

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

OCTOBER 2025

Temperature (°C)	Anomaly		Rank in the past 144 years	
Mean maximum	15.2	-0.3	53rd highest	
Mean minimum	8.9	+1.4	9th highest	
Daily mean	12.0	+0.5	21st highest	
Highest maximum	20.4	on 6th	Lowest maximum	11.9 on 26th
Highest minimum	13.8	on 3rd	Lowest minimum	3.7 on 26th
Mean grass minimum	6.3	+2.0	Lowest grass minimum	-0.5 on 26th
Mean earth @30 cm	13.5	+0.1	Earth @100 cm	14.5 -0.2
Frost duration (hrs)	0.0		Rain duration (hrs)	51.9
Rainfall total (mm)	49.9	68 %	50th lowest	
Highest daily fall	12.2	on 19th	Highest rate mm/hr	30 on 20th
Number of: Dry days (<0.2mm)	16	Wet days (>0.9mm)	8	days ≥5mm 4
Sunshine total (hrs) 81.6	Daily mean 2.63	71 %	Sunniest day	10.0 on 6th
N° days with: Air frost 0	Ground frost 1	Snow falling 0	Snow lying 0	
Thunder 0	Hail ≥5mm 0	Small hail/ice 0	Fog @09 0	Nil sun 9
Pressure MSL : Mean @09 GMT, mbar 1015.2	+0.7	Highest 1035.6	on 11th	Lowest 977.1 on 23rd
Relative humidity : Mean (%) 83.8	Lowest 48	on 4th	Water vapour (g/kg), mean at 09 and 15 GMT 7.5, 7.3	
Overall mean wind speed (mph) 6.0	Windiest day 14.4	on 4th	Max gust 44	on 4th
Wind direction (days) N 2 NE 4 E 2 SE 1 S 6 SW 7 W 8 NW 1				
Least windy day (mph) 1.1	on 11th	Calm; less than 0.5 mph (minutes) n/a		

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

Notes:

Very Dull with Mean Temperature Above, and Rainfall Below, Average.

Temperature: The mean this October, while slightly above average, is similar to October last year, but is cooler than the Octobers of 2021 to 2023. This year there is a notable discrepancy between the anomalies for mean maximum and mean minimum, indicating that the mean daily temperature range is 1.7° less than average, and is equal lowest for October with 1998 since 1976. This temperature pattern indicates that the month was cloudier than average by both day and night, as indeed the sunshine data shows. The highest max is 0.2° above the median while the lowest max is 2.4° above its median. The highest min is 0.6° above the median while the lowest min is 4.6° above its median and is 5th highest in 122 years. The mean grass minimum is 2.0° above average and the lowest grass min is 5th highest for the month in 46 years. Earth temperature at 30 cm and 1 m depth are close to average. Anomalies for daily max were generally never far from zero, with extreme values of +4.3° on the 6th and -3.1° on the 14th. Anomalies for daily min were above +4° on the 3rd, 18th, 19th, 28th and 29th, and exceeded -2° on the 12th and 26th, with extreme values of +5.5° on 3rd and -3.9° on 12th.

Rainfall: This has been quite a dry October and driest since 2017. According to the current 30 year average, October is the 2nd wettest month of the year after November, which is only marginally wetter. In recent years 2019, 2020, 2021 and 2023 all had wet Octobers, and October 2020 was the wettest since 1960. This October, after a wet start, it became dry from the 4th to the 18th, the 15 days having a total of just 0.8 mm, and 13 of them were dry and included a dry spell of 8 days ending on the 11th. Most of the month's rain fell between the 19th and 22nd. Daily accumulation compared with normal showed a deficit of 30 mm on the 18th, decreasing to 10 mm by the 22nd, then increasing to 23 mm by the 31st.

Sunshine: This has been a very dull October, the daily mean of 2.63 hours is lowest for any October in this millennium, and is lowest since 1982, but as recently as 2020 there was a similarly dull October with a total just 1 hour more than this year's. The number of days with nil sun is highest since 1982 and is 4 more than the average for the past 46 years. There was a notable 7 day period to the 19th when the sun shone on only one day, the 17th, and then for only 0.1 hours. Sunshine accumulation compared with normal was 2 hours in deficit by the 12th, increasing to 35 hours by the 23rd, then decreasing to 24 hours by the 28th but ending the month 32 hours down. Overall there were 19 days with <3 hours and 5 with ≥6 hours.

Wind: The mean speed this October is 0.2 mph below average but the month's highest gust is average. The mean speed on the month's windiest day is 1.2 mph above average and is the windiest October day since 2018 and before that 2002. Daily mean winds were fresh on the 3rd, 5th, 23rd, 28th and 31st, and strong on the 4th, but were light or very light otherwise until the 20th, then mainly moderate. Daily mean directions were between N and E from 12th to 17th, between E and S on 18th and 19th, between W and N from 8th to 11th and on 23rd and 25th, otherwise were between S and W.

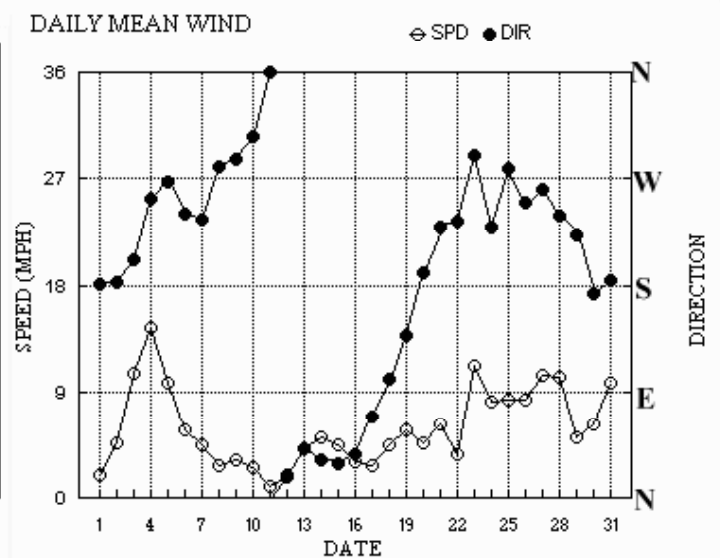
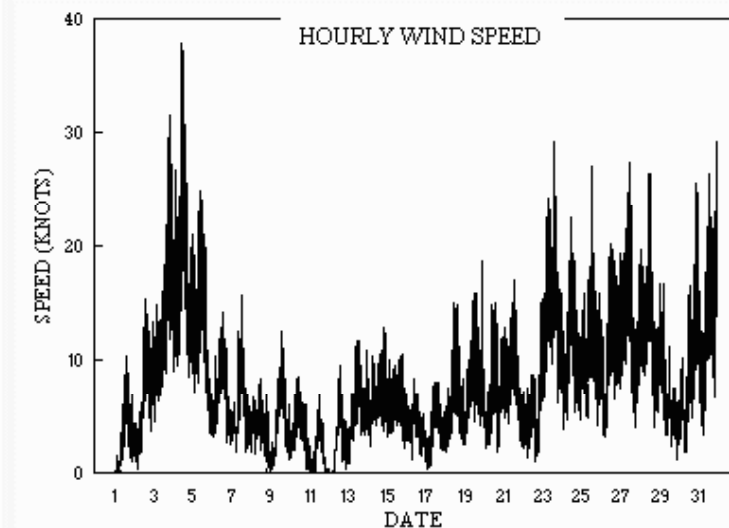
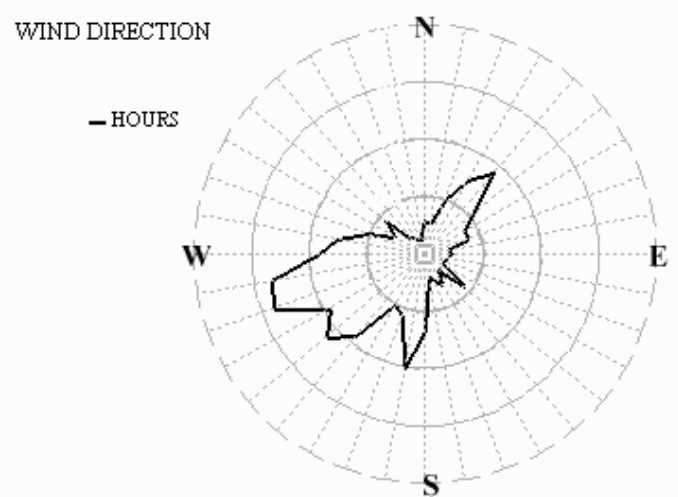
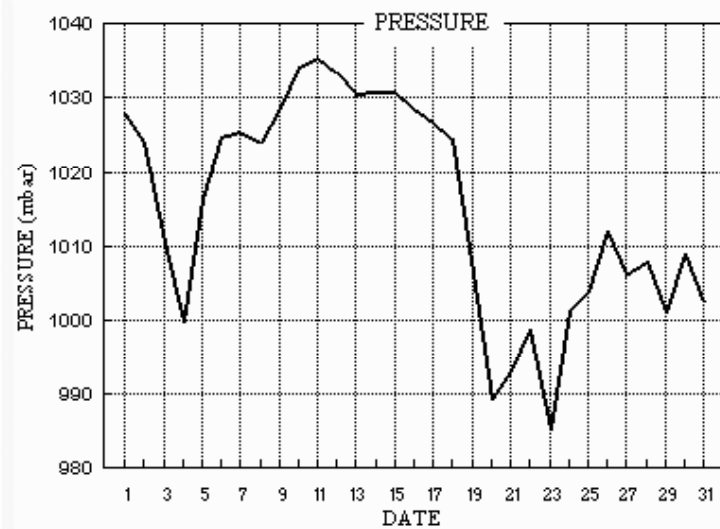
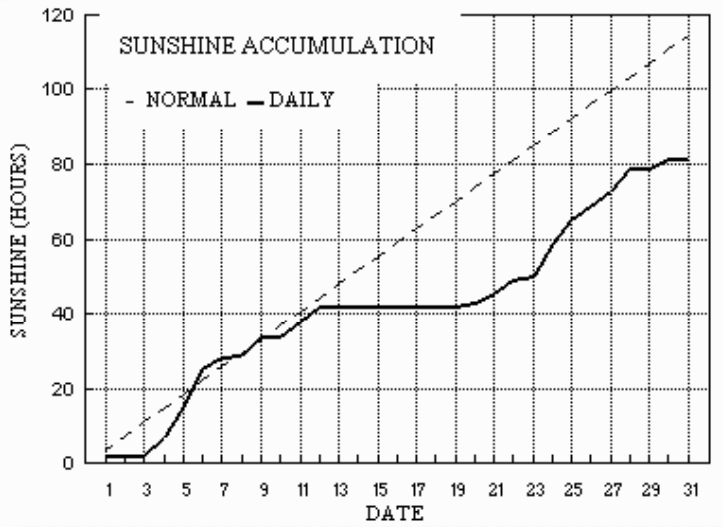
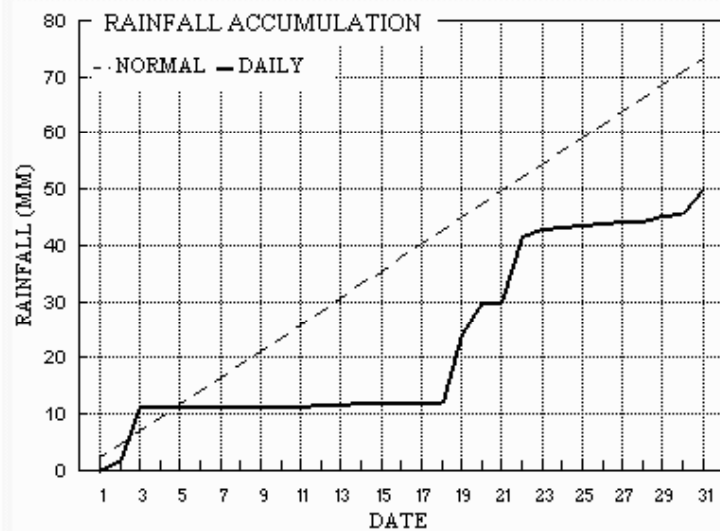
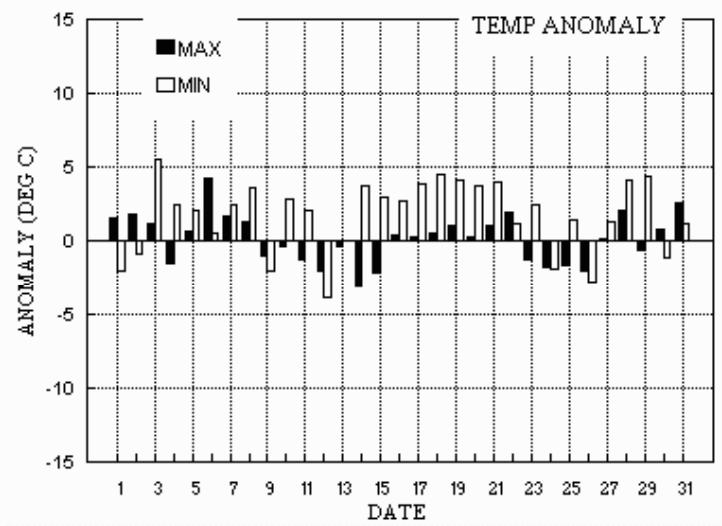
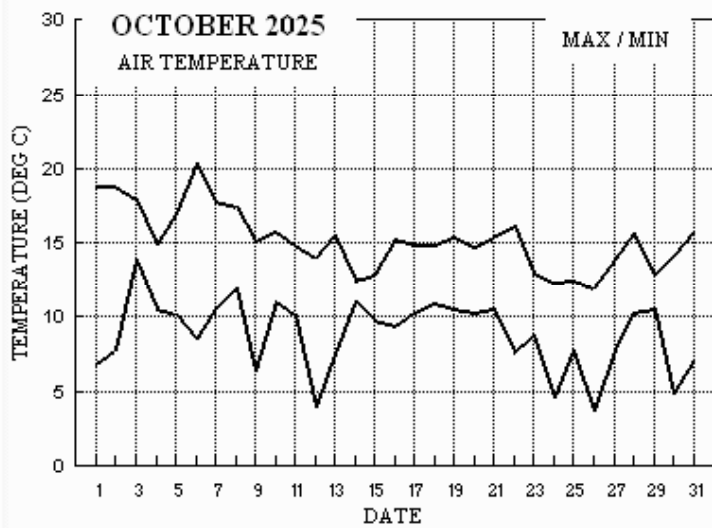
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

From the 1 st to the 10 th				From the 11 th to the 20 th				From the 21 st to the 31 st			
+0.9°	+1.4°	47%	92%	-0.7°	+2.3°	79%	25%	+0.1°	+1.3°	77%	95%

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham climatological graphs for October 2025



Month: OCTOBER 2025

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	18.8	6.9	tr	3.3	13.8	15.1	2.2	0.0	1027.9	0	0	0	0	181	1.7	1.8	173	11	1510	198	5	14	0.0
2	18.8	7.8	2.1	3.9	13.9	15.0	0.1	0.0	1024.0	0	0	0	0	183	4.0	4.1	193	16	1445	189	8	14	2.9
3	17.9	13.8	9.1	13.4	14.4	15.0	0.0	0.0	1010.5	0	0	0	0	201	8.8	9.3	210	32	1950	208	15	18	7.8
4	14.9	10.5	0.0	8.0	14.8	15.0	4.9	0.0	999.7	0	0	0	0	253	12.3	12.5	250	38	1140	256	20	11	0.0
5	16.9	10.1	0.0	5.9	14.2	15.0	8.3	0.0	1016.3	0	0	0	0	267	8.2	8.6	293	25	1030	287	13	12	0.0
6	20.4	8.5	0.0	5.3	13.8	15.0	10.0	0.0	1024.8	0	0	0	0	240	4.9	5.0	240	14	1425	245	8	13	0.0
7	17.8	10.5	tr	7.3	14.0	14.9	2.7	0.0	1025.5	0	0	0	0	235	3.7	3.9	240	16	1300	238	7	12	0.1
8	17.4	11.9	tr	7.9	14.3	14.8	0.7	0.0	1023.9	0	0	0	0	280	1.9	2.4	302	8	1140	239	4	04	0.0
9	15.1	6.3	0.0	2.8	14.4	14.8	5.0	0.0	1028.6	0	0	0	0	286	2.7	2.9	291	13	1400	302	6	13	0.0
10	15.8	11.0	0.0	11.1	14.3	14.8	0.0	0.0	1034.3	0	0	0	0	305	1.9	2.3	325	9	1020	318	5	10	0.0
11	14.9	10.1	0.0	6.2	14.5	14.8	4.2	0.0	1035.5	0	0	0	0	359	0.9	1.0	333	7	1205	354	3	13	0.0
12	14.0	3.9	0.4	0.3	14.0	14.8	4.1	0.0	1033.4	0	0	0	0	20	1.5	1.6	29	10	1355	19	5	14	3.0
13	15.5	7.5	tr	3.3	13.7	14.7	0.0	0.0	1030.5	0	0	0	0	42	3.6	3.7	59	12	1230	43	6	13	0.0
14	12.4	11.0	0.3	10.9	14.0	14.6	0.0	0.0	1030.9	0	0	0	0	33	4.3	4.5	52	13	2130	48	6	21	2.7
15	12.9	9.8	tr	9.6	14.0	14.6	0.0	0.0	1030.8	0	0	0	0	30	3.9	4.0	47	11	1905	26	5	16	0.0
16	15.2	9.4	0.0	7.1	13.9	14.6	0.0	0.0	1028.7	0	0	0	0	37	2.7	2.8	65	8	1050	45	4	10	0.0
17	14.9	10.3	0.0	7.9	14.1	14.5	0.1	0.0	1026.7	0	0	0	0	70	2.3	2.4	94	8	1205	70	5	14	0.0
18	14.9	10.9	0.1	9.9	14.2	14.5	0.0	0.0	1024.4	0	0	0	0	101	3.7	3.9	117	15	1200	120	7	11	0.1
19	15.4	10.5	12.2	9.4	14.0	14.5	0.0	0.0	1006.3	0	0	0	0	138	4.2	5.0	247	19	2125	230	8	21	8.9
20	14.7	10.3	5.7	6.1	14.0	14.5	0.7	0.0	989.3	0	0	0	0	190	2.9	4.0	187	15	1500	250	7	23	2.8
21	15.4	10.5	0.1	6.6	14.0	14.5	2.4	0.0	993.0	0	0	0	0	228	5.5	5.5	245	17	1455	226	9	14	0.2
22	16.2	7.6	11.6	3.4	13.7	14.5	3.9	0.0	998.6	0	0	0	0	234	1.0	3.3	6	15	2355	24	7	22	11.7
23	13.0	8.8	1.4	8.4	13.6	14.4	1.0	0.0	985.2	0	0	0	0	289	8.4	9.8	262	29	1445	264	14	14	3.2
24	12.3	4.6	0.2	1.4	12.8	14.3	8.7	0.0	1001.3	0	0	0	0	228	6.9	7.1	239	23	1235	236	11	12	0.3
25	12.4	7.8	0.3	5.3	12.3	14.2	6.2	0.0	1003.9	0	0	0	0	278	7.0	7.3	297	27	1400	288	11	15	0.4
26	11.9	3.7	0.6	-0.5	11.9	14.0	3.6	0.0	1012.1	0	1	0	0	250	6.9	7.3	257	20	1300	263	10	13	1.4
27	13.8	7.7	0.2	6.2	11.7	13.7	4.1	0.0	1006.2	0	0	0	0	261	8.5	9.1	284	28	1115	277	14	09	0.2
28	15.6	10.3	tr	6.5	11.8	13.5	6.2	0.0	1007.9	0	0	0	0	239	8.7	8.9	247	26	1125	251	14	12	0.0
29	12.8	10.5	1.0	6.9	12.1	13.4	0.0	0.0	1001.1	0	0	0	0	222	3.9	4.4	214	17	0220	210	8	01	1.9
30	14.1	4.8	0.5	1.6	11.7	13.3	2.4	0.0	1008.9	0	0	0	0	173	4.8	5.4	175	26	2245	178	12	22	1.1
31	15.8	7.1	4.1	9.8	11.7	13.2	0.1	0.0	1002.2	0	0	0	0	184	8.4	8.5	190	29	2335	187	14	23	3.2
Total			49.9				81.6	0.0															51.9
Mean	15.2	8.9		6.3	13.5	14.5	2.63	0.0	1015.2					240	2.6	5.2							
Anom	-0.3	+1.4	68%	+2.0	+0.1	-0.2	71%																
Daily mean		12.0																					
Anom		+0.5																					

Number of days with:

Air frost = 0 Ground frost = 1 Nil sun = 9
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 OCTOBER 2025

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	61	8	13	01	04	13.5	11.6	88	8.3	1027.9	0 003	21	6	2	5	0	9	7	/	81358	85360	88468							
2	30	7	18	02	05	13.8	13.6	99	9.6	1024.0	8 009	10	4	2	5	6	1	7	8	85702	85368	87272						2	
3	50	8	19	08	14	15.9	15.7	99	11.1	1010.5	6 009	58	6	5	8	7	2	/	/	87704	88706							3	
4	80	1	25	14	26	11.9	6.6	70	6.1	999.7	0 009	02	0	0	1	1	5	6	3	81822								4	1Ac60 1Ci68 Cu hum Cb tops S to W
5	82	1	27	11	24	13.3	7.1	66	6.2	1016.3	2 030	03	0	0	1	8	5	0	4	81822								5	1Sc40 1Ci75 Cu fra
6	84	1	25	06	12	13.9	10.7	81	7.9	1024.8	1 009	01	1	1	1	8	4	0	0	81812								6	1Sc40 Cu fra Sc len
7	84	8	23	05	13	13.5	10.1	80	7.6	1025.5	1 007	03	1	1	8	8	5	/	/	82820	88625							7	
8	67	7	25	03	05	14.8	12.5	86	8.9	1023.9	1 007	01	5	2	7	6	4	/	/	86710	85620							8	
9	62	1	27	04	06	11.0	9.1	88	7.0	1028.6	2 010	02	0	0	1	5	5	0	1	81625								9	1Ci81 COTRA
10	84	8	30	03	07	14.7	10.7	77	7.8	1034.3	2 014	02	2	2	8	5	5	/	/	88622								10	
11	82	7	36	01	03	13.3	9.2	76	7.0	1035.5	3 006	02	2	2	7	5	5	/	/	87621								11	
12	50	8	07	01	02	9.5	9.2	98	7.1	1033.4	2 004	10	2	2	8	6	4	/	/	88712								12	
13	59	8	05	05	09	13.3	12.8	97	9.0	1030.5	1 007	10	5	2	8	5	3	/	/	83709	88613							13	
14	65	8	03	04	10	11.7	9.9	89	7.5	1030.9	1 010	20	5	2	8	6	3	/	/	88707								14	
15	57	8	04	04	10	10.6	10.1	97	7.5	1030.8	1 006	51	5	5	8	6	2	/	/	86705	88708							15	
16	82	7	04	04	06	11.6	10.0	90	7.5	1028.7	1 004	03	2	2	7	5	3	/	/	87708	87640							16	
17	67	7	07	02	05	13.4	10.9	85	8.0	1026.7	2 005	02	2	2	7	5	4	/	/	81613	87638							17	
18	70	8	10	05	11	12.3	8.6	78	6.8	1024.4	8 003	02	2	2	7	8	5	/	8	81820	87642							18	/Cs75 Cu hum
19	72	8	12	06	12	13.8	11.0	83	8.2	1006.3	7 021	60	6	2	1	5	4	7	/	81713	83358	87361					19	1Sc40 /As65	
20	60	7	17	05	12	13.8	13.5	98	9.8	989.3	6 017	25	8	6	5	8	4	7	1	82710	83815	86362					20	2Sc50 /Ci72 Cu med jp N vv25k ex p	
21	83	7	22	06	11	12.6	10.7	88	8.1	993.0	0 004	02	8	1	3	5	4	0	1	83610	86077							21	1Sc45 COTRA Halo 22° part
22	61	7	22	02	05	11.0	10.7	98	8.1	998.6	1 009	02	2	2	6	5	2	/	1	81705	86656							22	1Sc50 2Ci77
23	62	8	31	10	24	8.9	7.5	91	6.6	985.2	2 060	61	6	6	8	5	4	/	/	86612	88650							23	
24	84	1	23	06	14	8.2	4.8	79	5.4	1001.3	0 005	02	0	0	1	8	4	0	0	81812								24	1Sc50 Cu fra
25	80	3	27	05	08	10.7	6.8	77	6.2	1003.9	2 024	15	1	1	3	8	4	0	1	81818	83630							25	Cu med 1Sc50 1Ci70 jpW Parhelion Rainbow part
26	86	2	26	07	13	7.3	3.2	75	4.8	1012.1	1 012	02	0	0	1	5	6	0	1	81640								26	2Ci73 COTRA Ci fib/flo
27	80	3	27	12	22	11.9	5.1	63	5.5	1006.2	3 021	02	0	0	1	5	7	0	1	81650	83081							27	COTRA
28	80	3	25	10	18	12.4	8.5	77	6.9	1007.9	1 018	01	6	1	1	0	9	4	9	81368	83173							28	1Ci72 COTRA Parhelion Cz arc part
29	82	8	20	04	11	11.8	8.6	81	7.0	1001.1	7 006	03	2	2	1	5	6	8	/	81635	83359	88465					29	Ac cas vir	
30	70	6	18	02	05	7.1	6.7	97	6.1	1008.9	2 020	03	1	1	3	0	9	7	6	81362	83368	86278					30	COTRA Ac str vir	
31	65	8	16	04	11	14.1	13.3	95	9.6	1002.2	0 000	25	8	2	8	5	3	/	/	87609	88650							31	jpS

Mean vis = 25.7 km

Mean cloud = 5.9 73%

Mean wind speed = 5.2 kn

Mean gust = 11 kn

Mean TT = 12.1 °C

Mean TdTd = 9.6 °C

Mean RH = 85.4 %

Mean r = 7.5 g/kg

Mean PPP = 1015.2 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 OCTOBER 2025

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NCh	shs	NCh	shs	Date	Remarks
1	83	7	19	06	11	18.0	10.6	62	7.8	1026.5	8	012	01	2	2	1	4	5	7	1	81628	87370					1	1Ac62 /Ci75
2	84	8	19	09	16	18.4	11.5	64	8.3	1020.3	7	027	02	2	2	1	1	5	7	/	81829	83363	87365				2	8As68 Cu fra Ac vir
3	59	8	20	10	23	16.3	15.5	95	11.0	1005.6	8	027	63	6	2	7	7	4	2	/	86710	83635	88550				3	
4	84	7	27	15	32	13.8	6.2	60	5.9	1003.5	1	020	02	2	2	7	5	6	/	/	85632	87640					4	
5	89	7	28	11	20	16.1	7.8	58	6.5	1018.4	2	008	02	2	2	3	4	6	0	1	82833	86080					5	2Sc45 1Cc75 Cu med U/a cont
6	84	1	24	06	15	20.1	12.4	61	8.8	1023.9	8	009	02	0	0	1	8	6	0	1	81832						6	1Sc56 1Ci81 COTRA Cu hum Sc len
7	82	7	26	07	13	17.0	9.4	61	7.2	1023.5	7	011	02	2	2	5	5	6	0	1	85633	83080	87081				7	COTRA Parheliion
8	86	5	28	04	07	17.2	12.7	75	9.0	1023.4	7	006	01	2	2	5	8	4	0	0	82818	84640					8	Cu med
9	75	7	31	05	13	14.8	9.4	70	7.2	1028.6	5	000	02	2	2	6	5	5	/	1	86620						9	2Ci80
10	86	8	31	02	06	15.5	11.1	75	8.0	1034.1	6	005	02	2	2	8	5	5	/	/	88620						10	
11	61	6	36	03	05	14.6	8.5	67	6.8	1034.1	6	009	01	2	2	1	5	5	0	1	81628	85081					11	2Cc72 COTRA
12	59	1	03	05	08	13.6	8.9	73	6.9	1031.4	6	013	05	1	1	1	1	4	0	1	81818						12	1Ci80 Cu fra/hum
13	86	8	04	06	12	14.8	11.9	83	8.5	1028.9	6	011	02	2	2	8	5	4	/	/	83615	88618					13	
14	65	8	02	05	09	12.3	10.4	88	7.7	1030.0	8	007	20	5	2	8	6	3	/	/	85709	88711					14	
15	86	8	03	05	11	12.6	9.4	81	7.2	1029.2	7	013	02	2	2	8	5	4	/	/	86614	88617					15	
16	83	7	05	02	06	15.0	9.6	70	7.3	1026.8	6	011	02	2	2	7	8	5	/	/	81820	87640					16	Cu hum
17	84	8	07	05	09	14.5	8.2	66	6.7	1025.4	7	008	02	2	2	8	8	5	/	/	81825	88642					17	Cu hum
18	84	8	13	07	15	14.1	6.9	62	6.1	1020.8	7	020	01	2	2	3	4	6	2	/	81830	83640	88465				18	Cu hum As op vir
19	65	8	16	07	16	14.8	14.0	95	10.0	999.0	8	040	61	6	6	4	2	3	2	/	83706	88535					19	2Cu012 Cu med
20	70	7	18	07	15	14.4	12.6	89	9.3	984.5	6	024	15	8	2	7	8	3	/	1	83809	86620					20	/Sc56 /Ci75 Cu med jpSW vv50k ex p
21	50	7	25	10	18	14.7	10.7	77	8.1	992.9	5	003	80	8	2	7	8	3	/	/	81706	83815	87640				21	4Sc30 Cu med vv50k ex p
22	88	7	19	04	08	13.9	6.5	61	6.1	995.5	7	017	03	1	1	1	4	6	1	6	81835	83470	87275				22	1Sc50 Cu hum
23	80	7	27	14	29	11.4	6.1	70	6.0	992.5	1	020	15	6	1	5	8	5	2	/	81825	84650	87465				23	2Sc40 jpNW-NE Cu con top N&NE vv60k ex p
24	65	2	23	11	19	11.5	5.2	65	5.5	999.5	7	011	15	8	1	1	8	5	6	1	81825						24	1Sc56 1Ac60 1Ci70 Cu med jpE&NW vv40k ex p
25	70	3	30	10	27	10.0	3.9	66	5.1	1005.7	1	002	25	8	1	3	8	5	0	1	81825	83635					25	1Sc56 1Ci72 Cu med jpE vv70k ex p
26	86	8	25	09	20	9.8	3.8	66	5.0	1010.1	8	017	03	2	2	1	1	6	2	/	81830	88556					26	Cu fra
27	84	7	28	09	24	13.1	4.8	57	5.3	1009.8	1	012	02	2	2	2	8	6	7	/	81832	86362					27	2Sc45 Cu hum
28	82	7	25	11	21	14.1	6.7	61	6.1	1007.3	5	003	15	1	1	4	8	6	3	0	83833	85369					28	2Sc50 Cu med jp NW
29	80	8	29	04	06	10.6	9.4	92	7.4	998.2	6	008	21	6	2	8	8	4	/	/	81815	85640	88650				29	Cu hum
30	82	8	17	07	17	12.6	5.3	61	5.5	1007.1	6	009	02	2	2	1	5	6	8	7	81640	85363	88272				30	2Ac59 Ac cas Parheliion+u/a cont
31	65	6	19	09	18	14.5	13.0	91	9.4	999.5	6	011	25	8	2	6	8	4	6	/	83815	84650					31	2Ac58 2Ac62 Cu med Cu con top E jpE&SW

Mean vis = 37.9 km

Mean cloud = 6.6 82%

Mean wind speed = 7.3 kn

Mean gust = 15 kn

Mean TT = 14.3 °C

Mean TdTd = 9.1 °C

Mean RH = 71.7 %

Mean r = 7.3 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-Oct	02-Oct	03-Oct	04-Oct	05-Oct	06-Oct	07-Oct	08-Oct	09-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct
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
2025	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	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.51	0.52	0.00	0.01	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.98	1.00	0.88	0.41	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.01	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	9	0.00	0.00	0.00	0.65	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	10	0.00	0.00	0.00	0.88	0.69	1.00	0.38	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11	0.00	0.01	0.00	0.48	0.93	1.00	0.03	0.00	0.00	0.00	0.07	0.02	0.00	0.00	0.00	0.00
	12	0.11	0.00	0.00	0.06	0.68	1.00	0.24	0.00	0.00	0.00	0.26	0.07	0.00	0.00	0.00	0.00
	13	0.12	0.02	0.00	0.04	0.55	1.00	0.96	0.00	0.01	0.00	0.92	0.97	0.00	0.00	0.00	0.00
	14	0.32	0.00	0.00	0.00	0.56	1.00	0.43	0.26	0.76	0.00	1.00	1.00	0.00	0.00	0.00	0.00
	15	0.18	0.00	0.00	0.07	0.77	1.00	0.19	0.18	0.45	0.00	1.00	1.00	0.00	0.00	0.00	0.00
	16	1.00	0.00	0.00	0.13	0.37	1.00	0.00	0.29	0.32	0.00	0.98	1.00	0.00	0.00	0.00	0.00
	17	0.42	0.00	0.00	0.09	0.25	0.15	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21	0.00	0.00	0.00	0.00	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	2.15	0.02	0.00	4.89	8.32	10.04	2.66	0.74	4.96	0.00	4.23	4.08	0.00	0.00	0.00	0.00
Hour		17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	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	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
	7	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.92	0.52	0.65	0.70	0.05	0.00	0.34	0.00	0.26
	8	0.00	0.00	0.00	0.00	0.68	0.05	0.00	1.00	1.00	0.76	1.00	0.95	0.00	0.70	0.00	0.33
	9	0.12	0.00	0.00	0.00	0.68	0.62	0.00	1.00	0.14	1.00	1.00	1.00	0.00	0.68	0.00	0.32
	10	0.00	0.00	0.00	0.00	0.30	1.00	0.00	1.00	0.63	0.97	0.88	1.00	0.00	0.44	0.00	0.30
	11	0.00	0.00	0.00	0.04	0.02	0.92	0.00	0.94	0.16	0.16	0.11	1.00	0.00	0.13	0.00	0.19
	12	0.00	0.00	0.00	0.07	0.02	0.85	0.00	0.94	0.60	0.02	0.00	0.75	0.00	0.00	0.00	0.18
	13	0.00	0.00	0.00	0.19	0.10	0.48	0.77	0.48	0.63	0.00	0.00	0.49	0.00	0.05	0.06	0.25
	14	0.00	0.00	0.00	0.35	0.05	0.03	0.23	0.81	0.87	0.00	0.02	0.56	0.00	0.00	0.09	0.27
	15	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.00	0.98	0.00	0.14	0.05	0.00	0.05	0.00	0.23
	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.66	0.00	0.26	0.38	0.00	0.00	0.00	0.23
	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21	0.00	0.00	0.00	0.00	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	0.12	0.00	0.00	0.68	2.35	3.94	1.01	8.72	6.19	3.55	4.12	6.23	0.00	2.38	0.14	81.49

OCTOBER 2025	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	12.27	19.2	1421	6.9	259	86.5	98.5	307	59.5	1422	9.8	7.4	8.9	1202	6.0	259	1027.18	1028.3	959	1026.0	2350	0.0
2	14.42	18.8	1414	7.8	138	83.5	100.0	917	61.3	1552	11.4	8.3	10.2	939	6.4	138	1021.89	1026.4	30	1015.6	2309	0.8
3	16.19	17.9	1223	14.1	2358	93.7	99.5	925	78.0	254	15.1	10.7	12.2	2117	8.4	142	1006.74	1016.0	0	996.3	2249	10.1
4	12.66	15.3	1130	10.5	636	69.7	94.5	11	48.2	1120	7.1	6.4	9.5	1	5.0	1116	1002.52	1010.6	2359	997.1	215	0.4
5	12.70	17.1	1438	9.6	2357	67.3	81.0	2358	48.4	1131	6.6	6.0	6.7	955	5.5	1117	1017.27	1024.0	2243	1010.4	2	0.0
6	14.19	20.8	1426	8.5	223	79.5	94.3	358	57.6	1404	10.5	7.8	9.2	1408	5.9	18	1024.52	1025.3	2245	1023.6	450	0.0
7	13.58	18.3	1330	10.5	153	81.1	97.3	318	56.9	1353	10.2	7.6	8.2	508	7.0	1354	1024.45	1025.6	842	1023.3	1539	0.0
8	13.98	17.8	1451	9.1	2349	86.8	98.3	2359	72.3	1452	11.8	8.4	9.4	1045	6.9	2345	1024.14	1026.5	2202	1022.7	402	0.0
9	11.57	15.5	1428	6.3	601	85.1	99.5	658	67.1	1425	9.0	7.0	8.0	2359	5.8	604	1028.73	1031.8	2342	1026.2	2	0.0
10	13.93	15.8	1255	11.1	2359	81.2	91.4	314	71.4	1420	10.7	7.8	8.2	314	7.1	2026	1033.85	1035.1	2331	1031.5	2	0.0
11	11.10	15.2	1318	5.2	2357	86.0	99.7	2358	64.7	1251	8.7	6.8	8.0	804	5.3	2357	1034.62	1035.6	920	1033.5	1718	0.0
12	8.99	14.0	1426	3.9	257	92.5	100.0	306	71.3	1429	7.7	6.4	7.5	2358	4.9	257	1032.39	1034.3	5	1031.0	1732	0.0
13	13.23	15.5	1255	10.4	0	92.6	99.9	645	80.2	1328	12.0	8.5	9.1	853	7.5	0	1029.81	1031.2	0	1028.7	1623	0.4
14	11.78	13.3	0	10.4	2222	89.5	97.1	2022	84.2	2152	10.1	7.5	8.2	0	6.5	2200	1030.35	1031.4	2219	1029.2	235	0.0
15	11.19	12.9	1348	9.8	641	86.7	98.3	702	76.1	1920	9.0	7.0	7.6	1119	6.2	1909	1030.03	1031.1	6	1028.9	2359	0.3
16	12.19	15.2	1414	9.4	518	85.4	97.4	537	68.6	1450	9.7	7.3	8.1	1004	6.9	2	1027.75	1029.1	15	1026.5	1604	0.0
17	12.61	15.1	1251	10.3	624	81.2	98.0	703	63.9	1353	9.4	7.2	8.2	924	6.4	2213	1026.11	1026.9	8	1025.1	1605	0.0
18	12.18	14.9	1223	10.5	2151	74.2	84.5	2152	60.5	1320	7.7	6.4	7.6	1054	5.8	1626	1021.90	1026.1	38	1013.4	2345	0.3
19	13.43	15.4	1020	10.6	203	90.3	99.1	2100	78.0	1	11.8	8.7	10.7	2104	6.6	1	1002.96	1014.3	0	994.2	2101	7.4
20	12.98	14.9	1426	10.3	128	96.8	99.7	340	87.6	1428	12.5	9.2	10.1	1136	7.8	128	988.66	995.2	4	984.0	1601	10.4
21	12.21	15.6	1319	8.5	2354	89.5	98.7	306	73.1	1416	10.5	8.0	8.8	1011	6.8	2354	993.11	996.3	2359	990.0	1	0.4
22	10.82	16.8	1250	7.6	500	87.5	99.6	735	48.5	1300	8.5	7.0	8.2	939	5.7	1300	994.32	998.9	950	981.3	2359	7.8
23	8.76	13.0	1434	5.5	2353	87.2	99.3	9	63.5	1339	6.7	6.2	7.4	27	4.7	2353	988.96	1000.3	2359	977.1	355	5.8
24	8.40	12.8	1217	4.6	339	79.8	91.5	424	61.5	1220	5.0	5.5	6.4	2334	4.7	130	999.81	1001.5	829	997.2	2224	0.4
25	9.17	12.7	1108	6.9	2023	75.5	91.5	135	55.2	1613	5.0	5.5	6.6	1003	4.1	1619	1004.38	1008.5	2259	997.9	3	0.5
26	7.97	11.7	2313	3.7	541	80.4	95.1	2047	61.4	1054	4.7	5.4	7.5	2234	4.3	550	1009.15	1012.7	1053	1003.4	2359	0.8
27	11.54	13.8	1039	9.5	506	70.5	92.8	2323	54.3	1052	6.2	5.9	8.0	2344	5.2	1126	1007.39	1010.8	1827	1003.0	358	0.0
28	12.42	16.0	1239	10.5	1923	76.2	94.5	612	57.2	1425	8.2	6.8	7.9	615	5.9	1537	1007.26	1008.6	9	1005.2	2354	0.3
29	10.36	12.8	1239	5.8	2347	88.8	97.8	1948	76.8	423	8.6	7.0	8.4	1215	5.3	2353	1000.80	1005.5	22	997.8	1513	1.0
30	9.64	13.9	2256	4.8	702	83.6	98.6	833	60.5	1456	6.8	6.2	8.5	2359	5.2	429	1005.90	1009.0	851	1002.1	2316	0.4
31	14.33	15.7	1340	12.4	635	89.8	97.4	421	79.4	0	12.7	9.1	9.8	1905	8.4	108	1000.81	1002.7	16	997.5	2314	2.8
Total																						49.8
Mean	11.96	15.41		8.54		83.8	96.29		66.03		9.15	7.26	8.48		6.06		1014.44	1018.06		1010.31		
Max	16.19	20.80		14.12		96.8	100.00		87.56		15.15	10.75	12.23		8.41		1034.62	1035.62		1033.49		
Min	7.97	11.73		3.68		67.3	81.05		48.18		4.68	5.36	6.43		4.10		988.66	995.19		977.14		

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.