# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Monday 1st October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 988.0 | 989.1 | 991.2 | 991.8 | 991.9 | 991.7 | 993.1 | 995.3 | 996.0 | 992.0 |
| Wind Speed | 6.9 | 8.0 | 7.0 | 8.3 | 10.9 | 11.1 | 13.0 | 13.0 | 9.7 | 9.8 |
| Wind Direction | 240 | 260 | 240 | 250 | 260 | 260 | 260 | 260 | 250 | |
| Highest Gust | | 35.7 | 24.3 | 26.0 | 40.6 | 38.1 | 45.4 | 35.7 | 37.3 | |
| in interval | | 127 | 301 | 844 | 1050 | 1401 | 1544 | 1853 | 2102 | |
| | | W | WSW | WSW | W | W | W | W | WSW | |
| Dry-bulb Temperature | 12.1 | 13.2 | 13.3 | 14.0 | 15.9 | 16.3 | 14.6 | 14.3 | 14.0 | 14.2 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | 0.0 | trace | trace | 0.0 | trace | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.8 | 0.0 | 1.0 | 0.2 | 0.0 | 0.3 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 80.0 | 80.3 | 75.5 | 65.2 | 64.9 | 71.9 | 71.2 | 73.1 | 75.8 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.2 | 2.5 | 2.4 | 1.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 16.7 |
| Duration (hrs) | 0.5 | Minimum | 13.5 |
| 1st Day of Month to Date (mm) | trace | Grass Minimum | 8.2 |
| | | Total Sunshine | 6.3 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 996.0 |
| Minimum Pressure - | 987.5 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** **Tuesday 2nd October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 996.5 | 996.7 | 995.7 | 996.9 | 997.5 | 997.9 | 999.5 | 1001.7 | 1002.5 | 998.3 |
| Wind Speed | 8.4 | 4.7 | 10.7 | 5.5 | 8.7 | 8.3 | 6.5 | 6.4 | 3.4 | 7.0 |
| Wind Direction | 260 | 210 | 250 | 240 | 260 | 250 | 250 | 250 | 240 | |
| Highest Gust | | 29.2 | 27.6 | 30.8 | 27.6 | 29.2 | 27.6 | 24.3 | 18.7 | |
| in interval | | 42 | 556 | 633 | 1101 | 1209 | 1539 | 1851 | 2124 | |
| | | SSW | WSW | WSW | W | WSW | WSW | WSW | WSW | |
| Dry-bulb Temperature | 14.1 | 14.0 | 14.0 | 14.5 | 15.4 | 15.4 | 14.3 | 13.4 | 12.4 | 14.2 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | trace | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 73.1 | 71.3 | 69.2 | 69.6 | 60.9 | 60.4 | 68.7 | 79.7 | 88.9 | 71.3 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.5 | 2.0 | 1.5 | 1.9 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 16.1 |
| Duration (hrs) | 0.7 | Minimum | 11.2 |
| 1st Day of Month to Date (mm) | 0.0 | Grass Minimum | 6.1 |
| | | Total Sunshine | 5.9 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1002.5 |
| Minimum Pressure - | 995.2 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** **Wednesday 3rd October 2001**

| Hours Interval | 0 - | 3 0-3 | 6 3-6 | 9 6-9 | 12 9-12 | 15 12-15 | 18 15-18 | 21 18-21 | 24 21-24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1002.2 | 1003.2 | 1003.8 | 1006.1 | 1007.6 | 1007.7 | 1008.0 | 1009.1 | 1009.4 | 1006.3 |
| Wind Speed | 4.3 | 4.8 | 5.7 | 3.2 | 9.4 | 5.4 | 4.2 | 3.5 | 7.1 | 5.3 |
| Wind Direction | 250 | 250 | 260 | 250 | 280 | 300 | 250 | 240 | 280 | |
| Highest Gust | | 14.6 | 15.4 | 17.0 | 26.0 | 24.3 | 20.3 | 19.5 | 25.1 | |
| in interval | | 2350 | 551 | 715 | 1130 | 1202 | 1537 | 1933 | 2344 | |
| | | WSW | W | WSW | W | WNW | WSW | WSW | W | |
| Dry-bulb Temperature | 12.3 | 11.6 | 11.6 | 13.3 | 14.3 | 14.6 | 13.7 | 13.1 | 13.1 | 13.1 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 89.5 | 83.0 | 81.7 | 78.2 | 72.3 | 72.7 | 77.3 | 80.5 | 73.2 | 78.7 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.2 | 1.0 | 1.0 | 0.5 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | 0.0 | Maximum | 15.7 |
| Duration (hrs) | 0.0 | Minimum | 11.0 |
| 1st Day of Month to Date (mm) | 0.0 | Grass Minimum | 5.7 |
| | | Total Sunshine | 2.7 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1009.7 |
| Minimum Pressure - | 1002.2 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Thursday 4th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1009.5 | 1010.1 | 1010.2 | 1010.7 | 1010.7 | 1009.1 | 1008.0 | 1007.3 | 1005.2 | 1009.0 |
| Wind Speed | 7.7 | 2.3 | 2.7 | 2.4 | 2.6 | 2.5 | 3.3 | 5.2 | 4.9 | 3.7 |
| Wind Direction | 280 | 270 | 230 | 200 | 200 | 220 | 160 | 150 | 150 | |
| Highest Gust | | 23.5 | 13.8 | 13.8 | 13.8 | 17.8 | 14.6 | 13.0 | 17.8 | |
| in interval | | 2351 | 321 | 656 | 941 | 1407 | 1542 | 1826 | 2239 | |
| | | W | SW | SSW | SSW | SW | SSE | SSE | SSE | |
| Dry-bulb Temperature | 13.1 | 12.4 | 11.2 | 13.0 | 13.9 | 16.0 | 14.0 | 12.3 | 12.4 | 13.1 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | trace | 0.0 | 0.0 | trace | trace | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 2.0 | 2.7 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 74.7 | 81.4 | 83.5 | 83.8 | 100.0 | 69.5 | 85.9 | 100.0 | 100.0 | 86.5 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.2 | 0.0 | 1.2 | 0.0 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 16.4 |
| Duration (hrs) | 10.5 | Minimum | 12.1 |
| 1st Day of Month to Date (mm) | 0.0 | Grass Minimum | 8.5 |
| | | Total Sunshine | 1.4 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1010.7 |
| Minimum Pressure - | 1005.2 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Friday 5th October 2001**

| Hours Interval | 0 - | 3 0-3 | 6 3-6 | 9 6-9 | 12 9-12 | 15 12-15 | 18 15-18 | 21 18-21 | 24 21-24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1004.8 | 1002.6 | 1001.5 | 1001.6 | 1000.9 | 998.9 | 996.2 | 995.0 | 995.8 | 999.7 |
| Wind Speed | 5.7 | 5.9 | 6.3 | 5.6 | 9.8 | 14.5 | 14.8 | 11.9 | 7.9 | 9.2 |
| Wind Direction | 150 | 170 | 160 | 170 | 190 | 170 | 170 | 150 | 260 | |
| Highest Gust | | 20.3 | 20.3 | 18.7 | 21.1 | 29.2 | 30.0 | 34.1 | 24.3 | |
| in interval | | 228 | 356 | 624 | 1143 | 1214 | 1718 | 1813 | 2115 | |
| | | S | SSE | S | S | S | S | SSE | W | |
| Dry-bulb Temperature | 12.4 | 12.9 | 12.5 | 14.2 | 16.3 | 16.9 | 15.8 | 14.7 | 13.4 | 14.3 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | trace | trace | 0.0 | 0.0 | 0.0 | trace | trace | |
| Duration of Rain (hrs) | | 1.2 | 1.8 | 1.7 | 0.0 | 0.0 | 0.0 | 0.8 | 2.5 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 87.1 | 66.9 | 66.8 | 80.9 | 100.0 | 89.1 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.4 | 0.9 | 1.9 | 0.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 17.4 |
| Duration (hrs) | 3.5 | Minimum | 9.9 |
| 1st Day of Month to Date (mm) | 0.0 | Grass Minimum | 6.4 |
| | | Total Sunshine | 3.4 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1004.8 |
| Minimum Pressure - | 994.4 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Saturday 6th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 995.9 | 997.3 | 998.1 | 998.3 | 996.9 | 994.9 | 994.7 | 994.5 | 995.2 | 996.2 |
| Wind Speed | 9.1 | 11.1 | 8.0 | 8.0 | 12.0 | 11.2 | 13.3 | 13.6 | 10.3 | 10.7 |
| Wind Direction | 260 | 200 | 160 | 160 | 170 | 200 | 180 | 180 | 180 | |
| Highest Gust | | 20.3 | 16.2 | 24.3 | 28.4 | 26.8 | 27.6 | 25.1 | 23.5 | |
| in interval | | 249 | 305 | 822 | 1123 | 1409 | 1513 | 1821 | 2131 | |
| | | SSW | SSE | SSE | S | SSW | S | S | S | |
| Dry-bulb Temperature | 13.1 | 11.5 | 10.1 | 11.9 | 14.8 | 17.0 | 14.0 | 12.3 | 11.8 | 12.9 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | 0.0 | 0.0 | 0.0 | 0.0 | trace | trace | trace | |
| Duration of Rain (hrs) | | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0.7 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 83.7 | 57.6 | 74.9 | 100.0 | 100.0 | 90.7 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 1.4 | 1.9 | 2.2 | 0.9 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 17.1 |
| Duration (hrs) | 1.7 | Minimum | 10.3 |
| 1st Day of Month to Date (mm) | 0.0 | Grass Minimum | 7.6 |
| | | Total Sunshine | 6.4 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 998.7 |
| Minimum Pressure - | 994.3 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Sunday 7th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 995.1 | 994.7 | 994.1 | 993.5 | 990.0 | 982.3 | 975.1 | 971.7 | 974.8 | 985.7 |
| Wind Speed | 9.9 | 8.3 | 10.5 | 11.0 | 11.8 | 15.4 | 15.1 | 17.4 | 8.7 | 12.0 |
| Wind Direction | 180 | 160 | 170 | 170 | 160 | 120 | 140 | 150 | 230 | |
| Highest Gust | | 18.7 | 19.5 | 23.5 | 24.3 | 30.0 | 35.7 | 30.0 | 39.7 | |
| in interval | | 33 | 557 | 855 | 1139 | 1226 | 1538 | 1842 | 2127 | |
| | | SSE | S | S | SSE | ESE | SE | SSE | SW | |
| Dry-bulb Temperature | 11.8 | 10.6 | 10.6 | 12.8 | 14.0 | 11.9 | 12.4 | 9.4 | 10.3 | 11.5 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | trace | trace | 0.0 | trace | trace | trace | trace | |
| Duration of Rain (hrs) | | 0.3 | 0.2 | 0.2 | 0.0 | 1.2 | 3.0 | 2.0 | 0.8 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 75.5 | 100.0 | 100.0 | 100.0 | 100.0 | 97.3 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 1.0 | 2.4 | 0.0 | 0.0 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 14.3 |
| Duration (hrs) | 10.3 | Minimum | 8.8 |
| 1st Day of Month to Date (mm) | 0.0 | Grass Minimum | 6.5 |
| | | Total Sunshine | 3.4 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 995.2 |
| Minimum Pressure - | 970.2 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Monday 8th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 975.1 | 981.5 | 986.6 | 989.6 | 991.0 | 991.9 | 993.7 | 995.8 | 996.4 | 989.1 |
| Wind Speed | 9.6 | 24.5 | 14.9 | 10.5 | 15.0 | 12.8 | 12.3 | 18.2 | 15.6 | 14.8 |
| Wind Direction | 230 | 270 | 260 | 260 | 260 | 280 | 270 | 280 | 280 | |
| Highest Gust | | 51.9 | 39.7 | 26.8 | 25.1 | 22.7 | 25.1 | 30.8 | 35.7 | |
| in interval | | 50 | 326 | 704 | 1008 | 1420 | 1524 | 2015 | 2337 | |
| | | W | W | W | W | W | W | W | W | |
| Dry-bulb Temperature | 10.4 | 10.6 | 11.0 | 12.2 | 14.3 | 14.2 | 12.5 | 11.8 | 11.0 | 12.0 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | trace | 0.0 | 0.0 | 0.0 | 0.0 | trace | trace | |
| Duration of Rain (hrs) | | 3.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 2.7 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 92.3 | 79.8 | 64.4 | 70.1 | 75.4 | 95.0 | 100.0 | 86.3 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 1.9 | 2.9 | 1.5 | 1.7 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 14.8 |
| Duration (hrs) | 8.5 | Minimum | 10.8 |
| 1st Day of Month to Date (mm) | 0.0 | Grass Minimum | 6.8 |
| | | Total Sunshine | 8.0 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 996.4 |
| Minimum Pressure - | 975.1 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Tuesday 9th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 996.5 | 999.3 | 1002.6 | 1006.7 | 1010.1 | 1012.3 | 1015.0 | 1017.0 | 1017.6 | 1008.6 |
| Wind Speed | 15.6 | 18.0 | 19.0 | 20.4 | 16.1 | 15.4 | 13.3 | 8.2 | 7.8 | 14.9 |
| Wind Direction | 290 | 300 | 310 | 310 | 310 | 300 | 290 | 270 | 250 | |
| Highest Gust | | 34.1 | 34.9 | 34.9 | 34.1 | 30.8 | 26.0 | 23.5 | 15.4 | |
| in interval | | 3 | 402 | 720 | 1018 | 1310 | 1514 | 1802 | 2125 | |
| | | WNW | NW | NW | NW | WNW | WNW | W | WSW | |
| Dry-bulb Temperature | 11.1 | 11.8 | 11.9 | 12.2 | 12.1 | 13.6 | 12.6 | 11.6 | 11.1 | 12.0 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | trace | trace | trace | 0.2 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 2.5 | 1.8 | 0.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 85.0 | 87.1 | 87.8 | 94.4 | 94.9 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.0 | 2.2 | 0.5 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | 0.2 | Maximum | 15.0 |
| Duration (hrs) | 1.8 | Minimum | 10.9 |
| 1st Day of Month to Date (mm) | 0.2 | Grass Minimum | 5.4 |
| | | Total Sunshine | 2.7 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1017.6 |
| Minimum Pressure - | 996.5 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Wednesday 10th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1017.7 | 1017.8 | 1017.6 | 1017.9 | 1019.5 | 1021.1 | 1023.3 | 1025.0 | 1025.0 | 1020.5 |
| Wind Speed | 6.4 | 6.8 | 11.1 | 14.2 | 14.9 | 13.3 | 4.0 | 4.6 | 8.3 | 9.3 |
| Wind Direction | 250 | 250 | 250 | 260 | 280 | 320 | 250 | 180 | 170 | |
| Highest Gust | | 15.4 | 22.7 | 27.6 | 32.4 | 24.3 | 20.3 | 7.3 | 13.0 | |
| in interval | | 248 | 533 | 852 | 1124 | 1313 | 1518 | 1815 | 2307 | |
| | | WSW | WSW | W | W | NW | WSW | S | S | |
| Dry-bulb Temperature | 11.3 | 12.4 | 13.2 | 15.0 | 14.4 | 13.3 | 11.4 | 11.5 | 11.5 | 12.7 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | trace | trace | trace | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.8 | 2.7 | 2.2 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 92.2 | 89.7 | 88.8 | 88.1 | -99999.0 | -99999.0 | -99999.0 | -99999.0 | -99999.0 | -55515.1 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.4 | 0.4 | 0.0 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 16.4 |
| Duration (hrs) | 5.7 | Minimum | 10.5 |
| 1st Day of Month to Date (mm) | 0.2 | Grass Minimum | 5.0 |
| | | Total Sunshine | 0.8 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1025.1 |
| Minimum Pressure - | 1017.5 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** **Thursday 11th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1025.0 | 1023.9 | 1023.9 | 1024.5 | 1024.8 | 1023.1 | 1023.5 | 1024.1 | 1023.0 | 1024.0 |
| Wind Speed | 8.3 | 6.0 | 4.6 | 11.2 | 6.4 | 12.4 | 6.7 | 8.0 | 14.2 | 8.6 |
| Wind Direction | 170 | 230 | 260 | 270 | 260 | 260 | 270 | 210 | 220 | |
| Highest Gust | | 15.4 | 17.0 | 23.5 | 23.5 | 23.5 | 26.8 | 15.4 | 21.9 | |
| in interval | | 221 | 406 | 630 | 901 | 1422 | 1612 | 2049 | 2341 | |
| | | SW | W | W | W | W | W | SSW | SW | |
| Dry-bulb Temperature | 11.4 | 12.1 | 13.6 | 15.7 | 17.8 | 18.9 | 16.6 | 16.7 | 15.6 | 15.4 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | -99999.0 | -99999.0 | 91.6 | 87.4 | 80.7 | 76.6 | 90.5 | 90.2 | 87.8 | -22154.8 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 1.0 | 3.0 | 2.9 | 1.7 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | 0.0 | Maximum | 18.9 |
| Duration (hrs) | 0.0 | Minimum | 10.2 |
| 1st Day of Month to Date (mm) | 0.2 | Grass Minimum | 5.4 |
| | | Total Sunshine | 8.6 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1025.2 |
| Minimum Pressure - | 1022.7 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Friday 12th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1023.0 | 1023.3 | 1023.1 | 1023.3 | 1022.7 | 1021.3 | 1021.9 | 1021.9 | 1022.6 | 1022.6 |
| Wind Speed | 13.0 | 9.4 | 7.9 | 9.2 | 7.0 | 4.9 | 3.8 | 0.3 | 3.4 | 6.5 |
| Wind Direction | 220 | 160 | 170 | 190 | 150 | 130 | 250 | 90 | 230 | |
| Highest Gust | | 17.0 | 13.0 | 17.0 | 16.2 | 13.0 | 13.0 | 8.9 | 7.3 | |
| in interval | | 31 | 326 | 614 | 1006 | 1222 | 1639 | 1801 | 2223 | |
| | | SSE | S | S | SSE | SE | WSW | E | SW | |
| Dry-bulb Temperature | 15.5 | 11.2 | 10.3 | 13.9 | 16.3 | 17.5 | 15.8 | 14.0 | 13.0 | 14.2 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 86.1 | 96.5 | -99999.0 | 79.1 | 76.4 | 77.7 | 92.4 | 100.0 | 100.0 | -11032.3 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.9 | 3.0 | 3.0 | 0.0 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | 0.0 | Maximum | 17.7 |
| Duration (hrs) | 0.0 | Minimum | 12.7 |
| 1st Day of Month to Date (mm) | 0.2 | Grass Minimum | 5.1 |
| | | Total Sunshine | 6.9 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1024.0 |
| Minimum Pressure - | 1020.8 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Saturday 13th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1022.8 | 1022.8 | 1023.2 | 1024.0 | 1022.9 | 1022.1 | 1021.5 | 1021.1 | 1019.4 | 1022.2 |
| Wind Speed | 3.1 | 2.7 | 3.0 | 3.2 | 3.0 | 4.3 | 4.2 | 4.3 | 7.9 | 4.0 |
| Wind Direction | 240 | 340 | 340 | 160 | 100 | 20 | 110 | 200 | 170 | |
| Highest Gust | | 7.3 | 6.5 | 6.5 | 8.9 | 8.1 | 8.9 | 6.5 | 13.0 | |
| in interval | | 240 | 358 | 723 | 910 | 1249 | 1500 | 1858 | 2349 | |
| | | NNW | NNW | SSE | E | NNE | ESE | SSW | S | |
| Dry-bulb Temperature | 13.3 | 13.2 | 13.0 | 13.8 | 15.1 | 15.5 | 14.4 | 13.2 | 13.7 | 13.9 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | trace | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 92.1 | 100.0 | 100.0 | 100.0 | 99.1 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.2 | 0.5 | 0.7 | 0.4 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 16.3 |
| Duration (hrs) | 6.0 | Minimum | 13.1 |
| 1st Day of Month to Date (mm) | 0.2 | Grass Minimum | 5.9 |
| | | Total Sunshine | 1.8 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1024.1 |
| Minimum Pressure - | 1019.4 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Sunday 14th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1019.4 | 1016.5 | 1015.0 | 1013.8 | 1012.0 | 1009.7 | 1008.4 | 1007.4 | 1007.4 | 1012.2 |
| Wind Speed | 8.9 | 5.7 | 7.9 | 6.5 | 6.7 | 7.9 | 6.7 | 6.5 | 5.8 | 7.0 |
| Wind Direction | 160 | 140 | 160 | 150 | 140 | 150 | 160 | 190 | 210 | |
| Highest Gust | | 13.8 | 15.4 | 15.4 | 17.8 | 16.2 | 18.7 | 14.6 | 14.6 | |
| in interval | | 55 | 549 | 851 | 1147 | 1204 | 1629 | 1830 | 2232 | |
| | | SE | SSE | SSE | SE | SSE | SSE | S | SSW | |
| Dry-bulb Temperature | 13.6 | 14.7 | 14.8 | 15.1 | 15.4 | 16.5 | 16.0 | 15.4 | 14.2 | 15.1 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | trace | trace | 0.0 | 0.0 | trace | trace | trace | |
| Duration of Rain (hrs) | | 0.8 | 2.2 | 2.7 | 0.0 | 0.0 | 0.2 | 1.2 | 1.2 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.2 | 0.0 | 0.0 | 0.4 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 16.7 |
| Duration (hrs) | 2.7 | Minimum | 12.7 |
| 1st Day of Month to Date (mm) | 0.2 | Grass Minimum | 7.3 |
| | | Total Sunshine | 0.6 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1019.4 |
| Minimum Pressure - | 1007.3 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Monday 15th October 2001**

| Hours Interval | 0 - | 3 0-3 | 6 3-6 | 9 6-9 | 12 9-12 | 15 12-15 | 18 15-18 | 21 18-21 | 24 21-24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1007.1 | 1005.1 | 1003.0 | 1003.1 | 1003.0 | 1005.2 | 1011.2 | 1015.2 | 1018.2 | 1007.9 |
| Wind Speed | 7.0 | 5.2 | 7.2 | 10.9 | 11.6 | 17.4 | 8.5 | 7.1 | 6.9 | 9.1 |
| Wind Direction | 210 | 150 | 160 | 170 | 190 | 290 | 250 | 190 | 170 | |
| Highest Gust | | 15.4 | 20.3 | 24.3 | 23.5 | 30.0 | 28.4 | 17.8 | 15.4 | |
| in interval | | 216 | 402 | 747 | 926 | 1448 | 1502 | 1901 | 2301 | |
| | | SSE | SSE | S | S | WNW | WSW | S | S | |
| Dry-bulb Temperature | 14.2 | 12.9 | 13.8 | 14.9 | 16.3 | 12.6 | 11.0 | 10.5 | 9.0 | 12.8 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | trace | 0.2 | trace | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.2 | 0.7 | 0.8 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 87.5 | 100.0 | 80.8 | 85.4 | 100.0 | 94.9 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.5 | 1.7 | 0.4 | 2.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | 0.2 | Maximum | 16.7 |
| Duration (hrs) | 1.5 | Minimum | 8.1 |
| 1st Day of Month to Date (mm) | 0.6 | Grass Minimum | No Value |
| | | Total Sunshine | 4.8 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1018.2 |
| Minimum Pressure - | 1002.7 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** **Tuesday 16th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1018.1 | 1020.4 | 1021.4 | 1023.1 | 1022.9 | 1022.2 | 1023.3 | 1023.5 | 1022.7 | 1022.0 |
| Wind Speed | 7.9 | 10.7 | 5.0 | 4.5 | 6.8 | 9.0 | 5.6 | 6.8 | 8.6 | 7.2 |
| Wind Direction | 190 | 150 | 140 | 130 | 170 | 170 | 150 | 160 | 160 | |
| Highest Gust | | 15.4 | 18.7 | 17.0 | 19.5 | 24.3 | 22.7 | 20.3 | 22.7 | |
| in interval | | 242 | 539 | 638 | 926 | 1413 | 1618 | 2037 | 2343 | |
| | | SSE | SE | SE | S | S | SSE | SSE | SSE | |
| Dry-bulb Temperature | 9.2 | 8.3 | 9.0 | 10.1 | 13.8 | 14.6 | 13.4 | 12.5 | 12.6 | 11.5 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 88.3 | 78.6 | 82.5 | 93.2 | 96.9 | 93.3 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.4 | 0.5 | 0.9 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | 0.0 | Maximum | 14.9 |
| Duration (hrs) | 0.0 | Minimum | 10.0 |
| 1st Day of Month to Date (mm) | 0.6 | Grass Minimum | 7.7 |
| | | Total Sunshine | 1.8 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1023.9 |
| Minimum Pressure - | 1018.1 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Wednesday 17th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1022.7 | 1021.4 | 1019.3 | 1019.6 | 1016.8 | 1012.4 | 1009.7 | 1007.6 | 1006.5 | 1015.1 |
| Wind Speed | 7.9 | 4.3 | 6.0 | 6.0 | 5.1 | 9.0 | 8.8 | 15.2 | 9.1 | 7.9 |
| Wind Direction | 160 | 150 | 150 | 140 | 130 | 130 | 110 | 130 | 120 | |
| Highest Gust | | 24.3 | 24.3 | 25.1 | 22.7 | 24.3 | 25.1 | 31.6 | 29.2 | |
| in interval | | 17 | 410 | 829 | 924 | 1419 | 1749 | 2043 | 2116 | |
| | | SSE | SSE | SE | SE | SE | ESE | SE | ESE | |
| Dry-bulb Temperature | 12.6 | 12.0 | 11.2 | 12.6 | 14.0 | 15.4 | 14.8 | 14.6 | 13.5 | 13.4 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | trace | trace | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 1.7 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 96.8 | 100.0 | 100.0 | 90.1 | 75.0 | 69.4 | 76.4 | 78.2 | 100.0 | 87.3 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.7 | 0.4 | 1.0 | 0.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 15.5 |
| Duration (hrs) | 7.8 | Minimum | 11.6 |
| 1st Day of Month to Date (mm) | 0.6 | Grass Minimum | 10.2 |
| | | Total Sunshine | 2.3 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1022.8 |
| Minimum Pressure - | 1006.5 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Thursday 18th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1006.5 | 1004.4 | 1005.4 | 1007.8 | 1009.0 | 1009.2 | 1010.4 | 1011.4 | 1011.9 | 1008.4 |
| Wind Speed | 6.5 | 6.3 | 5.8 | 1.6 | 5.1 | 4.8 | 6.5 | 3.0 | 2.7 | 4.7 |
| Wind Direction | 120 | 130 | 160 | 150 | 170 | 160 | 150 | 140 | 120 | |
| Highest Gust | | 26.0 | 21.9 | 17.0 | 19.5 | 15.4 | 13.0 | 13.0 | 14.6 | |
| in interval | | 19 | 322 | 608 | 1108 | 1318 | 1507 | 2045 | 2328 | |
| | | SE | SSE | SSE | S | SSE | SSE | SE | ESE | |
| Dry-bulb Temperature | 13.6 | 14.4 | 14.1 | 12.4 | 14.8 | 14.9 | 12.8 | 11.1 | 10.0 | 13.1 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | trace | trace | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 1.0 | 3.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 84.0 | 67.7 | 66.7 | 82.4 | 100.0 | 89.0 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.4 | 2.5 | 2.9 | 1.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | 0.0 | Maximum | 15.8 |
| Duration (hrs) | 0.0 | Minimum | 9.1 |
| 1st Day of Month to Date (mm) | 0.6 | Grass Minimum | 6.5 |
| | | Total Sunshine | 7.0 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1011.9 |
| Minimum Pressure - | 1004.2 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Friday 19th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1011.9 | 1010.9 | 1010.6 | 1009.0 | 1007.4 | 1006.0 | 1007.3 | 1007.8 | 1007.3 | 1008.7 |
| Wind Speed | 3.2 | 3.5 | 4.2 | 7.4 | 9.2 | 6.6 | 7.1 | 2.8 | 1.2 | 5.0 |
| Wind Direction | 120 | 120 | 100 | 110 | 100 | 110 | 130 | 150 | 130 | |
| Highest Gust | | 14.6 | 14.6 | 19.5 | 22.7 | 21.9 | 25.1 | 16.2 | 13.8 | |
| in interval | | 55 | 346 | 825 | 1050 | 1228 | 1651 | 1818 | 2303 | |
| | | ESE | E | ESE | E | ESE | SE | SSE | SE | |
| Dry-bulb Temperature | 9.9 | 9.5 | 9.4 | 11.4 | 13.0 | 12.5 | 13.9 | 13.8 | 13.6 | 11.9 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | trace | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 82.2 | 72.3 | 100.0 | 100.0 | 100.0 | 100.0 | 94.9 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 13.9 |
| Duration (hrs) | 10.3 | Minimum | 11.2 |
| 1st Day of Month to Date (mm) | 0.6 | Grass Minimum | 9.1 |
| | | Total Sunshine | 0.4 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1011.9 |
| Minimum Pressure - | 1005.5 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Saturday 20th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1007.1 | 1003.8 | 1000.4 | 1000.4 | 1001.6 | 1002.7 | 1003.3 | 1005.0 | 1004.4 | 1003.2 |
| Wind Speed | 1.3 | 7.2 | 5.3 | 11.9 | 6.6 | 4.0 | 1.7 | 1.8 | 2.1 | 4.7 |
| Wind Direction | 120 | 100 | 100 | 280 | 300 | 320 | 310 | 270 | 320 | |
| Highest Gust | | 13.0 | 21.9 | 25.1 | 23.5 | 17.8 | 13.8 | 11.4 | 7.3 | |
| in interval | | 210 | 445 | 819 | 931 | 1219 | 1522 | 1805 | 2225 | |
| | | E | E | W | WNW | NW | NW | W | NW | |
| Dry-bulb Temperature | 13.6 | 13.4 | 13.5 | 11.3 | 12.1 | 12.2 | 11.2 | 10.2 | 9.8 | 11.9 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | trace | trace | trace | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 2.7 | 3.0 | 3.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.2 | 0.0 | 0.0 | 0.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 12.3 |
| Duration (hrs) | 1.8 | Minimum | 9.7 |
| 1st Day of Month to Date (mm) | 0.6 | Grass Minimum | 5.0 |
| | | Total Sunshine | 0.4 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1007.1 |
| Minimum Pressure - | 999.8 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Sunday 21st October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1004.6 | 1004.9 | 1005.5 | 1005.4 | 1006.0 | 1006.0 | 1006.6 | 1007.6 | 1008.4 | 1006.1 |
| Wind Speed | 2.7 | 8.0 | 8.7 | 11.3 | 11.7 | 11.7 | 11.1 | 8.1 | 4.0 | 8.6 |
| Wind Direction | 320 | 340 | 350 | 340 | 340 | 320 | 330 | 320 | 320 | |
| Highest Gust | | 12.2 | 17.8 | 17.8 | 21.1 | 24.3 | 23.5 | 19.5 | 19.5 | |
| in interval | | 223 | 454 | 643 | 949 | 1303 | 1723 | 1800 | 2129 | |
| | | NNW | N | NNW | NNW | NW | NNW | NW | NW | |
| Dry-bulb Temperature | 9.9 | 10.7 | 10.9 | 11.0 | 11.3 | 10.7 | 10.9 | 11.4 | 11.7 | 10.9 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | trace | trace | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 2.7 | 0.7 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 87.7 | 100.0 | 82.9 | 100.0 | 100.0 | 100.0 | 100.0 | 96.7 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | 0.2 | Maximum | 12.0 |
| Duration (hrs) | 5.3 | Minimum | 10.4 |
| 1st Day of Month to Date (mm) | 0.8 | Grass Minimum | 9.0 |
| | | Total Sunshine | 0.0 |

COMMENTS :-

Maximum Pressure - 1008.4

Minimum Pressure - 1004.6

Program run by KTF

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Monday 22nd October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1008.8 | 1009.0 | 1009.4 | 1011.2 | 1011.7 | 1010.8 | 1010.7 | 1010.6 | 1009.6 | 1010.2 |
| Wind Speed | 3.7 | 6.0 | 2.9 | 1.6 | 6.1 | 8.6 | 5.1 | 4.0 | 1.5 | 4.4 |
| Wind Direction | 310 | 290 | 290 | 170 | 160 | 170 | 140 | 150 | 120 | |
| Highest Gust | | 16.2 | 16.2 | 10.5 | 11.4 | 17.0 | 15.4 | 18.7 | 16.2 | |
| in interval | | 110 | 328 | 607 | 1126 | 1357 | 1629 | 2000 | 2202 | |
| | | WNW | WNW | S | SSE | S | SE | SSE | ESE | |
| Dry-bulb Temperature | 11.7 | 12.0 | 11.1 | 11.6 | 13.7 | 13.8 | 12.7 | 11.8 | 11.6 | 12.2 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | trace | 0.0 | 0.0 | 0.0 | 0.0 | trace | trace | |
| Duration of Rain (hrs) | | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 2.8 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 80.0 | 68.1 | 73.4 | 100.0 | 100.0 | 91.3 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.7 | 2.9 | 1.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 13.9 |
| Duration (hrs) | 6.3 | Minimum | 11.2 |
| 1st Day of Month to Date (mm) | 0.8 | Grass Minimum | 8.1 |
| | | Total Sunshine | 4.8 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1011.9 |
| Minimum Pressure - | 1008.8 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Tuesday 23rd October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1009.6 | 1007.6 | 1007.3 | 1006.8 | 1007.5 | 1006.4 | 1009.1 | 1011.0 | 1012.2 | 1008.6 |
| Wind Speed | 1.3 | 1.4 | 1.5 | 1.7 | 7.5 | 8.6 | 9.5 | 7.8 | 8.6 | 5.3 |
| Wind Direction | 100 | 150 | 140 | 130 | 180 | 160 | 200 | 220 | 170 | |
| Highest Gust | | 17.0 | 14.6 | 17.0 | 17.8 | 20.3 | 19.5 | 17.8 | 18.7 | |
| in interval | | 57 | 305 | 708 | 1050 | 1205 | 1518 | 1836 | 2237 | |
| | | SSE | SE | SE | S | SSE | SSW | SW | S | |
| Dry-bulb Temperature | 11.6 | 11.7 | 11.5 | 12.7 | 15.1 | 14.5 | 13.1 | 12.8 | 10.9 | 12.7 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | 0.0 | 0.0 | trace | trace | trace | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 2.3 | 0.0 | 0.0 | 0.2 | 0.2 | 0.7 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 80.7 | 75.0 | 80.9 | 80.3 | 100.0 | 90.8 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.4 | 1.9 | 2.4 | 0.7 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 15.2 |
| Duration (hrs) | 5.0 | Minimum | 10.0 |
| 1st Day of Month to Date (mm) | 0.8 | Grass Minimum | 6.6 |
| | | Total Sunshine | 5.4 |

COMMENTS :-

Maximum Pressure - 1012.2

Minimum Pressure - 1006.3

Program run by KTF

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** **Wednesday 24th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1012.4 | 1010.8 | 1010.7 | 1012.6 | 1013.4 | 1013.0 | 1014.8 | 1017.5 | 1019.3 | 1013.8 |
| Wind Speed | 7.5 | 10.5 | 7.5 | 8.2 | 7.9 | 4.7 | 5.9 | 8.1 | 9.1 | 7.7 |
| Wind Direction | 160 | 170 | 170 | 240 | 210 | 160 | 180 | 250 | 250 | |
| Highest Gust | | 20.3 | 19.5 | 18.7 | 16.2 | 16.2 | 14.6 | 10.5 | 13.8 | |
| in interval | | 219 | 359 | 757 | 941 | 1259 | 1526 | 1811 | 2344 | |
| | | S | S | WSW | SSW | SSE | S | WSW | WSW | |
| Dry-bulb Temperature | 10.8 | 10.5 | 10.4 | 11.4 | 14.1 | 14.1 | 12.4 | 11.2 | 11.0 | 11.8 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | trace | trace | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 2.8 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 64.6 | 61.9 | 76.7 | 88.3 | 100.0 | 87.9 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.2 | 2.2 | 2.7 | 0.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | 0.0 | Maximum | 14.9 |
| Duration (hrs) | 0.0 | Minimum | 10.2 |
| 1st Day of Month to Date (mm) | 0.8 | Grass Minimum | 6.7 |
| | | Total Sunshine | 5.3 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1019.3 |
| Minimum Pressure - | 1010.4 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Thursday 25th October 2001**

| Hours<br>Interval | 0<br>- | 3<br>0-3 | 6<br>3-6 | 9<br>6-9 | 12<br>9-12 | 15<br>12-15 | 18<br>15-18 | 21<br>18-21 | 24<br>21-24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1019.3 | 1019.6 | 1019.7 | 1018.9 | 1016.9 | 1014.2 | 1013.6 | 1013.6 | 1013.1 | 1016.5 |
| Wind Speed | 8.2 | 7.4 | 6.5 | 9.8 | 14.3 | 17.1 | 10.8 | 10.9 | 9.8 | 10.5 |
| Wind Direction | 240 | 190 | 240 | 180 | 190 | 200 | 190 | 220 | 200 | |
| Highest Gust | | 13.0 | 17.8 | 16.2 | 21.9 | 26.8 | 30.0 | 25.1 | 17.0 | |
| in interval | | 110 | 524 | 759 | 1153 | 1448 | 1556 | 1833 | 2101 | |
| | | S | WSW | S | S | SSW | S | SW | SSW | |
| Dry-bulb Temperature | 10.9 | 11.1 | 13.2 | 12.8 | 13.6 | 14.3 | 12.7 | 11.9 | 11.6 | 12.5 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | trace | trace | trace | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 2.2 | 0.8 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 80.4 | 76.7 | 80.1 | 100.0 | 85.5 | 83.4 | 89.6 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 14.6 |
| Duration (hrs) | 5.0 | Minimum | 9.6 |
| 1st Day of Month to Date (mm) | 0.8 | Grass Minimum | 6.9 |
| | | Total Sunshine | 0.0 |

COMMENTS :-

Maximum Pressure - 1019.7

Minimum Pressure - 1013.0

Program run by KTF

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Friday 26th October 2001**

| Hours<br>Interval | 0<br>- | 3<br>0-3 | 6<br>3-6 | 9<br>6-9 | 12<br>9-12 | 15<br>12-15 | 18<br>15-18 | 21<br>18-21 | 24<br>21-24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1013.0 | 1011.7 | 1010.1 | 1008.9 | 1006.6 | 1005.7 | 1007.0 | 1008.3 | 1010.0 | 1009.0 |
| Wind Speed | 9.8 | 7.7 | 10.6 | 10.9 | 2.1 | 8.5 | 11.0 | 8.6 | 7.1 | 8.5 |
| Wind Direction | 190 | 200 | 200 | 180 | 140 | 230 | 250 | 250 | 260 | |
| Highest Gust | | 14.6 | 19.5 | 17.8 | 17.0 | 15.4 | 26.0 | 22.7 | 18.7 | |
| in interval | | 144 | 527 | 815 | 900 | 1445 | 1646 | 1842 | 2234 | |
| | | SSW | SSW | S | SE | SW | WSW | WSW | W | |
| Dry-bulb Temperature | 11.6 | 11.0 | 10.5 | 10.4 | 10.1 | 11.6 | 11.1 | 11.3 | 10.8 | 10.9 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | 0.0 | 0.0 | trace | trace | trace | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 1.7 | 0.0 | 0.0 | 2.3 | 1.0 | 0.8 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 85.1 | 100.0 | 90.4 | 100.0 | 100.0 | 86.7 | 73.3 | 81.1 | 79.7 | 88.5 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.0 | 0.7 | 0.4 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 11.9 |
| Duration (hrs) | 4.3 | Minimum | 9.3 |
| 1st Day of Month to Date (mm) | 0.8 | Grass Minimum | 5.1 |
| | | Total Sunshine | 1.1 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1013.1 |
| Minimum Pressure - | 1005.4 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Saturday 27th October 2001**

| Hours<br>Interval | 0<br>- | 3<br>0-3 | 6<br>3-6 | 9<br>6-9 | 12<br>9-12 | 15<br>12-15 | 18<br>15-18 | 21<br>18-21 | 24<br>21-24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1010.1 | 1011.2 | 1012.3 | 1015.2 | 1017.1 | 1018.3 | 1020.5 | 1023.7 | 1025.5 | 1017.1 |
| Wind Speed | 5.9 | 8.0 | 7.6 | 5.5 | 9.7 | 11.4 | 10.5 | 7.0 | 5.8 | 7.9 |
| Wind Direction | 250 | 250 | 240 | 260 | 290 | 300 | 280 | 260 | 250 | |
| Highest Gust | | 14.6 | 14.6 | 13.8 | 21.1 | 21.1 | 18.7 | 13.8 | 11.4 | |
| in interval | | 14 | 411 | 836 | 1113 | 1229 | 1541 | 1802 | 2156 | |
| | | WSW | WSW | W | WNW | WNW | W | W | WSW | |
| Dry-bulb Temperature | 10.9 | 9.6 | 9.6 | 10.5 | 12.5 | 12.8 | 10.8 | 10.0 | 10.2 | 10.8 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 78.0 | 80.6 | 81.6 | 79.1 | 72.1 | 71.8 | 79.4 | 100.0 | 100.0 | 82.5 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.4 | 2.9 | 3.0 | 0.0 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | 0.0 | Maximum | 13.0 |
| Duration (hrs) | 0.0 | Minimum | 8.9 |
| 1st Day of Month to Date (mm) | 0.8 | Grass Minimum | 2.7 |
| | | Total Sunshine | 6.3 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1025.5 |
| Minimum Pressure - | 1010.1 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Sunday 28th October 2001**

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1025.5 | 1026.6 | 1027.8 | 1030.1 | 1031.3 | 1030.8 | 1030.8 | 1031.2 | 1030.2 | 1029.4 |
| Wind Speed | 6.3 | 2.4 | 3.5 | 3.7 | 7.8 | 6.9 | 6.3 | 6.6 | 8.7 | 5.8 |
| Wind Direction | 250 | 280 | 270 | 270 | 300 | 300 | 270 | 250 | 250 | |
| Highest Gust | | 8.9 | 7.3 | 8.1 | 12.2 | 15.4 | 13.8 | 10.5 | 12.2 | |
| in interval | | 2352 | 553 | 825 | 1146 | 1426 | 1515 | 1937 | 2235 | |
| | | W | W | W | WNW | WNW | W | WSW | WSW | |
| Dry-bulb Temperature | 10.2 | 10.1 | 9.4 | 9.7 | 11.5 | 12.1 | 9.6 | 9.1 | 8.5 | 10.0 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 100.0 | 100.0 | 100.0 | 85.6 | 71.3 | 100.0 | 100.0 | 100.0 | 95.2 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.4 | 2.4 | 2.2 | 0.7 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | 0.2 | Maximum | 12.4 |
| Duration (hrs) | 0.0 | Minimum | 8.3 |
| 1st Day of Month to Date (mm) | 1.0 | Grass Minimum | 4.8 |
| | | Total Sunshine | 5.7 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1031.3 |
| Minimum Pressure - | 1025.5 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

BIDSTON OBSERVATORY, BIRKENHEAD

Monday 29th October 2001

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1030.0 | 1028.2 | 1027.8 | 1027.8 | 1025.3 | 1022.7 | 1020.4 | 1018.0 | 1016.3 | 1024.1 |
| Wind Speed | 9.7 | 5.5 | 4.6 | 3.5 | 8.9 | 7.0 | 16.4 | 22.0 | 23.3 | 11.2 |
| Wind Direction | 250 | 260 | 260 | 260 | 270 | 270 | 260 | 270 | 260 | |
| Highest Gust | | 14.6 | 19.5 | 13.0 | 21.1 | 21.1 | 30.0 | 41.4 | 42.2 | |
| in interval | | 2356 | 358 | 615 | 1126 | 1217 | 1653 | 1959 | 2230 | |
| | | W | W | W | W | W | W | W | W | |
| Dry-bulb Temperature | 8.4 | 10.1 | 9.9 | 10.7 | 12.4 | 14.1 | 13.3 | 14.1 | 14.4 | 11.9 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 100.0 | 85.1 | 82.0 | 79.1 | 76.4 | 76.0 | 85.4 | 76.3 | 70.0 | 81.1 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.0 | 0.0 | 1.5 | 0.2 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | 0.0 | Maximum | 14.5 |
| Duration (hrs) | 0.0 | Minimum | 10.5 |
| 1st Day of Month to Date (mm) | 1.0 | Grass Minimum | 7.9 |
| | | Total Sunshine | 1.7 |

COMMENTS :-

Maximum Pressure - 1030.0

Minimum Pressure - 1016.3

Program run by KTF

# PROUDMAN OCEANOGRAPHIC LABORATORY

BIDSTON OBSERVATORY, BIRKENHEAD

Tuesday 30th October 2001

| Hours | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interval | - | 0-3 | 3-6 | 6-9 | 9-12 | 12-15 | 15-18 | 18-21 | 21-24 | MEAN |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1016.2 | 1014.2 | 1013.1 | 1011.2 | 1007.4 | 1006.7 | 1006.2 | 1006.4 | 1007.3 | 1009.9 |
| Wind Speed | 21.3 | 23.2 | 16.1 | 12.4 | 11.9 | 15.4 | 14.1 | 15.2 | 16.6 | 16.2 |
| Wind Direction | 260 | 250 | 260 | 220 | 210 | 250 | 260 | 290 | 290 | |
| Highest Gust | | 39.7 | 37.3 | 32.4 | 27.6 | 41.4 | 34.9 | 38.1 | 29.2 | |
| in interval | | 6 | 304 | 636 | 1146 | 1258 | 1701 | 2015 | 2332 | |
| | | WSW | W | SW | SSW | WSW | W | WNW | WNW | |
| Dry-bulb Temperature | 14.4 | 14.1 | 14.2 | 14.7 | 17.4 | 15.2 | 14.0 | 10.6 | 10.0 | 13.8 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | trace | trace | |
| Duration of Rain (hrs) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.8 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 70.2 | 87.7 | 84.8 | 75.4 | 59.1 | 67.1 | 67.2 | 100.0 | 86.1 | 77.5 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.7 | 3.0 | 1.5 | 0.9 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| Amount (mm) | trace | Maximum | 17.6 |
| Duration (hrs) | 4.7 | Minimum | 8.2 |
| 1st Day of Month to Date (mm) | 1.0 | Grass Minimum | 5.1 |
| | | Total Sunshine | 6.1 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1016.2 |
| Minimum Pressure - | 1004.7 |
| Program run by | KTF |

# PROUDMAN OCEANOGRAPHIC LABORATORY

**BIDSTON OBSERVATORY, BIRKENHEAD** — **Wednesday 31st October 2001**

| Hours<br>Interval | 0<br>- | 3<br>0-3 | 6<br>3-6 | 9<br>6-9 | 12<br>9-12 | 15<br>12-15 | 18<br>15-18 | 21<br>18-21 | 24<br>21-24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| Barometer Reading | | | | | | | | | | |
| Corrected Reading mb to MSL | 1007.5 | 1009.0 | 1015.8 | 1021.5 | 1026.7 | 1030.0 | 1034.7 | 1037.7 | 1039.3 | 1024.7 |
| Wind Speed | 14.4 | 25.3 | 22.6 | 25.3 | 22.2 | 20.5 | 14.4 | 13.2 | 11.5 | 18.8 |
| Wind Direction | 290 | 300 | 320 | 310 | 310 | 310 | 320 | 310 | 320 | |
| Highest Gust | | 43.8 | 41.4 | 42.2 | 43.0 | 39.7 | 42.2 | 29.2 | 26.8 | |
| in interval | | 145 | 338 | 710 | 1120 | 1215 | 1611 | 1916 | 2135 | |
| | | WNW | NW | NW | NW | NW | NW | NW | NW | |
| Dry-bulb Temperature | 10.1 | 9.2 | 8.5 | 9.5 | 10.1 | 10.8 | 10.1 | 9.9 | 9.8 | 9.8 |
| Wet-Bulb Temperature | | | | | | | | | | |
| Forms of cloud | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Total amount of cloud | | | | | | | | | | |
| Rain in interval (mm) | | trace | trace | 0.0 | 0.0 | 0.0 | trace | 0.0 | 0.0 | |
| Duration of Rain (hrs) | | 1.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | |
| Visibility | | | | | | | | | | |
| Relative humidity | 87.1 | 100.0 | 76.9 | 56.4 | 59.5 | 62.4 | 61.2 | 67.8 | 61.9 | 70.4 |
| Dew point Temperature | | | | | | | | | | |
| Sunshine in interval (hrs) | | | 0.0 | 0.2 | 0.7 | 0.9 | 0.0 | 0.0 | | |
| Weather in previous interval | | | | | | | | | | |

| RAINFALL ( 09 NEXT DAY) | | TEMPERATURES (09 NEXT DAY) | |
|---|---|---|---|
| | | | |
| Amount (mm) | trace | Maximum | 10.8 |
| Duration (hrs) | 0.3 | Minimum | 8.0 |
| 1st Day of Month to Date (mm) | 1.0 | Grass Minimum | 4.7 |
| | | Total Sunshine | 1.8 |

COMMENTS :-

| | |
|---|---|
| Maximum Pressure - | 1039.3 |
| Minimum Pressure - | 1007.5 |
| Program run by | KTF |