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 To | otals | | JANUARY 2024 | | | | | | | | | | | | |
|-------------------------------------|---------------------------|--------------------|------------------------------|-------------------|--------------|------------|---------|------|--------|--|--|--|--|--|--|
| Temperature (°C) | | Anoi | maly | Rank in the pa | ıst 143 | years | | | | | | | | | |
| Mean maximum | 8.0 | -0.1 | 4 | 9th highest | | | | | | | | | | | |
| Mean minimum | 1.6 | -0.4 | . 6 | 5th highest | | | | | | | | | | | |
| Daily mean | 4.8 | -0.3 | 5 | 6th highest | | | | | | | | | | | |
| Highest maximum | 13.0 | on | 2nd L | owest maximur | n | 2.6 | | on | 17th | | | | | | |
| Highest minimum | 8.6 | on | 3rd L | owest minimun | ı | -7.4 | | on | 18th | | | | | | |
| Mean grass minimum | -0.9 | +0.2 | <u> </u> | owest grass mir | imum | -11.6 | | on | 18th | | | | | | |
| Mean earth @30 cm | 6.0 | +0.3 | 3 E | arth @100 cm | | 7.9 | | +0.2 | | | | | | | |
| Frost duration (hrs) | 114.1 | | R | ain duration (hr | s) | 45.3 | | | | | | | | | |
| Rainfall total (mm) | 58.9 | 89 9 | % 6° | 9th highest | | | | | | | | | | | |
| Highest daily fall | 23.8 | on | on 4th Highest rate mm/hr 31 | | | | | | n 22nd | | | | | | |
| Number of: Dry days (<0.2m | m) 19 Wet | days (>0.9mm) | 7 | days ≥5m | m | 3 | | | | | | | | | |
| Sunshine total (hrs) 96.8 | Daily mean | 3.12 133 | % | Sunniest | lay | 8.2 | on | 26th | | | | | | | |
| Nº days with: Air frost 11 | Ground frost 1 | 17 Snov | w falling | 1 Sno | w lying | 0 | | | | | | | | | |
| Thunder 0 | Hail ≥5mm (|) Smal | ll hail/ice | 1 Fog | @09 | 0 | Nil su | ın 6 | | | | | | | |
| Pressure MSL: Mean @09 GN | T, mbar 1018.2 | +1.9 High | nest 1039 | 9.1 on 11t | h Lov | west 9 | 976.0 | on 2 | 2nd | | | | | | |
| Relative humidity: Mean (%) | 82.6 Lowest | 46 on 2 | 20th Wa | iter vapour (g/kg |), mean at 0 | 9 and 15 G | 6MT 4.4 | 4, 4 | 1.7 | | | | | | |
| Overall mean wind speed (n | nph) 8.1 V | Vindiest day | 17.2 or | n 21st | Max gust | 63 | on | 21st | | | | | | | |
| Wind direction (days) N | 3 NE 4 | E 0 S | SE 0 | S 7 S | W 9 | W | 6 | NW 2 | 2 | | | | | | |
| Least windy day (mph) 3.9 | on 16th | Calm; less | than 0.5 mg | oh (minutes) | n/a | | | | | | | | | | |
| Anomaly = departure from 1991 to 20 | 020 average (degrees C, p | percent and mbar). | | | | | | | | | | | | | |

Anomaly = departure from 1991 to 2020 average (degrees C, percent and mbar).

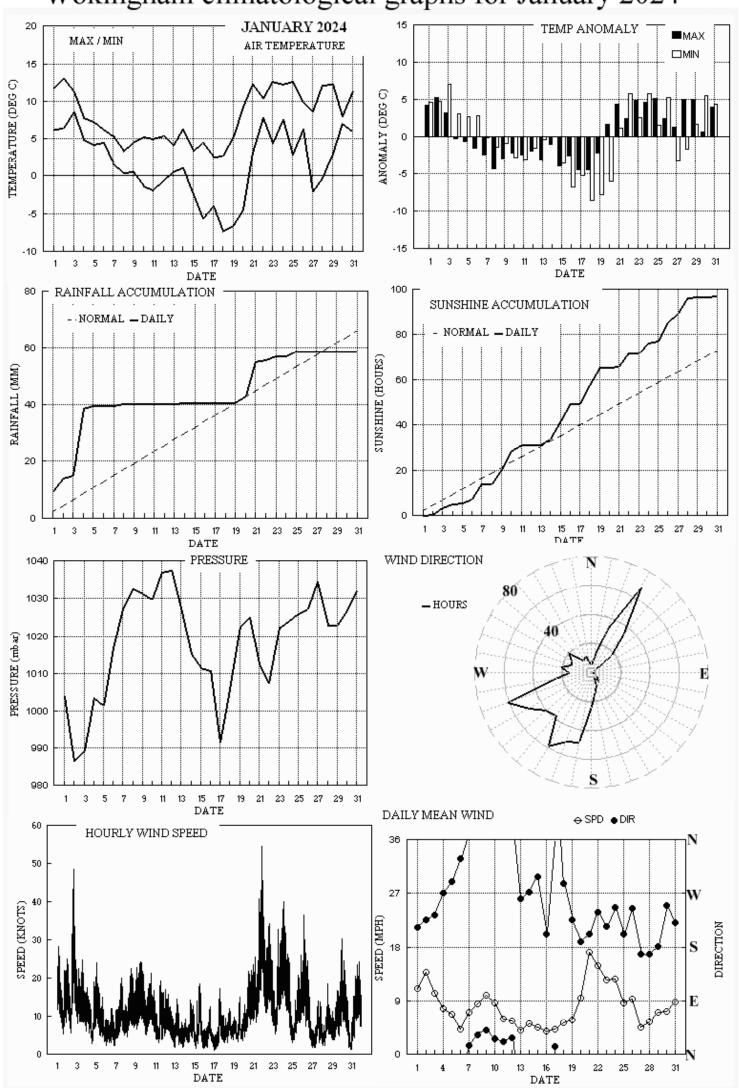
Notes: Very Sunny with Temperature and Rainfall Near Average.

Temperature: The mean this January is 0.3° below the current 30 year climatological average, but it is 0.4° above the long-term median. The mean maximum is 0.8° above the median while the mean minimum is 0.1° above its median. In this millennium, January has been colder 12 times and milder 12 times. The highest max is 0.5° above the median and the lowest max is 1.6° above its median. The highest min is 0.1° above the median while the lowest min is 1.5° below its median. The mean grass min is 0.2° above average, but the lowest grass min is 1.0° below the 45 year average and is lowest since 2015. Mean earth temperature at both 30 cm and 1 m depth is slightly above average. There was one more day with air frost than average, and the number of hours with air frost is 16 above average, but it is 31 hours less than in January last year. Anomalies for daily max were over +5° on the 2nd, 25th, 28th and 29th, and exceeded -4° on the 8th, 17th and 18th with extreme values of +5.2° on 2nd and -4.5° on 17th and 18th. Anomalies for daily min were above +5° on the 3rd, 22nd, 24th, 26th and 30th, and exceeded -5° from the 16th to the 20th, with extreme values of +7.1° on 3rd and -8.6° on the 18th. **Rainfall:** There has been plenty of dry weather this January after a rather wet start, with 4 more dry days than average. However, in recent years, in both 2022 and 2019 the count was 6 more then average. The rainfall total is only 89% of the current 30 year average, but it is 1.1 mm above the the long-term median. Rainfall was distributed very unevenly through the month, wet to the 4th and again from 19th to 21st, otherwise mainly dry. There was an unusually high daily total for January on the 4th when 23.8 mm fell over 11.8 hours, following a 10 day period when 43.6 mm had fallen, culminating in the closure of The Emmbrook School when the Emm over-topped its banks. This daily fall is highest for any January day since 1962, ranks 5th highest in 121 years, and is 10.5 mm above the average for the past 49 years. There were 3 dry spells, 2 of 5 days ending on the 13th and 19th, and one unbroken on the 31st after 7 days. Snow fell on the 8th, though very light for most of the time, but there was also a heavy fall of snow pellets on that day that produced a covering of around 1cm which had mostly thawed by the next morning. Daily accumulation compared with normal was 30mm in surplus on the 4th, this falling to zero by the 19th, then increasing to 10 mm by the 21st, then deceasing to become a deficit of 7 mm by the 31st. Sunshine: This has been a very sunny January, 2nd sunniest in this millennium after 2003. At this time of year, when daylight is at a premium, just a few sunny days can make the difference between a poor month sun-wise, and a good or sunny one, as is illustrated by this January, where 8 days had over 80% of the maximum, including 6 with over 90%. The period 15th to 19th, despite having one sunless day, gave a 5 day average of 6.3 hours per day. Daily accumulation compared with normal was 6 hours in deficit by the 6th, but became a surplus of 4 hours on the 11th, increasing to 20 hours by the 19th and 29 hours by the 28th, but fell back to 23 hours by the 31st. Overall there were 17 days with <3 hours and 9 days with =>6 hours. Wind: The mean speed this month is 0.3 mph above average and the mean on the windiest day is 1.2 mph above average. The highest gust is 12 mph above average and highest for the month since 2018.

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

| racie 1. 101 | can anom | anes (max | , mm, ram | i, suii) ioi c | peemea per | 1000. | | | | | | | | |
|--------------|--------------|---------------------|-----------|----------------|---------------------------|-------------------------|------|---------------------------------------|-------|-----|------|--|--|--|
| From | the 1st to t | he 10 th | | Fr | om the 11 th t | to the 20^{th} | | From the 21 st to the 31st | | | | | | |
| -0.2° | +2.0° | 189% | 120% | -2.4° | -4.3° | 14% | 159% | +3.6° | +2.6° | 68% | 121% | | | |

Wokingham climatological graphs for January 2024



Month: JANUARY 2024

| Date | Max | Min | Rain | Grass | 30cm | 100cm | Sun | Frost | pp09 | Af Sf | Th Ic | Vec | mean | | Max | gust | : | High | hr | | Rain |
|-------------|---------|-------|--------|-----------|---------|---------|---------|--------|--------|---------|---------|-----|------|------|-----|------|------|------|----|----|------|
| | С | С | mm | Min | С | С | hrs | hrs | mbar | Gf SI | Ha Fg | ddd | ff | sp | ddd | gg | HHhh | ddd | ff | НН | hrs |
| 1 | 11.8 | 6.3 | 9.5 | 4.0 | 8.7 | 9.7 | 0.2 | 0.0 | 1003.9 | 0 0 0 0 | 0 0 0 0 | 213 | 8.2 | 9.6 | 252 | 29 | 0355 | 247 | 14 | 03 | 8.8 |
| 2 | 13.0 | 6.4 | 4.5 | 7.1 | 8.8 | 9.6 | 0.2 | 0.0 | 986.4 | 0 0 0 0 | 0 0 0 0 | 226 | 11.1 | 12.0 | 238 | 49 | 1549 | 242 | 25 | 15 | 5.6 |
| 3 | 11.2 | 8.6 | 0.9 | 5.2 | 9.0 | 9.6 | 3.0 | 0.0 | 989.3 | 0 0 0 0 | 0 0 0 0 | 234 | 8.7 | 8.9 | 258 | 25 | 1352 | 248 | 12 | 13 | 0.6 |
| 4 | 7.8 | 4.9 | 23.8 | -0.3 | 8.8 | 9.6 | 1.7 | 0.0 | 1003.6 | 0 1 0 0 | 0 0 0 0 | 270 | 1.6 | 6.6 | 336 | 22 | 2323 | 334 | 10 | 23 | 11.8 |
| 5 | 7.3 | 4.3 | 8.0 | 2.5 | 8.4 | 9.6 | 0.6 | 0.0 | 1001.6 | 0 0 0 0 | 0 0 0 0 | 290 | 5.7 | 5.9 | 324 | 24 | 0019 | 320 | 12 | 00 | 1.7 |
| 6 | 6.3 | 4.5 | 0.0 | 2.5 | 8.2 | 9.5 | 1.7 | 0.0 | 1016.5 | 0 0 0 0 | 0 0 0 0 | 328 | 3.4 | 3.7 | 314 | 12 | 1249 | 334 | 6 | 12 | 0.0 |
| 7 | 5.4 | 1.7 | 0.0 | -2.3 | 7.7 | 9.4 | 6.5 | 0.0 | 1027.2 | 0 1 0 0 | 0 0 0 0 | 15 | 6.1 | 6.2 | 19 | 20 | 1205 | 18 | 9 | 12 | 0.0 |
| 8 | 3.4 | 0.4 | 0.7 | -4.4 | 7.1 | 9.3 | 0.0 | 0.0 | 1032.6 | 0 1 1 0 | 0 0 1 0 | 32 | 7.3 | 7.4 | 39 | 23 | 1224 | 33 | 10 | 11 | 2.6 |
| 9 | 4.5 | 0.6 | 0.0 | -0.7 | 6.5 | 9.1 | 6.6 | 4.2 | 1031.5 | 0 1 0 0 | 0 0 0 0 | 40 | 8.6 | 8.7 | 50 | 25 | 1138 | 46 | 11 | 11 | 0.0 |
| 10 | 5.2 | -1.4 | 0.0 | -7.1 | 5.8 | 8.9 | 7.7 | 8.5 | 1029.8 | 1 1 0 0 | 0 0 0 0 | 27 | 7.5 | 7.5 | 41 | 22 | 1257 | 29 | 10 | 13 | 0.0 |
| 11 | 5.0 | -1.9 | 0.1 | -7.2 | 5.1 | 8.6 | 3.1 | 9.1 | 1037.1 | 1 1 0 0 | 0 0 0 0 | 21 | 5.2 | 5.2 | 16 | 19 | 1348 | 25 | 9 | 13 | 0.7 |
| 12 | 5.4 | -0.6 | tr | 3.1 | 5.0 | 8.2 | 0.0 | 0.0 | 1037.6 | 1 0 0 0 | 0 0 0 0 | 28 | 4.7 | 4.9 | 33 | 17 | 0059 | 28 | 7 | 04 | 0.1 |
| 13 | 4.1 | 0.5 | tr | 8.0 | 5.5 | 8.0 | 0.0 | 0.0 | 1027.5 | 0 0 0 0 | 0 0 0 0 | 260 | 2.7 | 3.5 | 325 | 15 | 0538 | 309 | 6 | 05 | 0.0 |
| 14 | 6.3 | 1.0 | 0.3 | -1.5 | 5.7 | 7.9 | 2.6 | 0.0 | 1015.1 | 0 1 0 0 | 0 0 0 0 | 271 | 3.8 | 4.5 | 291 | 15 | 1301 | 298 | 7 | 13 | 0.5 |
| 15 | 3.3 | -2.5 | 0.0 | -7.1 | 5.6 | 7.8 | 7.9 | 14.3 | 1011.5 | 1 1 0 0 | 0 0 0 0 | 297 | 3.3 | 4.0 | 337 | 19 | 1322 | 335 | 9 | 12 | 0.0 |
| 16 | 4.5 | -5.7 | 0.0 | -9.0 | 4.7 | 7.7 | 7.6 | 16.6 | 1010.6 | 1 1 0 0 | 0 0 0 0 | 202 | 3.1 | 3.4 | 237 | 13 | 1358 | 216 | 7 | 13 | 0.0 |
| 17 | 2.6 | -4.1 | 0.0 | -7.6 | 4.0 | 7.5 | 0.0 | 16.4 | 991.6 | 1 1 0 0 | 0 0 0 0 | 13 | 3.5 | 3.7 | 22 | 17 | 1457 | 20 | 8 | 14 | 0.0 |
| 18 | 2.7 | -7.4 | 0.0 | -11.6 | 3.7 | 7.2 | 8.0 | 17.5 | 1005.5 | 1 1 0 0 | 0 0 0 0 | 286 | 4.1 | 4.6 | 302 | 12 | 1335 | 302 | 6 | 11 | 0.0 |
| 19 | 5.3 | -6.6 | 0.0 | -9.8 | 3.4 | 7.0 | 8.0 | 14.9 | 1022.5 | 1 1 0 0 | 0 0 0 0 | 225 | 4.7 | 5.1 | 237 | 15 | 1405 | 244 | 8 | 13 | 0.0 |
| 20 | 9.2 | -4.6 | 2.5 | -6.5 | 3.1 | 6.7 | 0.1 | 2.7 | 1024.9 | 1 1 0 0 | 0 0 0 0 | 189 | 8.2 | 8.2 | 188 | 22 | 1850 | 187 | 10 | 18 | 2.2 |
| 21 | 12.2 | 3.1 | 12.0 | 1.7 | 3.0 | 6.5 | 0.5 | 0.0 | 1012.6 | 0 0 0 0 | 0 0 0 0 | 201 | 14.8 | 14.9 | 207 | 55 | 2105 | 206 | 24 | 20 | 6.4 |
| 22 | 10.3 | 7.8 | 0.7 | 5.0 | 4.3 | 6.3 | 5.8 | 0.0 | 1007.4 | 0 0 0 0 | 0 0 0 0 | 239 | 12.9 | 13.0 | 207 | 36 | 0037 | 227 | 16 | 01 | 1.2 |
| 23 | 12.7 | 4.4 | 1.4 | -0.1 | 4.9 | 6.3 | 0.0 | 0.0 | 1022.1 | 0 1 0 0 | 0 0 0 0 | 214 | 10.5 | 10.9 | 239 | 36 | 2324 | 224 | 17 | 21 | 1.1 |
| 24 | 12.2 | 7.5 | tr | 7.0 | 5.8 | 6.4 | 4.7 | 0.0 | 1024.1 | 0 0 0 0 | 0 0 0 0 | 246 | 10.8 | 11.0 | 259 | 40 | 0219 | 251 | 20 | 02 | 0.0 |
| 25 | 12.6 | 2.9 | 1.6 | -1.4 | 6.1 | 6.6 | 0.5 | 0.0 | 1026.0 | 0 1 0 0 | 0 0 0 0 | 201 | 7.3 | 7.5 | 218 | 26 | 2141 | 206 | 12 | 22 | 1.7 |
| 26 | 9.9 | 6.3 | 0.0 | 3.2 | 6.8 | 6.7 | 8.2 | 0.0 | 1027.2 | 0 0 0 0 | 0 0 0 0 | 245 | 7.4 | 8.0 | 253 | 37 | 0435 | 256 | 14 | 05 | 0.0 |
| 27 | 8.6 | -2.1 | 0.0 | -6.1 | 6.2 | 6.9 | 4.0 | 8.8 | 1034.4 | 1 1 0 0 | 0 0 0 0 | 168 | 3.6 | 4.0 | 178 | 14 | 1426 | 184 | 7 | 14 | 0.0 |
| 28 | 12.1 | -0.4 | 0.0 | -3.8 | 5.6 | 7.0 | 6.9 | 1.1 | 1022.9 | 1 1 0 0 | 0 0 0 0 | 168 | 4.2 | 4.7 | 172 | 19 | 1336 | 173 | 7 | 13 | 0.0 |
| 29 | 12.2 | 3.0 | tr | 5.1 | 6.0 | 7.0 | 0.3 | 0.0 | 1022.9 | 0 0 0 0 | 0 0 0 0 | 181 | 6.0 | 6.1 | 211 | 28 | 2358 | 199 | 10 | 23 | 0.0 |
| 30 | 8.0 | 7.1 | 0.0 | 7.1 | 6.9 | 7.0 | 0.0 | 0.0 | 1026.7 | 0 0 0 0 | 0 0 0 0 | 249 | 4.9 | 6.3 | 205 | 30 | 0023 | 204 | 14 | 00 | 0.0 |
| 31 | 11.4 | 6.0 | 0.1 | 4.4 | 6.9 | 7.2 | 0.4 | 0.0 | 1032.1 | 0 0 0 0 | 0 0 0 0 | 220 | 7.5 | 7.7 | 220 | 25 | 1808 | 222 | 12 | 18 | 0.3 |
| Total | | | 58.9 | | | | 96.8 | 114.1 | | | | | | | | | | | | | 45.3 |
| Mean | 8.0 | 1.6 | | -0.9 | 6.0 | 7.9 | 3.12 | 3.7 | 1018.2 | | | 236 | 3.0 | 7.0 | | | | | | | |
| Anom | -0.1 | -0.4 | 89% | +0.2 | +0.3 | +0.2 | 133% | | +1.9 | | | | | | | | | | | | |
| Daily me | an | 4.8 | | Pressu | re, abs | highest | t = | 1039.1 | on 11 | | | | | | | | | | | | |
| Anom | | -0.3 | - | Pressu | re, abs | lowest | = | 976.0 | on 2 | | | | | | | | | | | | |
| Number | of days | with: | | | | | | | | | | | | | | | | | | | |
| Air frost : | = 11 | (| Ground | l frost = | : 17 | 1 | Nil sun | = 6 | | | | | | | | | | | | | |

Air frost = 11 Ground frost = 17 Nil sun = 6
Snow falling = 1 Snow lying = 0 Thunder = 0
Hail=>5mm = 0 Hail<5mm or ice = 1 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, <.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. SI = Snow lying at 09 GMT.

Th = Thunder. Ha = Hail =>5mm. Ic = Hail <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.

 $\label{eq:maxgust} \mbox{Max gust} = \mbox{Highest gust in 24 hours, gg} = \mbox{speed in knots, HHhh} = \mbox{Time, hours and minutes, GMT}.$

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.

Maximum daily rain rate in mm/hr

All temperatures in degrees Celsius.

Anomaly - Departure from the 1991 to 2020 climatological average

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for JANUARY 2024 Date VV N dd ff gg TT TdTd RH PPP a pppwwW1W2 NhCl hCrChNChshs NChshs NChshs Date Remarks 68 6 23 11 18 6.4 3.4 81 4.9 1003.9 2 025 02 2 2 3 0 9 7 2 83365 86070 2 50 8 14 06 11 10.5 9.9 96 7.8 986.4 7 038 63 6 2 5 7 2 2 / 83705 83620 88540 989.3 7 002 02 1 1 3 8 5 7 1 81825 83635 3 1Ac60 2Ci75 Cu hum 4 21 09 17 9.1 6.7 85 68 6 21 07 12 5.7 3.7 87 5.0 1003.6 1 007 02 1 1 0 0 9 0 1 82072 85080 4 COTRA 1001.6 2 023 02 2 2 1 5 6 1 2 81645 85464 87270 5 COTRA U/a cont 5 82 7 28 04 12 4.5 3.0 90 4.8 6 50 7 34 04 08 4.9 4.0 94 5.0 1016.5 2 032 80 8 2 7 5 3 / / 81706 85612 86625 6 /Sc40 84 36 06 12 2.9 0.0 81 3.7 1027.2 2 016 02 2 2 7 5 6 / / 81635 87642 7 Edge Sc sheet E 7 02 07 16 2.4 -3.3 66 2.9 1032.6 1 002 14 2 2 7 5 6 / / 87645 8 Sc vir Hoar slt 78 05 09 20 1.4 -2.4 76 3.1 1031.5 3 008 02 2 2 6 5 5 4 0 86522 9 2Ac66 Ac len Sn ly <10%<1cm 9 10 0 03 08 16 0.3 -2.7 1029.8 2 005 02 0 0 0 0 9 0 0 10 Hoar mod Gnd sfc frzn 82 80 3.0 1037.1 2 017 03 0 0 1 5 4 0 0 81618 11 70 02 03 07 -0.6 -1.0 97 3.4 11 Hoar mod Gnd sfc frzn 12 70 8 02 06 13 4.6 2.3 85 4.4 1037.6 4 000 50 5 2 8 5 4 / / 88614 12 1027.5 7 017 05 2 2 8 6 3 / / 13 57 8 24 03 11 1.0 -0.8 88 3.5 13 14 50 6 22 04 08 1.9 1.0 94 4.1 1015.1 7 008 10 1 1 656/1 14 1Ci75 86635 15 82 3 25 05 08 -0.4 -2.6 85 1011.5 3 015 03 0 0 3 5 6 0 0 81635 83650 15 Hoar slt Gnd sfc frzn 3.1 16 63 19 03 07 -4.1 -4.9 94 2.6 1010.6 8 008 01 1 1 1 5 7 0 0 81650 16 Hoar mod 17 75 8 05 02 05 -1.1 -3.0 87 3.1 991.6 7 017 02 2 2 7 5 6 2 / 84630 86638 88464 17 Hoar slt Gnd sfc frzn 0 26 03 08 -4.6 -7.2 1005.5 2 031 02 0 0 0 0 9 0 0 18 75 82 2.2 18 Hoar mod Gnd frzn 19 82 26 03 06 -4.7 -5.4 95 2.5 1022.5 1 015 02 0 0 0 0 9 0 1 81075 19 Hoar mod. Gnd frzn Wind est until further notice 20 82 8 19 07 14 3.1 -0.4 1024.9 7 002 03 2 2 6 0 9 1 7 86461 88268 20 COTRA Hoar slt Gnd frzn 78 3.6 21 60 22 11 21 9.1 7.9 92 6.6 1012.6 1 012 05 6 2 1 6 4 7 1 81710 83363 86366 21 /Ci72 22 68 23 10 27 7.9 4.3 78 5.2 1007.4 2 042 02 0 0 2 8 5 0 0 82827 22 1Sc56 Cu fra Wind OK 23 18 06 11 7.5 6.6 94 6.0 1022.1 8 025 61 6 2 83708 23 24 60 8 24 12 33 9.4 76 5.5 1024.1 2 0 3 6 0 5 2 2 0 0 9 0 7 24 COTRA 5.4 88275 25 1026.0 6 007 60 5 2 7 8 3 2 / 25 8As65 Cu med 62 8 19 06 10 9.6 8.8 95 6.9 83706 83812 85640 26 86 26 08 18 6.6 0.7 66 3.9 1027.2 2 062 02 0 0 0 0 9 0 1 81075 26 Parhelion 27 62 16 02 07 -0.2 -0.5 98 3.6 1034.4 0 002 03 2 2 7097/ 87464 27 /Ac66 COTRA Hoar mod 28 COTRA Parhelion Hoar slt 28 67 14 05 08 2.8 2.5 98 4.5 1022.9 7 011 02 2 2 81365 29 56 8 19 06 12 10.1 8.9 92 7.0 1022.9 3 011 05 2 2 8 6 2 / / 86705 29 30 7 26 06 20 7.7 4.1 78 5.0 1026.7 2 035 02 2 2 7 5 4 / / 82618 30 88 31 /Ci72 31 86 7 23 09 17 6.7 1.8 71 4.2 1032.1 6 011 02 2 2 8 5 5 / /

Mean vis = 25.6 km
Mean cloud = 5.6 70%
Mean wind speed = 6.2 kn
Mean gust = 13 kn
Mean TT = 3.9 °C
Mean TdTd = 1.6 °C
Mean RH = 85.8 %
Mean r = 4.4 g/kg

See appendix 2 below for full code details

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

Mean PPP = 1018.2 mbar

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

TdTd = 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

CI = 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 JANUARY 2024 Date VV N dd ff gg TT TdTd RH PPP a pppwwW1W2 NhCl hCrChNChshs NChshs NChshs Date Remarks 64 8 17 07 11 8.7 5.8 82 5.8 1002.5 6 025 60 6 2 4 5 5 2 / 81620 84635 88556 2 80 3 24 22 43 11.1 7.0 76 6.4 978.1 5 021 25 8 6 2 1 5 8 0 82820 2 2Ac62 Ac flo 990.4 3 011 80 8 1 3 4 4 4 3 83818 83068 3 1Sc45 1Ac59 Cu med Ac len Cb top SW 6 27 09 22 9.9 7.8 87 6.7 40 8 09 04 07 7.1 6.2 94 6.0 998.9 7 034 65 6 2 6 7 4 2 / 86712 88530 1004.4 2 011 02 2 2 7 8 4 / / 81815 87635 5 84 7 29 07 13 7.2 4.3 82 5.2 5 Cu fra 6 80 2 35 04 10 5.6 2.8 82 4.6 1018.8 3 009 01 1 1 2 8 4 0 0 81815 6 2Sc35 Cu hum 81 3 02 08 18 3.6 -2.1 66 3.2 1028.6 3 003 03 0 0 3 5 6 0 0 83645 1031.9 5 007 72 7 2 8 5 4 / / 15 8 06 10 21 0.7 -1.1 88 3.4 83615 86625 88640 8 Sn+sn pel. Snly 60%<1cm 04 10 24 2.8 -2.1 70 3.2 1030.3 6 010 01 0 0 1 1 5 0 0 81825 9 82 9 Cu fra 10 1 02 10 19 4.0 -1.6 1028.6 6 009 02 0 0 1 1 5 4 1 81820 10 1Ac66 1Ci75 Cu fra 86 67 3.3 1038.4 6 001 03 2 2 8 5 4 / / 11 83 8 02 05 17 4.1 8.0 79 3.9 88617 11 12 82 8 04 04 10 5.3 2.5 82 4.4 1034.9 6 020 02 2 2 8 5 4 / / 88615 12 8 21 02 06 4.1 1023.4 7 024 02 2 2 8 5 4 / / 13 72 1.3 82 4.1 14 82 29 05 14 6.0 1.0 70 4.1 1011.4 7 020 15 1 1 7 8 5 / / 82825 87650 14 Cu hum jpNW 15 88 3 32 08 16 -7.2 1012.2 5 003 02 0 0 0 0 9 0 1 83080 15 COTRA Parhelia Hoar slt in shade 1.9 51 2.2 16 COTRA Hoar slt in shade 16 83 3 24 05 12 3.5 -4.2 57 2.8 1006.3 7 029 03 0 0 1 5 7 0 5 81650 83280 17 68 8 02 08 17 2.1 -1.0 80 3.6 990.7 5 001 02 2 2 8 5 4 / / 88615 17 1010.8 2 018 02 0 0 0 0 9 0 0 18 Hoar slt in shade. Anemo failed, wind est until further notice 18 0 33 06 13 2.5 -3.8 63 2.9 19 82 24 07 17 4.1 -1.3 68 3.4 1022.9 7 002 02 0 0 0 0 9 0 1 81078 19 Hoar mod in shade 7 20 11 21 5.9 -2.4 55 1022.2 7 021 02 2 2 1 5 5 7 2 81520 83359 86365 20 /Ci70 Ac vir 20 84 3.1 1009.8 7 023 05 2 2 6 5 4 3 7 21 59 8 21 18 38 11.7 8.4 80 6.8 86617 83363 88270 21 22 75 3 25 14 33 9.5 4.1 69 5.1 1011.0 2 013 15 1 1 3 4 6 0 0 82830 22 1Sc50 Cu med jpW Wind OK 23 8 20 10 22 10.9 10.3 96 7.7 1015.0 6 028 51 5 5 8 7 2 / / 24 65 25 11 25 11.3 4.7 64 1026.8 1 008 03 2 2 2 1 6 7 1 24 /Ci75 Cu hum 5.2 82832 87362 25 7 018 03 2 2 7 5 4 / 1 87615 21 09 21 12.5 9.3 81 7.2 1022.9 25 /Ci75 84 26 1Ci80 COTRA Cu fra 26 83 27 07 20 8.9 -0.1 53 3.7 1032.0 2 012 02 0 0 1 1 6 0 1 81835 27 80 18 08 14 8.0 3.1 71 4.6 1031.4 6 023 02 2 2 1 4 5 4 7 81628 87272 27 1Ac65 COTRA 1019.5 7 020 02 2 2 2 0 9 4 1 82369 28 COTRA Parhelion 28 15 08 14 11.9 6.8 71 6.1 83073 87078 29 65 8 19 06 17 11.4 8.6 83 6.9 1021.1 7 014 03 2 2 1 6 4 7 7 81712 85368 88272 29 1Ac63 St fra 30 Cu hum 30 8 30 07 14 8.0 3.1 71 4.6 1030.8 1 014 02 2 2 8 8 5 / / 83824 88628 88 31 80 8 21 11 24 9.8 6.3 79 5.8 1027.2 6 031 03 2 2 8 5 4 / / 86618 31

Mean vis = 34.0 km
Mean cloud = 5.5 69%
Mean wind speed = 8.4 kn
Mean gust = 18 kn
Mean TT = 6.9 °C
Mean TdTd = 2.5 °C
Mean RH = 74.2 %

Mean PPP = 1017.2 mbar

Mean r = 4.7 g/kg

See appendix 2 below for full code details

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

TdTd = 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

CI = 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

| Wokingham | Hour 0 | 1-Jan | 02-Jan | 03-Jan | 04-Jan | 05-Jan | 06-Jan | 07-Jan | 08-Jan | 09-Jan | 10-Jan | 11-Jan | 12-Jan | 13-Jan | 14-Jan | 15-Jan | 16-Jan |
|-----------|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Sunshine | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hourly | 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| analysis | 2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| • | 3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2024 | 4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8 | 0.00 | 0.00 | 0.26 | 0.44 | 0.00 | 0.00 | 0.45 | 0.00 | 0.00 | 0.53 | 0.53 | 0.00 | 0.00 | 0.25 | 0.60 | 0.63 |
| | 9 | 0.00 | 0.00 | 0.53 | 1.00 | 0.10 | 0.08 | 1.00 | 0.00 | 0.53 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 |
| | 10 | 0.17 | 0.00 | 0.50 | 0.29 | 0.00 | 0.00 | 0.91 | 0.00 | 0.97 | 1.00 | 0.72 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 |
| | 11 | 0.04 | 0.00 | 0.11 | 0.00 | 0.00 | 0.00 | 0.94 | 0.00 | 1.00 | 1.00 | 0.14 | 0.00 | 0.00 | 0.12 | 1.00 | 1.00 |
| | 12 | 0.00 | 0.00 | 0.09 | 0.00 | 0.11 | 0.07 | 0.78 | 0.00 | 1.00 | 1.00 | 0.48 | 0.00 | 0.00 | 0.88 | 1.00 | 1.00 |
| | 13 | 0.00 | 0.01 | 0.92 | 0.00 | 0.39 | 0.34 | 1.00 | 0.00 | 1.00 | 1.00 | 0.26 | 0.00 | 0.00 | 0.84 | 1.00 | 1.00 |
| | 14 | 0.00 | 0.17 | 0.30 | 0.00 | 0.00 | 0.56 | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.50 | 1.00 | 1.00 |
| | 15 | 0.00 | 0.01 | 0.26 | 0.00 | 0.00 | 0.68 | 0.39 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.97 |
| | 16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.08 | 0.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 |
| | 17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 21 22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 0.00 |
| | 23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Tot | 0.00 0.21 | 0.00 | 2.96 | 1.73 | | | | | | | 3.13 | 0.00 | | | | |
| | 101 | 0.21 | 0.19 | 2.90 | 1./3 | 0.60 | 1.72 | 6.49 | 0.00 | 6.58 | 7.65 | ა. 1 ა | 0.00 | 0.00 | 2.60 | 7.85 | 7.60 |
| | | - | - | | | | | | | | | | | | | | |
| | Hour 1 | 7-Jan | 18-Jan | 19-Jan | 20-Jan | | | | | 25-Jan | | | | | | | |
| | Hour 1 0 | 7-Jan 0.00 | 18-Jan 0.00 | 19-Jan 0.00 | 20-Jan 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Hour 1 0 1 | 7-Jan 0.00 0.00 | 18-Jan 0.00 0.00 | 19-Jan 0.00 0.00 | 20-Jan 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | Hour 1 0 1 2 | 7-Jan 0.00 0.00 0.00 | 18-Jan 0.00 0.00 0.00 | 19-Jan 0.00 0.00 0.00 | 20-Jan 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |
| | Hour 1 0 1 2 3 | 7-Jan 0.00 0.00 0.00 0.00 | 18-Jan 0.00 0.00 0.00 0.00 | 19-Jan 0.00 0.00 0.00 0.00 | 20-Jan 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |
| | Hour 1 0 1 2 3 4 | 7-Jan 0.00 0.00 0.00 0.00 0.00 | 18-Jan 0.00 0.00 0.00 0.00 0.00 | 19-Jan 0.00 0.00 0.00 0.00 0.00 | 20-Jan 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| | Hour 1 0 1 2 3 4 5 | 7-Jan 0.00 0.00 0.00 0.00 0.00 0.00 | 18-Jan 0.00 0.00 0.00 0.00 0.00 0.00 | 19-Jan 0.00 0.00 0.00 0.00 0.00 0.00 | 20-Jan 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| | Hour 1 0 1 2 3 4 5 6 | 7-Jan 0.00 0.00 0.00 0.00 0.00 0.00 | 18-Jan 0.00 0.00 0.00 0.00 0.00 0.00 | 19-Jan 0.00 0.00 0.00 0.00 0.00 0.00 | 20-Jan 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 |
| | Hour 1 0 1 2 3 4 5 6 7 | 7-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 18-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 19-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 20-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| | Hour 1 0 1 2 3 4 5 6 7 | 7-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 18-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 19-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 20-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
| | Hour 1 0 1 2 3 4 5 6 7 8 9 | 7-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 18-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 19-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 20-Jan 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.35 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 |
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| 16 | 14 | 3.29 | 6.3 | 1318 | 0.3 | 0 | 84.9 | 94.8 | 846 | 67.6 | 1325 | 0.9 | 4.0 | 4.6 | 1726 | 3.3 | 2359 1013.88 | 1019.3 | 2 | 1010.9 | 1646 | 0.3 |
| 17 | 15 | -0.39 | 3.3 | 1320 | -4.6 | 2359 | 76.9 | 95.4 | 352 | 49.3 | 1444 | -4.2 | 2.8 | 3.4 | 212 | 2.1 | 1706 1012.05 | 1014.3 | 2156 | 1009.8 | 457 | 0 |
| 18 | 16 | -1.67 | 4.5 | 1258 | -5.7 | 511 | 81.3 | 95.6 | 839 | 55.2 | 1448 | -4.7 | 2.7 | 3.0 | 1110 | 2.3 | | 1014.0 | 0 | 999.9 | 2359 | 0.1 |
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Wokingham Automatic Weather Station AWS samples taken every 0.5 seconds x and n refer to maximum and minimum respectively

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
Time = hours and minutes in GMT of extreme values

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

Temperature and humidity are from an aspirated Vaisala HMP45 unit
Pressure is from a Setra CS100 sensor
Data is logged on a Campbell Scientific CR10X measurement and control system
R tot = Rainfall from TBR, uncorrected

Explanation and definition of some of the terms used in the Wokingham Weather Reports.

Average: Generally refers to the 30 year climatological average, currently 1981 to 2010. This will be next updated in 2020. For some parameters, notably wind, the climatological average is not available, and if the word average is used in the context of wind, it refers to the average for the period for which data is held, namely 1988 to present.

For sunshine, there was a change, in July 1999, in the type of instrument used to detect sunshine amount, making the climatological average based on the old instrument of little use. In general, the new instrument produces higher values in the winter half year, and lower ones in the summer half, than the old type, due to a combination of faster reaction and higher sensitivity than the old type. The average used in this case is based on a theoretical equivalent 1981 to 2010 average, drawn from comparison with the Met Office published tables of departure from climatological average sunshine in the months since 2000 for their area 'Southern England'. Users of the Wokingham Monthly Weather reports should be aware of this, and regard anomalies for sunshine published therein as a guide only, until such time has elapsed since the introduction of the new instrument that a genuine average becomes available.

Mean: The mean of the data under discussion, often the monthly mean of daily data. The mean is obtained by summation of the individual values and dividing by the number of values. The term 'daily mean' in respect of temperature is defined as '(max + min) / 2'. A true daily 24 hour (00 to 24 GMT) mean temperature is available from the Automatic Weather Station (AWS), and is currently published on page 7 of the Wokingham Monthly Weather report, on the Wokingham Weather web site, page 1. http://www.woksat.info/wwp1.html

Anomaly: When a value is given for anomaly, this will have one of the following meanings:

- a): The departure of a mean from the current climatological average.
- b): The departure of a value on a particular day from the average for that day, (this need not be a climatological average).

When the word anomaly is used in respect of temperature, any values given are in °C. In respect of rainfall or sunshine, percent. In respect of wind, mph. In respect of pressure, millibars (hpa).

Categories: Reference may be made in the reports to 'categories'. Each category has a strict statistical range, as outlined below.

Temperature: The terms cold/mild are used in the winter half year, and cool/warm in the summer half. The term 'normal' is used when the individual mean (monthly, seasonal or annual) value is within 20 % of the median of all ranked values for that month/season/year.

Mild/warm: The value lies between 10 % and 30 % below the highest value in the ranked series.

Very mild/very warm: The value lies within 10 % of the highest value in the ranked series.

Cold/cool: The value lies between 10 % and 30 % above the lowest value in the ranked series.

Very cold/very cool: The value lies within 10 % of the lowest value in the ranked series.

Sunshine: The terms for sunshine are very sunny, sunny, normal, dull and very dull.

The definition of these terms follow the same rules as for temperature.

Rainfall: The terms for rainfall are very dry, dry, normal, wet and very wet.

The definition of the term 'normal' follows the same rule as for temperature and sunshine.

Wet: The value lies between 10 % and 30% of the highest value in the ranked series.

Very wet: The value lies within 10 % of the highest value in the ranked series.

Dry: The value lies between 10 % and 30 % above the lowest value in the ranked series.

Very dry: The value lies within 10 % of the lowest value in the ranked series.

Long-term: Mention may be made in the reports to the 'long-term'. The long-term record comprises a temperature/rainfall/sunshine data series compiled from records of various weather stations in the Wokingham area in the years prior to the establishment of the weather station at Emmbrook in 1976 together with data from this station.

In the case of monthly max, min and mean temperature and of rainfall total the series starts in 1882. For temperature extremes, the highest max and lowest min go back to 1904, and lowest max and highest min to 1913.

Rank: The word rank refers to the position of a value for a particular month/season/year in the ranked series, and may be expressed relative to either the highest or lowest value in the series. The central value in the ranked series is known as the **median**. This value may be different from the average of the whole series if the population is skewed. It can also be different from the climatological average which only refers to a 30 year period.

Month: Calendar month.
Season: Spring, March to May.

Summer, June to August

Autumn, September to November Winter, December to February.

When discussing 'winter', if a single year is given this refers to the year in which the January/February fall. **Annual or Year:** The calendar year, 1st January to 31st December.

The climatological day: runs from 0900 to 0900 GMT. The max temperature and rainfall read at 0900 hours are attributed to the previous day (thrown back), as is the duration of measurable rain. The min temperature and grass min read at 0900 hours are attributed to the day of reading. Pressure read at 0900 GMT, and the monthly mean pressure is the mean of the 0900 GMT readings. Sunshine data, wind data, rainfall rate data and 24 hour data from the AWS use the normal 00-24 GMT day.

Frost: An air frost day is recorded when the minimum temperature read at 0900 GMT on that day is -0.1°C or below. A ground frost day is recorded when the grass minimum temperature read at 0900 GMT on that day is -0.1°C or lower.

Duration of air frost is defined as the number of minutes that the AWS one minute average temperature is below 0.0°C, and the day runs from midnight to midnight.

Snow: A day with snow falling is triggered if snow falls at any time in the 24 hours from midnight on that day. A day with snow lying is entered if there is at least 50% snow cover at the 0900 GMT observation. Snow depth is the depth of undrifted snow. Snow that collects in the raingauge funnel is melted and the amount recorded as rainfall.

Hail: A day of hail is recorded if hailstones 5 mm or more in diameter are observed or recorded on the hail pad in a 24 hour period starting at midnight.

A day of small hail is recorded if hailstones less than 5 mm diameter are observed or recorded in a 24 hour period starting at midnight. The term small hail also includes various other types of ice meteor such as ice pellets, snow grains and some types of snow pellets.

Fog: A day with fog is recorded if the horizontal visibility at 0900 GMT is below 1000 m.

Thunder: A day of thunder is recorded if thunder is heard in the 24 hour period from midnight on that day. The appearance of lightning without thunder being heard does not qualify as a thunder day.

Trace of rainfall: A trace of rain, entered as 'tr' in the daily log, is recorded if rain is observed to fall but is of insufficient quantity to collect in the raingauge, or if the amount of rain in the gauge is less than 0.05 mm.

Dry spell: A dry spell is defined as a period of 5 or more consecutive dry days.

Dry day: A dry day is one with less than 0.2 mm of rainfall. **Rain day:** A rain day is one with 0.2 mm or more of rainfall. **Wet day:** A wet day is one having 1.0 mm or more of rainfall.

Appendix 2.

Explanation and decode for code figures used in the Wokingham 0900 and 1500 GMT observations

VV: Visibility.

Code figures 00 to 50 are in km and tenths e.g. 01 = 0.1 km = 100 m, 33 = 3.3 km, 50 = 5.0 km

Code figures 60 to 80. Subtract 50 to obtain visibility in km. e.g. 56 = 6 km, 65 = 15 km, 77 = 27 km.

Code figures 81 to 89. Subtract 50 and add 5 for every one above 80. e.g. 83 = 45 km, 86 = 60 km.

Code figure 89 = visibility above 70 km.

N: Total cloud amount in okta (eighths of sky covered). 9 = sky obscured (e.g. by fog or snow)

dd: Wind direction in tens of degrees from true north. Wind is measured at a height of 10 m, and the direction is the mean over a period of 10 minutes ending at the observation time.

ff: Wind speed in knots, measured at 10 m, and is the mean over a period of 10 minutes ending at observation time.

gg: Wind gust in knots at 10 m. The highest gust in the 60 minutes up to observation time.

TT: Air temperature at 1.2m, degrees C and tenths.

TdTd: Dew point temperature at 1.2m, degrees C and tenths.

RH: Relative humidity at 1.2m, %.

r: Humidity mixing ratio (amount of water vapour per kg of air), grams and tenths.

PPP: Air pressure reduced to MSL, millibars and tenths.

a: Characteristic of pressure tendency during the past 3 hours.

Code figures 0 to 3, pressure higher than 3 hours ago, 5 to 8, pressure lower than 3 hours ago

Code figure 0 = Increasing then decreasing, pressure the same as or higher than 3 hours ago

- 1 = Increasing then steady or increasing more slowly
- 2 = Increasing steadily or unsteadily
- 3 = Decreasing or steady then increasing, or increasing then increasing more rapidly
- 4 = Steady, pressure the same as 3 hours ago
- 5 = Decreasing then increasing, pressure lower than 3 hours ago
- 6 = Decreasing then steady or decreasing more slowly
- 7 = Decreasing steadily or unsteadily
- 8 =Steady or increasing then decreasing, or decreasing then decreasing more rapidly

ppp: 3 hour pressure tendency in tenths of a millibar

ww: Present weather code figures, 00 to 99.

Present weather decode:

- 00 = Cloud development not observed or not observable
- 01 = Clouds generally dissolving or becoming less developed
- 02 =State of sky on the whole unchanged
- 03 = Clouds generally increasing or becoming more developed
- 04 = Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes.
- 05 = Haze, visibility reduced by extremely small dry particles (RH less than appx. 95 %)
- 06 = Widespread dust in suspension, not raised by the wind near the station at the time of the observation
- 07 = Dust or sand raised by the wind at or near the station at the time of the observation, but no well-developed dust whirls or sand whirls, and no duststorm or sandstorm seen: In marine environments, blowing spray at the station.
- 08 = Well-developed dust or sand whirls seen at or near the station during the preceding hour or at the time of the observation, but no duststorm or sandstorm.
- 09 = Duststorm or sandstorm within sight at the time of the observation, or at the station during the preceding hour

- 10 = Mist
- 11 = Patches of shallow fog not deeper than 2 metres on land
- 12 = More or less continuous shallow fog not deeper than 2 metres on land
- 13 = Lightning visible, no thunder heard
- 14 = Precipitation within sight, not reaching the ground
- 15 = Precipitation within sight, reaching the ground more than 5 km from the station
- 16 = Precipitation within sight, reaching the ground, near to but not at the station
- 17 = Thunderstorm, but no precipitation at the time of the observation
- 18 = Squalls at or within sight of the station at the time of the observation or during the preceding hour
- 19 = Funnel cloud(s) at or within sight of the station at the time of the observation or during the preceding hour
- 20 = Drizzle (not freezing) at the station during the preceding hour but not at the time of the observation
- 21 = Rain (not freezing) at the station during the preceding hour but not at the time of the observation
- 22 = Snow at the station during the preceding hour but not at the time of the observation
- 23 = Rain and snow or ice pellets at the station during the preceding hour but not at the time of the observation
- 24 = Freezing drizzle or freezing rain at the station during the preceding hour but not at the time of the observation
- 25 = Shower(s) of rain at the station during the preceding hour but not at the time of the observation
- 26 = Shower(s) of snow or rain and snow at the station during the preceding hour but not at the time of the observation
- 27 = Shower(s) of hail or rain and hail at the station during the preceding hour but not at the time of the observation
- 28 = Fog or ice fog at the station during the preceding hour but not at the time of the observation
- 29 = Thunderstorm, with or without precipitation at the station during the preceding hour but not at the time of the observation
- 30 = Slight or moderate duststorm or sandstorm has decreased during the preceding hour
- 31 = Slight or moderate duststorm or sandstorm with no appreciable change during the past hour
- 32 = Slight or moderate duststorm or sandstorm has begun or increased during the past hour
- 33 = Severe duststorm or sandstorm has decreased during the preceding hour
- 34 = Severe duststorm or sandstorm with no appreciable change during the past hour
- 35 = Severe duststorm or sandstorm has begun or increased during the past hour
- 36 = Slight or moderate drifting snow generally below eye level
- 37 = Heavy drifting snow generally below eye level
- 38 = Slight or moderate blowing snow generally above eye level
- 39 = Heavy blowing snow generally above eye level
- 40 = Fog or ice fog at a distance at the time of the observation, but not at the station during the preceding hour, the fog extending to a level above that of the observer.
- 41 = Fog or ice fog in patches
- 42 = Fog or ice fog, sky visible has become thinner during the past hour
- 43 = Fog or ice fog, sky invisible has become thinner during the past hour
- 44 = Fog or ice fog, sky visible no appreciable change during the past hour
- 45 = Fog or ice fog, sky invisible no appreciable change during the past hour
- 46 = Fog or ice fog, sky visible has begun or become thicker during the past hour
- 47 = Fog or ice fog, sky invisible has begun or become thicker during the past hour
- 48 = Fog, depositing rime, sky visible
- 49 = Fog depositing rime, sky invisible
- 50 = Drizzle, not freezing, intermittent slight at time of observation
- 51 = Drizzle, not freezing, continuous slight at time of observation
- 52 = Drizzle, not freezing, intermittent moderate at time of observation
- 53 = Drizzle, not freezing, continuous moderate at time of observation
- 54 = Drizzle, not freezing, intermittent heavy at time of observation
- 55 = Drizzle, not freezing, continuous heavy at time of observation
- 56 = Drizzle, freezing, slight
- 57 = Drizzle, freezing, moderate or heavy (dense)
- 58 = Drizzle and rain, slight
- 59 = Drizzle and rain, moderate or heavy

- 60 = Rain, not freezing, intermittent slight at time of observation
- 61 = Rain, not freezing, continuous slight at time of observation
- 62 = Rain, not freezing, intermittent moderate at time of observation
- 63 = Rain, not freezing, continuous moderate at time of observation
- 64 = Rain, not freezing, intermittent heavy at time of observation
- 65 = Rain, not freezing, continuous heavy at time of observation
- 66 = Rain, freezing, slight
- 67 = Rain, freezing, moderate or heavy
- 68 = Rain or drizzle and snow, slight
- 69 = Rain or drizzle and snow, moderate or heavy
- 70 = Intermittent fall of snowflakes slight at time of observation
- 71 = Continuous fall of snowflakes slight at time of observation
- 72 = Intermittent fall of snowflakes moderate at time of observation
- 73 = Continuous fall of snowflakes moderate at time of observation
- 74 = Intermittent fall of snowflakes heavy at time of observation
- 75 = Continuous fall of snowflakes heavy at time of observation
- 76 = Diamond dust (with or without fog)
- 77 = Snow grains (with or without fog)
- 78 = Isolated star-like snow crystals (with or without fog)
- 79 = Ice pellets
- 80 = Rain shower(s), slight
- 81 = Rain shower(s), moderate or heavy
- 82 = Rain shower(s), violent
- 83 = Shower(s) of rain and snow mixed, slight
- 84 = Shower(s) of rain and snow mixed, moderate or heavy
- 85 = Snow shower(s), slight
- 86 = Snow shower(s), moderate or heavy
- 87 = Shower(s) of snow pellets or small hail, with or without rain or rain and snow mixed, slight
- 88 = Shower(s) of snow pellets or small hail, with or without rain or rain and snow mixed, moderate or heavy
- 89 = Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder, slight
- 90 = Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder, moderate or heavy
- 91 = Slight rain at time of observation, thunderstorm during the past hour but not at time of observation
- 92 = Moderate or heavy rain at time of observation, thunderstorm during the past hour but not at time of observation
- 93 = Slight snow, or rain and snow mixed, or hail at time of observation, thunderstorm during the past hour but not at time of observation
- 94 = Moderate or heavy snow, or rain and snow mixed, or hail at time of observation, thunderstorm during the past hour but not at time of observation
- 95 = Thunderstorm, slight or moderate, without hail but with rain and or snow at time of observation
- 96 = Thunderstorm, slight or moderate, with hail at time of observation
- 97 = Thunderstorm, heavy, without hail but with rain and or snow at time of observation
- 98 = Thunderstorm combined with duststorm or sandstorm at time of observation
- 99 = Thunderstorm, heavy, with hail at time of observation

Hail includes large hail, small hail and snow pellets.

W1, W2: Past weather (for 0900 and 1500 GMT observations, the period covered is 3 hours)

Code figures:

- 0 = Cloud covering half or less of the sky throughout the period
- 1 = Cloud covering more than half the sky during only part of the period
- 2 = Cloud covering more than half the sky throughout the period
- 3 = Sandstorm, duststorm or blowing snow
- 4 = Fog or ice fog or thick haze (visibility less than 1000 m)
- 5 = Drizzle
- 6 = Rain
- 7 = Snow or rain and snow mixed
- 8 = Shower(s)
- 9 = Thunderstorm(s) with or without precipitation

Nh: Amount of low cloud, or medium cloud if no low cloud present, okta

Cl: Type of low cloud

- 0 = No low cloud
- 1 = Cumulus with little vertical extent and seemingly flattened, or ragged Cumulus other than bad weather, or both
- 2 = Cumulus of moderate or strong vertical extent, either accompanied or not by other Cumulus or Stratocumulus all having their bases at the same level
- 3 = Cumulonimbus whose summits, at least partially, lack sharp outline, but are neither clearly fibrous (cirriform), nor in the form of an anvil; Cumulus, Stratocumulus or Stratus may also be present
- 4 = Stratocumulus formed by the spreading out of Cumulus; Cumulus may also be present
- 6 = Stratus in a more or less continuous sheet or layer, or ragged shreds, or both, but no Stratus fractus of bad weather
- 7 = Stratus fractus of bad weather or Cumulus fractus of bad weather or both (pannus), usually below Altostratus or Nimbostratus
- 8 = Cumulus and Stratocumulus other than that formed by the spreading out of Cumulus, the bases of the Cumulus and Stratocumulus are not at the same level.
- 9 = Cumulonimbus, the upper part of which is clearly fibrous (cirriform), often in the form of an anvil, either accompanied or not by any other type(s) of low cloud
- / = Types of low cloud invisible due to darkness, fog, blowing dust or sand or other similar phenomena.

'Bad weather' denotes the conditions which generally exist during precipitation and a short time before and after.

Cm: Type of medium cloud.

- 0 =No medium cloud.
- 1 =Altostratus, the greater part of which is semi-transparent; through this part the sun or moon may be weakly visible, as through ground glass
- 2 = Altostratus, the greater part of which is sufficiently dense to hide the sun or moon, or Nimbostratus
- 3 = Altocumulus, the greater part of which is semi-transparent; the various elements of the cloud change only slowly and are all at a single level
- 4 = Altocumulus in patches (often in the form of almonds or fishes), the greater part of which is semi-transparent; the clouds occur at one or more levels and the elements are continually changing in appearance
- 5 = Altocumulus in bands semi-transparent, of Altocumulus in one or more fairly continuous layers (semi-transparent or opaque), progressively invading the sky; these Altocumulus clouds generally thicken as a whole
- 6 = Altocumulus resulting from the spreading out of Cumulus (or Cumulonimbus)
- 7 = Altocumulus in two or more layers, usually opaque in places, and not progressively invading the sky; or opaque layer of Altocumulus not progressively invading the sky; or Altocumulus together with Altostratus or Nimbostratus 8 = Altocumulus with sproutings in the form of small towers or battlements, or Altocumulus having the appearance of cumuliform tufts
- 9 Altocumulus of a chaotic sky, generally at several levels
- / = Types of medium cloud invisible owing to darkness, fog, blowing dust of sand or other similar phenomena, or more often because of the presence of a continuous layer of lower clouds.

Ch: Type of high cloud

- 0 = No high cloud
- 1 = Cirrus in the form of filaments, strands or hooks, not progressively invading the sky.
- 2 = Dense cirrus, in patches or entangled sheaves, which usually do not increase and sometimes seem to be the remains of the upper part of a Cumulonimbus; or Cirrus with sproutings in the form of small turrets or battlements, or Cirrus having the appearance of cumuliform tufts
- 3 = Dense Cirrus, often in the form of an anvil, being the remains of the upper part of Cumulonimbus, or where the rest of the Cumulonimbus is below the horizon
- 4 = Cirrus in the form of hooks or filaments, or both, progressively invading the sky; they generally become denser as a whole
- 5 = Cirrus (often in bands converging towards one or two opposite points on the horizon) and Cirrostratus, or Cirrostratus alone; in either case they are progressively invading the sky, and generally growing denser as a whole, but the continuous veil does not reach 45 degrees above the horizon.
- 6 = Cirrus (often in bands converging towards one or two opposite points on the horizon) and Cirrostratus, or Cirrostratus alone; in either case they are progressively invading the sky, and generally growing denser as a whole; the continuous veil extends more than 45 degrees above the horizon, without the sky being totally covered
- 7 = Veil of Cirrostratus covering the celestial dome.
- 8 = Cirrostratus not progressively invading the sky and not completely covering the celestial dome
- 9 = Cirrocumulus alone, or accompanied by Cirrus or Cirrostratus, or both, but Cirrocumulus is predominant.
- / = Types of high cloud invisible owing to darkness, fog, blowing dust of sand or other similar phenomena, or more often because of the presence of a continuous layer of lower clouds.

8 Groups

N = Amount of cloud reported by C, okta.

C = Type of cloud

0 = Cirrus (Ci)

1 = Cirrocumulus (Cc)

2 = Cirrostratus (Cs)

3 = Altocumulus (Ac)

4 = Altostratus (As)

5 = Nimbostratus (Ns)

6 = Stratocumulus (Sc)

7 = Stratus(St)

8 = Cumulus (Cu)

9 = Cumulonimbus (Cb)

/ = Cloud type not visible owing to darkness, fog, duststorm, or other analogous phenomena.

hshs = Height of cloud above station level reported by type C

00 to 50 = Height in hundreds of feet

51 to 55 Not used

56 to 80 = Subtract 50 to obtain cloud height in thousands of feet

81 to 88 = Height of cloud between 35000 and 70000 ft in 5000 ft steps.