

West Coast Ocean Wind OCS-P0564 - July

Latitude: 33.50 N Longitude: 122.00 W

Weather Days

Wave Height > 6.0 ft Mean: 18.2 days Range: 14.7 - 21.7 days p50:23 days p75:22 days p90:19 days

Wave Height > 7.0 ft Mean: 13.6 days Range: 8.4 - 18.8 days p50:16 days p75:14 days p90:11.5 days

Wave Height > 8.0 ft Mean: 9.5 days Range: 4.0 - 14.9 days p50:10.5 days p75:7 days p90:4.5 days

Wind Speed > 10.0 knots Mean: 22.5 days Range: 19.1 - 25.9 days p50:23 days p75:21 days p90:18 days

Wind Speed > 15.0 knots Mean: 15.1 days Range: 10.4 - 19.7 days p50:15 days p75:12.5 days p90:9 days

Wind Speed > 20.0 knots Mean: 6.0 days Range: 2.1 - 9.8 days p50:5.5 days p75:4 days p90:2.5 days

Working Window

Wave Height < 6.0 ft
A 1 day or longer window will statistically occur 2.3 times per month
A 2 day or longer window will statistically occur 1.5 times per month
A 3 day or longer window will statistically occur 0.7 times per month

Wave Height < 7.0 ft
A 1 day or longer window will statistically occur 3.6 times per month
A 2 day or longer window will statistically occur 2.6 times per month
A 3 day or longer window will statistically occur 1.9 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 2.9 times per month
A 3 day or longer window will statistically occur 2.3 times per month

Waves

Mean Height: 6 - 8 ft

The wave heights will occasionally reach 12 - 14 ft, but rarely higher.

Mean Period: 8 - 10 sec

The wave periods will occasionally reach 22 - 24 sec, but rarely longer.

Principle Direction, from: NNW

WindSea/Swell: 26% / 74%

Winds

Mean Speed: 15 - 20 kts

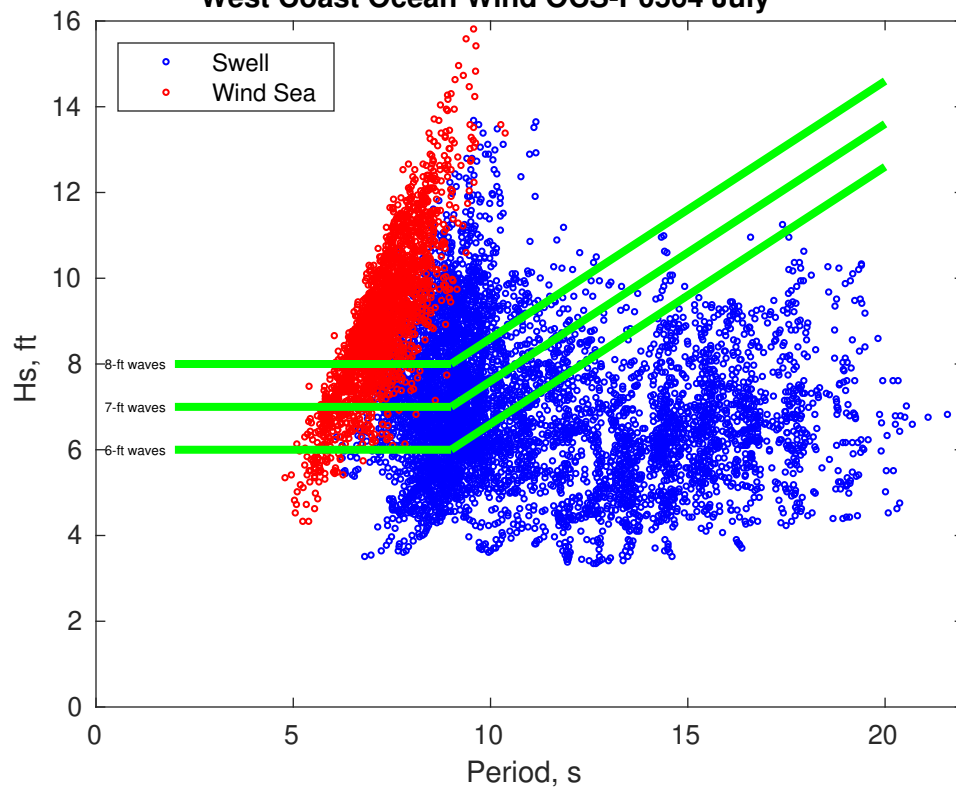
The winds will occasionally reach 25 - 30 kts, but rarely greater.

Principle Direction, from: NNW

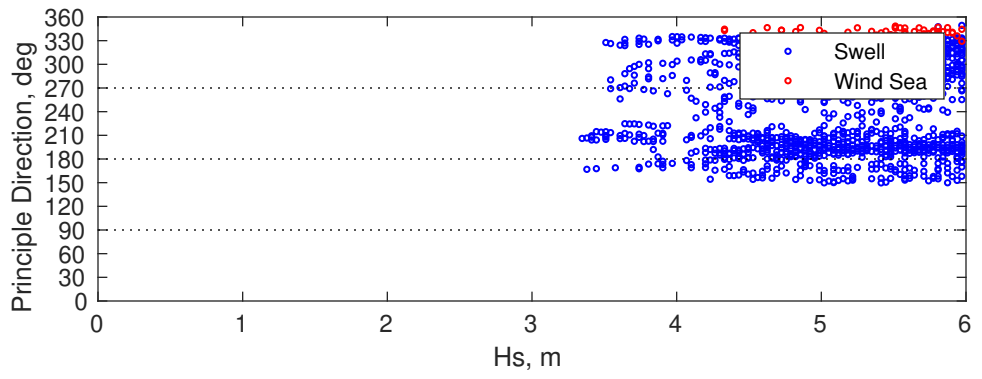
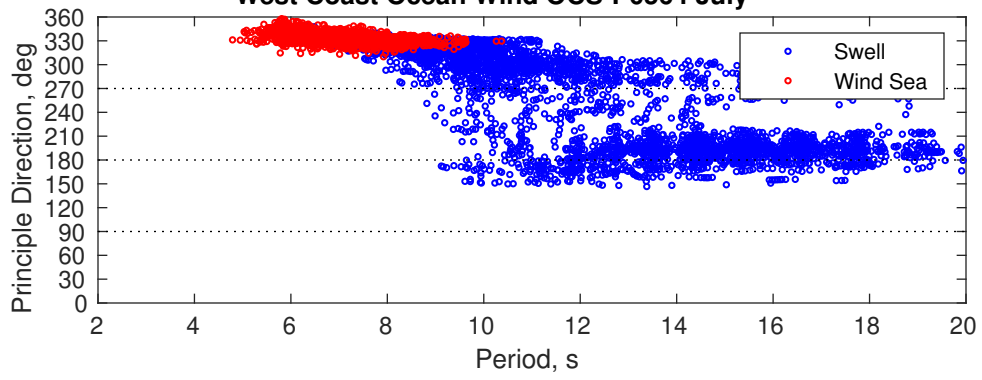
Severe Storms

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

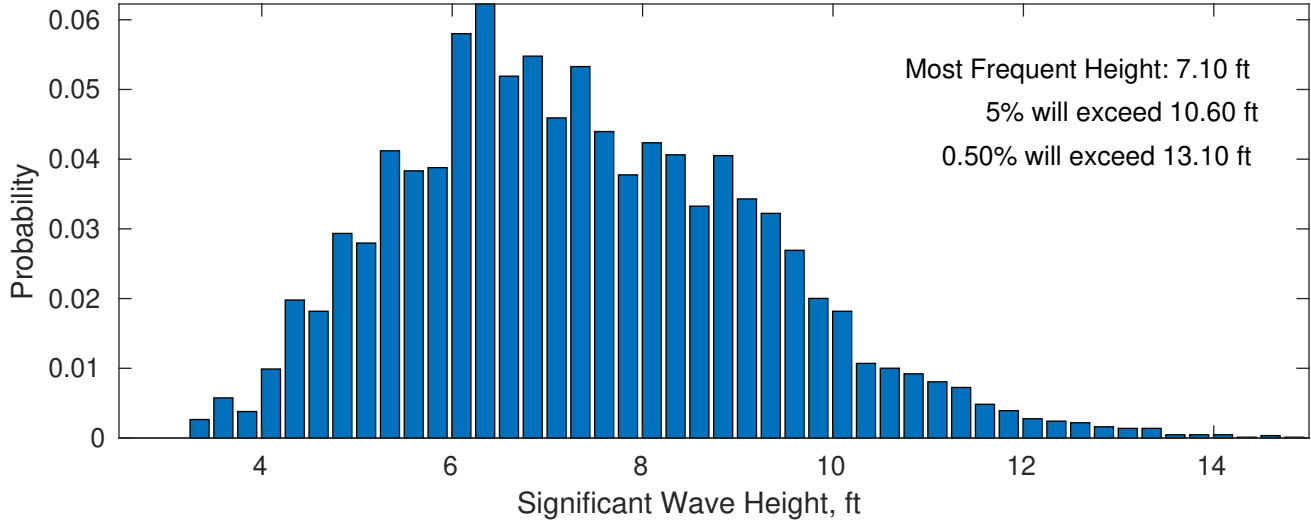
West Coast Ocean Wind OCS-P0564 July



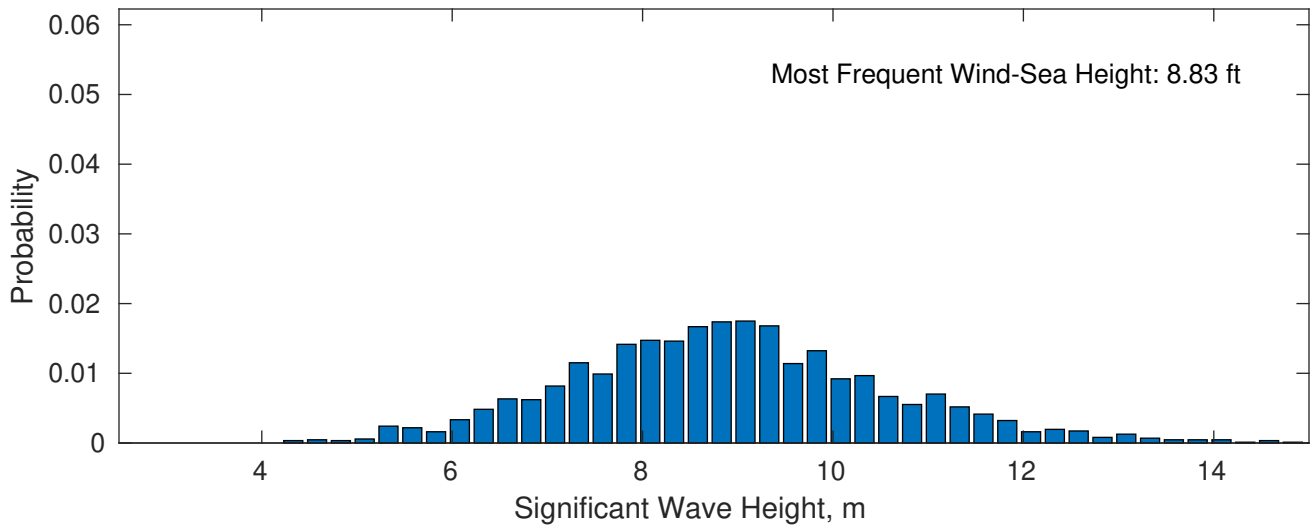
West Coast Ocean Wind OCS-P0564 July



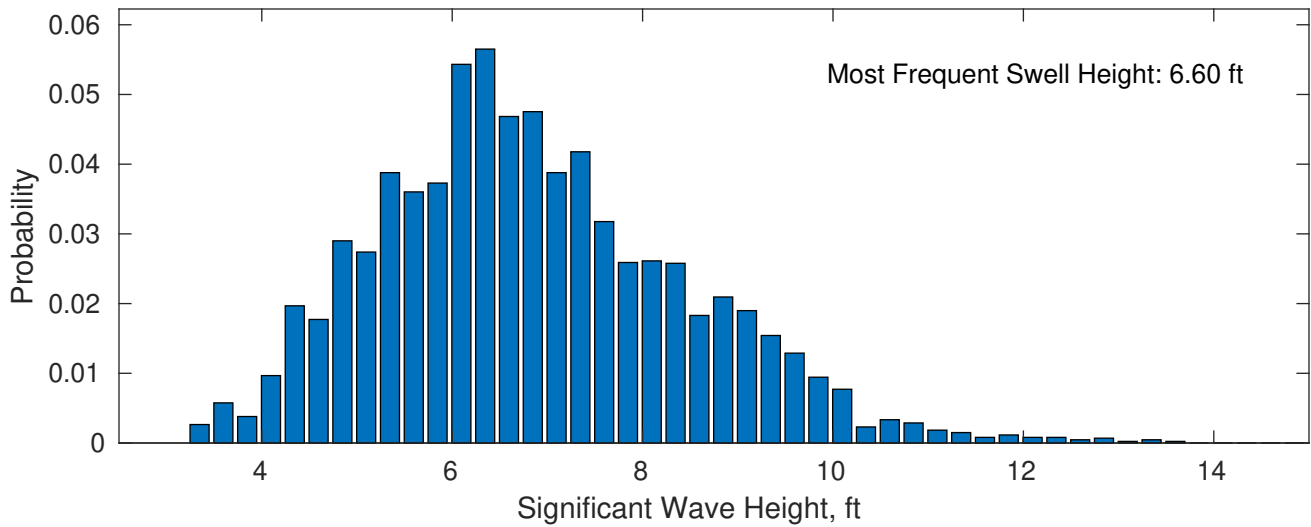
July Wave Height PDF: 1979 - 2015



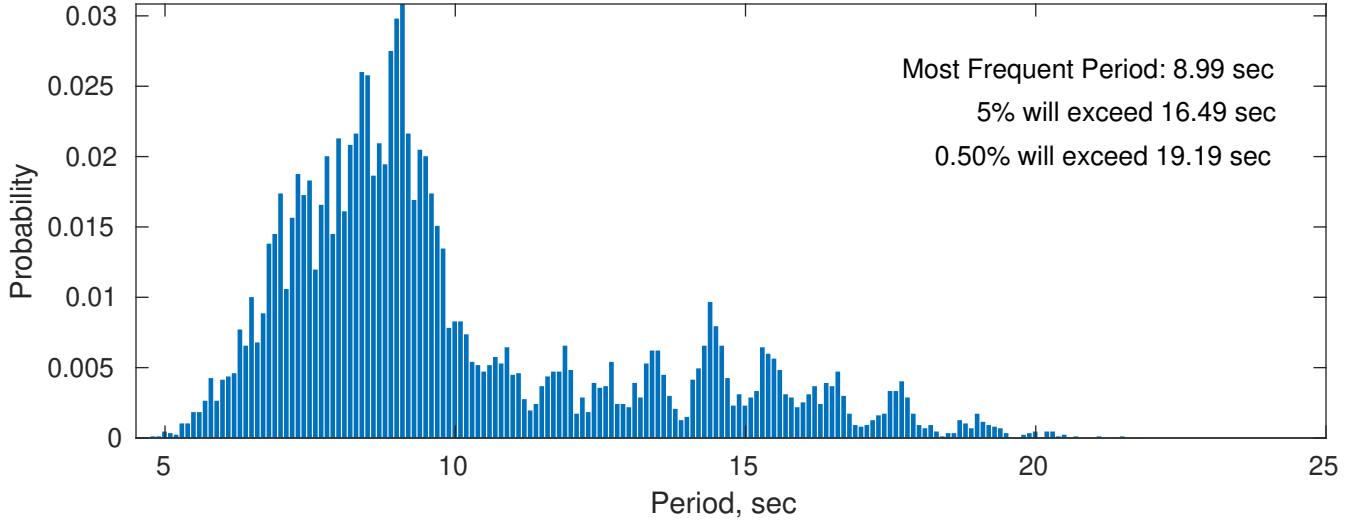
Wind-Sea: 25.57%



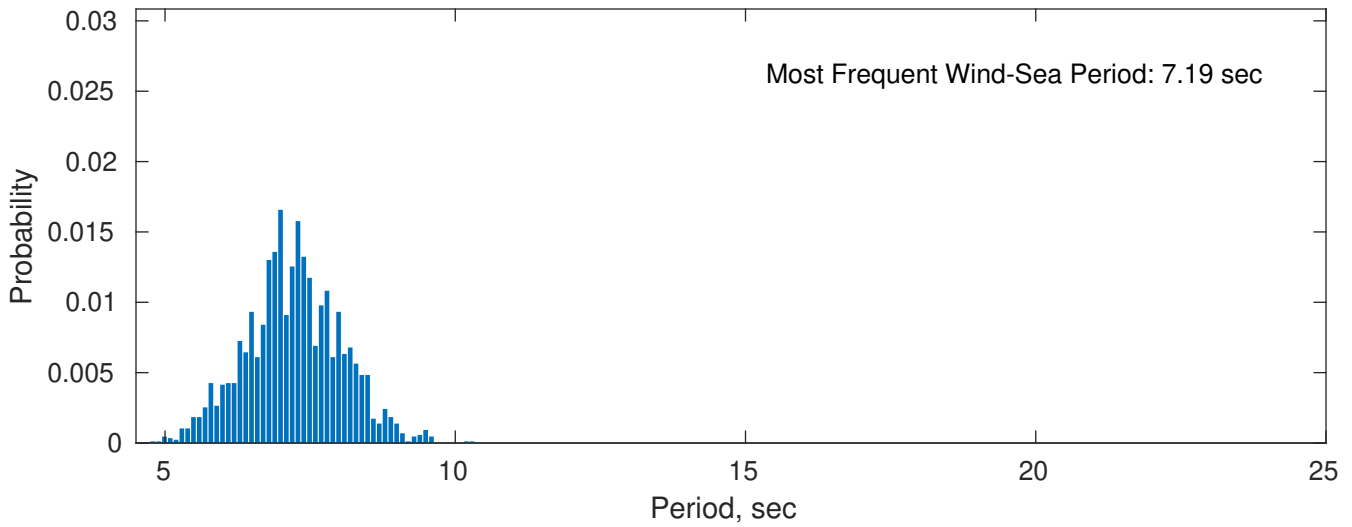
Swell: 74.43%



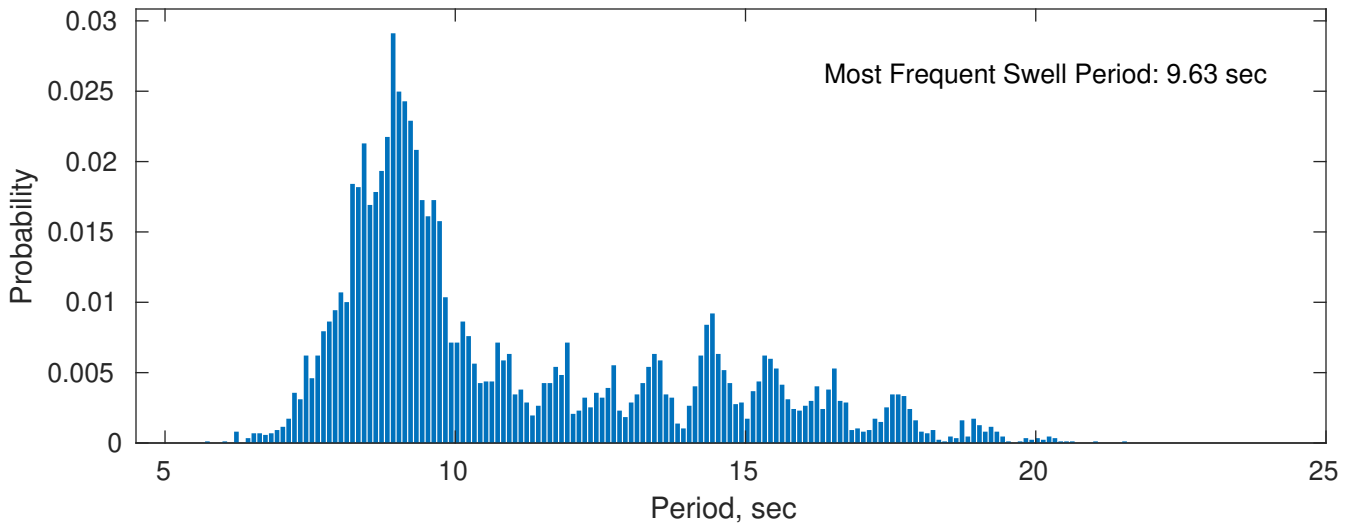
July Peak Wave Period PDF: 1979 - 2015



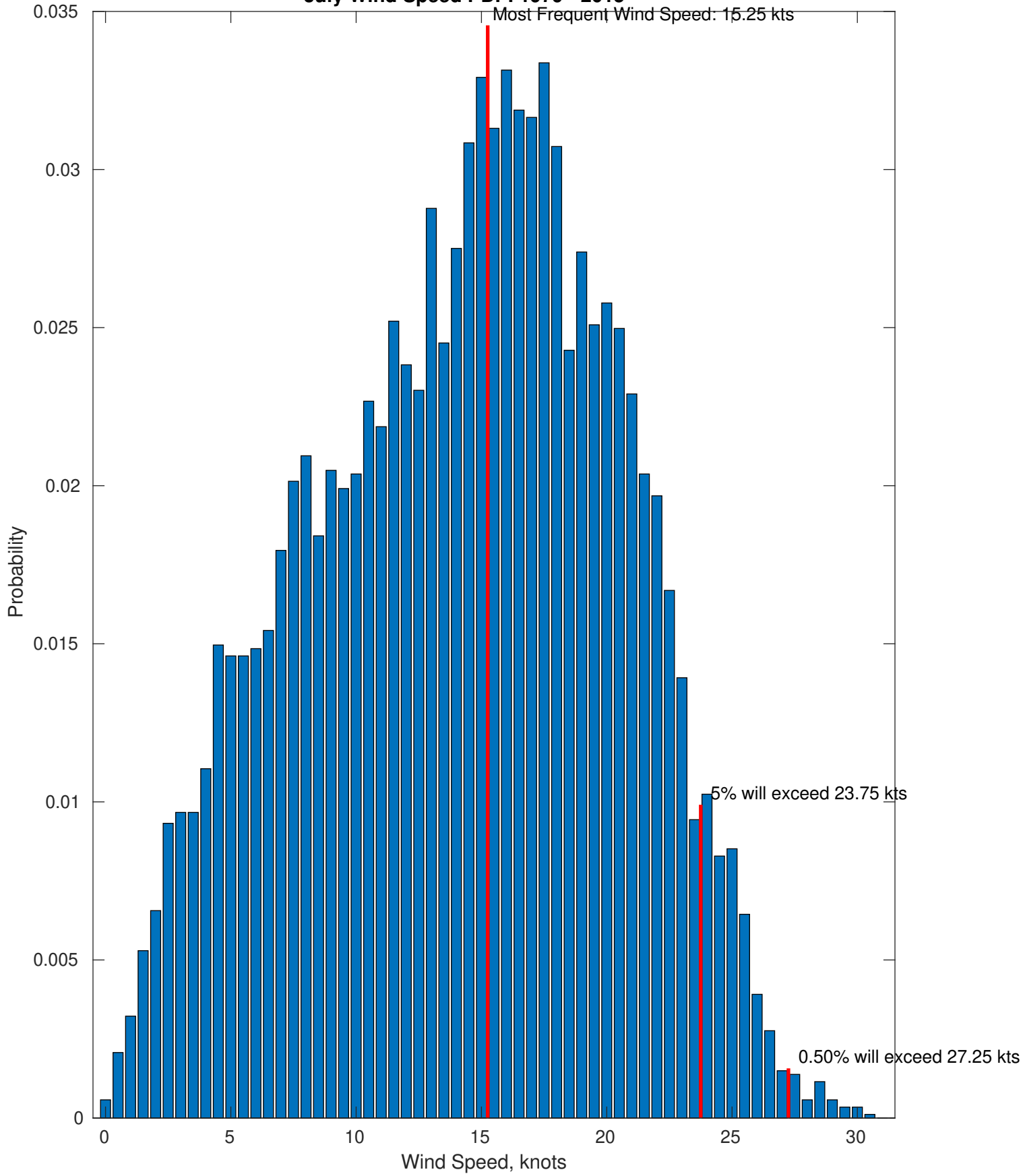
Wind-Sea: 25.57%



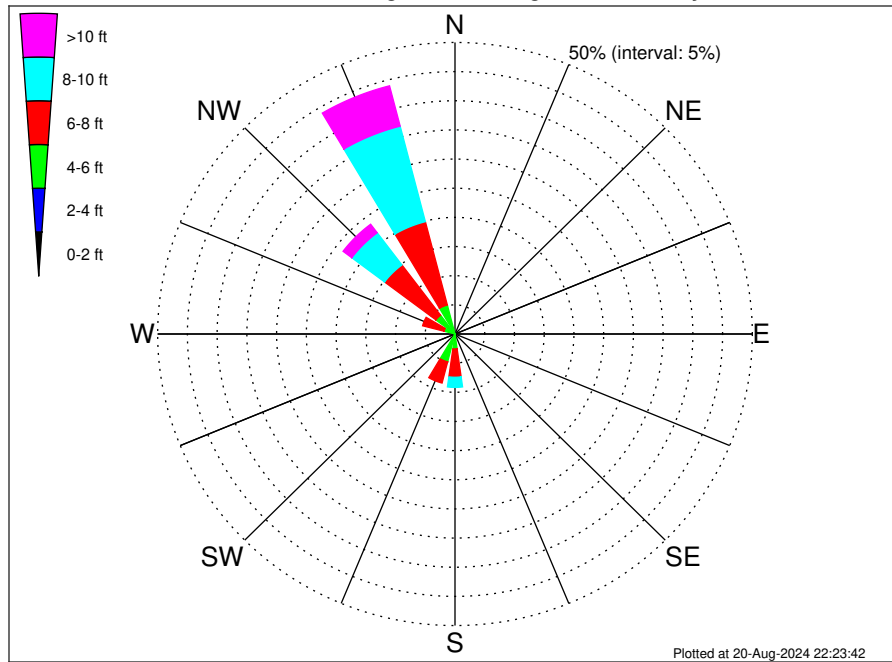
Swell: 74.43%



July Wind Speed PDF: 1979 - 2015



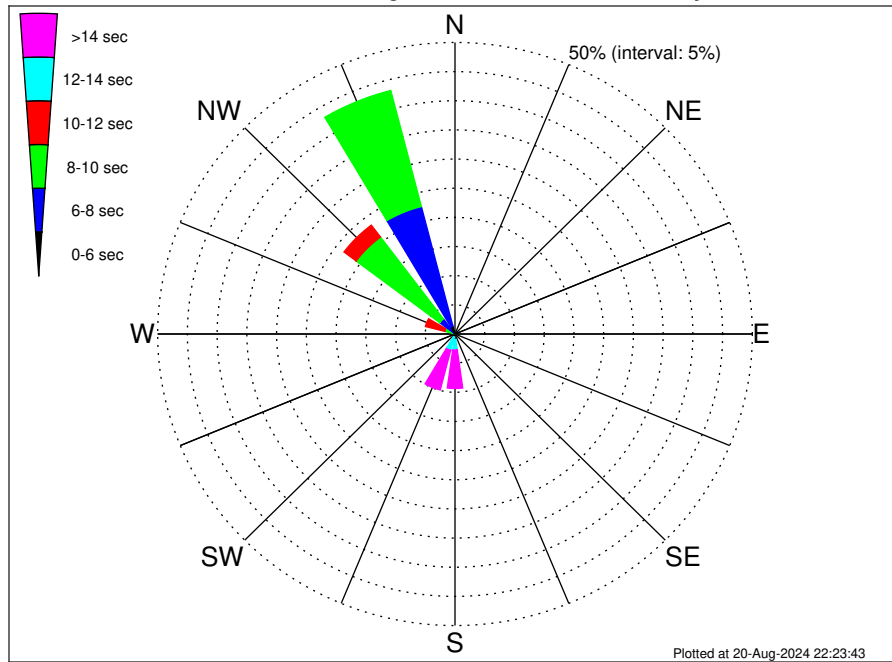
West Coast Ocean Wind OCS-P0564 Climatological WaveHeight Rose for July: 1979 - 2015



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	•	•	•	•	•	•	•	0.05	0.12	0.37	0.13	0.01	0.10	0.15	0.05	0.14	1.10
4 - 6 ft	0.01	•	•	•	•	•	•	0.99	2.45	4.57	0.44	0.69	0.92	1.76	3.98	4.99	20.81
6 - 8 ft	0.39	•	•	•	•	•	•	0.71	4.86	3.75	0.60	0.41	0.89	3.72	10.81	14.77	40.90
8 - 10 ft	0.01	•	•	•	•	•	•	0.16	1.74	1.13	0.03	0.06	0.12	0.81	6.91	16.92	27.87
10 - 12 ft	•	•	•	•	•	•	•	•	0.18	0.09	•	0.01	•	0.05	1.61	5.79	7.73
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.22	1.21	1.43
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.15	0.15
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	0.41	•	•	•	•	•	•	1.91	9.35	9.91	1.20	1.19	2.03	6.48	23.57	43.96	100.00

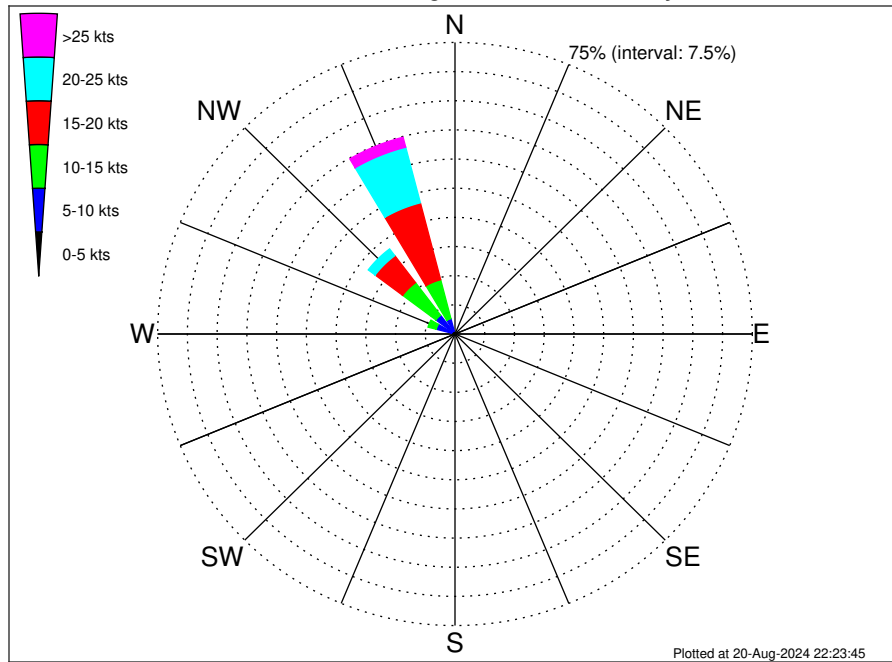
West Coast Ocean Wind OCS-P0564 Climatological WavePeriod Rose for July: 1979 - 2015



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	0.25	•	•	•	•	•	•	•	•	•	•	•	•	•	0.07	1.39	1.71
6 - 8 sec	0.16	•	•	•	•	•	•	•	•	•	•	•	•	0.01	3.15	21.19	24.51
8 - 10 sec	•	•	•	•	•	•	•	0.12	0.14	0.03	0.14	0.14	0.41	1.78	17.60	20.55	40.91
10 - 12 sec	•	•	•	•	•	•	•	0.66	0.86	0.53	0.31	0.32	0.83	3.35	2.55	0.83	10.24
12 - 14 sec	•	•	•	•	•	•	•	0.62	1.75	2.32	0.24	0.39	0.47	0.94	0.17	•	6.92
14 - 16 sec	•	•	•	•	•	•	•	0.26	3.44	4.21	0.36	0.24	0.20	0.38	0.02	•	9.11
18 - 20 sec	•	•	•	•	•	•	•	0.22	2.35	2.28	0.08	0.03	0.12	0.01	•	•	5.09
22 - 24 sec	•	•	•	•	•	•	•	0.03	0.81	0.53	0.07	0.06	•	•	•	•	1.50
Total	0.41	•	•	•	•	•	•	1.91	9.35	9.91	1.20	1.19	2.03	6.48	23.57	43.96	100.00

West Coast Ocean Wind OCS-P0564 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	0.01	0.02	0.01	0.01	0.03	0.01	•	0.03	•	0.02	0.02	•	0.05	0.02	•	0.01	0.26
0 - 5 kts	0.39	0.33	0.12	0.21	0.08	0.20	0.20	0.35	0.39	0.40	0.39	0.59	0.78	0.89	0.90	0.77	6.97
5 - 10 kts	0.97	0.40	0.15	0.03	0.02	0.15	0.16	0.23	0.18	0.21	0.30	0.67	1.86	3.97	5.13	3.29	17.74
10 - 15 kts	1.40	0.07	0.02	•	•	•	0.01	0.01	•	•	0.01	0.05	0.26	2.15	10.52	10.35	24.86
15 - 20 kts	0.90	•	•	•	•	•	•	•	•	•	•	•	•	0.16	8.68	20.44	30.18
20 - 25 kts	0.26	•	•	•	•	•	•	•	•	•	•	•	•	0.01	2.18	14.78	17.23
25 - 30 kts	0.03	•	•	•	•	•	•	•	•	•	•	•	•	•	0.08	2.60	2.72
30 - 35 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.05	0.05
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	3.97	0.83	0.30	0.25	0.14	0.36	0.37	0.62	0.58	0.63	0.73	1.30	2.96	7.20	27.48	52.28	100.00