

WOKINGHAM

METEOROLOGICAL

DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

Lat/Long 51°25'N 00°51'W NGR (SU)800699 Altitude 44m ASL.

Monthly Means and Totals

OCTOBER 2006

Temperature (°C / °F)			Anomaly	Rank in past 125 years			
Mean maximum	17.6	63.7	+2.8	4 th highest			
Mean minimum	10.5	50.9	+3.8	2 nd highest			
Daily mean	14.1	57.4	+3.3	* Highest *			
Highest maximum	21.4	70.5	on 9 th	Lowest maximum	13.9	57.0	on 31 st
Highest minimum	14.8	58.6	on 19 th	Lowest minimum	4.7	40.5	on 27 th
Mean grass minimum	7.2	45.0		Lowest grass minimum	0.0	32.0	on 27 th
Mean earth @30 cm	14.8	58.6	+2.0	Earth @100 cm	15.7	60.3	+1.3
Frost duration (hrs)	0.0			Rain duration (hrs)	44.1		
Rainfall total (mm / in)	111.0	4.37	166 %	17 th highest			
Highest daily fall	24.9	0.98	on 11 th				
Number of: Dry days (<0.2mm)	13	Wet days (>0.9mm)	13	days ≥5mm	7		
Sunshine total (hrs)	113.8	Daily mean	3.67	108 %	Sunniest day	9.7	on 12 th
N° days with: Air frost	0	Ground frost	0	Snow falling	0	Snow lying	0
Thunder	2	Hail ≥5mm	0	Small hail/ice	0	Fog @09	1 Nil sun 3
Air pressure MSL : Mean @09 GMT (mbar/in)		1010.3	-4.9	29.83			
Absolute highest		1031.6		30.46		on 13 th	
Absolute lowest		983.1		29.03		on 24 th	

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

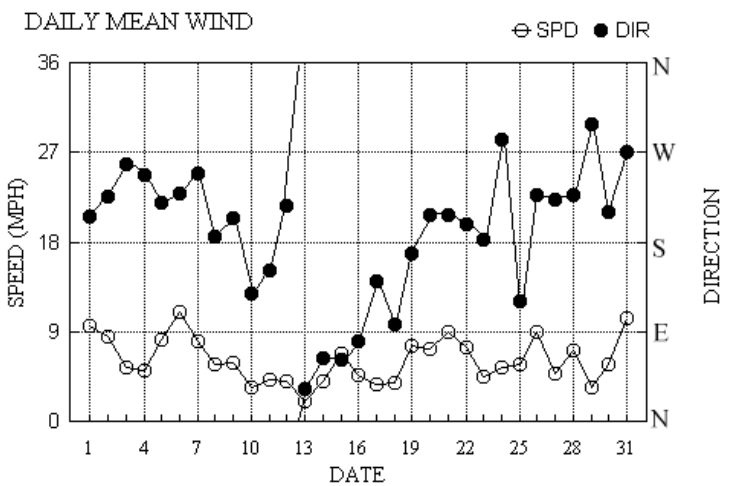
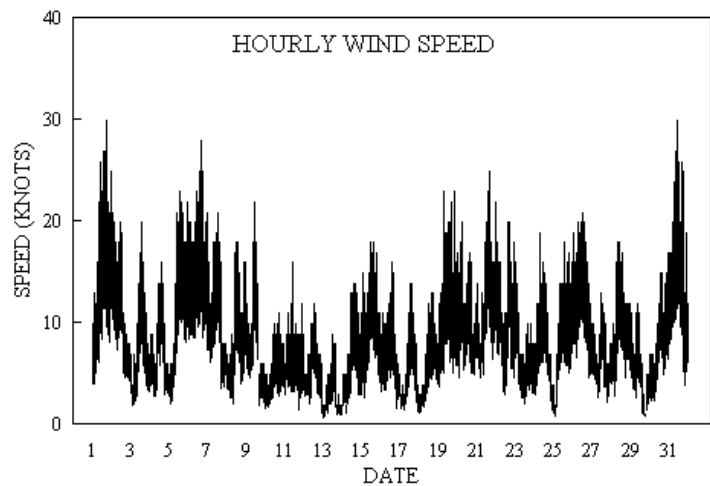
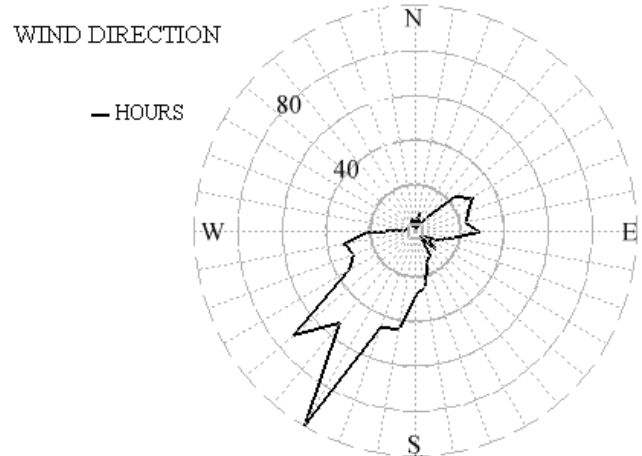
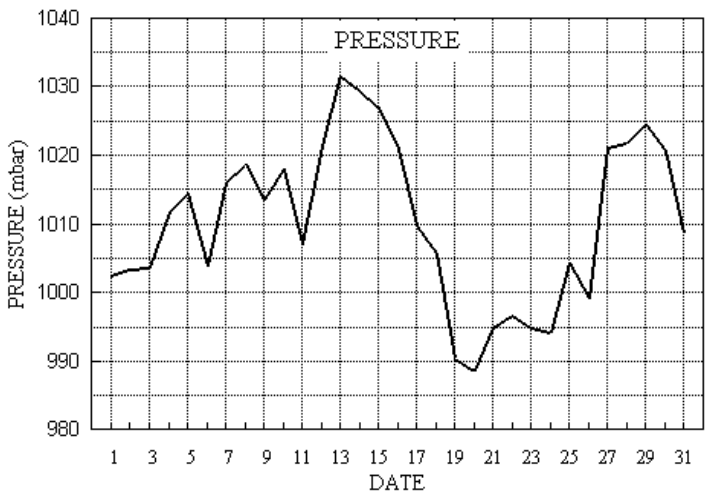
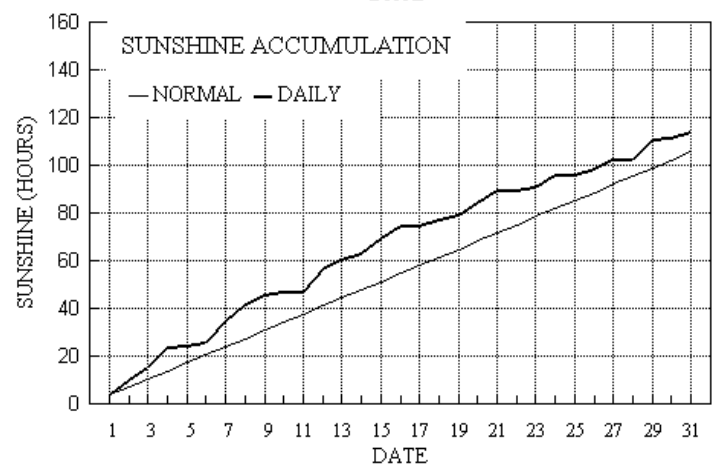
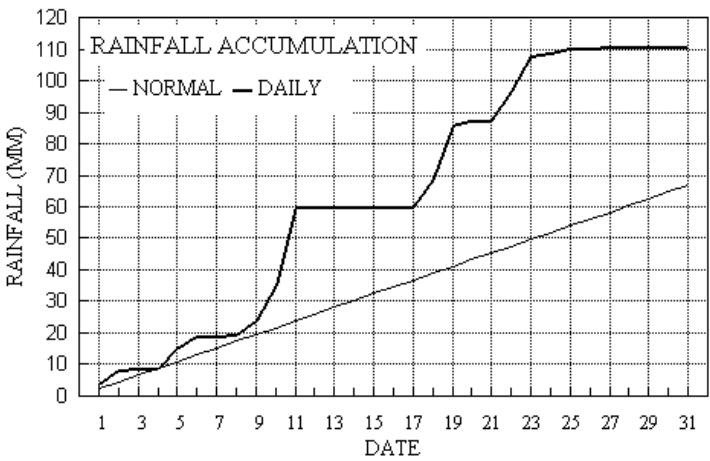
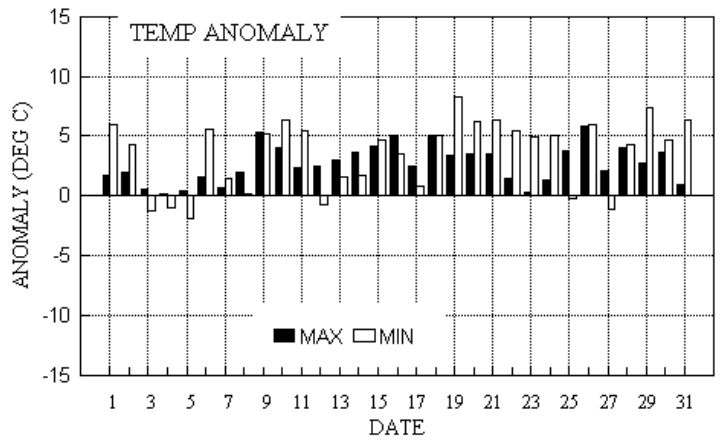
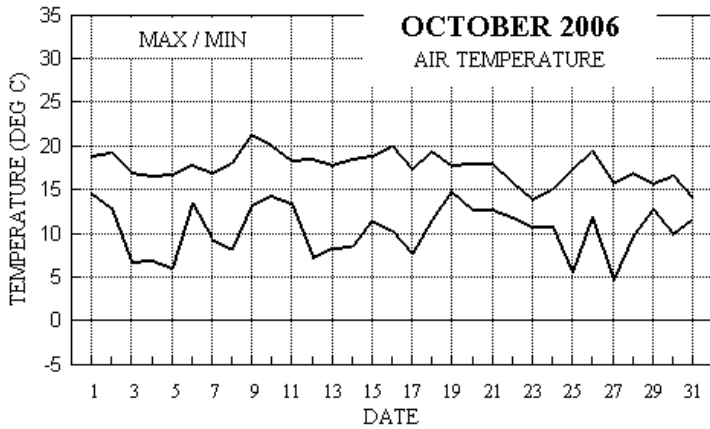
Notes: **Very Mild and Wet with Above Normal Sunshine**

Temperature. Yet another record breaking month with the mean temperature exceeding the previous highest in 2001 by 0.1°. The mean maximum, however, ranks only 4th highest, and was bettered last in 1995, and is 1.7° below the record set in 1921. The mean minimum is 2nd highest after 2001, but is only 0.1° below that record value. The 3 mildest Octobers in the past 125 years are 2006, 2001 and 2005. The highest maximum is 1.2° above the median but is 7.2° below the record set in 1921. The lowest maximum, however, is a new record for the past 94 years, and is 0.4° above the previous highest and 4.6° above the median. The lowest minimum is 2nd highest after 2001 in the past 103 years, and is 5.7° above the median. The highest min is 1.7° above the median and 1.2° below the record set in 2005. As in 2001 and 2005, this was also a frost free October. Earth temps at 30 cm and 1 m depth are both new record highs, as are the highest values at both depths (but note, these readings are from the new site). **Rainfall.** A wet month overall, and the wettest October since 2000, but 85.6 mm less than the record set in 1960. The months highest 24 hour total is also most since 2000, and the 24.9 mm that fell on the 11th made it the wettest day since 25 Nov 2003. There was prolonged thunder on 11th between 0230 and 1040 GMT, with rainfall rates reaching 94 mm/hr at 0908. Rain rate also reached 70 mm/hr at 1337 GMT on 2nd, and there was thunder on the 1st. The number of dry days is 3 fewer than average, and a dry spell of 6 days ended on the 17th. **Sunshine.** The total this October is highest since 2003, although it is only about 8 % above average. Overall there were 14 days with <3 hours, 7 with =>6 hours and 2 with =>9 hours. **Wind.** The mean wind speed of 6.2 mph is slightly below average. The windiest day was the 6th, mean 11.1 mph, but the month's highest gusts were 35 mph on the 1st and 31st. The least windy day was the 13th, 2.0 mph, and there were 621 minutes (10.35 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,0 NE,3 E,2 SE,4 S,4 SW,13 W,4 NW,1. **Humidity.** The mean relative humidity was 85.8 % with a minimum value of 42 % on the 4th. The mean water vapour content per kg of air was 8.8 g at 09 GMT and 8.6 g at 15 GMT. **Commentary. From the 1st to the 10th :** Mean anomalies (max, min, rain, sun) +1.8°, +2.5°, 162%, 138%. Daily maxima were above normal each day, with anomalies ranging from +0.2° on the 4th to +5.3° on the 9th, the month's warmest day. For min, there was a 3 day period with below normal temps, and anomalies ranged from -1.9° on 5th to +6.3° on 10th. There were only 2 dry days, and a total of 35.0 mm made this the 2nd wettest period in the month. Sunshine was reasonable, with 4 days having >50 % of max, but there were also 4 with <33 %. SW'ly winds were fresh on 1st and 6th, otherwise mainly moderate, and backed SE'ly on 7th. **From the 11th to the 20th :** Mean anomalies +3.5°, +3.6°, 242%, 112%. Once again positive anomalies throughout for max, ranging from +2.3° on 11th to +5.1° on 16th. Min too were mainly above normal, ranging from -0.8° on the 12th to +8.3° on the 19th, the month's mildest night. Although this was the wettest period in terms of total rainfall, with 52.3 mm, it was also the driest in terms of number of dry days, with a 6 day dry spell from 12th to 17th. The month's wettest day was on the 11th, and 17.2 mm also fell on the 19th. Sunshine was just above normal, although the month's sunniest day was on the 12th, 8 days had <50 % of max sun. Light SE'ly winds on 11th became NE'ly on 13th, veering and increasing moderate S'ly by the 19th. **From the 21st to the 31st :** Mean anomalies +2.7°, +4.4°, 100 %, 79 %. Yet again daily max was above normal every day, anomalies ranging from +0.9° on 31st, the month's coolest day, to +5.8° on 26th. Minima were mainly above normal, but an anomaly of -1.2° on the 27th marked the month's coldest night. Although there was 11.5 mm rain on 23rd, only 0.5 mm fell after the 25th, and the total of 23.7 mm made this the driest period. Sunshine was poor, only 1 day with >50 % of max, and 3 with nil. Light or mod winds were S'ly until 23rd, veering W'ly on 24th, backing SE'ly on 25th, settling between SW'ly and W'ly thereafter, increasing fresh on 31st.

B J Burton FRMetS. Hon. Met. Officer to Wokingham Town Council.

Wokingham Climatological Graphs

October 2006



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: OCTOBER 2006

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 mean ddd ff sp	Max gust ddd gg HHhh	High hr ddd ff HH	Rain hrs	
1	19.0	14.7	3.7	11.9	16.9	17.0	3.8	0.0	1002.6	0 0 0 0	1 0 0 0	0 0 0 0	206	8.1 8.3	210 30 1758	210 13 15	1.1	
2	19.2	13.0	4.3	10.3	16.4	16.9	6.0	0.0	1003.4	0 0 0 0	0 0 0 0	0 0 0 0	226	7.3 7.3	230 22 0020	230 11 00	0.7	
3	16.9	6.7	0.6	1.6	15.9	16.8	5.6	0.0	1003.7	0 0 0 0	0 0 0 0	0 0 0 0	259	4.4 4.7	280 20 1346	270 9 13	0.5	
4	16.6	7.0	tr	1.6	15.4	16.7	8.5	0.0	1011.8	0 0 0 0	0 0 0 0	0 0 0 0	247	4.2 4.5	280 16 1417	260 8 14	0.0	
5	16.8	6.1	6.5	0.8	14.5	16.5	0.1	0.0	1014.4	0 0 0 0	0 0 0 0	0 0 0 0	219	7.1 7.1	210 23 1202	220 11 13	7.1	
6	17.9	13.5	4.0	13.4	15.0	16.3	1.3	0.0	1003.9	0 0 0 0	0 0 0 0	0 0 0 0	229	9.2 9.6	230 28 1659	230 12 16	1.5	
7	17.0	9.4	0.0	5.5	15.1	16.2	9.4	0.0	1016.0	0 0 0 0	0 0 0 0	0 0 0 0	249	6.6 6.9	260 21 1326	260 10 12	0.0	
8	18.0	8.2	0.3	4.1	14.3	16.0	7.3	0.0	1018.6	0 0 0 0	0 0 0 0	0 0 0 0	185	4.8 5.0	200 18 1143	200 8 11	0.2	
9	21.4	13.2	4.3	11.2	14.5	15.9	3.5	0.0	1013.4	0 0 0 0	0 0 0 0	0 0 0 0	204	4.8 5.2	230 22 1118	230 11 11	1.6	
10	20.1	14.3	11.3	11.9	15.5	15.8	1.1	0.0	1017.9	0 0 0 0	0 0 0 0	0 0 0 0	129	2.2 3.0	120 11 1611	170 5 12	2.9	
11	18.4	13.4	24.9	9.5	15.9	15.8	0.1	0.0	1007.1	0 0 0 0	1 0 0 0	0 0 0 0	151	1.3 3.6	170 16 0950	130 5 09	2.3	
12	18.6	7.2	0.0	3.0	15.6	15.8	9.7	0.0	1021.4	0 0 0 0	0 0 0 0	0 0 0 0	217	3.2 3.5	230 12 1232	220 6 14	0.0	
13	17.9	8.4	tr	5.2	15.0	15.8	4.2	0.0	1031.6	0 0 0 0	0 0 0 0	0 0 0 0	32	1.3 1.7	20 9 1234	10 4 13	0.0	
14	18.5	8.5	0.0	3.9	14.8	15.8	2.7	0.0	1029.5	0 0 0 0	0 0 0 0	0 0 0 1	64	3.4 3.5	90 14 1417	80 6 14	0.0	
15	19.0	11.5	0.0	7.3	15.0	15.7	6.3	0.0	1027.0	0 0 0 0	0 0 0 0	0 0 0 0	62	5.8 5.9	70 18 1414	60 9 12	0.0	
16	20.0	10.3	0.0	6.4	15.0	15.6	5.2	0.0	1020.8	0 0 0 0	0 0 0 0	0 0 0 0	81	3.8 4.0	90 16 1439	90 6 13	0.0	
17	17.4	7.6	tr	3.5	14.7	15.6	0.1	0.0	1009.6	0 0 0 0	0 0 0 0	0 0 0 0	141	2.0 3.2	150 14 1301	190 7 15	0.0	
18	19.5	11.5	8.9	8.7	14.6	15.5	2.2	0.0	1005.6	0 0 0 0	0 0 0 0	0 0 0 0	98	3.1 3.4	100 13 1841	90 5 19	3.4	
19	17.9	14.8	17.2	13.3	15.2	15.4	2.1	0.0	990.3	0 0 0 0	0 0 0 0	0 0 0 0	168	5.5 6.5	200 23 0742	200 10 08	6.4	
20	18.0	12.7	1.3	11.4	15.0	15.4	5.0	0.0	988.7	0 0 0 0	0 0 0 0	0 0 0 0	208	5.8 6.3	180 20 0633	180 8 05	0.9	
21	18.0	12.8	0.1	10.8	14.9	15.4	5.0	0.0	995.0	0 0 0 0	0 0 0 0	0 0 0 0	208	7.8 7.8	210 25 1658	210 12 13	0.4	
22	15.9	11.9	9.3	8.5	14.5	15.4	0.0	0.0	996.7	0 0 0 0	0 0 0 0	0 0 0 0	198	6.0 6.4	190 20 1427	200 10 17	5.7	
23	14.0	10.8	11.5	9.9	14.5	15.3	1.7	0.0	994.8	0 0 0 0	0 0 0 0	0 0 0 0	182	1.0 3.9	210 16 0023	210 8 00	5.2	
24	15.0	10.9	0.7	7.9	14.3	15.2	4.8	0.0	994.3	0 0 0 0	0 0 0 0	0 0 0 0	283	2.5 4.7	320 19 0719	260 8 13	2.0	
25	17.4	5.6	1.6	1.5	13.5	15.1	0.0	0.0	1004.3	0 0 0 0	0 0 0 0	0 0 0 0	121	3.6 5.0	100 18 1203	200 8 22	1.1	
26	19.5	11.9	tr	12.5	13.9	15.0	3.0	0.0	999.1	0 0 0 0	0 0 0 0	0 0 0 0	228	7.5 7.8	230 21 1104	220 11 09	0.1	
27	15.8	4.7	0.3	0.0	13.5	14.9	3.5	0.0	1021.1	0 0 0 0	0 0 0 0	0 0 0 0	223	4.1 4.2	250 13 1142	240 7 13	0.6	
28	17.0	9.7	0.2	6.7	13.3	14.8	0.0	0.0	1021.8	0 0 0 0	0 0 0 0	0 0 0 0	227	5.9 6.2	230 18 0917	230 9 09	0.4	
29	15.7	12.7	0.0	7.2	14.0	14.6	8.8	0.0	1024.5	0 0 0 0	0 0 0 0	0 0 0 0	299	1.1 3.0	360 12 0922	350 6 09	0.0	
30	16.6	10.0	tr	5.4	13.8	14.6	0.2	0.0	1020.7	0 0 0 0	0 0 0 0	0 0 0 0	211	4.7 4.9	230 17 2216	240 9 21	0.0	
31	13.9	11.7	0.0	8.4	14.0	14.6	2.6	0.0	1008.6	0 0 0 0	0 0 0 0	0 0 0 0	270	7.1 9.0	270 30 1003	260 13 07	0.0	
Total			111.0				113.8	0.0										44.1
Mean	17.6	10.5		7.2	14.8	15.7	3.67	0.0	1010.3					212	3.0 5.4			
Anom	+2.8	+3.8	166%		+2.0	+1.3	108%											-4.9
Daily mean		14.1																
Anom		+3.3																

Number of days with:

Air frost = 0 Ground frost = 0 Nil sun = 3
 Snow falling = 0 Snow lying = 0 Thunder = 2
 Hail=>5mm = 0 Hail<5mm or ice = 0 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. 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.
 Anom = Departure from 1971-2000 climatological average.
 All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for OCTOBER 2006

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks										
1	20	7	22	10	22	16.7	14.1	85	10.2	1002.6	4	000	81	8	2	6	9	4	6	3	82815	85920	1	1Ac65	3Ci75					
2	82	5	22	08	14	16.5	12.5	77	9.2	1003.4	1	007	03	1	1	3	8	4	7	2	82818	83358	2	2Sc45	2Ci75	Cu fra				
3	84	1	27	04	09	13.5	10.7	83	8.1	1003.7	1	008	03	0	0	1	8	4	0	1	81812		3	1Sc45	1Ci78	Cu fra				
4	84	2	25	05	08	13.0	9.1	77	7.2	1011.8	2	011	02	0	0	1	0	8	7	1	81357		4	2Ci75	COTRA					
5	75	7	22	05	12	13.5	11.1	85	8.2	1014.4	2	001	60	6	2	3	8	4	7	/	81812	83650	87358	5	Cu fra					
6	59	8	21	09	18	16.8	16.3	97	11.7	1003.9	7	023	58	6	5	7	7	3	2	/	83707	87710	88520	6						
7	82	1	26	09	18	13.2	8.0	71	6.6	1016.0	2	030	03	0	0	1	1	4	0	0	81818			7	Cu fra					
8	65	7	18	03	07	14.1	11.3	83	8.3	1018.6	8	005	02	2	2	1	8	6	0	1	81830	87080		8	1Sc40	COTRA	Parhelia			
9	62	7	22	05	12	13.5	11.1	85	11.0	1013.4	3	011	01	2	2	5	8	4	3	1	82812	84635		9	2Ac65	/Ci80	COTRA	Cu fra		
10	28	7	16	02	05	17.6	16.9	96	12.1	1017.9	2	004	21	6	2	7	5	2	7	/	83705	86630	87358	10						
11	35	8	13	04	10	16.3	15.8	97	11.3	1007.1	7	004	95	9	6	8	9	3	/	/	82706	85708	87712	11	8Cb025					
12	75	7	25	02	05	12.2	9.9	86	7.5	1021.4	2	024	02	2	2	0	0	9	0	1	87078			12	COTRA					
13	18	8	06	02	04	13.1	12.9	99	9.1	1031.6	2	014	28	4	2	8	6	0	/	/	83701	88702		13						
14	01	9	03	02	05	11.6	11.6	100	8.4	1029.5	1	008	45	4	4	9	/	/	/	/				14	vv	180m				
15	50	7	06	05	13	14.6	11.6	82	8.4	1027.0	3	003	05	1	1	7	5	5	/	/	81622	87625		15						
16	18	7	08	04	10	12.5	11.4	93	8.3	1020.8	4	000	05	2	2	8	6	2	/	/	83705	87708		16						
17	23	8	13	03	07	13.0	12.6	98	9.2	1009.6	5	009	10	4	1	8	6	2	/	/	88705			17						
18	56	7	09	01	05	15.7	15.2	97	10.9	1005.6	8	009	21	6	4	7	5	3	3	/	85706	87620		18	/Ac60					
19	68	5	20	09	19	15.3	12.0	81	9.0	990.3	3	010	25	8	6	4	8	4	0	1	82815	83645		19	3Ci72	COTRA	Cu con W			
20	84	2	25	05	10	14.8	12.8	88	9.5	988.7	3	016	01	6	5	2	8	4	0	0	82812			20	1Sc30	Cu medE.	CF 0718			
21	58	7	19	05	11	14.4	13.0	91	9.5	995.0	0	001	62	6	2	6	5	4	7	/	82712	85620	87358	21						
22	72	7	19	04	09	14.0	11.2	83	8.4	996.7	0	001	60	6	2	1	2	5	7	8	81825	85462	87270	22	2Ac64	COTRA	Cu med			
23	80	7	24	02	06	12.0	9.0	82	7.3	994.8	0	013	01	2	2	6	8	4	0	4	81815	86620		23	3Ci75	Cu hum				
24	50	8	29	07	15	11.7	10.3	91	8.0	994.3	2	074	50	5	2	8	5	3	/	/	83706	87708	88612	24						
25	61	8	09	06	11	11.9	11.1	95	8.3	1004.3	7	009	61	6	2	3	8	3	2	/	81708	87458		25	1Cu35	2Sc56	Cu scgen			
26	72	7	21	11	20	17.0	14.2	84	10.3	999.1	2	011	01	2	2	3	5	4	7	1	81615	83620	86075	26	4Ac60	3Ac65				
27	73	2	23	04	08	10.0	6.8	81	6.1	1021.1	2	020	02	0	0	1	5	6	3	1	81635			27	1Ac62	2Ci80				
28	65	7	23	10	17	15.8	13.7	87	9.7	1021.8	6	003	01	2	2	6	5	4	3	8	86615	83365	87275	28	COTRA	Parhelia	faint			
29	81	6	34	07	14	13.5	9.4	76	7.3	1024.5	3	024	02	2	2	1	1	4	3	1	81815	85075		29	1Ac65	2Ci80	COTRA	Parhelia	Halo	22 part
30	58	8	19	04	08	13.0	11.7	92	8.5	1020.7	7	009	05	1	1	8	6	4	/	/	88712			30						
31	82	1	27	10	23	12.5	5.7	63	5.7	1008.6	2	011	03	1	1	1	8	5	0	8	81828			31	1Sc35	1Cs75	COTRA			

Mean vis = 18.7 km

Mean cloud = 6.0 75%

Mean wind speed = 5.4 kn

Mean gust = 11 kn

Mean TT = 14.1 C

Mean TdTd = 11.9 C

Mean RH = 86.6 %

Mean r = 8.8 g/kg

Mean PPP = 1010.3 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

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 2006

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppwwW1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	58	7	21	13	23	17.1	13.8	81	10.0	1000.7	8	009 95	8	9	7	9	5	6	3	83822	85925	1	/Ac65 /Ci72 Rainbow	
2	75	6	21	06	10	16.0	14.7	92	10.6	1001.5	6	012 15	8	2	3	9	4	6	1	81715	82920	2	2Cu25 1Sc50 2Ac60 2Ci75 jpW-S-E vv70k ex p	
3	89	7	27	08	15	15.3	9.1	66	7.3	1003.6	3	005 14	1	1	7	8	6	/ /	81830	83835	87645	3	Cu hum jpE	
4	84	5	26	08	15	16.2	4.3	45	5.2	1012.4	2	003 03	1	1	1	2	6	4	4	81845	84078	4	1Ac68 1Ci75 COTRA Cu med Halo 22° part	
5	58	8	21	11	20	15.0	14.1	94	10.1	1010.8	6	019 63	6	5	7	7	3	2	/	83707	86712	88525	5	
6	81	5	24	11	22	17.3	10.8	66	8.2	999.7	8	011 15	6	8	3	8	5	0	2	81828	83640	6	2Ci75 Cu med jp NW	
7	84	3	25	10	18	16.4	6.7	53	6.1	1017.8	2	002 02	0	0	3	4	6	0	1	81842	83645	7	1Ci78 Cu hum	
8	80	3	17	07	16	16.6	8.2	58	6.7	1015.3	7	021 02	1	1	1	1	6	0	1	81838	83080	8	COTRA Cu hum ra	
9	60	6	21	07	13	20.8	14.9	69	10.6	1015.2	1	006 15	2	2	6	8	5	3	1	83825	83360	9	1Sc35 2Cu50 /Ci75 Cu con jp W-N	
10	80	7	16	04	09	19.1	15.3	79	10.7	1015.5	7	016 02	2	2	7	8	5	/ /	83825	86635	10	Cu hum		
11	62	6	21	05	08	17.8	16.4	91	11.6	1007.4	4	000 25	8	2	4	9	4	7	/	81915	83818	85359	11	2Sc45 2Ac62 Cb N
12	80	7	22	06	11	18.5	11.0	62	8.1	1024.2	2	012 02	2	2	1	1	5	0	1	81828	87078	12	COTRA Cu hum Cz arc	
13	65	4	01	03	06	17.0	12.1	73	8.7	1030.2	7	010 02	1	1	2	2	5	0	1	82825	83080	13	COTRA Cu med Parhelia	
14	57	4	08	06	14	17.9	11.5	66	8.4	1027.2	7	013 05	1	1	4	5	0	0	0	84625		14	Absent vv&cld est	
15	57	1	07	08	18	18.1	11.4	65	8.3	1024.2	6	012 05	0	0	1	1	5	0	0	81825		15	Cu hum	
16	59	3	11	05	14	19.3	12.4	64	9.0	1015.8	6	027 05	0	0	1	0	9	8	1	81368	83075	16	COTRA Parhelia	
17	61	8	17	06	13	16.8	12.5	76	9.1	1007.1	5	014 03	2	2	7	5	2	/	85625	87635	17	/As60		
18	78	7	10	05	10	18.0	13.3	74	9.6	1000.6	6	028 01	2	2	1	8	5	8	1	81822	87080	18	1Sc35 1Ac59 COTRA Cu hum Ac cas	
19	75	7	16	08	17	16.7	11.2	70	8.5	989.3	8	015 15	8	2	7	8	5	/ 8	82825	84640	87275	19	3Sc50 jp W	
20	88	7	24	07	14	16.5	10.5	68	8.1	991.3	3	010 03	1	1	2	8	5	5	1	81828	86359	86080	20	2Sc56 COTRA Cu fra
21	65	2	21	11	21	16.8	11.5	71	8.6	995.1	7	004 15	8	1	2	9	5	3	1	81922		21	2Cu25 1Ac60 1Ci75 Cb&jpNW	
22	35	8	19	08	16	15.1	14.3	95	10.3	989.4	7	044 59	6	5	7	7	3	2	/	82707	87712	88525	22	
23	81	7	09	04	07	12.2	9.8	85	7.7	991.4	8	027 14	2	2	1	5	5	7	/	81620	83460	87362	23	1Ac58
24	82	2	25	07	15	13.7	8.2	69	6.8	1002.8	1	026 01	1	1	2	8	6	0	0	82830		24	1Sc40 Cu med	
25	68	8	11	06	12	14.6	10.7	78	8.1	997.9	7	036 60	6	2	1	5	7	7	/	81650	86358	88465	25	
26	89	6	26	10	20	15.6	10.0	69	7.7	1004.0	3	029 03	8	1	6	8	5	/ /	83825	86635	26	Cu hum		
27	75	7	23	04	10	13.1	8.2	72	6.7	1022.9	2	008 03	2	2	1	1	5	7	8	81825	86360	87365	27	/Cs75 Absent vv&cld est
28	78	7	23	07	14	17.0	14.6	86	10.3	1020.3	7	010 02	2	2	7	5	4	/ 1	87615		28	/Ci75		
29	82	6	07	02	05	14.6	9.6	72	7.3	1025.4	2	002 02	2	2	1	0	9	3	1	81365	86078	29	COTRA Parhelia	
30	50	8	21	08	15	15.5	14.4	93	10.1	1016.1	7	025 50	5	2	8	5	3	/ /	83708	88612	30			
31	88	7	27	11	19	13.7	8.5	71	6.9	1008.9	3	011 03	2	2	7	8	5	/ /	83828	87640	31			

Mean vis = 28.7 km

Mean cloud = 5.8 72%

Mean wind speed = 7.2 kn

Mean gust = 14 kn

Mean TT = 16.4 C

Mean TdTd = 11.4 C

Mean RH = 73.3 %

Mean r = 8.6 g/kg

Mean PPP = 1009.2 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

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 Psychrometer
 Daily means and extremes, 00-24 GMT
 OCTOBER 2006

Date	Mean		Max		Min		Mean		Max		Min		Missing RH N >0	Number of minutes RH in given ranges							
	TT	TT	Time	TT	Time	RH	RH	Time	RH	Time	RH	Time		RH	0-20	20-40	40-60	60-80	80-90	90-95	95-98
01	16.0	18.7	14:39	14.0	20:34	82.7	91.4	01:33	67.9	16:06			0	0	0	479	739	222	0	0	
02	14.4	19.2	13:08	11.1	23:16	84.6	96.0	23:43	59.8	12:47			0	0	1	280	754	345	60	0	
03	12.0	16.9	12:28	8.4	05:14	85.8	98.6	06:48	54.5	12:28			0	0	110	327	74	395	484	50	
04	11.5	16.6	14:30	7.6	06:49	77.5	94.5	07:06	42.3	14:30			0	0	252	365	281	542	0	0	
05	12.8	15.8	23:47	7.8	03:04	91.9	96.3	04:49	77.3	10:10			0	0	0	30	371	826	213	0	
06	15.5	17.6	10:53	13.0	23:53	88.3	96.0	09:21	64.7	15:34			0	0	0	155	539	595	151	0	
07	12.6	17.0	14:15	9.2	06:14	75.1	91.0	23:58	44.2	13:23			0	0	363	289	748	40	0	0	
08	13.3	17.9	14:38	9.0	06:36	79.0	97.4	07:18	50.5	14:41			0	0	295	466	78	262	339	0	
09	17.0	21.4	13:48	14.1	00:00	86.0	96.0	23:59	62.4	11:40			0	0	0	348	478	463	151	0	
10	17.0	20.2	13:04	14.8	23:58	92.5	99.8	10:38	77.2	14:37			0	0	0	131	276	328	557	148	
11	15.7	18.5	13:54	11.9	23:59	95.3	99.1	11:44	87.4	23:32			0	0	0	0	55	406	956	23	
12	12.9	18.6	14:52	8.3	06:13	86.2	98.3	07:38	61.4	14:52			0	0	0	427	204	300	488	21	
13	12.8	17.9	15:13	9.3	01:53	90.5	99.5	09:53	66.6	15:15			0	0	0	279	190	229	286	456	
14	13.6	18.5	14:16	9.1	05:01	89.2	100.0	07:01	63.6	15:09			0	0	0	303	419	14	134	570	
15	14.8	19.0	13:37	12.4	22:31	78.5	91.0	22:51	61.1	13:45			0	0	0	670	683	87	0	0	
16	14.5	20.0	14:28	11.1	23:59	84.3	96.8	23:53	57.6	13:30			0	0	44	404	280	474	238	0	
17	13.4	17.5	13:42	9.2	03:52	90.8	99.2	07:49	69.8	13:45			0	0	0	272	215	181	507	265	
18	15.4	19.5	12:59	12.4	00:03	88.5	98.7	06:47	63.9	13:04			0	0	0	289	441	118	307	285	
19	14.9	17.6	12:08	12.9	22:07	86.1	96.4	03:59	64.1	12:53			0	0	0	378	385	335	342	0	
20	14.3	17.8	13:09	12.8	02:47	86.6	96.7	08:23	63.4	13:54			0	0	0	373	191	505	371	0	
21	14.2	18.0	13:16	11.8	20:00	82.6	94.9	08:22	58.9	13:58			0	0	5	599	447	389	0	0	
22	14.1	15.5	20:38	12.3	06:23	87.4	96.3	13:39	70.3	00:19			0	0	0	414	199	390	437	0	
23	12.1	15.2	00:00	10.6	08:17	90.7	98.2	23:59	77.3	10:59			0	0	0	190	246	605	391	8	
24	11.4	15.0	14:48	7.9	23:52	88.5	99.1	07:18	62.3	15:39			0	0	0	361	166	257	172	484	
25	12.2	17.1	23:58	6.5	03:16	92.4	98.3	04:31	77.7	14:50			0	0	0	78	290	512	527	33	
26	14.8	19.6	12:16	8.8	23:30	80.0	92.7	00:00	63.8	15:31			0	0	0	617	778	45	0	0	
27	10.4	14.8	11:43	5.8	06:34	83.2	94.2	07:17	61.8	11:46			0	0	0	389	616	435	0	0	
28	15.2	17.3	12:37	11.6	00:00	88.7	94.2	22:42	80.1	12:39			0	0	0	0	722	718	0	0	
29	13.7	16.1	00:00	11.1	23:05	85.0	95.5	07:04	62.1	13:49			0	0	0	413	343	576	108	0	
30	13.9	16.9	13:29	11.0	02:07	91.0	97.2	07:53	83.5	11:57			0	0	0	0	562	669	209	0	
31	12.1	14.4	00:00	6.4	23:59	70.9	88.9	05:20	55.3	22:44			0	0	104	922	414	0	0	0	
Mean	13.8	17.6		10.4		85.8	96.2		64.9				0.00	0.00	0.63	5.51	6.55	6.06	3.99	1.26	
Hi	17.0	21.4		14.8		95.3	100.0		87.4	Tot	0	0	0	0	1174	10248	12184	11263	7428	2343	
Lo	10.4	14.4		5.8		70.9	88.9		42.3												

Note. Aspirated Psychrometer exposed near house. Winds with a component from 030 deg can produce a distorted diurnal temperature profile. Compensation for this is made in post processing, and maxima are constrained to be within 0.2C of screen values about 500m away. Minima on radiation nights can also be about 1C higher than screen values, due partly to topography. No compensation is made for this. Humidity readings are similar to screen derived values under most conditions and in most instances can be considered more accurate due to controlled aspiration. The psychrometer is of experimental design, and logs one minute average values of temp and RH.