

OCS A-0501 North - July

Weather Days

Wave Height > 5.0 ft Mean: 5.4 days Range: 2.5 - 8.2 days p50: 5 days p90: 12 days

Wave Height > 6.0 ft Mean: 2.7 days Range: 0.7 - 4.7 days p50: 3 days p90: 7 days

Wave Height > 7.0 ft Mean: 1.2 days Range: 0.0 - 2.4 days p50: 1 days p90: 5 days

Working Window Probability

Wave Height < 5.0 ft 3 days or longer: 61%

5 days or longer: 28%

7 days or longer: 17%

Wave Height < 6.0 ft 3 days or longer: 75%

5 days or longer: 48%

7 days or longer: 34%

Wave Height < 7.0 ft 3 days or longer: 82%

5 days or longer: 59%

7 days or longer: 52%

Waves

Mean Height: 2 - 4 ft

The wave heights will occasionally reach 8 - 10 ft, but rarely higher.

Mean Period: 6 - 8 sec

The wave periods will occasionally reach 12 - 14 sec, but rarely longer.

Principle Direction, from: SSW

WindSea/Swell: 21% / 79%

Winds

Mean Speed: 10 - 15 kts

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

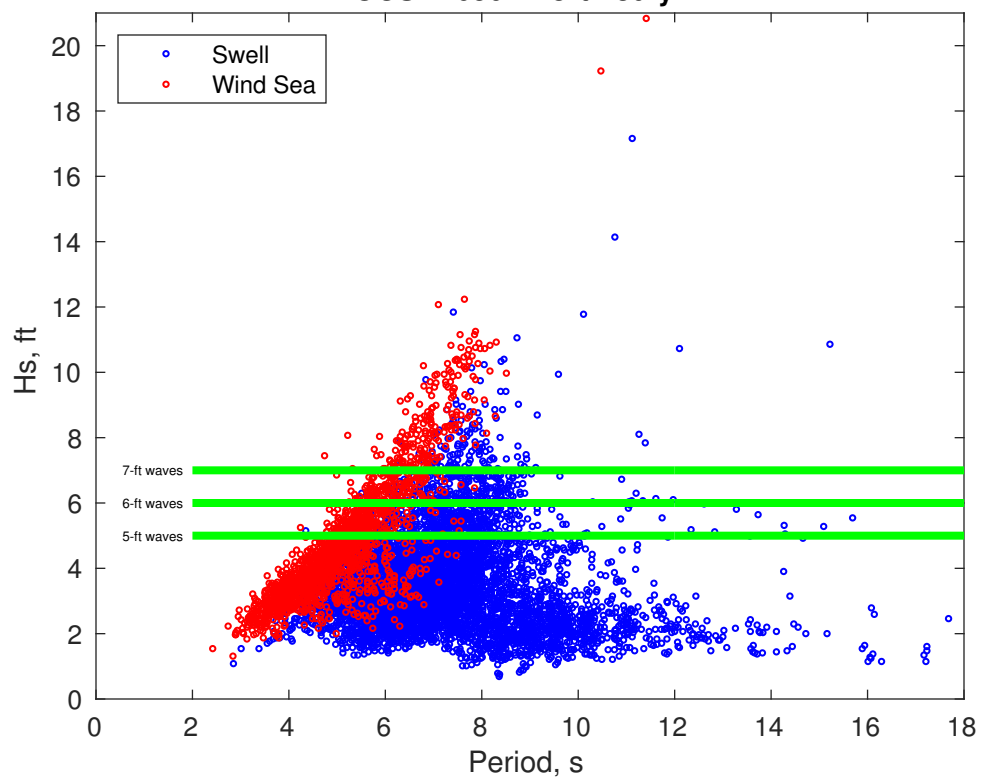
Principle Direction, from: SW

Severe Storms

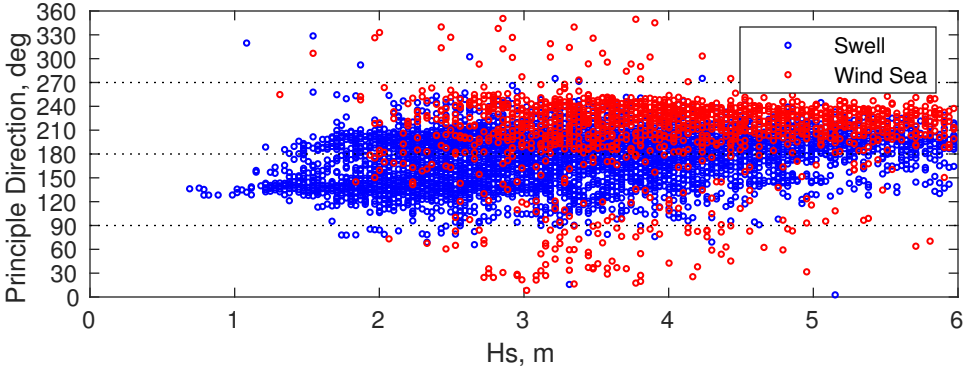
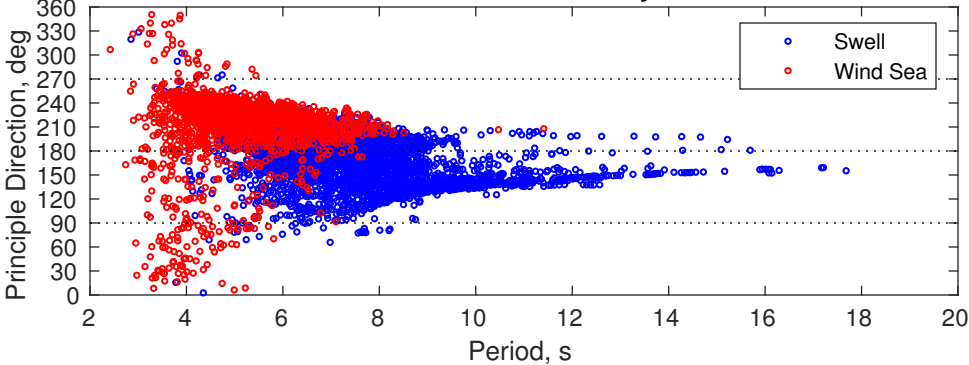
There is a 6 % chance of a storm with winds peaking above 34 kts.

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

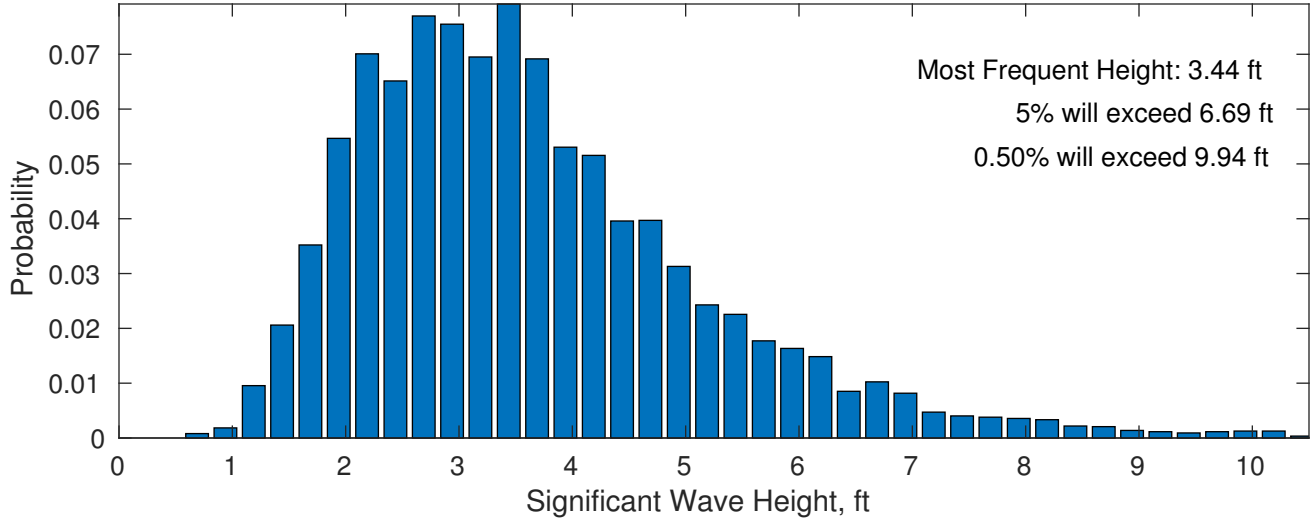
OCS A-0501 North July



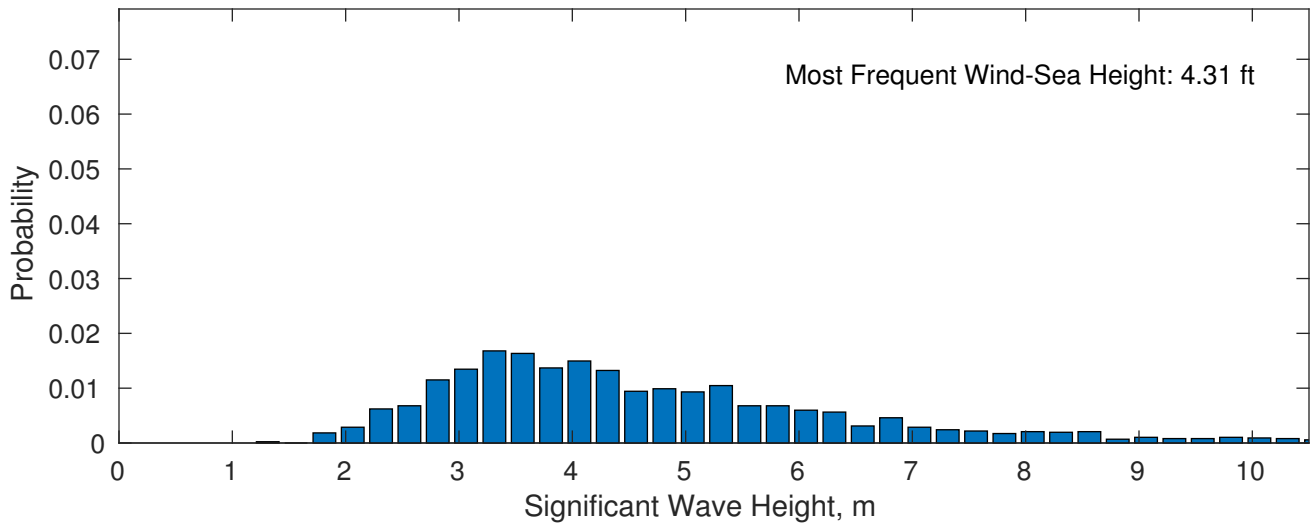
OCS A-0501 North July



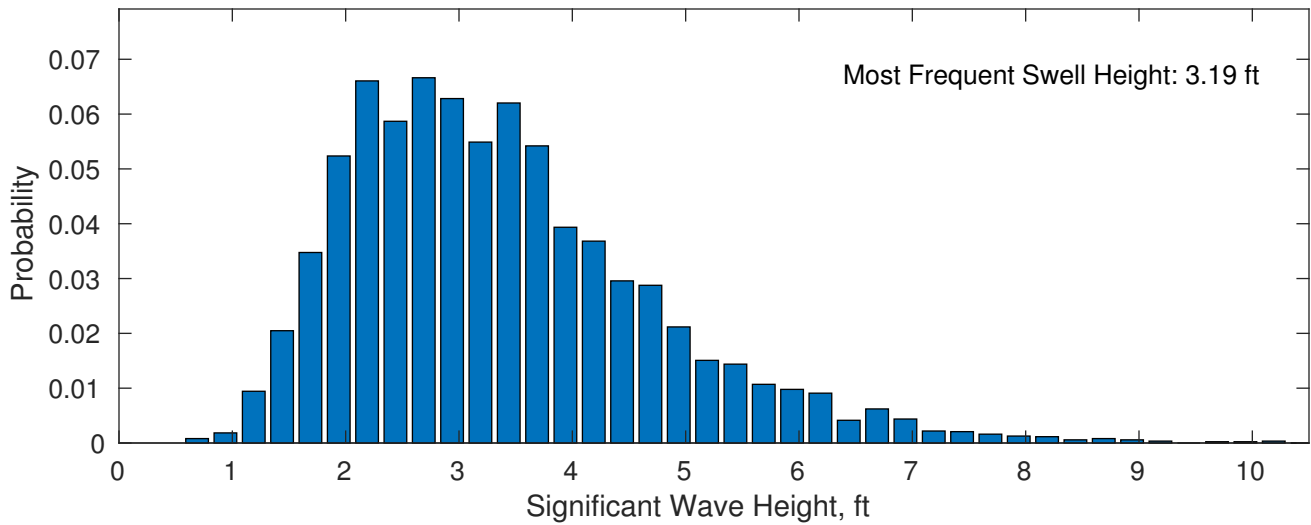
July Wave Height PDF: 1979 - 2015



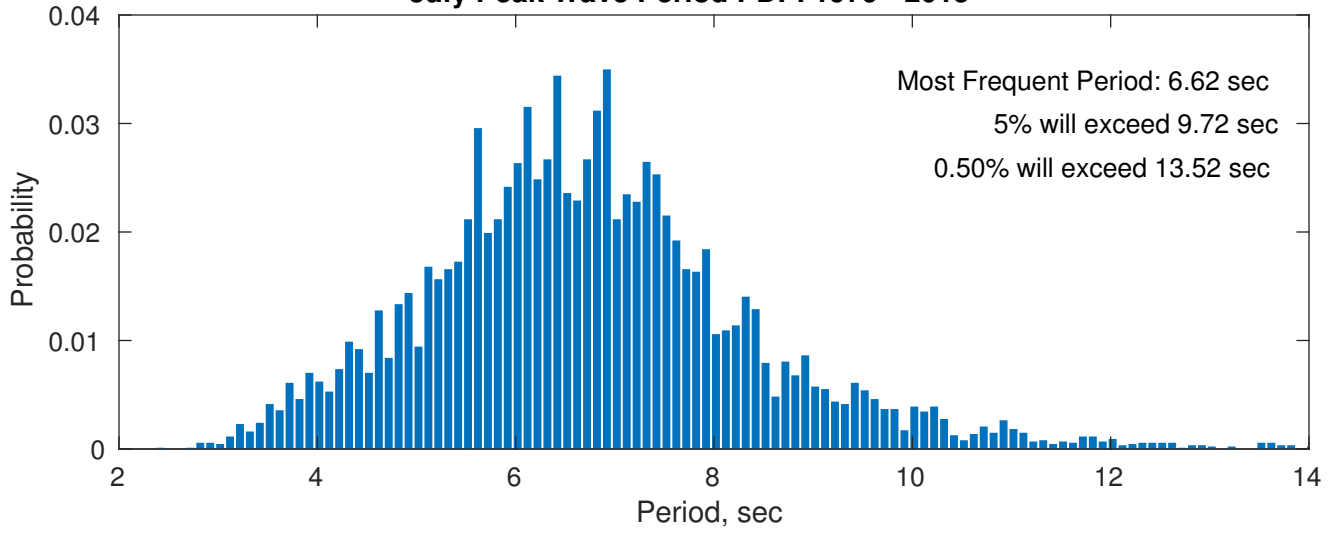
Wind-Sea: 21.33%



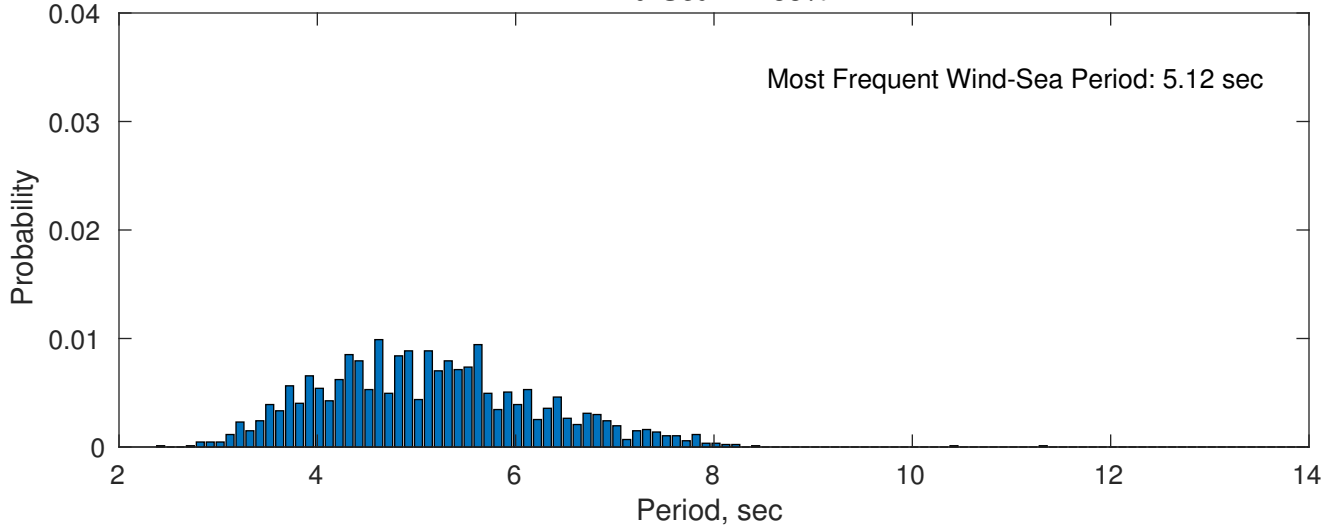
Swell: 78.67%



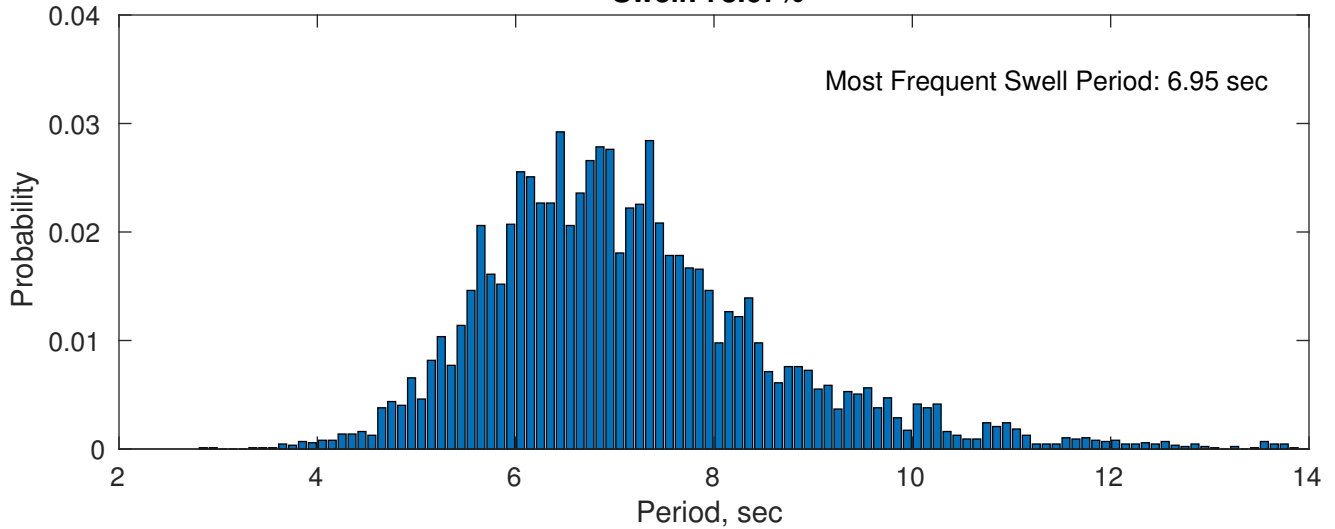
July Peak Wave Period PDF: 1979 - 2015



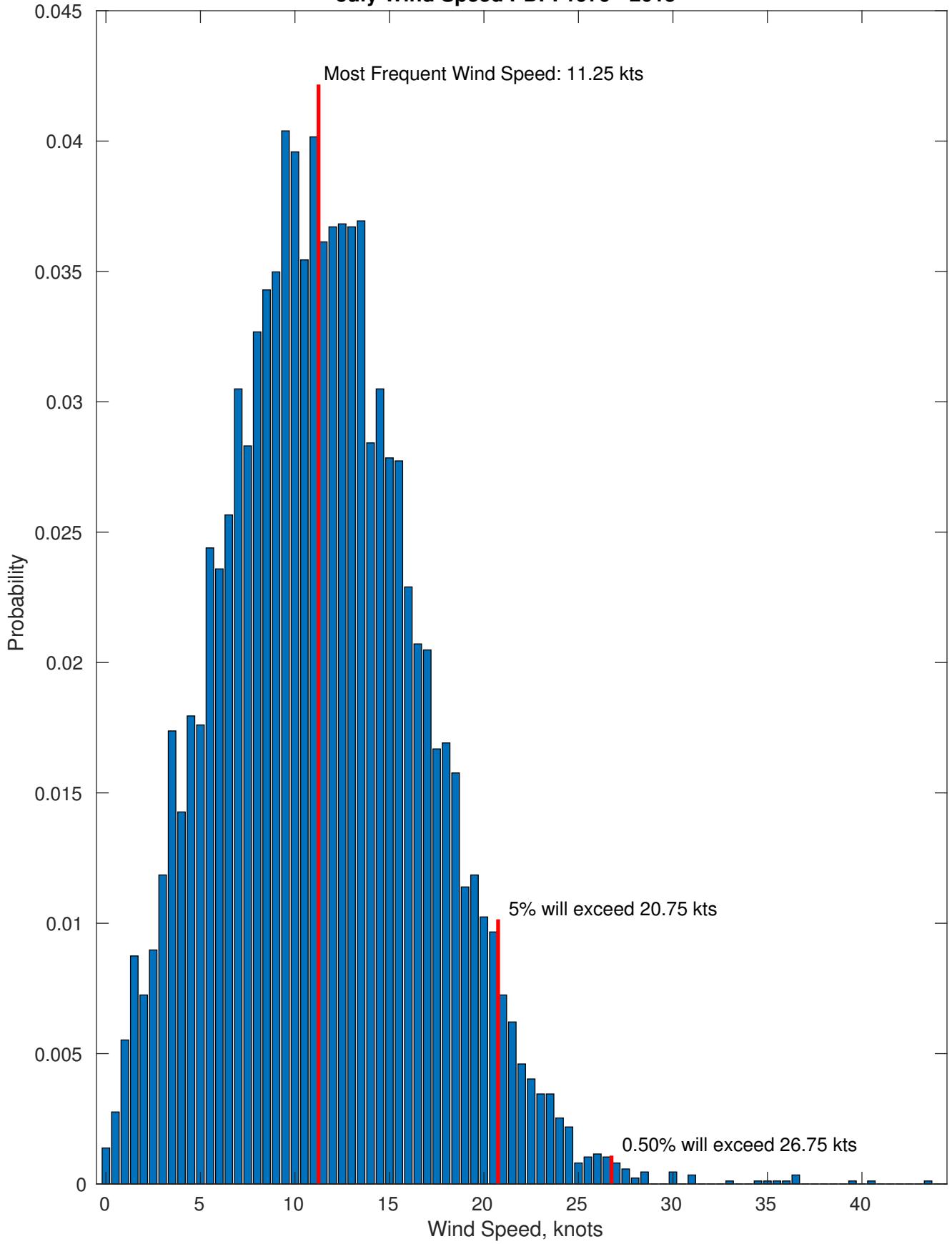
Wind-Sea: 21.33%



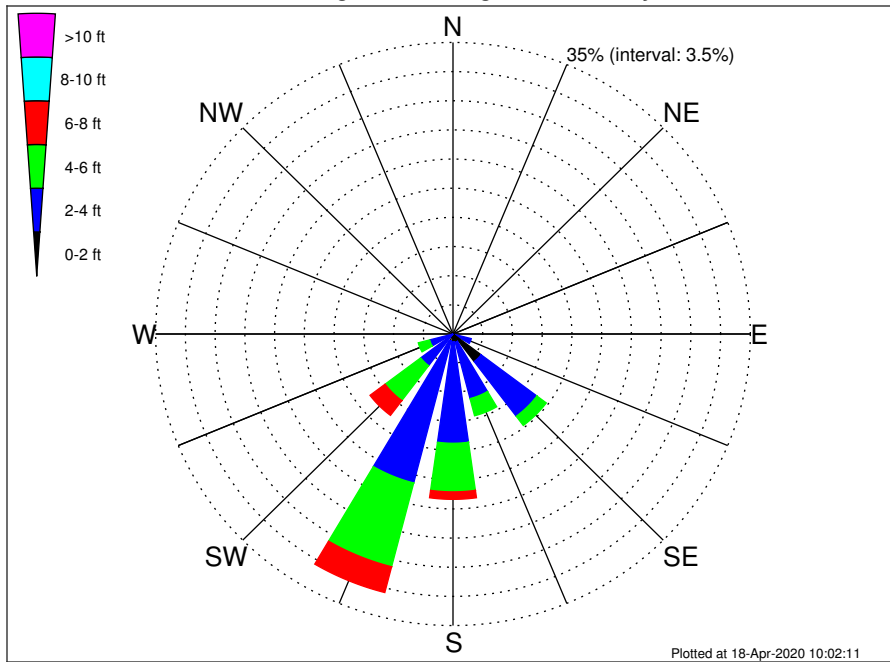
Swell: 78.67%



July Wind Speed PDF: 1979 - 2015



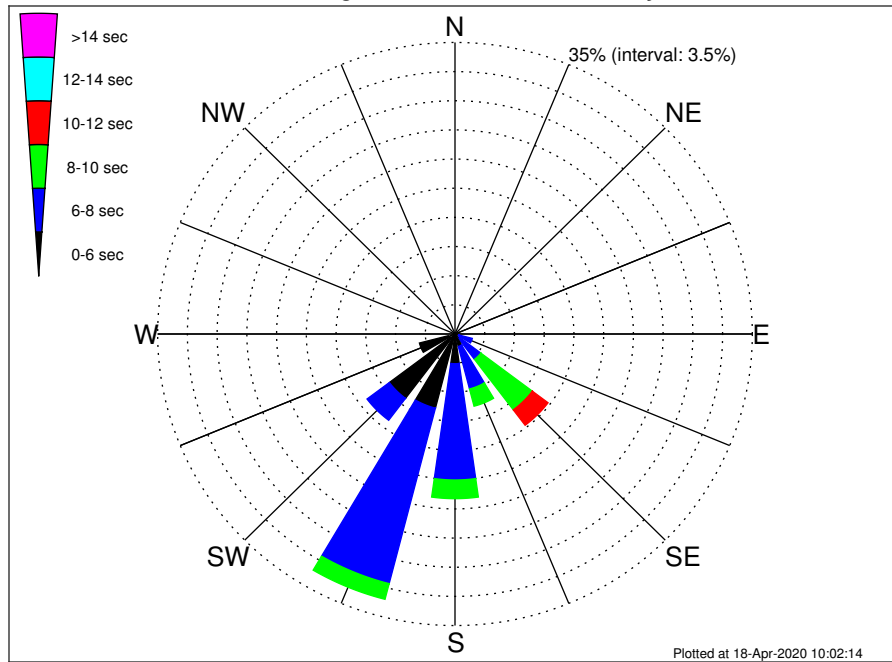
OCS A-0501 North Climatological WaveHeight Rose for July: 1979 - 2015



Joint Frequency Distribution Table

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | Total |
|------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|--------|
| calm | • | • | • | • | • | • | 0.09 | • | • | • | • | • | • | • | • | • | 0.09 |
| 1 - 2 ft | • | • | • | 0.05 | 0.03 | 0.26 | 4.05 | 1.02 | 0.94 | 0.87 | 0.06 | 0.08 | • | 0.01 | 0.02 | 0.02 | 7.43 |
| 2 - 4 ft | 0.03 | 0.21 | 0.17 | 0.25 | 0.66 | 1.96 | 8.23 | 6.99 | 12.17 | 17.59 | 4.71 | 2.76 | 0.20 | 0.12 | 0.07 | 0.08 | 56.19 |
| 4 - 6 ft | 0.01 | 0.02 | 0.05 | 0.09 | 0.29 | 0.36 | 1.38 | 2.13 | 5.83 | 10.39 | 5.25 | 1.38 | 0.05 | 0.05 | • | • | 27.27 |
| 6 - 8 ft | 0.01 | 0.01 | • | 0.01 | • | 0.02 | 0.08 | 0.31 | 0.90 | 3.20 | 2.22 | 0.18 | • | 0.01 | • | • | 6.96 |
| 8 - 10 ft | 0.01 | • | • | • | 0.01 | • | 0.01 | • | 0.14 | 0.79 | 0.56 | • | • | • | • | • | 1.53 |
| 10 - 12 ft | • | • | • | • | • | 0.02 | • | • | 0.01 | 0.24 | 0.17 | • | • | • | • | • | 0.45 |
| 12 - 14 ft | • | • | • | • | 0.01 | • | • | • | 0.01 | • | • | • | • | • | • | • | 0.02 |
| 14 - 16 ft | • | • | • | • | • | • | • | • | • | 0.01 | • | • | • | • | • | • | 0.01 |
| 16 - 18 ft | • | • | • | • | • | • | • | • | • | 0.01 | • | • | • | • | • | • | 0.01 |
| > 18 ft | • | • | • | • | • | • | • | • | • | 0.02 | • | • | • | • | • | • | 0.02 |
| Total | 0.07 | 0.24 | 0.22 | 0.40 | 1.00 | 2.62 | 13.84 | 10.45 | 20.01 | 33.14 | 12.97 | 4.41 | 0.24 | 0.18 | 0.09 | 0.10 | 100.00 |

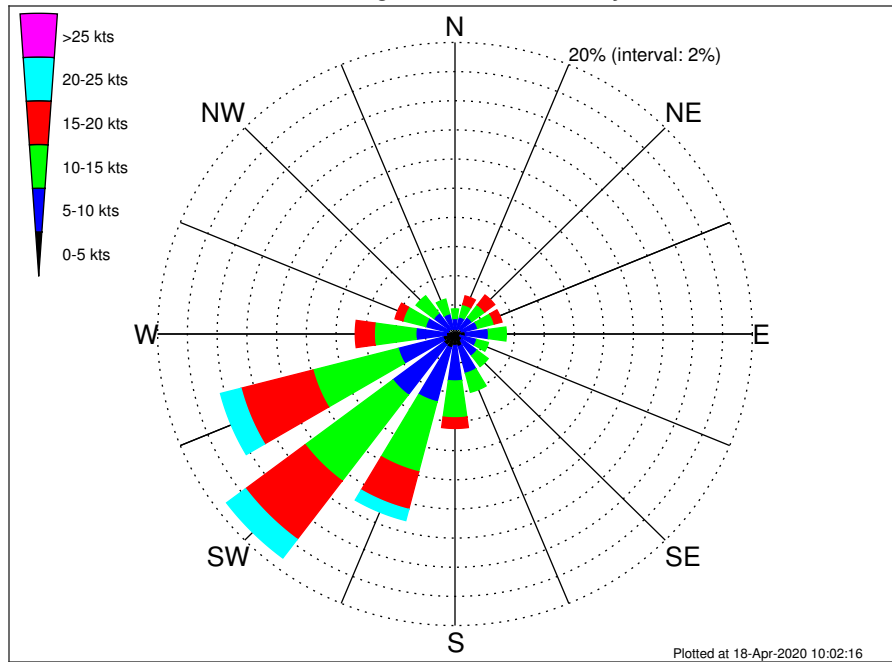
OCS A-0501 North Climatological WavePeriod Rose for July: 1979 - 2015



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 | 0.03 | 0.20 | 0.16 | 0.14 | 0.09 | 0.13 | 0.08 | 0.18 | 0.26 | 0.28 | 0.59 | 0.82 | 0.10 | 0.06 | 0.09 | 0.10 | 3.31 |
| 4 - 6 sec | 0.03 | 0.05 | 0.06 | 0.21 | 0.48 | 0.35 | 0.61 | 1.36 | 3.30 | 8.92 | 9.09 | 3.51 | 0.14 | 0.13 | • | • | 28.23 |
| 6 - 8 sec | • | • | • | 0.06 | 0.37 | 1.63 | 3.12 | 5.27 | 13.96 | 21.76 | 3.29 | 0.08 | • | • | • | • | 49.54 |
| 8 - 10 sec | • | • | • | • | 0.06 | 0.52 | 7.59 | 2.14 | 2.24 | 1.94 | • | • | • | • | • | • | 14.50 |
| 10 - 12 sec | • | • | • | • | • | • | 2.31 | 0.68 | 0.17 | 0.16 | • | • | • | • | • | • | 3.33 |
| 12 - 14 sec | • | • | • | • | • | • | 0.13 | 0.52 | 0.03 | 0.05 | • | • | • | • | • | • | 0.72 |
| 14 - 16 sec | • | • | • | • | • | • | • | 0.14 | 0.03 | 0.03 | • | • | • | • | • | • | 0.21 |
| 18 - 20 sec | • | • | • | • | • | • | • | 0.16 | • | • | • | • | • | • | • | • | 0.16 |
| 22 - 24 sec | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Total | 0.07 | 0.24 | 0.22 | 0.40 | 1.00 | 2.62 | 13.84 | 10.45 | 20.01 | 33.14 | 12.97 | 4.41 | 0.24 | 0.18 | 0.09 | 0.10 | 100.00 |

OCS A-0501 North 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 | 0.02 | • | 0.05 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.05 | 0.06 | 0.02 | 0.01 | 0.01 | 0.05 | 0.01 | 0.41 |
| 0 - 5 kts | 0.31 | 0.35 | 0.41 | 0.45 | 0.68 | 0.35 | 0.54 | 0.86 | 0.77 | 0.93 | 0.87 | 0.82 | 0.58 | 0.48 | 0.41 | 0.38 | 9.19 |
| 5 - 10 kts | 0.74 | 0.87 | 0.97 | 1.10 | 1.55 | 1.15 | 1.30 | 1.90 | 2.43 | 3.83 | 4.30 | 3.11 | 2.05 | 1.55 | 1.33 | 1.05 | 29.24 |
| 10 - 15 kts | 0.66 | 0.87 | 1.08 | 1.15 | 1.20 | 0.81 | 0.93 | 1.35 | 2.53 | 4.96 | 7.39 | 5.93 | 2.80 | 1.58 | 1.48 | 1.04 | 35.74 |
| 15 - 20 kts | 0.26 | 0.61 | 0.84 | 0.54 | 0.21 | 0.29 | 0.15 | 0.32 | 0.72 | 2.66 | 5.02 | 4.99 | 1.28 | 0.54 | 0.45 | 0.35 | 19.23 |
| 20 - 25 kts | 0.13 | 0.15 | 0.16 | 0.05 | 0.07 | 0.10 | 0.07 | 0.09 | 0.25 | 0.79 | 1.60 | 1.43 | 0.21 | 0.12 | 0.14 | 0.01 | 5.36 |
| 25 - 30 kts | 0.01 | 0.02 | 0.02 | 0.01 | 0.03 | 0.02 | 0.03 | 0.03 | • | 0.08 | 0.14 | 0.14 | 0.01 | • | 0.05 | • | 0.61 |
| 30 - 35 kts | 0.01 | 0.01 | • | • | • | • | • | • | 0.01 | 0.01 | 0.01 | 0.05 | • | • | • | • | 0.10 |
| 35 - 40 kts | • | 0.01 | • | 0.02 | • | • | • | 0.01 | • | 0.01 | • | 0.01 | • | • | • | 0.01 | 0.08 |
| 40 - 45 kts | • | 0.01 | • | 0.01 | • | • | • | • | • | • | • | • | • | • | • | • | 0.02 |
| 45 - 50 kts | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Total | 2.14 | 2.91 | 3.53 | 3.36 | 3.76 | 2.74 | 3.05 | 4.59 | 6.74 | 13.33 | 19.39 | 16.49 | 6.93 | 4.28 | 3.91 | 2.84 | 100.00 |