

Angola Namibia CRS Luanda (BU-LU) - December

Latitude: 8.85 S Longitude: 12.41 E

Weather Days

Wave Height > 5.0 ft Mean: 0.5 days Range: 0.0 - 1.4 days p50:30 days p75:1 days p90:0.5 days
Wave Height > 6.5 ft Mean: 0.0 days Range: 0.0 - 0.0 days p50:30 days p75:30 days p90:30 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: 0.2 days Range: 0.0 - 0.4 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 2.9 times per month A 2 day or longer window will statistically occur 2.5 times per month A 3 day or longer window will statistically occur 2.2 times per month
Wave Height < 6.5 ft	A 1 day or longer window will statistically occur 1.4 times per month A 2 day or longer window will statistically occur 1.3 times per month A 3 day or longer window will statistically occur 1.2 times per month
Wave Height < 8.0 ft	A 1 day or longer window will statistically occur 0.9 times per month A 2 day or longer window will statistically occur 0.9 times per month A 3 day or longer window will statistically occur 0.9 times per month

Waves

Mean Height: 4 - 6 ft
The wave heights will occasionally reach 6 - 8 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

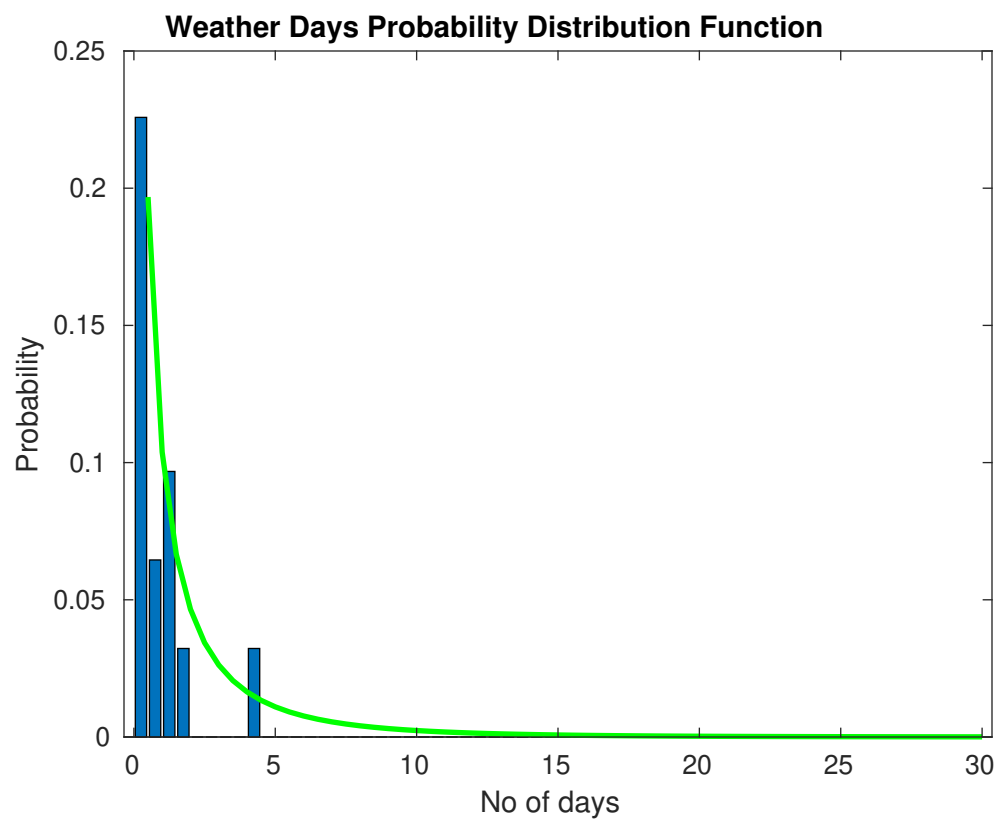
Mean Speed: 0.25-0.50 kts
The currents will occasionally reach 1.00-1.25 kts, but rarely greater.
Principle Direction, to: NNW

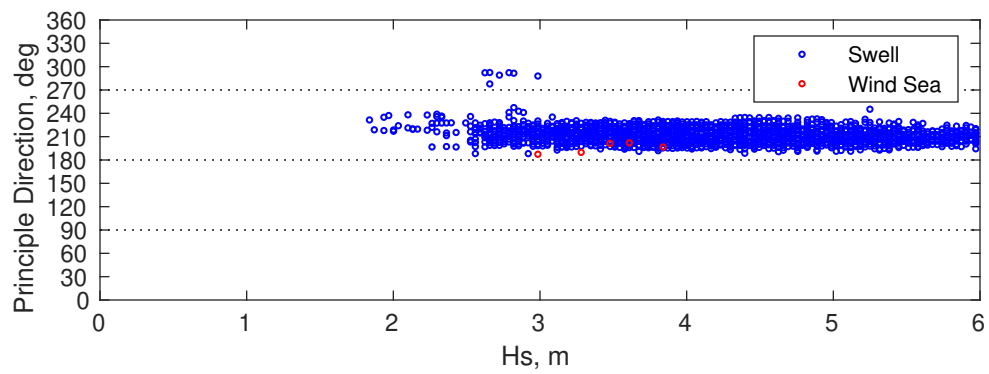
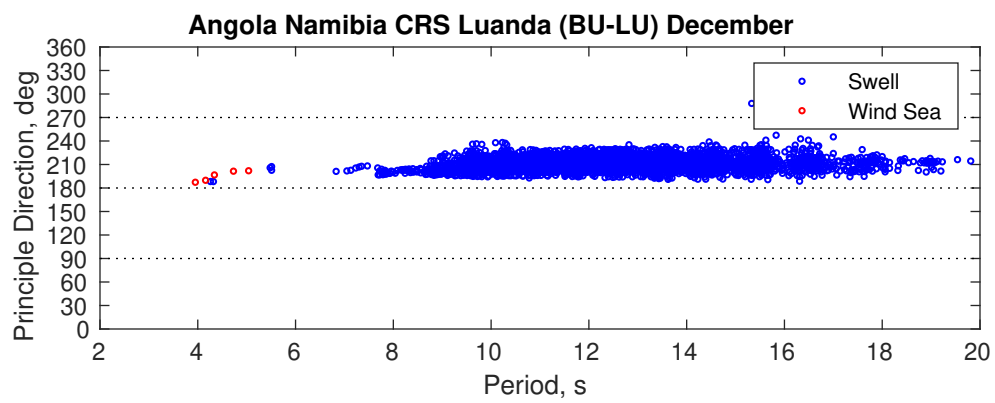
Weather Days

Current Speed > 0.5 knots Mean: 9.2 days Range: 4.4 - 14.0 days p50:10 days p75:6 days p90:4 days
Current Speed > 1.0 knots Mean: 0.5 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

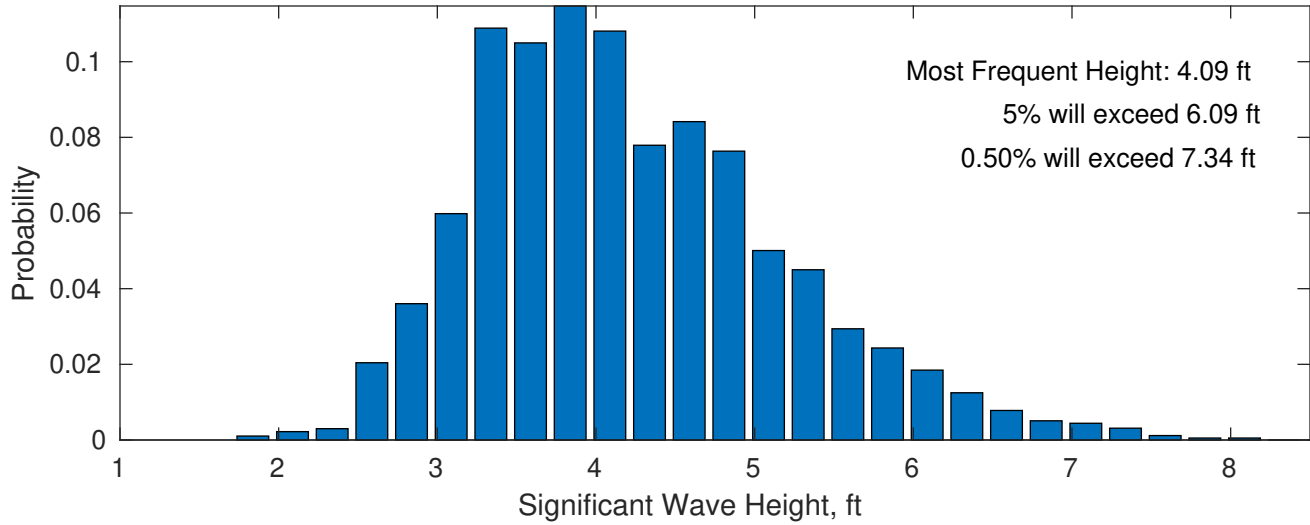
Severe Storms

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

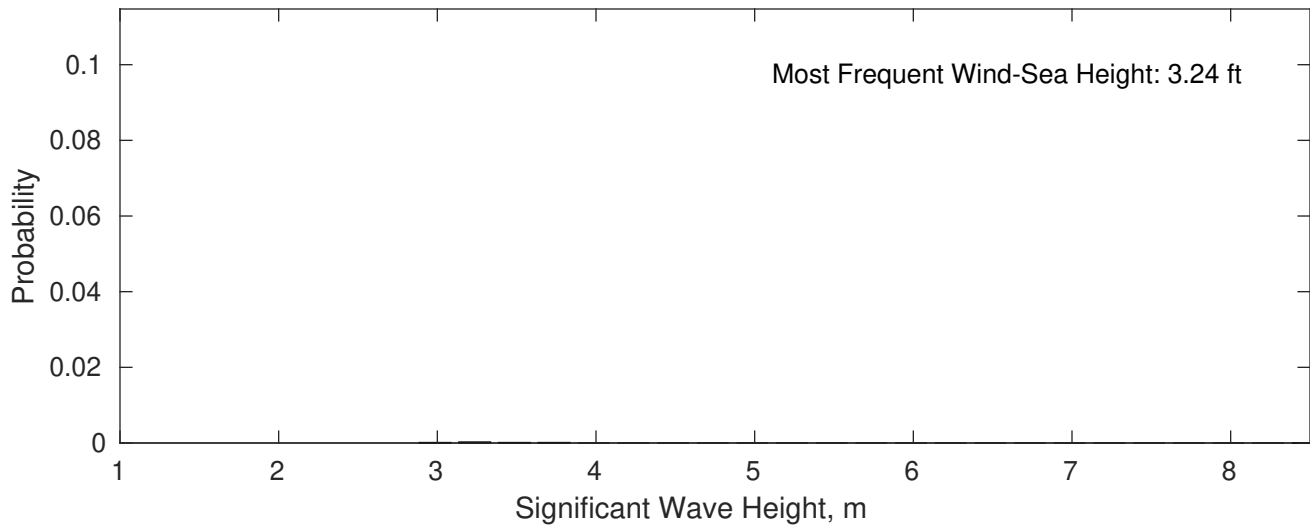




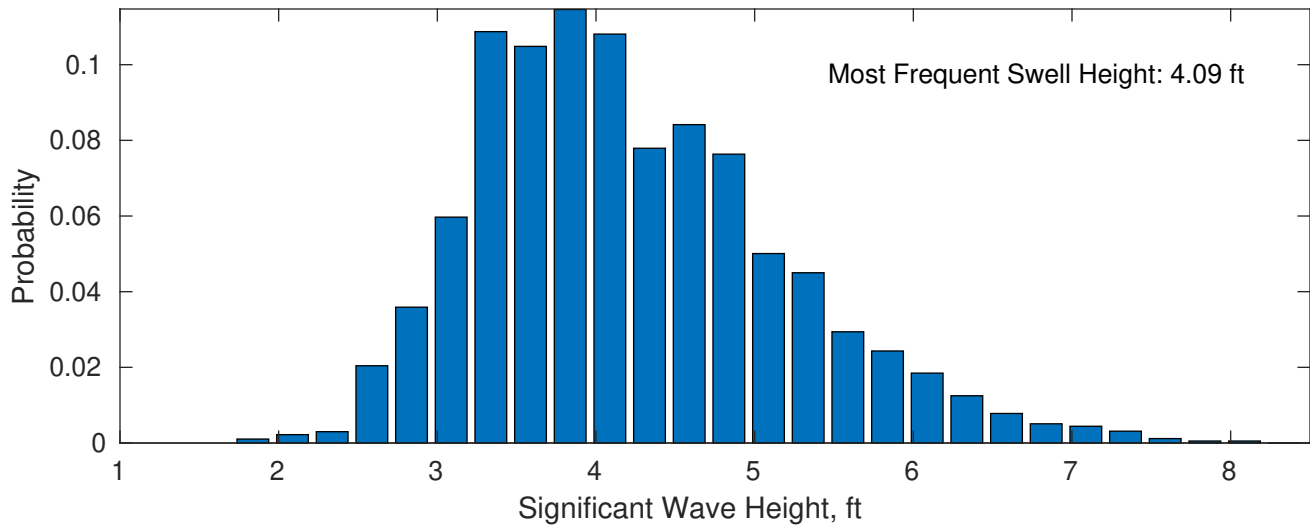
December Wave Height PDF: 1979 - 2015



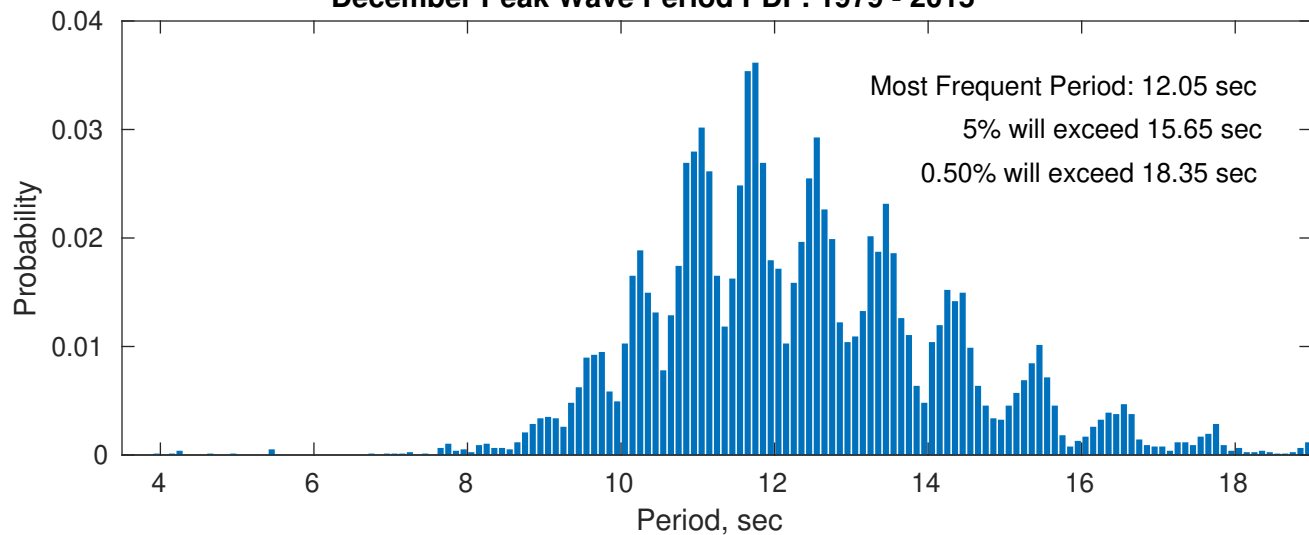
Wind-Sea: 0.07%



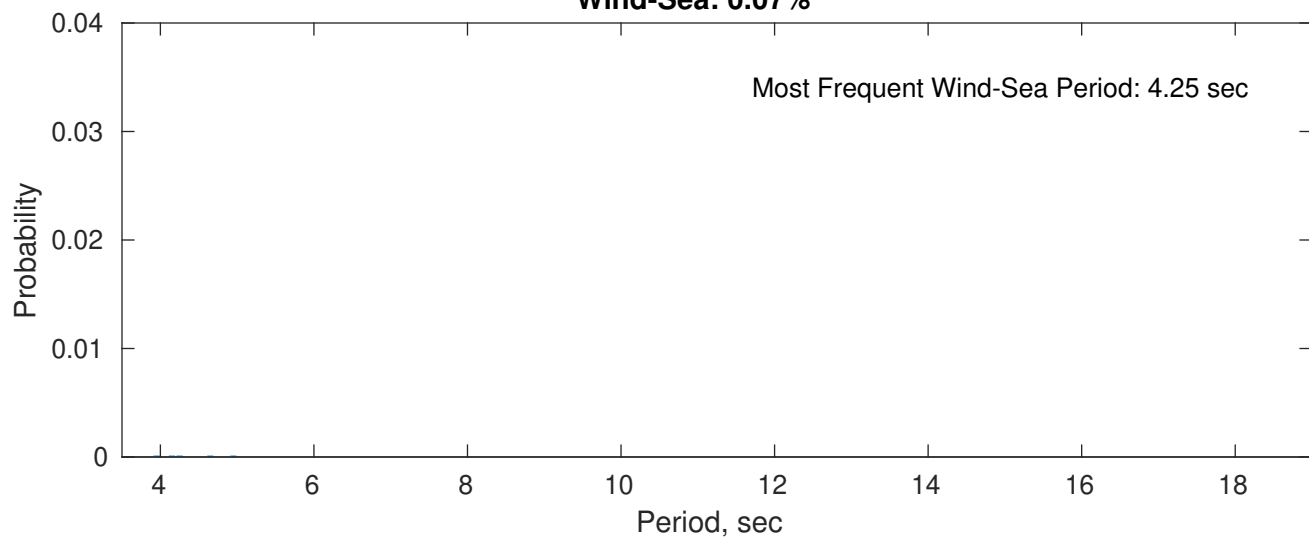
Swell: 99.93%



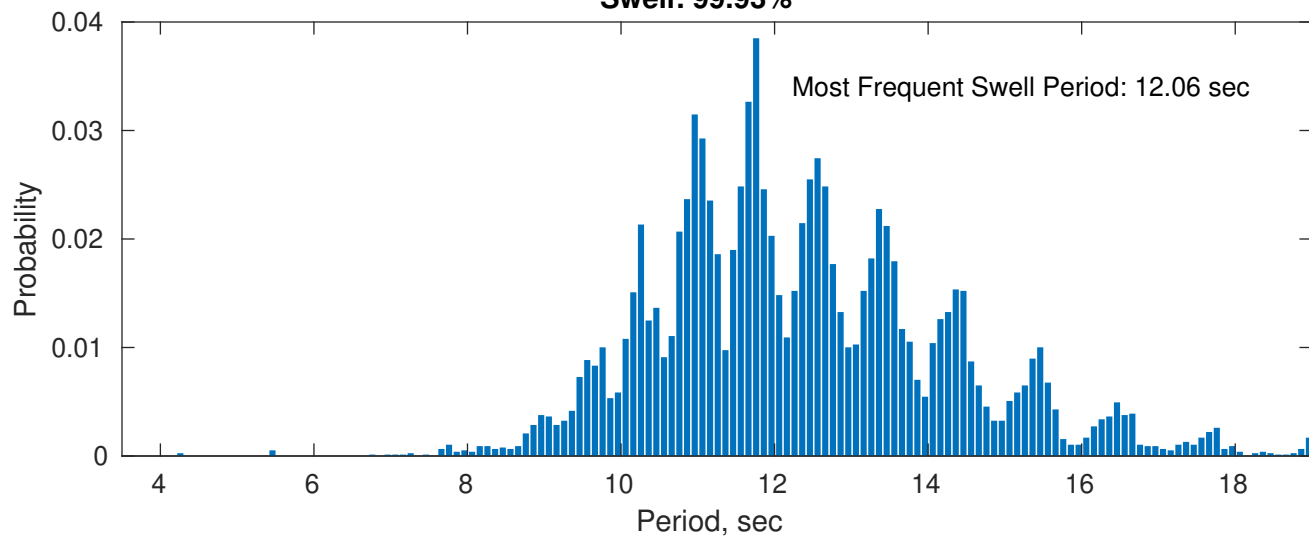
December Peak Wave Period PDF: 1979 - 2015



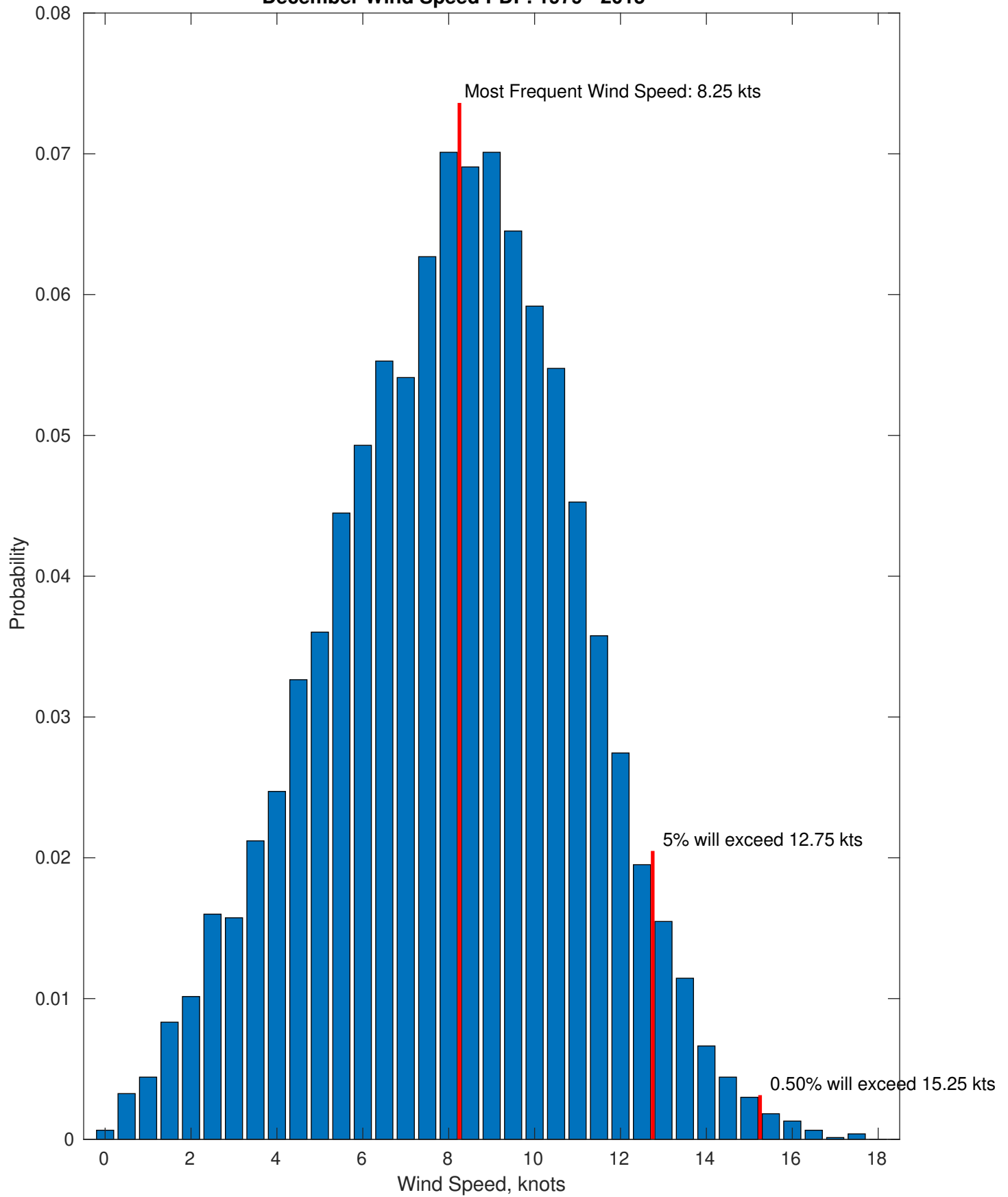
Wind-Sea: 0.07%



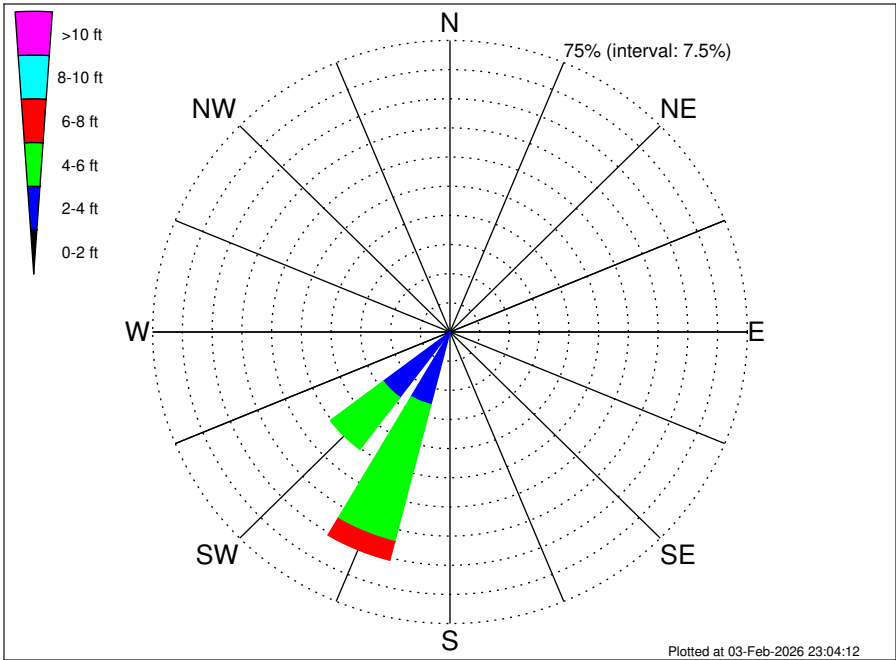
Swell: 99.93%



December Wind Speed PDF: 1979 - 2015



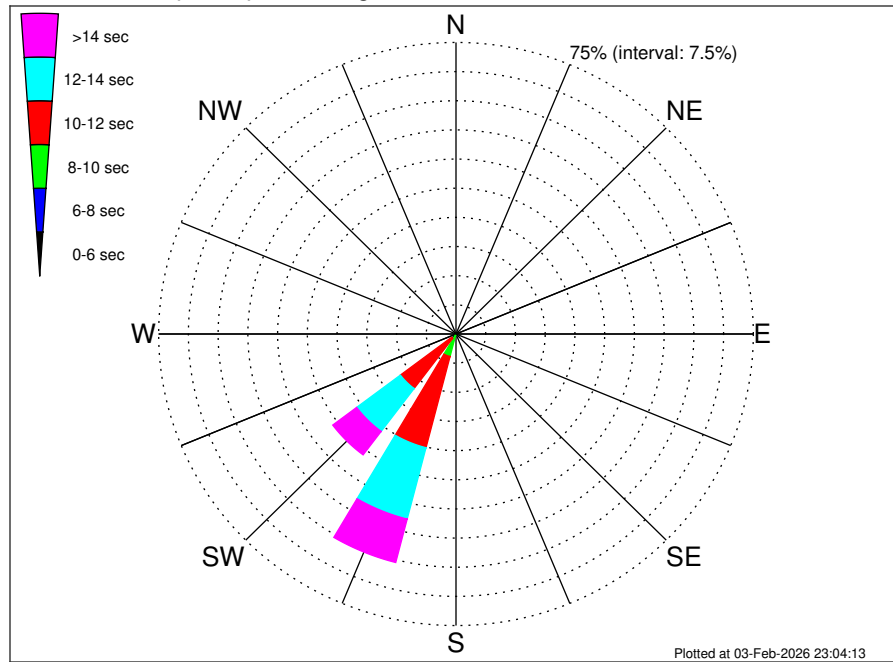
Angola Namibia CRS Luanda (BU-LU) Climatological WaveHeight Rose for December: 1979 - 2015



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	.	.	.	.	.	.	.	.	.	.	0.05	0.01	.	.	.	.	0.07
2 - 4 ft	.	.	.	.	.	.	.	.	0.07	19.29	21.05	0.10	0.01	0.08	.	.	40.60
4 - 6 ft	.	.	.	.	.	.	.	.	0.07	36.38	16.69	0.01	.	.	.	.	53.15
6 - 8 ft	.	.	.	.	.	.	.	.	.	4.97	1.14	.	.	.	.	.	6.11
8 - 10 ft	.	.	.	.	.	.	.	.	.	0.08	.	.	.	.	.	.	0.08
10 - 12 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
12 - 14 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14 - 16 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16 - 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
> 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	.	.	.	.	.	.	.	.	0.13	60.72	38.93	0.13	0.01	0.08	.	.	100.00

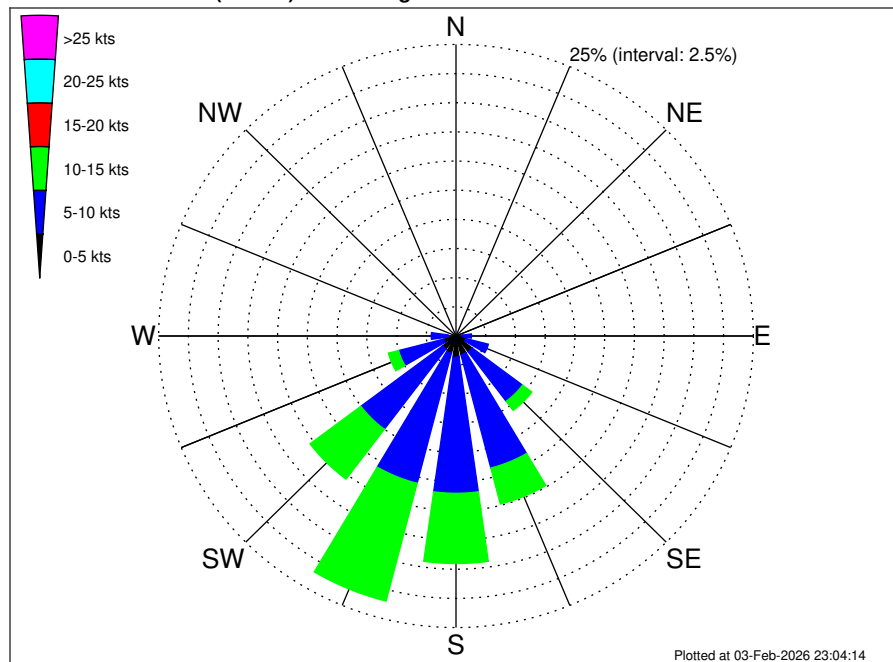
Angola Namibia CRS Luanda (BU-LU) Climatological WavePeriod Rose for December: 1979 - 2015



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	•	•	•	•	•	•	•	•	0.01	•	•	•	•	•	•	•	0.01
4 - 6 sec	•	•	•	•	•	•	•	•	0.04	0.09	•	•	•	•	•	•	0.13
6 - 8 sec	•	•	•	•	•	•	•	•	•	0.34	•	•	•	•	•	•	0.34
8 - 10 sec	•	•	•	•	•	•	•	•	•	5.55	1.43	0.01	•	•	•	•	7.00
10 - 12 sec	•	•	•	•	•	•	•	•	•	24.23	16.13	0.04	•	•	•	•	40.40
12 - 14 sec	•	•	•	•	•	•	•	•	0.01	18.96	13.83	•	•	•	•	•	32.80
14 - 16 sec	•	•	•	•	•	•	•	•	0.05	8.91	5.70	0.04	•	0.05	•	•	14.75
18 - 20 sec	•	•	•	•	•	•	•	•	0.01	2.28	1.55	0.04	0.01	0.03	•	•	3.92
22 - 24 sec	•	•	•	•	•	•	•	•	•	0.35	0.30	•	•	•	•	•	0.65
Total	•	•	•	•	•	•	•	•	0.13	60.72	38.93	0.13	0.01	0.08	•	•	100.00

Angola Namibia CRS Luanda (BU-LU) 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	0.01	•	0.01	0.01	0.01	0.03	0.05	0.05	0.07	0.01	0.03	0.01	0.04	0.03	0.01	0.01	0.39
0 - 5 kts	0.27	0.26	0.29	0.34	0.53	0.82	1.65	1.61	1.76	1.52	1.39	1.07	0.62	0.61	0.36	0.21	13.32
5 - 10 kts	0.17	0.10	0.38	0.43	0.75	1.96	5.31	10.03	11.67	11.51	8.60	3.90	1.42	0.61	0.36	0.36	57.57
10 - 15 kts	0.04	0.03	0.05	0.10	0.25	0.39	0.98	3.19	6.02	10.43	5.35	0.88	0.20	0.05	0.03	0.01	27.99
15 - 20 kts	•	•	•	0.03	•	0.03	0.01	0.09	0.12	0.35	0.08	0.01	0.01	•	•	•	0.73
20 - 25 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25 - 30 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.49	0.39	0.73	0.91	1.55	3.23	8.00	14.97	19.63	23.83	15.44	5.88	2.29	1.30	0.77	0.60	100.00