

Angola Namibia CRS Luanda (BU-LU) - November

Latitude: 8.85 S Longitude: 12.41 E

Weather Days

Wave Height > 5.0 ft Mean: 2.7 days Range: 0.5 - 4.9 days p50:3 days p75:1 days p90:0.5 days
Wave Height > 6.5 ft Mean: 0.2 days Range: 0.0 - 0.9 days p50:30 days p75:30 days p90:1.5 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: 0.3 days Range: 0.0 - 0.6 days p50:0.5 days p75:0.5 days p90:0.5 days
Wind Speed > 20.0 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:0.5 days p75:0.5 days p90:0.5 days
Wind Speed > 25.0 knots Mean: 0.0 days Range: 0.0 - 0.0 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 3.4 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
Wave Height < 6.5 ft	A 1 day or longer window will statistically occur 2.2 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 1.8 times per month
Wave Height < 8.0 ft	A 1 day or longer window will statistically occur 1.1 times per month A 2 day or longer window will statistically occur 1.1 times per month A 3 day or longer window will statistically occur 1.1 times per month

Waves

Mean Height: 4 - 6 ft
The wave heights will occasionally reach 8 - 10 ft, but rarely higher.
Mean Period: 12 - 14 sec
The wave periods will occasionally reach 22 - 24 sec, but rarely longer.
Principle Direction, from: SSW
WindSea/Swell: 0% / 100%

Winds

Mean Speed: 5 - 10 kts
The winds will occasionally reach 15 - 20 kts, but rarely greater.
Principle Direction, from: SSW

Currents

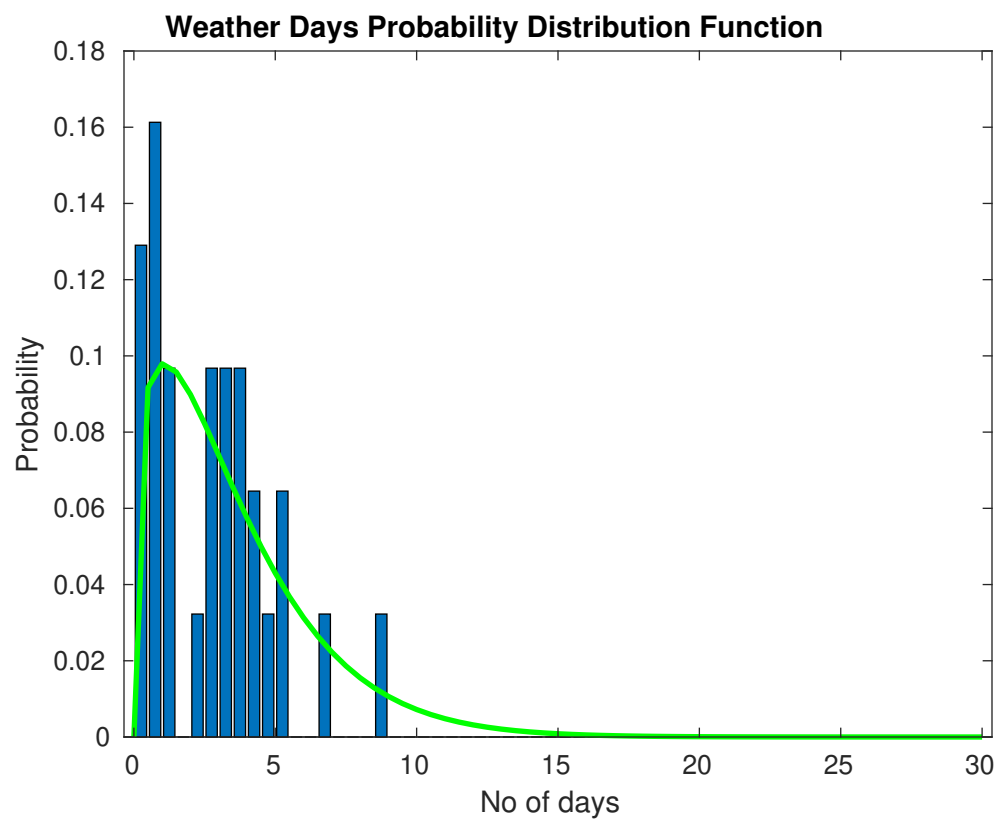
Mean Speed: 0.25-0.50 kts
The currents will occasionally reach 1.00-1.25 kts, but rarely greater.
Principle Direction, to: N

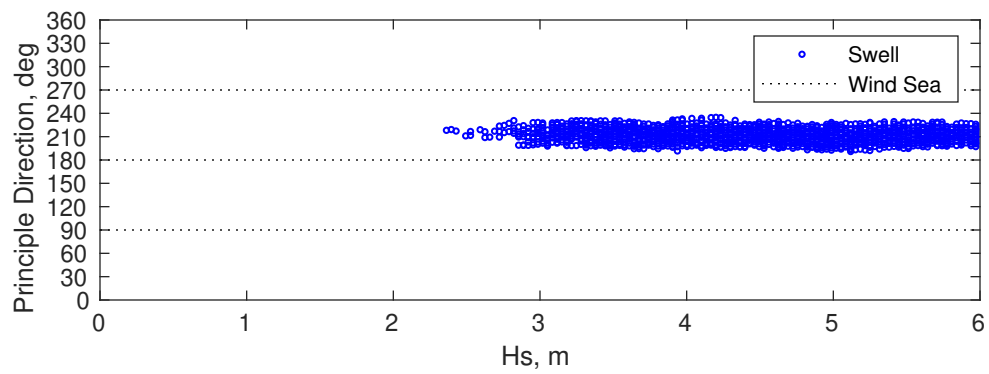
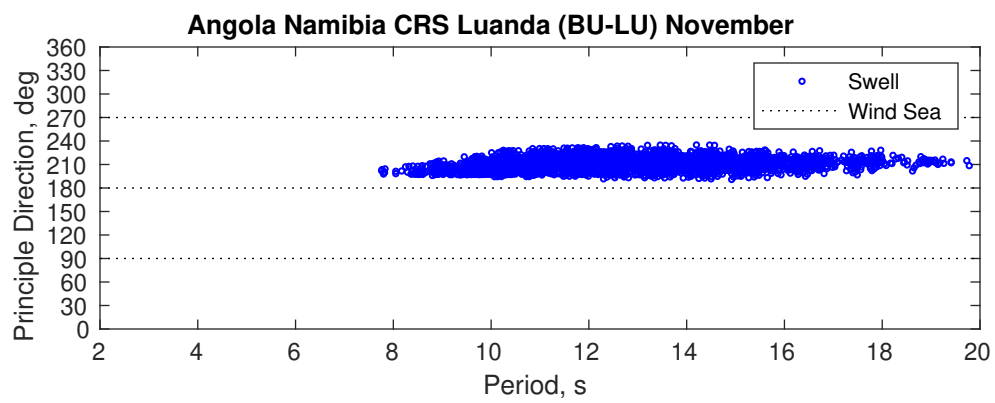
Weather Days

Current Speed > 0.5 knots Mean: 9.7 days Range: 5.0 - 14.4 days p50:11 days p75:7 days p90:5 days
Current Speed > 1.0 knots Mean: 0.4 days Range: 0.0 - 1.4 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

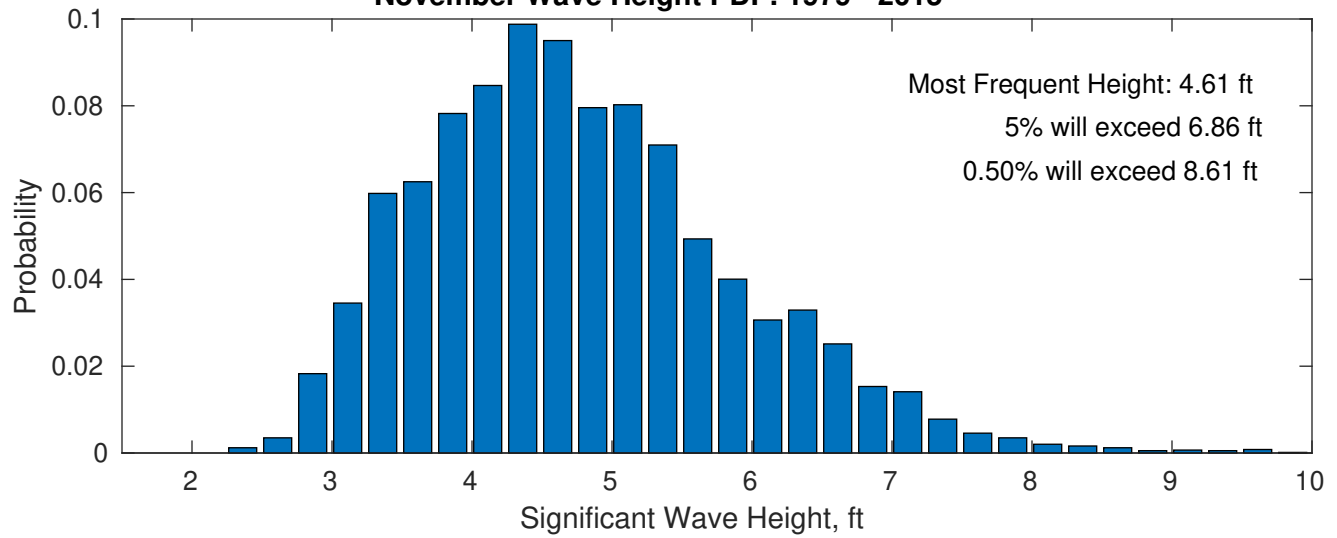
Severe Storms

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

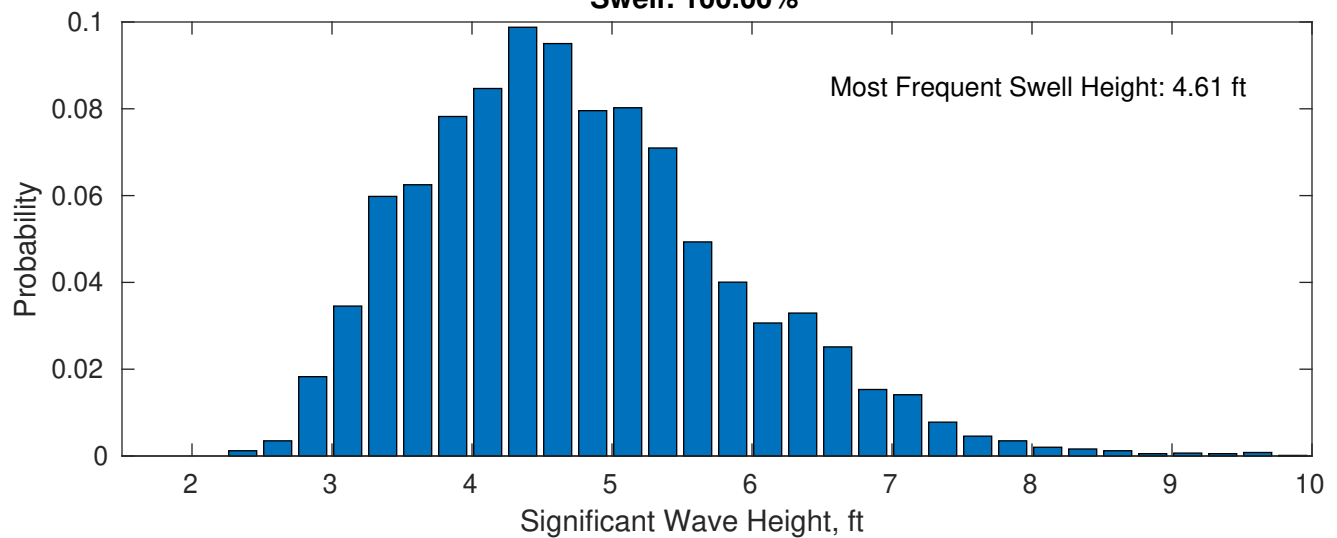




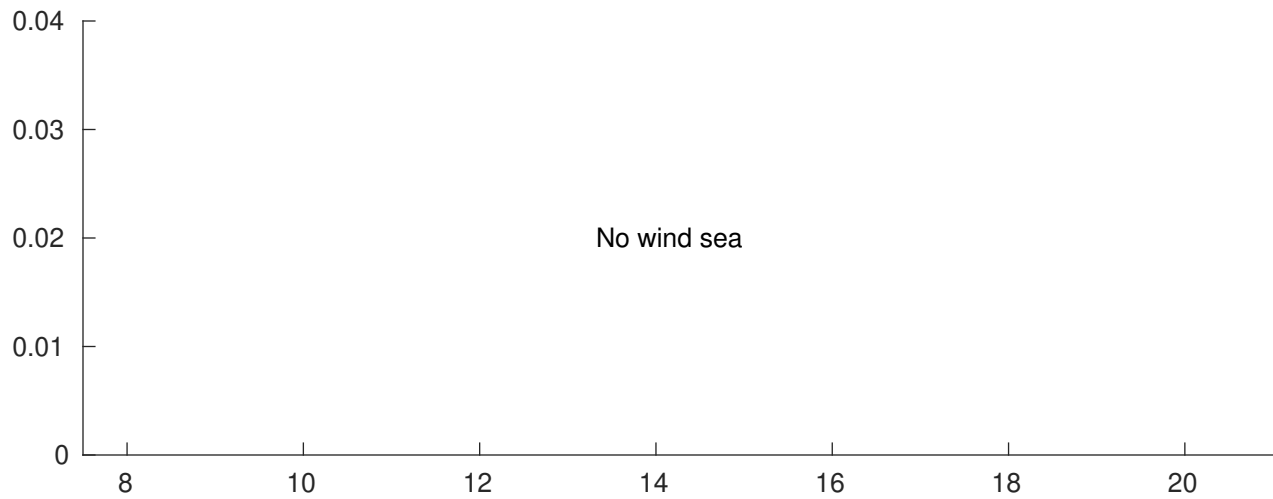
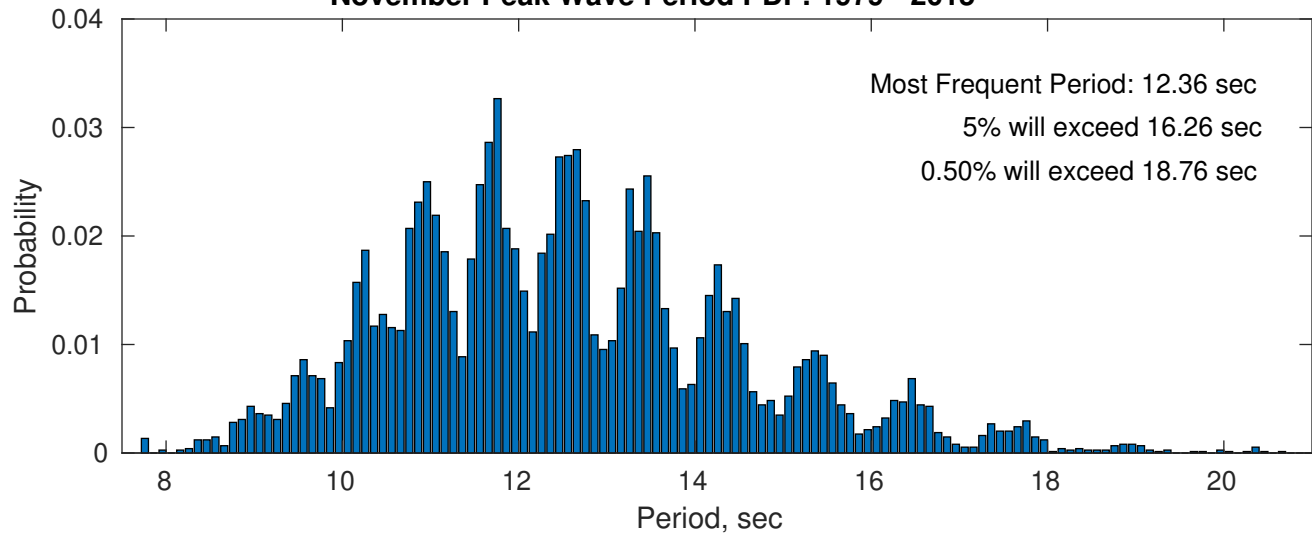
November Wave Height PDF: 1979 - 2015



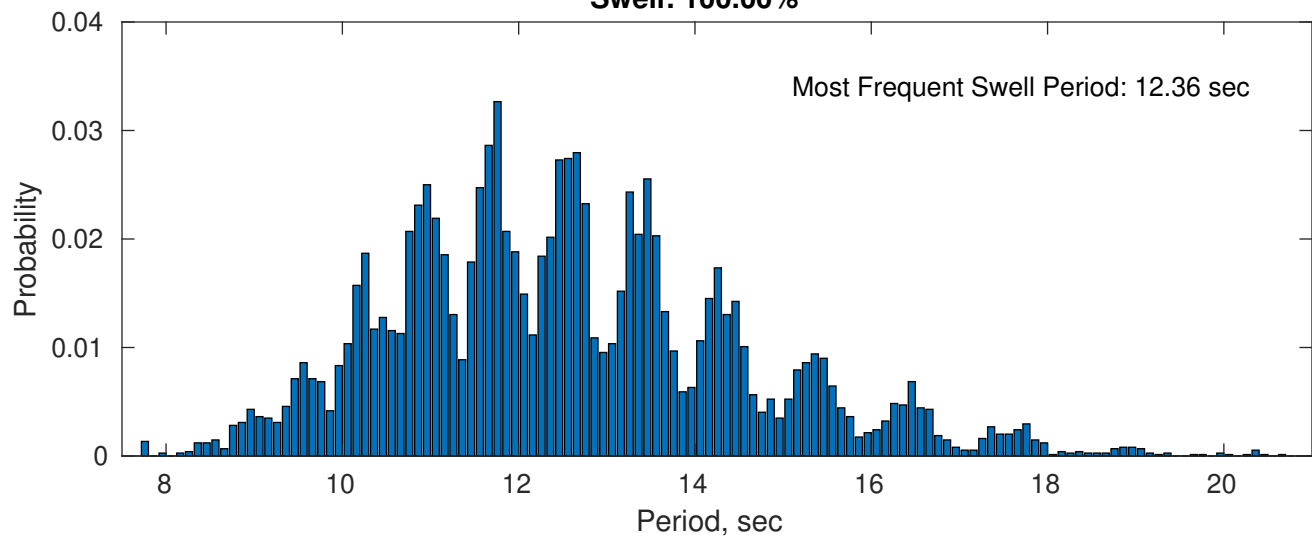
Swell: 100.00%



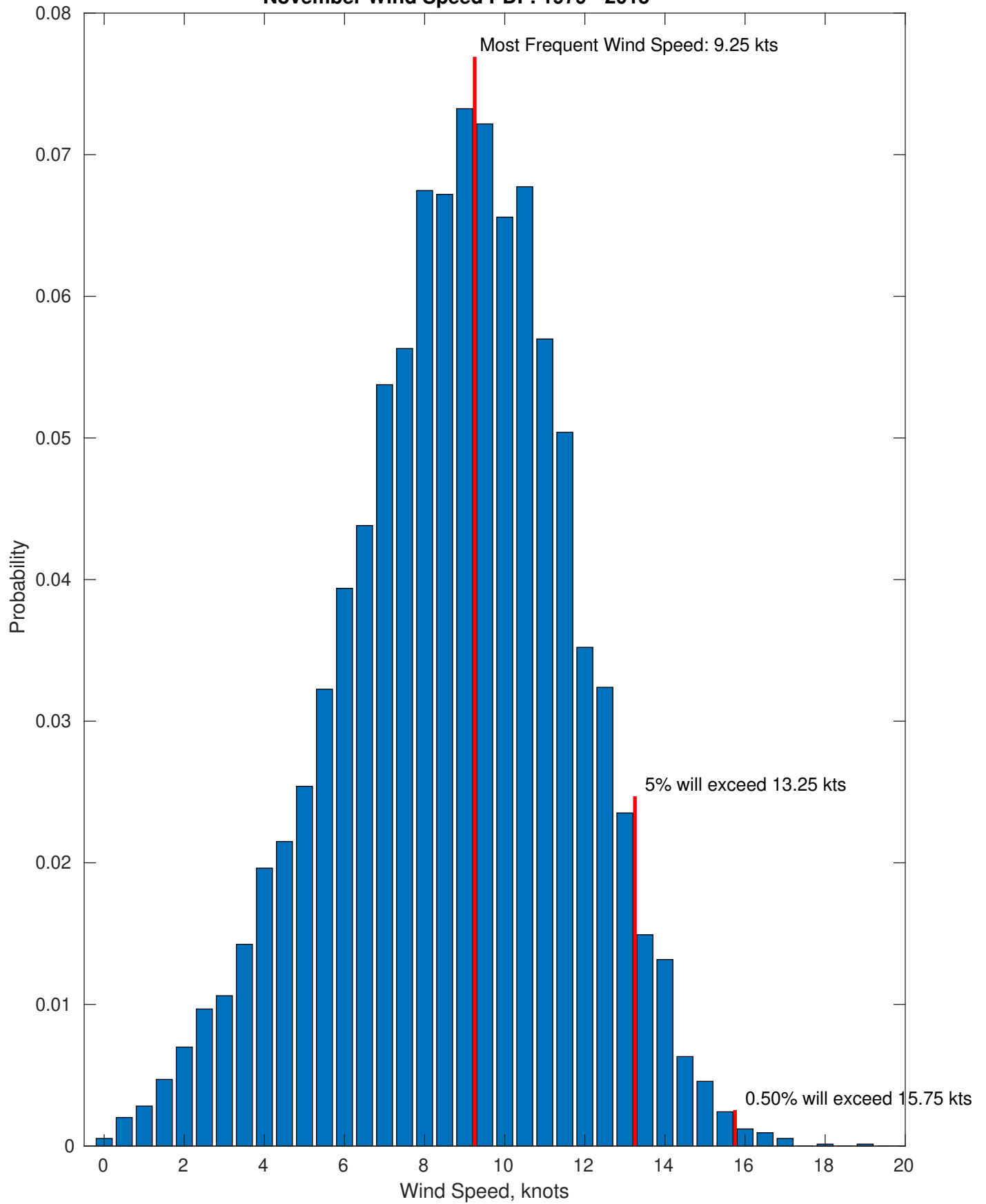
November Peak Wave Period PDF: 1979 - 2015



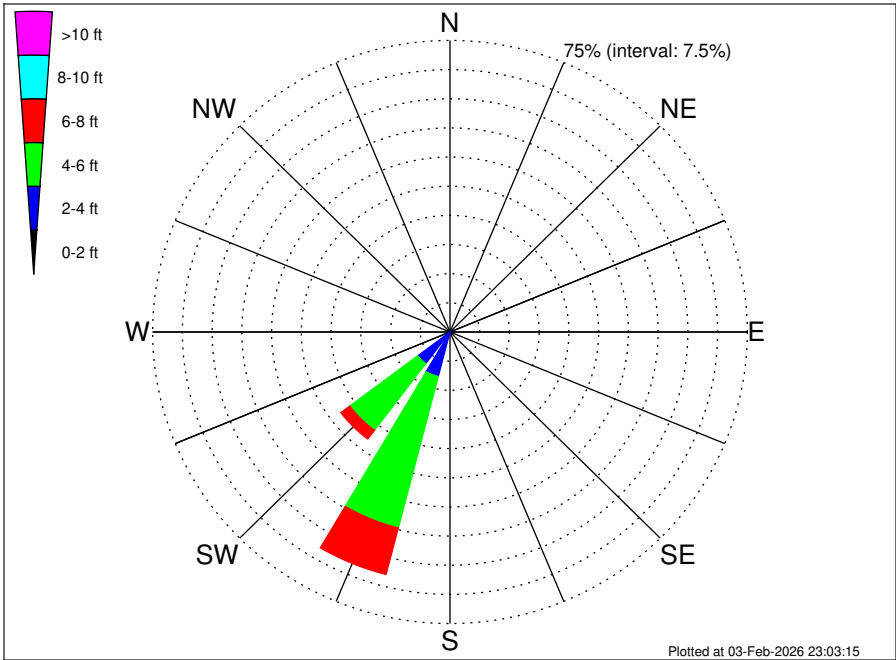
Swell: 100.00%



November Wind Speed PDF: 1979 - 2015



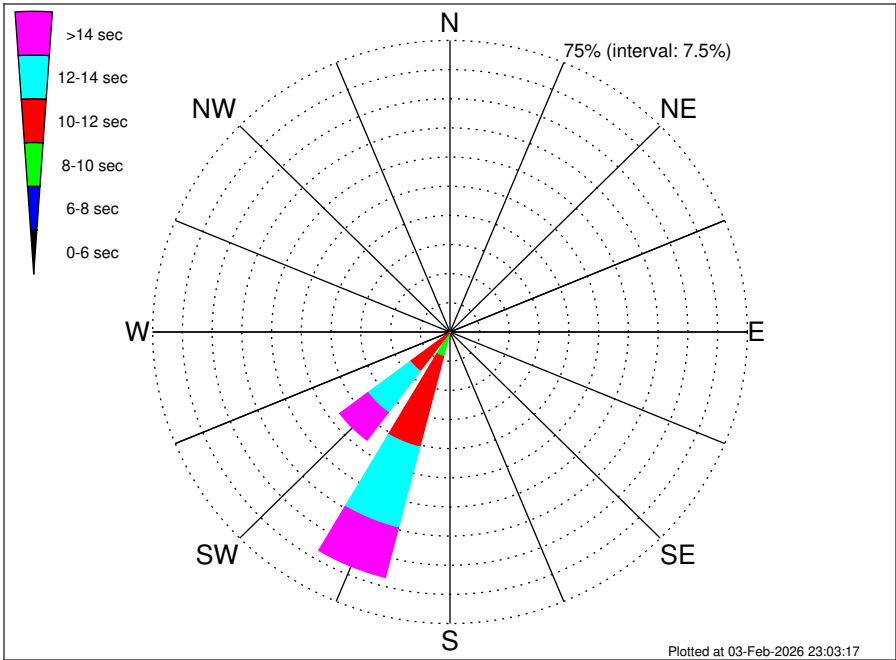
Angola Namibia CRS Luanda (BU-LU) Climatological WaveHeight Rose for November: 1979 - 2015



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	.	.	.	.	.	.	.	.	.	11.84	10.17	.	.	.	.	.	22.02
4 - 6 ft	.	.	.	.	.	.	.	.	0.01	40.23	21.49	.	.	.	.	.	61.73
6 - 8 ft	.	.	.	.	.	.	.	.	.	12.35	2.80	.	.	.	.	.	15.15
8 - 10 ft	.	.	.	.	.	.	.	.	.	0.67	0.26	.	.	.	.	.	0.93
10 - 12 ft	.	.	.	.	.	.	.	.	.	0.11	0.07	.	.	.	.	.	0.17
12 - 14 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14 - 16 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16 - 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
> 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	.	.	.	.	.	.	.	.	0.01	65.20	34.78	.	.	.	.	.	100.00

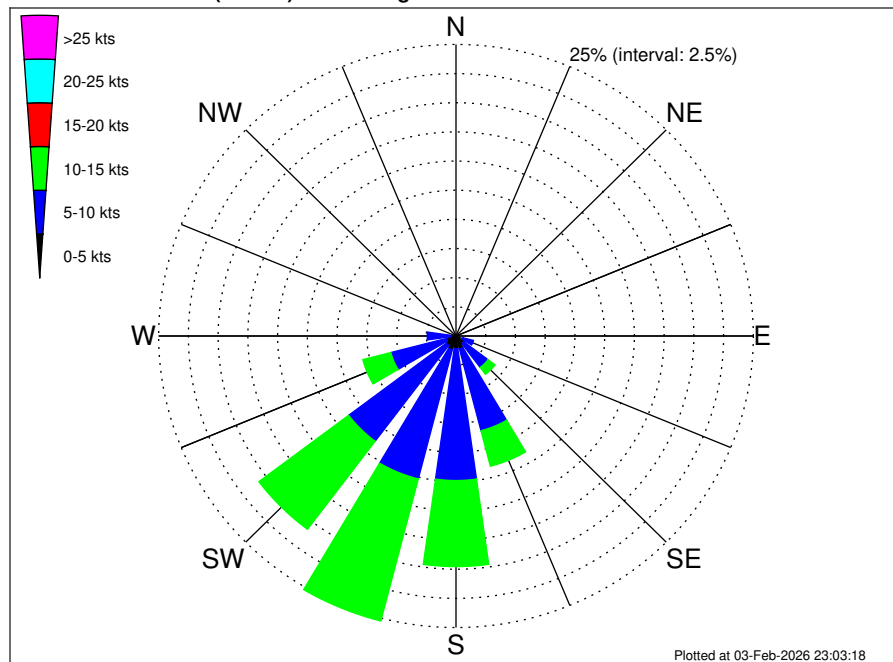
Angola Namibia CRS Luanda (BU-LU) Climatological WavePeriod Rose for November: 1979 - 2015



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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6 - 8 sec	•	•	•	•	•	•	•	•	•	0.13	•	•	•	•	•	•	0.13
8 - 10 sec	•	•	•	•	•	•	•	•	•	6.41	0.39	•	•	•	•	•	6.80
10 - 12 sec	•	•	•	•	•	•	•	•	•	24.05	12.19	•	•	•	•	•	36.24
12 - 14 sec	•	•	•	•	•	•	•	•	•	21.52	13.39	•	•	•	•	•	34.91
14 - 16 sec	•	•	•	•	•	•	•	•	0.01	9.61	6.22	•	•	•	•	•	15.85
18 - 20 sec	•	•	•	•	•	•	•	•	•	2.97	2.31	•	•	•	•	•	5.28
22 - 24 sec	•	•	•	•	•	•	•	•	•	0.51	0.28	•	•	•	•	•	0.79
Total	•	•	•	•	•	•	•	•	0.01	65.20	34.78	•	•	•	•	•	100.00

Angola Namibia CRS Luanda (BU-LU) 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	•	0.03	0.01	0.01	0.03	0.03	•	0.05	•	•	•	0.03	0.03	•	0.01	0.03	0.26
0 - 5 kts	0.20	0.26	0.19	0.27	0.35	0.59	0.81	1.09	1.09	1.22	1.02	0.82	0.48	0.34	0.20	0.09	9.02
5 - 10 kts	0.11	0.19	0.24	0.32	0.62	0.90	2.57	7.24	11.30	11.44	10.28	4.81	1.91	0.60	0.38	0.19	53.10
10 - 15 kts	0.01	•	0.03	0.07	0.12	0.13	0.74	3.15	7.38	12.58	9.45	2.43	0.32	0.13	0.05	0.03	36.63
15 - 20 kts	•	•	•	•	0.01	•	0.01	0.12	0.12	0.47	0.19	0.05	0.01	•	•	•	0.99
20 - 25 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.32	0.47	0.47	0.67	1.13	1.65	4.13	11.65	19.89	25.71	20.94	8.15	2.76	1.08	0.65	0.34	100.00