

# UK Cable Route GT - Middlesborough - June

Latitude: 54.60 N Longitude: 0.81 E

## Weather Days

Wave Height > 6.0 ft Mean: 3.3 days Range: 1.4 - 5.2 days p50:3 days p75:1.5 days p90:1 days

Wave Height > 7.0 ft Mean: 1.8 days Range: 0.4 - 3.2 days p50:2 days p75:1 days p90:0.5 days

Wave Height > 8.0 ft Mean: 1.1 days Range: 0.0 - 2.3 days p50:2 days p75:1 days p90:1 days

Wind Speed > 15.0 knots Mean: 10.5 days Range: 7.4 - 13.7 days p50:10.5 days p75:8.5 days p90:7 days

Wind Speed > 20.0 knots Mean: 3.3 days Range: 1.5 - 5.0 days p50:3.5 days p75:2.5 days p90:1.5 days

Wind Speed > 25.0 knots Mean: 0.8 days Range: 0.1 - 1.5 days p50:1 days p75:0.5 days p90:0.5 days

## Working Window

Wave Height < 6.0 ft  
A 1 day or longer window will statistically occur 3.4 times per month  
A 2 day or longer window will statistically occur 2.7 times per month  
A 3 day or longer window will statistically occur 2.3 times per month

Wave Height < 7.0 ft  
A 1 day or longer window will statistically occur 2.4 times per month  
A 2 day or longer window will statistically occur 2.1 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 1.9 times per month  
A 2 day or longer window will statistically occur 1.7 times per month  
A 3 day or longer window will statistically occur 1.6 times per month

## Waves

Mean Height: 2 - 4 ft

The wave heights will occasionally reach 10 - 12 ft, but rarely higher.

Mean Period: 4 - 6 sec

The wave periods will occasionally reach 8 - 10 sec, but rarely longer.

Principle Direction, from: N

WindSea/Swell: 39% / 61%

## Winds

Mean Speed: 10 - 15 kts

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

Principle Direction, from: SSW

## Currents

Mean Speed: 0.01-0.25 kts

The currents will occasionally reach 0.75-1.00 kts, but rarely greater.

Principle Direction, to: ENE

## Weather Days

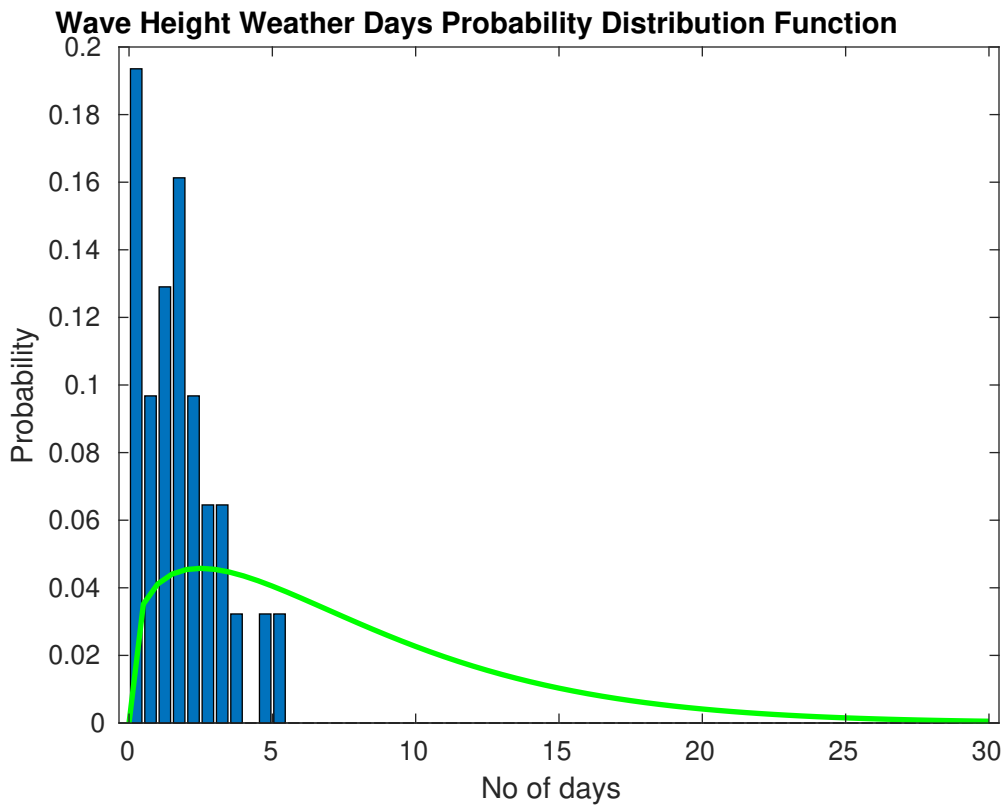
Current Speed > 1.0 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 days p75:1 days p90:1 days

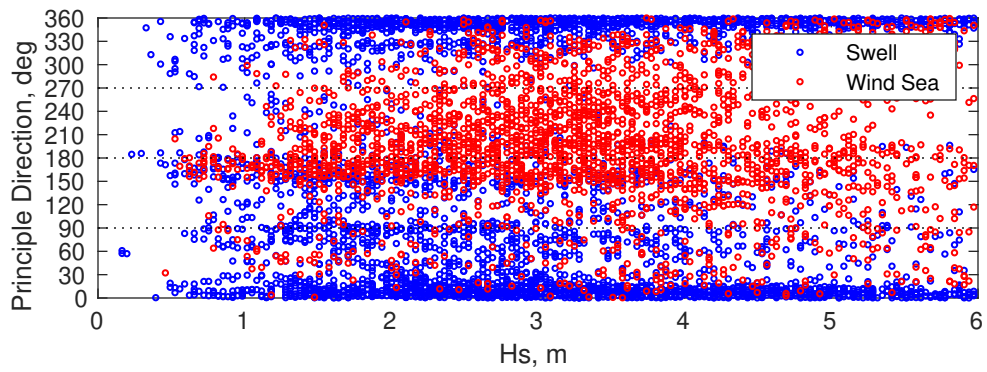
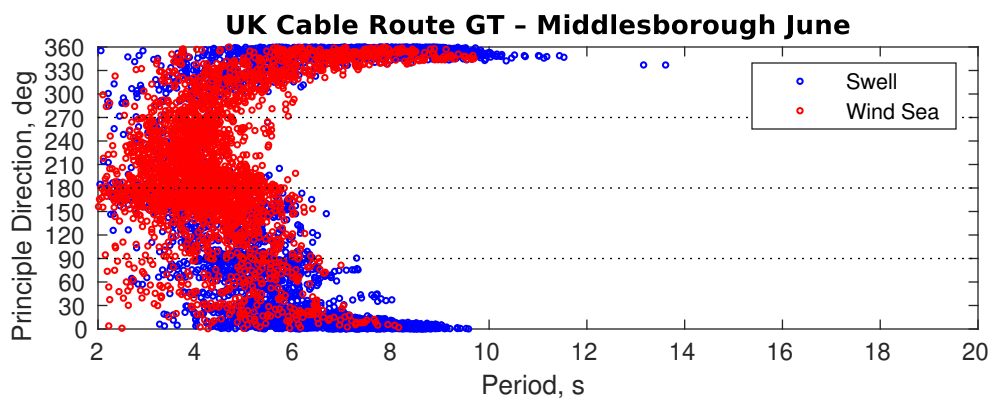
Current Speed > 1.5 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 days p75:1 days p90:1 days

Current Speed > 2.0 knots Mean: 0.0 days Range: 0.0 - 0.0 days p50:1 days p75:1 days p90:1 days

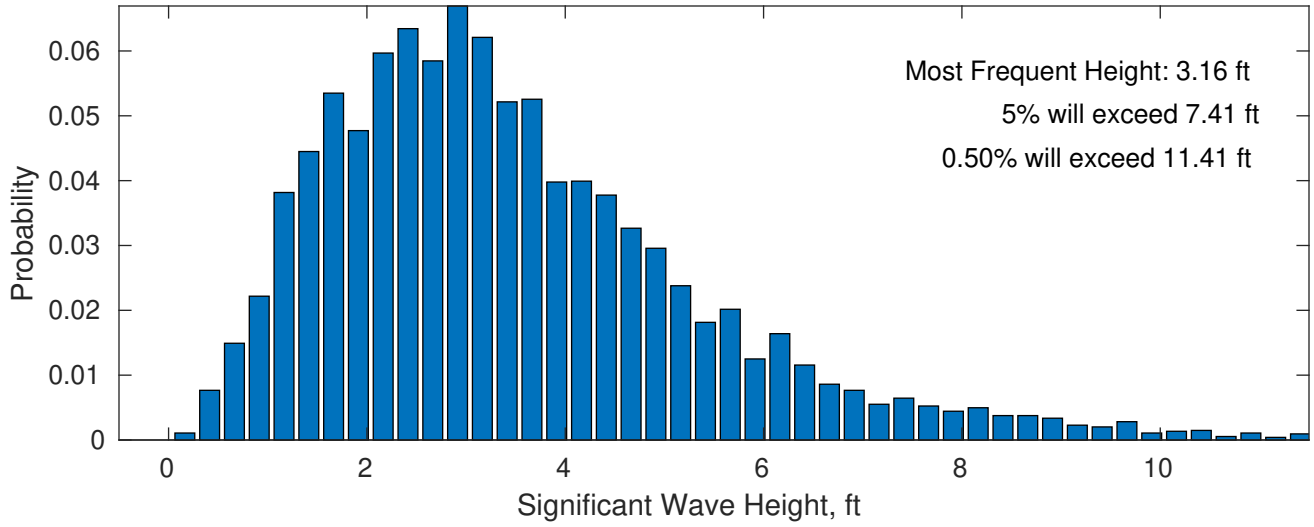
## Severe Storms

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

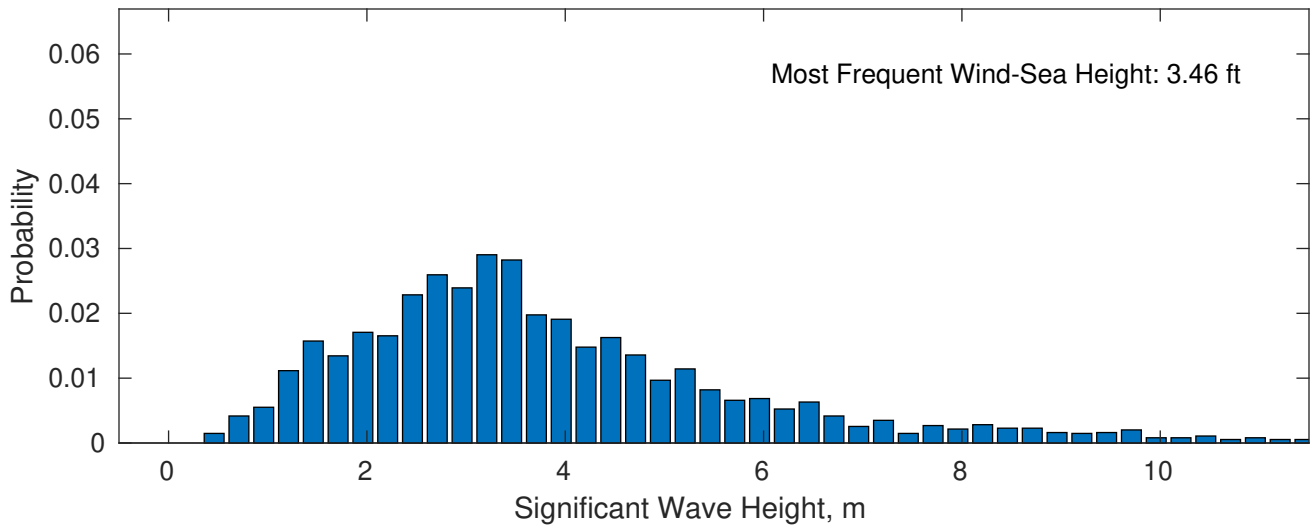




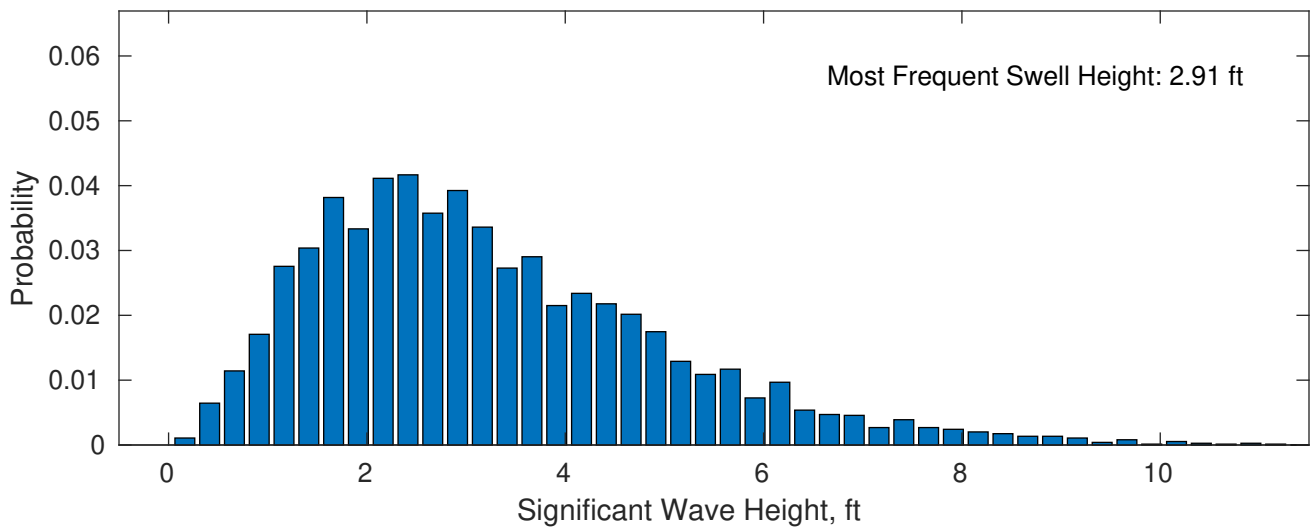
**June Wave Height PDF: 1979 - 2015**



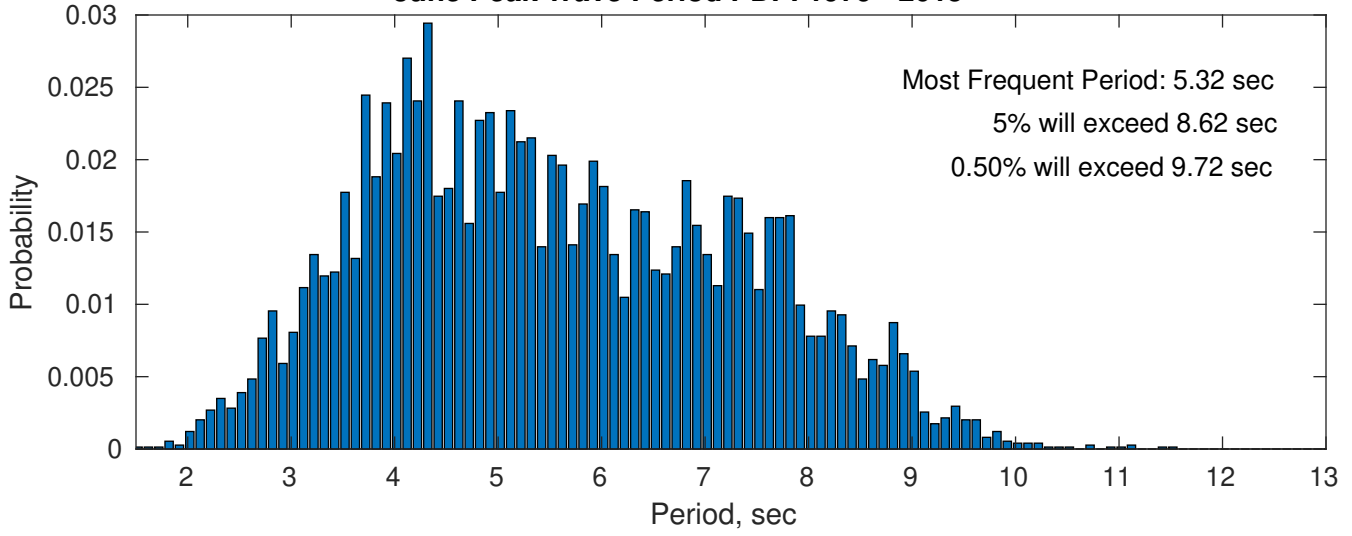
**Wind-Sea: 39.33%**



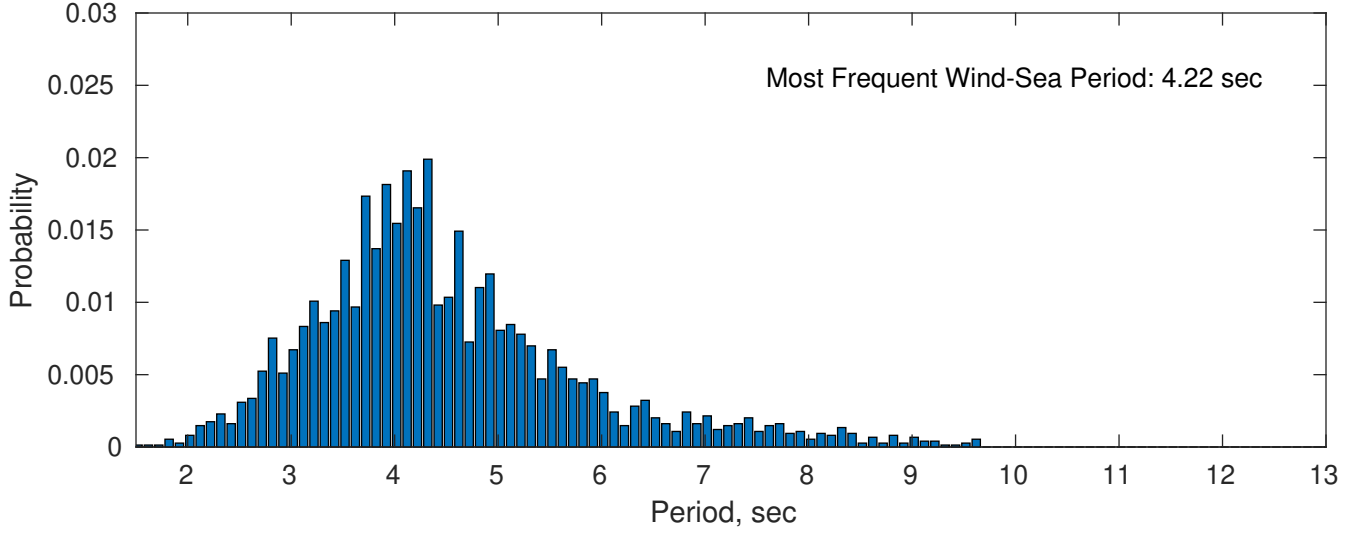
**Swell: 60.67%**



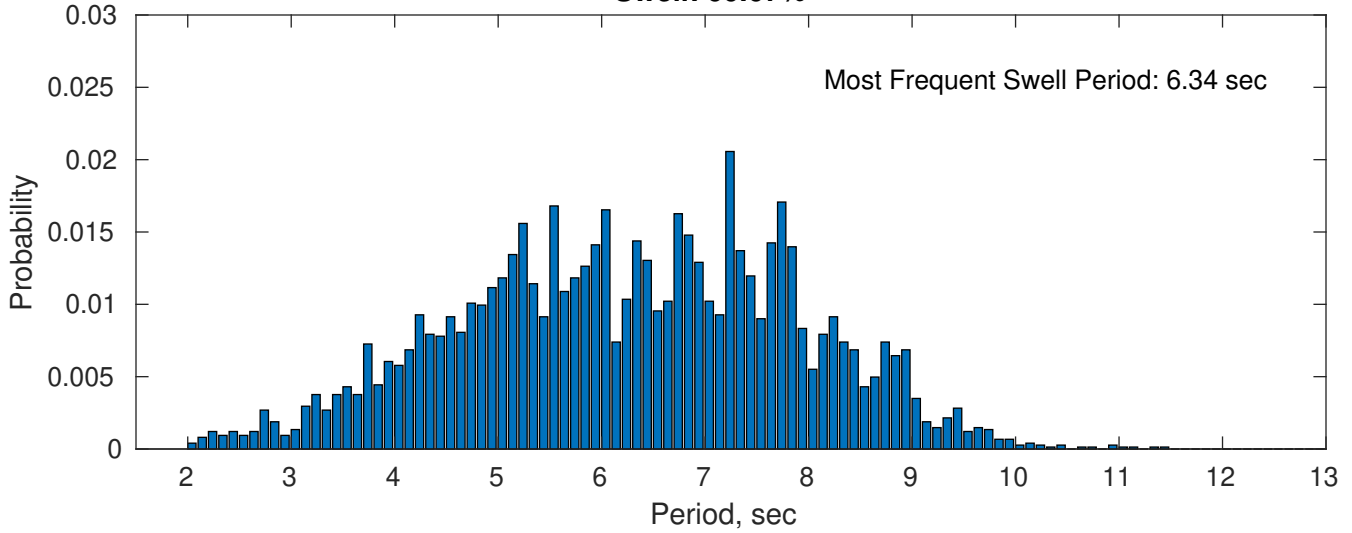
**June Peak Wave Period PDF: 1979 - 2015**



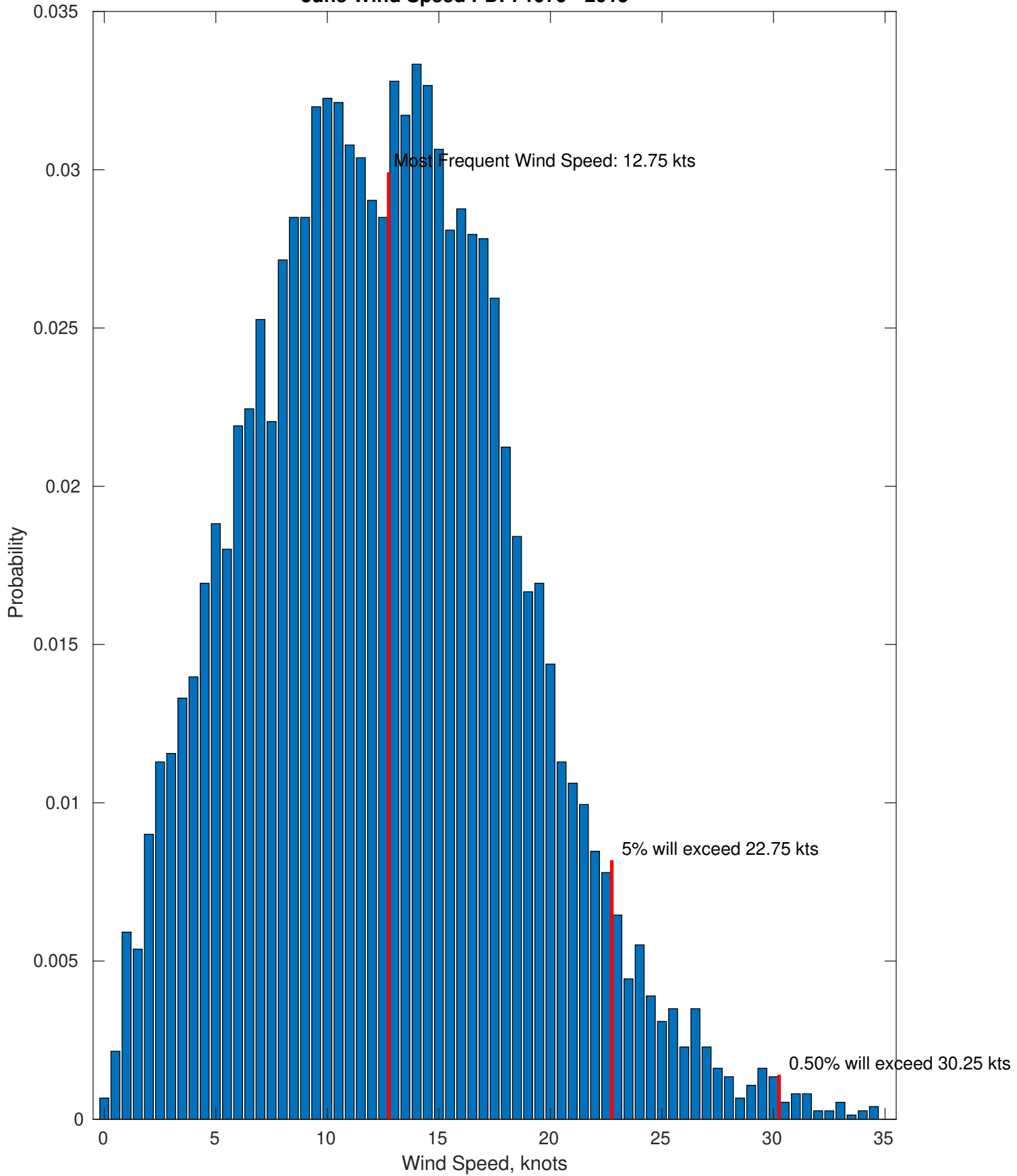
**Wind-Sea: 39.33%**



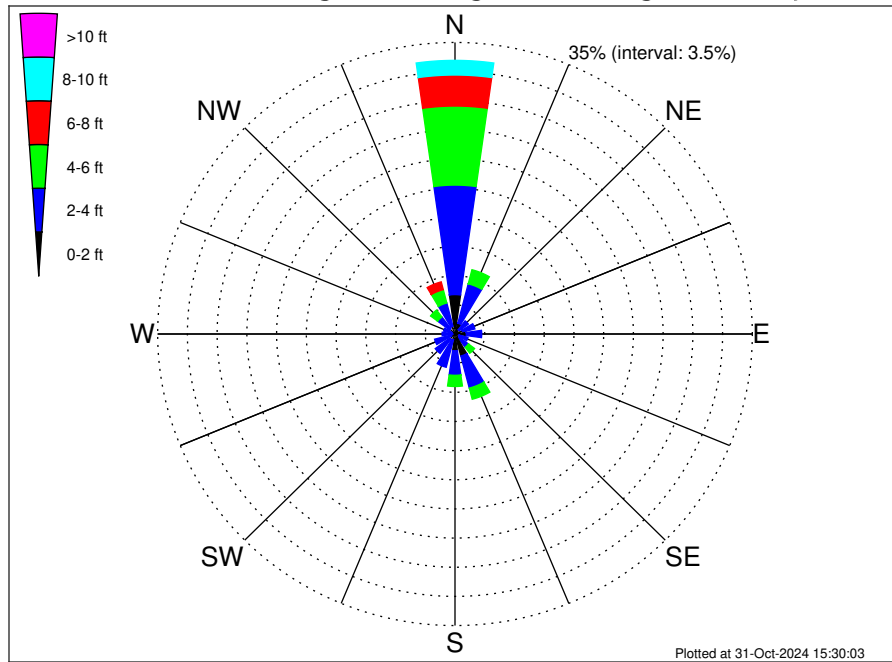
**Swell: 60.67%**



June Wind Speed PDF: 1979 - 2015



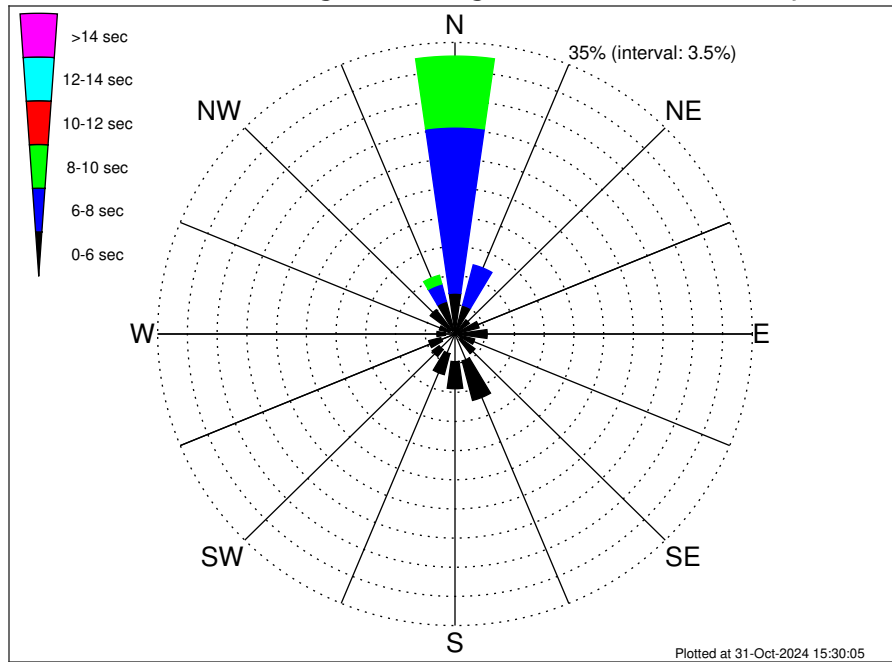
**UK Cable Route GT - Middlesborough Climatological WaveHeight Rose for June: 1979 - 2015**



**Joint Frequency Distribution Table**

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	0.66	0.20	0.01	0.20	0.19	0.07	0.07	0.56	0.52	0.11	0.05	•	0.03	0.11	0.16	0.16	3.10
1 - 2 ft	4.07	1.13	0.65	0.74	1.14	0.43	0.58	2.16	1.49	0.62	0.75	0.46	0.26	0.30	0.63	0.81	16.21
2 - 4 ft	13.15	4.89	1.32	1.48	1.81	1.09	1.34	3.98	2.94	3.40	2.11	2.03	1.24	0.98	1.77	2.88	46.41
4 - 6 ft	9.49	1.75	0.51	0.85	0.81	0.74	0.90	1.38	1.34	0.81	0.40	0.60	0.52	0.47	1.03	1.65	23.27
6 - 8 ft	3.72	0.46	0.08	0.30	0.20	0.16	0.11	0.28	0.28	0.12	0.05	0.11	0.08	0.04	0.22	0.97	7.18
8 - 10 ft	1.76	0.15	0.04	0.09	0.07	0.01	•	•	•	•	•	•	0.01	0.03	0.04	0.50	2.70
10 - 12 ft	0.51	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.16	0.67
12 - 14 ft	0.11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.22	0.32
14 - 16 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.13	0.13
16 - 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
> 18 ft	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	33.47	8.58	2.61	3.66	4.22	2.50	3.00	8.37	6.59	5.05	3.37	3.20	2.14	1.92	3.86	7.47	100.00

**UK Cable Route GT - Middlesborough Climatological WavePeriod Rose for June: 1979 - 2015**

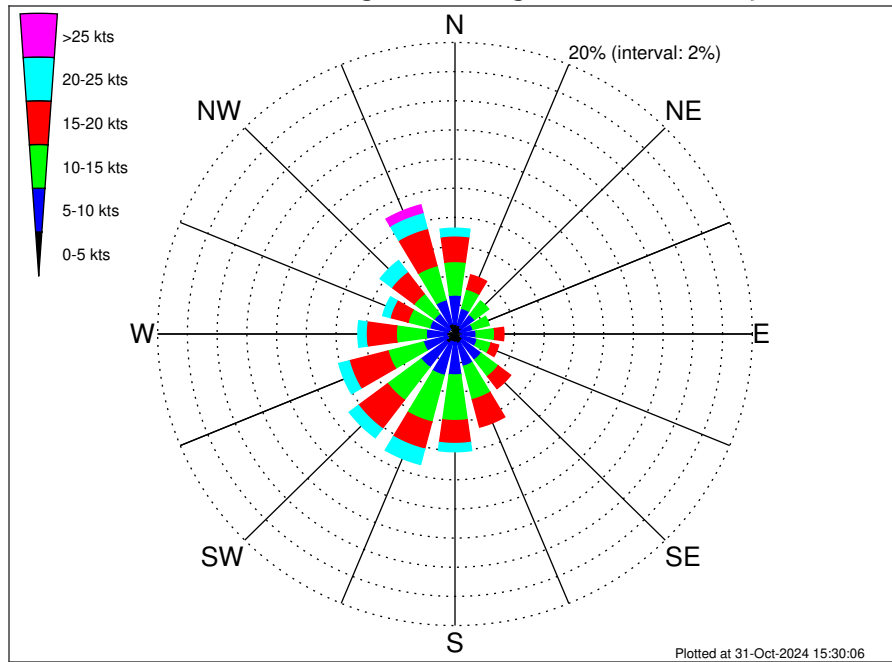


**Joint Frequency Distribution Table**

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
calm	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1 - 2 sec	•	0.01	•	0.01	•	•	•	0.01	0.05	0.01	•	•	•	•	•	•	0.11
2 - 4 sec	0.23	0.26	0.44	0.44	0.42	0.60	0.79	3.32	3.27	2.42	2.34	1.73	1.14	0.75	0.66	0.54	19.35
4 - 6 sec	4.69	3.31	1.68	2.47	3.37	1.79	2.15	4.91	3.25	2.61	1.03	1.47	0.99	1.16	3.00	3.51	41.38
6 - 8 sec	19.95	5.00	0.47	0.73	0.43	0.11	0.05	0.13	0.01	0.01	•	•	•	0.01	0.20	2.16	29.27
8 - 10 sec	8.49	•	0.01	•	•	•	•	•	•	•	•	•	•	•	•	1.08	9.58
10 - 12 sec	0.11	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.16	0.27
12 - 14 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	0.03
14 - 16 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
18 - 20 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22 - 24 sec	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	33.47	8.58	2.61	3.66	4.22	2.50	3.00	8.37	6.59	5.05	3.37	3.20	2.14	1.92	3.86	7.47	100.00



### UK Cable Route GT - Middlesborough 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	0.03	0.01	•	•	0.03	0.01	0.01	0.04	0.01	0.03	0.04	0.03	•	0.01	0.28
0 - 5 kts	0.66	0.62	0.51	0.36	0.50	0.40	0.58	0.65	0.56	0.51	0.74	0.50	0.52	0.47	0.44	0.71	8.74
5 - 10 kts	2.00	1.18	1.12	0.87	0.93	1.14	1.60	1.63	2.23	2.38	2.10	1.67	1.37	1.26	1.29	1.69	24.46
10 - 15 kts	2.30	1.36	1.18	1.13	1.25	0.97	1.44	2.37	3.13	3.31	2.82	2.46	2.02	1.51	1.71	2.42	31.36
15 - 20 kts	1.76	1.02	0.47	0.39	0.62	0.52	1.05	1.95	1.57	1.92	2.46	2.70	2.03	1.25	1.90	2.63	24.25
20 - 25 kts	0.52	0.17	0.05	0.20	0.24	0.13	0.28	0.35	0.56	1.09	0.78	0.73	0.55	0.51	0.97	1.13	8.28
25 - 30 kts	0.12	0.11	0.07	0.12	0.05	0.04	0.08	0.05	0.07	0.19	0.16	0.13	0.16	0.05	0.27	0.42	2.10
30 - 35 kts	0.03	0.01	•	0.01	•	•	•	0.01	0.01	0.01	0.01	0.04	0.05	0.03	0.17	0.13	0.54
35 - 40 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40 - 45 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
45 - 50 kts	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Total	7.41	4.49	3.43	3.10	3.59	3.21	5.05	7.02	8.16	9.45	9.09	8.25	6.75	5.11	6.75	9.15	100.00