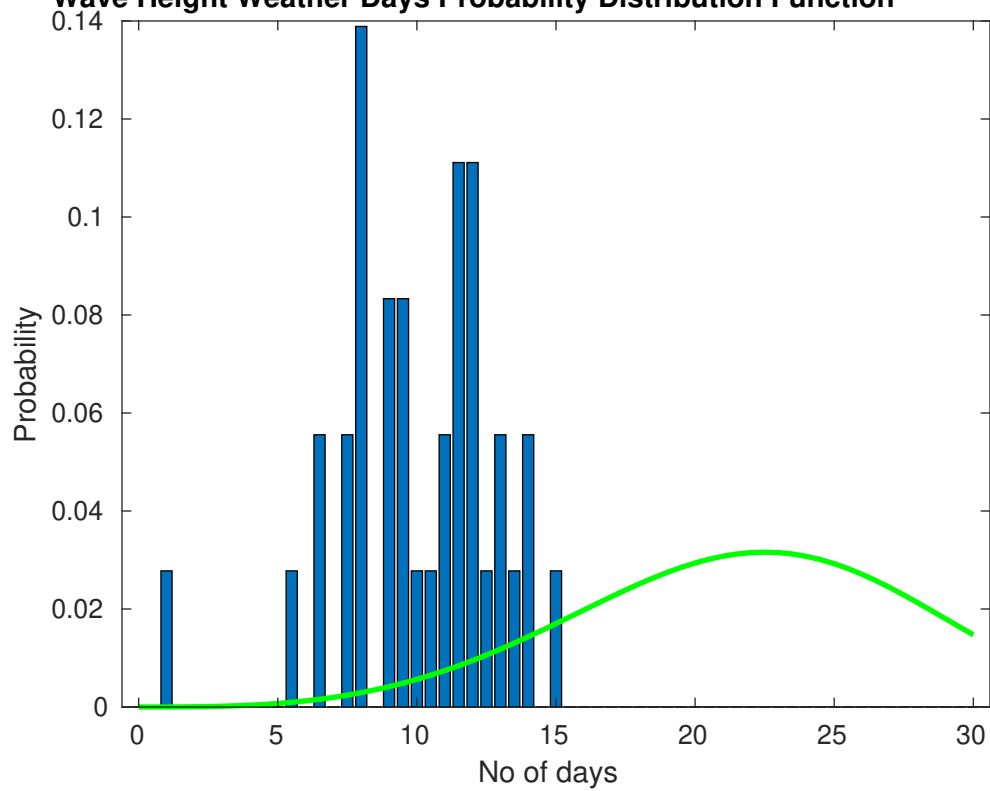
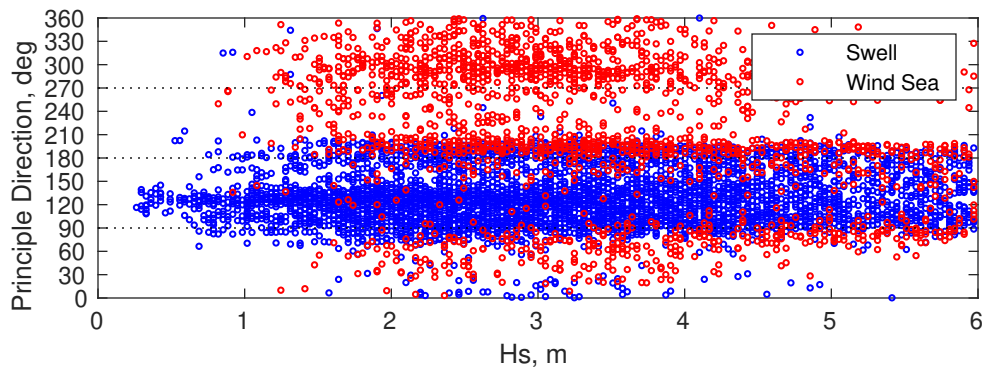
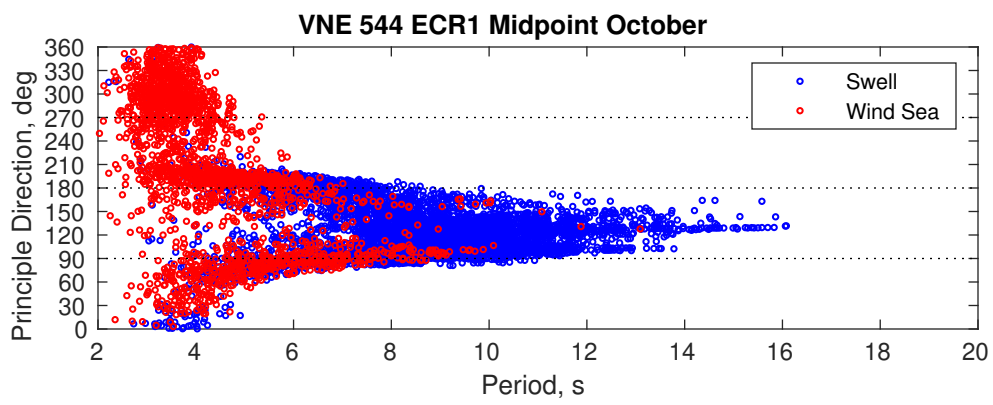
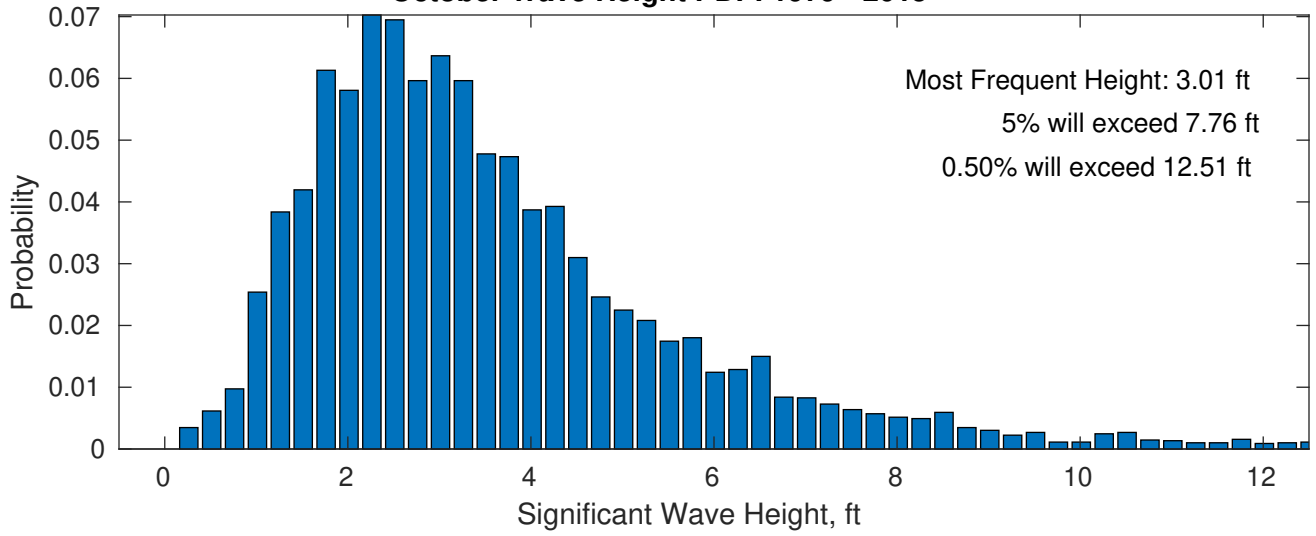


Wave Height Weather Days Probability Distribution Function

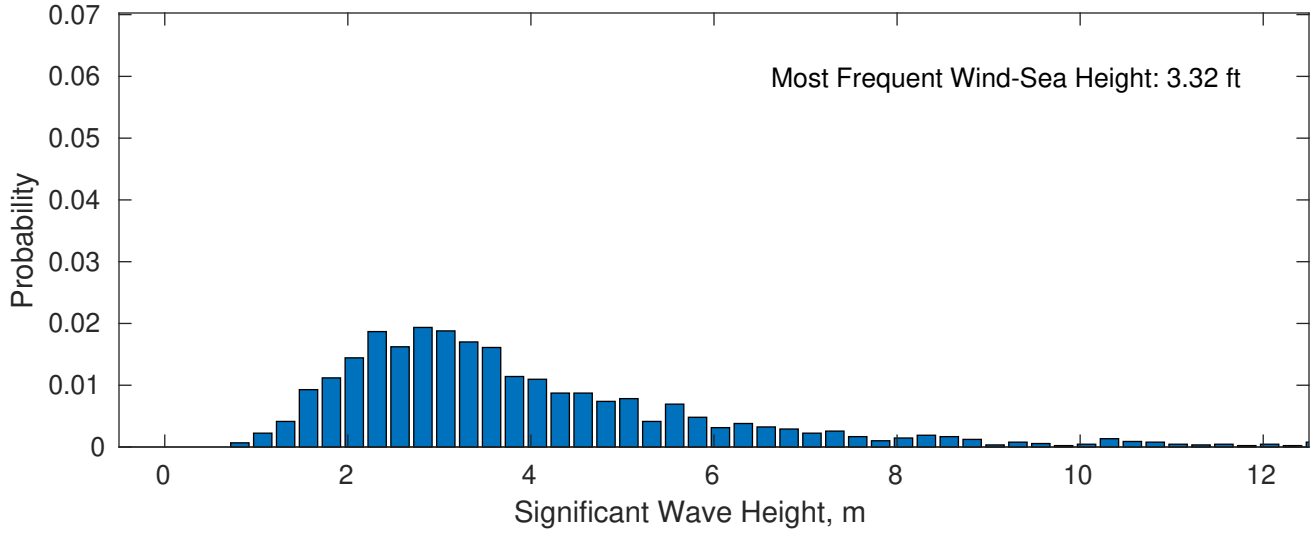




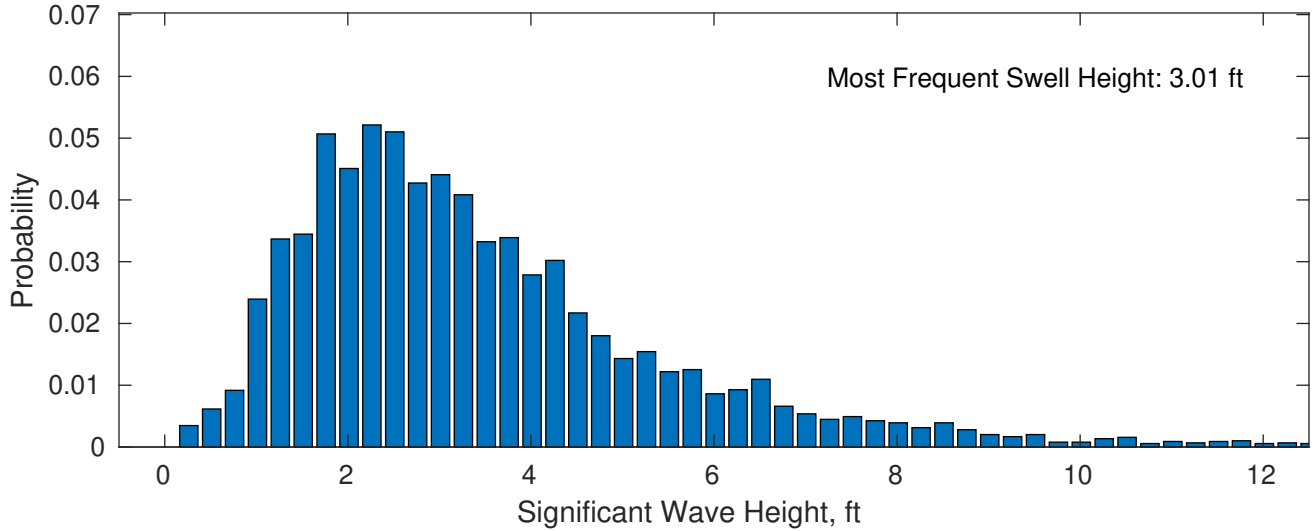
October Wave Height PDF: 1979 - 2015



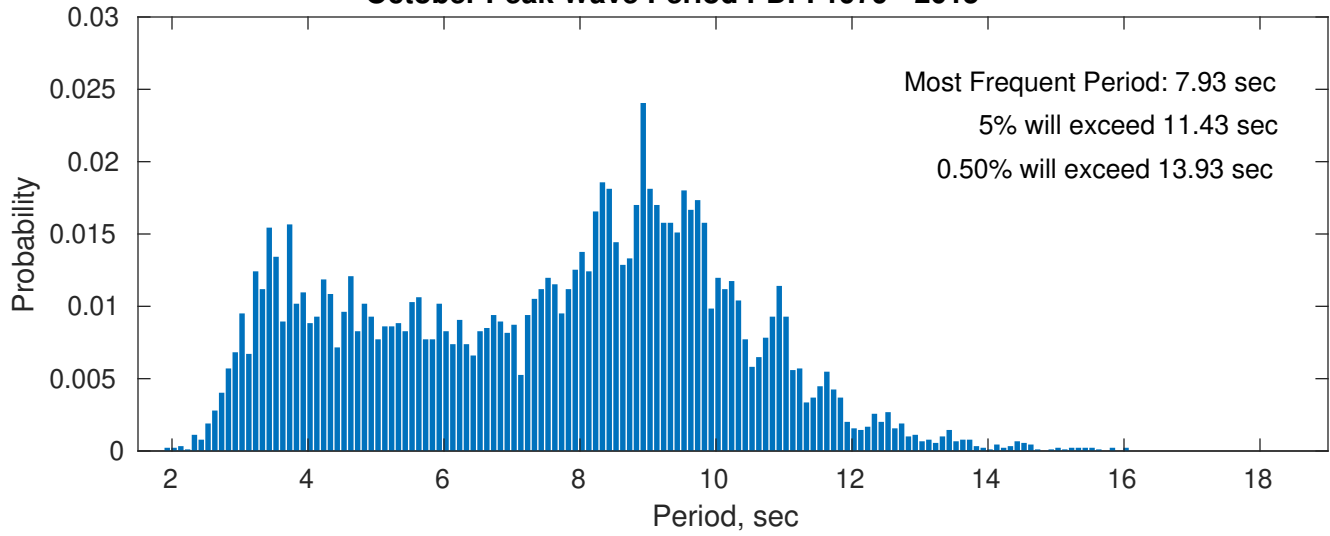
Wind-Sea: 25.65%



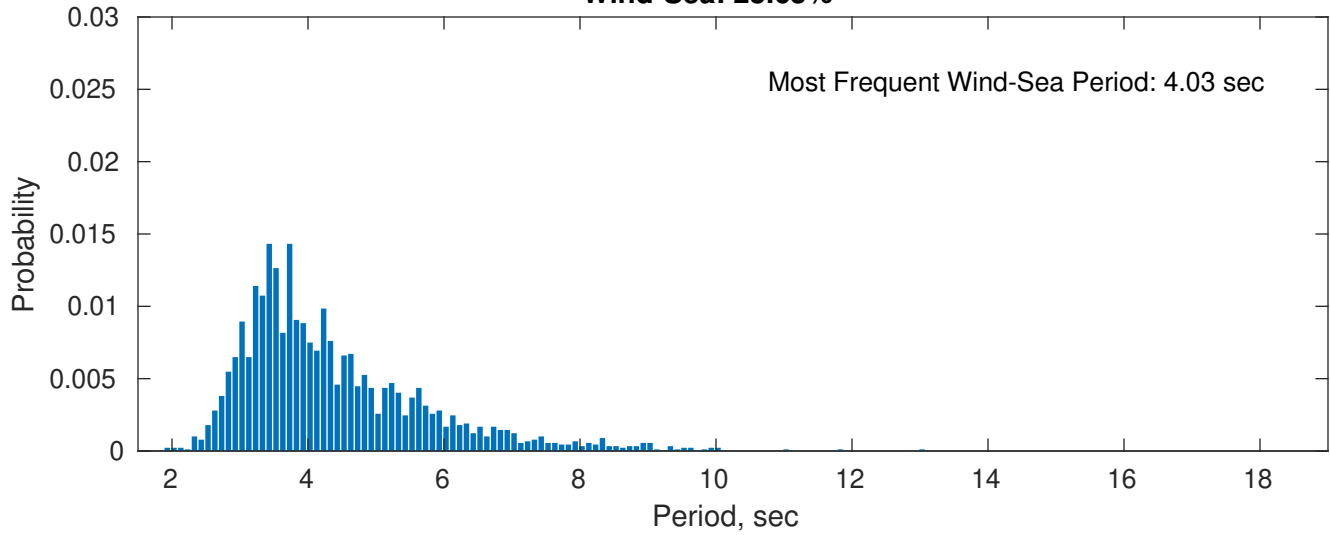
Swell: 74.35%



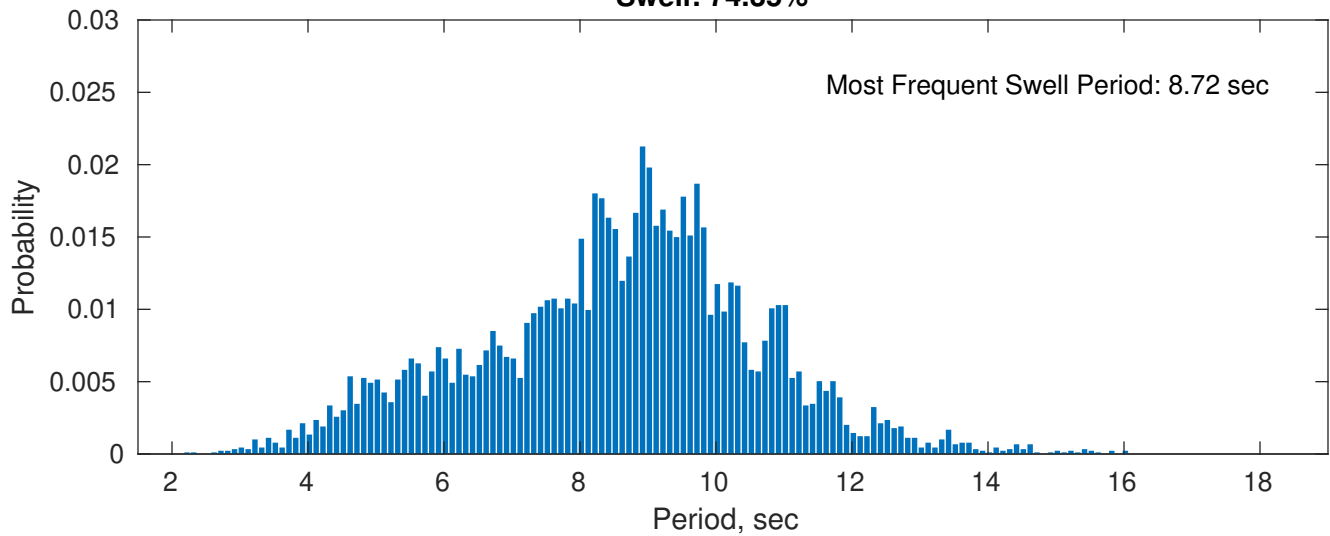
October Peak Wave Period PDF: 1979 - 2015



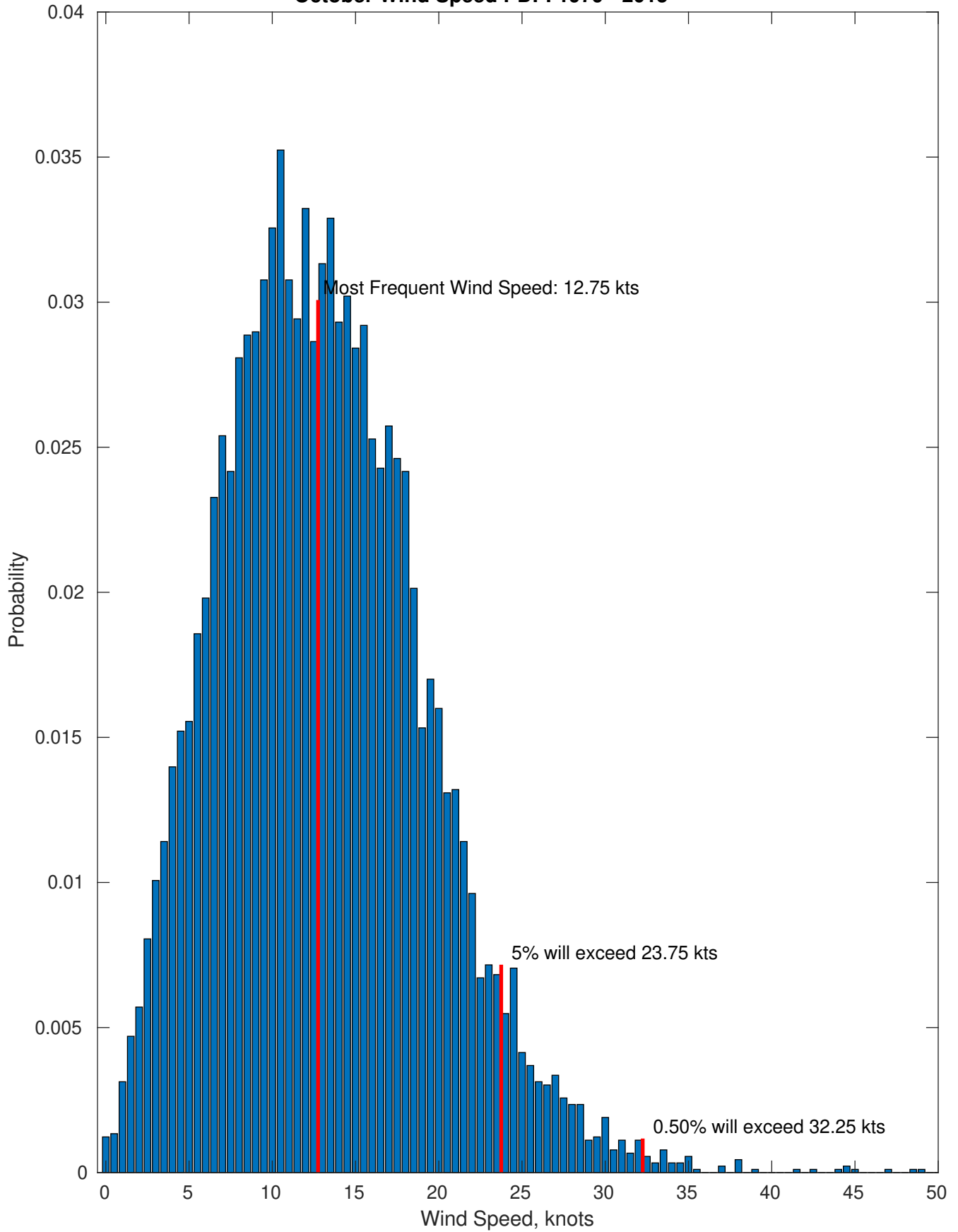
Wind-Sea: 25.65%



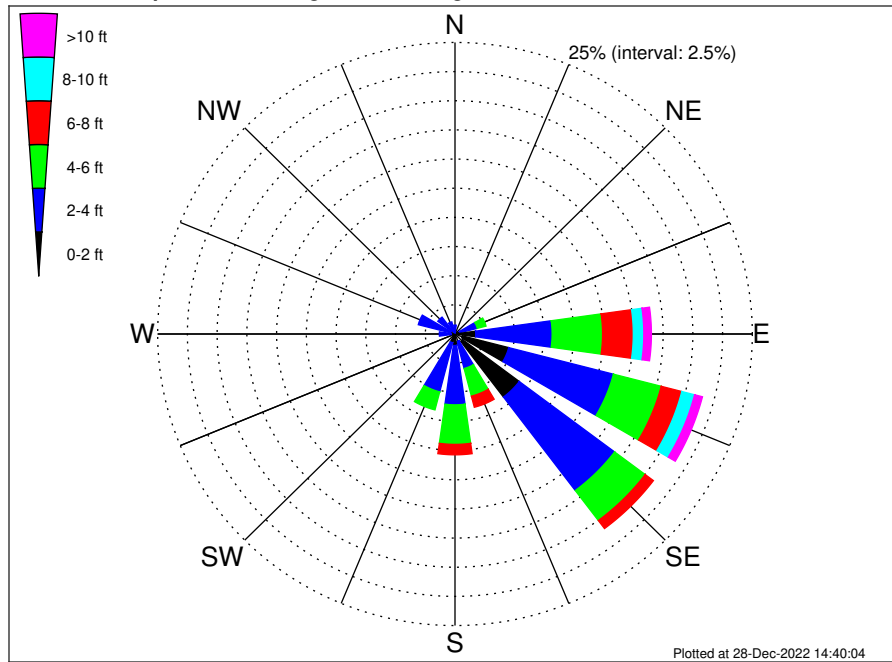
Swell: 74.35%



October Wind Speed PDF: 1979 - 2015



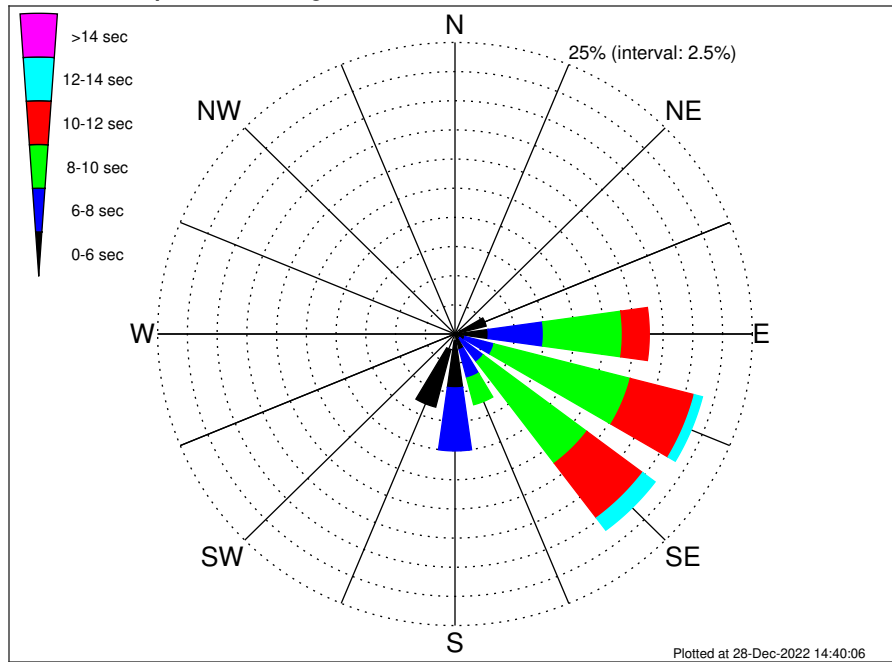
VNE 544 ECR1 Midpoint Climatological WaveHeight Rose for October: 1979 - 2015



Joint Frequency Distribution Table

| | N | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | Total |
|------------|------|------|------|------|-------|-------|-------|------|-------|------|------|------|------|------|------|------|--------|
| calm | • | • | • | 0.01 | 0.25 | 0.65 | 0.79 | 0.07 | 0.06 | 0.04 | 0.01 | 0.01 | 0.02 | • | 0.02 | • | 1.94 |
| 1 - 2 ft | 0.07 | 0.06 | 0.07 | 0.41 | 1.50 | 4.02 | 5.97 | 0.59 | 0.93 | 0.73 | 0.12 | 0.22 | 0.30 | 0.44 | 0.34 | 0.17 | 15.93 |
| 2 - 4 ft | 0.69 | 0.49 | 0.60 | 1.51 | 6.42 | 9.10 | 10.04 | 2.39 | 5.09 | 4.35 | 0.59 | 0.37 | 1.00 | 2.75 | 1.45 | 0.91 | 47.76 |
| 4 - 6 ft | 0.06 | 0.09 | 0.10 | 0.76 | 4.24 | 4.15 | 3.22 | 2.45 | 3.39 | 1.60 | 0.11 | 0.27 | 0.50 | 0.45 | 0.15 | 0.10 | 21.64 |
| 6 - 8 ft | • | 0.02 | • | 0.20 | 2.58 | 1.79 | 0.86 | 0.98 | 0.90 | 0.25 | 0.02 | 0.09 | 0.04 | 0.03 | • | • | 7.78 |
| 8 - 10 ft | • | • | • | 0.01 | 0.88 | 1.11 | 0.34 | 0.31 | 0.20 | 0.02 | 0.02 | • | • | • | • | • | 2.90 |
| 10 - 12 ft | • | • | • | • | 0.45 | 0.35 | 0.18 | 0.26 | 0.03 | • | • | • | • | • | • | • | 1.26 |
| 12 - 14 ft | • | • | • | • | 0.17 | 0.28 | 0.06 | 0.08 | 0.01 | • | • | • | • | • | • | • | 0.59 |
| 14 - 16 ft | • | • | • | • | 0.02 | 0.03 | • | 0.03 | 0.01 | • | • | • | • | • | • | • | 0.10 |
| 16 - 18 ft | • | • | • | • | • | 0.01 | 0.02 | 0.02 | • | • | • | • | • | • | • | • | 0.06 |
| > 18 ft | • | • | • | • | • | 0.01 | 0.02 | 0.01 | • | • | • | • | • | • | • | • | 0.04 |
| Total | 0.82 | 0.66 | 0.77 | 2.91 | 16.51 | 21.49 | 21.50 | 7.21 | 10.62 | 6.99 | 0.88 | 0.96 | 1.87 | 3.67 | 1.96 | 1.17 | 100.00 |

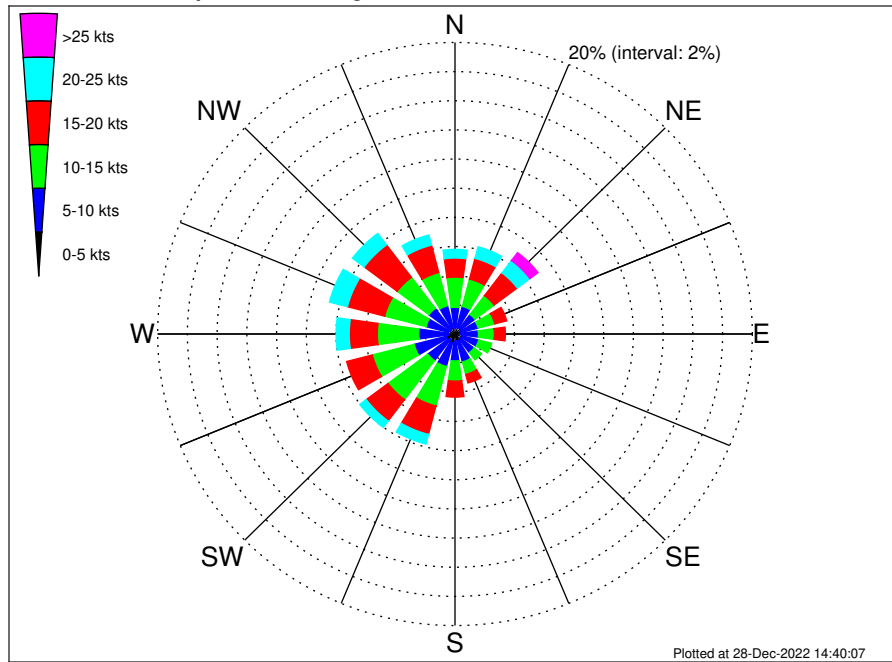
VNE 544 ECR1 Midpoint Climatological WavePeriod Rose for October: 1979 - 2015



Joint Frequency Distribution Table

| | N | NNE | NE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | Total | |
|-------------|------|------|------|------|-------|-------|-------|------|-------|------|------|------|------|------|------|-------|--------|
| calm | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |
| 1 - 2 sec | • | • | • | • | • | • | 0.01 | • | • | • | • | • | • | • | • | 0.01 | |
| 2 - 4 sec | 0.74 | 0.43 | 0.39 | 0.48 | 0.22 | 0.15 | 0.16 | 0.19 | 0.58 | 1.38 | 0.64 | 0.58 | 1.38 | 3.20 | 1.86 | 1.14 | 13.50 |
| 4 - 6 sec | 0.08 | 0.23 | 0.38 | 2.23 | 2.57 | 0.72 | 0.35 | 1.20 | 4.04 | 5.10 | 0.25 | 0.38 | 0.49 | 0.47 | 0.10 | 0.03 | 18.62 |
| 6 - 8 sec | • | • | • | 0.20 | 4.64 | 2.54 | 2.47 | 2.52 | 5.40 | 0.51 | • | • | • | • | • | • | 18.29 |
| 8 - 10 sec | • | • | • | • | 6.63 | 11.83 | 10.90 | 2.36 | 0.53 | • | • | • | • | • | • | • | 32.24 |
| 10 - 12 sec | • | • | • | • | 2.26 | 5.56 | 5.87 | 0.58 | 0.07 | • | • | • | • | • | • | • | 14.34 |
| 12 - 14 sec | • | • | • | • | 0.18 | 0.70 | 1.31 | 0.31 | • | • | • | • | • | • | • | • | 2.51 |
| 14 - 16 sec | • | • | • | • | • | • | 0.41 | 0.04 | • | • | • | • | • | • | • | • | 0.46 |
| 18 - 20 sec | • | • | • | • | • | • | 0.02 | • | • | • | • | • | • | • | • | • | 0.02 |
| 22 - 24 sec | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Total | 0.82 | 0.66 | 0.77 | 2.91 | 16.51 | 21.49 | 21.50 | 7.21 | 10.62 | 6.99 | 0.88 | 0.96 | 1.87 | 3.67 | 1.96 | 1.17 | 100.00 |

VNE 544 ECR1 Midpoint Climatological Wind Rose for October: 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 | 0.03 | 0.03 | • | 0.01 | 0.02 | 0.02 | • | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | • | 0.01 | 0.01 | 0.26 |
| 0 - 5 kts | 0.37 | 0.45 | 0.45 | 0.37 | 0.36 | 0.47 | 0.41 | 0.51 | 0.46 | 0.60 | 0.46 | 0.57 | 0.45 | 0.49 | 0.35 | 0.46 | 7.23 |
| 5 - 10 kts | 1.45 | 1.48 | 1.20 | 1.24 | 1.21 | 1.15 | 1.16 | 1.47 | 1.36 | 1.68 | 1.82 | 2.25 | 1.97 | 1.52 | 1.85 | 1.53 | 24.35 |
| 10 - 15 kts | 2.07 | 1.94 | 1.62 | 1.15 | 1.07 | 0.90 | 0.63 | 0.88 | 1.39 | 2.80 | 3.35 | 2.90 | 2.79 | 2.88 | 2.66 | 2.35 | 31.36 |
| 15 - 20 kts | 1.31 | 1.47 | 1.95 | 0.83 | 0.74 | 0.29 | 0.29 | 0.60 | 1.10 | 2.01 | 1.83 | 1.79 | 1.89 | 2.58 | 2.79 | 1.95 | 23.42 |
| 20 - 25 kts | 0.59 | 0.82 | 1.06 | 0.41 | 0.37 | 0.28 | 0.13 | 0.16 | 0.34 | 0.68 | 0.55 | 0.43 | 0.88 | 1.25 | 0.98 | 0.72 | 9.66 |
| 25 - 30 kts | 0.18 | 0.36 | 0.41 | 0.32 | 0.07 | 0.10 | 0.08 | 0.10 | 0.15 | 0.07 | 0.12 | 0.12 | 0.28 | 0.20 | 0.10 | 0.03 | 2.70 |
| 30 - 35 kts | 0.06 | 0.07 | 0.21 | 0.12 | 0.04 | 0.01 | • | 0.04 | 0.03 | 0.01 | 0.01 | 0.06 | 0.08 | 0.03 | 0.01 | • | 0.79 |
| 35 - 40 kts | 0.01 | • | 0.02 | 0.02 | 0.02 | 0.01 | • | 0.01 | 0.02 | • | • | 0.01 | • | • | • | 0.01 | 0.15 |
| 40 - 45 kts | • | • | 0.03 | • | 0.01 | • | 0.01 | • | • | • | • | • | • | • | • | • | 0.06 |
| 45 - 50 kts | 0.01 | • | • | 0.01 | • | • | 0.01 | 0.01 | • | • | • | • | • | • | • | • | 0.04 |
| Total | 6.06 | 6.60 | 6.99 | 4.49 | 3.90 | 3.23 | 2.75 | 3.79 | 4.87 | 7.88 | 8.16 | 8.14 | 8.36 | 8.96 | 8.75 | 7.06 | 100.00 |