

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

AUGUST 2026

Temperature (°C)		Anomaly		Rank in the past 145 years	
Mean maximum	27.0	+4.2		* Highest *	
Mean minimum	13.7	+1.1		3rd highest	
Daily mean	20.4	+2.7		* Highest *	
Highest maximum	37.2		on 13th	Lowest maximum	21.1 on 21st
Highest minimum	18.3		on 5 & 18	Lowest minimum	7.8 on 7 & 23
Mean grass minimum	10.1	+0.5		Lowest grass minimum	3.2 on 7th
Mean earth @30 cm	22.0	+3.1		Earth @100 cm	20.5 +2.7
Frost duration (hrs)	0.0			Rain duration (hrs)	12.0
Rainfall total (mm)	19.9	37 %		12th lowest	
Highest daily fall	6.2		on 29th	Highest rate mm/hr	114 on 29th
Number of: Dry days (<0.2mm)	25	Wet days (>0.9mm)	6	days ≥5mm	2
Sunshine total (hrs) 290.1		Daily mean 9.36	161 %	Sunniest day	14.8 on 7th
N° days with: Air frost 0		Ground frost 0		Snow falling	0
Thunder 0		Hail ≥5mm 0		Snow lying	0
		Small hail/ice	0	Fog @09	0
				Nil sun	1
Pressure MSL : Mean @09 GMT, mbar	1015.6	-0.2	Highest	1026.4 on 23rd	Lowest 999.7 on 29th
Relative humidity : Mean (%)	59.2	Lowest	10 on 13th	Water vapour (g/kg), mean at 09 and 15 GMT	8.8, 7.5
Overall mean wind speed (mph)	6.3	Windiest day	10.6 on 5th	Max gust	35 on 5th
Wind direction (days)	N 4 NE 1 E 7 SE 1 S 2 SW 6 W 8 NW 2				
Least windy day (mph)	3.1 on 7th	Calm; less than 0.5 mph (minutes)		n/a	

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

Notes:

Very Dry, Very Sunny, Very Hot at Times

Temperature: This is the fourth consecutive month to have a new record high mean temperature. The mean maximum is a new record since before 1882, 5.6° above the long-term median and 0.1° above the previous highest in 2022. The mean minimum is 2.0° above the median, but is 1.3° below the record set in 1997. The resulting daily mean temperature is 3.8° above the median and 0.1° above the previous highest in 2022. A 3 day heatwave from the 12th saw anomalies for daily maximum temperature over +10°, with an extreme value of +14.2° on the hottest day, the 13th, when the temperature reached 37.2°, a new record for August. On only 2 days was the anomaly for daily max negative, the 6th and 21st, with an extreme value of -1.4° on the 21st. Anomalies for daily min were more variable, over +6° on the 18th, 27th and 29th, and exceeding -4° on the 7th and 23rd, with extreme values of +6.9° on 27th and -5.1° on the 7th. The highest max is 9.2° above the median and a new record, 0.3° above the previous highest in 2003. The lowest max is 4.1° above the median and a new record, 0.8° above the previous highest in 1933. The highest min is 1.9° above the median and the lowest min is 1.4° above its median. The lowest grass min is 0.5° above average. Earth temperature at both 30cm and 1m depth a new record highs, at 30cm 1.5° above the previous highest in the past 47 years, recorded in 1995, at 1 m depth 1.3° above the previous highest in 38 years, recorded in 2018. The highest and lowest daily values at both depths a new record highs. **Rainfall:** A very dry month overall, though with some much needed rainfall after mid-month. The drought which began on the 23rd June ended on the 18th August. In that 56 day period only 0.2 mm of rain fell. Actually, in the 67 days after the 12th June there was only 2.0 mm of rain. This August only a trace of rain was recorded until the 18th, but it was the 26th before there was a day having at least 5 mm, followed 3 days later by another one. A dry spell of 49 days ended on the 17th, the longest one since before 1976. A short 5 day dry spell ended on the 25th. The total rainfall this August is lowest since 2003, and the fall of 6.2 mm on the month's wettest day is lowest since 2012. The number of dry days is 6 above average, equal highest with 2022 since 2003. Rainfall rate was in the violent category on the 27th and 29th, and the rate of 114 mm/hr on the 29th is the highest daily value since 1st September 2025. **Sunshine:** This August is the sunniest, certainly since 1995 and possibly since before 1908. The doubt is due to a change in method of recording sunshine here in 1998, the current method tends to record more sunshine than previous to the change. The first half of this August was exceptionally sunny, with an average daily sunshine of 12.3 hours from the 1st to the 15th, over twice the normal amount. The 18th was the first sunless day since the 1st April. Overall there were 4 days with <3 hours, 25 with =>6 hours and 11 with =>12 hours. **Wind:** The mean speed of 6.3 mph is 0.3 mph above average, but the speed on the month's windiest day and the highest gust are both close to average. **Humidity:** Both the mean and lowest value of relative humidity are lowest for August in the past 29 years, 15 % and 18 % below average respectively.

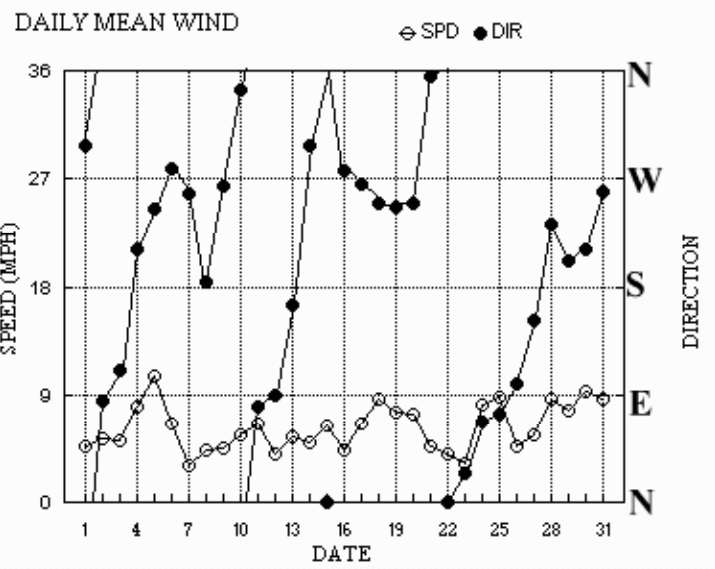
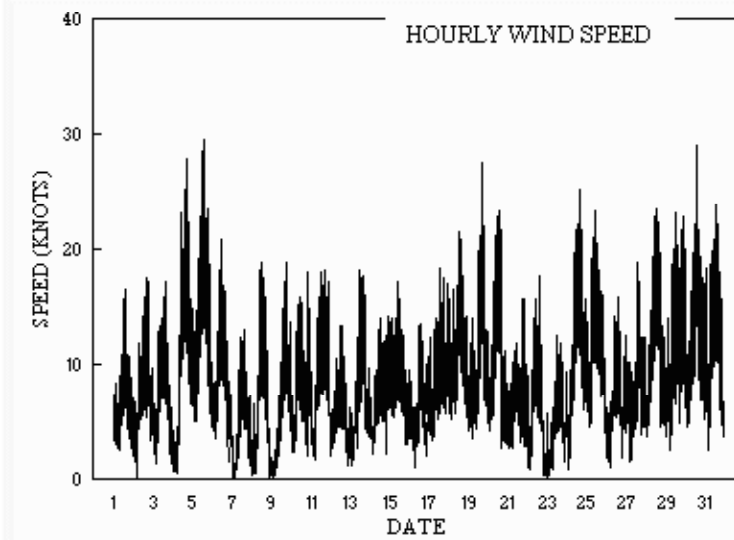
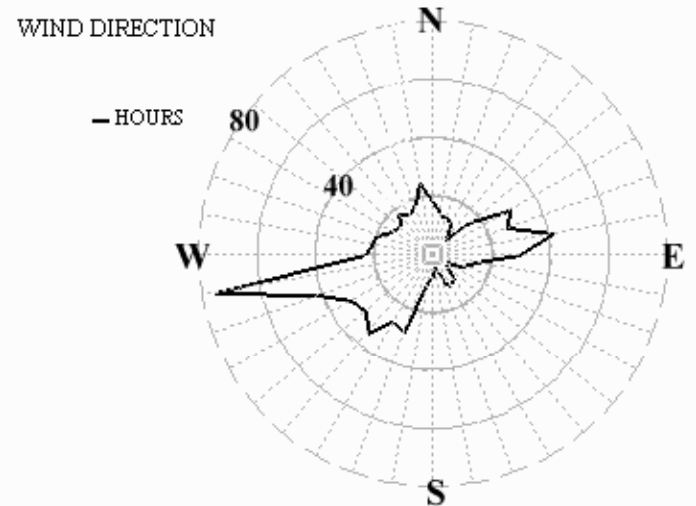
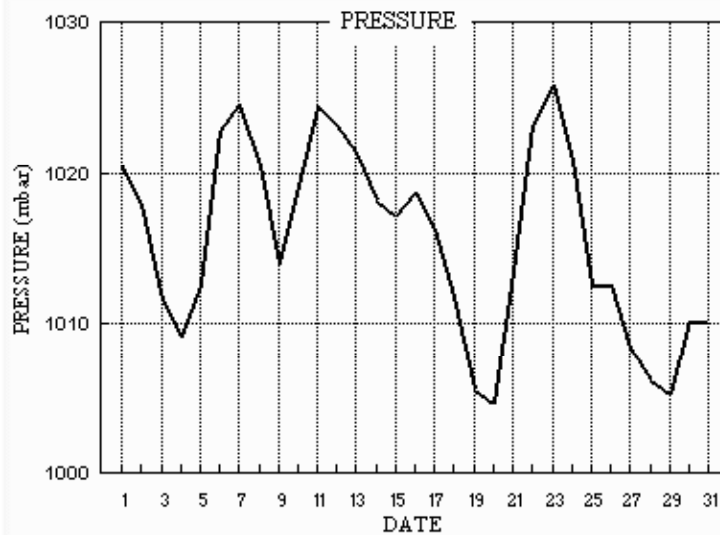
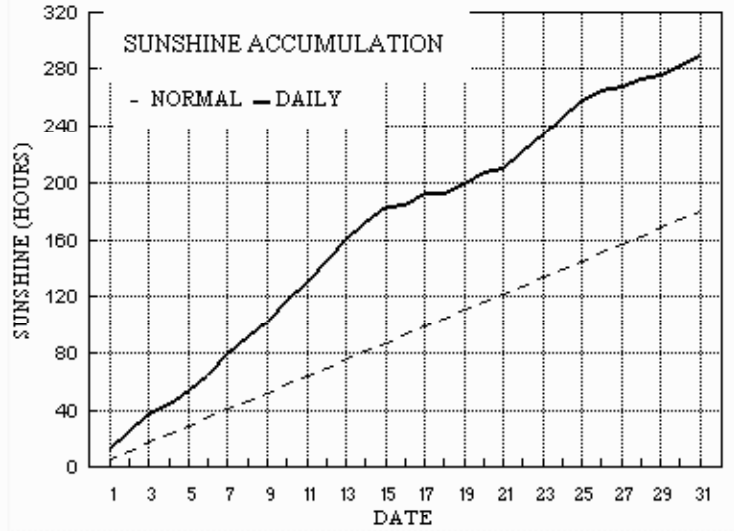
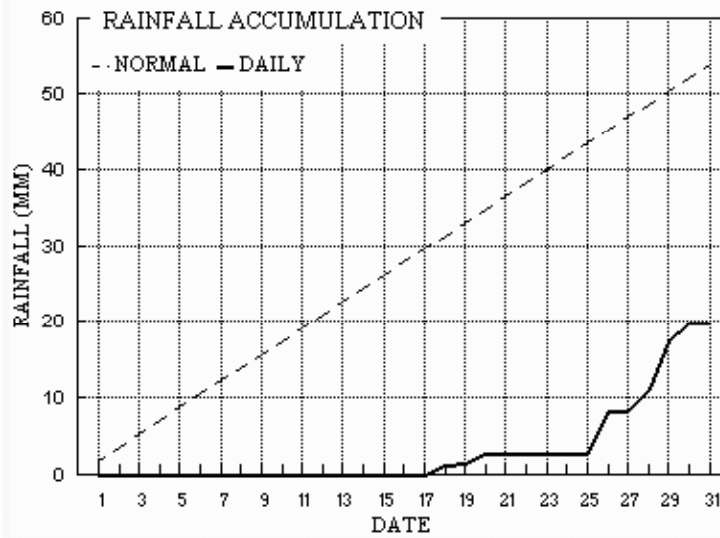
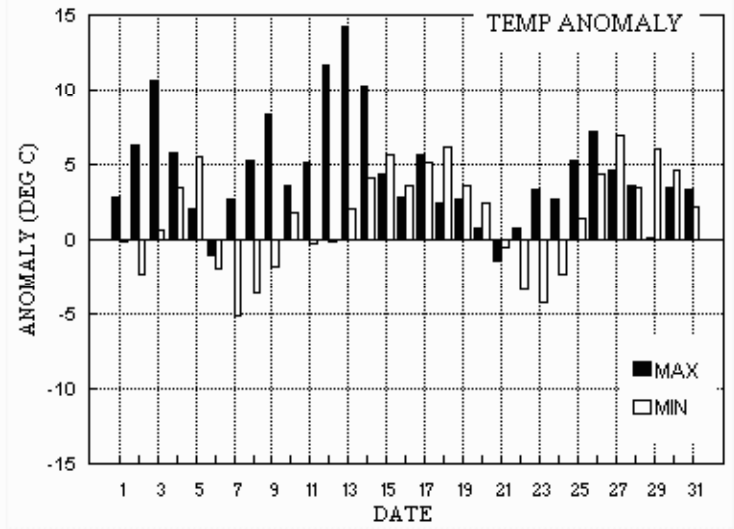
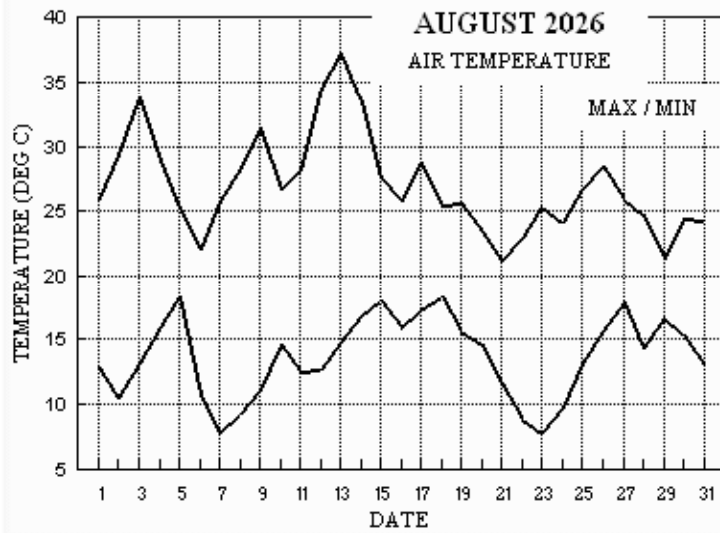
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

From the 1 st to the 10 th				From the 11 th to the 20 th				From the 21 st to the 31 st			
+4.7°	-0.3°	0 %	202 %	+6.0°	+3.2°	16 %	155 %	+3.0°	+1.7°	89 %	130 %

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham climatological graphs for August 2026



Month: AUGUST 2026

Date	Max C	Min C	Rain mm	Grass Min	30cm C	100cm C	Sun hrs	Frost hrs	pp09 mbar	Af Gf	Sf Sl	Th Ha	Ic Fg	Vec ddd	mean ff	sp	Max gust ddd	gg	HHhh	High hr ddd	ff	HH	Rain hrs
1	26.0	12.8	0.0	6.7	23.0	20.7	13.5	0.0	1020.5	0	0	0	0	297	3.8	4.1	309	17	1305	268	7	13	0.0
2	29.4	10.4	0.0	5.2	22.6	20.7	12.2	0.0	1017.9	0	0	0	0	86	3.9	4.6	81	18	1645	79	9	17	0.0
3	33.8	13.2	0.0	8.4	22.7	20.7	11.9	0.0	1011.5	0	0	0	0	111	2.3	4.5	156	17	1450	76	7	10	0.0
4	28.9	16.0	tr	11.7	22.9	20.7	7.8	0.0	1009.1	0	0	0	0	211	6.7	7.0	207	28	1750	208	13	17	0.0
5	25.2	18.3	tr	15.6	22.9	20.7	9.2	0.0	1012.5	0	0	0	0	245	8.8	9.2	261	30	1500	260	14	14	0.0
6	22.1	10.8	0.0	5.2	22.6	20.7	10.2	0.0	1022.8	0	0	0	0	278	5.4	5.7	293	21	1020	293	10	11	0.0
7	25.8	7.8	0.0	3.2	21.7	20.6	14.8	0.0	1024.6	0	0	0	0	257	1.5	2.7	234	13	1405	216	5	14	0.0
8	28.3	9.3	tr	4.5	21.8	20.5	12.4	0.0	1020.4	0	0	0	0	184	3.5	3.8	164	19	1200	209	9	14	0.0
9	31.4	11.1	0.0	6.9	21.8	20.4	11.0	0.0	1014.0	0	0	0	0	264	3.0	3.9	281	19	1810	283	9	18	0.0
10	26.7	14.6	0.0	10.0	22.4	20.4	14.2	0.0	1019.1	0	0	0	0	343	3.0	4.9	67	18	2105	306	7	10	0.0
11	28.1	12.5	0.0	8.4	22.4	20.4	14.3	0.0	1024.4	0	0	0	0	80	5.6	5.8	74	18	1735	75	9	17	0.0
12	34.6	12.7	0.0	8.3	22.5	20.4	14.3	0.0	1023.2	0	0	0	0	90	3.0	3.5	147	13	1245	67	5	08	0.0
13	37.2	14.8	0.0	10.5	22.8	20.5	14.4	0.0	1021.3	0	0	0	0	165	3.1	4.8	160	18	1220	199	9	17	0.0
14	33.3	16.8	0.0	12.0	23.2	20.5	13.3	0.0	1018.1	0	0	0	0	298	3.8	4.3	346	14	2240	285	6	13	0.0
15	27.5	18.1	0.0	16.7	23.6	20.6	10.5	0.0	1017.2	0	0	0	0	1	5.5	5.6	1	17	1200	17	8	10	0.0
16	25.8	16.0	0.0	14.1	23.5	20.7	1.3	0.0	1018.7	0	0	0	0	277	2.7	3.8	255	14	1525	258	7	16	0.0
17	28.7	17.3	tr	13.8	23.2	20.8	8.2	0.0	1016.3	0	0	0	0	265	5.5	5.8	262	19	1400	257	9	17	0.0
18	25.4	18.3	1.3	15.9	23.1	20.8	0.0	0.0	1011.8	0	0	0	0	249	7.5	7.6	247	22	1240	251	11	12	1.7
19	25.6	15.7	0.1	15.2	22.7	20.9	6.3	0.0	1005.5	0	0	0	0	246	6.5	6.6	240	28	1755	252	13	17	0.1
20	23.4	14.7	1.4	11.4	22.1	20.8	7.4	0.0	1004.7	0	0	0	0	250	5.4	6.5	247	24	1350	251	11	11	1.2
21	21.1	11.7	0.0	9.8	21.6	20.7	3.5	0.0	1013.4	0	0	0	0	355	3.9	4.2	30	16	1930	29	7	19	0.0
22	23.0	8.8	0.0	4.3	20.8	20.6	12.4	0.0	1023.2	0	0	0	0	1	3.1	3.6	23	18	1430	29	7	11	0.0
23	25.3	7.8	0.0	4.1	20.5	20.4	11.9	0.0	1025.8	0	0	0	0	24	0.5	2.8	8	13	1225	34	6	16	0.0
24	24.2	9.7	tr	5.0	20.4	20.2	11.6	0.0	1020.9	0	0	0	0	68	7.0	7.2	81	25	1610	78	12	16	0.1
25	26.7	13.1	0.0	8.5	20.6	20.0	12.6	0.0	1012.6	0	0	0	0	74	7.4	7.7	70	24	1135	80	11	10	0.0
26	28.5	15.7	5.5	12.9	21.1	19.9	6.7	0.0	1012.6	0	0	0	0	100	3.4	4.1	155	16	1425	93	7	15	2.3
27	25.9	17.9	0.0	14.9	21.4	20.0	2.3	0.0	1008.3	0	0	0	0	152	2.1	4.9	204	19	1550	200	9	16	0.0
28	24.8	14.4	2.8	11.8	20.9	20.0	5.8	0.0	1006.2	0	0	0	0	231	7.3	7.5	249	24	1315	242	12	13	3.0
29	21.3	16.7	6.2	14.5	20.7	20.0	2.3	0.0	1005.3	0	0	0	0	202	5.5	6.7	191	23	1320	241	11	22	2.8
30	24.5	15.3	2.6	13.2	20.2	19.9	6.5	0.0	1010.1	0	0	0	0	211	7.7	8.0	212	29	1525	203	13	14	0.7
31	24.3	13.0	tr	10.8	19.9	19.8	7.3	0.0	1010.1	0	0	0	0	260	7.0	7.5	261	24	1445	259	12	14	0.1
Total			19.9				290.1	0.0															12.0
Mean	27.0	13.7		10.1	22.0	20.5	9.36	0.0	1015.6					245	1.5	5.5							
Anom	+4.2	+1.1	37%	+0.5	+3.1	+2.7	161%			-0.2													
Daily mean		20.4																					
Anom		+2.7																					
Number of days with:																							
Air frost = 0				Ground frost = 0			Nil sun = 1																
Snow falling = 0				Snow lying = 0			Thunder = 0																
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, <.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 =>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.

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.

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 AUGUST 2026

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cf	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	86	1	36	03	08	20.2	7.2	43	6.3	1020.5	0 000	02	0	0	0	0	9	0	1	81075								1	El haz lyr E
2	83	7	07	05	09	22.0	9.5	45	7.3	1017.9	7 008	02	2	2	0	0	9	0	1	87078								2	COTRA
3	80	6	08	06	09	24.9	14.4	52	10.2	1011.5	7 009	02	1	1	1	0	9	4	1	81365	86078						3	COTRA	
4	82	6	22	07	11	26.6	11.5	39	8.4	1009.1	0 000	03	1	1	5	0	9	7	9	82370	83173						4	2Ci75	
5	80	6	25	10	17	21.9	13.8	60	9.8	1012.5	1 009	15	2	2	6	8	5	0	0	84825	83656						5	Cu med jp S.	
6	86	2	29	07	14	18.4	6.9	47	6.1	1022.8	1 008	03	0	0	2	8	6	0	0	82838							6	1Sc56 Cu med	
7	86	1	04	02	05	19.2	7.0	45	6.1	1024.6	7 002	03	0	0	1	1	6	0	1	81840							7	1Ci75 Cu hum	
8	88	6	15	04	08	21.3	9.2	46	7.2	1020.4	7 009	02	2	2	0	0	9	0	1	81172	86080						8	COTRA	
9	84	5	35	02	04	21.8	7.6	40	6.5	1014.0	8 007	01	8	2	5	0	9	8	1	81358	85359						9	1Ci75 Ac cas	
10	86	5	32	07	12	20.8	12.0	57	8.6	1019.1	2 017	03	1	1	1	8	6	0	1	81835	85080						10	1Sc50 COTRA Cu hum	
11	81	1	11	07	13	21.9	13.5	59	9.5	1024.4	8 003	02	0	0	1	1	5	0	1	81828							11	1Ci80 COTRA Cu hum El hz lyr	
12	81	1	07	05	09	24.4	11.7	45	8.4	1023.2	8 003	02	0	0	0	0	9	0	2	81075							12	1Ci81 COTRA	
13	81	1	13	04	07	28.3	10.5	33	7.8	1021.3	7 007	02	0	0	1	0	9	3	0	81360							13		
14	83	6	29	04	08	25.4	15.4	54	10.8	1018.1	7 003	02	1	1	1	0	9	8	1	81365	86080						14	COTRA Ac cas	
15	82	2	01	07	13	22.7	13.2	55	9.4	1017.2	8 001	01	1	1	1	5	7	3	1	81656							15	1Ac59 2Ci75 El hz lyr	
16	81	8	31	02	05	19.6	11.4	59	8.3	1018.7	0 001	03	2	2	6	5	4	7	/	83613	85635	88365				16			
17	88	2	27	07	11	22.2	13.8	59	9.7	1016.3	0 000	03	1	1	2	8	5	0	9	81825							17	2Sc56 1Cc72 1Ci81 COTRA Cu hum	
18	83	8	23	05	10	20.7	17.3	81	12.3	1011.8	8 001	20	5	2	8	5	3	/	/	82708	87710	88620				18			
19	82	7	25	05	10	17.9	14.8	82	10.5	1005.5	6 010	01	6	2	7	8	3	/	/	86809	85625	87645				19	Cu fra/hum		
20	86	5	25	09	18	19.6	11.9	61	8.7	1004.7	1 004	03	8	1	5	8	5	4	0	82828	83656					20	1Ac58 Cu med Cu con N		
21	84	6	01	04	10	16.8	10.2	65	7.7	1013.4	2 014	03	2	2	2	1	4	3	0	82818	85358					21	Cu hum		
22	86	1	03	06	11	16.5	7.4	55	6.3	1023.2	1 012	03	0	0	1	1	6	0	0	81830							22	Cu hum	
23	81	1	26	04	06	18.3	10.4	60	7.7	1025.8	8 004	02	0	0	0	0	9	0	1	81080							23	COTRA Dist line Cu top SSW	
24	80	6	08	06	13	18.4	10.5	60	7.8	1020.9	7 013	03	1	1	3	8	5	0	1	81825	83627	85081				24	COTRA Cu hum		
25	80	2	07	09	17	20.9	12.6	59	9.0	1012.6	8 003	03	0	0	1	1	5	8	1	81825							25	1Ac62 2Ci81 COTRA Cu hum Ac cas dist SW	
26	65	4	09	05	07	22.7	15.0	62	10.6	1012.6	0 000	03	1	1	3	5	7	3	1	83650							26	1Ac60 1Ci80 Sc cas	
27	65	7	11	05	08	18.3	18.0	98	12.8	1008.3	3 001	60	6	2	1	5	6	7	/	81648	83358	85360				27	7As65 Sc cas Cld edge S		
28	84	1	23	08	14	19.9	12.4	62	9.0	1006.2	7 006	02	1	1	1	1	5	0	8	81823							28	1Cs73 1Ci78 Cu hum Cs edge NW	
29	56	8	14	06	13	17.0	15.9	93	11.2	1005.3	8 014	63	6	2	2	5	3	2	/	81708	88550					29	2Sc40		
30	82	5	22	08	15	19.2	13.8	71	9.8	1010.1	0 007	03	1	1	2	8	4	0	1	81818	83080					30	2Sc56 COTRA Cu med		
31	86	5	28	09	17	17.8	13.1	74	9.4	1010.1	2 025	03	1	1	5	8	4	0	0	85818							31	1Sc45 Cu med	

Mean vis = 43.1 km

Mean cloud = 4.3 53%

Mean wind speed = 5.7 kn

Mean gust = 11 kn

Mean TT = 20.8 °C

Mean TdTd = 12.0 °C

Mean RH = 58.7 %

Mean r = 8.8 g/kg

Mean PPP = 1015.6 mbar

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

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 AUGUST 2026

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cf	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	84	5	30	05	12	24.8	3.5	25	4.8	1018.9	6	005	03	1	1	1	1	8	0	1	81857	85078					1	Cu hum Halo 22° part+U/a cont
2	82	7	14	05	14	28.7	6.2	24	5.8	1014.1	7	020	03	2	2	1	4	8	0	6	81857	83275	87078				2	1Sc57 COTRA Cu hum
3	82	6	18	06	15	32.4	8.6	23	7.0	1008.8	8	014	03	1	1	1	1	8	8	1	81857	85358					3	2Ci75 Cu hum Ac len Ac cas El hz lyr
4	84	7	21	11	22	26.5	16.4	54	11.6	1009.4	3	005	25	8	2	5	2	6	7	/	85833	83361	85070				4	Cu med Absent vv&cld est
5	84	2	27	14	25	23.5	5.2	30	5.5	1015.1	1	011	01	0	0	2	4	7	0	0	81856						5	2Sc56 Cu hum
6	89	5	31	07	14	20.9	3.6	32	4.8	1023.8	2	004	02	1	1	5	4	7	0	1	81850	85650					6	2Ci75 Cu hum
7	84	2	22	05	12	24.8	4.0	26	5.0	1021.6	7	013	02	0	0	0	0	9	0	1	82080						7	COTRA
8	84	7	21	08	15	27.0	4.7	24	5.3	1017.2	7	013	03	2	2	3	0	9	8	6	82365	84272	85077				8	2Ac68 COTRA Ac cas vir U/a cont
9	86	2	25	06	11	30.7	4.4	19	5.2	1011.7	7	012	02	0	0	1	1	9	0	1	81858						9	2Ci78 El hz lyr W
10	88	6	03	06	10	26.0	3.3	23	4.8	1019.5	4	000	02	2	2	0	0	9	0	1	81173	86076					10	COTRA Cc cas U/a cont
11	83	1	08	08	15	27.4	10.6	35	7.8	1022.3	7	013	02	0	0	0	0	9	0	1	81080						11	COTRA
12	82	1	16	03	12	33.4	7.4	20	6.3	1021.3	7	011	02	0	0	0	0	9	0	1	81078						12	Wind dir var
13	83	1	16	08	16	36.7	5.9	15	5.7	1018.6	7	012	02	0	0	1	1	9	4	0	81859						13	1Ac60 Cu hum
14	84	5	26	06	11	32.8	10.4	27	8.3	1015.1	7	013	03	2	2	1	1	9	8	1	81858	85078					14	1Ac65 COTRA Cu hum Ac cas to NW
15	84	7	03	06	11	26.2	13.3	45	9.5	1016.6	8	007	03	1	1	7	8	6	/	/	83847	87650					15	Cu hum
16	84	7	26	05	11	25.5	14.3	50	10.1	1016.7	6	013	03	2	2	4	4	6	0	6	84835	87273					16	1Sc50 Cu med. Halo 22° part
17	86	7	24	07	12	27.7	13.6	42	9.7	1014.9	7	013	02	2	2	3	4	6	3	/	82843	87362					17	2Sc56 Cu med
18	82	8	26	09	18	24.5	13.7	51	9.7	1009.8	7	011	02	2	2	1	1	6	7	/	81840	86365	88468				18	Cu hum
19	86	2	27	10	16	24.4	10.3	41	7.8	1002.8	6	011	01	1	1	2	2	7	0	0	82850						19	Cu med El hz lyr
20	65	6	25	10	19	22.8	9.2	42	7.3	1005.1	5	001	15	1	1	5	9	6	6	3	81935	83843					20	2Sc56 2Ac58 1Ac65 1Ci70 Cu con Cb cap jpN&W vv70k e
21	82	7	35	04	09	20.3	4.8	36	5.3	1014.0	2	003	15	2	2	4	4	7	6	/	82850	83657	85360				21	Cu med jpSW
22	86	3	36	04	16	22.7	2.2	26	4.4	1022.9	5	001	02	0	0	3	4	7	0	0	81856	83656					22	Cu hum
23	86	4	05	05	10	24.5	4.3	27	5.1	1023.5	8	014	02	0	0	4	4	7	0	0	84656						23	
24	84	6	08	12	20	22.9	7.1	36	6.2	1016.2	8	023	02	1	1	1	4	7	4	1	81650	85080					24	1Ac65 COTRA
25	84	1	09	09	17	26.0	8.0	32	6.7	1011.0	7	005	02	0	0	1	1	7	4	1	81850						25	1Ac62 1Ci81 COTRA Cu hum Ac len
26	75	7	14	05	14	27.1	15.5	49	10.9	1010.5	7	010	15	2	2	3	2	6	6	1	83848	84357					26	/Ac65 /Ci80 Cu con jpN
27	80	5	19	08	13	25.0	15.9	57	11.3	1006.9	7	007	15	2	2	4	9	5	6	1	81920	83830	83075				27	1Ac60 Cb cap N Cu con jpN
28	80	6	25	12	21	23.4	13.0	52	9.3	1006.3	1	006	15	8	2	3	9	5	6	3	81925	83835	83072				28	1Ac57 1Ac60 1Ac65 Cb cap Cu med/con jpSE&W vv70k e
29	50	8	21	07	18	19.3	18.1	93	13.1	1000.1	6	020	59	6	2	7	7	3	2	/	85706	87709	88520				29	
30	86	6	21	14	26	21.0	13.2	61	9.4	1008.1	5	004	02	8	2	6	8	6	/	/	82835	83650	85656				30	Cu med
31	80	5	27	12	21	23.7	11.1	45	8.2	1013.8	2	016	15	2	2	5	8	6	6	4	82843						31	2Sc56 2Ac58 2Ci75 Cu med jpNE vv70k ex p

Mean vis = 46.1 km

Mean cloud = 4.9 61%

Mean wind speed = 7.6 kn

Mean gust = 15 kn

Mean TT = 25.9 °C

Mean TdTd = 9.1 °C

Mean RH = 37.5 %

Mean r = 7.5 g/kg

Mean PPP = 1014.1 mbar

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

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

Wokingham	Hour	01-Aug	02-Aug	03-Aug	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug	09-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
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
2026	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
	4	0.34	0.30	0.29	0.26	0.00	0.28	0.28	0.28	0.02	0.16	0.03	0.06	0.15	0.12	0.00	0.00
	5	1.00	1.00	1.00	0.64	0.52	1.00	1.00	1.00	0.34	1.00	1.00	0.99	1.00	1.00	0.18	0.00
	6	1.00	1.00	1.00	0.95	0.04	1.00	1.00	1.00	0.06	1.00	1.00	1.00	1.00	1.00	0.82	0.01
	7	1.00	1.00	1.00	0.87	0.04	1.00	1.00	1.00	0.09	1.00	1.00	1.00	1.00	1.00	1.00	0.00
	8	1.00	1.00	1.00	0.85	0.32	0.87	1.00	1.00	0.72	1.00	1.00	1.00	1.00	1.00	1.00	0.00
	9	1.00	1.00	1.00	0.17	0.46	0.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
	10	1.00	1.00	1.00	0.68	0.33	0.43	1.00	1.00	0.94	1.00	1.00	1.00	1.00	1.00	1.00	0.00
	11	1.00	1.00	1.00	0.09	0.44	0.33	1.00	1.00	0.56	1.00	1.00	1.00	1.00	1.00	1.00	0.15
	12	1.00	0.95	0.54	0.05	0.87	0.12	1.00	1.00	0.77	1.00	1.00	1.00	1.00	1.00	1.00	0.67
	13	1.00	0.74	0.86	0.00	0.66	0.27	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	0.42
	14	1.00	0.99	0.62	0.19	0.98	0.15	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.46	0.01
	15	0.48	0.73	0.47	0.76	0.99	1.00	1.00	0.79	1.00	1.00	1.00	1.00	1.00	1.00	0.49	0.00
	16	0.49	0.44	0.50	0.35	1.00	1.00	1.00	0.60	1.00	1.00	1.00	1.00	1.00	1.00	0.68	0.00
	17	0.63	0.68	0.57	0.59	1.00	1.00	1.00	0.74	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00
	18	1.00	0.28	0.78	0.78	1.00	1.00	1.00	0.00	1.00	0.97	1.00	1.00	1.00	0.18	0.73	0.00
	19	0.52	0.10	0.32	0.53	0.51	0.48	0.55	0.00	0.52	0.07	0.22	0.25	0.20	0.00	0.18	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	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
	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		13.47	12.20	11.94	7.75	9.15	10.24	14.82	12.41	11.02	14.20	14.25	14.31	14.35	13.30	10.52	1.26
	Hour	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	Mean
	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
	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
	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
	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	0.08
	5	0.32	0.00	0.00	0.36	0.00	0.90	0.75	0.78	0.65	0.00	0.00	0.00	0.03	0.20	0.48	0.55
	6	1.00	0.00	0.00	0.55	0.40	1.00	1.00	0.99	1.00	0.15	0.00	0.15	0.00	0.68	1.00	0.67
	7	1.00	0.00	0.00	0.84	0.81	1.00	1.00	1.00	1.00	0.90	0.00	0.92	0.00	1.00	0.55	0.74
	8	1.00	0.00	0.00	0.84	0.29	1.00	1.00	0.83	1.00	1.00	0.00	1.00	0.00	1.00	0.42	0.75
	9	0.95	0.01	0.26	0.85	0.28	1.00	1.00	0.44	1.00	0.98	0.00	1.00	0.00	0.55	0.24	0.69
	10	0.71	0.00	0.04	0.52	0.89	1.00	1.00	0.40	1.00	0.63	0.00	0.76	0.06	0.61	0.23	0.68
	11	0.04	0.00	0.33	0.32	0.63	0.91	0.75	0.62	1.00	0.64	0.15	0.28	0.08	0.45	0.56	0.62
	12	0.19	0.00	0.90	0.74	0.11	0.77	0.34	0.78	1.00	0.16	0.01	0.33	0.16	0.44	0.66	0.63
	13	0.24	0.00	0.61	0.99	0.04	0.57	0.87	1.00	1.00	0.36	0.46	0.03	0.00	0.88	0.66	0.67
	14	0.32	0.00	0.36	0.53	0.00	0.79	0.50	1.00	1.00	0.25	0.74	0.78	0.00	0.16	0.67	0.63
	15	0.53	0.00	0.93	0.18	0.02	1.00	0.81	1.00	1.00	0.38	0.33	0.30	0.00	0.41	0.52	0.65
	16	0.52	0.00	1.00	0.14	0.00	0.69	1.00	1.00	1.00	0.51	0.29	0.18	0.39	0.07	0.46	0.62
	17	0.80	0.00	1.00	0.52	0.01	0.93	1.00	0.94	0.69	0.72	0.00	0.02	1.00	0.00	0.52	0.66
	18	0.53	0.00	0.87	0.47	0.00	0.84	0.89	0.78	0.26	0.00	0.34	0.00	0.59	0.03	0.34	0.57
	19	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	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
	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		8.19	0.01	6.33	7.86	3.49	12.40	11.89	11.56	12.60	6.66	2.31	5.76	2.31	6.45	7.31	290.37

AUGUST 2026	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	19.42	26.7	1406	12.8	422	43.2	67.6	514	20.3	1408	5.5	5.6	6.5	735	4.2	1415	1019.16	1021.1	718	1018.2	1831	0
2	20.74	29.4	1405	10.4	434	46.3	78.2	443	19.4	1406	7.4	6.3	7.4	2359	5.0	1446	1014.63	1019.9	52	1013.1	1752	0
3	23.76	33.8	1407	13.2	441	49.5	82.0	443	17.3	1526	10.9	8.1	10.5	915	5.5	1526	1009.30	1013.6	0	1007.7	1757	0
4	22.64	28.9	1029	16.0	317	59.7	78.8	2357	34.7	850	14.0	10.0	12.2	1458	7.3	758	1009.66	1011.8	2356	1008.7	1144	0
5	20.46	25.2	1303	14.4	2359	55.2	81.9	450	24.1	1628	10.1	7.9	10.8	550	4.4	1628	1016.03	1019.7	2359	1010.9	328	0
6	17.09	22.1	1615	10.8	500	52.0	85.5	510	28.0	1617	6.1	5.8	7.1	613	4.5	1056	1022.86	1025.2	2253	1019.6	4	0
7	17.97	25.8	1510	7.8	450	52.2	90.3	530	21.7	1342	6.2	5.8	7.5	2310	4.4	1349	1023.07	1025.2	146	1020.6	1736	0
8	19.48	28.3	1306	9.3	528	52.7	95.1	519	21.3	1438	7.4	6.4	8.4	725	4.9	1525	1017.39	1021.9	41	1015.9	2353	0
9	22.34	31.4	1437	11.1	414	43.2	80.9	429	14.3	1414	6.6	6.1	8.1	2358	4.1	1047	1012.57	1016.1	2	1010.8	1705	0
10	20.90	26.7	1626	14.6	508	55.3	91.4	517	21.3	1626	10.0	7.7	10.1	2127	4.6	1354	1020.37	1023.5	2359	1014.3	0	0
11	20.85	28.1	1450	12.5	449	61.0	95.9	517	27.6	1453	11.8	8.5	9.7	732	6.9	1415	1023.42	1024.9	654	1021.4	1633	0
12	23.80	34.6	1451	12.7	422	53.2	98.0	555	17.2	1522	10.7	8.0	10.2	640	5.9	1318	1022.41	1024.3	9	1020.2	1651	0
13	26.78	37.2	1330	14.8	434	40.3	81.0	435	10.1	1218	8.1	6.9	10.2	800	3.7	1144	1018.76	1022.6	4	1017.4	1649	0
14	25.73	33.3	1530	16.8	517	50.4	82.3	542	23.8	1652	13.6	9.6	11.1	2328	7.4	1654	1015.49	1018.7	5	1013.9	1659	0
15	22.67	27.5	1415	18.1	531	55.2	68.0	117	38.7	1255	13.0	9.2	11.0	50	8.1	455	1017.22	1018.9	2352	1016.1	2	0
16	21.28	25.8	1349	16.0	547	57.1	69.5	2151	46.3	1234	12.3	8.9	11.1	2152	7.1	258	1016.76	1019.0	701	1015.5	1849	0
17	22.65	28.7	1516	17.3	425	52.1	68.2	2327	35.9	1514	12.1	8.7	10.4	1409	6.3	217	1015.29	1016.6	918	1013.3	2339	0
18	21.13	25.4	1319	17.7	2358	65.5	86.1	734	46.3	1354	14.1	10.0	12.7	928	8.5	40	1010.23	1013.7	0	1008.9	2356	0.1
19	19.14	25.6	1553	15.7	516	66.0	94.7	409	30.5	1615	11.8	8.7	10.9	921	5.6	1836	1005.17	1009.3	3	1002.3	1547	1.2
20	17.62	23.4	1348	13.5	2353	69.9	93.4	2355	34.1	1345	11.6	8.5	11.0	1724	6.3	1347	1005.94	1010.5	2358	1003.8	434	1.5
21	16.28	21.1	1154	11.7	506	64.2	94.9	534	34.6	1714	8.7	7.0	9.1	18	5.0	1714	1014.07	1019.6	2359	1010.4	2	0
22	15.90	23.0	1453	8.8	504	55.9	93.2	515	24.9	1607	5.8	5.7	6.9	750	4.3	1524	1022.70	1025.1	2359	1019.5	3	0
23	16.70	25.3	1500	7.8	445	56.6	90.1	544	23.8	1515	6.5	6.0	7.8	925	4.6	1740	1024.54	1026.4	723	1022.3	1741	0
24	17.36	24.2	1310	9.7	506	62.1	95.0	557	31.5	1430	9.1	7.1	8.2	1001	6.0	1430	1018.80	1023.5	0	1014.2	2352	0
25	20.72	26.7	1409	13.1	459	57.0	91.8	525	24.7	1317	10.5	7.9	10.0	2359	5.9	1322	1012.26	1014.5	6	1010.5	1651	0
26	21.82	28.5	1404	15.7	427	66.6	91.3	458	39.0	1404	14.7	10.3	11.8	2316	9.4	1837	1011.00	1012.9	906	1009.8	1608	0
27	20.01	25.9	1504	16.7	2359	80.3	98.2	830	48.0	1643	16.2	11.5	14.3	1149	8.5	1646	1007.90	1010.2	6	1006.4	1621	5.5
28	18.63	24.8	1245	14.4	502	77.1	97.5	521	40.4	1216	14.0	10.0	11.9	1802	8.0	1220	1006.89	1008.6	2351	1005.2	1214	1.3
29	18.13	21.3	1230	16.7	922	88.4	96.9	1616	73.6	1300	16.2	11.5	13.6	1223	9.9	2359	1004.33	1008.5	3	999.7	1529	7.7
30	18.38	24.5	1353	15.3	420	76.0	94.8	2208	46.0	1346	13.7	9.7	10.5	1040	8.5	1346	1007.89	1010.3	832	1004.9	2359	2.4
31	17.95	24.3	1350	13.0	528	70.3	94.5	543	42.9	1501	12.0	8.7	10.4	36	7.2	2239	1012.05	1019.7	2357	1004.5	23	0.2
Total																						19.9
Mean	20.27	27.02		13.49		59.2	87.32		31.04		10.67	8.13	10.05		6.20		1014.78	1017.93		1012.26		
Max	26.78	37.20		18.11		88.4	98.20		73.61		16.22	11.51	14.33		9.92		1024.54	1026.44		1022.25		
Min	15.90	21.10		7.77		40.3	67.61		10.12		5.46	5.56	6.51		3.67		1004.33	1008.54		999.72		

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
Time = hours and minutes in GMT of extreme values

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

WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

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

Seasonal Means and Totals

SUMMER 2026

Temperature (°C)

Rank in the past **145** years

Mean maximum	26.7	(+4.4)	* Highest *			
Mean minimum	14.0	(+2.0)	* Highest *			
Daily mean	20.3	(+3.1)	* Highest *			
Rainfall total (mm)	66.1	(43 %)	5th lowest			
Sunshine total (hours)	894.3	(156 %)				
N° of:	Dry days	73 (+17)	Wet days	17 (-8)		
Days with:	Air frost	0 (0)	Ground frost	0 (0)	Snow falling	0 (0)
					Snow lying	0 (0)
Thunder	3 (-4)	Hail ≥5mm	0 (0)	Small hail/ice	0 (0)	Fog @09 GMT
						0 (0)
					Nil sun	1 (-3)
Air pressure MSL : Mean @09 GMT (mbar)		1017.5	(+1.3)			

Departure from 1991 to 2020 average shown in brackets.

Notes:

A Record Breaking Season, Very Hot, Very Dry, Very Sunny.

Temperature: The overall daily mean temperature is a new high record in the past 145 years, 1.3° above the previous highest in 2025. The mean maximum is also a new highest, 1.4° above the previous highest in 2022. The mean minimum is also a new highest, 0.8° above the previous highest in 2025. Compared with the long-term median, the anomalies for max, min and mean are +5.5°, +2.8° and +4.0° respectively. It is notable that 6 out of the 7 hottest summers since 1882 have been in this millennium, and 4 in the past 8 years. The highest max this summer was 37.2° on 13th August, 6.7° above the median and 2nd highest in 123 years. The lowest max was 16.9° on 6th June, 2.3° above the median and 5th highest in 114 years. The highest min was 20.7° on 26th June, 3.4° above the median and a new record in the past 114 years. The lowest min was 7.8° on 7th August, 3.3° above its median and joint 2nd highest in 123 years. The mean grass minimum was 10.7°, 1.7° above average and equal highest with 1997 since before 1980, while the lowest grass min, 3.2° on the 7th August, is highest for the season since 1997. Mean earth temperature at 30cm and 1m depths are new record highs, 21.2° at 30 cm is 2.9° above average, and 19.0° at 1 m is 2.3° above average. Also, the highest daily value at both depths are new record highs. Based on the daily mean temperature, July was the hottest month with 21.6°, anomaly +3.7°, then August with 20.4°, anomaly +2.7°, then June with 19.1°, anomaly +3.3°. Daily maximum temperature reached 30° or more from 21st to 27th June, 6th to 12th, 16th and 29th July, and 3rd, 9th, and 12th to 14th August, 21 days in all. **Rainfall:** This summer has been remarkable for the prolonged dry episode that ran from the 12th June to 17th August. In that period only 2.0 mm of rain was recorded, most of which fell on the 22nd June, with only 0.3 mm recorded over the following 56 days. The combination of drought with nearly twice to normal sunshine led the ground to become like concrete. July had 31 dry days, and was the driest month of any name since February 1891. June was the wettest month with 46.1 mm, 91% of average, then August with 19.9 mm, 37% of average. The season's wettest day was the 1st June with 21.1mm. While it has been a very dry season, summer has been drier as recently as 2018, and before that, 1995. The duration of rain was 38.6 hours, 45% of average. Thunder was heard on the 2nd, 22nd and 23rd June, but there was no hail. Rainfall rate reached the violent category on the 4th June, 27th and 29th August, with the highest rate of 114 mm/hr on the latter date. Estimated soil moisture deficit for deep rooted plants started the season at 127 mm and ended at 422 mm. Unirrigated shallow rooted plants were under severe stress throughout, and would be unable to transpire between 14th July and 23rd August. An index of severe plant stress for the summer reached 1186, the highest value since before 1976, but only slightly higher than the 1183 in 1990, average value 662. **Sunshine:** This has been an exceptionally sunny summer with a total of 894 hours sunshine, 305 hours more than average. The daily mean of 9.72 hours is 156 % of average, and while it is highest in the 119 years of the local record, due to the introduction of an electronic sensor in 1998, data from earlier years is not strictly comparable with this summer's figures. Earlier very sunny summers that have similar high totals to this summer are 1911 and 1976. Sunshine in each of the summer months this year has been above average, from 119% in June to 161% in August to 186% in July. The number of days having over 10 hours of sunshine were 9 in June, 23 in July and 17 in August. Several periods were outstandingly sunny, 19th to 26th June, nearly the whole of July, where the least sunny day had 6.8 hours, and the 1st to 14th and 22nd to 25th August. Overall there were 8 days with <3 hours, 72 with =>6 hours and 38 with =>12 hours. **Wind:** The overall mean wind speed of 7.0 mph is 0.8 mph above average and highest since 1994. June was the windiest month, mean 7.9 mph, and August the least windy, mean 6.3 mph. The season's highest gust was 40 mph on the 3rd June. The least windy day was 3.1 mph on the 7th August. Daily mean direction/number of days: N,8 NE,11 E,10 SE,3 S,4 SW,28 W,24 NW,4. Compared with average, winds from S and SW combined were 14% less frequent, and NW 5% less frequent, while W was 11% more frequent and NE and E combined 9% more frequent. **Humidity:** The overall mean relative humidity this summer was 61.5%. The lowest value was 10% on the 13th August. The mean water vapour per kg of air was 9.1g at 0900 GMT and 8.0 g at 1500 GMT. **Pressure:** The highest pressure this summer was 1030.7 mbar on 22nd June and the lowest was 995.0 mbar on the 4th June, span 35.7 mbar, normal 35.3 mbar. **June:** Rainfall below and sunshine above average and a record breaking heatwave. **July:** New records for high temperature and sunshine and low rainfall. **August:** Very dry, very sunny and very hot at times.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Mean Wind mph	Max gust	Mean pressure	Anom
June	24.3°	+3.3°	13.9°	+3.2°	46.1	91%	231.3	119%	7.9	40	1016.1	-0.7
July	28.6°	+5.4°	14.5°	+1.7°	0.1	0%	372.9	186%	7.0	31	1020.7	+4.8
August	27.0°	+4.2°	13.7°	+1.1°	19.9	37%	290.1	161%	6.3	35	1015.6	-0.2

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

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 $(\text{max} + \text{min}) / 2$. 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/wwwp1.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 or 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.