

Angola Namibia CRS Oranjemund (BU-OR) - January

Latitude: 27.84 S Longitude: 14.78 E

Weather Days

Wave Height > 5.0 ft Mean: 25.9 days Range: 23.3 - 28.4 days p50:26 days p75:24.5 days p90:24 days
Wave Height > 6.5 ft Mean: 19.8 days Range: 16.5 - 23.0 days p50:20.5 days p75:18 days p90:14 days
Wave Height > 8.0 ft Mean: 11.8 days Range: 9.2 - 14.5 days p50:12 days p75:10 days p90:8.5 days

Wind Speed > 15.0 knots Mean: 19.9 days Range: 16.5 - 23.3 days p50:20.5 days p75:19 days p90:14.5 days
Wind Speed > 20.0 knots Mean: 10.9 days Range: 7.7 - 14.1 days p50:11 days p75:9 days p90:6.5 days
Wind Speed > 25.0 knots Mean: 2.9 days Range: 1.5 - 4.3 days p50:3 days p75:2.5 days p90:1.5 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 0.2 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 1.8 times per month A 2 day or longer window will statistically occur 0.8 times per month A 3 day or longer window will statistically occur 0.4 times per month
Wave Height < 8.0 ft	A 1 day or longer window will statistically occur 4.0 times per month A 2 day or longer window will statistically occur 2.3 times per month A 3 day or longer window will statistically occur 1.3 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: 11% / 89%

Winds

Mean Speed: 15 - 20 kts
The winds will occasionally reach 30 - 35 kts, but rarely greater.
Principle Direction, from: SSE

Currents

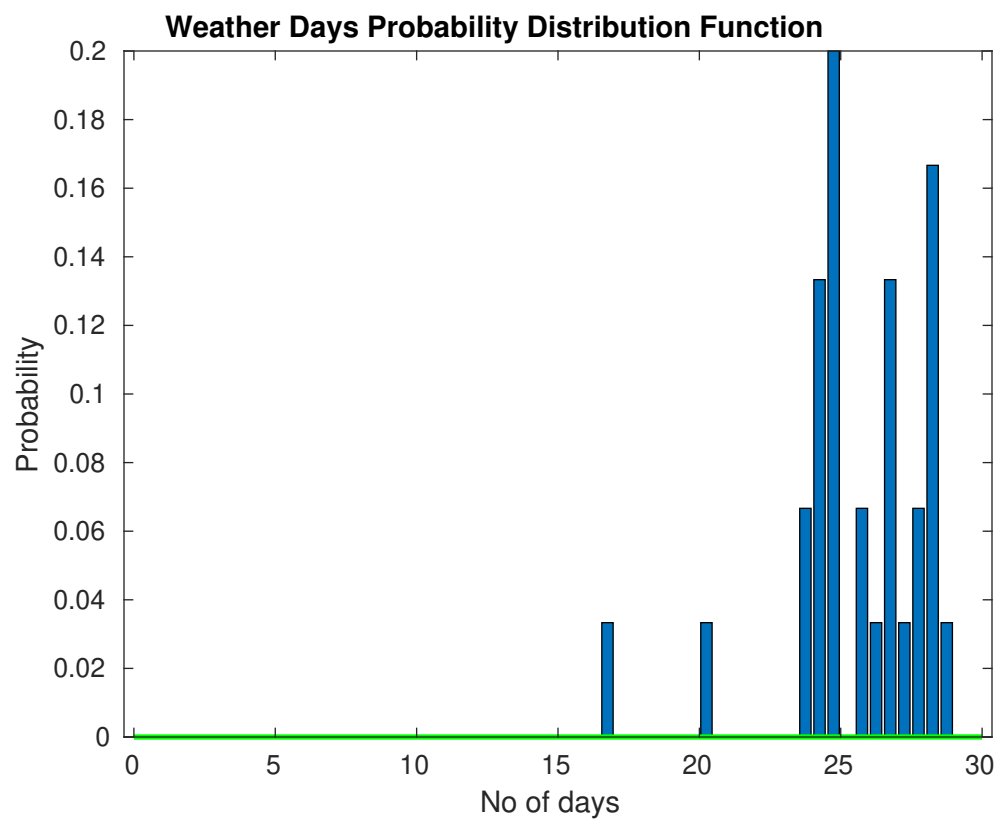
Mean Speed: 0.50-0.75 kts
The currents will occasionally reach 1.25-1.50 kts, but rarely greater.
Principle Direction, to: WNW

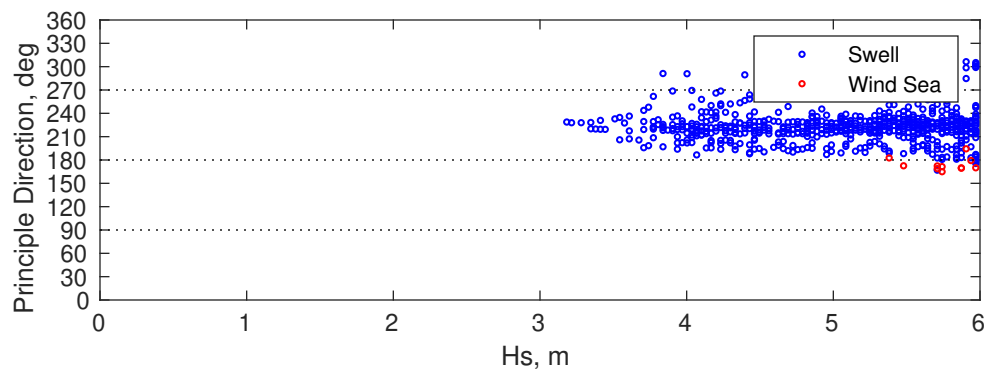
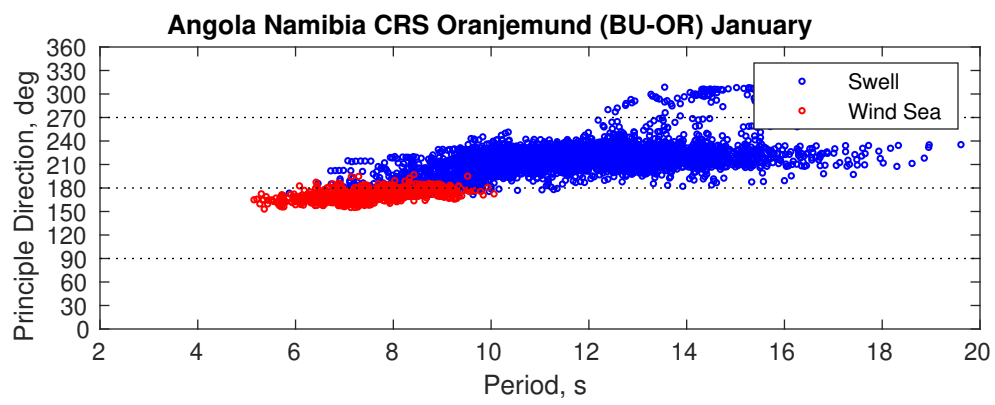
Weather Days

Current Speed > 0.5 knots Mean: 19.3 days Range: 13.9 - 24.7 days p50:18 days p75:16 days p90:15 days
Current Speed > 1.0 knots Mean: 1.8 days Range: 0.0 - 4.5 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

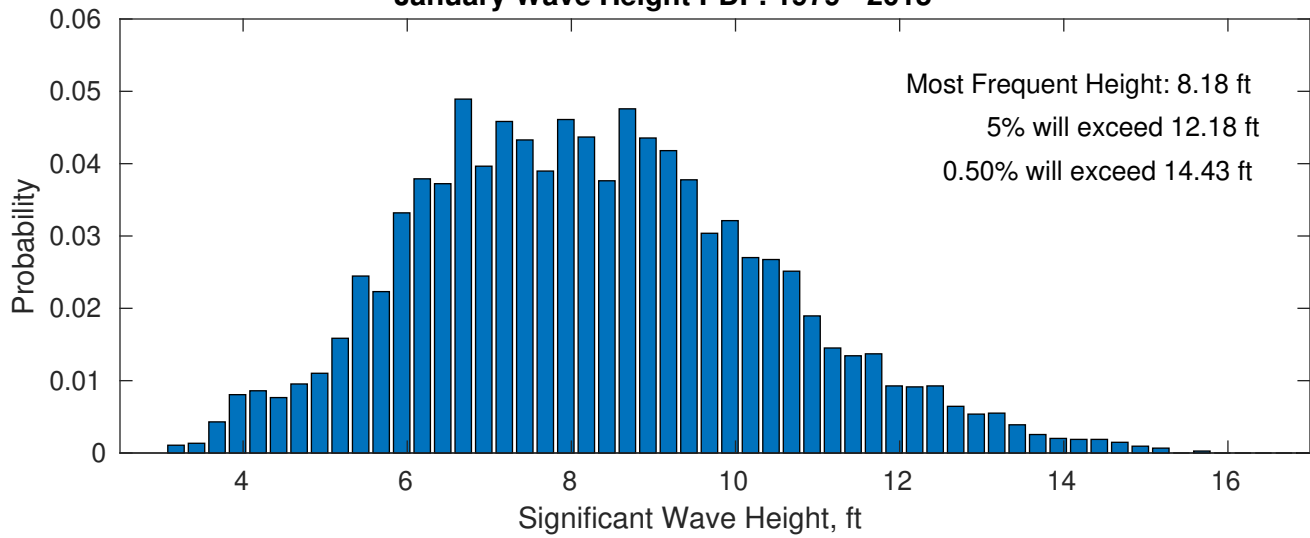
Severe Storms

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

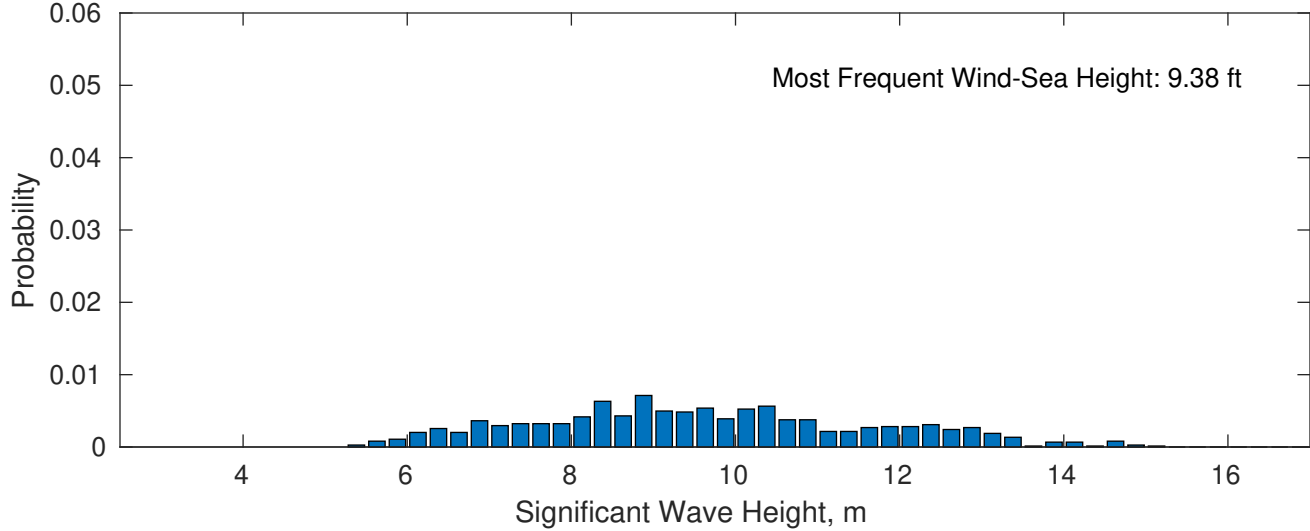




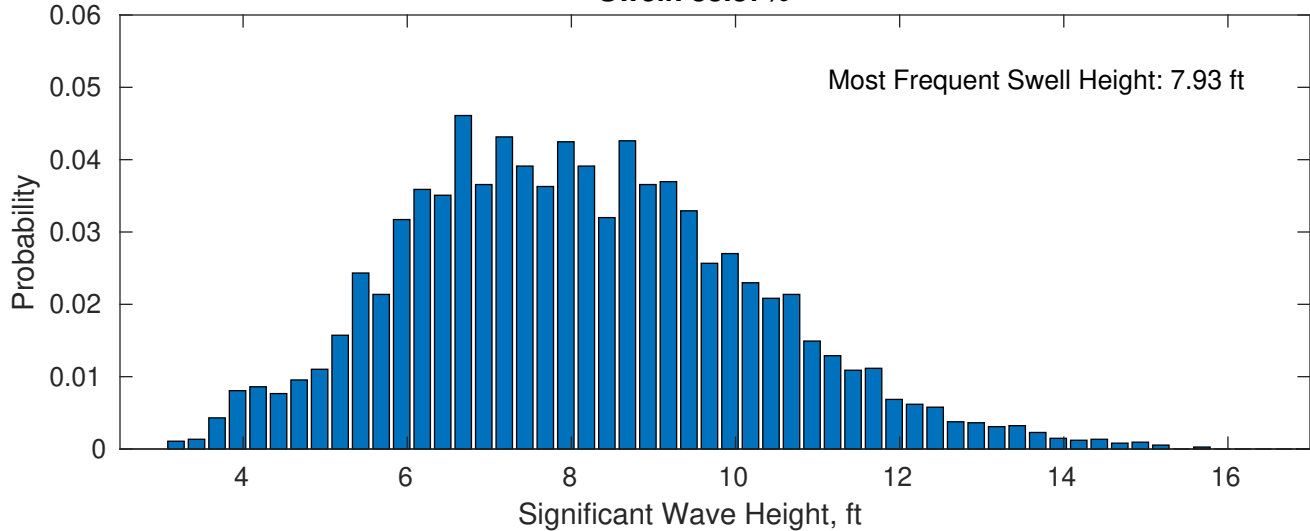
January Wave Height PDF: 1979 - 2015



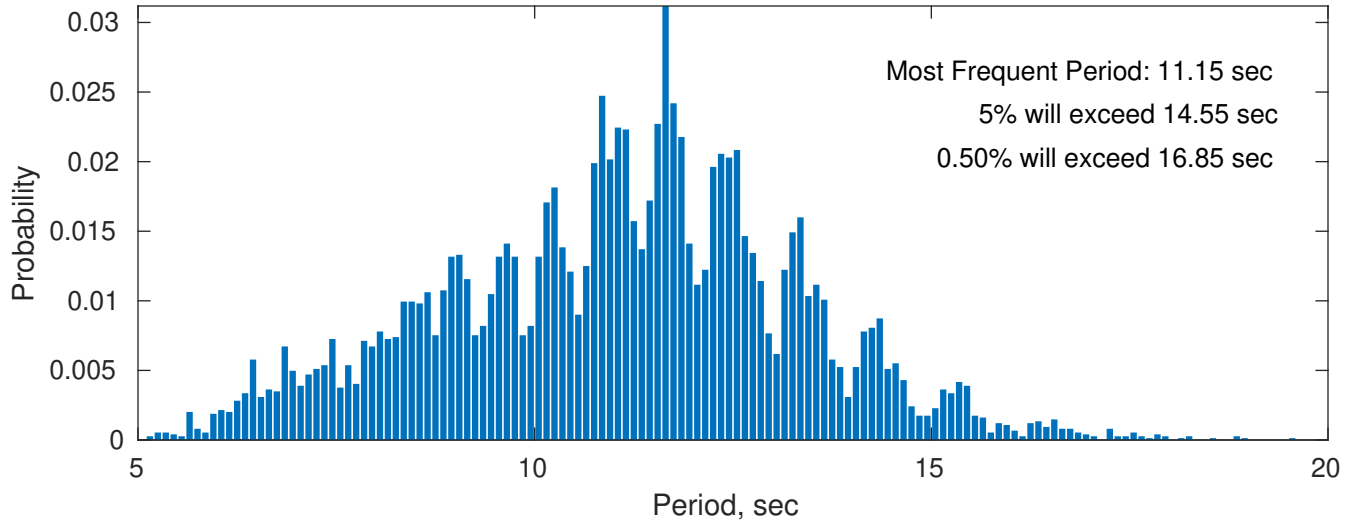
Wind-Sea: 11.13%



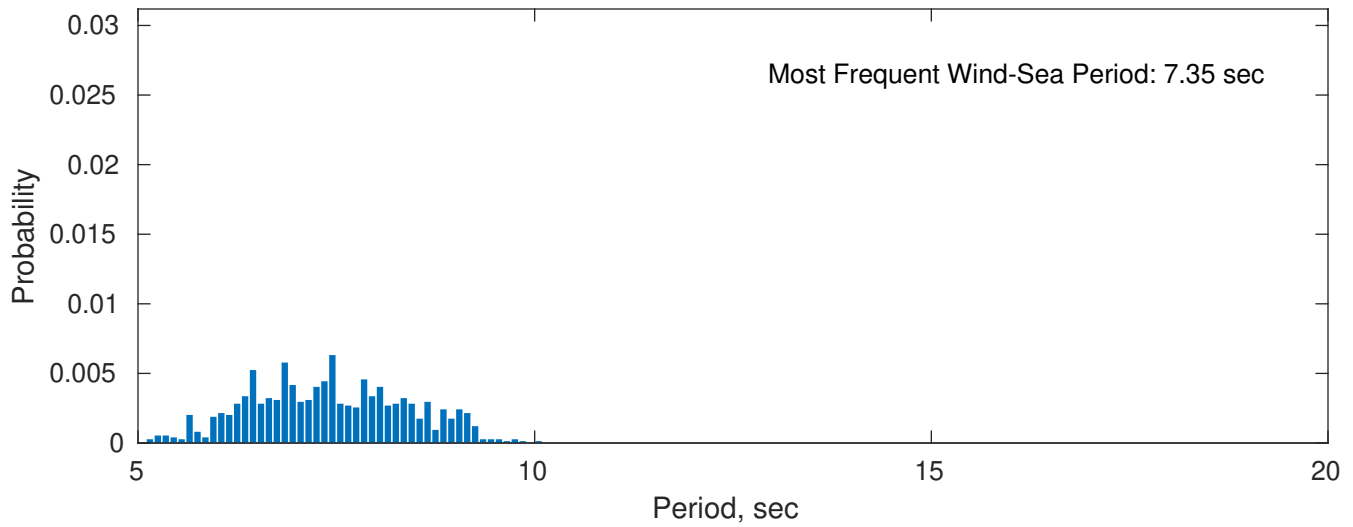
Swell: 88.87%



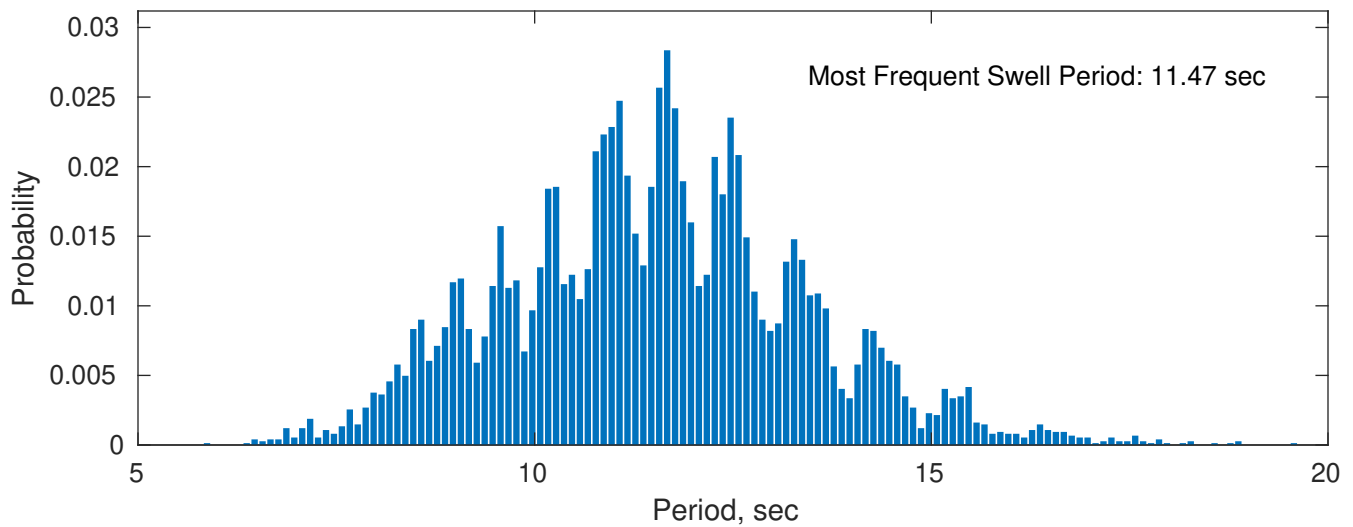
January Peak Wave Period PDF: 1979 - 2015



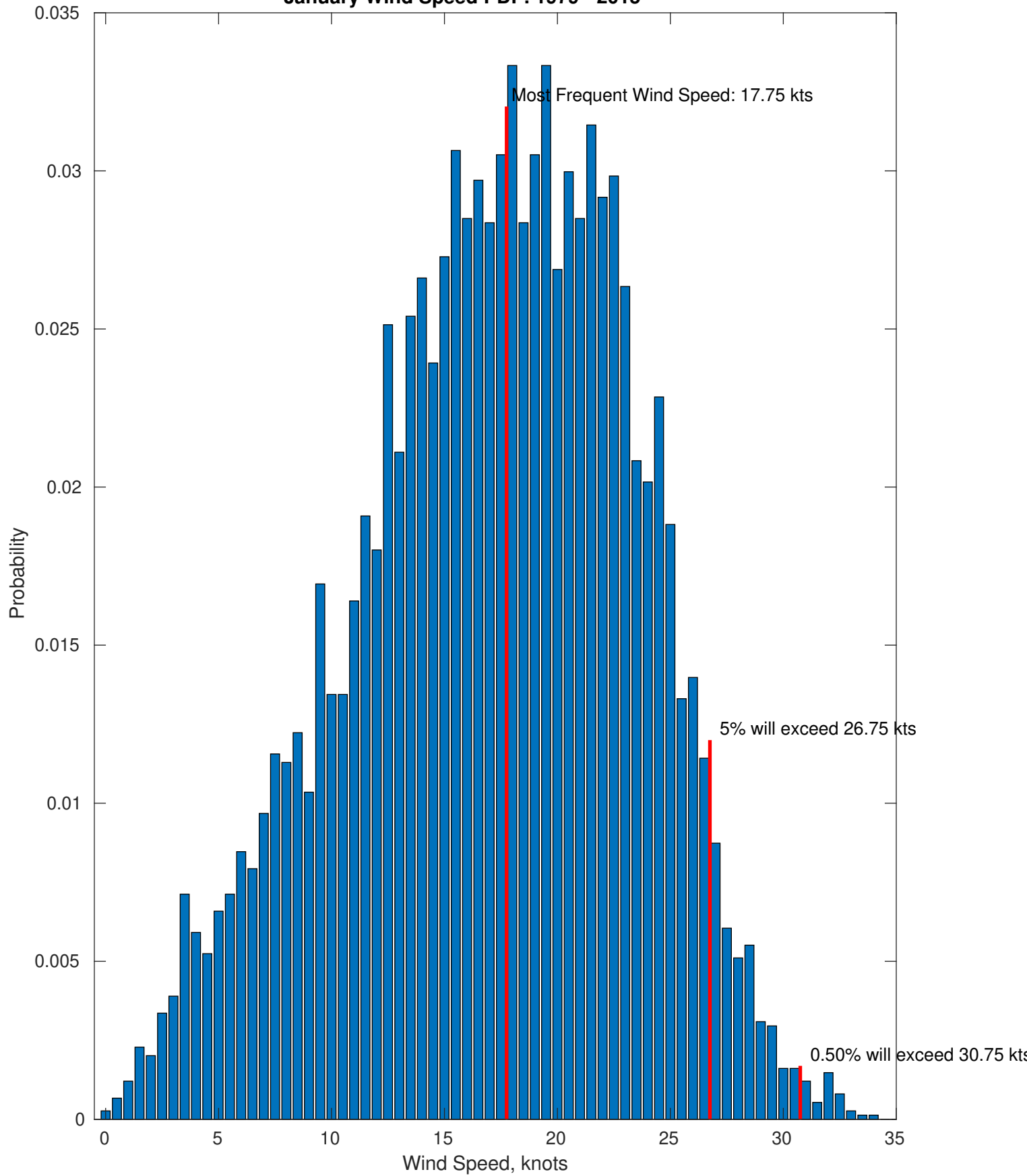
Wind-Sea: 11.13%



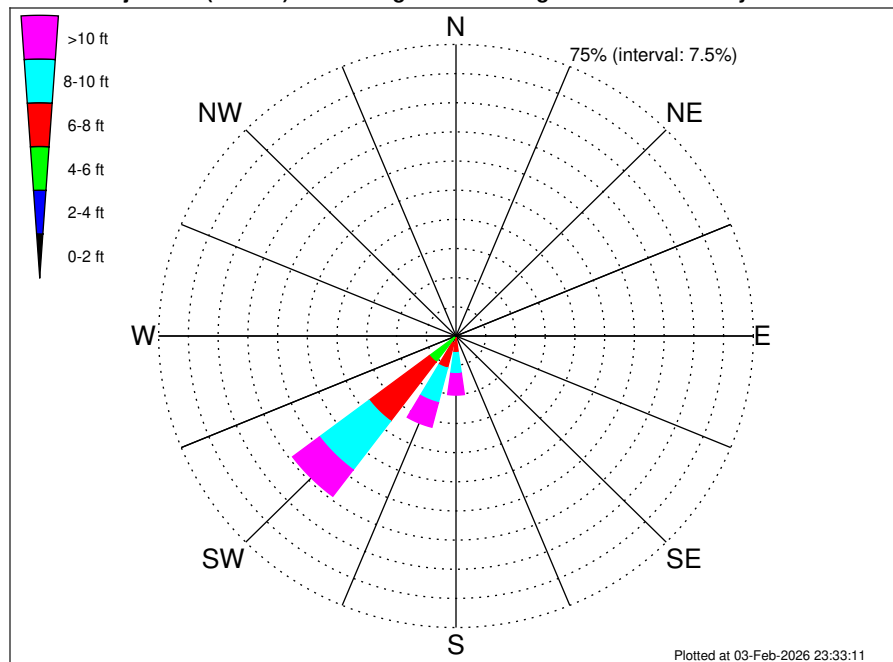
Swell: 88.87%



January Wind Speed PDF: 1979 - 2015



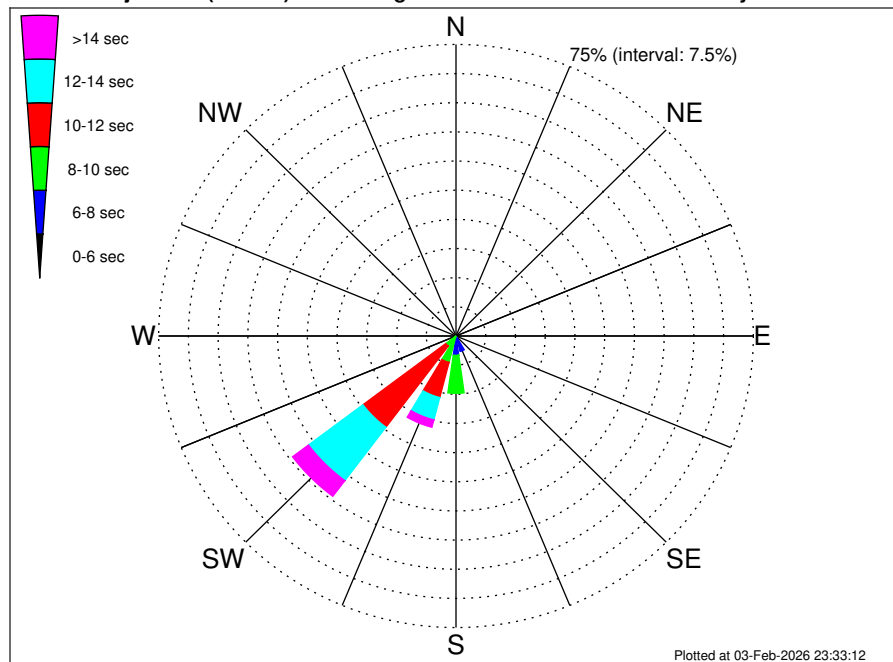
Angola Namibia CRS Oranjemund (BU-OR) Climatological WaveHeight Rose for January: 1979 - 2015



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	•	•	•	•	•	•	•	•	•	0.15	0.58	0.05	0.03	0.01	•	•	0.82
4 - 6 ft	•	•	•	•	•	•	•	0.03	0.54	1.63	7.81	0.93	0.19	0.23	0.05	•	11.40
6 - 8 ft	•	•	•	•	•	•	•	1.12	3.75	6.76	19.06	1.01	0.09	0.46	0.59	•	32.84
8 - 10 ft	•	•	•	•	•	•	•	1.72	5.42	9.19	15.67	0.48	0.04	0.01	0.08	•	32.62
10 - 12 ft	•	•	•	•	•	•	•	1.17	3.55	4.85	6.83	0.16	•	•	•	•	16.56
12 - 14 ft	•	•	•	•	•	•	•	0.35	1.73	1.30	1.52	0.04	•	•	•	•	4.95
14 - 16 ft	•	•	•	•	•	•	•	0.08	0.22	0.36	0.16	•	•	•	•	•	0.82
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	•	•	•	•	•	•	•	4.46	15.20	24.25	51.63	2.67	0.35	0.71	0.73	•	100.00

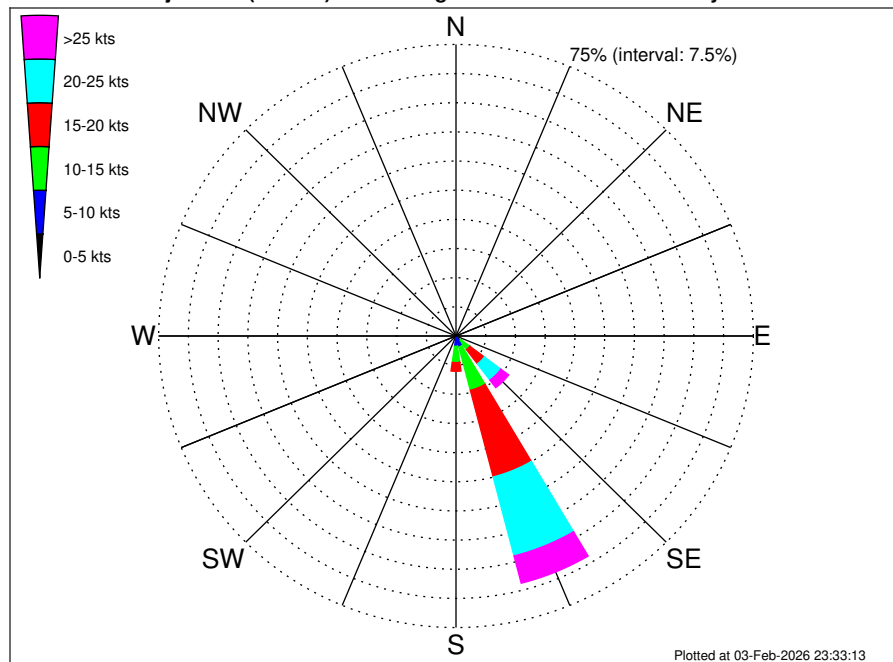
Angola Namibia CRS Oranjemund (BU-OR) Climatological WavePeriod Rose for January: 1979 - 2015



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	•	•	•	•	•	•	•	0.54	0.13	•	•	•	•	•	•	•	0.67
6 - 8 sec	•	•	•	•	•	•	•	3.56	4.84	0.36	0.12	•	•	•	•	•	8.88
8 - 10 sec	•	•	•	•	•	•	•	0.36	9.78	6.65	3.12	0.08	•	•	•	•	20.00
10 - 12 sec	•	•	•	•	•	•	•	•	0.28	9.34	26.16	0.67	•	•	•	•	36.45
12 - 14 sec	•	•	•	•	•	•	•	•	0.07	5.94	17.20	1.47	0.20	0.24	0.01	•	25.13
14 - 16 sec	•	•	•	•	•	•	•	•	0.09	1.63	4.37	0.44	0.11	0.36	0.52	•	7.53
18 - 20 sec	•	•	•	•	•	•	•	•	•	0.28	0.58	0.01	0.04	0.11	0.19	•	1.21
22 - 24 sec	•	•	•	•	•	•	•	•	•	0.04	0.08	•	•	•	•	•	0.12
Total	•	•	•	•	•	•	•	4.46	15.20	24.25	51.63	2.67	0.35	0.71	0.73	•	100.00

Angola Namibia CRS Oranjemund (BU-OR) Climatological Wind Rose for January: 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	•	•	0.01	0.01	•	•	•	0.01	•	0.01	0.09
0 - 5 kts	0.04	0.03	0.05	0.08	0.11	0.23	0.19	0.44	0.42	0.27	0.34	0.24	0.23	0.20	0.12	0.12	3.10
5 - 10 kts	0.05	0.01	•	•	0.04	0.16	1.29	2.45	2.23	1.34	0.67	0.47	0.39	0.40	0.52	0.17	10.22
10 - 15 kts	0.01	•	•	•	•	0.07	2.90	11.53	4.18	0.66	0.11	0.07	0.01	0.17	0.35	0.19	20.26
15 - 20 kts	0.01	•	•	•	•	0.04	4.58	23.02	2.24	0.03	•	•	•	0.03	0.04	0.05	30.05
20 - 25 kts	•	•	•	•	0.01	•	5.24	20.99	0.35	•	•	•	•	•	•	•	26.60
25 - 30 kts	•	•	•	•	•	•	2.18	6.72	•	•	•	•	•	•	•	•	8.90
30 - 35 kts	•	•	•	•	•	•	0.26	0.52	•	•	•	•	•	•	•	•	0.78
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.12	0.04	0.05	0.08	0.16	0.54	16.64	65.69	9.44	2.31	1.12	0.78	0.63	0.82	1.03	0.55	100.00