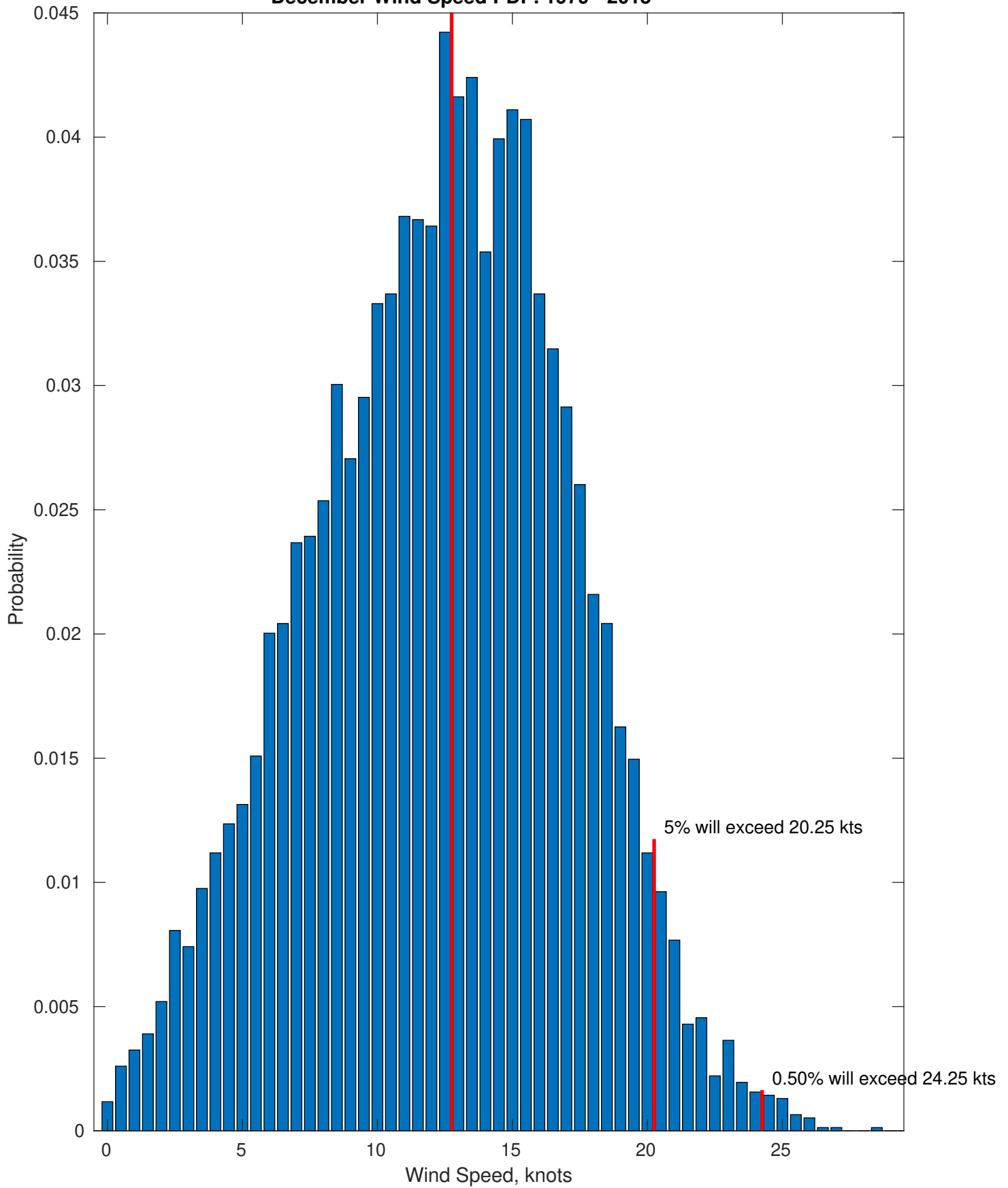


Swell: 96.27%

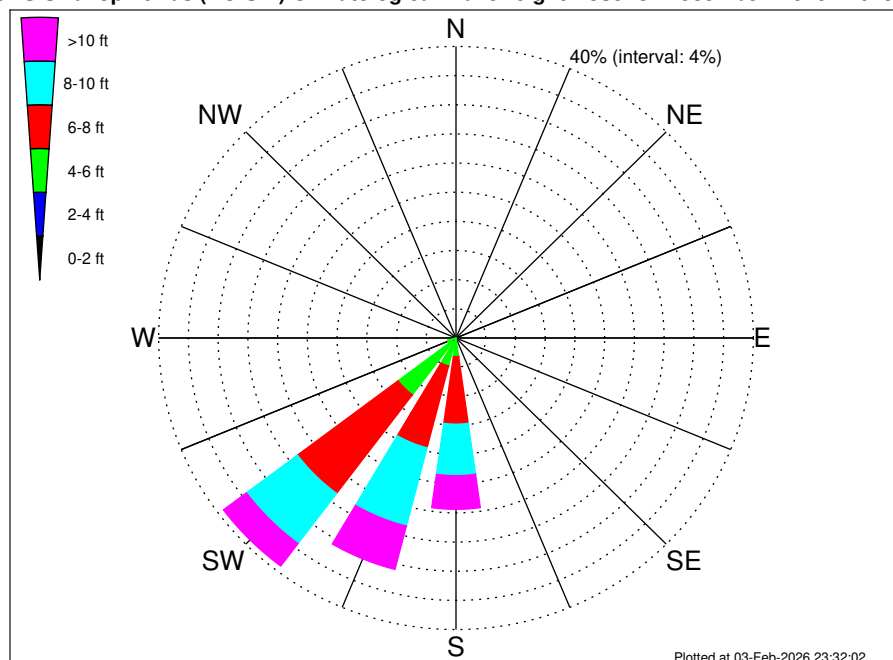


Most Frequent Wind Speed: 12.75 kts

December Wind Speed PDF: 1979 - 2015



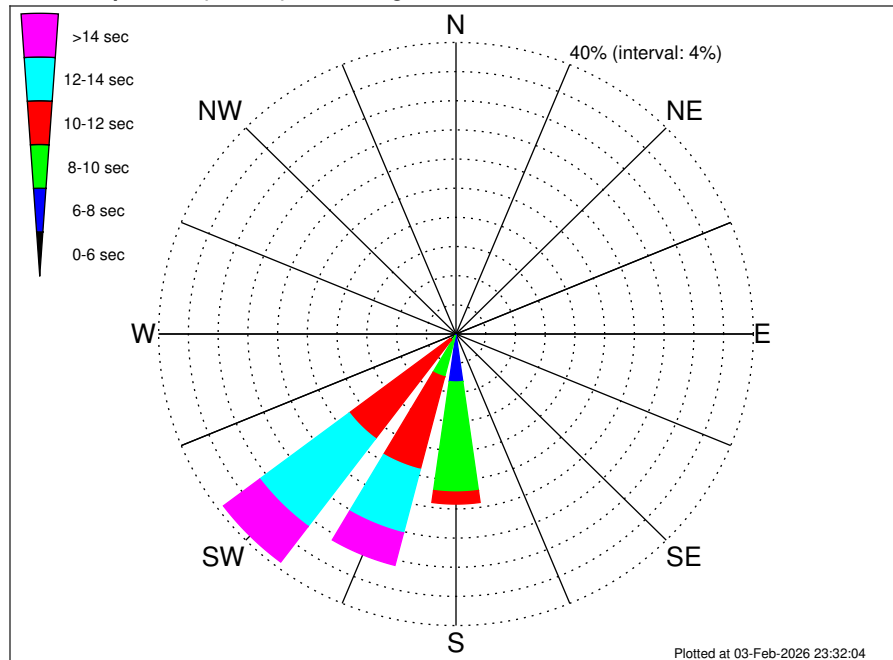
Angola Namibia CRS Swakopmunds (BU-SW) Climatological WaveHeight Rose for December: 1979 - 2015



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	•	•	•	•	•	•	•	•	0.04	0.13	0.62	0.08	0.04	0.07	•	•	0.98
4 - 6 ft	•	•	•	•	•	•	•	•	2.52	3.84	9.13	1.12	0.17	0.23	0.65	•	17.66
6 - 8 ft	•	•	•	•	•	•	•	0.09	9.26	11.59	16.95	0.73	0.20	0.47	0.39	•	39.67
8 - 10 ft	•	•	•	•	•	•	•	0.04	7.06	11.10	8.61	0.18	0.03	0.04	•	•	27.06
10 - 12 ft	•	•	•	•	•	•	•	•	3.30	4.53	3.16	0.01	•	•	•	•	11.00
12 - 14 ft	•	•	•	•	•	•	•	•	1.07	1.31	0.68	•	•	•	•	•	3.06
14 - 16 ft	•	•	•	•	•	•	•	•	0.25	0.30	0.03	•	•	•	•	•	0.57
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	•	•	•	•	•	•	0.13	23.50	32.79	39.18	2.12	0.43	0.81	1.04	•	100.00

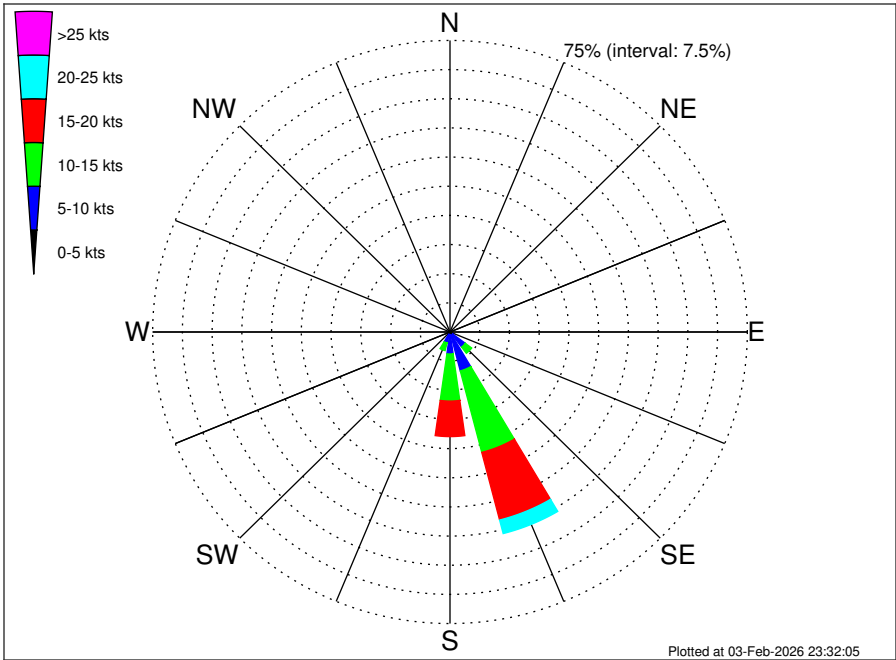
Angola Namibia CRS Swakopmunds (BU-SW) Climatological WavePeriod Rose for December: 1979 - 2015



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	•	•	•	•	•	•	•	0.05	0.16	•	•	•	•	•	•	•	0.21
6 - 8 sec	•	•	•	•	•	•	•	0.08	6.43	0.27	•	•	•	•	•	•	6.78
8 - 10 sec	•	•	•	•	•	•	•	•	15.10	5.79	0.99	•	•	•	•	•	21.88
10 - 12 sec	•	•	•	•	•	•	•	•	1.65	13.12	16.99	0.44	•	•	•	•	32.21
12 - 14 sec	•	•	•	•	•	•	•	•	0.03	9.00	15.08	0.99	0.13	0.07	0.23	•	25.52
14 - 16 sec	•	•	•	•	•	•	•	•	0.12	3.73	4.86	0.61	0.23	0.55	0.48	•	10.59
18 - 20 sec	•	•	•	•	•	•	•	•	0.03	0.82	1.11	0.08	0.07	0.20	0.30	•	2.59
22 - 24 sec	•	•	•	•	•	•	•	•	•	0.05	0.16	•	•	•	0.03	•	0.23
Total	•	•	•	•	•	•	•	0.13	23.50	32.79	39.18	2.12	0.43	0.81	1.04	•	100.00

Angola Namibia CRS Swakopmunds (BU-SW) Climatological Wind Rose for December: 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	0.05	0.01	0.01	0.05	0.04	0.03	0.03	0.04	0.03	0.01	0.01	0.01	0.03	•	0.38
0 - 5 kts	0.10	0.16	0.10	0.31	0.39	0.68	0.83	0.96	0.68	0.62	0.27	0.36	0.12	0.09	0.18	0.25	6.11
5 - 10 kts	0.05	0.07	0.03	0.04	0.13	0.53	3.97	9.34	4.96	2.24	0.66	0.27	0.16	0.16	0.14	0.09	22.83
10 - 15 kts	0.01	•	•	•	•	•	2.02	21.66	12.11	2.06	0.10	0.04	•	0.01	•	0.04	38.05
15 - 20 kts	•	•	•	•	•	•	0.13	17.98	9.14	0.27	0.01	•	•	•	•	•	27.54
20 - 25 kts	•	•	•	•	•	•	•	3.60	1.21	•	•	•	•	•	•	•	4.81
25 - 30 kts	•	•	•	•	•	•	•	0.22	0.07	•	•	•	•	•	•	•	0.29
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.17	0.25	0.18	0.36	0.53	1.26	6.98	53.79	28.19	5.23	1.08	0.69	0.29	0.27	0.35	0.38	100.00