

Angola Namibia CRS Oranjemund (BU-OR) - September

Latitude: 27.84 S Longitude: 14.78 E

Weather Days

Wave Height > 5.0 ft Mean: 25.0 days Range: 22.8 - 27.3 days p50:25 days p75:24 days p90:21.5 days
Wave Height > 6.5 ft Mean: 19.9 days Range: 17.1 - 22.6 days p50:20 days p75:18 days p90:16 days
Wave Height > 8.0 ft Mean: 13.8 days Range: 10.7 - 16.9 days p50:13.5 days p75:12 days p90:9.5 days

Wind Speed > 15.0 knots Mean: 16.6 days Range: 13.6 - 19.6 days p50:17.5 days p75:14.5 days p90:13.5 days
Wind Speed > 20.0 knots Mean: 9.9 days Range: 7.4 - 12.5 days p50:10 days p75:8 days p90:7.5 days
Wind Speed > 25.0 knots Mean: 4.2 days Range: 2.3 - 6.1 days p50:4.5 days p75:3 days p90:2.5 days

Working Window

Wave Height < 5.0 ft	A 1 day or longer window will statistically occur 0.8 times per month A 2 day or longer window will statistically occur 0.1 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 1.9 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 0.5 times per month
Wave Height < 8.0 ft	A 1 day or longer window will statistically occur 3.4 times per month A 2 day or longer window will statistically occur 1.9 times per month A 3 day or longer window will statistically occur 1.2 times per month

Waves

Mean Height: 8 - 10 ft
The wave heights will occasionally reach > 18 ft, but rarely higher.
Mean Period: 12 - 14 sec
The wave periods will occasionally reach 18 - 20 sec, but rarely longer.
Principle Direction, from: SW
WindSea/Swell: 5% / 95%

Winds

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

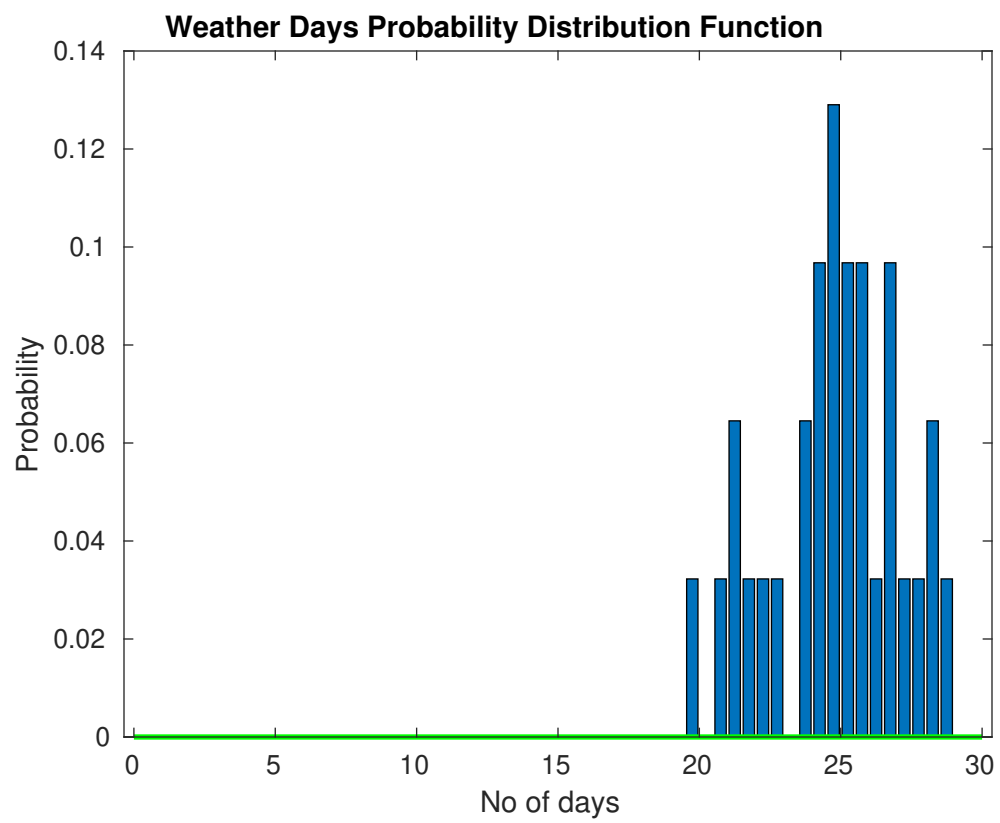
Currents

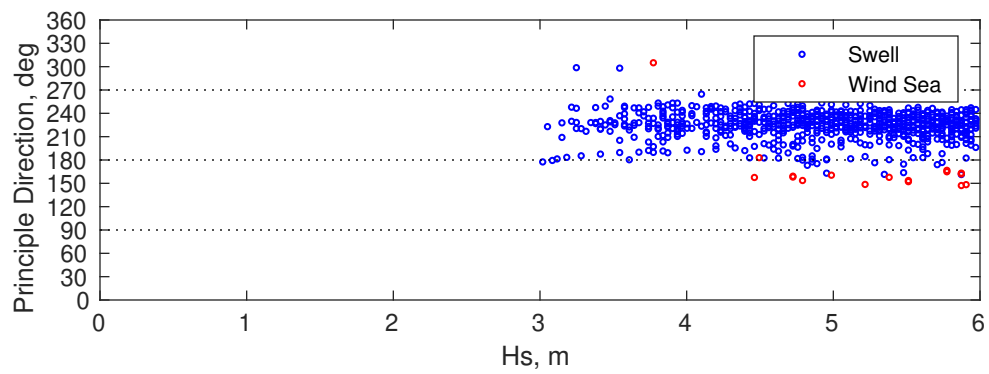
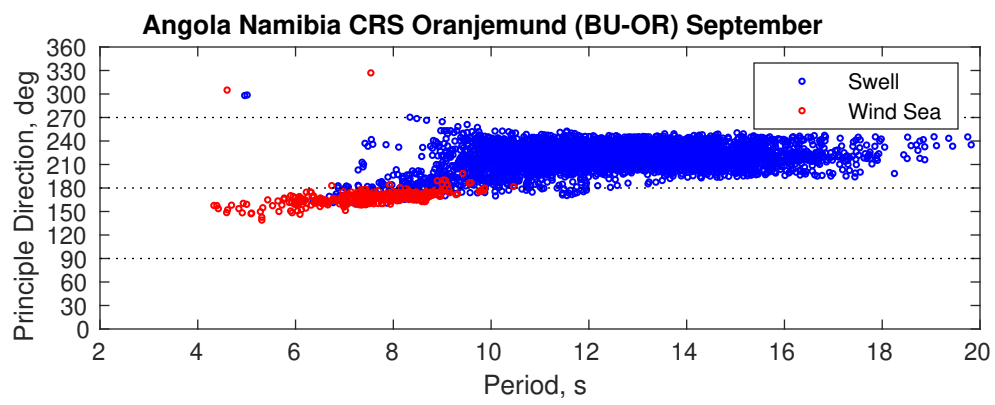
Mean Speed: 0.25-0.50 kts
The currents will occasionally reach 1.00-1.25 kts, but rarely greater.
Principle Direction, to: NW

Weather Days
Current Speed > 0.5 knots Mean: 10.7 days Range: 7.3 - 14.2 days p50:11 days p75:10 days p90:7 days
Current Speed > 1.0 knots Mean: 0.2 days Range: 0.0 - 0.7 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

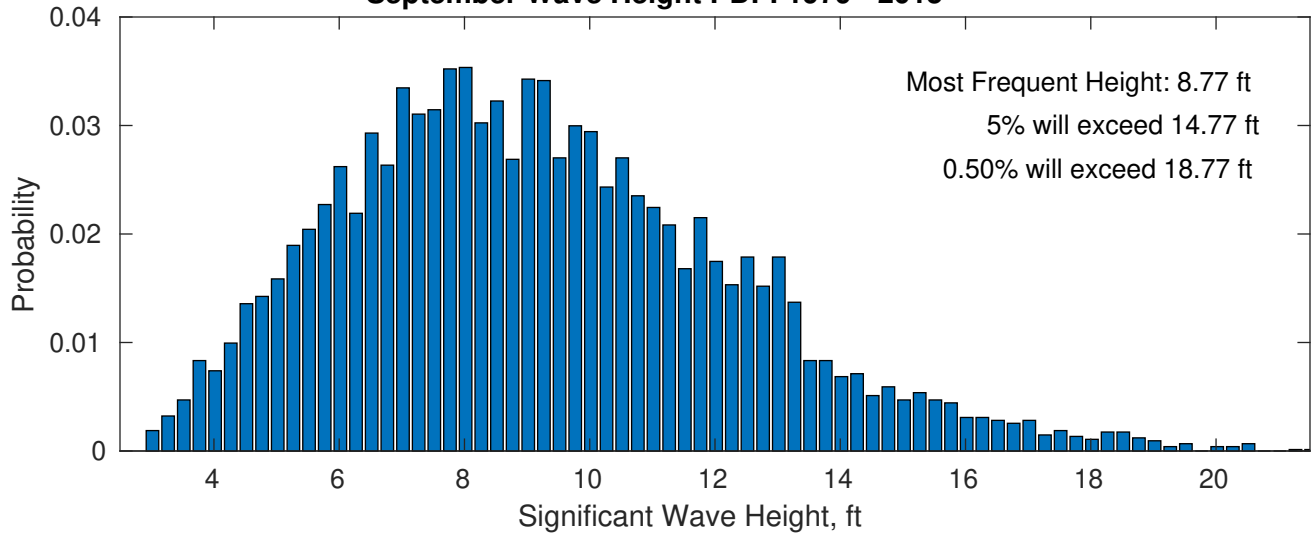
Severe Storms

There is a 3 % chance of a storm occurring in the month with winds peaking above 34 kts.
There is a 6 % chance of a storm occurring in the month with waves exceeding 3 m (10 ft) above the mean wave height.

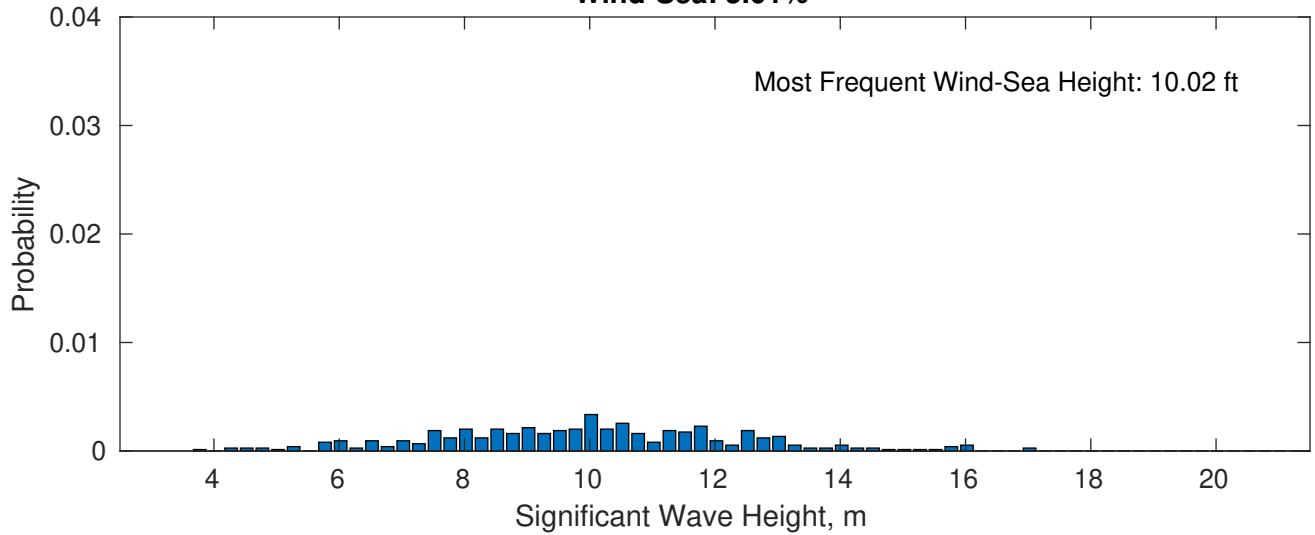




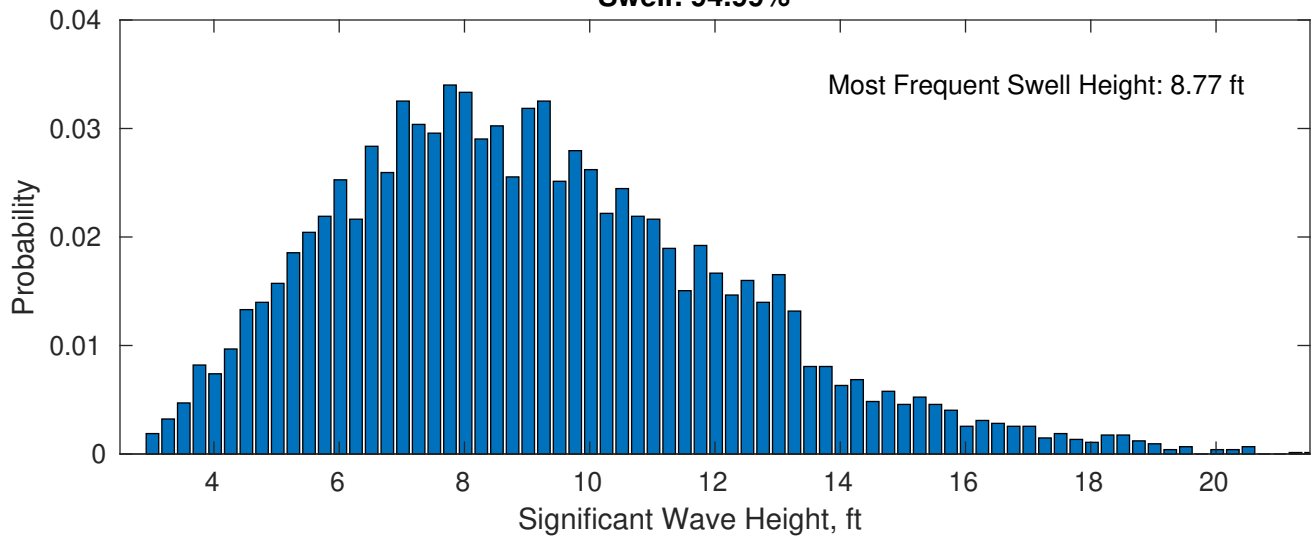
September Wave Height PDF: 1979 - 2015



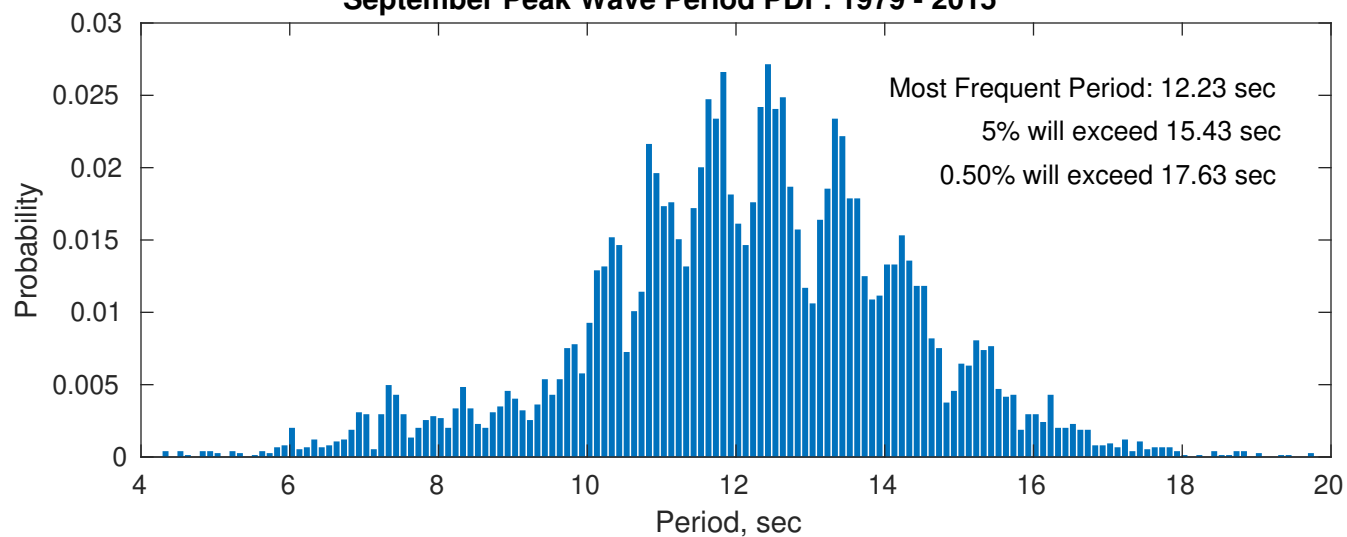
Wind-Sea: 5.01%



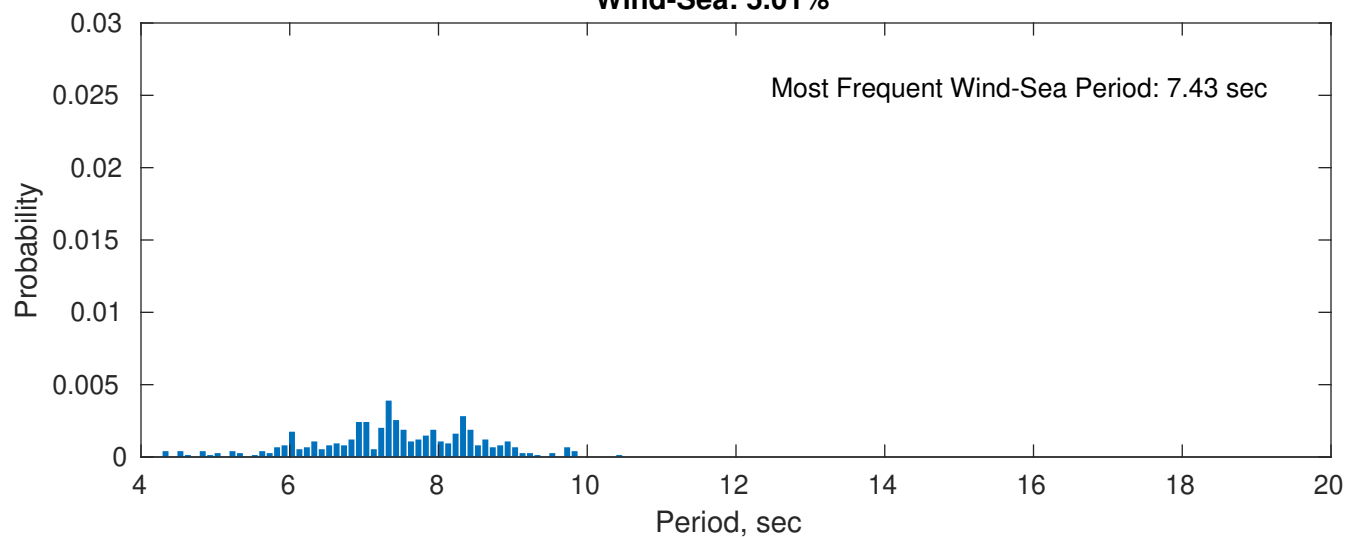
Swell: 94.99%



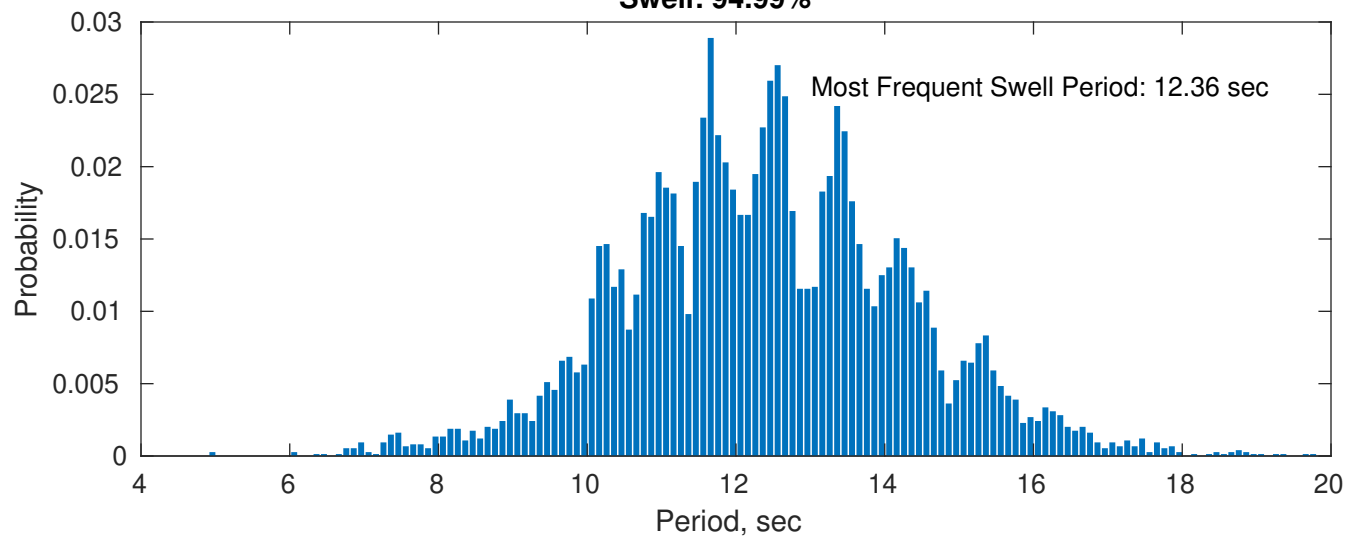
September Peak Wave Period PDF: 1979 - 2015



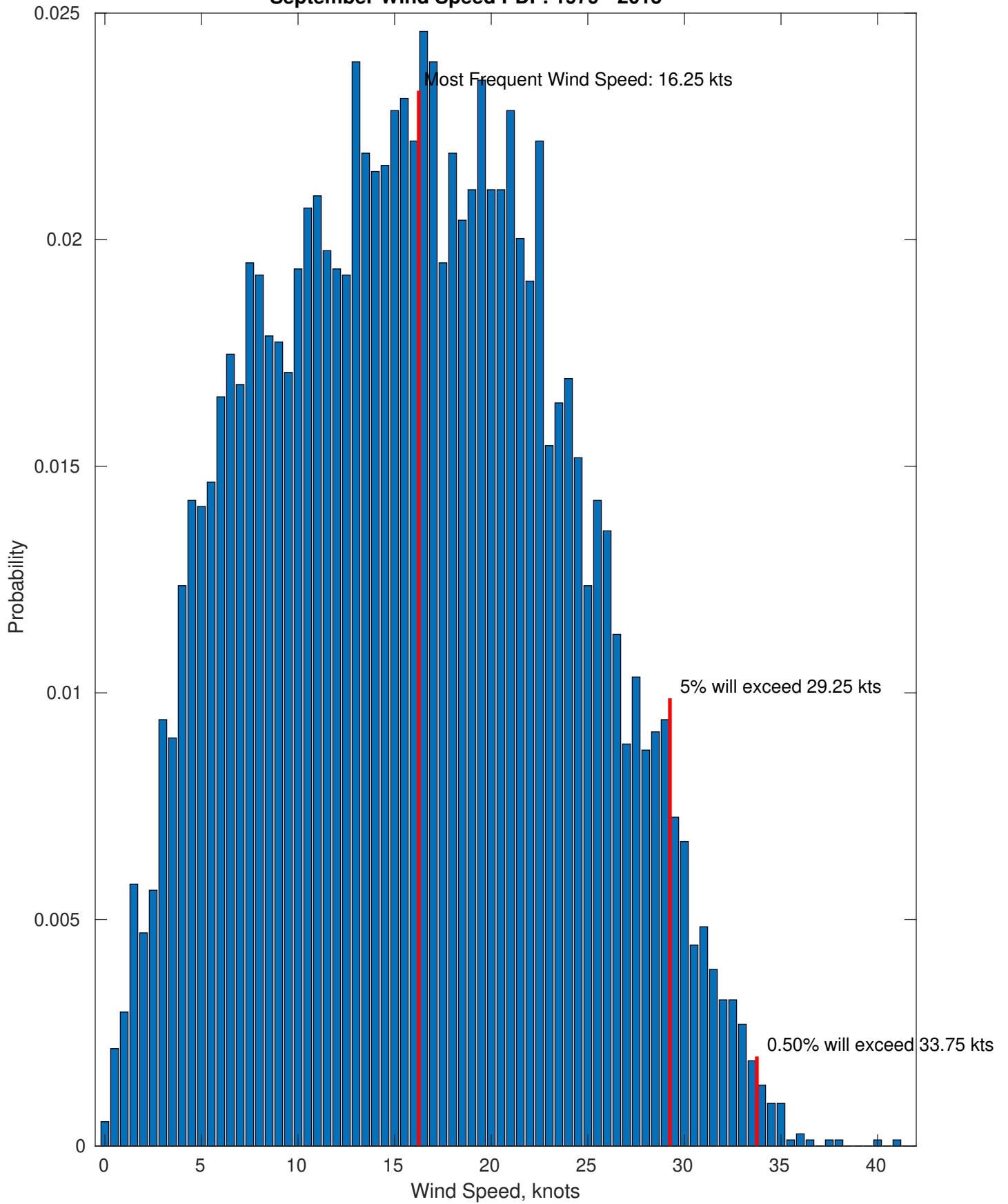
Wind-Sea: 5.01%



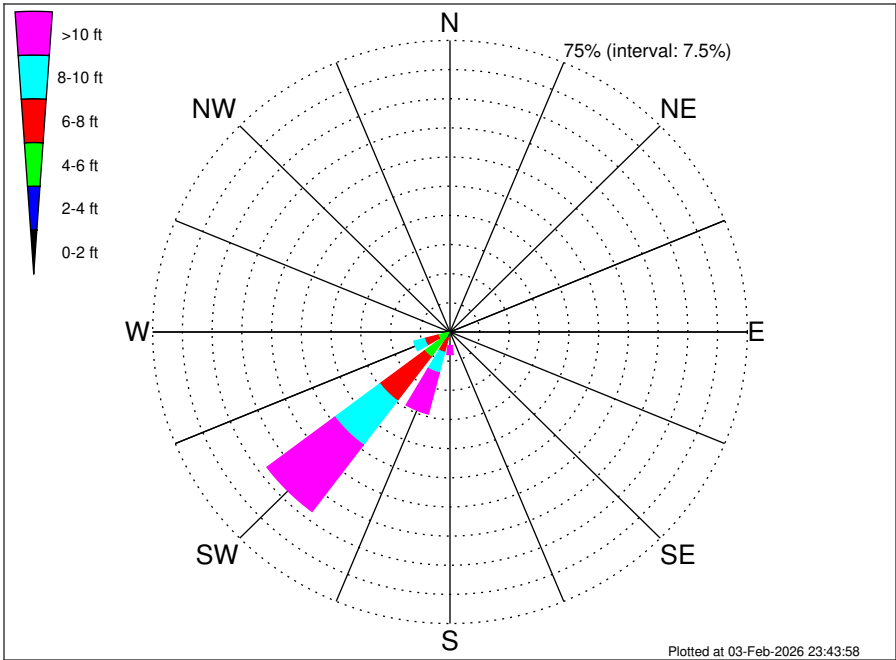
Swell: 94.99%



September Wind Speed PDF: 1979 - 2015



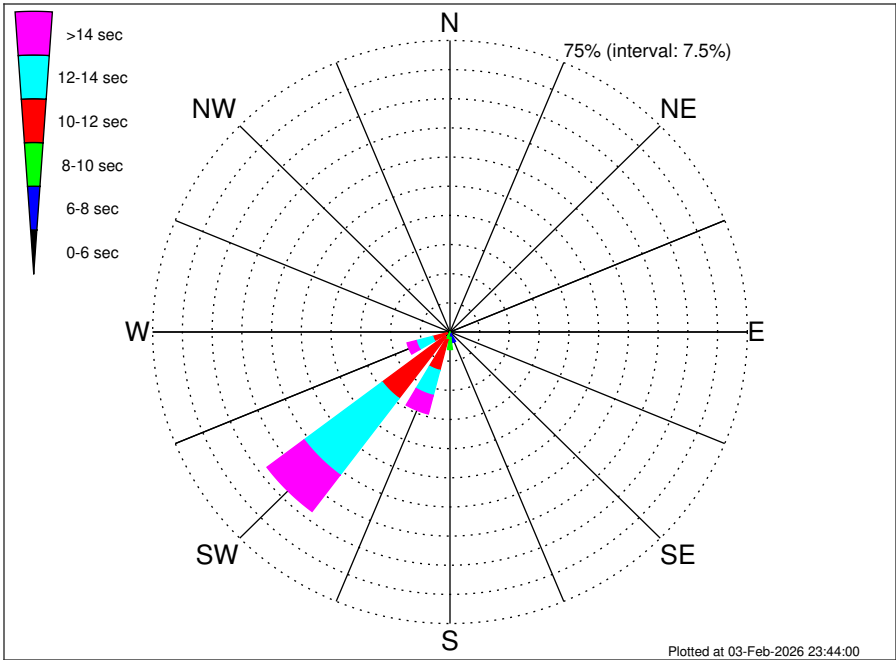
Angola Namibia CRS Oranjemund (BU-OR) Climatological WaveHeight Rose for September: 1979 - 2015



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	0.17	0.97	0.42	•	0.03	0.01	•	1.75
4 - 6 ft	•	•	•	•	•	•	•	0.26	0.40	1.51	7.07	2.73	0.05	•	•	•	12.02
6 - 8 ft	•	•	•	•	•	•	0.01	0.65	1.40	3.76	14.11	3.51	0.01	•	•	•	23.45
8 - 10 ft	•	•	•	•	•	•	0.01	1.01	1.59	5.44	14.25	2.81	•	•	•	•	25.11
10 - 12 ft	•	•	•	•	•	•	•	0.90	1.24	5.12	10.55	0.81	•	•	•	•	18.62
12 - 14 ft	•	•	•	•	•	•	•	0.35	0.70	3.16	6.65	0.67	•	•	•	•	11.53
14 - 16 ft	•	•	•	•	•	•	•	0.05	0.17	1.48	2.58	0.22	•	•	•	0.01	4.52
16 - 18 ft	•	•	•	•	•	•	•	•	0.15	0.62	1.13	0.04	•	•	•	•	1.94
> 18 ft	•	•	•	•	•	•	•	•	0.04	0.54	0.50	•	•	•	•	•	1.08
Total	•	•	•	•	•	•	0.03	3.21	5.83	21.80	57.81	11.20	0.07	0.03	0.01	0.01	100.00

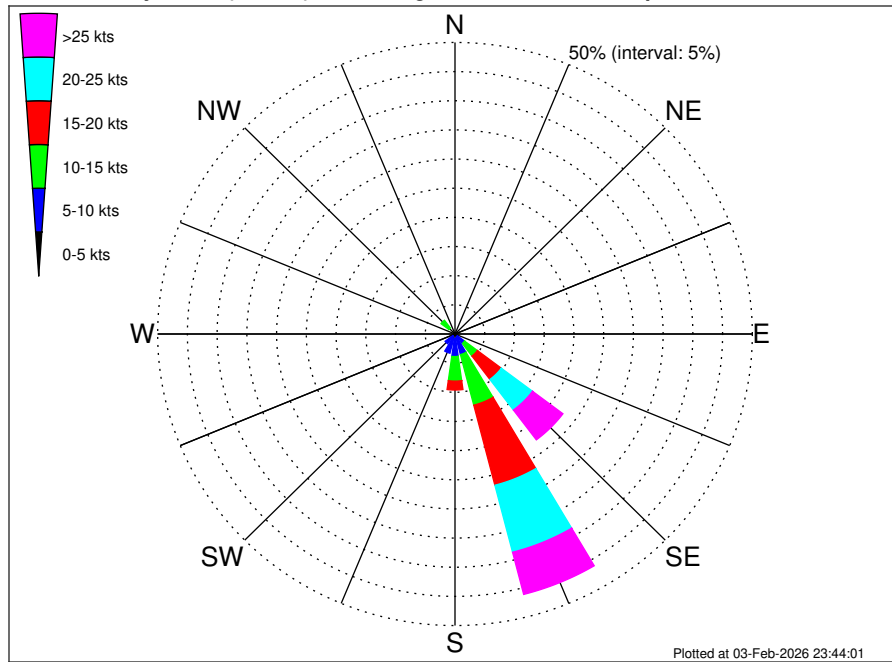
Angola Namibia CRS Oranjemund (BU-OR) Climatological WavePeriod Rose for September: 1979 - 2015



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	.	.	.	.	.	.	0.03	0.38	0.03	.	.	.	.	0.03	0.01	.	0.47
6 - 8 sec	.	.	.	.	.	.	.	2.41	1.41	0.08	0.04	0.04	.	.	.	0.01	3.99
8 - 10 sec	.	.	.	.	.	.	.	0.43	3.10	2.02	1.64	0.75	0.07	.	.	.	8.01
10 - 12 sec	.	.	.	.	.	.	.	.	1.14	8.12	19.73	3.71	.	.	.	.	32.70
12 - 14 sec	.	.	.	.	.	.	.	.	0.15	6.64	24.68	4.31	.	.	.	.	35.78
14 - 16 sec	.	.	.	.	.	.	.	.	.	4.31	9.68	1.84	.	.	.	.	15.83
18 - 20 sec	.	.	.	.	.	.	.	.	.	0.62	1.88	0.44	.	.	.	.	2.94
22 - 24 sec	.	.	.	.	.	.	.	.	.	0.01	0.16	0.09	.	.	.	.	0.27
Total	.	.	.	.	.	.	0.03	3.21	5.83	21.80	57.81	11.20	0.07	0.03	0.01	0.01	100.00

Angola Namibia CRS Oranjemund (BU-OR) Climatological Wind Rose for September: 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	0.03	0.01	0.01	•	0.03	0.01	0.03	•	0.03	0.01	0.01	•	0.04	0.01	0.01	0.27
0 - 5 kts	0.30	0.19	0.12	0.20	0.24	0.39	0.50	0.58	0.81	0.74	0.47	0.56	0.38	0.43	0.28	0.23	6.41
5 - 10 kts	0.22	0.05	0.04	0.07	0.17	0.59	1.52	3.04	3.06	2.63	1.60	0.77	0.89	1.08	0.99	0.38	17.10
10 - 15 kts	0.05	•	•	•	0.03	0.20	2.70	8.97	4.21	0.87	0.20	0.22	0.42	0.63	1.65	0.69	20.83
15 - 20 kts	•	•	•	•	•	0.15	5.03	14.18	1.53	0.07	0.04	0.09	0.05	0.17	0.63	0.36	22.31
20 - 25 kts	•	•	•	•	0.04	0.07	6.57	11.87	0.15	0.03	•	0.01	0.08	0.03	0.13	0.05	19.03
25 - 30 kts	0.01	•	•	•	0.01	0.01	4.66	5.69	0.01	0.01	•	•	•	0.01	0.03	0.07	10.52
30 - 35 kts	•	•	•	•	•	•	1.65	1.67	•	•	•	•	•	•	•	•	3.32
35 - 40 kts	•	•	•	•	•	•	0.08	0.09	•	•	•	•	•	•	•	•	0.17
40 - 45 kts	•	•	•	•	•	•	•	0.03	•	•	•	•	•	•	•	•	0.03
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.60	0.27	0.17	0.28	0.50	1.44	22.73	46.13	9.77	4.38	2.33	1.67	1.81	2.39	3.74	1.79	100.00