

# APIA WHARF, Samoa

## Annual Climatic Design Data (1998–2011)

| 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 |
|----------|-----------|-------------|----------------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| 13.826S  | 171.761W  | 3           | 101.29                           | 21.8                     | 31.2                     | 7.8                       | E                         |

## Monthly Winds (1998–2011)

|       | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| %CALM | 8   | 7   | 15  | 6   | 5   | 4   | 5   | 4   | 7   | 7   | 8   | 7   |

### Prevailing Wind #1

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | SSE | SSE | SSE | SSE | SSE | E   | E   | E   | E   | E   | E   | SSE |
| %OCC    | 13  | 16  | 15  | 16  | 16  | 24  | 24  | 27  | 29  | 24  | 17  | 16  |
| AVG m/s | 1.8 | 1.9 | 1.9 | 1.8 | 1.8 | 4.4 | 4.5 | 4.7 | 4.7 | 4.6 | 4.2 | 1.9 |
| MED m/s | 1.8 | 1.9 | 1.9 | 1.8 | 1.8 | 4.4 | 4.4 | 4.6 | 4.7 | 4.5 | 4.1 | 1.8 |

### Prevailing Wind #2

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | ENE | ENE | ENE | ENE | E   | SSE | ENE | ENE | ENE | ENE | SSE | ENE |
| %OCC    | 12  | 13  | 10  | 14  | 16  | 15  | 15  | 18  | 19  | 18  | 16  | 14  |
| AVG m/s | 3.7 | 3.6 | 3.8 | 4.1 | 4.0 | 1.8 | 4.4 | 4.7 | 4.8 | 4.6 | 1.8 | 3.9 |
| MED m/s | 3.5 | 3.5 | 3.5 | 3.9 | 3.9 | 1.8 | 4.3 | 4.8 | 4.8 | 4.6 | 1.8 | 3.8 |

### Prevailing Wind #3

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | SE  | SE  | SE  | E   | ENE | ENE | SSE | SSE | ESE | SSE | ENE | E   |
| %OCC    | 10  | 11  | 9   | 12  | 14  | 15  | 15  | 13  | 12  | 12  | 16  | 13  |
| AVG m/s | 1.8 | 1.8 | 1.9 | 4.1 | 4.0 | 4.4 | 1.9 | 1.9 | 2.9 | 1.8 | 4.1 | 3.7 |
| MED m/s | 1.9 | 1.8 | 1.9 | 3.9 | 3.9 | 4.4 | 1.9 | 1.9 | 2.7 | 1.8 | 4.0 | 3.6 |

### Prevailing Wind #4

|         |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIR     | E   | E   | E   | SE  | SE  | SE  | ESE | ESE | SSE | ESE | SE  | SE  |
| %OCC    | 9   | 11  | 8   | 12  | 14  | 13  | 12  | 12  | 11  | 10  | 11  | 11  |
| AVG m/s | 3.8 | 3.6 | 3.8 | 1.9 | 1.9 | 1.8 | 3.0 | 2.8 | 1.8 | 2.7 | 1.8 | 1.8 |
| MED m/s | 3.5 | 3.5 | 3.4 | 1.9 | 1.9 | 1.8 | 2.9 | 2.7 | 1.8 | 2.5 | 1.8 | 1.8 |