

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 2008

Temperature (°C / °F)			Anomaly	Rank in the past 127 years			
Mean maximum	15.0	59.0	+0.2	48 th highest			
Mean minimum	5.5	41.9	-1.2	43 rd lowest			
Daily mean	10.2	50.4	-0.6	54 th lowest			
Highest maximum	22.1	71.8	on 12 th	Lowest maximum	7.5	45.5	on 29 th
Highest minimum	12.4	54.3	on 15 th	Lowest minimum	-1.6	29.1	on 29 th
Mean grass minimum	2.4	36.3	-1.7	Lowest grass minimum	-6.5	20.3	on 29 th
Mean earth @30 cm	12.7	54.9	-0.1	Earth @100 cm	14.3	57.7	-0.4
Frost duration (hrs)	13.2			Rain duration (hrs)	48.6		
Rainfall total (mm / in)	51.0	2.01	76 %				
Highest daily fall	14.5	0.57	on 28 th				
Number of: Dry days (<0.2mm)	18	Wet days (>0.9mm)	9	days ≥5mm	4		
Sunshine total (hrs)	147.2	Daily mean	4.75	140 %	Sunniest day	9.7	on 10 th
N° days with: Air frost	4	Ground frost	14	Snow falling	2	Snow lying	1
Thunder	0	Hail ≥5mm	0	Small hail/ice	1	Fog @09	1
Air pressure MSL : Mean @09 GMT (mbar/in)	1015.2		0.0	29.98			
Absolute highest		1033.2		30.51		on 9 th	
Absolute lowest		993.5		29.34		on 5 th	

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

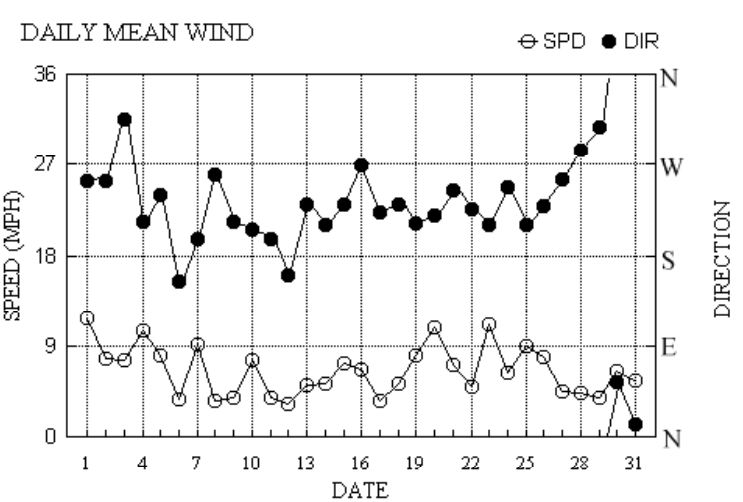
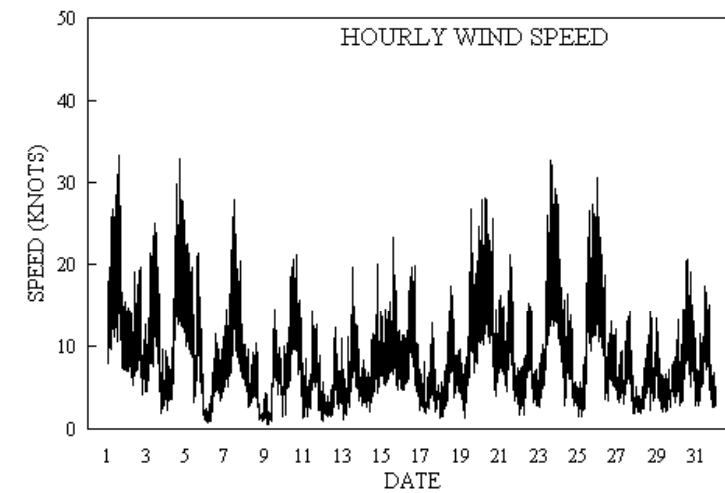
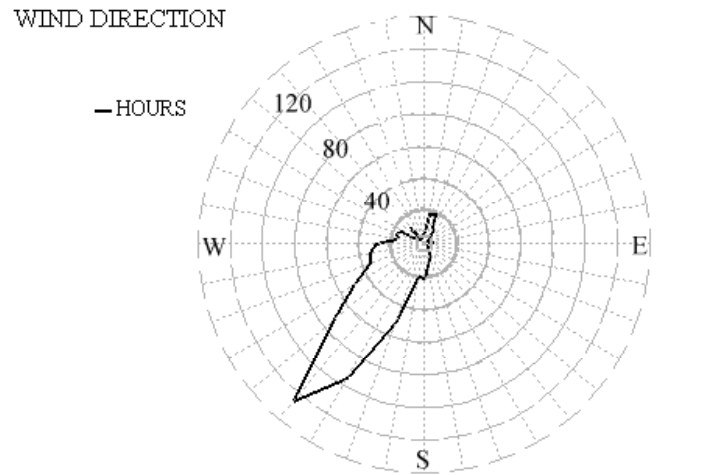
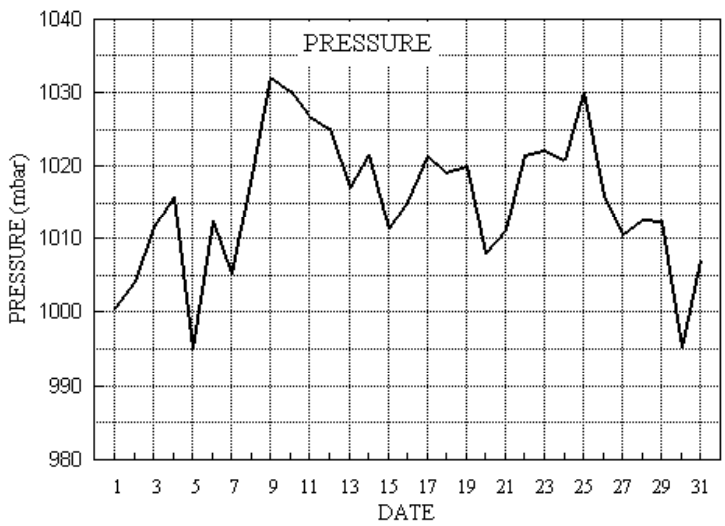
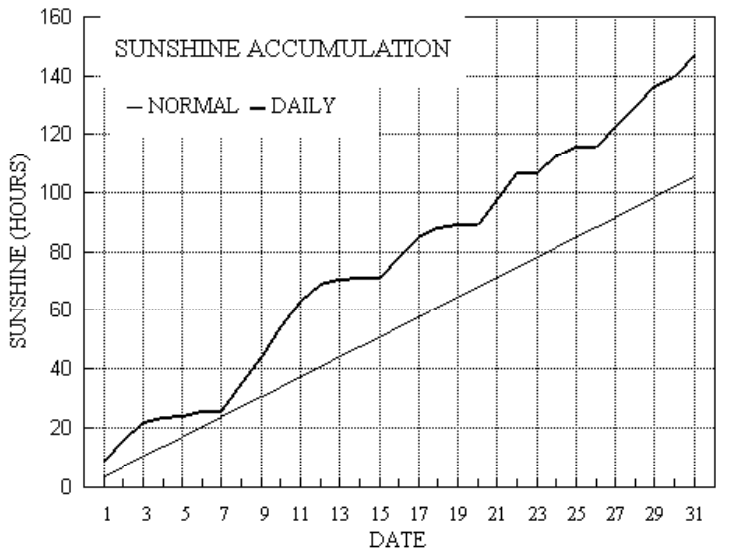
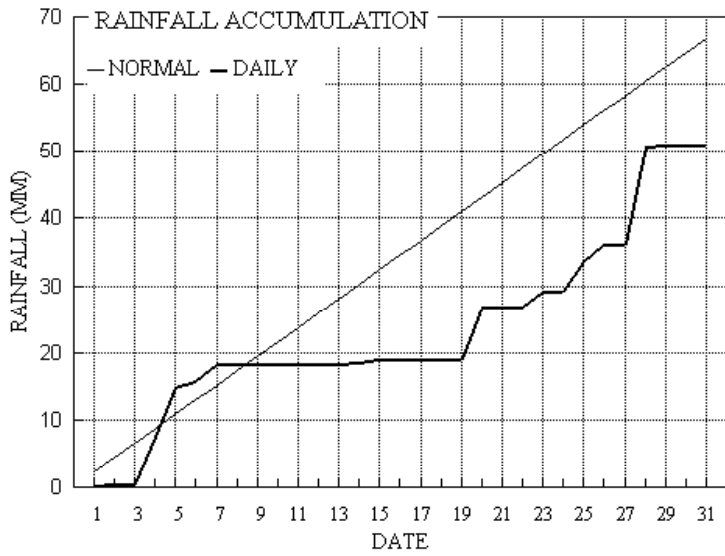
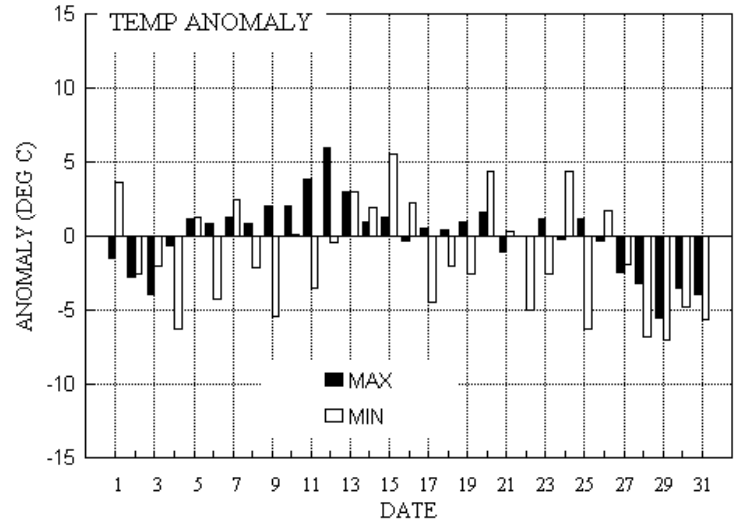
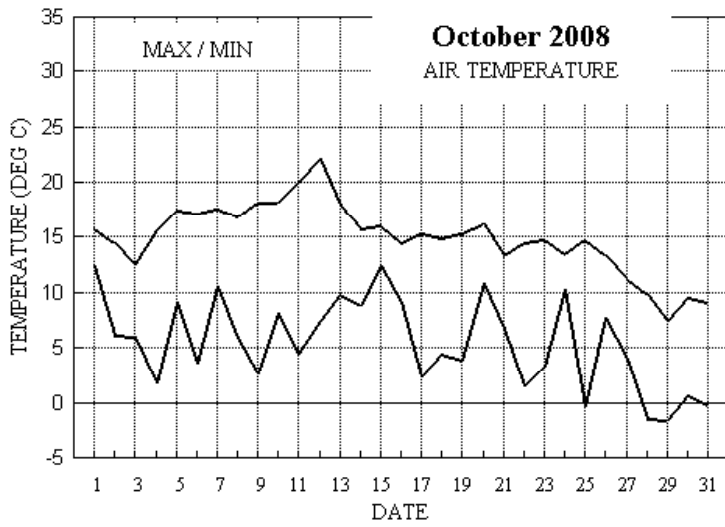
Notes: **Temperature and Rainfall Below Normal, Very Sunny. Snow for the first time since 1941.**

Temperature: A rather cool October overall, with a cold snap over the final 4 days. The mean temperature is 0.3° below the long-term median, and is lowest since 2003. The highest maximum is 1.9° above the median, but the lowest maximum is 1.8° below the median and is lowest since 1981. The highest minimum is 0.7° below the median and is lowest since 1994, while the lowest minimum is 0.6° below its median and is lowest since 2003. The mean grass min is also lowest since 2003, as are earth temperatures, but the lowest grass min is lowest since 1997. The number of days with ground frost is 7 more than average and most since 1992. Air frost duration is most since 2003. The first air frost of the season was on the 25th, giving a frost-free period of 192 days, which is close to average. **Rainfall:** October is, on average, the wettest month of the year, however this year October is the driest month since February. The total for the month is 11.5 mm below the long-term median. The number of dry days is 2 more than average, and there was a dry spell of 6 days ending on the 13th. Rain on the 28th turned to snow during the evening, giving the first October snowfall since 1941. Although much melted as it fell, there was 1 cm of lying snow at 09 GMT on the 29th, the first such occurrence for October in this area since before 1912. Small hail also fell during a heavy shower on the 28th. The highest rainfall rate recorded this month was 28 mm/hr on the 5th. **Sunshine:** This has been a very sunny October overall, and the daily mean of 4.75 hours is most since 2003. 17 days had more than 50 % of the maximum, and the period 8th to the 12th was especially sunny, giving 43.7 hours, a mean of 8.7 hours per day. Overall there were 12 days with <3 hours, 16 with =>6 hours and 5 with =>9 hours. **Wind:** The overall mean wind speed of 6.6 mph is slightly above average. The 1st was the windiest day, mean 11.7 mph, and the month's highest gust of 39 mph was also on that day. The 12th was the least windy day, mean 3.2 mph, and there were 654 minutes (10.9 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,1 NE,1 E,0 SE,1 S,3 SW,16 W,7 NW,2. **Humidity:** The overall mean relative humidity was 80.7 %, and the lowest value recorded was 35 % on the 1st. The mean water vapour content per kg of air was 6.6 g at 0900 GMT and 6.1 g at 1500 GMT. **Commentary: From the 1st to the 7th:** temperatures were generally near of below normal, with anomalies for the daily max ranging from -3.9° on the 3rd to +1.2° on the 7th, and an anomaly of -6.2° for the min on the 4th. Fairly dry at first, but wet from the 4th to the 7th. Sunny until the 3rd, then dull. Winds were moderate or fresh W'ly, becoming light S'ly on 6th, increasing fresh on 7th. **From the 8th to the 15th:** Temperatures were mostly near or above normal, with an anomaly of +6.0° for the max on the 12th, but there were individual cold nights, with an anomaly of -5.4° for the min on the 9th. Mainly dry and quite sunny until the 12th, then dull. Light or moderate winds were mainly SW'ly. **From the 16th to the 26th:** daytime temperatures were close to normal, although night time values showed greater variability, with anomalies ranging from -6.2° for the min on the 25th to +4.4° on the 20th and 24th. Dry until the 19th, then rain on some days, the wettest day being the 20th. A mixture of sunny days and dull ones, 5 of each. Winds were SW'ly, light or moderate to the 18th, then moderate or fresh, temporarily light on the 22nd. **From the 27th to the 31st:** temperatures were well below normal, with anomalies of -5.5° for the max on the 29th, and -7.0° for the min on the same day. Apart from the 28th, when 14.5 mm of precipitation fell, mainly a snow, the other days were mostly dry. Quite sunny except on the 30th. Winds were light or mod SW'ly, veering NE'ly by the 29th.

Table of mean anomalies for the periods specified, (max, min, rain, sun)

From the 1 st to the 10 th				From the 11 th to the 20 th				From the 21 st to the 31 st			
-0.1°	-1.5°	83 %	161 %	+1.8°	+0.4°	42 %	104 %	-1.6°	-3.0°	102 %	158 %

Wokingham Climatological Graphs for October 2008



Month: October 2008

Date	Max C	Min C	Rain mm	Grass Min	30cm C	100cm C	Sun hrs	Frost hrs	pp09 mbar	Af Gf	Sf SI	Th Ha	Ic Fg	Vec mean ddd ff sp	Max gust ddd gg HHhh	High hr ddd ff HH	Rain hrs	
1	15.8	12.4	0.3	9.7	14.9	15.6	8.7	0.0	1000.5	0 0 0 0	0 0 0 0	0 0 0 0	254	9.9 10.2	262 34 1328	261 14 13	0.2	
2	14.5	6.2	0.1	2.6	14.4	15.6	6.9	0.0	1004.1	0 0 0 0	0 0 0 0	0 0 0 0	253	6.0 6.7	299 20 1606	262 9 15	0.2	
3	12.5	6.0	0.0	0.3	13.9	15.5	6.4	0.0	1011.6	0 0 0 0	0 0 0 0	0 0 0 0	315	5.6 6.6	343 25 0957	313 11 09	0.0	
4	15.7	1.8	7.0	-1.8	13.2	15.3	1.7	0.0	1015.8	0 1 0 0	0 0 0 0	0 0 0 0	213	9.0 9.1	217 33 1532	217 15 15	10.4	
5	17.5	9.2	7.4	11.5	13.5	15.1	0.3	0.0	995.1	0 0 0 0	0 0 0 0	0 0 0 0	239	2.0 6.9	225 23 0223	222 11 02	3.9	
6	17.2	3.7	1.0	-1.0	13.7	15.0	1.6	0.0	1012.5	0 1 0 0	0 0 0 0	0 0 0 0	155	2.7 3.2	159 12 1227	145 6 22	2.9	
7	17.6	10.5	2.6	11.5	13.9	14.9	0.2	0.0	1005.1	0 0 0 0	0 0 0 0	0 0 0 0	196	7.1 7.9	193 28 1125	191 13 11	2.4	
8	16.9	5.9	0.0	0.0	14.0	14.9	9.7	0.0	1018.7	0 0 0 0	0 0 0 0	0 0 0 0	260	2.1 3.1	350 11 1459	229 5 03	0.0	
9	18.2	2.6	0.0	-0.5	13.4	14.8	9.1	0.0	1032.2	0 1 0 0	0 0 0 0	0 0 0 0	214	3.0 3.3	252 15 1321	236 7 13	0.0	
10	18.2	8.1	0.0	4.2	13.3	14.7	9.7	0.0	1030.1	0 0 0 0	0 0 0 0	0 0 0 0	206	6.5 6.6	213 21 1400	214 10 09	0.0	
11	20.0	4.5	tr	0.3	13.2	14.6	9.1	0.0	1026.7	0 0 0 0	0 0 0 0	0 0 0 0	197	3.0 3.4	206 15 1004	216 7 10	0.0	
12	22.1	7.5	tr	4.1	13.3	14.5	6.1	0.0	1025.1	0 0 0 0	0 0 0 1	0 0 0 1	161	1.5 2.8	170 12 1533	171 6 23	0.0	
13	17.9	9.8	tr	7.5	13.6	14.5	1.2	0.0	1017.1	0 0 0 0	0 0 0 0	0 0 0 0	230	4.0 4.4	267 20 1235	260 9 12	0.0	
14	15.8	8.8	0.2	4.7	13.5	14.4	0.5	0.0	1021.4	0 0 0 0	0 0 0 0	0 0 0 0	211	4.5 4.5	225 20 1707	221 7 17	0.7	
15	16.1	12.4	0.4	11.4	13.7	14.4	0.2	0.0	1011.4	0 0 0 0	0 0 0 0	0 0 0 0	231	5.6 6.3	270 24 1306	280 8 13	0.5	
16	14.5	9.1	tr	6.5	13.7	14.4	6.9	0.0	1015.2	0 0 0 0	0 0 0 0	0 0 0 0	269	5.3 5.8	272 20 1541	288 9 10	0.0	
17	15.4	2.3	0.0	-1.5	13.0	14.4	7.1	0.0	1021.6	0 1 0 0	0 0 0 0	0 0 0 0	223	2.9 3.1	213 13 1321	222 6 13	0.0	
18	14.9	4.5	tr	-0.4	12.6	14.3	3.2	0.0	1019.1	0 1 0 0	0 0 0 0	0 0 0 0	230	4.3 4.6	266 18 1121	258 8 11	0.0	
19	15.4	3.9	0.0	-0.4	12.4	14.2	0.7	0.0	1020.0	0 1 0 0	0 0 0 0	0 0 0 0	212	6.9 7.0	222 27 1358	213 12 22	0.0	
20	16.2	10.9	7.9	10.7	12.6	14.0	0.0	0.0	1007.9	0 0 0 0	0 0 0 0	0 0 0 0	219	9.2 9.4	220 28 0537	211 13 08	6.4	
21	13.4	6.8	0.0	2.0	12.7	13.9	8.6	0.0	1011.1	0 0 0 0	0 0 0 0	0 0 0 0	244	5.9 6.1	268 21 1219	265 9 12	0.0	
22	14.5	1.5	0.0	-2.9	12.0	13.9	9.1	0.0	1021.6	0 1 0 0	0 0 0 0	0 0 0 0	226	4.0 4.3	240 15 1020	253 7 13	0.0	
23	14.8	3.3	2.3	-1.5	11.4	13.7	0.1	0.0	1022.2	0 1 0 0	0 0 0 0	0 0 0 0	211	9.6 9.7	214 33 1446	218 15 15	2.3	
24	13.5	10.3	0.0	10.1	11.9	13.6	5.7	0.0	1020.9	0 0 0 0	0 0 0 0	0 0 0 0	248	4.3 5.5	203 21 0056	211 10 01	0.0	
25	14.8	-0.3	4.3	-3.9	11.6	13.4	2.9	0.6	1029.9	1 1 0 0	0 0 0 0	0 0 0 0	210	7.6 7.7	219 31 2349	212 13 23	5.1	
26	13.4	7.7	2.7	12.0	11.8	13.4	0.0	0.0	1016.1	0 0 0 0	0 0 0 0	0 0 0 0	229	6.6 6.9	221 26 0014	218 12 00	2.9	
27	11.2	4.0	0.0	-0.6	11.8	13.3	6.9	0.0	1010.5	0 1 0 0	0 0 0 0	0 0 0 0	255	3.5 3.9	301 14 1509	277 7 13	0.0	
28	9.8	-1.4	14.5	-5.6	10.9	13.2	7.1	7.2	1012.6	1 1 1 0	0 0 1 0	0 0 1 0	285	2.2 3.7	303 14 1629	3 7 23	9.5	
29	7.5	-1.6	0.3	-6.5	10.1	13.0	6.9	4.2	1012.3	1 1 1 1	0 0 0 0	0 0 0 0	307	0.1 3.3	8 12 0001	1 6 00	1.0	
30	9.5	0.6	tr	-2.4	9.5	12.8	3.1	0.0	995.3	0 1 0 0	0 0 0 0	0 0 0 0	54	5.3 5.7	68 21 1343	71 8 11	0.2	
31	9.1	-0.2	0.0	-4.6	9.2	12.5	7.5	1.2	1007.2	1 1 0 0	0 0 0 0	0 0 0 0	13	4.8 4.9	20 18 1039	15 8 10	0.0	
Total			51.0				147.2	13.2						229	3.8 5.7			48.6
Mean	15.0	5.5		2.4	12.7	14.3	4.75	0.4	1015.2									
Anom	+0.2	-1.2	76%		-0.1	-0.4	140%											-0.0
Daily mean		10.2																
Anom		-0.6																

Number of days with:

Air frost = 4 Ground frost = 14 Nil sun = 2
Snow falling = 2 Snow lying = 1 Thunder = 0
Hail=>5mm = 0 Hail<5mm or ice = 1 Fog at 09GMT = 1

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.

Anom = Departure from 1971-2000 climatological average.

All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for October 2008

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	hNChs	Date	Remarks	
1	82	2	26	12	26	13.3	5.5	59	5.7	1000.5	3	024	02	8	1	1	8	5	0	9	81828			1	1Sc35 1Cc72 1Ci75 Cu fra/hum	
2	86	2	27	07	19	10.2	5.1	70	5.5	1004.1	1	013	03	1	1	1	8	5	3	2	81820			2	1Sc50 1Ac58 2Ci75 Cu fra/hum	
3	84	1	32	12	24	9.4	1.7	58	4.3	1011.6	1	028	01	1	1	1	8	5	0	1	81828			3	1Sc45 1Ci75 Cu fra	
4	82	7	19	07	12	9.2	4.0	70	5.0	1015.8	8	021	02	2	2	2	5	7	7	1	82650	86368		4	1Ac58 /Ci78 COTRA	
5	35	8	20	09	20	15.5	14.1	92	10.1	995.1	6	014	63	6	6	6	7	5	3	2	83708	87612	88520	5		
6	60	4	16	30	05	10.5	8.6	88	7.0	1012.5	2	011	05	1	1	1	4	6	4	0	2	84710			6	1Sc40 1Ci75 COTRA
7	75	8	19	10	21	16.9	14.1	84	10.1	1005.1	6	010	02	6	2	7	5	4	7	2	83712	87618	87365	7	/Ci75 COTRA	
8	75	1	27	03	07	11.3	8.7	83	7.0	1018.7	2	028	02	0	0	0	0	9	0	1	81078			8	COTRA	
9	30	2	33	01	02	8.3	7.5	95	6.4	1032.2	2	021	40	4	0	0	0	9	0	1	82080			9	jjNW vv 10k exNW	
10	68	7	22	10	19	15.2	10.8	75	7.9	1030.1	8	002	02	2	2	1	1	4	3	1	81815	87078		10	1Ac64 1Cc72 COTRA Cu fra	
11	30	4	20	02	05	12.9	11.9	93	8.5	1026.7	1	006	10	4	1	2	6	2	0	1	82704	83080		11	COTRA	
12	02	9	02	02	04	9.8	9.8	100	7.6	1025.1	3	002	45	4	4	9	/	/	/	/	/	/	/	/	12	
13	14	8	24	04	08	14.8	14.0	95	9.8	1017.1	2	010	50	5	2	8	6	1	/	/	83702	85703	88705	13		
14	60	7	23	02	06	12.4	11.2	92	8.1	1021.4	1	005	05	2	2	7	5	4	3	1	81710	87635		14	/Ac63 /Ci75	
15	82	8	22	08	14	15.8	14.0	89	9.9	1011.4	6	010	02	6	5	7	8	3	7	/	82708	84812	85625	15	3Ac58 8As68	
16	82	2	28	07	13	11.1	6.1	71	5.7	1015.2	2	017	01	1	1	1	5	7	7	8	81650			16	1Ac65 1As68 2Cs72	
17	80	4	23	02	05	8.4	5.6	83	5.5	1021.6	1	007	02	1	1	1	0	9	4	1	81365	84080		17	COTRA	
18	65	3	24	05	11	10.5	7.8	83	6.5	1019.1	0	002	01	1	1	2	5	7	0	1	82656			18	2Ci80 COTRA	
19	62	8	21	06	11	10.9	9.2	89	7.1	1020.0	1	004	21	6	1	8	5	5	/	/	81625	86635	88645	19	vv 25km exE	
20	65	8	21	14	27	14.2	10.9	81	8.2	1007.9	6	003	03	2	2	8	5	4	/	/	81712	83615	87622	20	8Sc35	
21	84	3	25	08	13	8.9	5.1	77	5.3	1011.1	2	027	01	1	1	0	0	9	0	8	81275	83078		21	Cs edge SE Parhelion frnt	
22	82	1	24	07	12	8.1	4.1	76	5.0	1021.6	2	009	02	0	0	1	5	6	0	0	81635			22	1Sc50	
23	81	7	21	09	18	12.6	8.1	74	6.7	1022.2	6	008	03	2	2	4	8	4	7	2	81818	84646	85362	23	6Ac65 /Ci75 Cu fra	
24	78	7	29	05	09	11.1	8.5	84	6.9	1020.9	2	040	01	6	2	7	5	6	/	2	83640	87645		24	/Ci75 Sc edge NW	
25	65	7	18	04	09	7.8	6.0	89	5.7	1029.9	8	007	03	2	2	1	5	6	3	8	81635	87273		25	1Ac65 Halo 22° part. Parhelia.	
26	50	8	28	05	19	12.9	11.7	92	8.5	1016.1	3	010	58	6	5	7	7	2	/	/	83705	85712	88530	26	3Sc020 CF 0802	
27	72	1	25	05	10	7.2	4.4	82	5.1	1010.5	4	000	02	0	0	1	0	9	3	1	81358			27	1Ci70	
28	84	1	25	03	07	3.5	1.8	89	4.4	1012.6	1	003	02	0	0	1	0	9	7	0	81360			28	1Ac65 Hoar slt	
29	68	0	24	02	06	0.8	-1.8	83	3.4	1012.3	8	002	02	0	0	0	0	9	0	0				29	Sn ly 1cm 80%	
30	40	8	07	06	14	4.5	3.4	92	4.9	995.3	3	015	61	6	2	7	7	2	/	/	82705	86708	88550	30	4Sc20 Tr sn lyng, <1cm	
31	61	3	01	07	11	4.1	1.0	80	4.1	1007.2	2	018	02	0	0	1	5	7	0	1	81650	83080		31	COTRA Hoar slt	

Mean vis = 23.2 km

Mean cloud = 4.8 60%

Mean wind speed = 6.9 kn

Mean gust = 12 kn

Mean TT = 10.4 °C

Mean Td = 7.5 °C

Mean RH = 82.8 %

Mean r = 6.6 g/kg

Mean PPP = 1015.2 mbar

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

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

ff = 10 minute mean wind speed, knots

gg = Highest gust in past hour, knots

TT = Air temperature at 1.2 m, deg Celsius

Td = Dew point temperature at 1.2 m, deg Celsius

RH = Relative humidity at 1.2 m

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

PPP = Air pressure reduced to sea level, mbar

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

ppp = 3 hr pressure tendency, tenths of mbar

ww = Present weather code (Code FM12-4677)

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

covers past 3 hours.

Nh = Amount of low cloud present, oktas

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

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

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

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

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs = Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation

trails present.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for October 2008

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	NCh	Sh	NCh	Sh	Date	Remarks
1	86	2	27	13	31	15.0	0.8	38	4.1	1002.0	3	003	02	8	1	2	2	7	0	.	82850				1	Cu med
2	84	3	26	10	19	14.3	1.3	41	4.2	1004.3	7	003	03	0	0	2	8	6	0	3	82845				2	1Sc56 1Ci70 2Ci75 Cu med/con Cb top NW
3	86	6	35	07	16	10.9	1.6	52	4.3	1015.3	2	020	01	1	1	6	8	6	3	/	82840	85650		3	2Ac58 Cu med	
4	80	8	21	13	25	13.4	8.2	71	6.8	1008.7	7	036	60	6	2	8	5	5	/	/	86622	88630		4	Pptn v slt	
5	82	8	36	09	21	11.1	9.2	88	7.2	999.0	2	057	02	6	2	8	5	4	/	/	86710	88615		5		
6	72	7	14	05	09	14.5	11.1	80	8.2	1011.9	8	009	02	2	2	7	5	4	/	/	82712	85618	87645	6	Absent vv&cld est	
7	65	7	20	10	19	16.8	14.7	87	10.4	1002.8	7	006	21	6	2	7	8	4	/	2	82710	84812	85635	7	/Ci75 Cu med	
8	84	2	34	05	10	16.1	5.9	51	5.8	1021.3	2	012	02	0	0	2	4	6	0	1	82840			8	1Sc50 1Ci78 Cu hum	
9	82	4	23	07	12	16.7	8.4	58	6.7	1031.1	8	008	02	0	0	2	1	6	0	1	82835	83078		9	1Ci75 Cu hum	
10	82	7	21	11	21	17.4	8.1	54	6.5	1027.6	7	015	02	2	2	1	0	9	4	1	81365	87075		10	COTRA Parhelia cz arc u/a cont	
11	70	1	21	06	09	19.1	9.4	53	7.2	1024.9	6	012	02	0	0	1	4	6	0	1	81640			11	1Ci80 COTRA	
12	67	1	18	05	10	21.6	13.7	61	9.6	1021.4	8	024	02	0	0	0	0	9	0	1	81080			12		
13	80	8	26	06	15	15.3	11.1	76	8.1	1017.9	3	007	02	2	2	8	8	4	/	/	84818	88625		13	Cu hum	
14	70	7	22	06	11	15.3	11.7	79	8.5	1018.6	7	019	21	6	2	7	8	4	7	/	83818	86635		14	/Ac63 Cu med	
15	84	7	28	07	15	14.9	9.5	70	7.3	1011.8	3	010	01	6	5	2	8	5	7	8	82822	85363	87272	15	1Sc40 Cu med. Parhelia c/z arc	
16	82	5	28	09	18	13.2	3.9	53	5.0	1016.4	2	007	14	1	1	3	8	6	0	1	81840	83656		16	3Ci77 COTRA Cu med Sc vir W	
17	88	6	25	04	11	13.5	4.3	54	5.2	1020.1	7	011	03	1	1	3	8	6	0	6	81836	83650		17	4Cs75 COTRA Cu hum Parhelia Halo 22° part U/a cont	
18	86	7	25	06	16	13.6	6.7	63	6.0	1018.1	6	008	02	2	2	7	8	5	0	1	82828	86645		18	/Ci75 Cu med	
19	84	6	21	13	22	14.0	6.0	58	5.8	1016.4	7	021	03	2	2	2	4	6	1	6	81835	85272		19	2Sc40 2As69 /Ci80 COTRA Cu hum	
20	35	8	27	07	26	12.8	11.1	89	8.2	1005.0	5	006	64	6	2	7	8	2	2	/	82705	83810	87625	20	8Ns35 Cu med	
21	84	1	27	07	17	12.4	-0.3	42	3.7	1013.6	2	010	02	0	0	1	8	6	0	3	81848			21	1Sc50 1Ci80 1Ci75 Cu med/conSW Cb top SW	
22	84	2	26	06	15	12.2	4.2	58	5.0	1023.1	2	007	02	0	0	2	8	6	0	1	82835			22	1Sc45 1Ci78 Cu med	
23	80	7	22	16	32	14.1	7.6	65	6.4	1018.2	6	020	25	8	2	6	8	5	7	1	82825	85640	87365	23	2Ac60 /Ci75 Cu hum/med	
24	82	2	31	06	14	12.7	2.1	49	4.1	1024.4	3	016	01	1	1	1	1	6	0	1	81840			24	2Ci78	
25	75	8	21	08	20	13.8	9.1	73	7.1	1024.8	7	030	60	6	2	3	5	5	7	/	82620	86362	88468	25	2Sc30 Absent vv, cld and wx est	
26	82	7	24	06	12	12.4	10.7	89	8.0	1014.7	7	009	01	6	2	3	8	4	2	/	81710	83625	87460	26	1Cu15 1Sc40 Cu med NW As edge NW	
27	75	3	27	05	13	9.9	0.5	52	4.0	1009.3	6	008	15	1	1	1	9	5	6	3	81928			27	1Cu33 1Ac67 2Ci68 2Ci72 jpNW vv 50k exNW	
28	70	7	26	04	10	8.7	0.5	56	3.8	1008.7	7	023	15	1	1	3	9	5	6	3	82925	83068	85072	28	1Cu30 1Sc50 1Ac65 jpNW vv 50k exNW	
29	82	6	19	04	07	5.4	1.1	74	4.1	1006.1	7	038	03	1	1	1	1	5	1	6	81820	84465	86275	29	COTRA Cu hum Sn ly 10%<1cm	
30	80	7	05	06	16	7.1	1.3	66	4.2	997.7	2	010	02	2	2	2	8	5	0	2	81825	86075		30	2Sc50 1Ci70 COTRA Cu med Ci flo vir	
31	83	5	02	07	14	8.0	1.3	63	4.2	1008.1	3	002	02	1	1	5	8	5	0	0	85827			31	1Sc45 Cu med	

Mean vis = 37.5 km

Mean cloud = 5.3 67%

Mean wind speed = 7.5 kn

Mean gust = 16 kn

Mean TT = 13.4 °C

Mean Td = 6.3 °C

Mean RH = 63.3 %

Mean r = 6.1 g/kg

Mean PPP = 1014.3 mbar

VV = Visibility code (Code FM12-4377)

N = Total cloud amount, oktas

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

ff = 10 minute mean wind speed, knots

gg = Highest gust in past hour, knots

TT = Air temperature at 1.2 m, deg Celsius

Td = Dew point temperature at 1.2 m, deg Celsius

RH = Relative humidity at 1.2 m

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

PPP = Air pressure reduced to sea level, mbar

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

ppp = 3 hr pressure tendency, tenths of mbar

ww = Present weather code (Code FM12-4677)

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

covers past 3 hours.

Nh = Amount of low cloud present, oktas

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

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

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

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

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs = Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation

trails present.

October 2008	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	12.39	16.0	1329	7.1	2353	66.22	89.6	321	34.9	1416	5.86	5.95	8.6	245	3.7	1416	1001.24	1003.7	2021	997.6	523	0.9
2	8.99	14.5	1500	6.0	2310	69.74	87.6	332	37.7	1443	3.36	4.88	5.7	848	3.8	1520	1004.03	1005.2	1841	1002.4	357	0.0
3	8.26	12.6	1340	3.4	2129	67.44	89.9	129	42.5	1222	2.25	4.49	5.8	146	3.7	1201	1012.99	1019.9	2159	1004.1	32	0.2
4	9.55	14.3	1235	1.6	312	80.60	92.2	325	56.3	1120	6.22	6.14	9.4	2359	3.8	311	1011.47	1019.6	0	1000.2	2359	1.5
5	12.40	17.5	1250	4.4	2258	88.80	94.7	2356	73.6	1843	10.61	8.28	11.7	1250	4.9	2258	999.98	1009.7	2359	993.5	1102	10.7
6	10.73	14.9	1527	3.6	446	88.20	95.5	606	73.7	1215	8.82	7.17	9.0	1742	4.6	446	1011.67	1013.1	1003	1009.6	0	0.2
7	14.67	17.4	927	9.6	2346	86.70	94.7	544	69.3	1836	12.47	9.12	11.0	1436	6.6	2308	1006.12	1011.3	2348	1002.5	1452	3.1
8	10.17	16.8	1437	4.7	2325	80.70	95.7	727	44.9	1420	6.58	6.01	7.4	952	4.9	2326	1020.07	1028.0	2325	1011.1	0	0.1
9	9.90	17.7	1319	2.7	606	81.80	96.3	802	51.1	1407	6.57	6.01	7.9	950	4.3	510	1031.13	1033.2	2235	1027.8	0	0.1
10	12.88	18.1	1409	6.6	2348	78.20	95.0	320	53.1	1424	8.90	6.97	8.3	830	5.6	2348	1029.20	1032.1	1	1027.4	1626	0.0
11	11.57	19.4	1419	4.2	508	83.50	96.2	758	49.4	1342	8.48	6.86	8.8	943	4.8	508	1026.12	1027.6	12	1024.7	1424	0.0
12	12.89	21.8	1435	7.2	526	89.10	97.1	1006	57.1	1453	10.96	8.16	12.2	1312	6.0	516	1023.03	1026.3	0	1018.5	2359	0.1
13	13.25	17.8	1228	9.1	2258	87.10	96.2	729	66.0	1228	11.08	8.18	10.8	1026	6.6	2258	1018.10	1021.3	2358	1015.9	551	0.1
14	12.61	15.7	1451	8.6	557	88.00	95.9	609	75.0	1151	10.64	7.91	8.8	1430	6.5	521	1019.43	1021.6	854	1015.7	2359	0.1
15	13.45	16.0	928	9.5	2231	84.90	93.3	642	60.3	1612	10.92	8.19	10.1	1247	5.7	1612	1012.84	1015.8	0	1010.3	1253	0.6
16	10.20	14.6	1230	3.5	2351	72.30	93.1	2355	45.2	1233	5.10	5.49	7.0	108	4.4	1254	1016.06	1020.7	2359	1012.8	147	0.1
17	8.08	14.9	1254	2.1	556	80.30	94.9	647	48.5	1256	4.60	5.24	6.4	1020	4.1	556	1020.72	1021.9	1009	1019.8	2354	0.1
18	9.75	14.8	1346	4.5	416	80.60	95.5	537	53.8	1347	6.37	5.92	7.0	1013	4.9	416	1019.17	1020.5	2107	1017.8	1320	0.0
19	11.21	15.4	1417	3.7	518	79.10	95.9	543	53.8	1405	7.50	6.45	7.8	2003	4.7	518	1017.55	1020.2	825	1012.4	2359	0.1
20	12.70	16.2	1306	8.5	2100	82.40	93.6	1833	71.7	145	9.71	7.54	9.2	1443	6.3	2035	1007.17	1012.7	0	1004.3	1356	7.0
21	9.05	13.5	1324	3.0	2335	70.90	92.1	2345	39.5	1446	3.67	5.00	6.7	149	3.6	1447	1012.17	1018.2	2343	1006.1	38	0.0
22	6.99	14.1	1246	1.4	323	79.30	95.0	355	50.7	1341	3.36	4.79	5.9	1113	3.9	323	1022.28	1026.3	2230	1018.1	3	0.2
23	11.65	14.8	1139	3.2	13	76.50	95.1	55	61.6	1708	7.54	6.43	7.7	2348	4.4	13	1020.48	1026.1	3	1016.3	2335	0.2
24	10.17	13.3	1406	2.3	2357	77.90	93.8	2339	43.0	1424	6.15	5.98	8.7	558	4.0	1424	1022.82	1031.3	2359	1015.8	327	1.9
25	8.94	14.2	1555	-0.4	612	80.80	96.3	620	55.5	1154	5.60	5.73	8.2	2357	3.5	615	1026.83	1031.6	54	1019.5	2324	0.1
26	12.07	14.8	802	7.1	2356	90.00	93.6	808	83.2	1759	10.49	7.93	9.7	802	5.7	2355	1015.43	1019.9	9	1012.9	2359	5.8
27	6.24	10.9	1323	-0.0	2354	79.50	94.8	2358	50.7	1316	2.69	4.65	6.1	114	3.6	2352	1010.89	1013.0	0	1009.1	1352	0.2
28	2.78	9.5	1303	-1.5	650	85.00	96.3	704	49.5	1431	0.24	3.88	4.9	1022	3.3	650	1011.23	1012.9	2359	1008.1	1544	7.9
29	2.26	6.9	1325	-1.7	728	81.20	94.6	0	57.7	1326	-0.74	3.62	4.2	1730	3.0	656	1007.66	1013.0	20	996.6	2359	4.5
30	4.04	9.2	1350	0.4	541	81.20	94.0	559	52.0	1351	0.99	4.15	5.4	956	3.2	8	997.58	1003.9	2358	993.7	632	0.0
31	3.49	9.0	1440	-0.7	2357	82.70	95.6	2347	56.2	1419	0.64	4.00	4.7	1220	3.4	2357	1007.62	1010.4	2229	1003.8	6	0.2
Total																						46.0
Mean	9.79	14.72		3.99		80.67	94.33		55.40		6.37	6.16	7.90		4.57		1014.94	1019.06		1010.60		
Max	14.67	21.80		9.61		90.00	97.10		83.20		12.47	9.12	12.23		6.62		1031.13	1033.18		1027.85		
Min	2.26	6.91		-1.65		66.22	87.60		34.90		-0.74	3.62	4.23		2.98		997.58	1003.74		993.55		

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

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

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