

Angola Namibia CRS Luanda (BU-LU) - July

Latitude: 8.85 S Longitude: 12.41 E

Weather Days

Wave Height > 5.0 ft Mean: 11.2 days Range: 6.4 - 16.0 days p50:11 days p75:7 days p90:5 days
Wave Height > 6.5 ft Mean: 2.7 days Range: 0.5 - 4.8 days p50:3.5 days p75:1 days p90:0.5 days
Wave Height > 8.0 ft Mean: 0.3 days Range: 0.0 - 0.9 days p50:30 days p75:1.5 days p90:0.5 days

Wind Speed > 15.0 knots Mean: 1.1 days Range: 0.4 - 1.7 days p50:1.5 days p75:1 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 1.8 times per month A 2 day or longer window will statistically occur 1.2 times per month A 3 day or longer window will statistically occur 0.7 times per month
Wave Height < 6.5 ft	A 1 day or longer window will statistically occur 3.4 times per month A 2 day or longer window will statistically occur 2.5 times per month A 3 day or longer window will statistically occur 2.0 times per month
Wave Height < 8.0 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 2.0 times per month

Waves

Mean Height: 6 - 8 ft
The wave heights will occasionally reach 10 - 12 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: SW

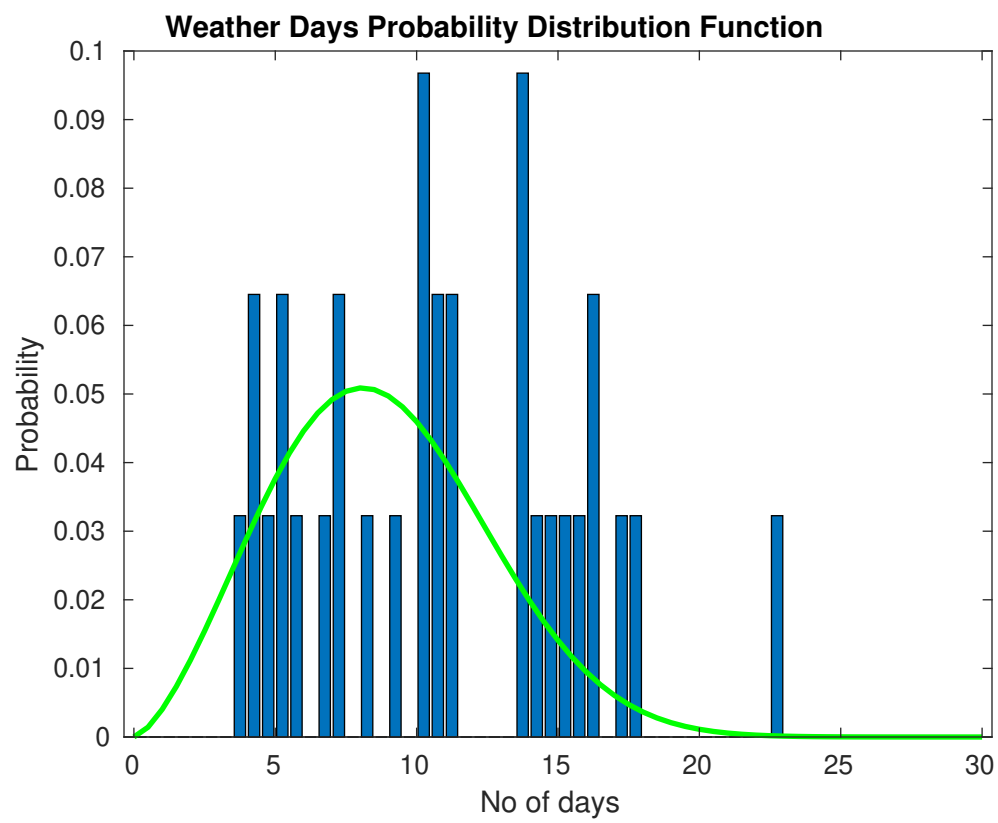
Currents

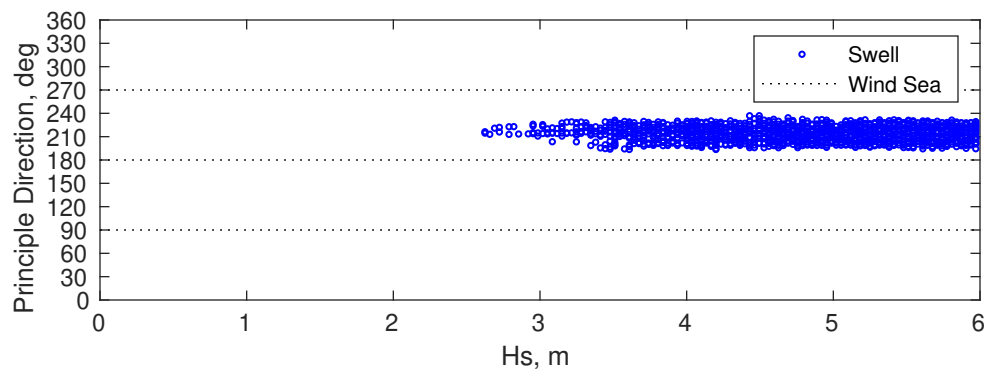
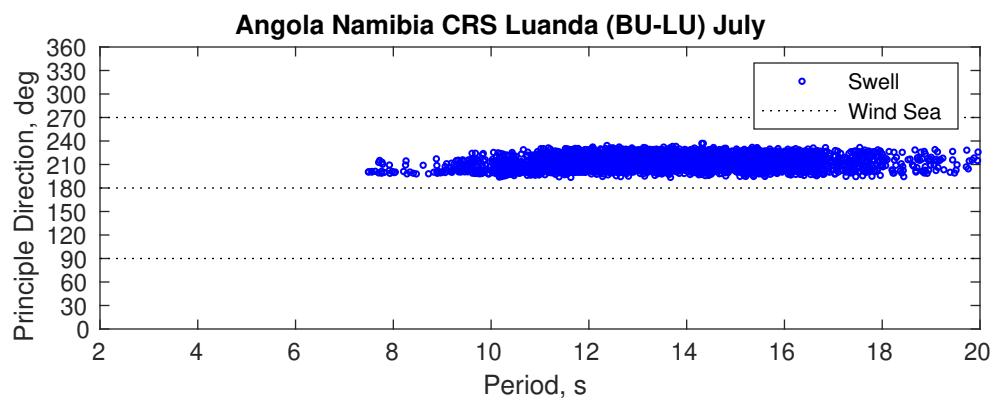
Mean Speed: 0.25-0.50 kts
The currents will occasionally reach 1.00-1.25 kts, but rarely greater.
Principle Direction, to: N

Weather Days
Current Speed > 0.5 knots Mean: 6.8 days Range: 0.4 - 13.2 days p50:7 days p75:3 days p90:1 days
Current Speed > 1.0 knots Mean: 0.2 days Range: 0.0 - 1.2 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

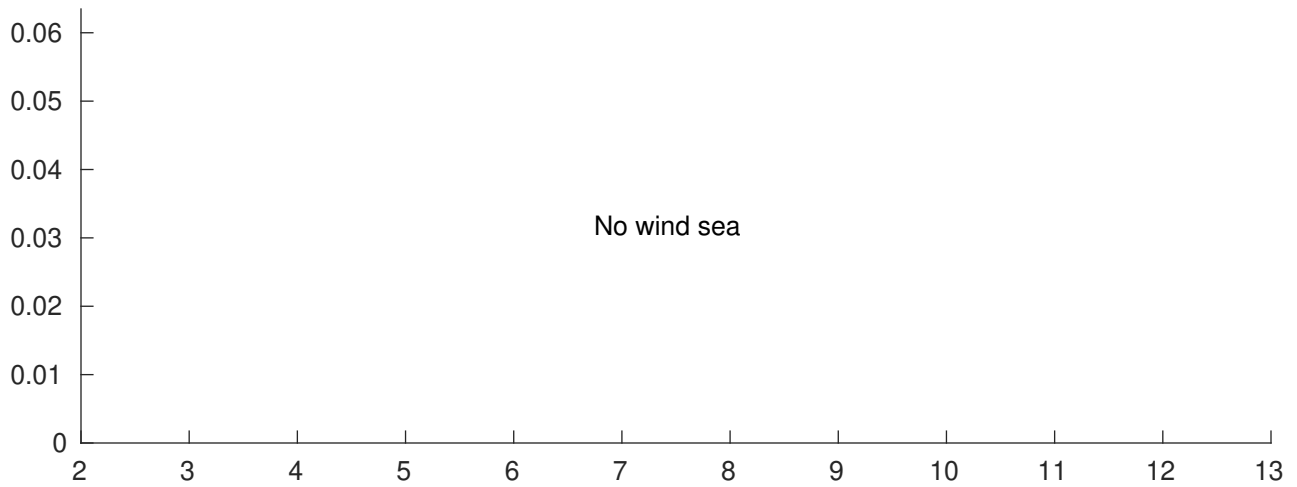
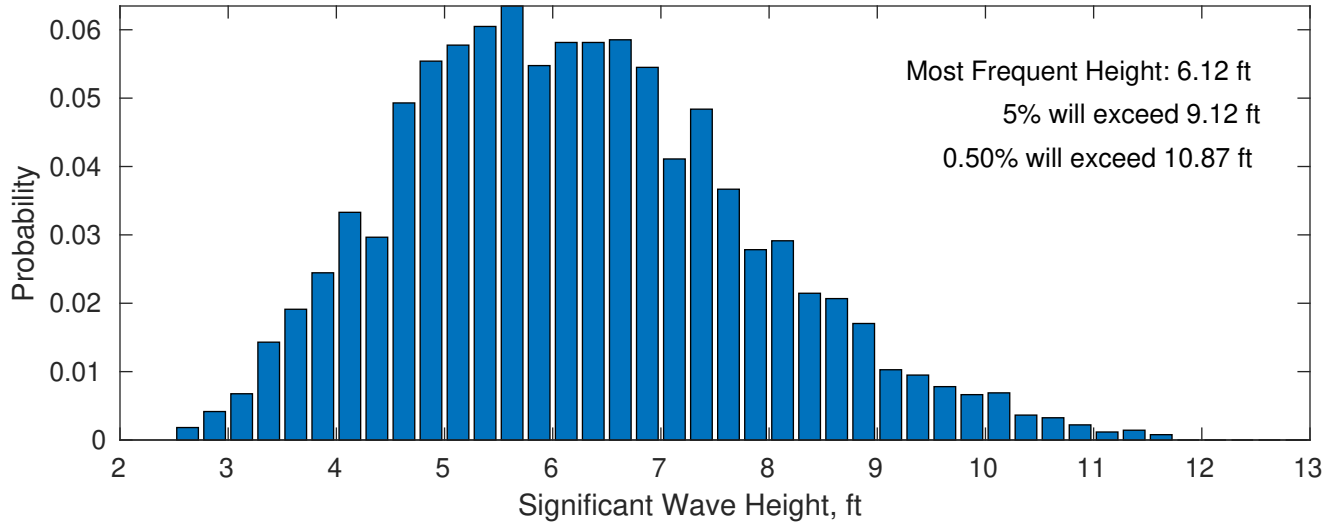
Severe Storms

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

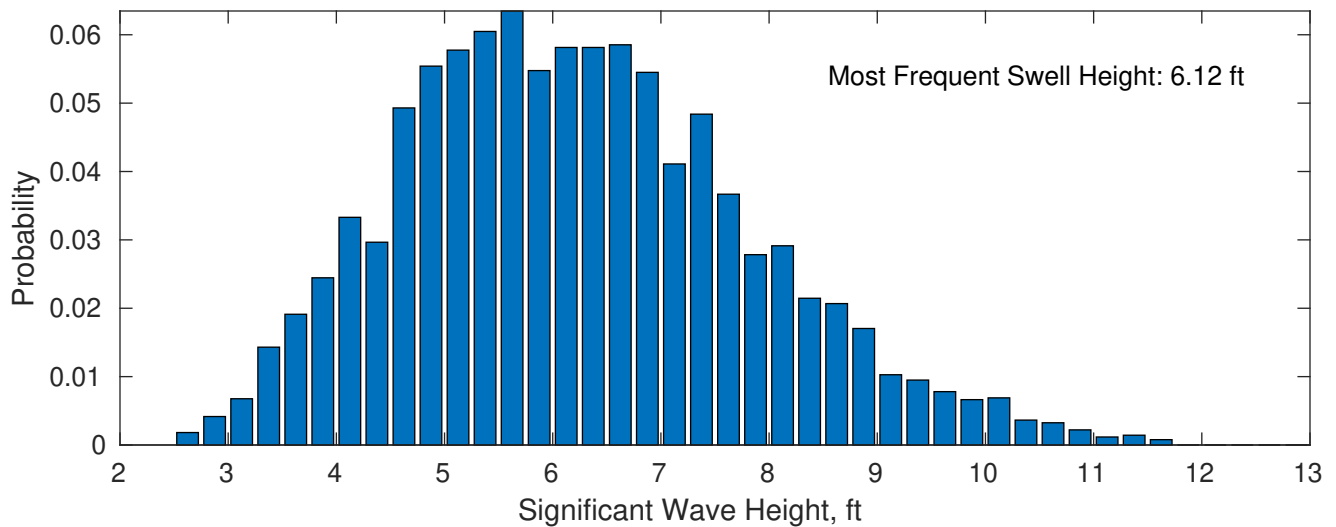




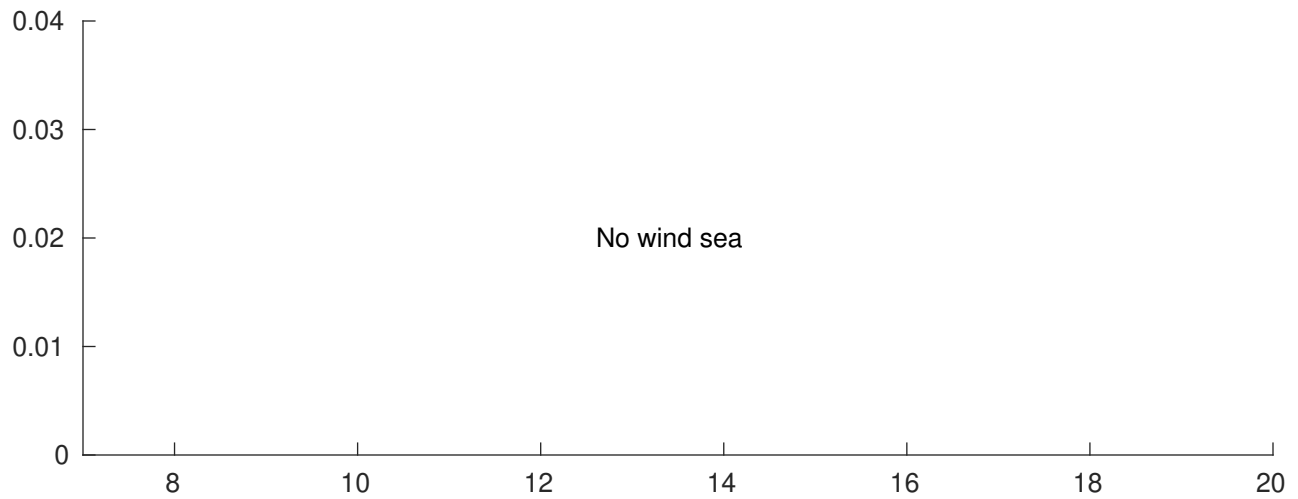
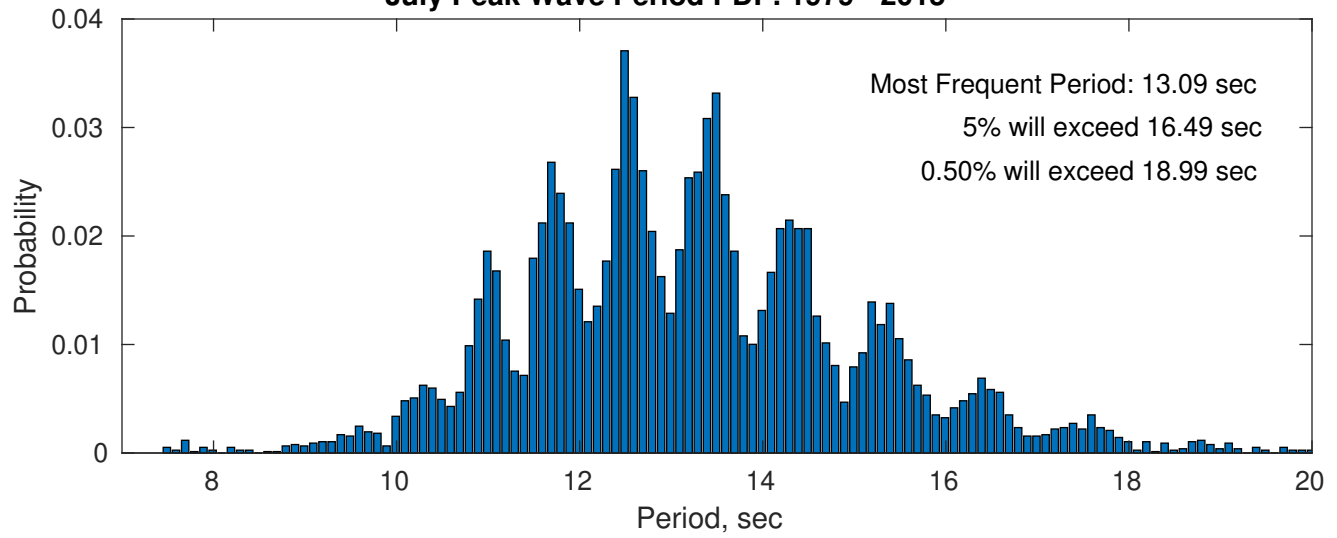
July Wave Height PDF: 1979 - 2015



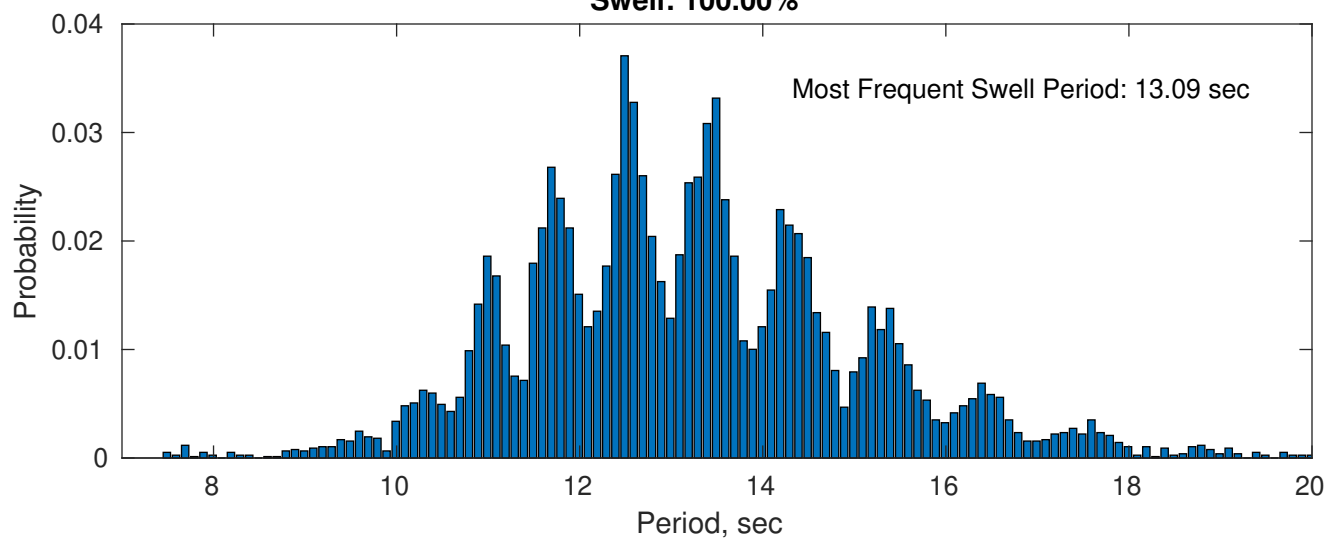
Swell: 100.00%



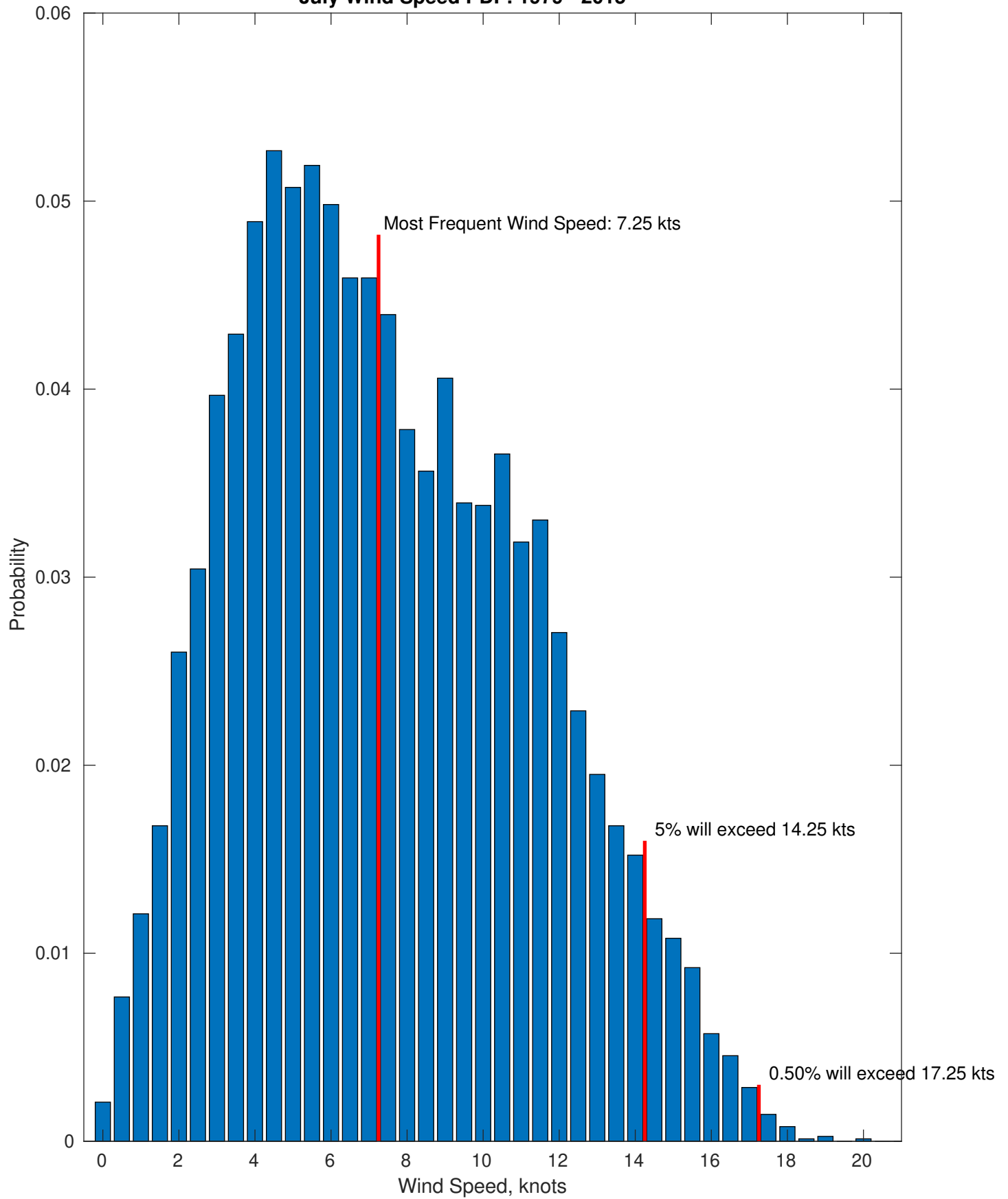
July Peak Wave Period PDF: 1979 - 2015



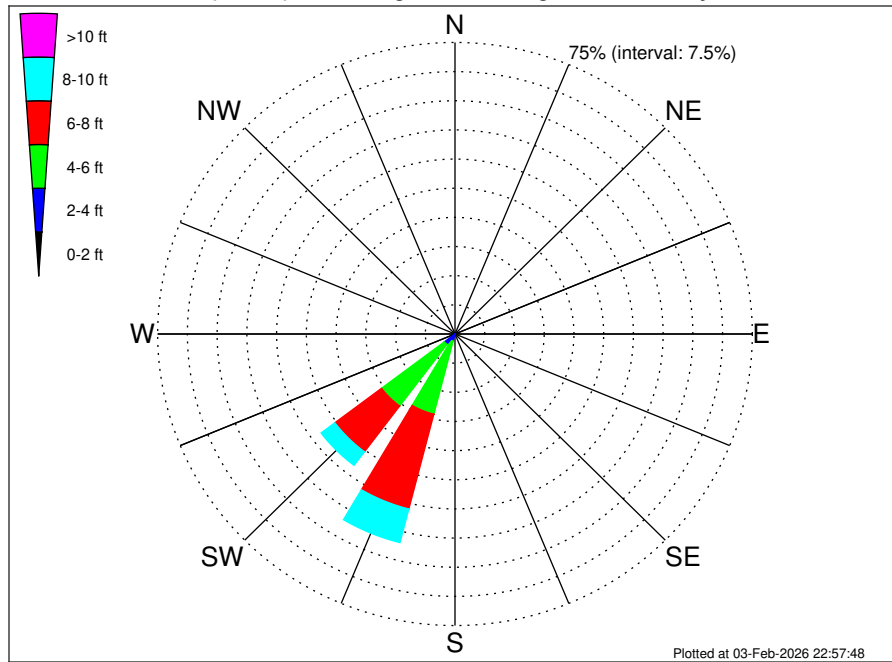
Swell: 100.00%



July Wind Speed PDF: 1979 - 2015



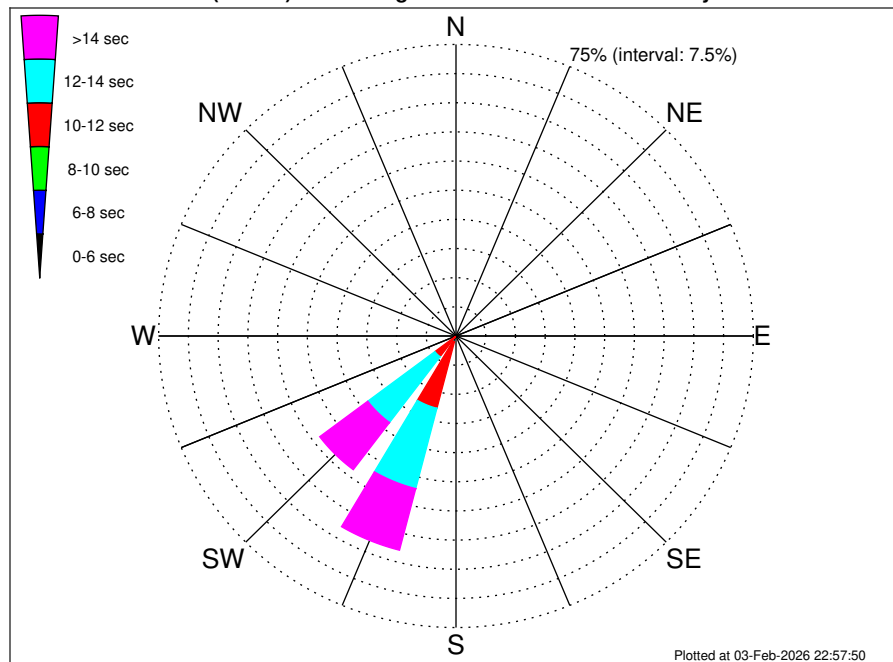
Angola Namibia CRS Luanda (BU-LU) Climatological WaveHeight Rose for July: 1979 - 2015



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	.	.	.	.	.	.	.	.	.	1.93	3.37	.	.	.	.	.	5.29
4 - 6 ft	.	.	.	.	.	.	.	.	.	19.38	19.84	0.03	.	.	.	.	39.24
6 - 8 ft	.	.	.	.	.	.	.	.	.	25.20	14.74	.	.	.	.	.	39.93
8 - 10 ft	.	.	.	.	.	.	.	.	.	8.94	4.36	.	.	.	.	.	13.29
10 - 12 ft	.	.	.	.	.	.	.	.	.	1.48	0.75	.	.	.	.	.	2.24
12 - 14 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
14 - 16 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
16 - 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
> 18 ft	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	.	.	.	.	.	.	.	.	.	56.92	43.05	0.03	.	.	.	.	100.00

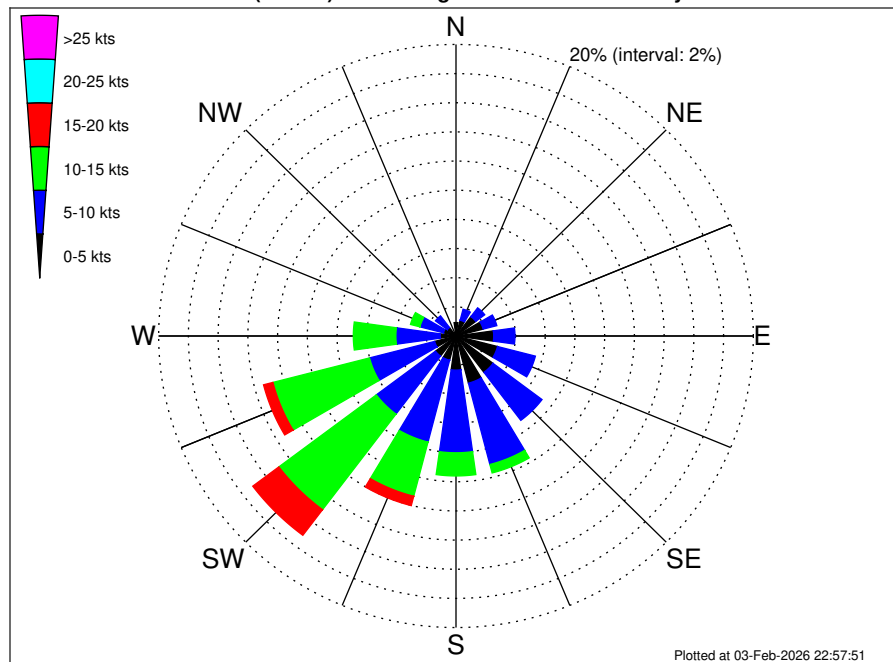
Angola Namibia CRS Luanda (BU-LU) Climatological WavePeriod Rose for July: 1979 - 2015



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	.	.	.	.	.	.	.	.	.	0.25	0.01	.	.	.	.	.	0.26
8 - 10 sec	.	.	.	.	.	.	.	.	.	1.39	0.30	.	.	.	.	.	1.69
10 - 12 sec	.	.	.	.	.	.	.	.	.	17.57	6.36	.	.	.	.	.	23.93
12 - 14 sec	.	.	.	.	.	.	.	.	.	21.34	21.20	.	.	.	.	.	42.55
14 - 16 sec	.	.	.	.	.	.	.	.	.	12.28	11.56	0.03	.	.	.	.	23.87
18 - 20 sec	.	.	.	.	.	.	.	.	.	3.54	2.97	.	.	.	.	.	6.50
22 - 24 sec	.	.	.	.	.	.	.	.	.	0.55	0.65	.	.	.	.	.	1.20
Total	.	.	.	.	.	.	.	.	.	56.92	43.05	0.03	.	.	.	.	100.00

Angola Namibia CRS Luanda (BU-LU) Climatological Wind Rose for July: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.07	0.07	0.03	0.12	0.07	0.08	0.10	0.05	0.04	0.05	0.07	0.04	0.04	0.08	0.05	0.04	0.98
0 - 5 kts	0.86	1.05	1.64	1.77	2.47	2.81	3.02	3.29	2.30	1.66	1.66	1.44	1.03	0.79	0.68	0.47	26.95
5 - 10 kts	0.25	0.78	0.75	0.95	1.43	2.63	4.12	5.76	5.67	5.80	4.98	4.53	2.98	1.64	1.00	0.35	43.63
10 - 15 kts	.	0.03	.	.	0.03	0.05	0.21	0.60	1.59	3.84	8.21	6.71	2.86	0.65	0.09	.	24.86
15 - 20 kts	.	.	.	.	.	.	.	.	0.01	0.66	2.20	0.65	0.03	0.03	.	.	3.58
20 - 25 kts	.	.	.	.	.	.	.	.	.	0.01	.	.	.	.	.	.	0.01
25 - 30 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
30 - 35 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
35 - 40 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
40 - 45 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
45 - 50 kts	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	1.17	1.93	2.42	2.84	3.99	5.57	7.45	9.70	9.61	12.03	17.12	13.37	6.93	3.19	1.82	0.86	100.00