

Orsted OCW02 - June

Latitude: 39.06 N Longitude: 74.47 W

Weather Days

Wave Height > 3.0 ft Mean: 11.1 days Range: 7.2 - 15.1 days p10:17 days p50:11 days p90:6.5 days

Wave Height > 4.0 ft Mean: 4.4 days Range: 1.5 - 7.2 days p10:9.5 days p50:4 days p90:2 days

Wave Height > 5.0 ft Mean: 1.4 days Range: 0.0 - 2.7 days p10:4 days p50:1 days p90:0.5 days

Wind Speed > 20.0 knots Mean: 0.4 days Range: 0.0 - 0.7 days p10:1 days p50:0.5 days p90:0.5 days

Wind Speed > 25.0 knots Mean: 0.0 days Range: 0.0 - 0.1 days p10:0.5 days p50:0.5 days p90:0.5 days

Wind Speed > 30.0 knots Mean: 0.0 days Range: 0.0 - 0.0 days p10:0.5 days p50:0.5 days p90:0.5 days

Working Window Probability

Wave Height < 3.0 ft
3 days or longer: 43%
5 days or longer: 12%
7 days or longer: 4%

Wave Height < 4.0 ft
3 days or longer: 67%
5 days or longer: 34%
7 days or longer: 24%

Wave Height < 5.0 ft
3 days or longer: 75%
5 days or longer: 49%
7 days or longer: 40%

Waves

Mean Height: 2 - 4 ft

The wave heights will occasionally reach 6 - 8 ft, but rarely higher.

Mean Period: 6 - 8 sec

The wave periods will occasionally reach 14 - 16 sec, but rarely longer.

Principle Direction, from: ESE

WindSea/Swell: 12% / 88%

Winds

Mean Speed: 5 - 10 kts

The winds will occasionally reach 20 - 25 kts, but rarely greater.

Principle Direction, from: SSW

Currents

Mean Speed: 0.25-0.50 kts

The currents will occasionally reach 1.25-1.50 kts, but rarely greater.

Principle Direction, to: NE

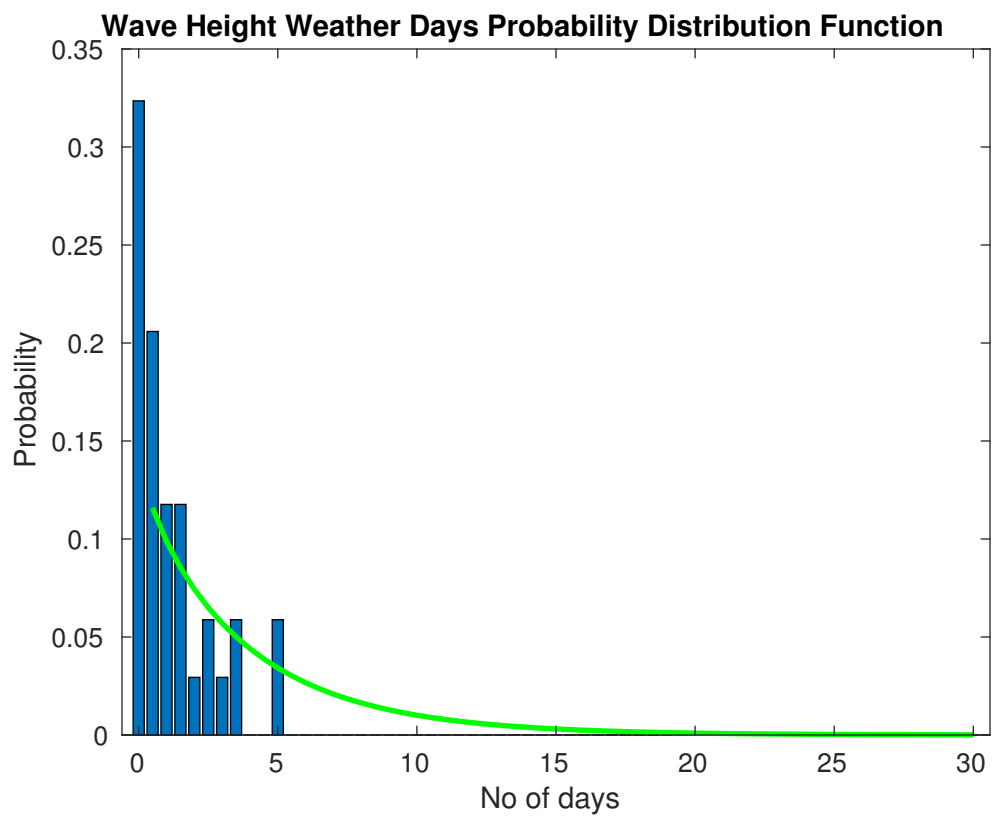
Current Speed > 1.0 knots Mean: 1.2 days Range: 0.0 - 2.4 days p10:4 days p50:1.1875 days p80:1 days

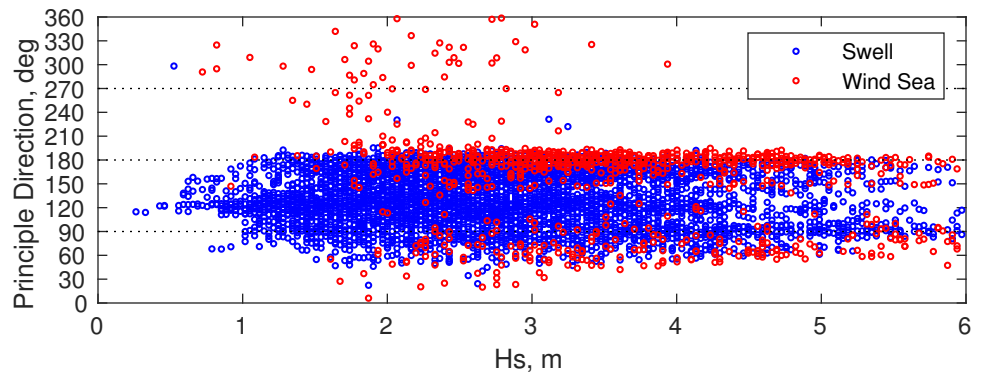
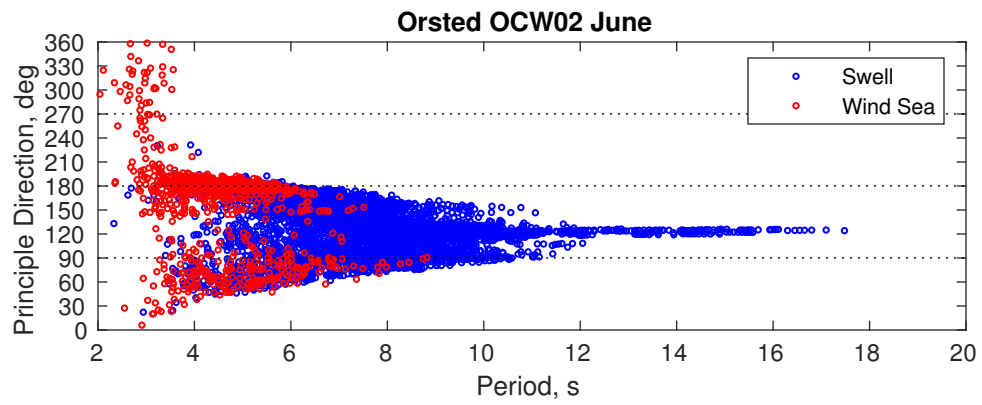
Current Speed > 1.5 knots Mean: 0.0 days Range: 0.0 - 0.0 days p10:1 days p50:0 days p80:1 days

Current Speed > 2.0 knots Mean: 0.0 days Range: 0.0 - 0.0 days p10:1 days p50:0 days p80:1 days

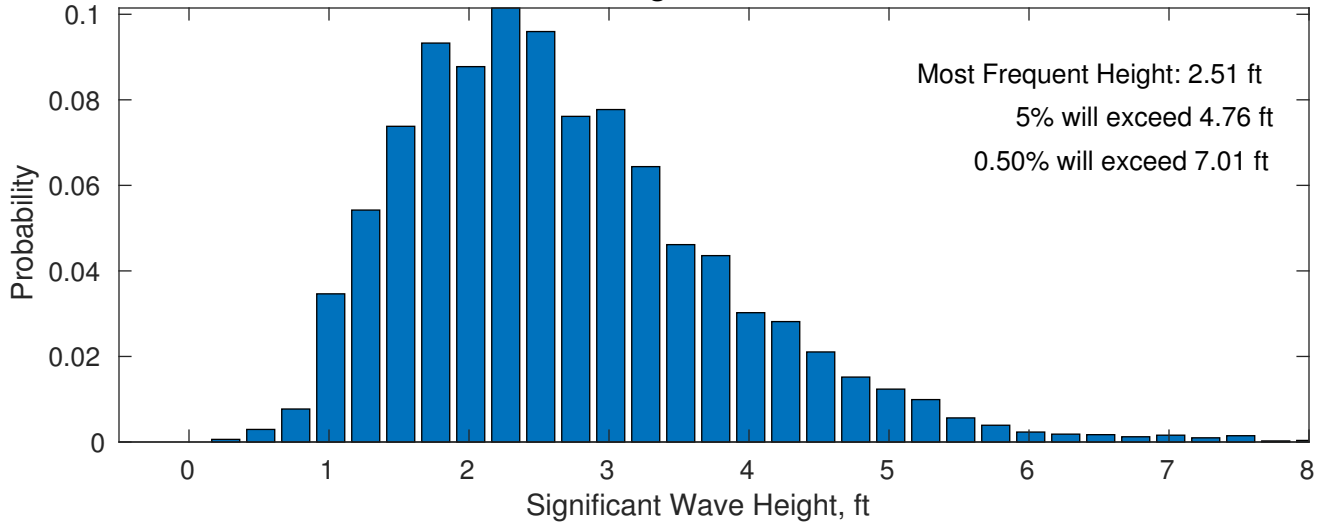
Severe Storms

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

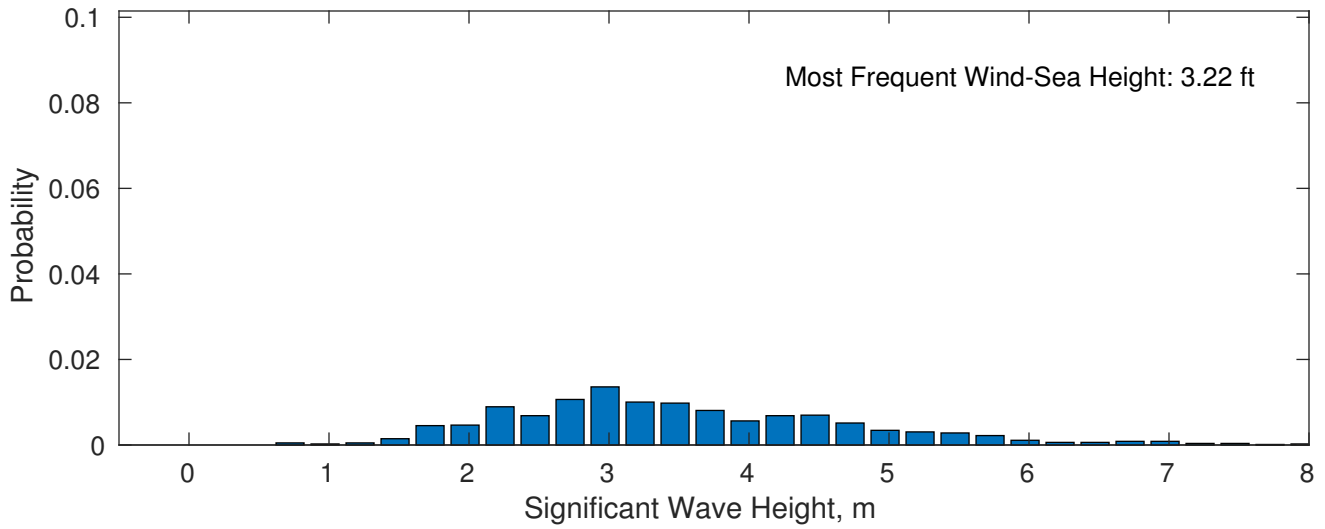




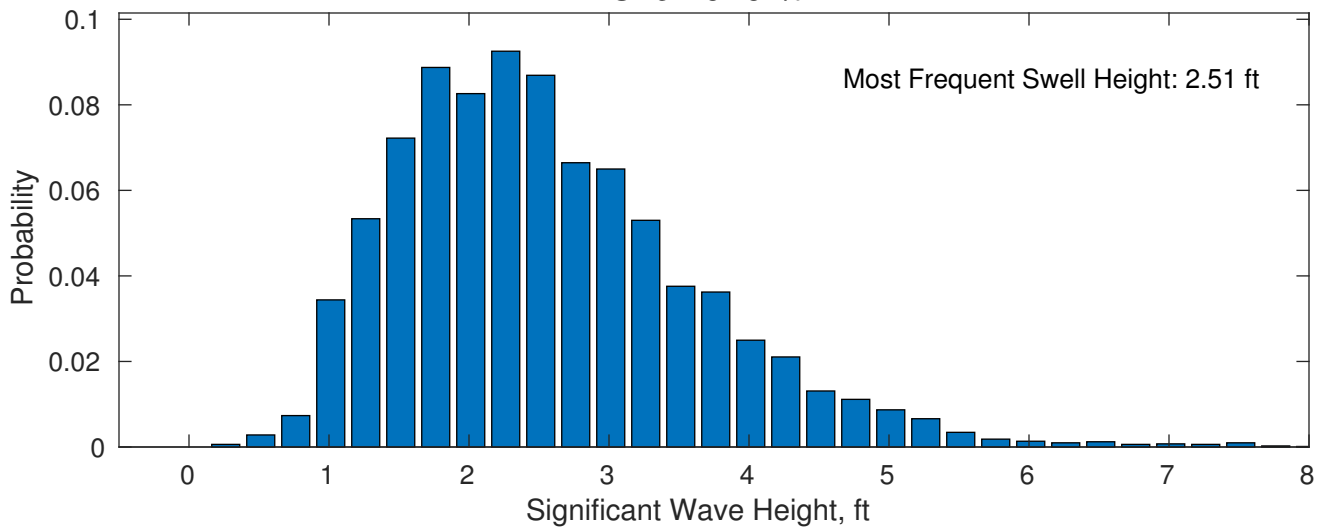
June Wave Height PDF: 1979 - 2015



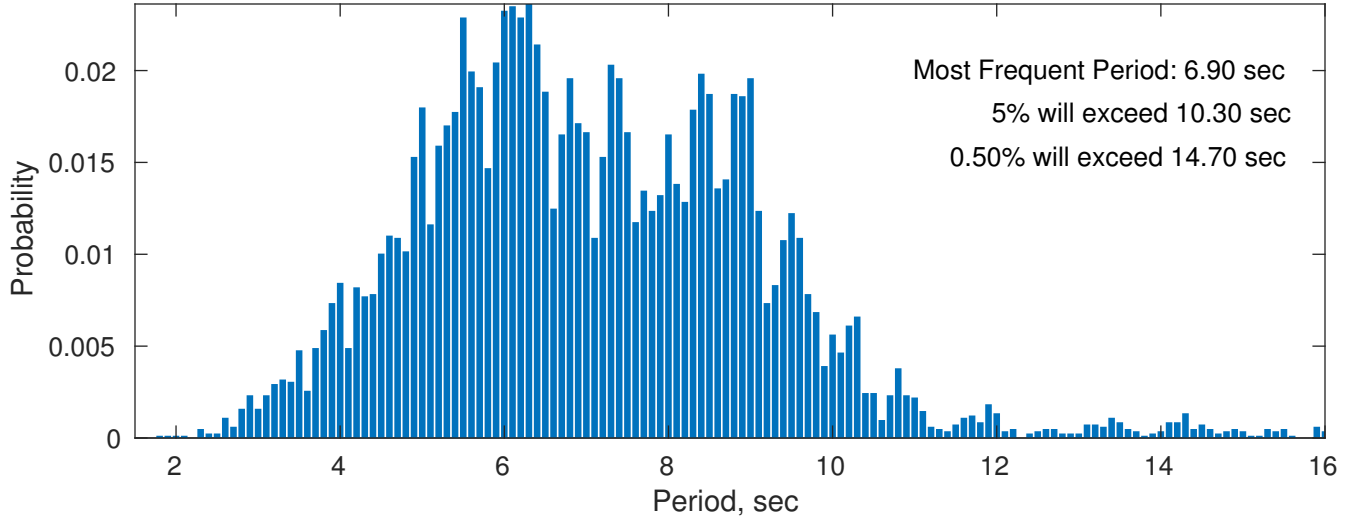
Wind-Sea: 12.19%



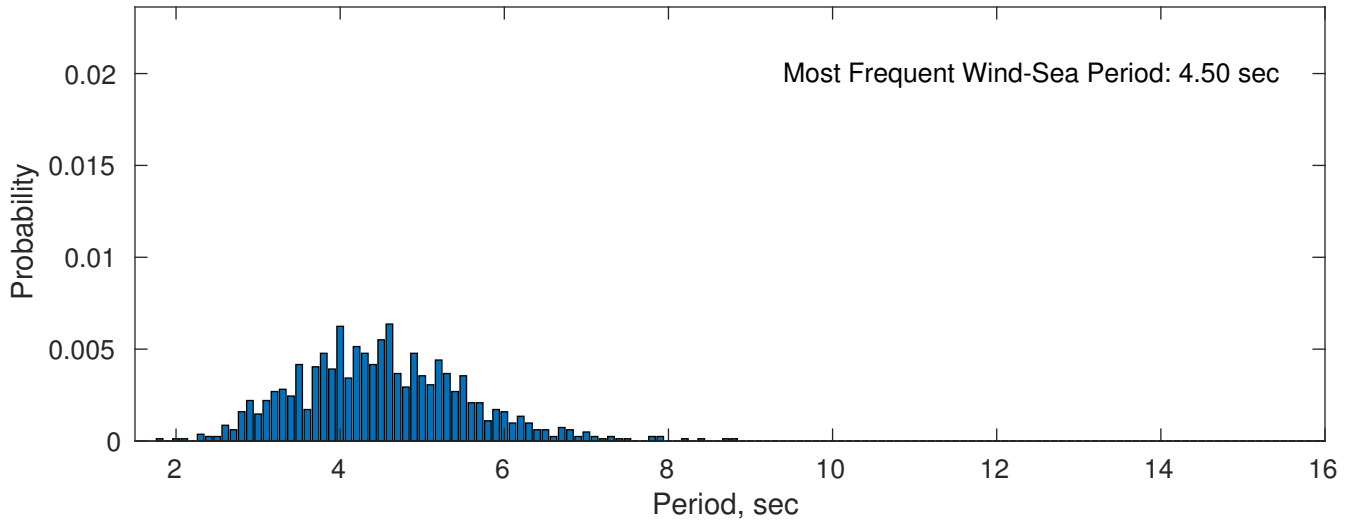
Swell: 87.81%



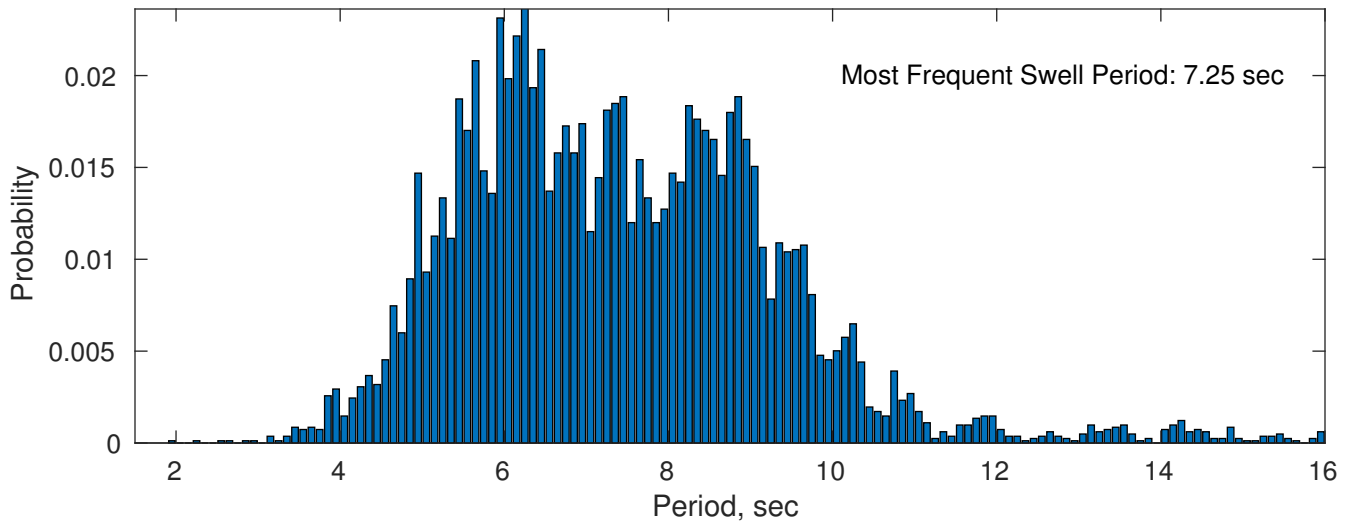
June Peak Wave Period PDF: 1979 - 2015



Wind-Sea: 12.19%

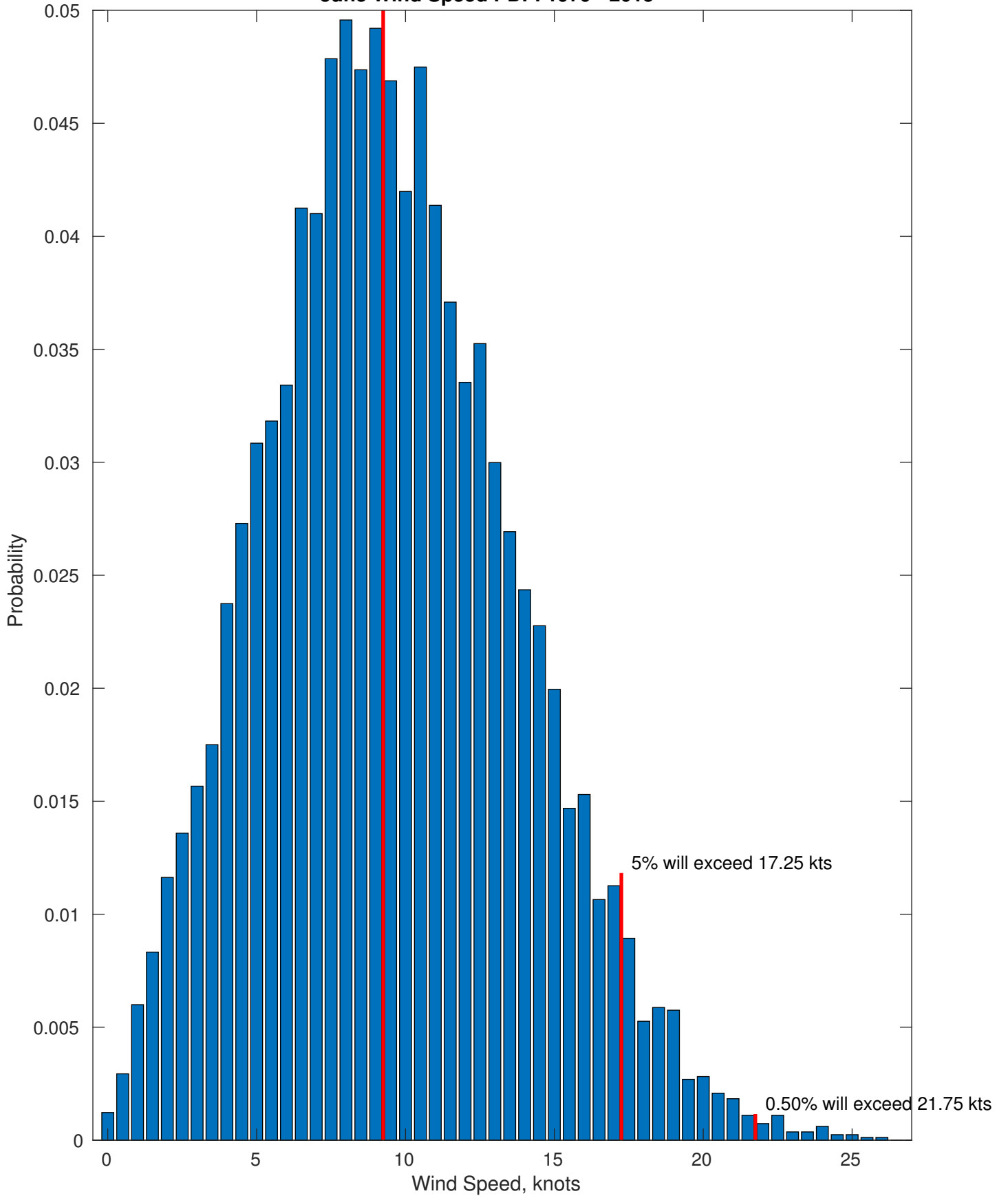


Swell: 87.81%

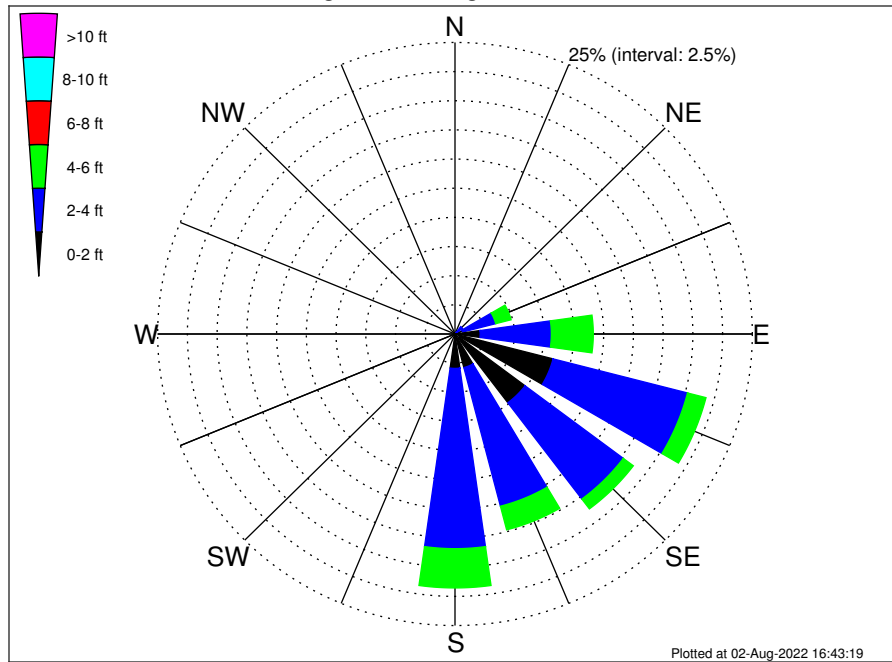


Most Frequent Wind Speed: 9.25 kts

June Wind Speed PDF: 1979 - 2015



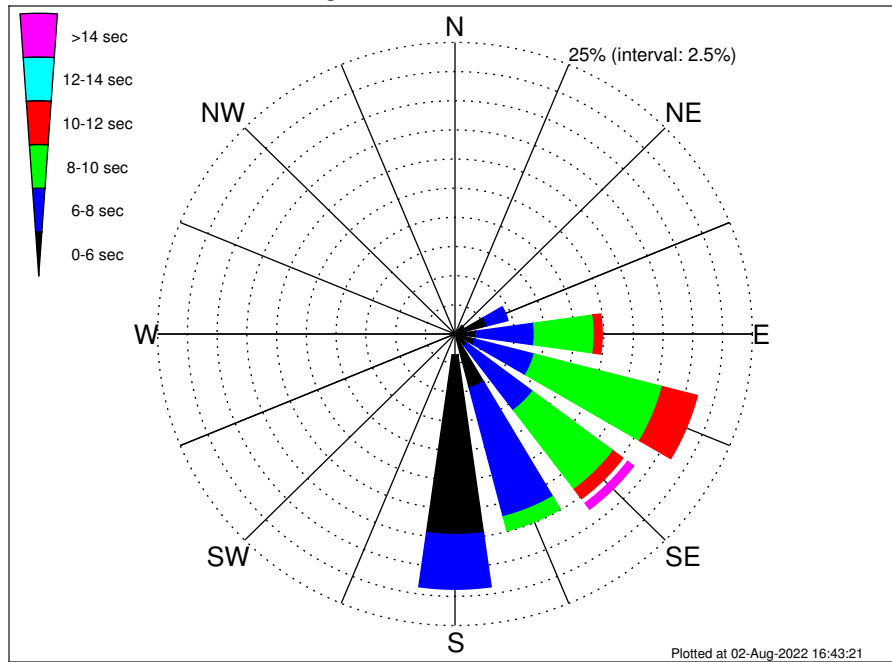
Orsted OCW02 Climatological WaveHeight Rose for June: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	0.04	•	0.39	0.48	0.15	0.02	•	•	•	•	0.04	0.01	•	1.13
1 - 2 ft	0.01	0.02	0.16	0.62	2.12	8.13	6.90	2.83	2.93	0.16	0.02	0.06	0.06	0.06	0.07	0.01	24.17
2 - 4 ft	0.05	0.10	0.64	2.88	5.99	11.68	10.34	12.28	15.46	0.43	0.11	0.01	0.05	0.07	0.09	0.04	60.20
4 - 6 ft	•	•	0.12	1.33	3.53	1.60	1.05	2.09	3.37	0.06	•	•	•	•	•	•	13.16
6 - 8 ft	•	•	•	0.16	0.61	0.11	0.02	0.15	0.11	•	•	•	•	•	•	•	1.16
8 - 10 ft	•	•	•	0.04	0.09	•	•	0.01	•	•	•	•	•	•	•	•	0.13
10 - 12 ft	•	•	•	•	0.05	•	•	•	•	•	•	•	•	•	•	•	0.05
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.06	0.12	0.92	5.07	12.37	21.91	18.80	17.50	21.88	0.65	0.13	0.07	0.11	0.17	0.17	0.05	100.00

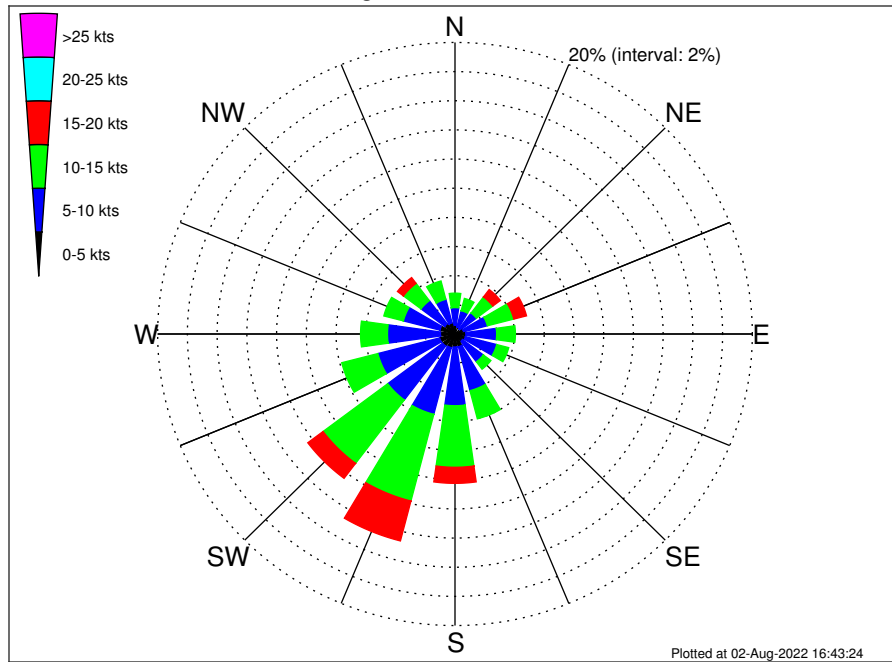
Orsted OCW02 Climatological WavePeriod Rose for June: 1979 - 2015



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	•	•	•	•	•	•	•	•	•	•	•	•	•	0.02	•	•	0.02
2 - 4 sec	0.06	0.12	0.21	0.44	0.22	0.11	0.13	0.40	1.79	0.51	0.12	0.07	0.11	0.15	0.17	0.05	4.68
4 - 6 sec	•	•	0.71	2.33	1.53	1.62	1.14	4.36	15.41	0.13	0.01	•	•	•	•	•	27.23
6 - 8 sec	•	•	•	1.84	4.92	5.15	6.90	11.42	4.69	•	•	•	•	•	•	•	34.92
8 - 10 sec	•	•	•	0.47	5.04	11.13	8.48	1.25	•	•	•	•	•	•	•	•	26.36
10 - 12 sec	•	•	•	•	0.66	3.05	1.02	0.07	•	•	•	•	•	•	•	•	4.80
12 - 14 sec	•	•	•	•	•	0.47	0.49	•	•	•	•	•	•	•	•	•	0.95
14 - 16 sec	•	•	•	•	•	0.39	0.50	•	•	•	•	•	•	•	•	•	0.89
18 - 20 sec	•	•	•	•	•	•	0.13	•	•	•	•	•	•	•	•	•	0.13
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.06	0.12	0.92	5.07	12.37	21.91	18.80	17.50	21.88	0.65	0.13	0.07	0.11	0.17	0.17	0.05	100.00

Orsted OCW02 Climatological Wind Rose for June: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.02	0.02	•	0.02	0.02	0.01	0.02	•	0.01	0.02	0.04	0.09	•	0.05	0.05	0.02	0.42
0 - 5 kts	0.58	0.48	0.44	0.58	0.71	0.71	0.61	0.91	0.88	0.94	1.00	0.98	0.98	1.00	0.82	0.76	12.37
5 - 10 kts	1.21	1.15	1.36	1.65	2.07	2.18	1.75	3.11	4.03	4.72	4.63	4.30	3.56	2.53	2.00	1.68	41.92
10 - 15 kts	0.99	0.87	1.38	1.84	1.26	0.83	0.64	2.00	4.22	6.14	5.45	2.51	1.81	1.36	1.48	1.30	34.08
15 - 20 kts	0.43	0.42	0.64	0.88	0.24	0.15	0.20	0.23	1.10	2.83	1.29	0.23	0.20	0.34	0.50	0.37	10.04
20 - 25 kts	0.05	0.06	0.13	0.15	•	0.05	0.02	0.04	0.10	0.33	0.06	0.01	0.02	0.04	0.02	0.04	1.13
25 - 30 kts	•	•	0.01	0.01	0.01	•	•	•	•	•	•	•	•	•	0.01	•	0.05
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	3.28	3.00	3.97	5.13	4.32	3.93	3.24	6.28	10.34	14.99	12.46	8.12	6.57	5.32	4.88	4.16	100.00