

## West Coast Ocean Wind OCS-P0564 - June

Latitude: 33.50 N Longitude: 122.00 W

### Weather Days

Wave Height > 6.0 ft Mean: 21.4 days Range: 17.7 - 25.1 days p50:25.5 days p75:23.5 days p90:20 days

Wave Height > 7.0 ft Mean: 18.5 days Range: 13.8 - 23.1 days p50:21.5 days p75:18 days p90:13 days

Wave Height > 8.0 ft Mean: 14.8 days Range: 10.3 - 19.2 days p50:17.5 days p75:14 days p90:10 days

Wind Speed > 10.0 knots Mean: 24.4 days Range: 21.1 - 27.8 days p50:26 days p75:22.5 days p90:21 days

Wind Speed > 15.0 knots Mean: 18.5 days Range: 13.7 - 23.3 days p50:19.5 days p75:15 days p90:11.5 days

Wind Speed > 20.0 knots Mean: 10.3 days Range: 6.1 - 14.5 days p50:10.5 days p75:7.5 days p90:5 days

### Working Window

Wave Height < 6.0 ft  
A 1 day or longer window will statistically occur 1.6 times per month  
A 2 day or longer window will statistically occur 0.6 times per month  
A 3 day or longer window will statistically occur 0.4 times per month

Wave Height < 7.0 ft  
A 1 day or longer window will statistically occur 2.6 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 0.9 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 2.3 times per month  
A 3 day or longer window will statistically occur 1.5 times per month

### Waves

Mean Height: 8 - 10 ft

The wave heights will occasionally reach 14 - 16 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: 32% / 68%

### Winds

Mean Speed: 15 - 20 kts

The winds will occasionally reach 30 - 35 kts, but rarely greater.

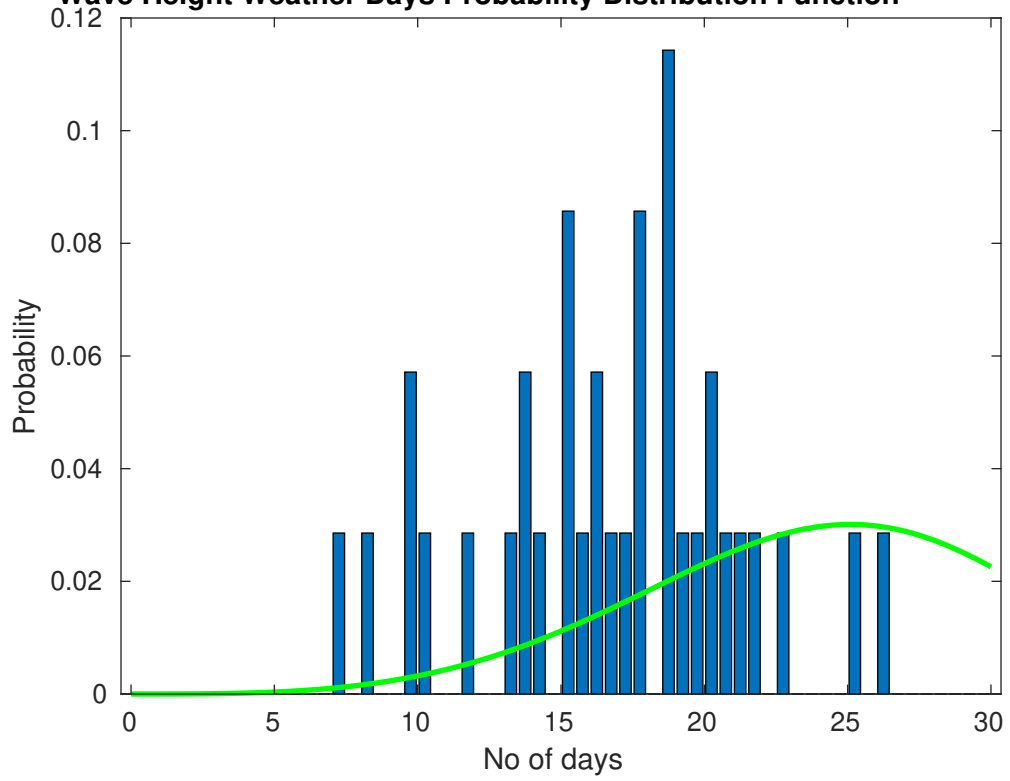
Principle Direction, from: NNW

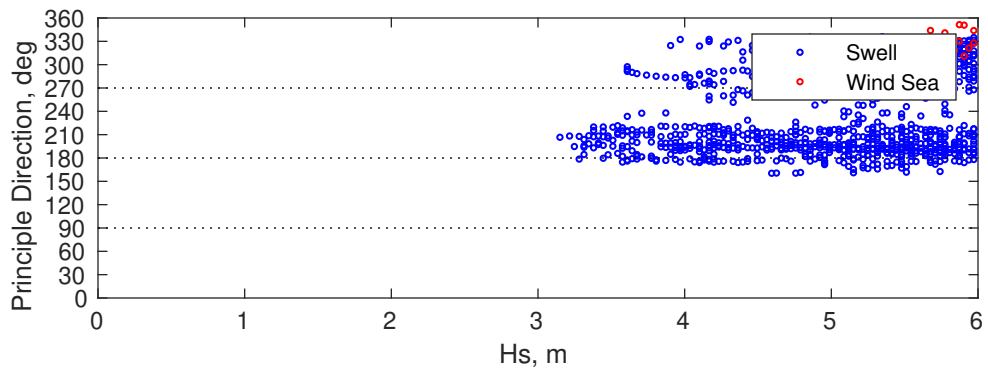
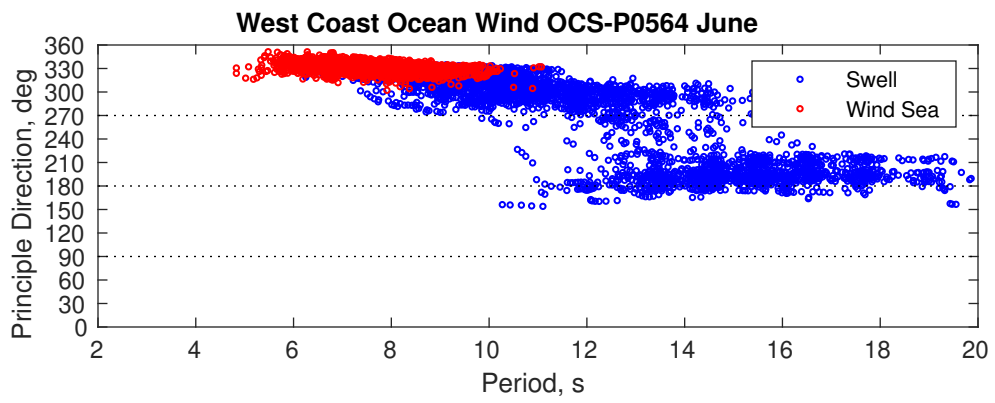
### Severe Storms

There is a 3% chance of a storm occurring in the month with winds peaking above 34 kts.

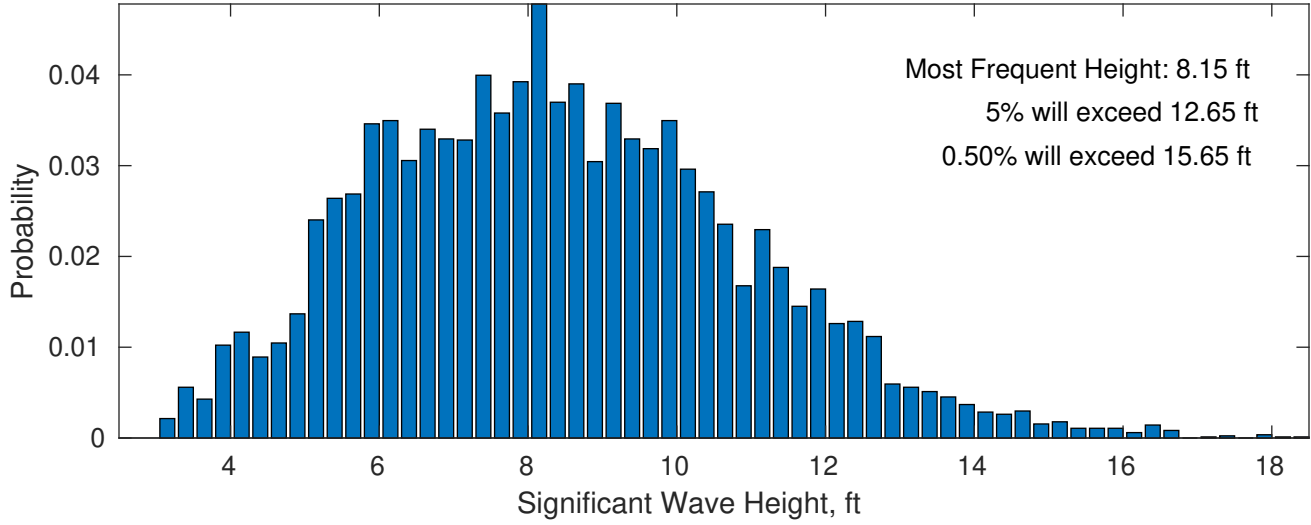
There is little chance of a storm occurring in the month with waves peaking at 4m (13 ft) or greater.

**Wave Height Weather Days Probability Distribution Function**

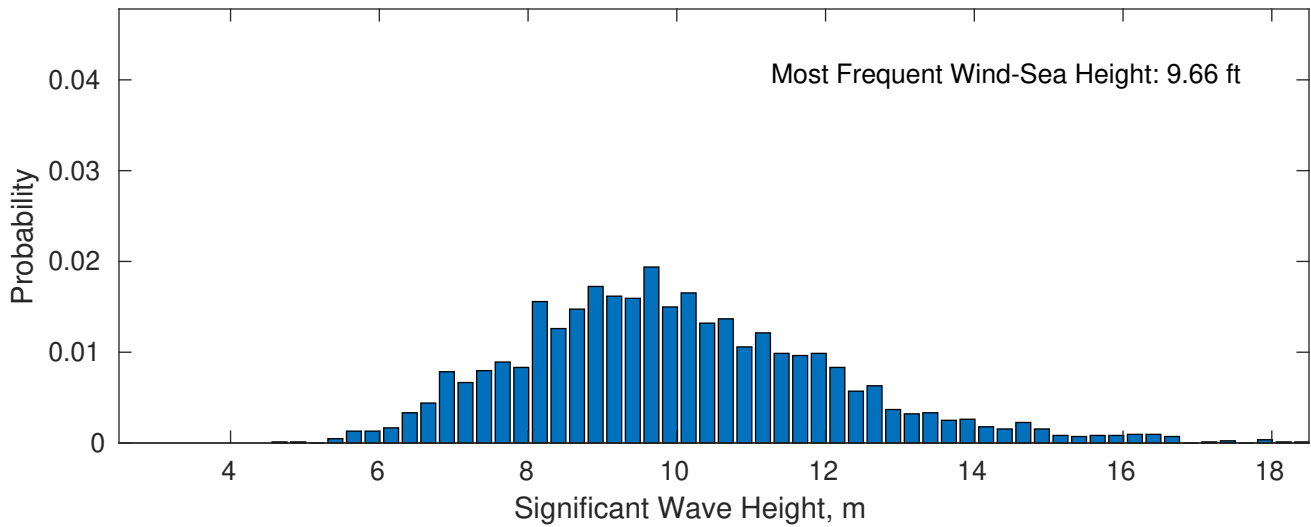




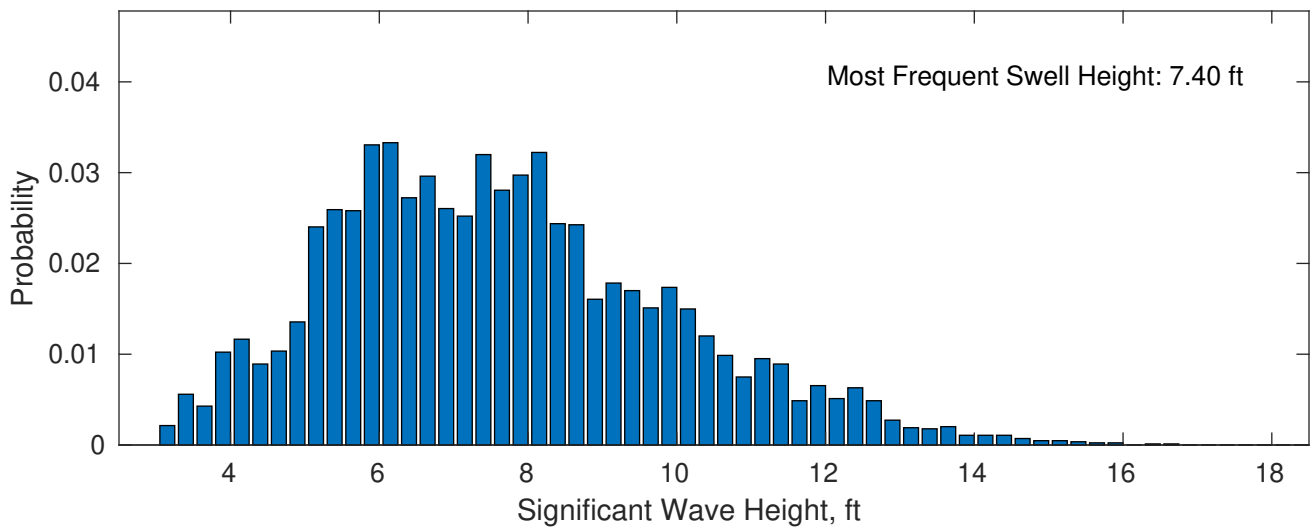
**June Wave Height PDF: 1979 - 2015**



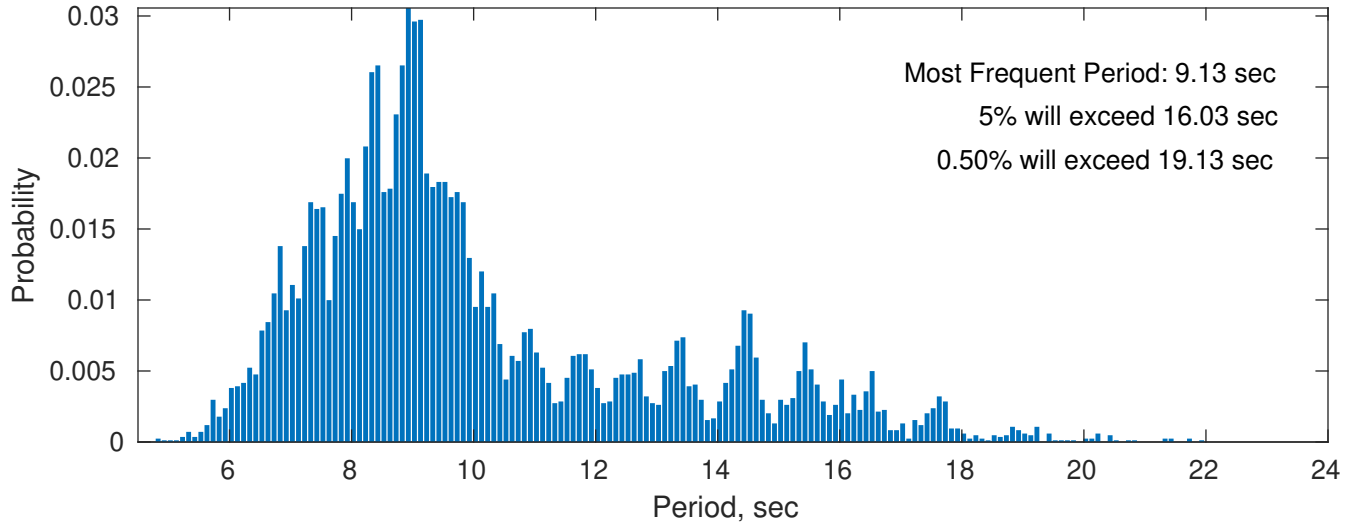
**Wind-Sea: 32.42%**



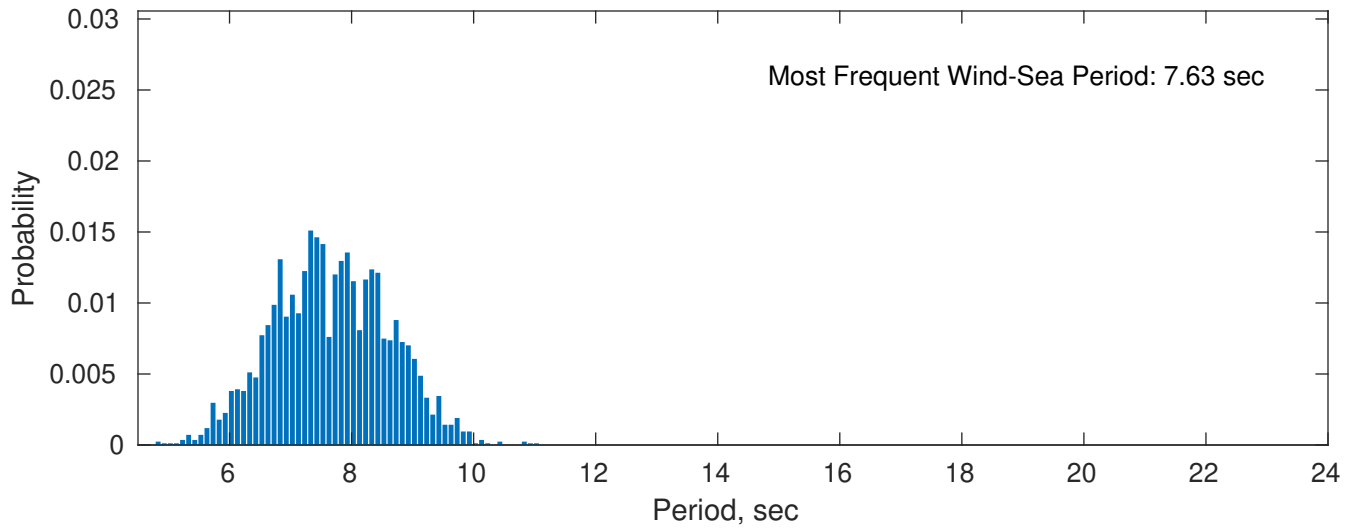
**Swell: 67.58%**



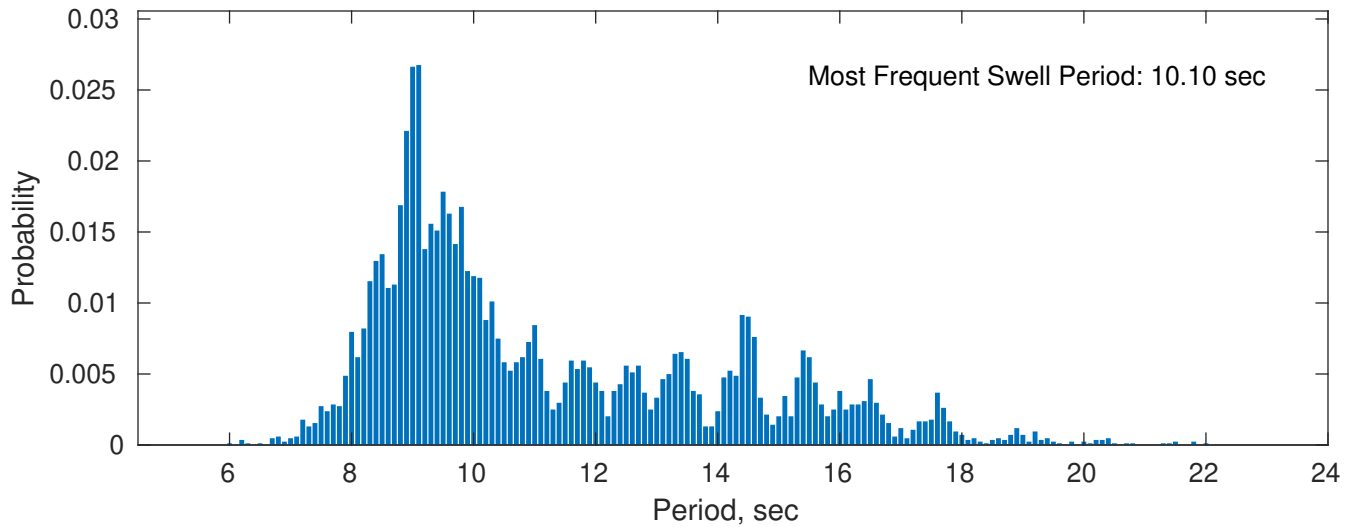
**June Peak Wave Period PDF: 1979 - 2015**



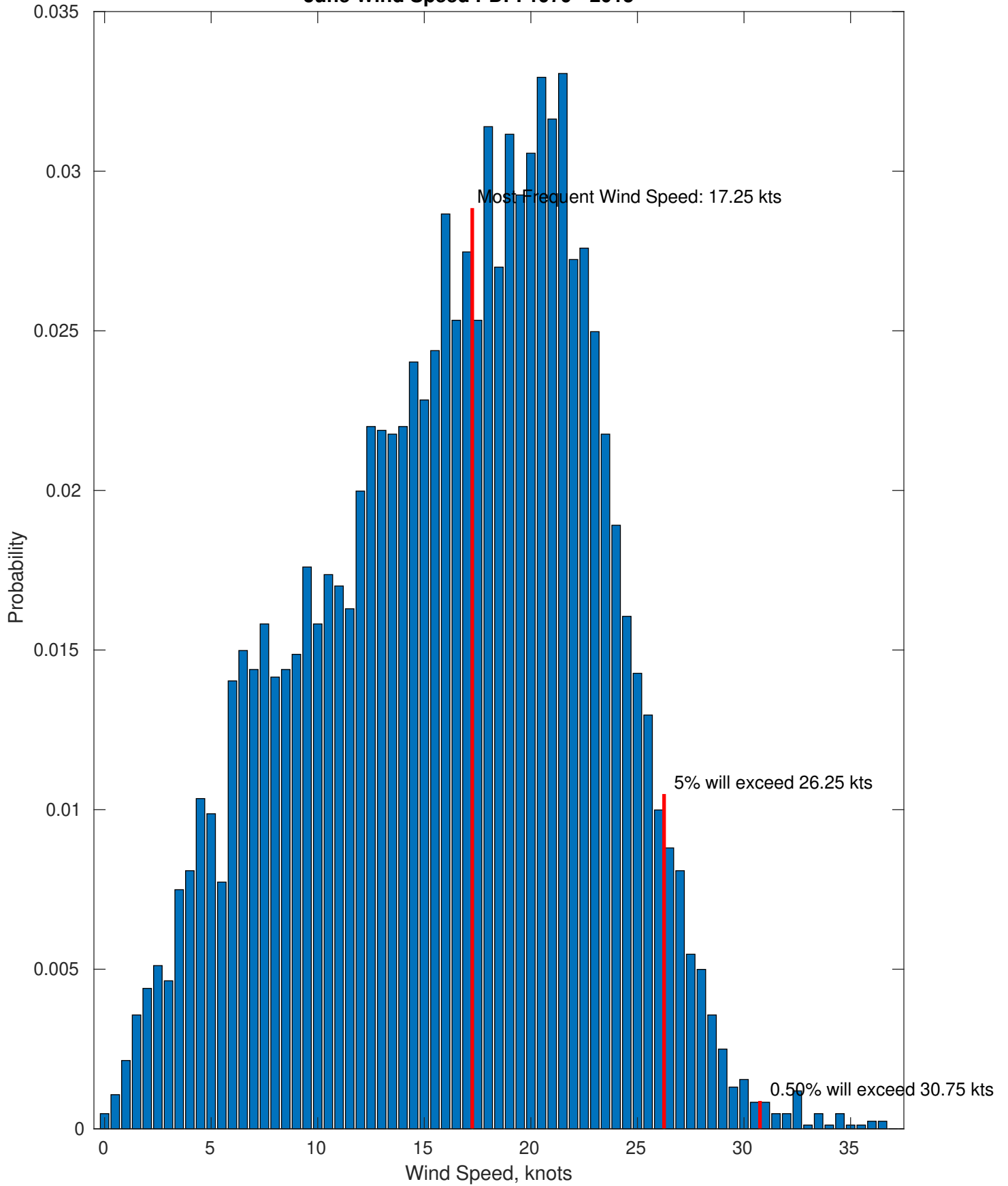
**Wind-Sea: 32.42%**



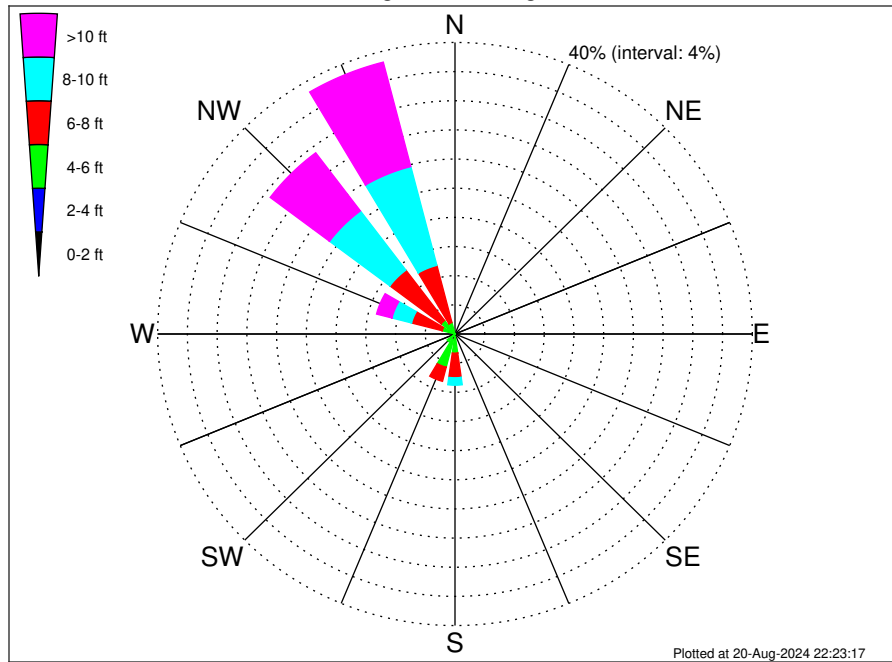
**Swell: 67.58%**



June Wind Speed PDF: 1979 - 2015



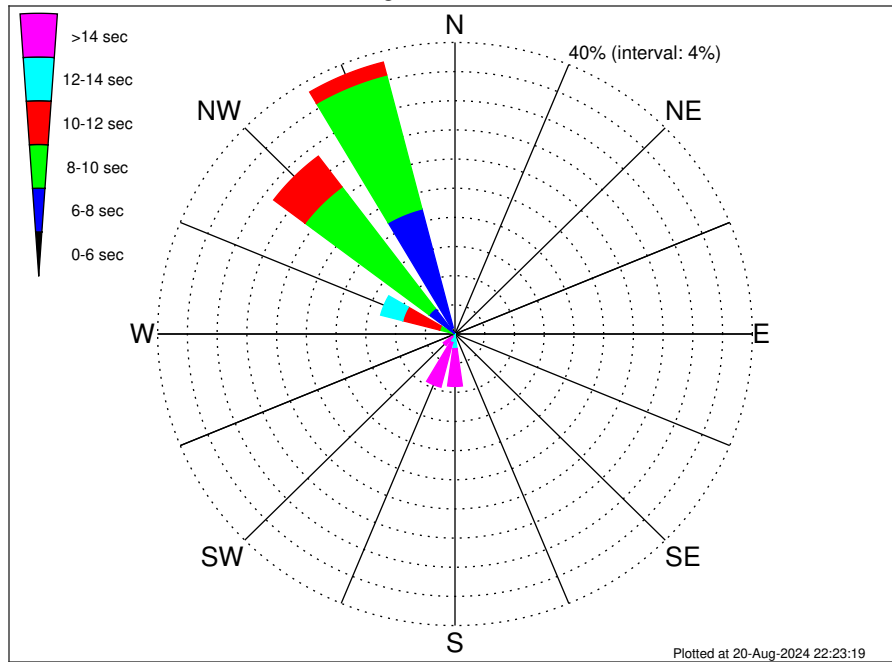
West Coast Ocean Wind OCS-P0564 Climatological WaveHeight Rose for June: 1979 - 2015



Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 ft	•	•	•	•	•	•	•	•	0.34	0.87	0.21	0.02	•	0.11	0.01	0.01	1.58
4 - 6 ft	0.02	•	•	•	•	•	•	0.15	2.28	3.84	1.12	0.23	0.83	1.68	2.31	1.61	14.07
6 - 8 ft	0.01	•	•	•	•	•	•	0.12	3.38	2.00	0.49	0.18	0.57	4.26	8.66	8.11	27.77
8 - 10 ft	0.05	•	•	•	•	•	•	0.01	1.02	0.80	0.12	0.15	0.31	2.72	10.17	14.00	29.35
10 - 12 ft	•	•	•	•	•	•	•	•	0.17	0.04	0.04	•	0.06	1.40	6.89	9.67	18.25
12 - 14 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	0.73	2.46	3.66	6.85
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	0.01	0.55	1.13	1.69
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.10	0.29	0.38
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.06	0.06
Total	0.08	•	•	•	•	•	•	0.29	7.19	7.54	1.97	0.58	1.77	10.90	31.13	38.53	100.00

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

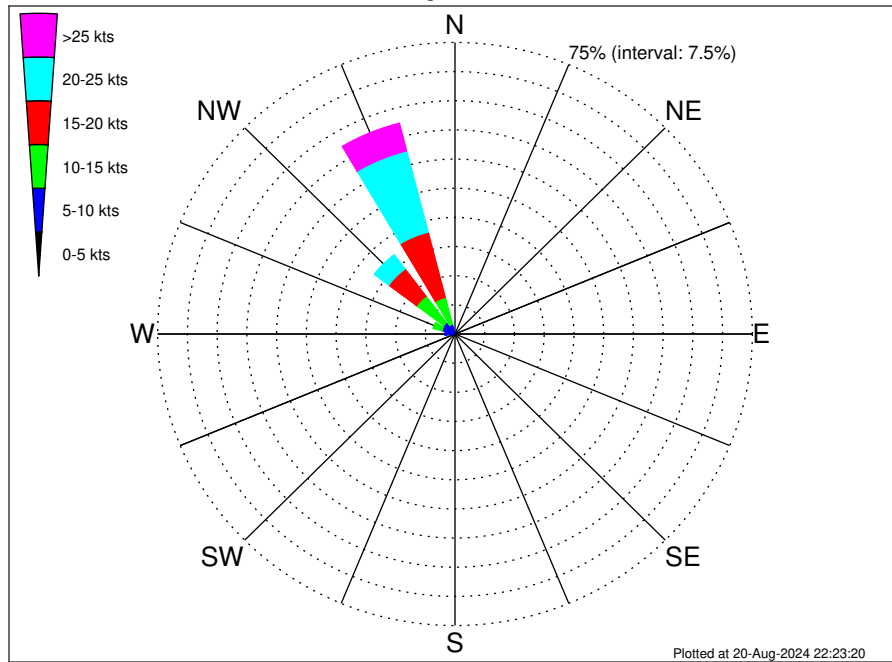


Joint Frequency Distribution Table

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2 - 4 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4 - 6 sec	0.04	•	•	•	•	•	•	•	•	•	•	•	•	•	0.14	0.89	1.07
6 - 8 sec	0.05	•	•	•	•	•	•	•	•	•	•	•	•	0.13	4.26	16.84	21.27
8 - 10 sec	•	•	•	•	•	•	•	•	•	•	•	•	0.19	2.01	20.87	18.98	42.05
10 - 12 sec	•	•	•	•	•	•	0.06	0.25	0.04	0.05	0.05	0.51	5.14	5.28	1.82	13.19	
12 - 14 sec	•	•	•	•	•	•	0.13	1.77	1.18	0.44	0.36	0.87	3.06	0.48	•	8.28	
14 - 16 sec	•	•	•	•	•	•	0.02	3.22	3.79	0.61	0.18	0.20	0.54	0.11	•	8.67	
18 - 20 sec	•	•	•	•	•	•	0.04	1.50	2.06	0.74	•	•	0.04	•	•	4.36	
22 - 24 sec	•	•	•	•	•	•	0.04	0.45	0.48	0.14	•	•	•	•	•	1.11	
Total	0.08	•	•	•	•	•	0.29	7.19	7.54	1.97	0.58	1.77	10.90	31.13	38.53	100.00	



West Coast Ocean Wind OCS-P0564 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	0.01	•	0.01	0.01	•	•	0.01	0.01	0.02	•	0.01	0.01	0.02	•	0.02	•	0.15
0 - 5 kts	0.34	0.21	0.13	0.12	0.20	0.08	0.13	0.15	0.13	0.29	0.31	0.45	0.58	0.67	0.39	0.38	4.58
5 - 10 kts	0.83	0.23	0.08	0.07	0.02	0.10	0.13	0.18	0.25	0.25	0.50	1.07	1.93	2.75	3.20	2.20	13.78
10 - 15 kts	0.81	0.07	0.01	•	•	•	•	0.01	0.05	0.05	0.08	0.10	0.65	2.28	8.55	7.15	19.81
15 - 20 kts	0.75	0.01	•	•	•	•	•	•	0.05	•	0.01	•	0.01	0.31	8.80	17.34	27.28
20 - 25 kts	0.31	•	•	•	•	•	•	•	0.01	•	•	•	•	0.01	4.53	21.61	26.47
25 - 30 kts	0.11	•	•	•	•	•	•	•	•	•	•	•	•	•	0.44	6.65	7.19
30 - 35 kts	0.04	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.62	0.65
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.07	0.07
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	3.20	0.52	0.24	0.20	0.23	0.18	0.27	0.36	0.51	0.58	0.92	1.63	3.20	6.02	25.94	56.01	100.00