

# WOKINGHAM

# METEOROLOGICAL

# DATA

## Wokingham Climatological Station, Emmbrook, Berkshire.

Lat/Long 51°25'N 00°51'W NGR (SU)798701 Altitude 46m ASL.

### Monthly Means and Totals

### JUNE 2009

| Temperature (°C / °F)                     | Anomaly         |                   |                     | Rank in the past 128 years |      |                     |                    |
|-------------------------------------------|-----------------|-------------------|---------------------|----------------------------|------|---------------------|--------------------|
| Mean maximum                              | 21.7            | 71.1              | +1.9                | 21 <sup>st</sup> highest   |      |                     |                    |
| Mean minimum                              | 10.1            | 50.2              | 0.0                 | 50 <sup>th</sup> highest   |      |                     |                    |
| Daily mean                                | 15.9            | 60.6              | +0.9                | 26 <sup>th</sup> highest   |      |                     |                    |
| Highest maximum                           | 29.7            | 85.5              | on 29 <sup>th</sup> | Lowest maximum             | 13.6 | 56.5                | on 6 <sup>th</sup> |
| Highest minimum                           | 15.7            | 60.3              | on 29 <sup>th</sup> | Lowest minimum             | 4.0  | 39.2                | on 4 <sup>th</sup> |
| Mean grass minimum                        | 6.5             | 43.7              | -1.2                | Lowest grass minimum       | -1.5 | 29.3                | on 4 <sup>th</sup> |
| Mean earth @30 cm                         | 16.8            | 62.2              | +0.5                | Earth @100 cm              | 14.6 | 58.3                |                    |
| Frost duration (hrs)                      | 0.0             |                   |                     | Rain duration (hrs)        | 27.5 |                     |                    |
| Rainfall total (mm / in)                  | 27.2            | 1.07              | 50 %                | 35 <sup>th</sup> lowest    |      |                     |                    |
| Highest daily fall                        | 10.9            | 0.43              | on 6 <sup>th</sup>  |                            |      |                     |                    |
| Number of: Dry days (<0.2mm)              | 22              | Wet days (>0.9mm) | 6                   | days ≥5mm                  | 1    |                     |                    |
| Sunshine total (hrs) 208.1                | Daily mean 6.94 | 108 %             |                     | Sunniest day 15.5          |      | on 2 <sup>nd</sup>  |                    |
| N° days with: Air frost 0                 | Ground frost 1  | Snow falling 0    | Snow lying 0        |                            |      |                     |                    |
| Thunder 3                                 | Hail ≥5mm 0     | Small hail/ice 0  | Fog @09 0           | Nil sun                    | 1    |                     |                    |
| Air pressure MSL : Mean @09 GMT (mbar/in) | 1017.9          | +0.9              | 30.06               |                            |      |                     |                    |
| Absolute highest                          | 1029.6          |                   | 30.40               |                            |      | on 23 <sup>rd</sup> |                    |
| Absolute lowest                           | 998.1           |                   | 29.47               |                            |      | on 7 <sup>th</sup>  |                    |

Anomaly = departure from 1971 to 2000 average (degrees C, percent and mbar).

Notes:

### Warm and Dry with Near Normal Sunshine

**Temperature :** In terms of the mean maximum, this June was not exceptional, being slightly cooler than 4 out of the last 10, although it was warmer than either of the past 2 Junes. However, the mean minimum is lowest since 2001, and the resulting monthly mean temperature is second lowest after 2008 since 2002. The highest max is 2.7° above the median and is highest since 2006. The lowest max is 1.1° below the median and is lowest since 1997. The highest min is 1.1° above the median while the lowest min is 0.7° below the median but is lowest only since 2006. The mean daily temperature range of 11.6° is 2<sup>nd</sup> highest since 1996 and is 1.7° above average. The mean grass min is lowest since 1996. There was a ground frost on the 4<sup>th</sup>, the first one in June since 2006, joining 10 other Junes to have at least one in the past 30 years. Earth temps are not far from average. **Rainfall :** A dry June overall, with only about half the average rainfall. Despite this, in recent years it was drier in 2006, 2005 and 2000. The number of dry days is 3 more than average. An 8 day dry spell ended on the 4<sup>th</sup>, while a second one was unbroken on the 30<sup>th</sup> after 11 days. Thunder occurred on the 7<sup>th</sup>, 15<sup>th</sup> and 27<sup>th</sup>. The month's highest rainfall rate was 32 mm/hr on the 7<sup>th</sup>. The duration measurable rain is close to average. **Sunshine :** The total sunshine hours this month is not far from the average for June, and ranks 5<sup>th</sup> highest in the past 10 years. Overall there were 9 days with <3 hours, 17 with =>6 hours, 11 with =>9 hours, 7 with =>12 hours and 1 with =>15 hours. **Wind :** The overall mean wind speed this June was 5.2 mph, 1.0 mph below average. The 17<sup>th</sup> was the windiest day, mean speed 9.0 mph, equal lowest for a June day with 2001 in the past 22 years. The month's highest gust of 35 mph was also on the 17<sup>th</sup>. The 28<sup>th</sup> was the least windy day, mean 3.2 mph, and there were 957 minutes, 15.95 hours, with a mean speed of 0.5 mph or less. Daily mean direction/number of days : N,3 NE,4 E,3 SE,3 S,2 SW,6 W,7 NW,2. **Humidity :** the overall mean relative humidity was 65.8 %, and the 11<sup>th</sup> was the day with the month's lowest value of 26 %. The mean water vapour content per kg of air was 7.3 g at 0900 GMT and 6.7 g at 1500 GMT. **Commentary : From the 1<sup>st</sup> to the 10<sup>th</sup> :** After a short-lived warm start, with daily maxima 6° above normal on the 1<sup>st</sup> and 2<sup>nd</sup>, temperatures were mainly below normal, with anomalies for daily max down to -5.7° on the 6<sup>th</sup>, and for daily min, -5.1° on the 4<sup>th</sup> and 8<sup>th</sup>. Dry until the 4<sup>th</sup>, then rain on the next 6 days, giving all but 3.1 mm of the month's total. Sunny until the 4<sup>th</sup>, then dull. Generally light winds were mainly from between NE and SE. **From the 11<sup>th</sup> to the 21<sup>st</sup> :** Daily maxima were near normal at first and again after the 17<sup>th</sup>, with an intervening warmer interlude. Anomalies for daily max ranged from +4.3° on the 13<sup>th</sup> to -1.7° on the 18<sup>th</sup>, and for daily min from +3.7° on the 13<sup>th</sup> to -5.5° on the 12<sup>th</sup>. A little rain fell on just 3 days, giving 3.1 mm in total. Sunshine was generally near normal. Winds were mostly moderate SW'ly or W'ly, but fresh on the 11<sup>th</sup> and 17<sup>th</sup>. **From the 22<sup>nd</sup> to the 30<sup>th</sup> :** This period saw increasing warmth by day, with anomalies for daily max ranging from +1.1° on the 26<sup>th</sup> to +8.4° on the 29<sup>th</sup>. Anomalies for daily min were mostly not far from normal. This period was completely dry. Sunshine was generally good, just the 26<sup>th</sup> having cloudy skies. Winds were mainly light, W'ly on the 22<sup>nd</sup> becoming E'ly on the 23<sup>rd</sup>, W'ly again on the 26<sup>th</sup>, backing S'ly by the 29<sup>th</sup>.

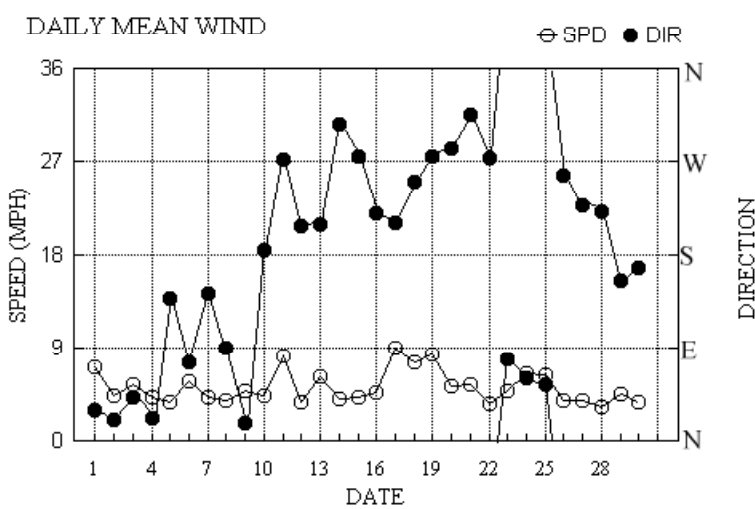
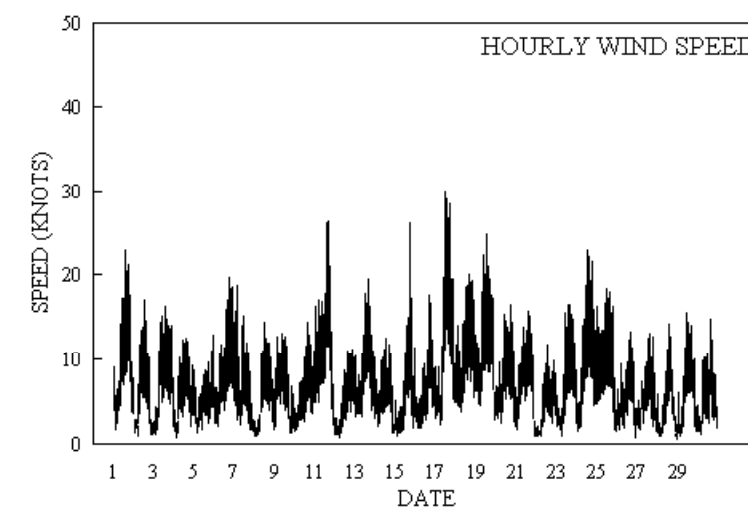
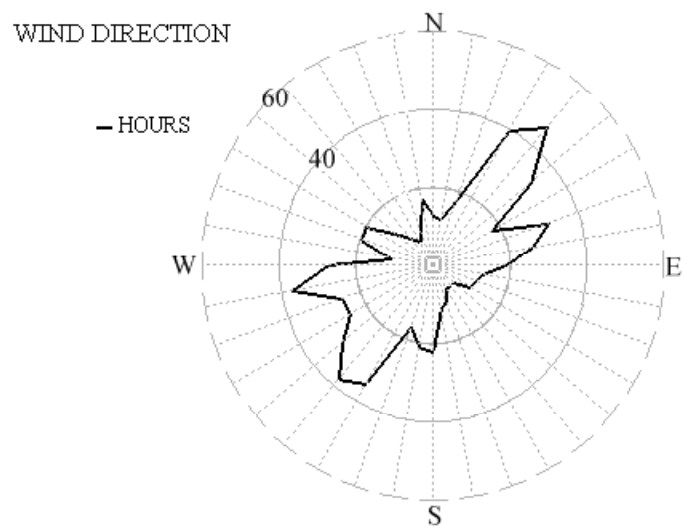
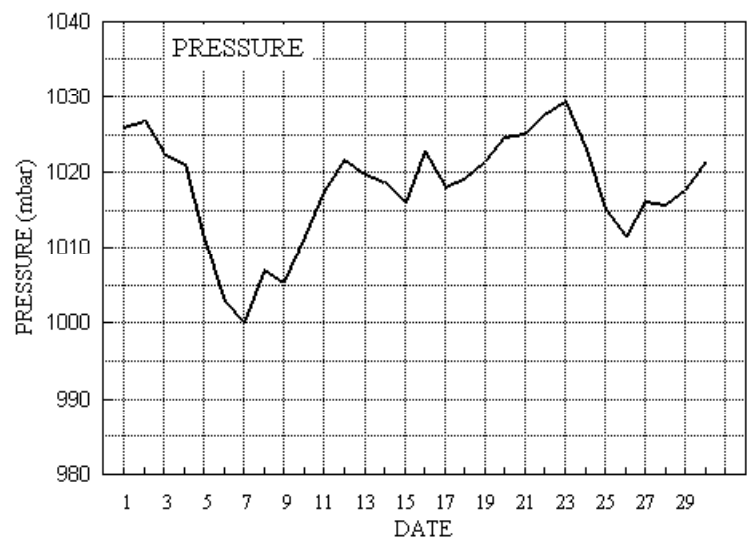
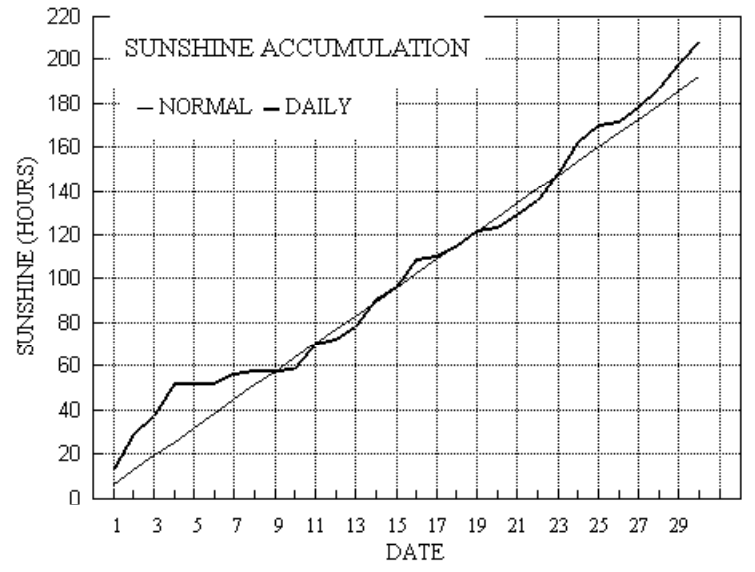
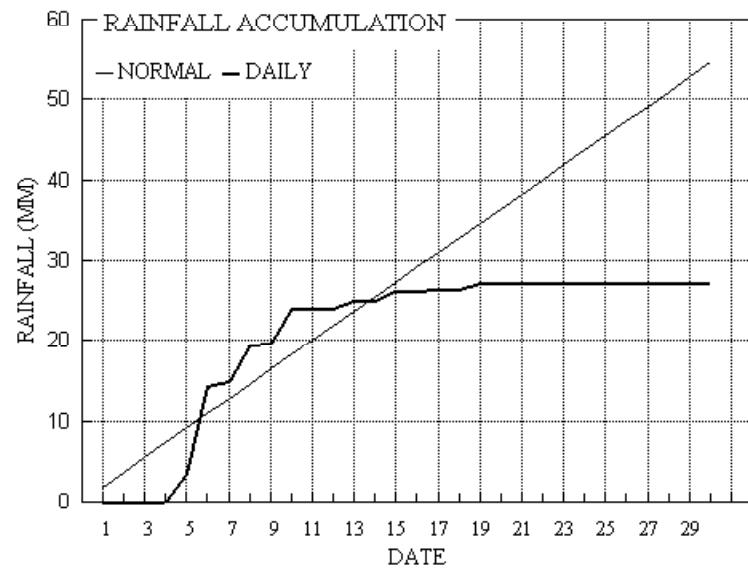
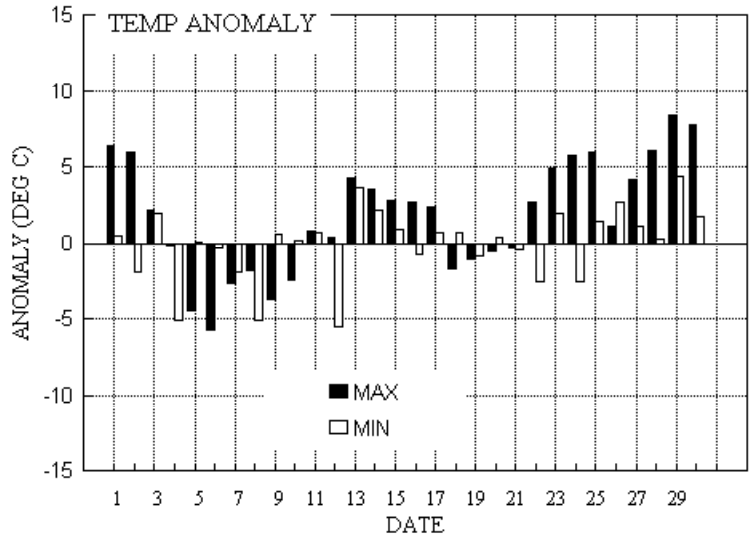
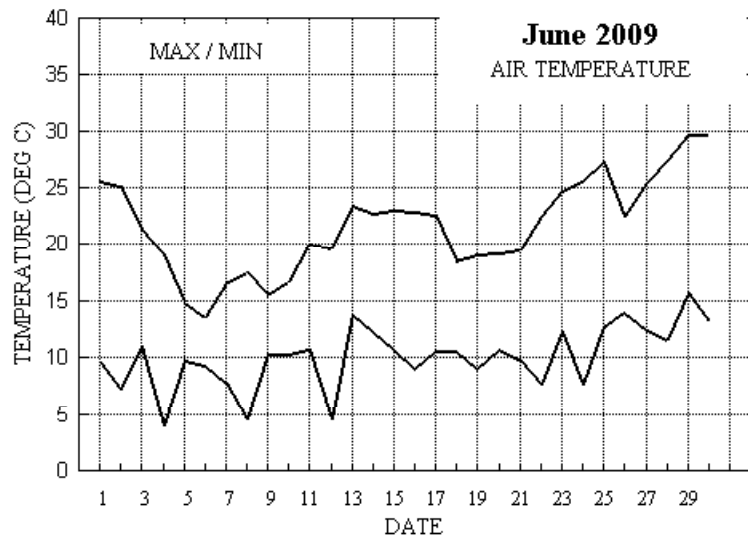
Table 1. Mean anomalies (max, min, rain, sun) for specified periods

| From the 1 <sup>st</sup> to the 10 <sup>th</sup> |       |       |      | From the 11 <sup>th</sup> to the 20 <sup>th</sup> |       |      |       | From the 21 <sup>st</sup> to the 30 <sup>th</sup> |       |     |       |
|--------------------------------------------------|-------|-------|------|---------------------------------------------------|-------|------|-------|---------------------------------------------------|-------|-----|-------|
| -0.6°                                            | -1.1° | 144 % | 91 % | +1.3°                                             | +0.2° | 17 % | 102 % | +4.7°                                             | +0.8° | 0 % | 132 % |

B J Burton. FRMetS .

Hon. Met. Officer to Wokingham Town Council

# Wokingham Climatological Graphs for June 2009



Month: JUNE 2009

| Date       | Max<br>C | Min<br>C | Rain<br>mm | Grass<br>Min | 30cm<br>C | 100cm<br>C | Sun<br>hrs | Frost<br>hrs | pp09<br>mbar | Af<br>Gf | Sf<br>Sl | Th<br>Ha | Ic<br>Fg | Vec mean<br>ddd ff sp | Max gust<br>ddd gg HHhh | High hr<br>ddd ff HH | Rain<br>hrs |      |  |
|------------|----------|----------|------------|--------------|-----------|------------|------------|--------------|--------------|----------|----------|----------|----------|-----------------------|-------------------------|----------------------|-------------|------|--|
| 1          | 25.6     | 9.6      | tr         | 5.2          | 16.3      | 13.5       | 13.4       | 0.0          | 1026.0       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 30       | 6.1                   | 6.1                     | 30 23 1406           | 26 11 17    | 0.0  |  |
| 2          | 25.2     | 7.2      | 0.0        | 2.0          | 16.5      | 13.7       | 15.5       | 0.0          | 1026.7       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 20       | 3.5                   | 3.7                     | 23 17 1244           | 27 7 09     | 0.0  |  |
| 3          | 21.4     | 11.1     | 0.0        | 7.0          | 16.8      | 13.9       | 9.1        | 0.0          | 1022.5       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 41       | 4.5                   | 4.7                     | 33 17 1358           | 38 7 14     | 0.0  |  |
| 4          | 19.1     | 4.0      | 0.0        | -1.5         | 16.7      | 14.1       | 14.2       | 0.0          | 1021.0       | 0 1 0 0  | 0 0 0 0  | 0 0 0 0  | 21       | 2.4                   | 3.6                     | 30 13 1443           | 16 6 15     | 0.0  |  |
| 5          | 14.8     | 9.8      | 3.3        | 4.6          | 16.6      | 14.2       | 0.1        | 0.0          | 1011.3       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 138      | 2.5                   | 3.3                     | 116 13 2318          | 111 6 21    | 7.5  |  |
| 6          | 13.6     | 9.3      | 10.9       | 8.9          | 15.8      | 14.3       | 0.0        | 0.0          | 1002.9       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 76       | 4.8                   | 4.9                     | 79 20 1817           | 81 7 20     | 8.7  |  |
| 7          | 16.6     | 7.8      | 0.7        | 6.9          | 15.4      | 14.3       | 4.6        | 0.0          | 1000.0       | 0 0 0 0  | 1 0 0 0  | 0 0 0 0  | 142      | 0.6                   | 3.7                     | 233 19 0408          | 233 6 04    | 0.4  |  |
| 8          | 17.5     | 4.6      | 4.6        | 0.5          | 15.5      | 14.2       | 1.3        | 0.0          | 1007.2       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 89       | 2.7                   | 3.4                     | 113 15 1120          | 92 6 11     | 5.4  |  |
| 9          | 15.6     | 10.3     | 0.1        | 9.2          | 15.5      | 14.2       | 0.1        | 0.0          | 1005.4       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 17       | 3.5                   | 4.2                     | 18 13 0950           | 21 7 09     | 0.2  |  |
| 10         | 16.7     | 10.3     | 4.5        | 8.9          | 15.4      | 14.2       | 0.2        | 0.0          | 1011.5       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 184      | 2.2                   | 3.8                     | 193 15 1456          | 195 8 15    | 1.7  |  |
| 11         | 20.0     | 10.8     | tr         | 9.2          | 15.6      | 14.2       | 11.9       | 0.0          | 1017.5       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 272      | 6.9                   | 7.2                     | 268 27 1506          | 267 13 15   | 0.0  |  |
| 12         | 19.6     | 4.6      | tr         | 0.2          | 15.7      | 14.2       | 2.4        | 0.0          | 1021.8       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 208      | 2.5                   | 3.3                     | 216 11 2000          | 209 6 20    | 0.0  |  |
| 13         | 23.5     | 13.8     | 1.0        | 11.8         | 16.2      | 14.2       | 5.9        | 0.0          | 1019.8       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 209      | 5.2                   | 5.4                     | 236 20 1534          | 218 9 15    | 0.7  |  |
| 14         | 22.7     | 12.3     | 0.0        | 7.5          | 16.9      | 14.3       | 12.2       | 0.0          | 1018.7       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 306      | 2.1                   | 3.4                     | 317 13 1209          | 343 5 15    | 0.0  |  |
| 15         | 23.0     | 10.8     | 1.2        | 7.2          | 17.2      | 14.4       | 6.0        | 0.0          | 1016.1       | 0 0 0 0  | 1 0 0 0  | 0 0 0 0  | 275      | 3.1                   | 3.6                     | 300 26 1708          | 300 11 17   | 0.8  |  |
| 16         | 22.9     | 9.1      | 0.0        | 3.8          | 17.3      | 14.6       | 12.0       | 0.0          | 1022.8       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 220      | 2.8                   | 4.0                     | 186 18 1657          | 211 9 16    | 0.0  |  |
| 17         | 22.6     | 10.6     | 0.1        | 5.9          | 17.4      | 14.8       | 1.8        | 0.0          | 1018.1       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 211      | 7.3                   | 7.8                     | 215 30 1146          | 212 14 13   | 0.4  |  |
| 18         | 18.5     | 10.6     | 0.0        | 5.6          | 17.0      | 14.9       | 4.2        | 0.0          | 1019.2       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 251      | 6.5                   | 6.6                     | 267 20 1534          | 263 9 16    | 0.0  |  |
| 19         | 19.1     | 9.0      | 0.8        | 6.2          | 16.6      | 15.0       | 7.2        | 0.0          | 1021.4       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 275      | 6.6                   | 7.3                     | 290 25 1254          | 283 10 15   | 1.7  |  |
| 20         | 19.2     | 10.7     | 0.0        | 6.3          | 16.3      | 15.0       | 1.6        | 0.0          | 1024.6       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 283      | 4.1                   | 4.6                     | 260 17 1752          | 300 7 14    | 0.0  |  |
| 21         | 19.5     | 9.8      | 0.0        | 5.2          | 16.3      | 15.0       | 5.9        | 0.0          | 1025.1       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 315      | 4.4                   | 4.7                     | 318 16 1419          | 305 7 15    | 0.0  |  |
| 22         | 22.5     | 7.7      | 0.0        | 4.0          | 16.3      | 14.9       | 6.7        | 0.0          | 1027.6       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 273      | 1.3                   | 3.1                     | 270 12 1242          | 195 6 21    | 0.0  |  |
| 23         | 24.7     | 12.3     | 0.0        | 8.4          | 16.9      | 14.9       | 12.5       | 0.0          | 1029.3       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 79       | 3.4                   | 4.1                     | 70 17 1414           | 64 7 15     | 0.0  |  |
| 24         | 25.6     | 7.7      | 0.0        | 2.4          | 17.3      | 15.0       | 13.5       | 0.0          | 1023.0       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 60       | 5.5                   | 5.6                     | 79 23 1334           | 60 9 14     | 0.0  |  |
| 25         | 27.3     | 12.7     | tr         | 10.4         | 17.6      | 15.1       | 8.3        | 0.0          | 1015.1       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 54       | 5.2                   | 5.5                     | 53 19 1114           | 68 7 12     | 0.0  |  |
| 26         | 22.4     | 14.0     | 0.0        | 10.2         | 18.0      | 15.3       | 1.3        | 0.0          | 1011.5       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 256      | 1.7                   | 3.4                     | 238 13 1526          | 228 6 13    | 0.0  |  |
| 27         | 25.5     | 12.4     | 0.0        | 8.1          | 17.8      | 15.4       | 6.7        | 0.0          | 1016.3       | 0 0 0 0  | 1 0 0 0  | 0 0 0 0  | 227      | 2.4                   | 3.4                     | 263 13 1423          | 232 6 14    | 0.0  |  |
| 28         | 27.4     | 11.6     | 0.0        | 7.9          | 18.2      | 15.5       | 8.6        | 0.0          | 1015.8       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 221      | 1.7                   | 2.8                     | 211 14 1450          | 210 6 14    | 0.0  |  |
| 29         | 29.7     | 15.7     | 0.0        | 12.5         | 18.7      | 15.7       | 11.2       | 0.0          | 1017.7       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 155      | 2.5                   | 3.9                     | 184 16 1122          | 208 7 17    | 0.0  |  |
| 30         | 29.7     | 13.1     | 0.0        | 9.3          | 19.1      | 15.8       | 9.7        | 0.0          | 1021.6       | 0 0 0 0  | 0 0 0 0  | 0 0 0 0  | 167      | 1.0                   | 3.2                     | 241 15 1527          | 245 6 14    | 0.0  |  |
| Total      |          |          | 27.2       |              |           |            | 208.1      | 0.0          |              |          |          |          |          |                       |                         |                      |             | 27.5 |  |
| Mean       | 21.7     | 10.1     |            | 6.5          | 16.8      | 14.6       | 6.94       | 0.0          | 1017.9       |          |          |          |          | 282                   | 0.5                     | 4.5                  |             |      |  |
| Anom       | +1.9     | +0.0     | 50%        |              | +0.5      | +0.0       | 108%       |              |              |          | +0.9     |          |          |                       |                         |                      |             |      |  |
| Daily mean |          | 15.9     |            |              |           |            |            |              |              |          |          |          |          |                       |                         |                      |             |      |  |
| Anom       |          | +0.9     |            |              |           |            |            |              |              |          |          |          |          |                       |                         |                      |             |      |  |

Number of days with:

Air frost = 0      Ground frost = 1      Nil sun = 1  
Snow falling = 0      Snow lying = 0      Thunder = 3  
Hail=>5mm = 0      Hail<5mm or ice = 0      Fog at 09GMT = 0

## Abbreviations.

Max/min = highest and lowest air temperature at 1.2m in 24 hour period ending at 09 GMT

Rain = total rainfall and melted snowfall in 24 hour period ending at 09 GMT, millimetres. (Tr = trace, &lt;.05mm).

Grass min = Lowest overnight temperature at grass tip level.

Sun = hours of bright sunshine, measured electronically. Frost = Number of hours with air temp below 0 deg C.

pp09 = Air pressure corrected to mean sea level at 0900 GMT, millibars.

Af = Air frost. Gf = Ground frost. Sf = Snow falling. Sl = Snow lying at 09 GMT.

Th = Thunder. Ha = Hail =&gt;5mm. Ic = Hail &lt;5mm or ice. Fg = Fog at 09 GMT.

Vec mean = 24 hour mean wind vector, ddd = direction in degrees from true north, ff = speed in knots.

Sp = 24 hour mean wind speed in knots.

Max gust = Highest gust in 24 hours, gg = speed in knots, HHhh = Time, hours and minutes, GMT.

High hr = Highest hourly mean wind, HH = hour commencing. Rain Hrs = Duration of rain, 24 hours to 09 GMT. Excludes snow/hail.

30cm and 100 cm are earth temperatures at those depths, read at 09 GMT.

Anom = Departure from 1971-2000 climatological average.

All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for June 2009

| Date | VV | N | dd | ff | gg | TT   | Td   | RH | r    | PPP    | a | ppp | ww | W1 | W2 | Nh | Cl | h | Cr | Ch | shs   | NChs  | hNChs | Date | Remarks                              |
|------|----|---|----|----|----|------|------|----|------|--------|---|-----|----|----|----|----|----|---|----|----|-------|-------|-------|------|--------------------------------------|
| 1    | 82 | 2 | 04 | 07 | 15 | 21.8 | 11.9 | 53 | 8.2  | 1026.0 | 7 | 007 | 02 | 0  | 0  | 0  | 0  | 9 | 0  | 1  | 82078 |       |       | 1    | COTRA                                |
| 2    | 86 | 1 | 03 | 06 | 11 | 19.6 | 6.5  | 43 | 5.8  | 1026.7 | 8 | 005 | 02 | 0  | 0  | 0  | 0  | 9 | 0  | 1  | 81080 |       |       | 2    | COTRA                                |
| 3    | 88 | 6 | 03 | 08 | 14 | 17.9 | 5.4  | 44 | 5.3  | 1022.5 | 4 | 000 | 02 | 1  | 1  | 1  | 0  | 9 | 3  | 1  | 81365 | 86080 |       | 3    | COTRA                                |
| 4    | 82 | 6 | 02 | 03 | 09 | 13.4 | 4.2  | 54 | 4.8  | 1021.0 | 8 | 007 | 03 | 1  | 1  | 1  | 1  | 6 | 0  | 1  | 81835 | 86075 |       | 4    | COTRA Cu hum L/a cont                |
| 5    | 66 | 7 | 20 | 02 | 06 | 13.1 | 6.0  | 62 | 5.8  | 1011.3 | 7 | 012 | 02 | 2  | 2  | 7  | 8  | 5 | /  | /  | 81825 | 87635 |       | 5    | /Sc56 Cu fra Sc cas                  |
| 6    | 35 | 8 | 10 | 04 | 12 | 10.9 | 9.0  | 87 | 7.2  | 1002.9 | 3 | 001 | 63 | 6  | 6  | 4  | 5  | 4 | 2  | /  | 82715 | 83625 | 88545 | 6    |                                      |
| 7    | 81 | 4 | 21 | 04 | 08 | 13.1 | 6.3  | 63 | 5.9  | 1000.0 | 1 | 012 | 03 | 1  | 1  | 3  | 2  | 5 | 4  | 8  | 83825 |       |       | 7    | 1Ac66 2Cs70                          |
| 8    | 65 | 8 | 05 | 04 | 11 | 11.1 | 8.1  | 82 | 6.7  | 1007.2 | 8 | 001 | 02 | 2  | 2  | 8  | 5  | 4 | /  | /  | 81712 | 86615 | 88618 | 8    |                                      |
| 9    | 62 | 8 | 02 | 06 | 12 | 11.7 | 10.0 | 89 | 7.7  | 1005.4 | 2 | 006 | 61 | 6  | 2  | 7  | 5  | 3 | 2  | /  | 82708 | 85712 | 86620 | 9    | 8Ns50                                |
| 10   | 58 | 8 | 12 | 02 | 06 | 13.3 | 10.4 | 82 | 7.8  | 1011.5 | 0 | 001 | 60 | 6  | 2  | 6  | 8  | 4 | 7  | /  | 81812 | 86630 | 88357 | 10   | Cu fra/hum                           |
| 11   | 80 | 2 | 29 | 06 | 18 | 15.4 | 6.4  | 55 | 6.1  | 1017.5 | 2 | 021 | 03 | 1  | 1  | 2  | 2  | 5 | 0  | 0  | 82828 |       |       | 11   | Cu hum/med                           |
| 12   | 81 | 7 | 13 | 01 | 06 | 14.5 | 4.7  | 52 | 5.4  | 1021.8 | 0 | 001 | 21 | 6  | 2  | 7  | 0  | 9 | 7  | 1  | 82358 | 87362 |       | 12   |                                      |
| 13   | 68 | 6 | 20 | 04 | 11 | 18.3 | 12.0 | 67 | 8.6  | 1019.8 | 8 | 006 | 03 | 2  | 2  | 5  | 8  | 5 | 3  | 0  | 84820 |       |       | 13   | 2Sc35 2Ac60 Cu med                   |
| 14   | 78 | 6 | 35 | 04 | 10 | 18.3 | 9.6  | 57 | 7.5  | 1018.7 | 1 | 002 | 03 | 1  | 1  | 1  | 1  | 6 | 0  | 1  | 81832 | 86080 |       | 14   | COTRA Cu hum U/a cont                |
| 15   | 84 | 7 | 35 | 01 | 04 | 17.2 | 9.4  | 60 | 7.3  | 1016.1 | 7 | 007 | 01 | 2  | 2  | 2  | 8  | 7 | 7  | 8  | 82856 | 83468 | 86272 | 15   | 1Sc56 1Ac68 Cu med Sc cas Cs edge NW |
| 16   | 68 | 2 | 33 | 03 | 06 | 17.4 | 9.9  | 62 | 7.7  | 1022.8 | 2 | 011 | 03 | 0  | 0  | 2  | 2  | 5 | 0  | 0  | 82825 |       |       | 16   | Cu med                               |
| 17   | 80 | 7 | 20 | 10 | 18 | 19.0 | 10.7 | 58 | 8.0  | 1018.1 | 8 | 025 | 02 | 2  | 2  | 1  | 1  | 6 | 3  | 8  | 81830 | 86270 |       | 17   | 1Ac68 /Ci75 Cu hum                   |
| 18   | 84 | 6 | 26 | 07 | 14 | 16.3 | 5.6  | 49 | 5.4  | 1019.2 | 0 | 002 | 03 | 1  | 1  | 2  | 8  | 6 | 3  | 0  | 82835 | 85365 |       | 18   | 1Sc45 Cu hum                         |
| 19   | 82 | 3 | 30 | 10 | 21 | 16.2 | 4.7  | 46 | 5.2  | 1021.4 | 2 | 014 | 03 | 0  | 0  | 3  | 2  | 6 | 0  | 0  | 83840 |       |       | 19   | Cu hum/med                           |
| 20   | 81 | 6 | 26 | 05 | 10 | 14.4 | 9.7  | 73 | 7.4  | 1024.6 | 8 | 001 | 03 | 6  | 2  | 7  | 8  | 5 | /  | /  | 82820 | 86650 |       | 20   | Cu med                               |
| 21   | 84 | 6 | 35 | 07 | 13 | 15.8 | 8.3  | 61 | 6.6  | 1025.1 | 1 | 005 | 03 | 1  | 1  | 5  | 8  | 5 | 7  | 0  | 83828 | 83635 |       | 21   | 1Ac62 3Ac66 Cu med                   |
| 22   | 66 | 2 | 28 | 02 | 07 | 18.7 | 9.9  | 57 | 7.5  | 1027.6 | 0 | 000 | 03 | 1  | 1  | 2  | 8  | 6 | 0  | 0  | 81830 |       |       | 22   | 2SC50 Cu hum                         |
| 23   | 80 | 6 | 09 | 04 | 08 | 19.2 | 6.7  | 44 | 6.1  | 1029.3 | 8 | 003 | 02 | 2  | 2  | 6  | 5  | 6 | 0  | 0  | 81635 | 86650 |       | 23   |                                      |
| 24   | 80 | 0 | 04 | 07 | 13 | 19.4 | 10.4 | 56 | 8.1  | 1023.0 | 7 | 016 | 02 | 0  | 0  | 0  | 0  | 9 | 0  | 0  |       |       |       | 24   |                                      |
| 25   | 59 | 7 | 03 | 07 | 14 | 17.2 | 12.1 | 72 | 8.7  | 1015.1 | 8 | 007 | 05 | 2  | 2  | 5  | 5  | 4 | 8  | 1  | 85618 | 87078 |       | 25   | 1Ac63 COTRA Ac cas U/a cont          |
| 26   | 56 | 8 | 35 | 01 | 05 | 17.1 | 13.6 | 79 | 9.6  | 1011.5 | 3 | 005 | 05 | 6  | 2  | 8  | 6  | 3 | /  | /  | 88708 |       |       | 26   |                                      |
| 27   | 57 | 7 | 22 | 04 | 08 | 18.0 | 14.1 | 78 | 10.1 | 1016.3 | 1 | 005 | 05 | 4  | 2  | 6  | 6  | 4 | 3  | /  | 85712 | 83656 | 85365 | 27   |                                      |
| 28   | 60 | 5 | 23 | 01 | 06 | 22.0 | 14.6 | 63 | 10.0 | 1015.8 | 0 | 001 | 05 | 1  | 1  | 1  | 1  | 5 | 0  | 5  | 81825 | 85078 |       | 28   | 1Cs75 COTRA Cu hum                   |
| 29   | 80 | 4 | 10 | 05 | 11 | 26.1 | 13.1 | 44 | 8.6  | 1017.7 | 1 | 001 | 02 | 1  | 1  | 2  | 0  | 9 | 8  | 1  | 81361 | 83075 |       | 29   | 2Ac64 COTRA Ac cas                   |
| 30   | 75 | 3 | 13 | 03 | 10 | 24.8 | 12.7 | 47 | 8.9  | 1021.6 | 1 | 005 | 02 | 1  | 1  | 2  | 0  | 9 | 8  | 1  | 81360 | 83080 |       | 30   | 2Ac63 COTRA Ac cas Ac edge SW        |

Mean vis = 28.2 km

Mean cloud = 5.3 66%

Mean wind speed = 4.6 kn

Mean gust = 11 kn

Mean TT = 17.0 °C

Mean TdDd = 9.2 °C

Mean RH = 61.3 %

Mean r = 7.3 g/kg

Mean PPP = 1017.9 mbar

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

dd = Direction from which wind is blowing, tens of degrees true

ff = 10 minute mean wind speed, knots

gg = Highest gust in past hour, knots

TT = Air temperature at 1.2 m, deg Celsius

TdDd = Dew point temperature at 1.2 m, deg Celsius

RH = Relative humidity at 1.2 m

r = Humidity mixing ratio at 1.2 m, g/kg

PPP = Air pressure reduced to sea level, mbar

a = Characteristic of pressure tendency (Code FM12-0200)

ppp = 3 hr pressure tendency, tenths of mbar

ww = Present weather code (Code FM12-4677)

W1, W2 = Past weather code (Code FM12-4561)-

covers past 3 hours.

Nh = Amount of low cloud present, oktas

Cl = Type of low cloud (Code FM12-0513)

h = Height of low cloud (Code FM12-1600)

Cm = Type of medium cloud (Code FM12-0515)

Ch = Type of high cloud (Code FM12-0509)

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs= Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation

trails present.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for June 2009

| Date | VV | N | dd | ff | gg | TT   | Td   | Td | RH  | r      | PPP | a   | ppp | ww | W1 | W2 | Nh | Cl | h | Cr | Ch | shs | NCh | shs | NCh | shs | Date                                     | Remarks            |
|------|----|---|----|----|----|------|------|----|-----|--------|-----|-----|-----|----|----|----|----|----|---|----|----|-----|-----|-----|-----|-----|------------------------------------------|--------------------|
| 1    | 86 | 3 | 03 | 10 | 23 | 25.0 | 11.0 | 41 | 8.3 | 1024.4 | 7   | 007 | 25  | 8  | 0  | 3  | 2  | 7  | 6 | 2  |    |     |     |     |     |     | 1                                        | 1Ac59 1Ci75 Cu con |
| 2    | 86 | 2 | 36 | 06 | 15 | 25.1 | 6.3  | 30 | 5.8 | 1024.4 | 7   | 011 | 02  | 0  | 0  | 1  | 1  | 8  | 0 | 1  |    |     |     |     |     | 2   | 2Ci80 COTRA Cu hum                       |                    |
| 3    | 80 | 7 | 04 | 07 | 15 | 20.4 | 10.8 | 54 | 7.4 | 1021.1 | 7   | 006 | 03  | 2  | 2  | 7  | 8  | 6  | / | /  |    |     |     |     |     | 3   | 3 Cu hum                                 |                    |
| 4    | 81 | 7 | 03 | 06 | 12 | 18.2 | 2.3  | 35 | 4.7 | 1017.7 | 7   | 017 | 02  | 2  | 2  | 2  | 2  | 7  | 0 | 1  |    |     |     |     |     | 4   | 4 COTRA Cu hum/med Cz arc                |                    |
| 5    | 65 | 7 | 13 | 04 | 08 | 12.9 | 8.7  | 76 | 7.1 | 1008.2 | 7   | 014 | 21  | 6  | 2  | 7  | 8  | 4  | 7 | /  |    |     |     |     |     | 5   | 5 /Ac58 Cu med                           |                    |
| 6    | 58 | 8 | 08 | 06 | 16 | 12.0 | 9.1  | 83 | 7.2 | 1001.6 | 6   | 008 | 63  | 6  | 6  | 5  | 8  | 4  | 2 | /  |    |     |     |     |     | 6   | 6 2Sc45 Cu hum                           |                    |
| 7    | 70 | 7 | 21 | 02 | 12 | 13.5 | 4.8  | 55 | 5.4 | 1000.9 | 2   | 006 | 25  | 8  | 2  | 4  | 8  | 6  | 6 | /  |    |     |     |     |     | 7   | 7 2Sc56 Cu med Absent vv&cld est         |                    |
| 8    | 78 | 8 | 10 | 05 | 12 | 15.8 | 5.5  | 50 | 5.6 | 1005.4 | 7   | 010 | 02  | 2  | 2  | 8  | 8  | 6  | / | /  |    |     |     |     |     | 8   | 8 Cu med                                 |                    |
| 9    | 75 | 8 | 36 | 03 | 12 | 14.5 | 8.4  | 67 | 6.9 | 1007.3 | 2   | 011 | 15  | 2  | 2  | 8  | 8  | 5  | / | /  |    |     |     |     |     | 9   | 9 2Sc40 Cu med jpS                       |                    |
| 10   | 80 | 8 | 19 | 07 | 15 | 15.1 | 9.9  | 71 | 7.5 | 1009.1 | 7   | 008 | 15  | 8  | 2  | 3  | 8  | 5  | 1 | /  |    |     |     |     |     | 10  | 10 2Sc50 Cu med/con jpN                  |                    |
| 11   | 84 | 2 | 26 | 12 | 26 | 19.7 | 2.9  | 33 | 4.5 | 1018.3 | 7   | 002 | 02  | 1  | 1  | 1  | 2  | 7  | 6 | 3  |    |     |     |     |     | 11  | 11 1Ac58 1Ci70 1Ci80 Cb top N            |                    |
| 12   | 82 | 7 | 22 | 06 | 11 | 19.2 | 6.6  | 44 | 5.8 | 1021.0 | 8   | 005 | 03  | 2  | 2  | 3  | 8  | 6  | 7 | 1  |    |     |     |     |     | 12  | 12 1Cu40 /Ac62 /Ci75 COTRA Cu hum        |                    |
| 13   | 84 | 4 | 24 | 08 | 17 | 22.8 | 9.5  | 43 | 7.1 | 1018.2 | 6   | 010 | 02  | 1  | 1  | 2  | 8  | 7  | 3 | 1  |    |     |     |     |     | 13  | 13 1Sc56 2Ac64 1Ci78 COTRA Cu med        |                    |
| 14   | 83 | 6 | 35 | 04 | 09 | 20.8 | 6.0  | 38 | 5.9 | 1017.8 | 7   | 005 | 02  | 1  | 1  | 2  | 1  | 7  | 0 | 1  |    |     |     |     |     | 14  | 14 Cu hum Halo 22°                       |                    |
| 15   | 83 | 4 | 27 | 04 | 15 | 21.0 | 6.7  | 40 | 6.1 | 1013.8 | 6   | 010 | 15  | 1  | 1  | 3  | 2  | 7  | 6 | 3  |    |     |     |     |     | 15  | 15 1Ac57 1Ac62 1Ci75 Cb top N jpN Cu con |                    |
| 16   | 82 | 6 | 13 | 02 | 08 | 21.2 | 7.9  | 42 | 6.5 | 1022.9 | 7   | 003 | 03  | 1  | 1  | 3  | 2  | 7  | 6 | 1  |    |     |     |     |     | 16  | 16 Cu med                                |                    |
| 17   | 80 | 7 | 22 | 12 | 26 | 20.1 | 7.6  | 44 | 6.5 | 1014.8 | 6   | 011 | 21  | 6  | 2  | 1  | 1  | 6  | 7 | /  |    |     |     |     |     | 17  | 17 Cu hum/fra                            |                    |
| 18   | 84 | 7 | 25 | 08 | 15 | 18.1 | 6.3  | 46 | 5.8 | 1018.0 | 7   | 006 | 02  | 2  | 2  | 2  | 8  | 6  | 7 | /  |    |     |     |     |     | 18  | 18 1Sc50 1Ac62 Cu hum/med                |                    |
| 19   | 84 | 7 | 28 | 08 | 17 | 17.9 | 4.6  | 41 | 5.1 | 1022.0 | 2   | 002 | 02  | 1  | 1  | 7  | 8  | 7  | / | 2  |    |     |     |     |     | 19  | 19 1Ci75 Cu med                          |                    |
| 20   | 80 | 7 | 30 | 06 | 14 | 17.7 | 7.3  | 51 | 6.3 | 1023.8 | 7   | 001 | 15  | 2  | 2  | 4  | 8  | 6  | 6 | /  |    |     |     |     |     | 20  | 20 Cu med jpNW&N vv60k ex p              |                    |
| 21   | 86 | 6 | 30 | 06 | 16 | 18.9 | 7.9  | 49 | 6.7 | 1024.7 | 7   | 002 | 02  | 2  | 2  | 5  | 8  | 6  | 3 | 1  |    |     |     |     |     | 21  | 21 2Ac62 2Ci75                           |                    |
| 22   | 83 | 8 | 34 | 04 | 09 | 21.0 | 10.2 | 50 | 7.9 | 1027.2 | 7   | 001 | 02  | 2  | 2  | 8  | 8  | 6  | / | /  |    |     |     |     |     | 22  | 22 Cu hum                                |                    |
| 23   | 81 | 2 | 06 | 07 | 18 | 24.0 | 7.3  | 34 | 6.2 | 1026.6 | 7   | 013 | 01  | 1  | 1  | 2  | 1  | 7  | 0 | 0  |    |     |     |     |     | 23  | 23 Cu hum                                |                    |
| 24   | 83 | 2 | 08 | 08 | 21 | 24.6 | 7.4  | 33 | 6.3 | 1019.1 | 7   | 022 | 01  | 0  | 0  | 1  | 1  | 7  | 3 | 2  |    |     |     |     |     | 24  | 24 1Ac58 1Ci75 Cu hum                    |                    |
| 25   | 75 | 6 | 06 | 06 | 15 | 25.3 | 10.3 | 39 | 7.7 | 1011.8 | 7   | 016 | 02  | 2  | 2  | 3  | 1  | 7  | 3 | 1  |    |     |     |     |     | 25  | 25 2Ac62 Cu hum Absent, vv&cld est       |                    |
| 26   | 65 | 7 | 26 | 05 | 11 | 20.8 | 13.8 | 64 | 9.6 | 1012.1 | 8   | 002 | 03  | 2  | 2  | 6  | 8  | 5  | 0 | 2  |    |     |     |     |     | 26  | 26 2Sc40 Cu med COTRA                    |                    |
| 27   | 80 | 4 | 22 | 04 | 13 | 24.8 | 12.2 | 45 | 8.5 | 1015.0 | 7   | 008 | 15  | 0  | 0  | 2  | 2  | 6  | 6 | 1  |    |     |     |     |     | 27  | 27 1Ac65 1Ci75 Cu con jpN                |                    |
| 28   | 80 | 7 | 22 | 08 | 15 | 26.0 | 7.3  | 30 | 6.2 | 1014.9 | 7   | 002 | 15  | 2  | 2  | 2  | 2  | 7  | 2 |    |    |     |     |     |     | 28  | 28 Cu con jpNE vv60k ex p                |                    |
| 29   | 75 | 4 | 19 | 07 | 13 | 28.4 | 11.5 | 35 | 8.9 | 1017.3 | 7   | 001 | 02  | 0  | 0  | 3  | 2  | 7  | 6 | 2  |    |     |     |     |     | 29  | 29 1Ac59 1Ac63 1Ci75 Cu con              |                    |
| 30   | 80 | 7 | 24 | 05 | 12 | 28.5 | 11.9 | 36 | 8.4 | 1020.9 | 7   | 001 | 03  | 2  | 2  | 2  | 2  | 7  | 7 | 1  |    |     |     |     |     | 30  | 30 2Ac60 /Ci78 Cu con Cu N&NE            |                    |

Mean vis = 36.0 km

Mean cloud = 5.8 73%

Mean wind speed = 6.2 kn

Mean gust = 15 kn

Mean TT = 20.4 °C

Mean Td = 8.1 °C

Mean RH = 46.6 %

Mean r = 6.7 g/kg

Mean PPP = 1016.7 mbar

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

dd = Direction from which wind is blowing, tens of degrees true

ff = 10 minute mean wind speed, knots

gg = Highest gust in past hour, knots

TT = Air temperature at 1.2 m, deg Celsius

Td = Dew point temperature at 1.2 m, deg Celsius

RH = Relative humidity at 1.2 m

r = Humidity mixing ratio at 1.2 m, g/kg

PPP = Air pressure reduced to sea level, mbar

a = Characteristic of pressure tendency (Code FM12-0200)

ppp = 3 hr pressure tendency, tenths of mbar

ww = Present weather code (Code FM12-4677)

W1, W2 = Past weather code (Code FM12-4561)-

covers past 3 hours.

Nh = Amount of low cloud present, oktas

Cl = Type of low cloud (Code FM12-0513)

h = Height of low cloud (Code FM12-1600)

Cm = Type of medium cloud (Code FM12-0515)

Ch = Type of high cloud (Code FM12-0509)

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs = Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation

trails present.



| June 2009 | T mn  | Tx   | Time | Tn   | Time | RHmn | RH x | Time | RH n | Time | Tdmn  | r mn | r x  | Time | r n | Time | p mn    | p x    | Time | p n    | Time | R tot |
|-----------|-------|------|------|------|------|------|------|------|------|------|-------|------|------|------|-----|------|---------|--------|------|--------|------|-------|
| 1         | 18.45 | 25.8 | 1449 | 9.6  | 421  | 58.4 | 90.7 | 422  | 36.2 | 1426 | 9.44  | 7.29 | 10.4 | 1139 | 5.0 | 2113 | 1025.63 | 1027.2 | 2349 | 1023.8 | 1729 | 0.0   |
| 2         | 17.37 | 25.4 | 1530 | 7.4  | 355  | 54.6 | 92.2 | 451  | 26.7 | 1413 | 6.76  | 6.05 | 7.3  | 805  | 4.5 | 1136 | 1025.45 | 1027.4 | 609  | 1023.0 | 2342 | 0.0   |
| 3         | 15.33 | 21.0 | 1313 | 7.5  | 2349 | 61.9 | 87.6 | 411  | 37.5 | 940  | 7.70  | 6.51 | 8.7  | 1459 | 4.9 | 2153 | 1022.00 | 1023.4 | 43   | 1020.8 | 1625 | 0.0   |
| 4         | 12.22 | 19.2 | 1510 | 4.3  | 355  | 60.1 | 92.9 | 413  | 31.8 | 1531 | 3.86  | 4.98 | 6.4  | 1407 | 3.9 | 1108 | 1019.00 | 1022.3 | 0    | 1015.0 | 2351 | 0.0   |
| 5         | 11.77 | 15.0 | 1546 | 9.6  | 2300 | 72.3 | 88.0 | 2304 | 53.5 | 1636 | 6.86  | 6.20 | 8.0  | 1310 | 5.2 | 1652 | 1009.65 | 1015.1 | 2    | 1004.8 | 2343 | 2.2   |
| 6         | 11.11 | 13.5 | 1703 | 9.1  | 209  | 80.9 | 91.9 | 235  | 61.3 | 1827 | 7.86  | 6.68 | 8.0  | 1335 | 5.3 | 2007 | 1002.06 | 1005.0 | 2    | 999.7  | 2350 | 4.0   |
| 7         | 11.26 | 16.6 | 1230 | 6.9  | 2358 | 74.3 | 93.1 | 2355 | 34.2 | 1045 | 6.43  | 6.08 | 7.7  | 818  | 3.8 | 1045 | 1000.93 | 1005.6 | 2358 | 998.1  | 328  | 8.3   |
| 8         | 11.46 | 17.6 | 1324 | 4.5  | 313  | 75.9 | 94.7 | 510  | 46.3 | 1332 | 6.98  | 6.27 | 7.6  | 1112 | 4.9 | 313  | 1006.04 | 1007.5 | 644  | 1004.8 | 1824 | 0.3   |
| 9         | 12.50 | 15.5 | 1703 | 10.1 | 324  | 81.4 | 93.7 | 431  | 57.5 | 1633 | 9.25  | 7.28 | 8.2  | 922  | 6.2 | 1636 | 1007.10 | 1011.3 | 2356 | 1004.4 | 431  | 4.1   |
| 10        | 13.13 | 16.5 | 1151 | 10.2 | 402  | 81.3 | 93.3 | 441  | 61.1 | 1659 | 9.92  | 7.60 | 9.4  | 1408 | 6.7 | 1654 | 1010.11 | 1011.7 | 815  | 1008.1 | 1709 | 4.5   |
| 11        | 14.81 | 20.2 | 1455 | 8.1  | 2359 | 56.5 | 87.7 | 11   | 25.8 | 1600 | 5.22  | 5.57 | 7.8  | 47   | 3.7 | 1602 | 1017.19 | 1021.5 | 2328 | 1010.1 | 3    | 0.0   |
| 12        | 13.69 | 19.6 | 1424 | 4.7  | 342  | 67.2 | 93.3 | 422  | 41.2 | 1453 | 7.25  | 6.35 | 8.4  | 2337 | 4.8 | 342  | 1021.31 | 1022.1 | 632  | 1020.2 | 1841 | 0.0   |
| 13        | 17.50 | 23.7 | 1450 | 12.1 | 2354 | 68.2 | 87.9 | 403  | 37.6 | 1303 | 11.06 | 8.13 | 9.9  | 829  | 6.2 | 1303 | 1019.29 | 1021.2 | 3    | 1017.8 | 1614 | 0.9   |
| 14        | 17.06 | 23.0 | 1352 | 11.5 | 2323 | 60.5 | 91.2 | 455  | 30.3 | 1336 | 8.44  | 6.88 | 8.5  | 337  | 4.8 | 1336 | 1018.18 | 1019.1 | 723  | 1017.1 | 1721 | 0.0   |
| 15        | 16.31 | 23.0 | 1149 | 10.7 | 324  | 62.1 | 87.7 | 419  | 31.5 | 1150 | 8.42  | 6.84 | 8.4  | 1411 | 5.1 | 1517 | 1015.99 | 1018.4 | 2325 | 1013.3 | 1605 | 1.2   |
| 16        | 16.10 | 23.0 | 1353 | 8.9  | 333  | 63.8 | 94.0 | 457  | 34.5 | 1354 | 8.44  | 6.82 | 8.6  | 828  | 5.3 | 1902 | 1022.20 | 1024.0 | 2100 | 1017.6 | 15   | 0.1   |
| 17        | 15.85 | 22.7 | 1258 | 10.6 | 216  | 70.1 | 93.8 | 426  | 32.1 | 1546 | 9.83  | 7.53 | 9.3  | 2018 | 4.5 | 1546 | 1017.61 | 1023.5 | 6    | 1013.9 | 1803 | 0.1   |
| 18        | 14.57 | 18.5 | 1422 | 10.4 | 436  | 64.3 | 92.1 | 351  | 41.1 | 1446 | 7.37  | 6.37 | 8.1  | 647  | 5.2 | 905  | 1018.25 | 1019.6 | 725  | 1016.9 | 23   | 0.1   |
| 19        | 14.39 | 19.4 | 1236 | 8.8  | 417  | 58.8 | 89.2 | 419  | 33.2 | 1236 | 5.70  | 5.66 | 6.9  | 2354 | 4.5 | 1541 | 1021.45 | 1024.6 | 2215 | 1018.2 | 237  | 0.0   |
| 20        | 14.28 | 19.2 | 1404 | 10.6 | 19   | 68.2 | 88.3 | 705  | 43.9 | 1408 | 8.22  | 6.68 | 8.1  | 908  | 5.8 | 1415 | 1024.28 | 1025.5 | 2237 | 1023.2 | 1733 | 0.7   |
| 21        | 14.91 | 19.7 | 1454 | 9.5  | 47   | 65.7 | 91.7 | 2351 | 44.3 | 1230 | 8.23  | 6.68 | 7.7  | 1128 | 5.9 | 1136 | 1025.05 | 1026.6 | 2354 | 1024.2 | 334  | 0.0   |
| 22        | 16.46 | 22.3 | 1247 | 7.8  | 341  | 67.9 | 94.6 | 529  | 39.5 | 1243 | 9.98  | 7.53 | 9.7  | 1955 | 6.1 | 329  | 1027.43 | 1029.0 | 2322 | 1026.1 | 207  | 0.0   |
| 23        | 17.83 | 24.7 | 1434 | 10.9 | 2338 | 53.5 | 84.9 | 420  | 28.1 | 1631 | 7.40  | 6.33 | 8.7  | 1233 | 4.3 | 1925 | 1027.71 | 1029.6 | 654  | 1025.5 | 1826 | 0.0   |
| 24        | 17.15 | 25.4 | 1345 | 7.8  | 205  | 58.4 | 88.1 | 357  | 28.1 | 1605 | 7.95  | 6.61 | 9.5  | 1112 | 5.1 | 1605 | 1021.40 | 1026.2 | 2    | 1017.7 | 1738 | 0.0   |
| 25        | 18.87 | 27.4 | 1524 | 12.6 | 102  | 63.6 | 87.3 | 2359 | 31.0 | 1542 | 11.00 | 8.15 | 10.4 | 1215 | 6.9 | 1542 | 1013.86 | 1018.0 | 14   | 1011.0 | 1717 | 0.0   |
| 26        | 17.68 | 22.5 | 1557 | 14.1 | 2    | 76.2 | 90.3 | 2359 | 54.2 | 1603 | 13.31 | 9.48 | 10.9 | 1421 | 8.6 | 2    | 1012.36 | 1015.0 | 2359 | 1010.7 | 556  | 0.0   |
| 27        | 18.59 | 25.8 | 1356 | 12.1 | 350  | 70.9 | 94.6 | 654  | 37.5 | 1401 | 12.60 | 9.03 | 10.8 | 949  | 7.4 | 1404 | 1015.54 | 1016.5 | 842  | 1014.5 | 308  | 0.0   |
| 28        | 19.75 | 27.6 | 1404 | 11.4 | 510  | 63.5 | 94.6 | 524  | 27.8 | 1450 | 11.46 | 8.41 | 10.8 | 808  | 5.8 | 1450 | 1015.73 | 1017.1 | 2339 | 1014.7 | 1406 | 0.0   |
| 29        | 23.02 | 29.9 | 1343 | 15.5 | 403  | 57.7 | 91.0 | 409  | 30.5 | 1405 | 13.10 | 9.32 | 11.2 | 624  | 7.9 | 1405 | 1017.83 | 1020.7 | 2353 | 1016.7 | 5    | 0.0   |
| 30        | 22.73 | 29.6 | 1323 | 13.2 | 344  | 56.3 | 91.8 | 435  | 30.6 | 1541 | 12.51 | 8.93 | 10.9 | 1928 | 7.3 | 1146 | 1021.19 | 1023.0 | 2344 | 1020.3 | 1719 | 0.0   |

|       |       |       |  |       |  |      |       |  |       |  |       |      |       |  |      |  |         |         |  |         |  |      |
|-------|-------|-------|--|-------|--|------|-------|--|-------|--|-------|------|-------|--|------|--|---------|---------|--|---------|--|------|
| Total |       |       |  |       |  |      |       |  |       |  |       |      |       |  |      |  |         |         |  |         |  | 26.5 |
| Mean  | 15.87 | 21.77 |  | 9.68  |  | 65.8 | 91.07 |  | 38.30 |  | 8.75  | 7.07 | 8.87  |  | 5.52 |  | 1017.39 | 1019.93 |  | 1015.08 |  |      |
| Max   | 23.02 | 29.93 |  | 15.46 |  | 81.4 | 94.70 |  | 61.32 |  | 13.31 | 9.48 | 11.15 |  | 8.63 |  | 1027.71 | 1029.64 |  | 1026.15 |  |      |
| Min   | 11.11 | 13.47 |  | 4.28  |  | 53.5 | 84.90 |  | 25.79 |  | 3.86  | 4.98 | 6.38  |  | 3.67 |  | 1000.93 | 1005.05 |  | 998.09  |  |      |

Wokingham Automatic Weather Station  
 AWS samples taken every 0.5 seconds  
 x and n refer to maximum and minimum respectively

**Readings taken at Wokingham Climatological Station, Emmbrook, Berkshire**  
**Lat 51.425 N, Long 0.853 W, NGR (SU) 798701**  
**Altitude 45 m ASL.**

Tmn = 00 to 24 GMT mean air temperature at 1.2 m, deg C  
 RHmn = 00-24 GMT mean relative humidity at 1.2 m, percent  
 TDmn = 00-24 GMT mean dew point at 1.2 m, deg C  
 rmn = 00-24 GMT mean humidity mixing ratio, g/kg  
 pmn = 00-24 GMT mean air pressure reduced to mean sea level, mbar  
 Rtot = 00-24 GMT rainfall total from AWS tipping bucket raingauge, mm  
 Time = hours and minutes in GMT of extreme values