

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

JULY 2026

Temperature (°C)		Anomaly		Rank in the past 145 years	
Mean maximum	28.6	+5.4		* Highest *	
Mean minimum	14.5	+1.7		2nd highest	
Daily mean	21.6	+3.7		* Highest *	
Highest maximum	34.1		on 9th	Lowest maximum	23.1 on 19th
Highest minimum	18.3		on 10th	Lowest minimum	8.7 on 20th
Mean grass minimum	10.5	+0.6		Lowest grass minimum	3.7 on 20th
Mean earth @30 cm	22.6	+3.7		Earth @100 cm	20.0 +3.1
Frost duration (hrs)	0			Rain duration (hrs)	0.6
Rainfall total (mm)	0.1	0 %		* Lowest *	
Highest daily fall	0.1		on 1st	Highest rate mm/hr	3 on 1st
Number of: Dry days (<0.2mm)	31	Wet days (>0.9mm)	0	days ≥5mm	0
Sunshine total (hrs) 372.9	Daily mean 12.03	186 %		Sunniest day	15.6 on 3rd
N° days with: Air frost 0	Ground frost 0	Snow falling 0		Snow lying 0	
Thunder 0	Hail ≥5mm 0	Small hail/ice 0		Fog @09 0	Nil sun 0
Pressure MSL : Mean @09 GMT, mbar 1020.7	+4.8	Highest 1030.3	on 3rd	Lowest 1003.7	on 26th
Relative humidity : Mean (%) 55.5	Lowest 13	on 6th		Water vapour (g/kg), mean at 09 and 15 GMT	9.1, 7.5
Overall mean wind speed (mph) 7.0	Windiest day 12.1	on 13th		Max gust 31	on 26th
Wind direction (days) N 3 NE 9 E 1 SE 0 S 0 SW 4 W 13 NW 1					
Least windy day (mph) 4.1	on 8th	Calm; less than 0.5 mph (minutes)	n/a		

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

Notes:

New Records for High Temperature, Low Rainfall and High Sunshine

This has been a phenomenal July with persistent heat, drought and sunshine. **Temperature:** The mean temperature is a new record in the past 145 years, 0.6° above the previous highest in 2018. It is also 4.5° above the long-term median. The mean maximum is also a new record and 0.6° above the previous highest in 2018. The mean minimum, however, ranks only 2nd highest in 145 years, just 0.2° below the record held by 1983. The highest max is 5.1° above the median and 5th highest in 123 years while the lowest max is 6.1° above its median and is a new record, 1.3° above the previous highest in 2006. The highest min is 1.7° above the median and the lowest min is 1.6° above its median. The mean grass minimum is a relatively small 0.6° above average, and is only 6th highest in this millennium. The relatively low grass min and air min, compared with the very high air mean maximum, attests to the exceptionally low cloud amounts this July, supported by the colossal sunshine amount, and a record low mean cloud amount at 15 GMT, just 41% cover compared with a normal 69%. Earth temperatures are also new record highs, the mean at 30cm is 1.2° above the previous highest in 1983 and 2018. At 1 m depth it is 1.1° above the previous highest in 2018. Anomalies for daily max were above +10° on the 8th to 10th and 29th, with extreme values of +11.7° on the 9th and +0.4° on the 19th. Anomalies for daily min ranged from +5.8° on 10th to -3.6° on the 20th. **Rainfall.** This is the driest July in our local record of 145 years, with a total rainfall of just 0.1 mm, the previous lowest being 4.3 mm in 1921. This July is also the 2nd driest of any month in the past 145 years after February 1891, which had no rain at all. The number of dry day this month is a new record for July. A dry spell that commenced on the 30th June was ongoing on the 31st July. Also, only 2 mm of rain has fallen over the 50 days to the end of July. **Sunshine:** This is the sunniest July on record, and the sunniest month of any name in the past 119 years. The daily mean of 12.03 hours is 0.63 hours higher than the previous highest in July 1911. This month, 15 days had more than 80% of the maximum, and 7 had over 90%, while just 5 had less than 50%, with the lowest of 42% on the 14th. Overall there were 0 days with <3 hours, 31 with =>6 hours and 19 with =>12 hours. **Wind:** The mean speed of 7.0 mph is 0.7 mph above average, and equal highest with 2020 since 2015. The highest gust is 4 mph below average. Daily mean winds were fresh on the 6th, 12th, 13th and 26th, otherwise mainly moderate, except for light from 20th to 24th. Daily mean direction was mainly W'ly from the 1st to 8th and 23rd to 30th, otherwise NE'ly from 10th to 21st, apart from N'ly on 17th and 22nd, and NW'ly on 31st. **Humidity.** The mean relative humidity is lowest for any month in the past 29 years. The lowest value this month is lowest for any July in that period.

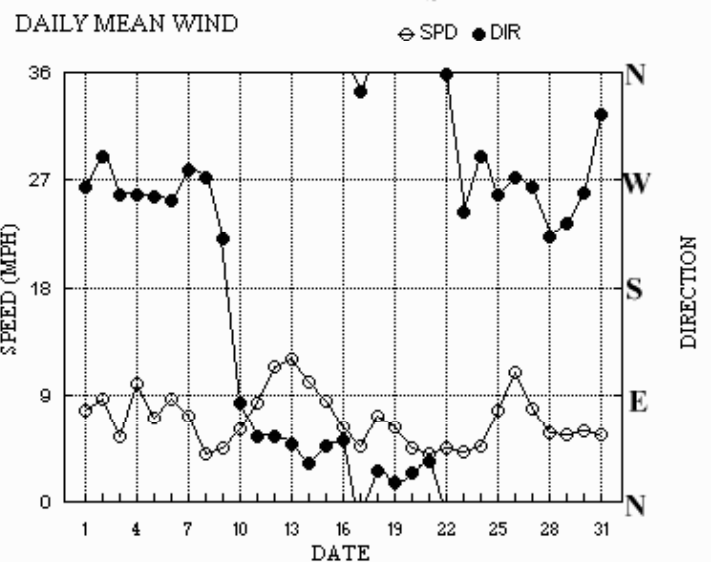
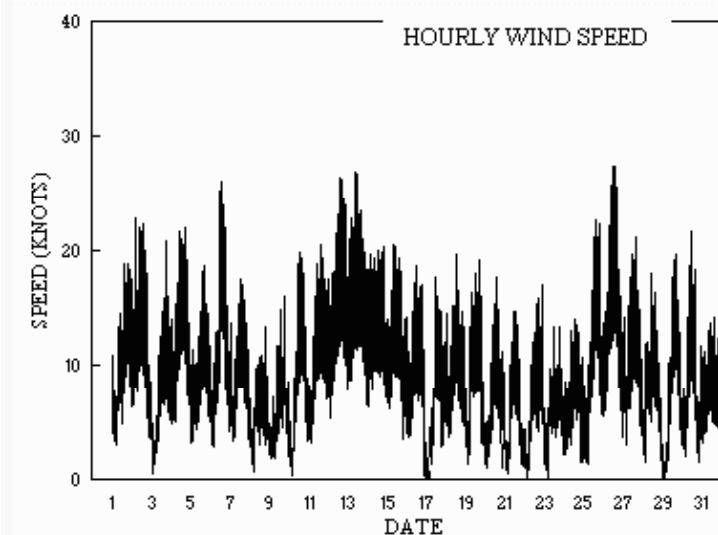
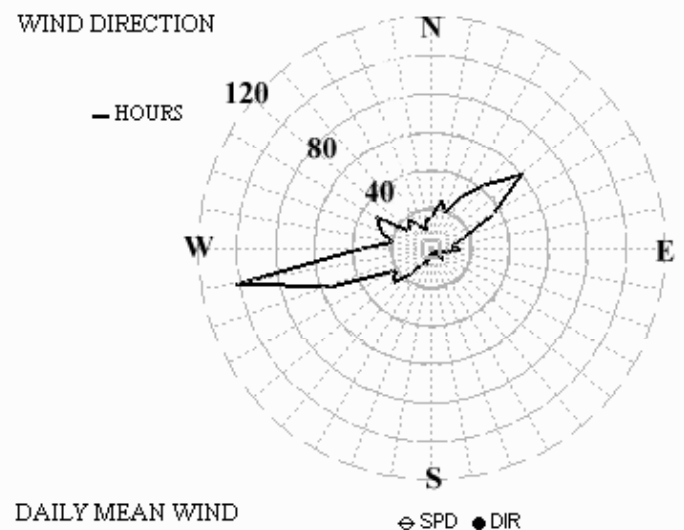
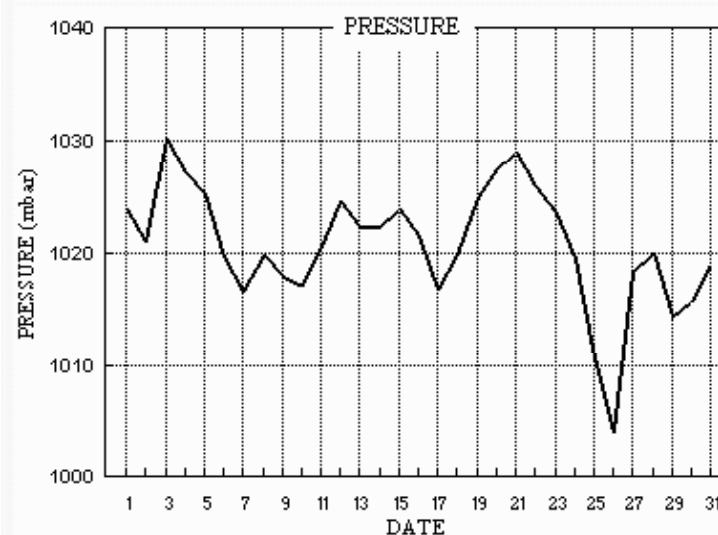
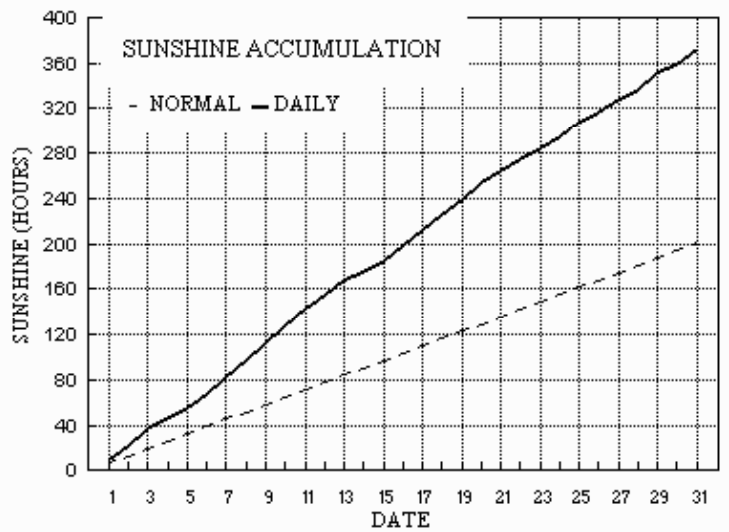
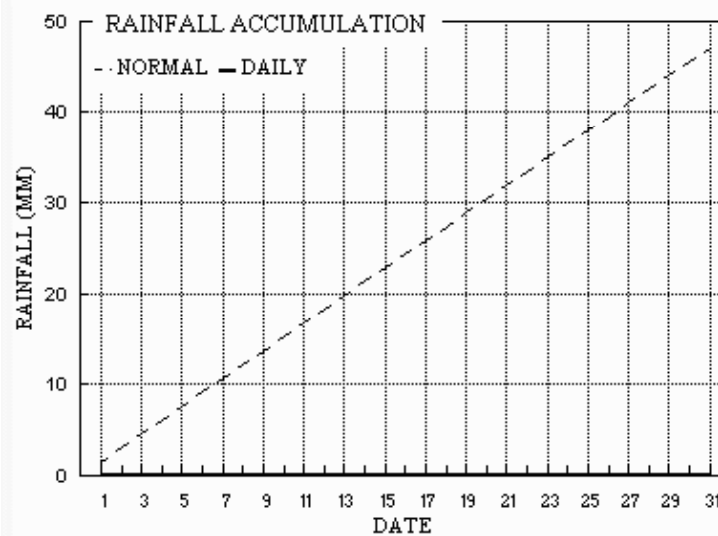
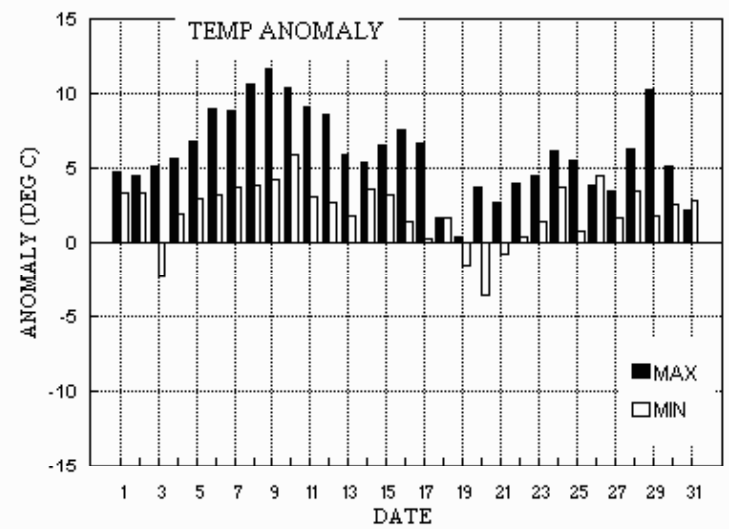
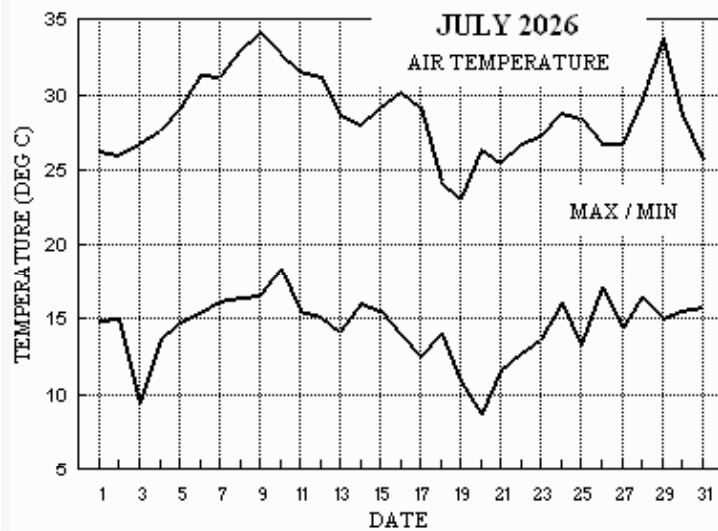
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

From the 1 st to the 10 th				From the 11 th to the 20 th				From the 21 st to the 31 st			
+7.7°	+3.0°	1 %	199 %	+5.5°	+1.3°	0 %	195 %	+4.9°	+2.0°	0 %	167 %

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham climatological graphs for July 2026



Month: JULY 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	26.2	14.9	0.1	11.7	21.2	19.0	10.2	0.0	1023.9	0	0	0	0	263	6.3	6.7	266	19	1515	258	10	18	0.6
2	26.0	15.0	0.0	12.9	21.2	19.0	12.2	0.0	1020.9	0	0	0	0	289	5.7	7.6	253	23	0515	291	11	09	0.0
3	26.8	9.4	0.0	4.7	21.2	19.0	15.6	0.0	1030.1	0	0	0	0	258	4.3	4.8	274	21	1720	255	8	16	0.0
4	27.7	13.7	0.0	10.6	21.4	19.0	9.8	0.0	1027.1	0	0	0	0	257	8.6	8.6	256	22	1625	263	12	15	0.0
5	29.1	14.8	0.0	11.4	21.7	19.1	8.0	0.0	1025.3	0	0	0	0	255	6.1	6.1	257	19	1655	256	9	17	0.0
6	31.4	15.4	0.0	12.3	21.9	19.2	12.2	0.0	1019.6	0	0	0	0	253	7.5	7.6	253	26	1455	261	13	13	0.0
7	31.2	16.2	0.0	10.4	22.0	19.3	15.4	0.0	1016.6	0	0	0	0	278	5.9	6.4	279	18	1350	285	9	14	0.0
8	33.0	16.4	0.0	12.1	22.4	19.4	15.5	0.0	1019.8	0	0	0	0	271	2.1	3.6	214	13	2015	218	6	20	0.0
9	34.1	16.6	0.0	11.8	22.8	19.5	14.3	0.0	1018.0	0	0	0	0	220	3.4	3.9	208	16	1840	200	8	18	0.0
10	32.8	18.3	0.0	14.4	23.1	19.7	15.1	0.0	1017.1	0	0	0	0	84	5.2	5.4	88	20	1305	90	10	17	0.0
11	31.6	15.5	0.0	10.5	23.3	19.8	15.3	0.0	1020.4	0	0	0	0	55	7.1	7.3	67	21	1430	65	10	15	0.0
12	31.2	15.1	0.0	11.4	23.4	20.0	12.5	0.0	1024.5	0	0	0	0	55	9.7	9.9	62	27	1550	56	13	17	0.0
13	28.7	14.2	0.0	10.8	23.6	20.1	13.3	0.0	1022.3	0	0	0	0	48	10.4	10.5	44	27	1005	62	13	16	0.0
14	28.0	16.1	0.0	13.0	23.7	20.3	6.8	0.0	1022.3	0	0	0	0	33	8.8	8.8	39	20	1920	25	11	12	0.0
15	29.2	15.6	0.0	11.9	23.3	20.4	9.8	0.0	1023.8	0	0	0	0	47	7.2	7.5	40	21	0730	43	10	12	0.0
16	30.2	13.9	0.0	9.7	23.3	20.4	12.7	0.0	1021.5	0	0	0	0	52	5.2	5.5	36	19	1210	57	9	11	0.0
17	29.2	12.5	0.0	7.9	23.3	20.5	14.6	0.0	1016.8	0	0	0	0	343	3.1	4.0	312	18	1240	296	8	11	0.0
18	24.2	14.0	0.0	10.5	23.2	20.5	13.1	0.0	1019.8	0	0	0	0	27	6.1	6.2	27	20	1210	22	9	15	0.0
19	23.1	10.8	0.0	5.9	23.0	20.5	13.8	0.0	1024.9	0	0	0	0	17	5.2	5.5	27	19	1625	17	9	11	0.0
20	26.4	8.7	0.0	3.7	22.4	20.5	13.9	0.0	1027.5	0	0	0	0	25	3.4	4.0	3	18	1405	18	7	16	0.0
21	25.5	11.6	0.0	7.4	22.5	20.5	10.4	0.0	1029.0	0	0	0	0	34	3.0	3.6	23	15	1020	33	7	11	0.0
22	26.7	12.8	0.0	8.9	22.4	20.4	11.3	0.0	1025.9	0	0	0	0	358	2.4	4.0	67	17	2240	50	7	19	0.0
23	27.2	13.7	0.0	9.9	22.5	20.4	9.1	0.0	1023.6	0	0	0	0	243	3.1	3.7	248	13	1350	219	6	19	0.0
24	28.8	16.1	0.0	12.6	22.4	20.4	10.8	0.0	1019.5	0	0	0	0	289	3.8	4.1	276	14	1350	279	7	19	0.0
25	28.4	13.3	0.0	8.5	22.5	20.4	13.7	0.0	1010.6	0	0	0	0	258	6.3	6.7	248	23	1545	262	12	16	0.0
26	26.8	17.1	0.0	13.9	22.7	20.4	7.6	0.0	1003.9	0	0	0	0	272	8.7	9.5	274	27	1330	283	13	14	0.0
27	26.8	14.4	0.0	9.0	22.6	20.4	12.5	0.0	1018.2	0	0	0	0	264	6.7	6.8	250	21	1605	255	9	15	0.0
28	29.7	16.4	0.0	12.3	22.8	20.4	7.6	0.0	1020.0	0	0	0	0	223	4.6	5.0	259	18	1245	258	8	12	0.0
29	33.8	15.0	0.0	11.0	23.1	20.5	15.0	0.0	1014.4	0	0	0	0	234	4.2	5.0	216	20	1725	221	10	17	0.0
30	28.7	15.6	tr	10.8	23.4	20.6	7.1	0.0	1015.7	0	0	0	0	259	4.5	5.2	265	22	1235	250	9	11	0.0
31	25.6	15.8	0.0	14.8	23.1	20.7	13.7	0.0	1018.9	0	0	0	0	324	4.7	4.9	279	14	1650	321	6	10	0.0
Total			0.1				372.9	0.0															0.6
Mean	28.6	14.5		10.5	22.6	20.0	12.03	0.0	1020.7					316	1.9	6.1							
Anom	+5.4	+1.7	0%	+0.6	+3.7	+3.1	186%																
Daily mean		21.6																					
Anom		+3.7																					
Number of days with:																							
Air frost = 0			Ground frost = 0			Nil sun = 0																	
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. 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.

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 JULY 2026

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ci	NChs	hshs	NChs	hshs	NChs	hshs	Date	Remarks
1	86	2	30	05	11	20.8	13.0	61	9.2	1023.9	1	007	03	0	0	2	1	5	0	0	82826					1	Cu hum	
2	75	3	29	10	17	21.4	14.3	64	10.0	1020.9	3	007	21	6	1	2	1	5	0	1	82825					2	2Ci80 COTRA Cu hum VV70k ex SE	
3	84	7	36	03	09	19.1	9.0	52	7.0	1030.1	1	001	03	2	2	1	1	6	0	1	81833	87075				3	COTRA Cu hum	
4	88	7	24	10	16	21.1	14.5	66	10.1	1027.1	8	005	03	2	2	7	8	5	/	/	83820	87635				4	Cu hum	
5	86	7	25	03	09	20.4	14.3	68	10.0	1025.3	6	004	02	2	2	7	5	5	3	1	87620					5	/Ac66 /Ci80 COTRA	
6	88	6	23	06	12	25.3	11.5	42	8.3	1019.6	6	006	02	2	2	0	0	9	0	1	83073	85078				6	COTRA	
7	86	6	25	05	11	23.9	13.7	53	9.7	1016.6	0	004	01	2	2	1	0	9	3	8	81366	86078				7	1Cs73 COTRA	
8	81	0	02	05	09	25.8	13.4	48	9.5	1019.8	7	003	02	0	0	0	0	9	0	0						8		
9	72	1	23	04	06	27.7	15.0	46	10.5	1018.0	8	005	02	0	0	0	0	9	0	1	81081					9	COTRA	
10	81	3	09	05	09	26.4	15.1	50	10.6	1017.1	1	001	02	1	1	0	0	9	0	2	83072					10	1Cc75 Cc cas Cc flo vir	
11	81	0	07	08	15	25.4	16.0	56	11.2	1020.4	0	000	02	0	0	0	0	9	0	0						11	El hz lyr	
12	81	1	04	09	16	22.6	14.7	61	10.2	1024.5	0	002	01	1	1	1	5	5	0	1	81623					12	1Ci75	
13	81	5	05	12	23	21.8	12.6	56	9.0	1022.3	8	014	01	1	1	5	5	5	0	0	85626					13		
14	72	8	03	10	17	19.5	13.7	69	9.6	1022.3	1	004	02	2	2	8	5	4	/	/	88618					14		
15	78	7	04	07	17	21.9	15.0	65	10.5	1023.8	0	002	02	2	2	7	5	5	/	1	87621					15	/Ci75	
16	78	1	04	07	13	22.7	13.7	57	9.7	1021.5	8	006	02	0	0	0	0	9	0	1	81075					16		
17	75	1	36	02	05	21.9	11.6	52	8.4	1016.8	8	006	02	0	0	0	0	9	0	1	81075					17	Sky turbid	
18	65	4	36	05	12	18.4	10.8	61	7.9	1019.8	0	005	02	1	1	4	5	5	0	0	84625					18	Sky turbid	
19	84	5	01	07	13	18.4	7.8	50	6.5	1024.9	1	004	03	1	1	1	8	6	0	1	81838	85078				19	1Sc40 COTRA Cu hum	
20	84	5	01	05	08	19.0	7.4	47	6.3	1027.5	8	002	03	1	1	1	0	9	4	9	81363	85172				20	Cc cas vir	
21	86	2	04	05	10	19.6	11.1	58	8.1	1029.0	1	001	03	0	0	2	8	5	0	0	81827					21	2Sc50 Cu hum El hz lyr Sky v turbid	
22	80	6	31	04	09	20.7	13.7	64	9.6	1025.9	7	004	03	1	1	6	5	7	/	/	86650					22		
23	80	7	23	04	09	21.8	13.7	60	9.6	1023.6	8	005	03	2	2	1	1	6	0	1	81830	87080				23	COTRA Cu hum	
24	82	7	34	04	07	21.3	11.3	53	8.3	1019.5	7	010	01	2	2	2	5	8	4	1	82657	87078				24	1Ac70 COTRA	
25	82	3	26	06	11	21.8	10.6	49	7.9	1010.6	8	007	03	0	0	0	0	9	0	2	83073					25	COTRA Ci flo	
26	88	7	27	10	20	23.6	14.0	55	10.0	1003.9	7	007	03	2	2	4	2	5	0	1	84827	86075				26	COTRA Cu med Halo 22° part	
27	88	7	27	06	13	19.5	9.4	52	7.3	1018.2	2	015	03	1	1	7	5	6	/	/	87635					27		
28	82	7	23	05	09	21.8	15.9	69	11.1	1020.0	0	001	01	2	2	7	5	4	3	/	87616					28	/Ac68	
29	86	0	18	02	04	24.7	14.5	53	10.2	1014.4	8	011	02	0	0	0	0	9	0	0						29		
30	86	6	25	08	13	22.1	15.0	64	10.5	1015.7	0	007	03	1	1	6	8	5	0	1	85820					30	1Sc56 1Ci75 Cu med	
31	88	1	36	04	08	20.2	7.2	43	6.3	1018.9	1	002	02	1	1	1	5	7	0	0	81650					31		

Mean vis = 44.5 km

Mean cloud = 4.3 53%

Mean wind speed = 6.0 kn

Mean gust = 12 kn

Mean TT = 22.0 °C

Mean TdTd = 12.7 °C

Mean RH = 56.3 %

Mean r = 9.1 g/kg

Mean PPP = 1020.7 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 JULY 2026

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cf	NChshs	NChshs	NChshs	Date	Remarks
1	88	6	26	08	14	25.6	11.0	40	8.1	1023.2	8	006	02	2	2	2	2	7	6	4	82850	83357	85078	1	COTRA Cu med
2	86	5	32	08	19	25.4	6.6	30	6.0	1023.1	2	013	02	1	1	1	1	7	0	1	81856	85081		2	COTRA Cu hum
3	82	3	25	05	14	26.0	6.6	29	6.0	1027.4	7	013	02	1	1	1	1	7	4	1	81856	83075		3	1Ac65 Cu hum El hz lyr
4	86	1	27	12	18	27.3	13.6	43	9.6	1024.8	7	011	02	0	0	1	1	6	0	1	81845			4	1Ci75 Cu hum
5	86	7	27	07	13	28.2	13.3	40	9.4	1022.8	7	013	03	1	1	1	1	7	0	1	81850	83073	87078	5	COTRA Cu hum
6	89	3	25	13	23	31.3	2.5	16	4.5	1017.4	7	011	02	0	0	1	1	8	0	9	81857			6	2Cc72 2Ci78 Cu hum Cc cas
7	83	6	29	09	15	30.6	10.0	28	7.6	1015.9	8	004	02	2	2	0	0	9	0	1	81075	86080		7	COTRA
8	75	0	31	05	10	32.4	6.6	20	6.0	1018.3	7	011	02	0	0	0	0	9	0	0				8	
9	81	6	22	04	13	32.7	12.3	29	8.9	1015.8	7	012	02	1	1	1	1	8	0	1	81857	86080		9	COTRA Cu hum U/a cont
10	80	3	09	07	17	32.4	12.6	30	9.0	1016.5	7	002	03	0	0	1	1	8	3	2	81857	83072		10	1Ac69 Cu hum
11	81	0	07	09	18	30.8	10.2	28	7.6	1020.1	6	004	02	0	0	0	0	9	0	0				11	
12	83	1	07	11	23	31.1	12.0	31	8.6	1022.5	7	009	02	0	0	1	1	8	0	1	81857			12	1Ci78 COTRA Cu hum
13	82	1	05	11	19	27.6	11.2	36	8.2	1019.9	8	014	02	0	0	0	0	9	0	2	81075			13	Ci edge S
14	75	1	05	08	17	26.9	15.6	50	10.9	1020.6	8	010	01	1	1	1	1	6	0	0	81833			14	Cu hum
15	80	2	04	07	17	28.3	11.8	36	8.5	1021.3	7	013	02	0	0	1	1	7	0	8	82850			15	1Cs75 Cu hum Cs edge S Sky turbid
16	81	2	07	07	13	28.3	9.1	30	7.1	1017.7	7	017	03	0	0	2	2	8	0	1	82857			16	1Ci75 Cu med
17	70	3	34	07	13	28.7	7.3	26	6.3	1015.5	8	006	03	0	0	1	2	8	0	1	81857	83075		17	1Cc72 Cu med Sky turbid
18	78	3	02	07	14	23.3	9.0	40	7.0	1019.7	2	001	03	0	0	3	2	6	0	9	83848			18	1Cc73 Sky turbid
19	85	2	36	07	15	22.9	4.9	31	5.3	1024.4	7	007	01	1	1	1	1	7	0	1	81856			19	1Cc73 2Ci75 Cu hum Cc cas
20	86	1	01	06	16	25.5	2.9	23	4.6	1025.7	6	008	02	0	0	1	1	8	0	0	81857			20	Cu hum
21	84	6	36	05	13	24.8	11.0	42	8.0	1027.6	6	008	02	2	2	6	8	6	/	/	83847	84650		21	Cu hum
22	80	2	02	04	12	25.7	10.7	39	7.9	1023.6	8	012	01	1	1	1	1	6	4	1	81848			22	1Ac69 2Ci73 Cu hum Iridescemce
23	82	7	27	04	09	26.0	8.9	34	7.0	1021.7	8	011	02	2	2	4	8	7	6	1	82850	83656	85358	23	/Ci80 COTRA Cu med
24	81	7	31	06	12	27.3	10.9	36	8.1	1014.9	7	021	02	2	2	3	4	7	0	1	81856	83657	87075	24	
25	81	6	25	10	19	27.6	9.9	33	7.6	1007.0	7	014	03	1	1	1	1	8	7	9	81857	86173		25	1Ac59 1Ac70 Cu hum
26	86	3	28	14	25	25.8	7.4	31	6.4	1006.5	2	015	01	1	1	3	4	7	0	0	83656			26	Sc cugen
27	86	1	25	07	17	26.2	8.2	32	6.7	1017.8	6	006	01	0	0	1	4	7	4	1	81850			27	1Sc50 1Ac68 1Ci75 El hz lyr
28	81	5	23	07	13	27.9	13.8	42	9.7	1017.6	7	013	02	1	1	3	4	7	8	0	83650	83368		28	Sc cugen Ac cas
29	82	1	24	07	16	33.3	10.6	25	7.9	1011.8	6	010	02	0	0	1	1	9	0	1	81858			29	1Ci75 Cu hum El hz lyr
30	70	7	25	06	13	26.1	11.8	41	8.6	1014.7	8	004	15	2	2	4	8	6	6	1	82845	83656	85358	30	/Ci75 Cu med jp W vv70k ex p
31	88	1	31	05	12	25.1	0.6	20	3.9	1017.8	7	005	02	0	0	1	1	9	0	1	81858			31	1Ci80 COTRA Ci SE El hz lyr SW&S

Mean vis = 43.5 km

Mean cloud = 3.3 41%

Mean wind speed = 7.5 kn

Mean gust = 16 kn

Mean TT = 27.8 °C

Mean TdTd = 9.4 °C

Mean RH = 32.6 %

Mean r = 7.5 g/kg

Mean PPP = 1019.1 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-Jul	02-Jul	03-Jul	04-Jul	05-Jul	06-Jul	07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul
Sunshine Hourly analysis 2026	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	0.08	0.00	0.56	0.00	0.00	0.00	0.35	0.40	0.36	0.33	0.34	0.00	0.00	0.00	0.01	0.33
	5	0.89	0.00	0.97	0.01	0.00	0.78	1.00	1.00	1.00	0.79	1.00	0.00	0.49	0.00	0.99	1.00
	6	0.97	0.00	0.93	0.35	0.01	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.92	0.00	1.00	1.00
	7	0.93	0.41	1.00	0.38	0.05	1.00	1.00	1.00	1.00	1.00	1.00	0.46	0.42	0.01	0.80	1.00
	8	0.99	0.63	1.00	0.00	0.09	1.00	1.00	1.00	1.00	0.93	1.00	1.00	0.59	0.00	0.33	1.00
	9	0.49	0.92	1.00	0.00	0.03	0.60	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.00	0.21	1.00
	10	0.78	1.00	1.00	0.23	0.55	0.77	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.55	1.00
	11	0.03	1.00	1.00	0.69	0.66	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.03	0.73	1.00
	12	0.15	1.00	1.00	0.95	0.87	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.30	0.82	0.90
	13	0.41	1.00	1.00	0.99	1.00	1.00	1.00	1.00	0.92	1.00	1.00	1.00	1.00	0.51	0.96	0.95
	14	0.47	1.00	1.00	1.00	0.96	1.00	1.00	1.00	0.72	1.00	1.00	1.00	1.00	1.00	0.93	0.72
	15	0.76	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.74	1.00	1.00	1.00	1.00	1.00	0.76	0.75
	16	0.78	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.53	0.70
	17	0.87	1.00	1.00	1.00	1.00	0.82	0.82	1.00	0.78	1.00	1.00	1.00	1.00	1.00	0.54	0.58
	18	1.00	1.00	1.00	1.00	0.82	0.28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.05	0.46
	19	0.62	1.00	1.00	1.00	0.00	0.00	0.94	1.00	0.73	1.00	0.99	1.00	0.95	0.97	0.64	0.31
	20	0.00	0.20	0.15	0.21	0.00	0.00	0.14	0.08	0.00	0.02	0.00	0.07	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		10.22	12.15	15.62	9.80	8.03	12.24	15.43	15.48	14.26	15.06	15.33	12.53	13.31	6.82	9.84	12.71
	Hour	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	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	0.36	0.26	0.36	0.37	0.37	0.29	0.02	0.00	0.44	0.00	0.46	0.25	0.45	0.40	0.00	0.22
	5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.99	0.00	1.00	0.21	1.00	1.00	0.25	0.69
	6	1.00	0.73	1.00	1.00	1.00	1.00	1.00	0.32	1.00	0.13	1.00	0.00	1.00	1.00	0.64	0.74
	7	1.00	0.72	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.34	0.46	0.00	1.00	0.80	1.00	0.77
	8	1.00	0.70	1.00	1.00	1.00	0.78	1.00	1.00	1.00	0.51	0.00	0.04	1.00	0.66	1.00	0.75
	9	1.00	1.00	0.91	1.00	0.80	0.75	0.71	1.00	0.95	0.52	0.27	0.36	1.00	0.42	1.00	0.74
	10	1.00	1.00	0.39	1.00	0.56	0.96	0.52	1.00	1.00	0.42	0.79	0.93	1.00	0.75	1.00	0.81
	11	1.00	1.00	0.49	1.00	0.68	0.18	0.33	0.82	1.00	0.35	0.99	0.75	1.00	0.38	1.00	0.78
	12	1.00	1.00	0.75	1.00	0.26	0.00	0.39	0.76	1.00	0.41	1.00	0.56	1.00	0.67	1.00	0.80
	13	0.83	0.90	0.93	1.00	0.44	0.71	0.00	0.34	1.00	0.33	1.00	0.48	1.00	0.39	1.00	0.81
	14	0.84	0.90	0.98	1.00	0.06	1.00	0.27	0.39	0.25	0.62	1.00	0.48	1.00	0.03	1.00	0.79
	15	1.00	0.27	1.00	0.98	0.42	1.00	0.29	0.88	0.95	0.60	1.00	0.47	1.00	0.00	1.00	0.83
	16	1.00	0.88	1.00	0.98	0.60	1.00	0.39	0.97	0.91	0.91	0.98	0.84	1.00	0.08	1.00	0.89
	17	1.00	0.95	1.00	0.47	1.00	0.90	1.00	1.00	1.00	0.83	0.99	1.00	1.00	0.33	1.00	0.91
	18	1.00	1.00	1.00	0.81	1.00	0.55	1.00	0.69	0.96	1.00	0.97	0.75	1.00	0.19	1.00	0.86
	19	0.60	0.75	0.95	0.32	0.20	0.17	0.14	0.60	0.28	0.64	0.62	0.50	0.50	0.00	0.76	0.62
	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	0.03
	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		14.62	13.06	13.76	13.93	10.38	11.29	9.07	10.78	13.73	7.60	12.53	7.63	14.95	7.09	13.65	372.90

July 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	20.02	26.2	1542	14.9	202	62.1	91.0	309	32.9	1542	11.9	8.5	410	6.9	1405	1023.08	1024.2	913	1021.6	57	0	
	2	20.45	26.0	1426	13.3	2359	55.4	91.4	628	27.3	1712	10.1	7.7	830	5.3	1712	1024.12	1028.6	2359	1019.5	343	0.1	
	3	19.27	26.8	1554	9.4	410	53.7	85.7	420	24.0	1513	8.5	6.8	8.9	2358	5.2	1514	1027.75	1030.3	616	1026.1	1757	0
	4	20.77	27.7	1424	13.7	400	66.7	91.7	400	40.6	1428	13.8	9.6	10.5	1100	8.4	1337	1025.51	1027.9	237	1024.0	1706	0
	5	21.89	29.1	1609	14.8	250	64.0	94.7	255	33.9	1615	14.0	9.7	10.7	820	8.5	1639	1022.78	1026.2	0	1021.4	2357	0
	6	24.12	31.4	1459	15.4	500	44.2	83.9	500	12.9	1508	8.7	7.1	9.6	0	3.7	1508	1017.14	1021.5	0	1015.8	1931	0
	7	24.69	31.2	1549	16.2	410	43.5	66.7	605	23.1	1607	10.7	8.0	10.2	910	5.5	1607	1016.36	1018.5	2358	1015.2	1651	0
	8	25.65	33.0	1541	16.4	430	46.4	79.4	430	16.0	1438	11.4	8.4	10.4	2130	5.0	1434	1018.37	1020.1	602	1017.0	1835	0
	9	26.34	34.1	1450	16.6	440	50.1	85.0	450	23.8	1451	13.7	9.7	11.1	2155	7.6	1515	1015.91	1018.5	730	1014.5	1751	0
	10	25.84	32.8	1422	18.1	2359	49.7	82.3	500	23.6	1839	13.3	9.5	11.3	630	5.6	1841	1017.06	1019.5	2353	1015.9	1620	0
	11	24.24	31.6	1351	15.5	450	54.2	84.0	450	22.8	1507	12.9	9.2	11.8	950	6.5	1745	1020.57	1023.3	2353	2019.3	1557	0
	12	23.33	31.2	1456	15.1	300	52.7	84.8	301	26.7	1613	11.8	8.6	11.1	1048	5.2	2008	1023.19	1024.7	2358	1021.6	1534	0
	13	21.73	28.7	1549	14.2	337	56.6	81.2	2359	30.8	1531	12.0	8.6	10.2	2020	6.8	30	1020.70	1024.8	35	1018.7	1644	0
	14	21.23	28.0	1634	16.1	59	67.3	85.2	2357	40.9	1634	14.5	10.1	11.4	1305	9.3	55	1021.23	1023.2	2359	1019.3	1732	0
	15	22.28	29.2	1539	15.6	356	61.7	92.5	423	29.6	1537	13.6	9.6	10.9	1141	7.9	1558	1021.93	1023.9	746	1020.1	1737	0
	16	22.20	30.2	1421	13.9	456	56.7	95.5	516	19.8	1433	11.7	8.5	10.1	725	5.7	1433	1018.08	1023.1	2	1016.0	1735	0
	17	21.61	29.2	1532	12.5	417	53.7	93.2	503	22.9	1515	10.2	7.7	9.6	2359	5.2	1808	1015.95	1018.0	2358	1014.5	1717	0
	18	19.30	24.2	1438	14.0	2348	58.6	85.6	456	32.8	1307	10.3	7.7	9.7	5	6.5	1241	1020.30	1023.0	2358	1017.8	0	0
	19	17.46	23.1	1500	10.8	406	52.6	86.8	500	24.9	1604	6.5	6.0	7.3	50	4.4	1741	1025.06	1027.0	2352	1022.8	0	0
	20	18.73	26.4	1423	8.7	407	49.9	88.9	502	20.6	1431	6.2	5.8	7.6	2355	4.3	1450	1026.14	1027.8	2359	1024.8	1656	0
	21	19.43	25.5	1604	11.6	443	59.9	85.1	433	37.3	1604	10.9	7.9	8.7	1517	7.0	315	1027.46	1029.2	904	1026.4	1925	0
	22	20.57	26.7	1522	12.8	505	61.3	95.2	517	30.4	1705	11.9	8.5	9.7	936	6.6	1606	1023.97	1027.2	7	1022.4	1817	0
	23	21.11	27.2	1507	13.7	433	59.2	93.2	435	31.0	1724	12.0	8.6	9.8	920	6.8	1544	1021.80	1024.5	33	1020.2	1800	0
	24	22.25	28.8	1433	16.1	408	50.7	76.5	209	28.9	1433	10.7	7.9	8.8	150	6.0	2018	1014.89	1021.6	0	1012.9	2001	0
	25	20.93	28.4	1542	13.3	504	54.9	83.7	419	28.5	1316	10.6	7.9	9.6	2352	6.1	1053	1007.69	1013.5	3	1006.2	1607	0
	26	21.43	26.8	1325	17.1	27	55.2	79.8	549	30.2	1503	11.3	8.4	11.5	730	6.2	1633	1008.01	1013.2	2358	1003.7	906	0
	27	20.91	26.8	1506	14.4	427	54.4	81.4	2359	30.3	1505	10.6	7.9	10.4	2353	6.5	1402	1018.73	1020.7	2340	1013.0	1	0
	28	22.92	29.7	1436	16.4	407	64.3	93.3	500	35.2	1407	15.0	10.5	11.4	1015	9.3	1440	1017.52	1020.6	20	1015.8	1801	0
	29	24.66	33.8	1411	15.0	444	54.7	94.3	510	19.7	1444	13.1	9.3	11.1	759	6.5	1444	1012.67	1016.6	5	1010.8	1624	0
	30	21.43	28.7	1349	15.6	444	64.9	91.2	454	33.2	1352	14.0	9.9	11.1	2223	7.9	1352	1015.55	1016.9	2358	1014.2	1	0
	31	20.58	25.6	1534	15.8	616	39.7	72.3	0	17.7	1527	5.3	5.6	9.7	0	3.5	1527	1018.14	1020.0	2344	1016.7	1	0
Total																						0.1	
Mean		21.85	28.65		14.41		55.5	86.30		27.49		11.33	8.36	10.17		6.32		1019.60	1022.52		1049.94		
Max		26.34	34.10		18.08		67.3	95.50		40.86		15.03	10.49	11.84		9.33		1027.75	1030.30		2019.30		
Min		17.46	23.10		8.74		39.7	66.71		12.88		5.28	5.57	7.25		3.55		1007.69	1013.24		1003.69		

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

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.