

# PENRHYN, Cook Islands

## Annual Climatic Design Data (1986–2018)

| Latitude | Longitude | Elevation m | Standard Station<br>Pressure kPa | Winter<br>Temperature °C | Summer<br>Temperature °C | Extreme Wind<br>Speed m/s | Extreme Wind<br>Direction |
|----------|-----------|-------------|----------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 9.017S   | 158.031W  | 1           | 101.31                           | 24.5                     | 32.8                     | 11.0                      | E                         |

## Monthly Winds (1986–2018)

|       | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| %CALM | 2   | 1   | 8   | 4   | 4   | 2   | 10  | 1   | 1   | 2   | 3   | 1   |

### Prevailing Wind #1

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | ENE | ENE | E   | E   | E   | E   | E   | E   | E   | E   | ENE | NE  |
| %OCC    | 23  | 21  | 30  | 36  | 44  | 41  | 38  | 36  | 43  | 31  | 21  | 24  |
| AVG m/s | 5.4 | 5.0 | 5.6 | 6.0 | 6.6 | 6.7 | 5.9 | 5.9 | 6.3 | 6.5 | 4.3 | 4.1 |
| MED m/s | 4.7 | 4.9 | 5.9 | 6.7 | 7.2 | 7.2 | 6.3 | 6.1 | 6.9 | 7.1 | 3.4 | 3.2 |

### Prevailing Wind #2

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | NE  | E   | ENE | ENE | ESE | ESE | ESE | ESE | ESE | ENE | E   | ENE |
| %OCC    | 19  | 19  | 22  | 16  | 18  | 19  | 23  | 19  | 21  | 21  | 20  | 18  |
| AVG m/s | 5.7 | 6.0 | 4.4 | 3.7 | 6.5 | 6.1 | 5.6 | 5.4 | 5.4 | 5.0 | 5.3 | 3.6 |
| MED m/s | 5.9 | 6.7 | 3.9 | 2.6 | 7.2 | 6.6 | 5.1 | 4.7 | 4.8 | 5.1 | 5.6 | 3.0 |

### Prevailing Wind #3

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | E   | NE  | ESE | ESE | ENE | ENE | ENE | ENE | ENE | NE  | NE  | NNE |
| %OCC    | 18  | 18  | 10  | 13  | 12  | 11  | 14  | 18  | 16  | 17  | 19  | 15  |
| AVG m/s | 6.7 | 5.1 | 5.1 | 5.7 | 4.8 | 4.4 | 3.7 | 4.3 | 5.2 | 5.2 | 4.2 | 4.5 |
| MED m/s | 7.5 | 5.2 | 5.0 | 6.2 | 5.0 | 3.4 | 2.7 | 3.5 | 5.0 | 5.5 | 3.7 | 3.4 |

### Prevailing Wind #4

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | NNE | NNE | NE  | NE  | NE  | SE  | NE  | NE  | SE  | ESE | NNE | N   |
| %OCC    | 10  | 10  | 9   | 10  | 7   | 8   | 5   | 9   | 6   | 8   | 9   | 12  |
| AVG m/s | 5.9 | 5.4 | 4.4 | 3.8 | 4.8 | 5.8 | 4.3 | 4.1 | 5.6 | 6.1 | 4.5 | 5.0 |
| MED m/s | 6.4 | 5.5 | 4.1 | 2.9 | 5.1 | 6.0 | 3.5 | 3.3 | 5.3 | 6.6 | 4.7 | 4.9 |