

# Angola Namibia CRS Swakopmunds (BU-SW) - June

Latitude: 22.64 S Longitude: 13.12 E

## Weather Days

Wave Height > 5.0 ft Mean: 23.9 days Range: 21.4 - 26.4 days p50:23.5 days p75:22.5 days p90:21.5 days  
Wave Height > 6.5 ft Mean: 16.3 days Range: 13.2 - 19.4 days p50:16 days p75:14.5 days p90:13 days  
Wave Height > 8.0 ft Mean: 9.5 days Range: 6.7 - 12.4 days p50:9.5 days p75:7.5 days p90:6 days  
  
Wind Speed > 15.0 knots Mean: 11.4 days Range: 8.5 - 14.3 days p50:11.5 days p75:10 days p90:8.5 days  
Wind Speed > 20.0 knots Mean: 3.1 days Range: 1.6 - 4.6 days p50:3 days p75:2.5 days p90:1.5 days  
Wind Speed > 25.0 knots Mean: 0.2 days Range: 0.0 - 0.6 days p50:0.5 days p75:0.5 days p90:0.5 days

## Working Window

|                      |                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wave Height < 5.0 ft | A 1 day or longer window will statistically occur 0.4 times per month<br>A 2 day or longer window will statistically occur 0.1 times per month<br>A 3 day or longer window will statistically occur 0.0 times per month |
| Wave Height < 6.5 ft | A 1 day or longer window will statistically occur 1.9 times per month<br>A 2 day or longer window will statistically occur 1.0 times per month<br>A 3 day or longer window will statistically occur 0.3 times per month |
| Wave Height < 8.0 ft | A 1 day or longer window will statistically occur 3.8 times per month<br>A 2 day or longer window will statistically occur 2.3 times per month<br>A 3 day or longer window will statistically occur 1.3 times per month |

## Waves

Mean Height: 8 - 10 ft  
The wave heights will occasionally reach 16 - 18 ft, but rarely higher.  
Mean Period: 12 - 14 sec  
The wave periods will occasionally reach 18 - 20 sec, but rarely longer.  
Principle Direction, from: SW  
WindSea/Swell: 1% / 99%

## Winds

Mean Speed: 10 - 15 kts  
The winds will occasionally reach 25 - 30 kts, but rarely greater.  
Principle Direction, from: SSE

## Currents

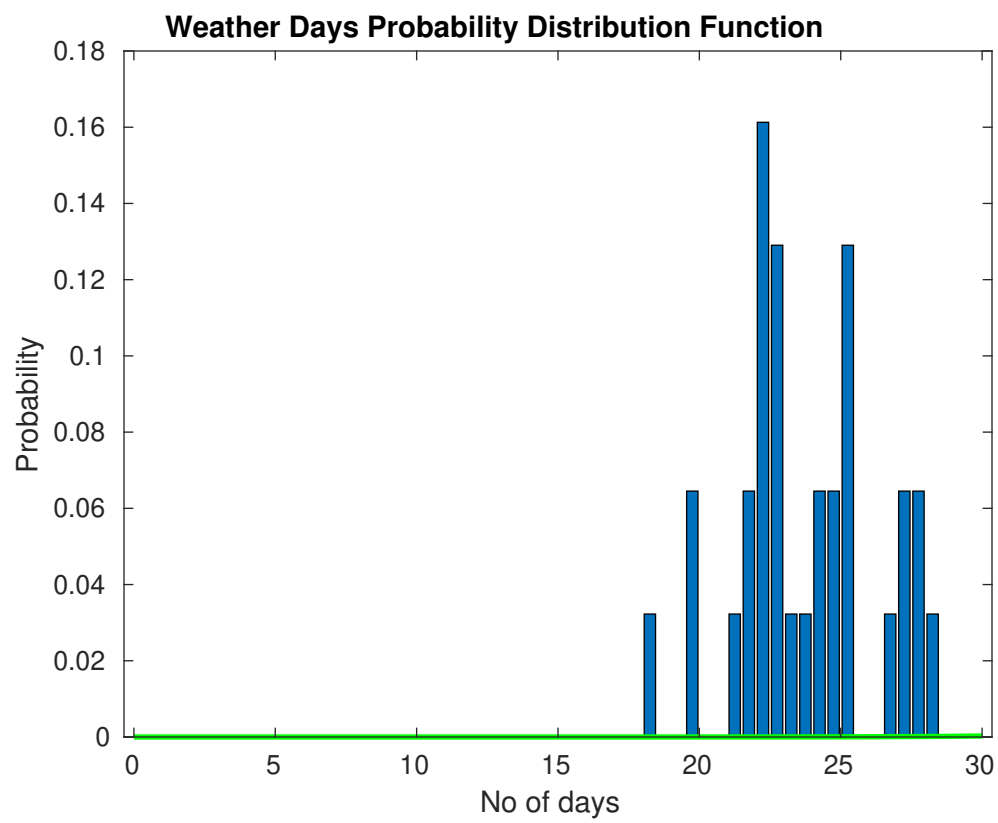
Mean Speed: 0.25-0.50 kts  
The currents will occasionally reach 0.75-1.00 kts, but rarely greater.  
Principle Direction, to: NW

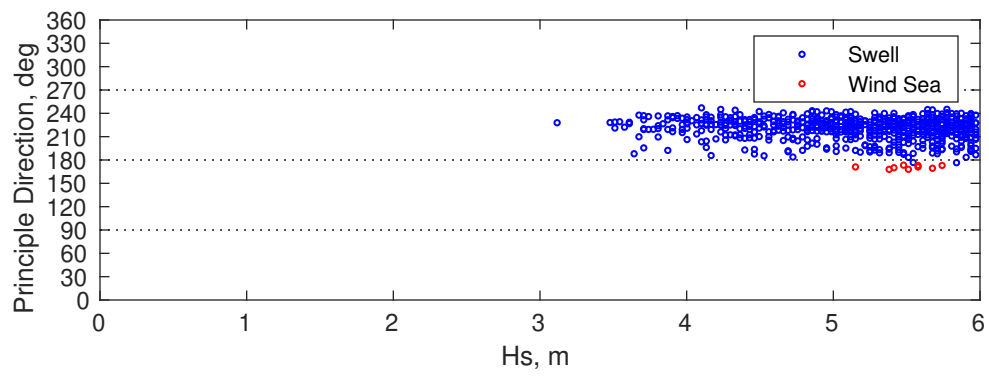
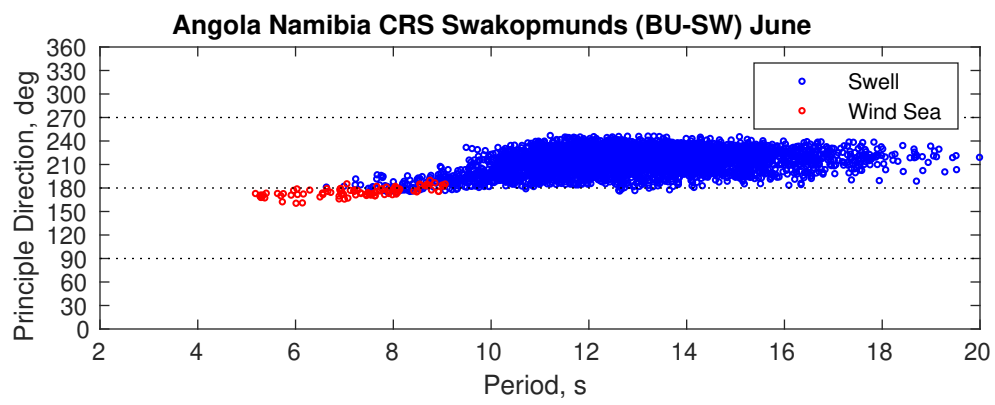
## Weather Days

Current Speed > 0.5 knots Mean: 3.2 days Range: 1.2 - 5.3 days p50:4 days p75:3 days p90:2 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

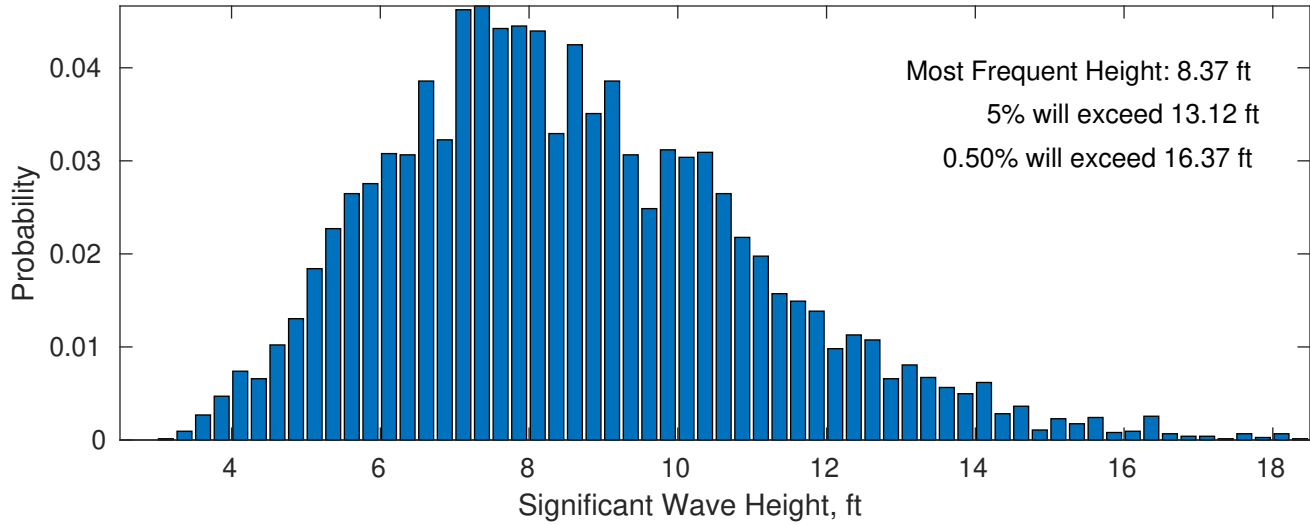
## Severe Storms

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

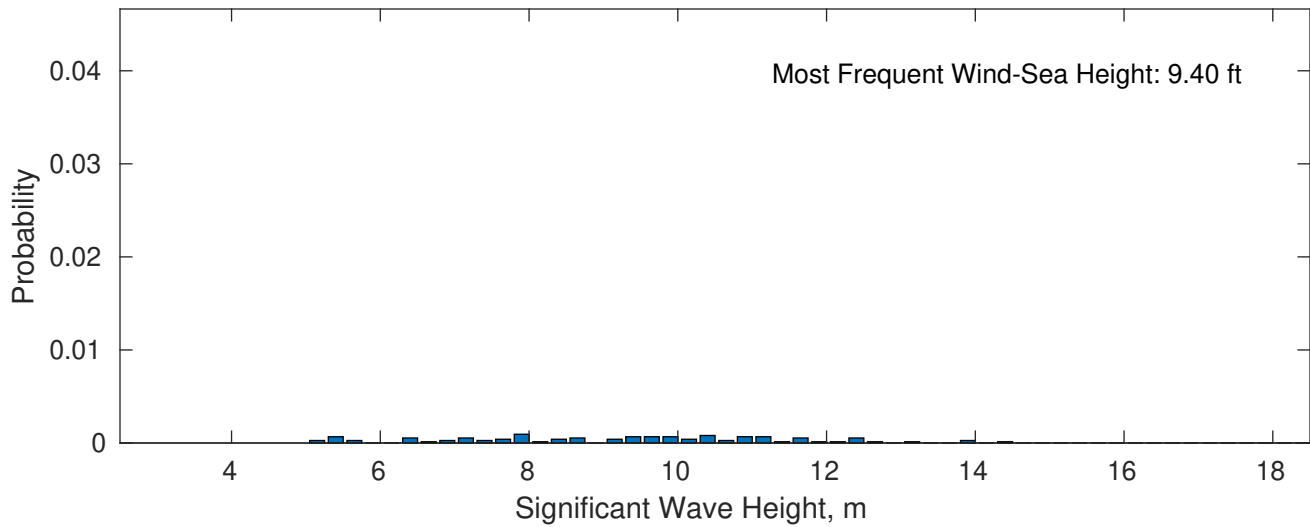




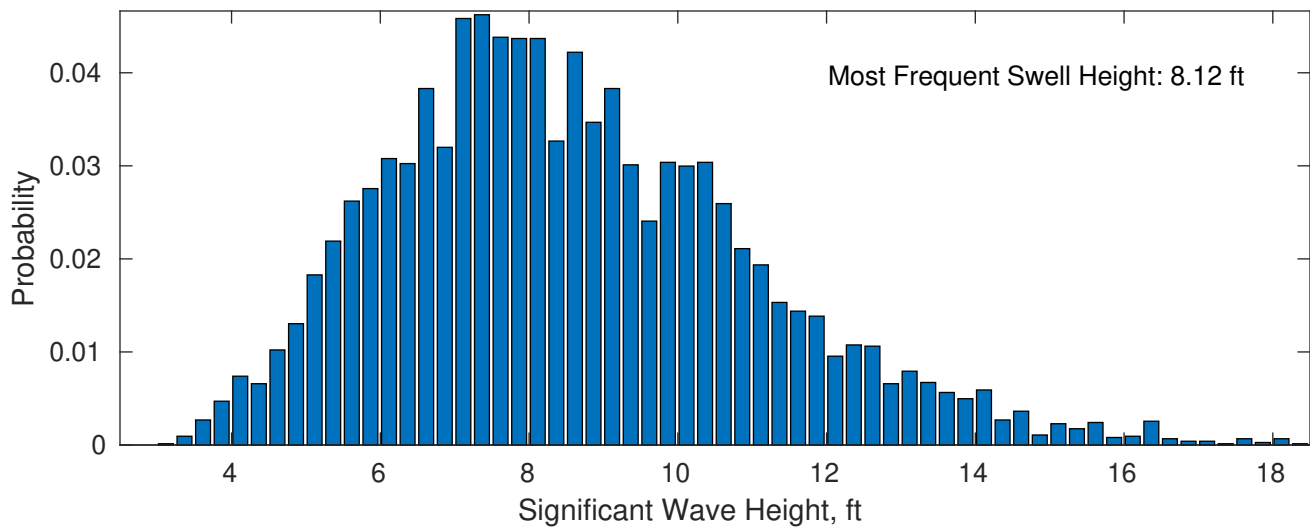
**June Wave Height PDF: 1979 - 2015**



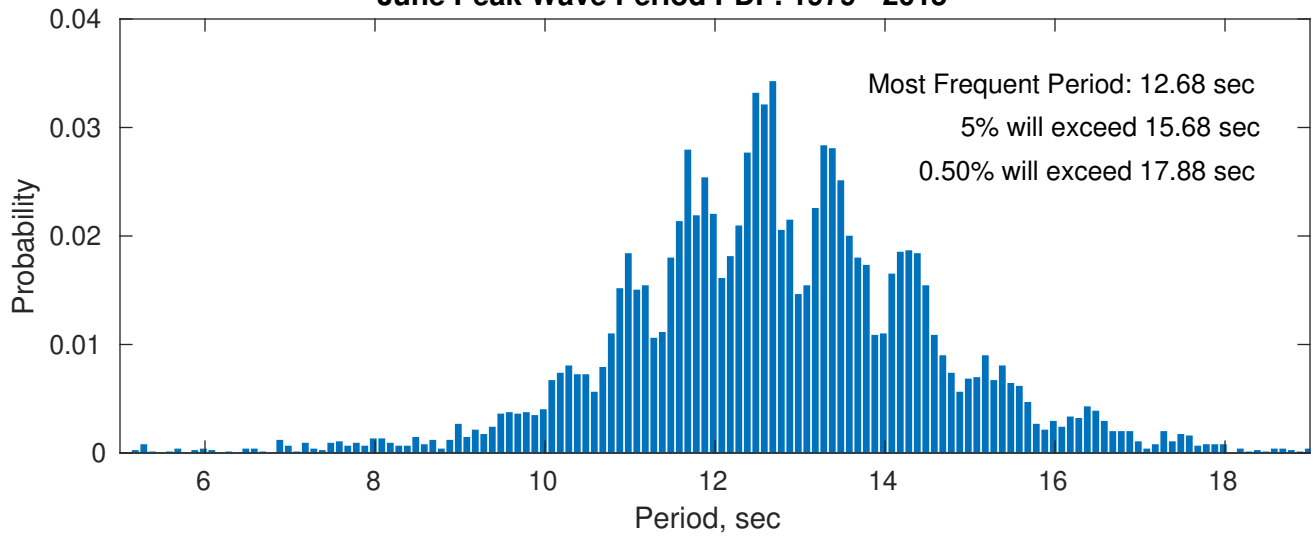
**Wind-Sea: 1.28%**



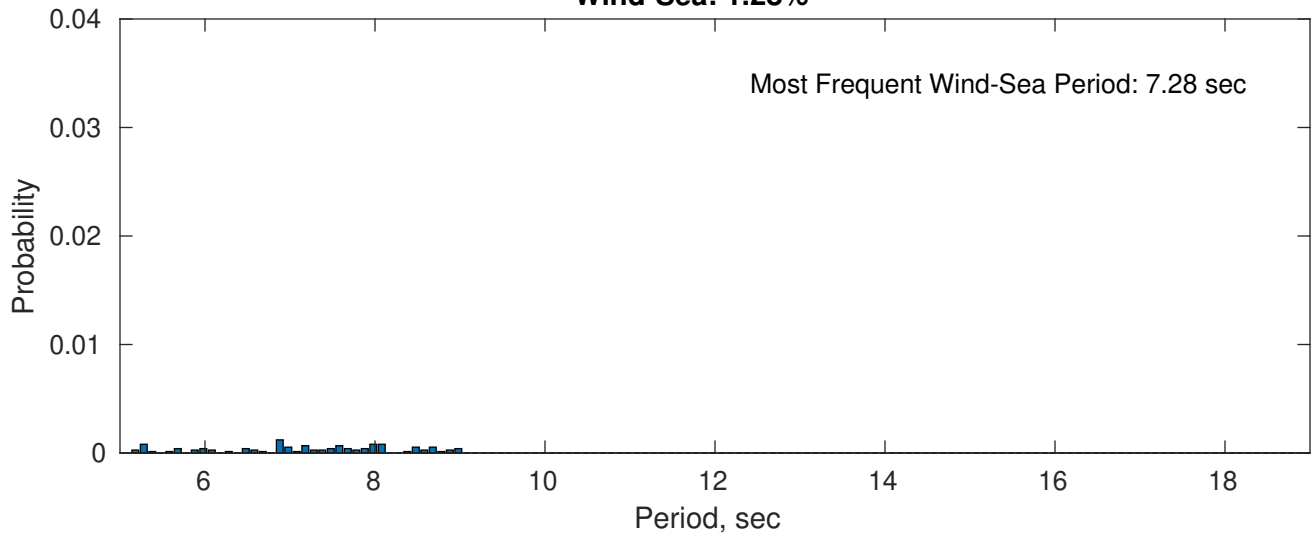
**Swell: 98.72%**



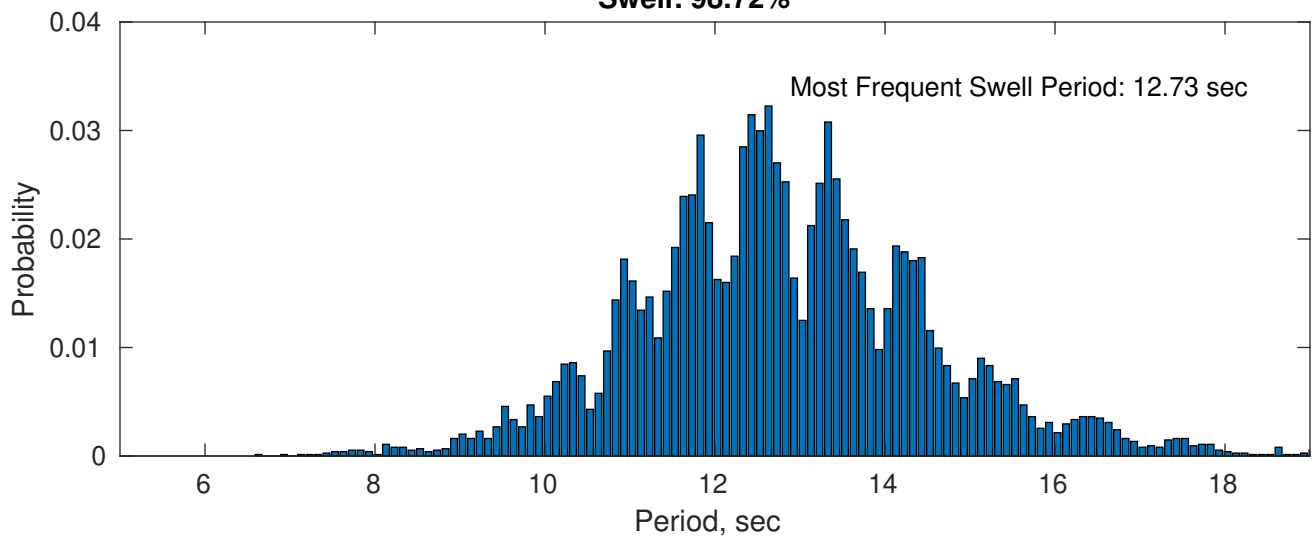
**June Peak Wave Period PDF: 1979 - 2015**



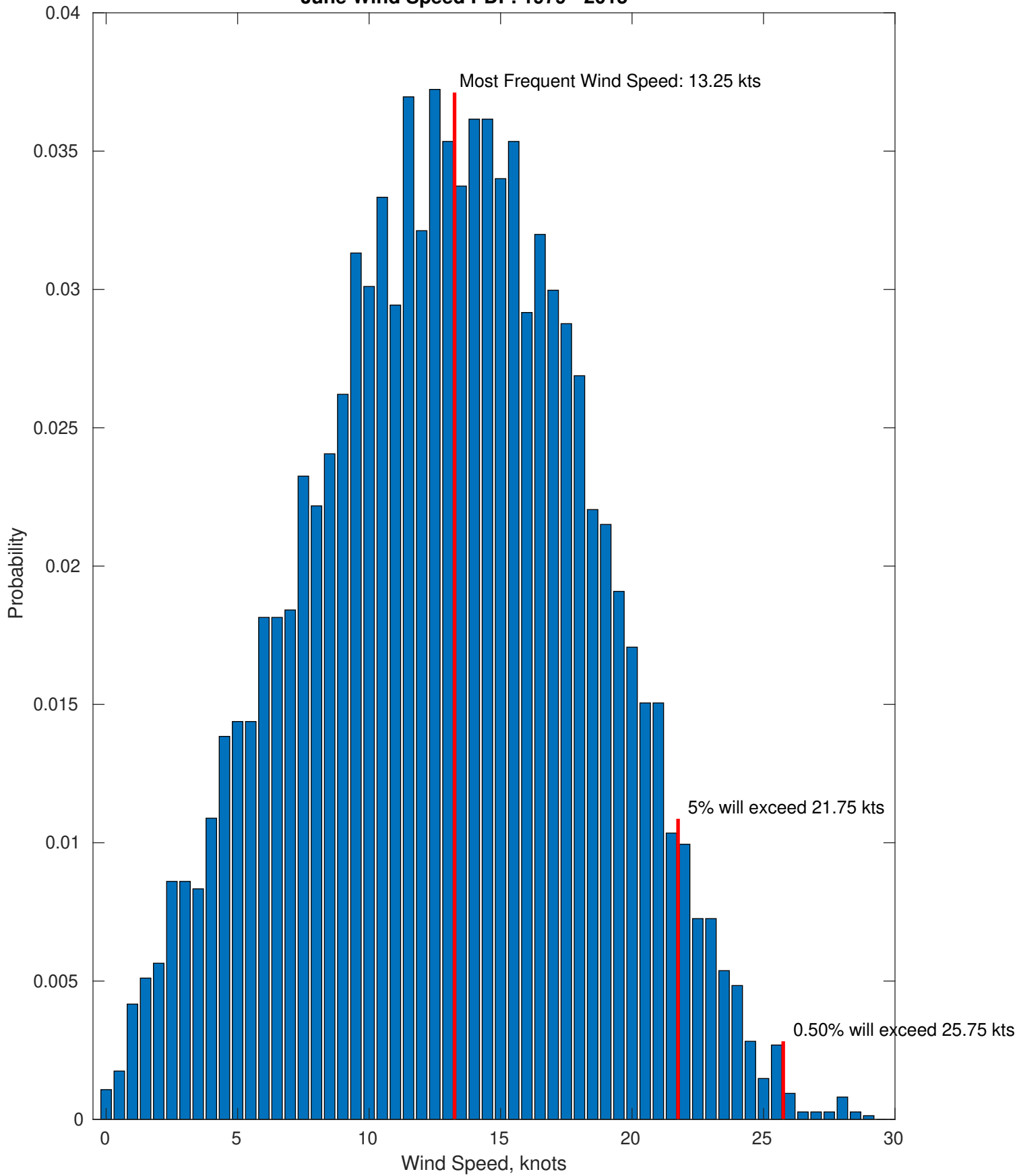
**Wind-Sea: 1.28%**



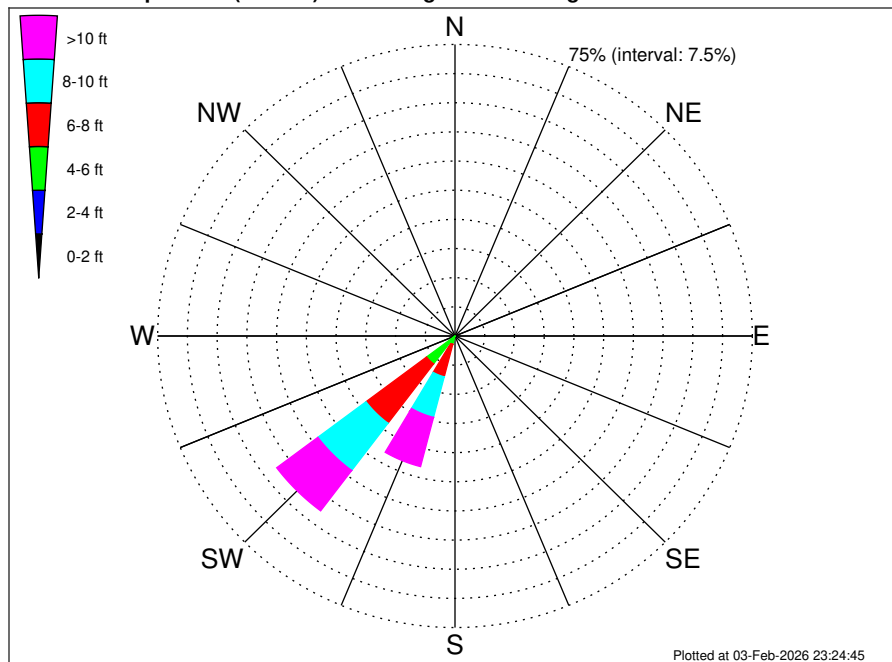
**Swell: 98.72%**



June Wind Speed PDF: 1979 - 2015



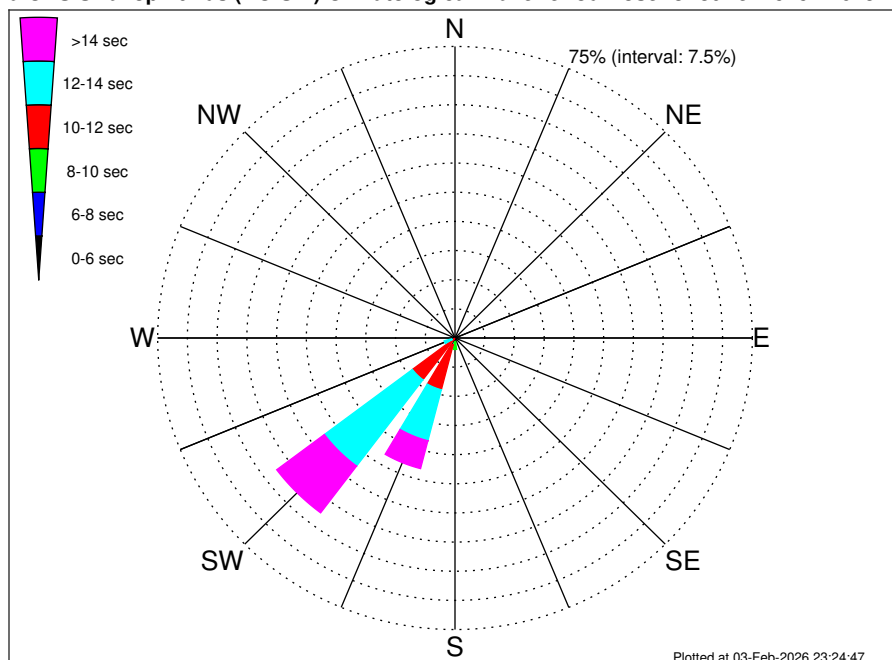
# Angola Namibia CRS Swakopmunds (BU-SW) Climatological WaveHeight Rose for June: 1979 - 2015



## 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   | • | •   | •  | •   | • | •   | •  | •    | 0.01 | 0.07  | 0.43  | 0.11 | • | •   | •  | •   | 0.62   |
| 4 - 6 ft   | • | •   | •  | •   | • | •   | •  | 0.03 | 0.43 | 2.14  | 8.55  | 0.82 | • | •   | •  | •   | 11.96  |
| 6 - 8 ft   | • | •   | •  | •   | • | •   | •  | 0.04 | 1.71 | 8.64  | 19.13 | 1.45 | • | •   | •  | •   | 30.97  |
| 8 - 10 ft  | • | •   | •  | •   | • | •   | •  | 0.04 | 1.49 | 10.78 | 15.22 | 0.89 | • | •   | •  | •   | 28.41  |
| 10 - 12 ft | • | •   | •  | •   | • | •   | •  | 0.03 | 1.26 | 8.06  | 8.53  | 0.15 | • | •   | •  | •   | 18.04  |
| 12 - 14 ft | • | •   | •  | •   | • | •   | •  | •    | 0.43 | 3.39  | 3.13  | 0.05 | • | •   | •  | •   | 7.00   |
| 14 - 16 ft | • | •   | •  | •   | • | •   | •  | •    | 0.04 | 1.26  | 0.95  | •    | • | •   | •  | •   | 2.26   |
| 16 - 18 ft | • | •   | •  | •   | • | •   | •  | •    | •    | 0.36  | 0.27  | •    | • | •   | •  | •   | 0.63   |
| > 18 ft    | • | •   | •  | •   | • | •   | •  | •    | •    | •     | 0.11  | •    | • | •   | •  | •   | 0.11   |
| Total      | • | •   | •  | •   | • | •   | •  | 0.13 | 5.38 | 34.70 | 56.32 | 3.47 | • | •   | •  | •   | 100.00 |

# Angola Namibia CRS Swakopmunds (BU-SW) Climatological WavePeriod Rose for June: 1979 - 2015

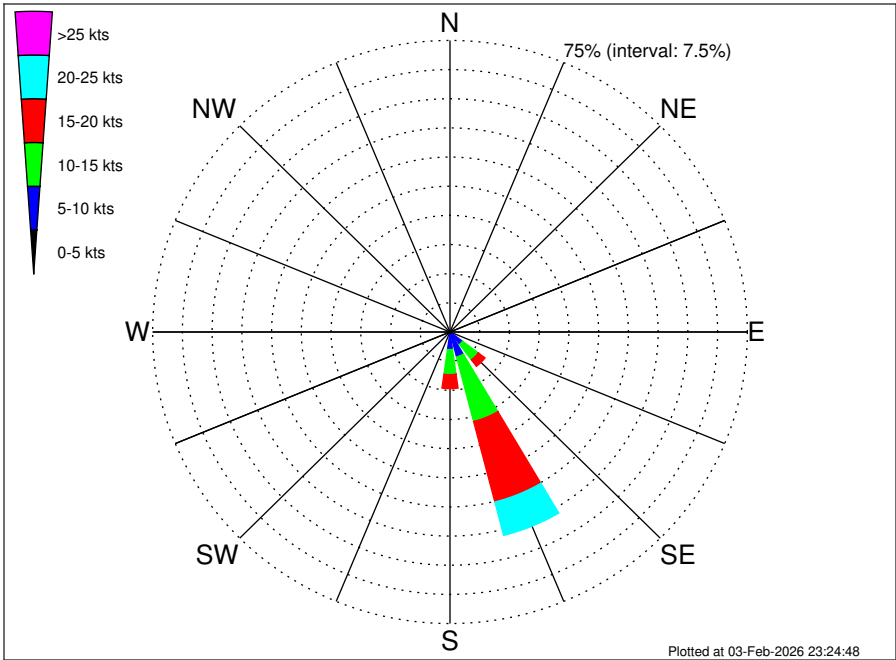


## Joint Frequency Distribution Table

|             | 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   | • | •   | •  | •   | • | •   | •  | 0.05 | 0.15 | •     | •     | •    | • | •   | •  | •   | 0.20   |
| 6 - 8 sec   | • | •   | •  | •   | • | •   | •  | 0.08 | 0.86 | 0.08  | •     | •    | • | •   | •  | •   | 1.02   |
| 8 - 10 sec  | • | •   | •  | •   | • | •   | •  | •    | 1.95 | 1.71  | 0.24  | •    | • | •   | •  | •   | 3.90   |
| 10 - 12 sec | • | •   | •  | •   | • | •   | •  | •    | 1.20 | 11.96 | 13.21 | 0.85 | • | •   | •  | •   | 27.22  |
| 12 - 14 sec | • | •   | •  | •   | • | •   | •  | •    | 0.93 | 13.55 | 27.81 | 1.98 | • | •   | •  | •   | 44.26  |
| 14 - 16 sec | • | •   | •  | •   | • | •   | •  | •    | 0.20 | 6.12  | 12.20 | 0.51 | • | •   | •  | •   | 19.03  |
| 18 - 20 sec | • | •   | •  | •   | • | •   | •  | •    | 0.08 | 1.20  | 2.50  | 0.13 | • | •   | •  | •   | 3.91   |
| 22 - 24 sec | • | •   | •  | •   | • | •   | •  | •    | 0.01 | 0.09  | 0.35  | •    | • | •   | •  | •   | 0.46   |
| Total       | • | •   | •  | •   | • | •   | •  | 0.13 | 5.38 | 34.70 | 56.32 | 3.47 | • | •   | •  | •   | 100.00 |



Angola Namibia CRS Swakopmunds (BU-SW) 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        | 0.04 | 0.04 | •    | •    | •    | 0.01 | 0.05  | 0.05  | 0.03  | 0.01 | •    | •    | 0.01 | 0.01 | 0.01 | •    | 0.28   |
| 0 - 5 kts   | 0.16 | 0.20 | 0.39 | 0.47 | 0.42 | 0.71 | 0.78  | 0.77  | 0.78  | 0.54 | 0.43 | 0.31 | 0.13 | 0.13 | 0.13 | 0.16 | 6.52   |
| 5 - 10 kts  | 0.19 | 0.32 | 0.85 | 1.33 | 1.09 | 1.67 | 3.15  | 5.81  | 3.72  | 1.36 | 0.40 | 0.35 | 0.20 | 0.19 | 0.23 | 0.20 | 21.05  |
| 10 - 15 kts | 0.05 | 0.16 | 0.50 | 0.97 | 0.74 | 1.33 | 4.97  | 17.15 | 6.44  | 1.17 | 0.20 | 0.12 | 0.05 | 0.04 | 0.01 | 0.15 | 34.06  |
| 15 - 20 kts | •    | •    | 0.11 | 0.19 | 0.07 | 0.24 | 2.11  | 21.40 | 3.60  | 0.13 | 0.03 | •    | •    | •    | •    | •    | 27.88  |
| 20 - 25 kts | •    | •    | 0.01 | 0.01 | •    | 0.01 | 0.16  | 8.87  | 0.42  | 0.01 | •    | •    | •    | •    | •    | •    | 9.50   |
| 25 - 30 kts | •    | •    | •    | •    | •    | •    | •     | 0.71  | •     | •    | •    | •    | •    | •    | •    | •    | 0.71   |
| 30 - 35 kts | •    | •    | •    | •    | •    | •    | •     | •     | •     | •    | •    | •    | •    | •    | •    | •    | •      |
| 35 - 40 kts | •    | •    | •    | •    | •    | •    | •     | •     | •     | •    | •    | •    | •    | •    | •    | •    | •      |
| 40 - 45 kts | •    | •    | •    | •    | •    | •    | •     | •     | •     | •    | •    | •    | •    | •    | •    | •    | •      |
| 45 - 50 kts | •    | •    | •    | •    | •    | •    | •     | •     | •     | •    | •    | •    | •    | •    | •    | •    | •      |
| Total       | 0.44 | 0.73 | 1.85 | 2.97 | 2.31 | 3.98 | 11.22 | 54.76 | 14.99 | 3.23 | 1.06 | 0.78 | 0.40 | 0.38 | 0.39 | 0.51 | 100.00 |