

# 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

JUNE 2008

Temperature (°C / °F)			Anomaly	Rank in the past 127 years			
Mean maximum	20.2	68.4	+0.4	59 <sup>th</sup> highest			
Mean minimum	10.6	51.1	+0.5	27 <sup>th</sup> highest			
Daily mean	15.4	59.7	+0.4	45 <sup>th</sup> highest			
Highest maximum	25.5	77.9	on 9 <sup>th</sup>	Lowest maximum	15.3	59.5	on 3 <sup>rd</sup>
Highest minimum	15.8	60.4	on 22 <sup>nd</sup>	Lowest minimum	6.3	43.3	on 16 <sup>th</sup>
Mean grass minimum	8.0	46.4		Lowest grass minimum	2.4	36.3	on 16 <sup>th</sup>
Mean earth @30 cm	17.6	63.7	+1.3	Earth @100 cm	16.6	61.9	
Frost duration (hrs)	0.0			Rain duration (hrs)	33.0		
Rainfall total (mm / in)	54.6	2.15	100 %	47 <sup>th</sup> highest			
Highest daily fall	30.1	1.19	on 2 <sup>nd</sup>				
Number of: Dry days (<0.2mm)	23	Wet days (>0.9mm)	7	days ≥5mm	3		
Sunshine total (hrs)	215.2	Daily mean	7.17	124 %	Sunniest day	14.2	on 9 <sup>th</sup>
N <sup>o</sup> days with: Air frost	0	Ground frost	0	Snow falling	0	Snow lying	0
Thunder	1	Hail ≥5mm	0	Small hail/ice	1	Fog @09	0
Nil sun	0						
Air pressure MSL : Mean @09 GMT (mbar/in)	1017.2		+0.2	30.04			
Absolute highest	1026.3			30.31	on 9 <sup>th</sup>		
Absolute lowest	1003.9			29.65	on 19 <sup>th</sup>		

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

Notes:

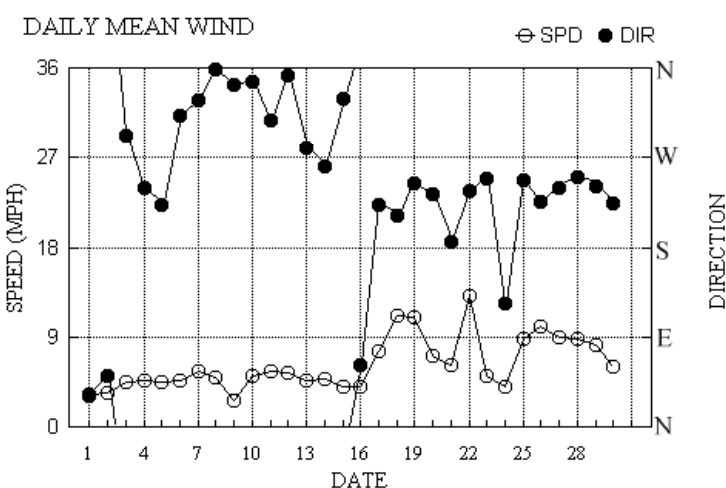
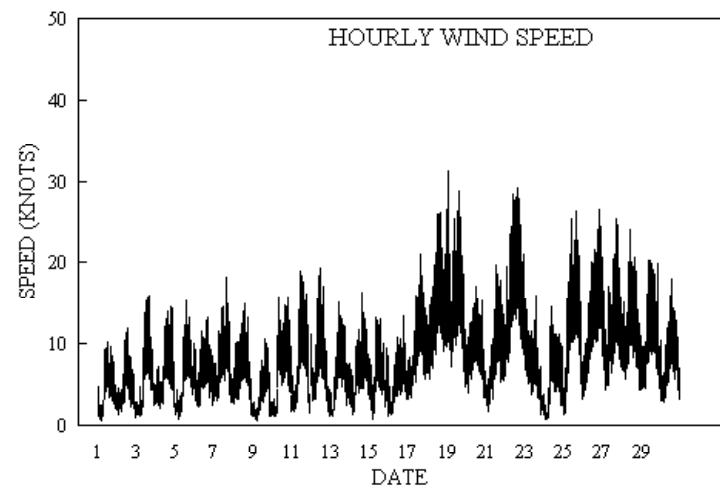
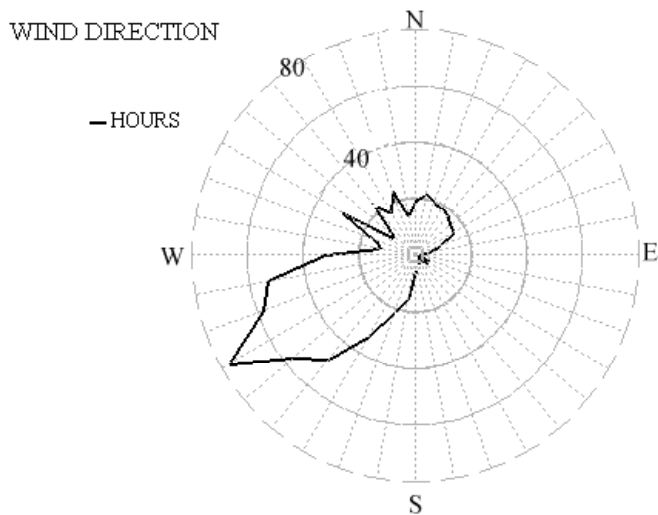
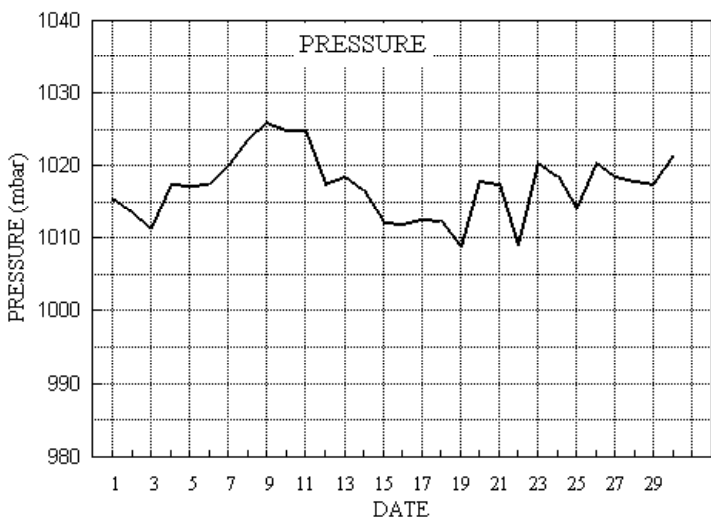
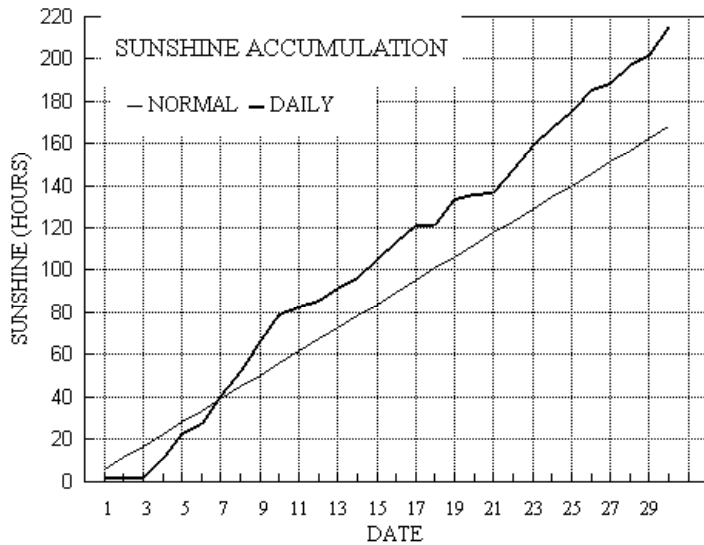
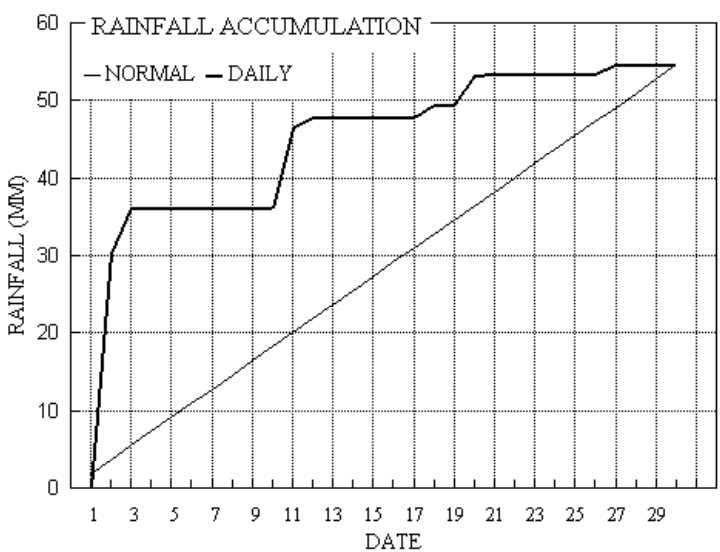
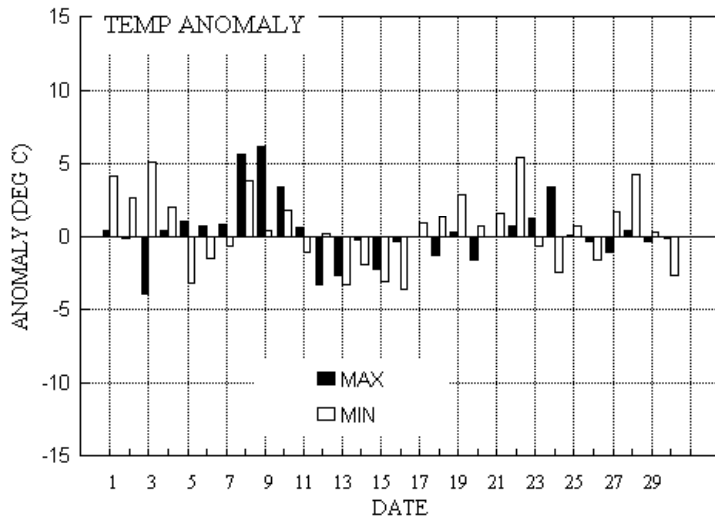
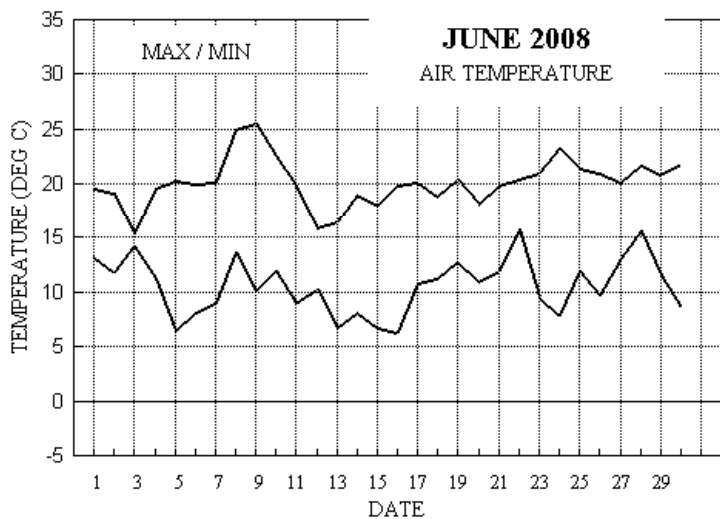
### Temperature and Sunshine Above Normal, Rainfall Near Normal.

**Temperature:** The mean temperature this month is a little above the current 30 year climatological average, but nevertheless it is the coolest June since 2002. For maximum temperature, the span of degree days above and below the long-term median is lowest since before 1976, and is half the average. This indicates an unusually large number of days with the temperature close to normal. The highest maximum is lowest since 1991 and is 1.5° below the median. The lowest maximum is 0.5° above the median. The highest minimum is 1.0° above the median and the lowest minimum is 1.6° above its median. Earth temperatures at both 30 cm and 1 m depth are above normal. **Rainfall:** By coincidence the rainfall total exactly equals the current 1971-2000 climatological average, but it is 8.6 mm above the long-term median. The 30.1 mm that was recorded for the 2<sup>nd</sup>, the month's wettest day, is the most for a June day since 1994. Local flooding ensued when the Emm overtopped its banks. The number of dry days is 4 above average. A dry spell of 7 days ended on the 10<sup>th</sup>, one of 5 days on the 17<sup>th</sup> and another of 6 days on the 26<sup>th</sup>. The total duration of rain is 5 hours more than average. There was thunder and small hail on the 12<sup>th</sup>, and the month's highest rainfall rate of 49 mm/hr occurred at 0950 GMT, during that storm. **Sunshine:** Quite a good showing this month, nearly 25 % above average. The best sunny spell was from the 4<sup>th</sup> to the 10<sup>th</sup>, and the daily mean over this period was 11.3 hours. The total on the sunniest day, 14.2 hours, is only 86 % of the maximum possible, and is lowest for June since 1998. Overall there were 7 days with <3 hours, 17 with =>6 hours, 11 with =>9 hours and 5 with =>12 hours. **Wind:** The mean wind speed this June was 6.2 mph, which is close to average. The windiest day was the 22<sup>nd</sup>, mean 13.1 mph, but the month's highest gust of 37 mph was on the 19<sup>th</sup>. The 9<sup>th</sup> was the least windy day, mean 2.6 mph, and there were 851 minutes, (14.2 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days : N,4 NE,3 E,0 SE,1 S,1 SW,12 W,4 NW,5. **Humidity:** The overall mean relative humidity was 69.5 %. The lowest value reached was 31 % on the 19<sup>th</sup>. The mean water vapour content per kg of air was 7.6 g at 0900 GMT and 7.0 g at 1500 GMT. **Commentary:** The month started wet, with 36 mm of rain by the 3<sup>rd</sup>. The anomaly of -4° for the max on the 3<sup>rd</sup> was an exception with other values close to normal up to the 7<sup>th</sup>. The 8<sup>th</sup> and 9<sup>th</sup> were warm days with anomalies for the max around +6°, but they were also exceptions this month. It was dry from the 4<sup>th</sup> to the 10<sup>th</sup>, and quite sunny, then 2 wet days were followed by 5 more dry ones. Temperatures were below normal on the 12<sup>th</sup> and 13<sup>th</sup>, otherwise near normal. Winds up to the 16<sup>th</sup> were mostly light, NE'ly at first, backing SW'ly by the 4<sup>th</sup>, veering N'ly by the 8<sup>th</sup>, backing W'ly by the 14<sup>th</sup>, then veering E'ly on the 16<sup>th</sup>. From the 16<sup>th</sup> onwards there was a little rain on only 3 days, temperatures were never far from normal, sunshine was mostly near or above normal, and winds were mainly SW'ly, fresh on the 18<sup>th</sup>, 19<sup>th</sup>, 22<sup>nd</sup>, 25<sup>th</sup> and 26<sup>th</sup>, otherwise mainly moderate.

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

1 <sup>st</sup> to the 10 <sup>th</sup> .				11 <sup>th</sup> to the 20 <sup>th</sup>				21 <sup>st</sup> to the 30 <sup>th</sup>			
+1.5°	+1.5°	198 %	136 %	-1.1°	-0.7°	93 %	98 %	+0.4°	+0.7°	5 %	136 %

# Wokingham Climatological Graphs for June 2008



Month: JUNE 2008

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	19.6	13.3	tr	11.4	16.5	15.1	1.7	0.0	1015.5	0 0 0 0	0 0 0 0	0 0 0 0	31	2.5	2.8	31 10 1239	32 5 11	0.0	
2	19.1	11.8	30.1	9.0	16.8	15.3	0.1	0.0	1013.7	0 0 0 0	0 0 0 0	0 0 0 0	51	2.8	2.9	35 12 1205	43 5 11	11.2	
3	15.3	14.2	6.1	14.3	16.7	15.4	0.1	0.0	1011.3	0 0 0 0	0 0 0 0	0 0 0 0	293	3.4	3.9	304 16 1514	309 7 15	7.6	
4	19.6	11.2	0.0	10.9	16.3	15.6	9.7	0.0	1017.5	0 0 0 0	0 0 0 0	0 0 0 0	239	3.9	4.0	235 15 1858	228 6 18	0.0	
5	20.3	6.5	0.0	2.5	16.7	15.7	11.2	0.0	1017.2	0 0 0 0	0 0 0 0	0 0 0 0	223	3.4	3.9	229 16 1230	229 7 12	0.0	
6	20.0	8.2	0.0	3.9	17.1	15.8	4.8	0.0	1017.4	0 0 0 0	0 0 0 0	0 0 0 0	312	2.9	4.0	306 13 1518	331 6 14	0.0	
7	20.1	9.0	0.0	4.6	17.1	15.9	13.1	0.0	1020.1	0 0 0 0	0 0 0 0	0 0 0 0	328	4.4	4.8	28 18 1519	6 7 15	0.0	
8	25.0	13.6	0.0	11.6	17.4	16.0	11.7	0.0	1023.7	0 0 0 0	0 0 0 0	0 0 0 0	359	3.9	4.3	22 15 1358	23 7 17	0.0	
9	25.5	10.1	0.0	6.1	18.0	16.2	14.2	0.0	1025.9	0 0 0 0	0 0 0 0	0 0 0 0	344	1.4	2.3	262 11 1549	330 5 16	0.0	
10	22.6	12.0	0.0	8.5	18.4	16.3	12.5	0.0	1024.8	0 0 0 0	0 0 0 0	0 0 0 0	346	3.8	4.4	31 16 0833	2 7 07	0.0	
11	19.8	9.0	10.2	4.9	18.3	16.5	3.9	0.0	1024.8	0 0 0 0	0 0 0 0	0 0 0 0	307	4.4	4.9	316 19 1048	329 8 10	5.1	
12	15.9	10.3	1.4	10.3	18.0	16.7	3.0	0.0	1017.4	0 0 0 0	1 0 1 0	0 0 0 0	353	4.0	4.7	29 20 1142	18 9 11	0.1	
13	16.5	6.8	0.0	3.1	17.5	16.8	5.3	0.0	1018.6	0 0 0 0	0 0 0 0	0 0 0 0	280	3.5	4.0	279 15 1021	272 7 10	0.0	
14	19.0	8.2	0.0	4.9	17.2	16.8	5.8	0.0	1016.7	0 0 0 0	0 0 0 0	0 0 0 0	262	3.6	4.2	277 16 1444	229 7 16	0.0	
15	18.0	6.8	0.0	2.7	17.4	16.8	8.5	0.0	1012.1	0 0 0 0	0 0 0 0	0 0 0 0	329	2.8	3.4	360 13 0732	324 6 10	0.0	
16	19.9	6.3	tr	2.4	17.4	16.8	7.7	0.0	1011.9	0 0 0 0	0 0 0 0	0 0 0 0	62	1.1	3.4	156 14 1822	151 6 18	0.0	
17	20.2	10.8	tr	8.3	17.7	16.8	8.1	0.0	1012.7	0 0 0 0	0 0 0 0	0 0 0 0	222	6.4	6.6	217 21 1514	242 9 16	0.0	
18	18.9	11.2	1.7	8.9	17.7	16.9	0.1	0.0	1012.5	0 0 0 0	0 0 0 0	0 0 0 0	212	9.6	9.6	212 27 2351	223 12 14	2.5	
19	20.5	12.8	0.0	11.9	17.4	16.9	12.4	0.0	1008.7	0 0 0 0	0 0 0 0	0 0 0 0	245	9.0	9.6	222 32 0000	259 13 14	0.0	
20	18.2	11.0	3.8	8.8	17.6	16.9	2.5	0.0	1018.0	0 0 0 0	0 0 0 0	0 0 0 0	233	6.0	6.2	254 17 1135	239 8 11	5.5	
21	19.8	11.9	0.1	11.8	17.5	17.0	0.1	0.0	1017.4	0 0 0 0	0 0 0 0	0 0 0 0	185	4.4	5.3	198 20 1248	197 9 14	0.4	
22	20.5	15.8	0.0	15.7	17.5	17.0	11.5	0.0	1009.1	0 0 0 0	0 0 0 0	0 0 0 0	236	10.9	11.4	250 29 1545	249 15 15	0.0	
23	21.0	9.6	0.0	7.3	17.6	17.0	11.6	0.0	1020.4	0 0 0 0	0 0 0 0	0 0 0 0	249	3.5	4.4	191 16 1317	236 8 00	0.0	
24	23.2	7.9	0.0	5.0	18.0	17.0	7.6	0.0	1018.6	0 0 0 0	0 0 0 0	0 0 0 0	124	2.7	3.5	160 15 0940	141 7 09	0.0	
25	21.4	12.0	tr	8.9	18.3	17.1	8.6	0.0	1014.1	0 0 0 0	0 0 0 0	0 0 0 0	247	7.3	7.6	260 27 1504	257 12 14	0.0	
26	21.0	9.7	tr	6.0	18.0	17.2	10.2	0.0	1020.5	0 0 0 0	0 0 0 0	0 0 0 0	226	8.6	8.8	218 27 1932	218 13 19	0.1	
27	20.2	13.1	1.2	10.1	18.2	17.3	2.3	0.0	1018.6	0 0 0 0	0 0 0 0	0 0 0 0	239	7.7	7.8	222 26 1720	230 11 17	0.5	
28	21.7	15.6	0.0	13.7	18.2	17.4	8.7	0.0	1018.0	0 0 0 0	0 0 0 0	0 0 0 0	250	7.5	7.7	265 24 0949	249 10 12	0.0	
29	20.9	11.6	tr	9.1	18.4	17.4	4.5	0.0	1017.4	0 0 0 0	0 0 0 0	0 0 0 0	241	7.0	7.1	249 20 1136	245 10 15	0.0	
30	21.8	8.6	0.0	4.3	18.1	17.5	13.7	0.0	1021.4	0 0 0 0	0 0 0 0	0 0 0 0	224	4.8	5.2	271 18 1321	232 7 13	0.0	
Total			54.6				215.2	0.0										33.0	
Mean	20.2	10.6		8.0	17.6	16.6	7.17	0.0	1017.2					251	3.2	5.4			
Anom	+0.4	+0.5	100%		+1.3	+2.5	128%												+0.2
Daily mean		15.4																	
Anom		+0.4																	
Number of days with:																			
Air frost = 0				Ground frost = 0				Nil sun = 0											
Snow falling = 0				Snow lying = 0				Thunder = 1											
Hail=>5mm = 0				Hail<5mm or ice = 1				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, &lt;.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 =&gt;5mm. Ic = Hail &lt;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 JUNE 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	61	6	01	05	09	16.3	11.0	71	15.5	1015.5	8	006	21	6	2	2	1	5	3	1	82820	83362	85075	1	Cu fra/hum
2	56	8	04	04	07	15.4	12.3	2	8.9	1013.7	8	001	05	6	2	4	8	4	7	/	83815	86359	88465	2	2Sc56 Cu hum
3	25	8	32	04	09	14.1	13.5	96	9.6	1011.3	3	015	65	6	6	7	7	2	2	/	82703	86705	88530	3	
4	75	6	25	03	06	15.0	9.2	68	7.2	1017.5	1	005	01	2	2	1	2	5	7	1	81822	83365	85075	4	2Ac62 COTRA Cu med
5	80	3	36	01	04	16.0	9.5	65	7.8	1017.2	8	004	03	4	1	1	2	5	0	2	81828	83075		5	COTRA Cu med
6	62	7	28	05	11	13.5	9.4	76	7.3	1017.4	3	005	02	1	1	7	5	4	3	1	87615			6	1Ac68 /Ci75 COTRA
7	80	1	30	06	13	16.1	8.7	61	6.7	1020.1	0	003	03	0	0	1	1	5	3	8	81828			7	1Ac68 1Cs72 Cu hum/fra
8	58	3	33	05	09	17.4	12.5	73	8.8	1023.7	0	007	05	1	1	1	6	4	0	1	81715	83078		8	COTRA
9	80	6	07	02	04	21.1	7.9	43	6.4	1025.9	8	002	02	1	1	0	0	9	0	1	81172	86075		9	COTRA
10	73	6	36	06	15	19.5	12.4	63	8.9	1024.8	8	001	03	1	1	4	8	5	3	2	82828	83635		10	1Ac65 3Ci75 COTRA Cu hum Iridescence
11	82	7	29	05	15	16.8	9.4	62	6.9	1024.8	7	001	03	2	2	7	8	5	/	1	81828	87650		11	1Sc40 /Ci75 COTRA Cu med
12	58	6	34	08	18	11.9	9.1	83	7.2	1017.4	4	000	81	8	1	6	3	4	6	0	81918	84825		12	2Ac62 Cb cal Cu con Hvy shower
13	86	6	28	05	11	13.8	5.0	55	5.1	1018.6	8	003	03	1	1	2	1	5	0	1	82828	85080		13	COTRA Cu hum
14	86	6	31	05	11	14.1	5.3	55	5.4	1016.7	0	001	01	2	2	1	2	6	4	1	81832	85075		14	1Ac65 COTRA Cu hum/med
15	86	1	01	05	10	15.0	5.1	51	5.4	1012.1	8	004	03	0	0	1	8	6	3	1	81835			15	1Sc50 1Ac59 1Ci78 Cu hum Sc cas
16	82	5	06	04	08	16.0	7.0	55	6.4	1011.9	1	003	03	1	1	3	8	6	6	0	81835	83645		16	2Ac58 Cu med Sc cas
17	84	7	21	05	12	16.8	8.1	57	6.8	1012.7	8	001	03	2	2	1	1	6	0	6	81832	87080		17	2Cs75 COTRA Cu hum Halo 22° part
18	70	8	22	10	18	15.4	10.5	73	8.0	1012.5	2	002	60	6	2	6	8	5	2	/	84822	83645	88458	18	Cu hum
19	84	3	27	11	23	16.8	6.3	50	6.1	1008.7	2	025	03	0	0	3	8	6	0	0	83835			19	1Sc45
20	82	7	23	08	14	16.2	9.7	65	7.4	1018.0	2	009	03	2	2	2	2	5	3	8	82822	85365	87270	20	Cu med
21	60	8	20	05	09	15.8	14.9	95	10.5	1017.4	6	005	20	6	5	8	5	3	/	/	83708	86710	88615	21	Absent 21-22 Vis&cld est
22	82	5	24	13	28	17.8	10.0	60	7.6	1009.1	3	009	03	1	1	5	1	6	0	0	85830			22	
23	84	7	28	04	10	16.2	6.4	52	6.0	1020.4	0	008	03	2	2	1	1	6	0	2	81835	87075		23	1Cc70 COTRA Cu hum u/a cont
24	84	7	13	06	11	19.1	5.6	41	5.6	1018.6	8	008	02	1	1	1	5	7	3	1	81650	87075		24	1Ac64 COTRA Sc cas U/a+l/a cont
25	80	5	24	11	21	18.8	10.1	57	7.9	1014.1	2	008	03	1	1	5	8	6	0	0	83830	83645		25	Cu hum/med
26	77	2	24	08	15	15.8	8.8	63	7.2	1020.5	7	002	03	1	1	2	2	5	0	1	82828			26	1Ci75 Cu med
27	82	7	26	07	15	16.9	11.4	70	8.3	1018.6	1	006	03	1	1	7	8	5	3	/	86822	87630		27	/Ac65 Cu hum
28	82	4	26	09	20	18.2	10.9	62	8.3	1018.0	2	006	03	1	1	4	8	5	0	0	84825			28	1Sc35 Cu med
29	75	7	24	08	16	17.4	10.8	65	8.0	1017.4	8	006	03	2	2	7	8	5	/	/	82825	87650		29	Cu med
30	80	7	25	05	11	16.9	9.3	61	7.5	1021.4	0	001	03	1	1	1	2	6	0	1	81830	87080		30	2Cs77 COTRA Cu hum/med

Mean vis = 31.6 km  
 Mean cloud = 5.6 70%  
 Mean wind speed = 6.1 kn  
 Mean gust = 13 kn  
 Mean TT = 16.3 °C  
 Mean TdTd = 9.3 °C  
 Mean RH = 61.7 %  
 Mean r = 7.6 g/kg  
 Mean PPP = 1017.2 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.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for JUNE 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks								
1	62	7	35	03	07	19.4	11.6	61	8.3	1014.0	6	013	02	2	2	6	8	5	3	1	82828	85640	1	2Ac62 /Ci75	Cu med			
2	58	8	07	04	08	17.0	13.5	80	9.7	1012.2	7	010	21	6	2	8	5	4	/	/	81715	88618	2					
3	50	8	30	07	15	14.1	12.6	91	9.1	1014.4	2	019	58	6	5	2	7	3	2	/	82707	88520	3					
4	81	3	24	05	14	18.3	6.9	47	5.9	1016.7	7	004	02	1	1	2	4	6	0	1	82848		4	1Sc50	2Ci75	Cu hum		
5	78	3	21	05	12	20.2	8.6	47	6.4	1015.8	8	006	01	1	1	2	8	6	0	1	82845		5	1Sc56	2Ci75	Cu med		
6	82	7	32	05	13	19.3	7.9	47	6.5	1016.8	6	006	03	2	2	2	2	6	7	6	82845	85272	6	1Ac57	2As68 /Ci78			
7	75	5	35	06	12	19.7	9.1	50	7.5	1019.3	7	002	03	1	1	3	2	6	6	2	83840		7	1Ac57	2Ci75	COTRA	Cu con	
8	75	6	02	05	13	23.9	11.7	46	8.2	1023.1	5	003	02	1	1	2	2	7	0	1	82850	85078	8			Cu med		
9	75	5	30	04	09	24.6	10.9	42	8.1	1024.6	7	014	02	2	2	1	2	7	0	1	81850	85078	9			COTRA	Cu med	
10	81	2	35	06	14	21.5	10.8	50	8.2	1023.4	6	013	02	0	0	1	1	6	0	1	81838		10	2Ci75	COTRA	Cu hum		
11	86	7	31	07	17	18.5	8.7	53	6.8	1022.3	7	019	03	2	2	7	8	6	/	1	83840	86645	11	/Ci78	COTRA	Cu hum/med		
12	82	6	01	05	10	14.8	7.0	59	6.3	1018.6	0	005	15	2	2	2	8	6	7	/	81832	86358	12	2Sc56	Cu med	jpNE		
13	84	7	32	04	13	14.9	5.1	52	5.3	1017.2	6	006	02	2	2	7	8	6	/	/	82840	83650	87657	13			Cu med	
14	86	4	25	07	16	18.4	5.3	42	5.3	1014.9	6	012	02	1	1	4	8	7	0	0	83850		14	2Sc57		Cu med		
15	84	4	31	04	08	17.1	4.0	42	4.9	1010.5	7	010	02	1	1	3	2	7	6	0	83850		15	2Ac59		Cu med		
16	86	6	23	04	07	18.9	4.2	38	5.2	1010.8	7	008	02	1	1	2	2	7	6	1	82850	85078	16	2Ac58	1Ac60	Cu med		
17	84	4	33	09	18	19.5	4.2	36	5.6	1011.4	6	004	02	1	1	2	8	7	0	1	82850		17	1Sc56	2Ci78	COTRA	Cu med	
18	84	8	22	13	26	17.5	8.8	56	7.1	1011.6	8	004	02	2	2	4	8	6	7	/	83832	88465	18	2Sc50	1Ac60			
19	86	2	26	13	29	20.0	4.9	37	5.4	1011.4	1	012	02	0	0	2	2	7	0	0	82850		19			Cu med		
20	84	7	26	07	14	17.2	8.6	57	7.1	1018.3	3	001	03	2	2	5	8	6	1	/	83832	83650	87465	20	Absent	20-22	Vis&cld	est
21	75	8	20	10	18	17.6	14.1	80	10.0	1016.0	7	007	02	6	2	8	5	4	/	/	85615	88625	21					
22	84	3	24	14	28	19.6	6.0	41	5.7	1011.1	3	006	02	1	1	3	1	7	0	0	83850		22					
23	86	4	27	05	11	19.2	5.4	40	5.5	1019.9	7	004	02	1	1	4	4	7	0	0	82850	83656	23			Cu hum		
24	82	7	14	04	11	22.6	8.1	40	6.5	1015.9	7	014	03	2	2	3	1	7	3	1	83850	84367	86075	24	COTRA	Halo	22°	part
25	80	3	26	13	26	21.1	7.9	42	6.5	1015.7	2	008	02	1	1	3	8	6	0	0	82845		25	1Sc56		Cu hum/med		
26	81	7	23	10	21	20.1	8.1	46	6.6	1018.2	6	012	02	1	1	1	1	6	0	1	81848	87080	26	2Ci72	COTRA	Cu hum	U/a cont, lower bri patch	
27	62	7	22	10	21	18.0	13.4	74	9.6	1018.2	7	008	80	6	2	7	8	5	/	/	82820	85635	87656	27				
28	81	5	26	09	18	21.6	9.7	47	7.4	1017.9	6	004	02	1	1	5	5	6	0	0	85645		28					
29	82	7	26	09	19	19.2	10.7	58	7.9	1017.0	7	001	80	8	2	7	8	6	/	/	82835	87650	29			Cu med		
30	84	4	22	07	14	21.3	7.7	42	6.2	1020.4	8	009	01	1	1	1	1	7	0	1	81850	84080	30			COTRA		

Mean vis = 38.2 km  
 Mean cloud = 5.5 68%  
 Mean wind speed = 7.1 kn  
 Mean gust = 15 kn  
 Mean TT = 19.2 °C  
 Mean TdTd = 8.5 °C  
 Mean RH = 51.4 %  
 Mean r = 7.0 g/kg  
 Mean PPP = 1016.6 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.



June 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	15.60	19.6	1459	12.8	2358	79.20	95.5	519	55.2	1513	11.85	8.60	9.7	651	7.5	1513	1015.00	1017.0	0	1013.1	1736	0.5
2	15.05	18.8	1326	11.6	116	87.40	95.8	2352	66.1	1327	12.91	9.24	10.6	1826	7.9	116	1012.82	1014.4	110	1010.2	2357	2.7
3	14.09	15.3	718	12.0	2246	93.10	96.8	418	87.7	1732	13.00	9.31	10.5	718	7.9	2124	1012.87	1016.7	2235	1009.6	325	28.7
4	14.49	19.6	1441	9.0	2356	71.40	93.9	522	35.1	1355	8.77	7.01	8.5	1215	4.7	1355	1017.02	1018.1	2149	1016.0	1716	0.6
5	14.30	20.3	1425	6.5	354	70.40	97.5	713	40.7	1633	8.25	6.76	8.5	817	5.7	1655	1016.78	1018.0	112	1015.3	1643	0.0
6	14.42	20.0	1532	8.3	429	72.40	94.6	437	42.9	1615	9.04	7.12	8.3	1034	6.0	1700	1017.34	1019.0	2358	1016.2	1633	0.0
7	15.31	20.4	1517	8.9	344	66.61	88.9	46	41.1	1308	8.82	7.01	8.5	2332	5.6	1159	1019.83	1021.7	2314	1018.8	1	0.0
8	18.50	25.2	1418	13.1	2344	68.20	92.7	2346	39.7	1506	12.08	8.65	10.5	1912	7.5	1400	1023.31	1025.8	2343	1021.0	126	0.0
9	18.76	25.7	1546	10.2	359	65.07	96.5	452	33.5	1122	11.01	8.07	10.6	1352	6.0	1122	1025.12	1026.3	745	1023.5	1736	0.0
10	17.52	22.7	1558	10.8	2345	66.61	96.4	522	39.2	1846	10.63	7.92	10.2	558	5.7	1922	1024.17	1025.3	1047	1022.2	1729	0.0
11	15.42	19.9	1435	9.1	355	65.39	91.3	357	44.8	1054	8.68	6.90	8.2	1306	5.9	1054	1022.99	1025.2	26	1019.0	2352	0.6
12	12.43	15.9	1506	10.2	321	78.20	94.8	358	52.8	1155	8.58	6.89	8.2	913	5.5	1155	1018.43	1020.0	2151	1017.0	429	10.8
13	12.36	16.5	1312	6.8	325	67.82	96.5	347	39.1	1306	6.10	5.83	7.0	0	4.3	1240	1018.00	1019.6	26	1016.5	1654	0.0
14	13.69	19.3	1445	8.0	446	61.64	90.1	239	36.0	1616	5.99	5.80	7.2	1923	4.5	1616	1015.36	1017.2	22	1013.1	2333	0.0
15	13.47	18.2	1508	6.8	422	62.41	94.3	448	37.1	1509	5.87	5.78	7.3	2144	4.4	911	1011.40	1013.2	1	1009.7	1831	0.0
16	13.47	19.6	1448	6.2	336	66.64	95.6	423	31.5	1354	6.63	6.09	7.6	703	4.2	1354	1011.62	1013.1	2359	1010.6	1515	0.0
17	15.28	20.5	1506	10.7	412	62.57	88.6	414	30.9	1543	7.66	6.53	7.8	738	4.4	1544	1012.48	1013.6	2337	1011.3	1505	0.0
18	15.04	19.1	1227	11.1	153	68.85	85.0	159	50.6	1227	9.24	7.25	8.5	926	6.5	2031	1011.27	1013.5	47	1006.3	2349	0.1
19	16.02	20.7	1437	11.5	2339	60.08	93.1	349	30.6	1356	7.47	6.55	9.5	408	4.5	1356	1010.01	1016.1	2339	1003.9	306	1.6
20	14.32	18.4	1322	10.8	447	71.20	85.9	450	48.9	1330	9.03	7.10	8.6	1703	6.2	1330	1018.00	1019.9	2119	1015.8	29	0.1
21	15.86	19.6	1236	11.8	407	85.10	95.9	558	68.5	1350	13.30	9.49	10.9	1233	6.9	2	1016.13	1019.4	33	1011.0	2357	3.7
22	17.06	20.6	1325	11.3	2358	62.87	91.5	339	35.5	1418	9.42	7.55	10.9	130	5.0	1649	1011.21	1016.3	2343	1008.1	644	0.1
23	15.30	21.2	1415	9.5	351	62.36	90.8	2359	34.7	1419	7.47	6.39	8.1	1224	5.1	1248	1019.38	1020.7	1043	1015.9	0	0.0
24	16.64	23.3	1541	7.9	358	62.97	95.8	442	34.4	1014	8.57	6.90	8.7	1538	5.2	945	1017.03	1019.9	0	1014.0	1852	0.0
25	16.97	21.6	1505	11.6	2359	62.31	86.5	21	39.8	1455	9.32	7.29	9.3	1008	5.4	1932	1015.69	1020.4	2355	1013.1	311	0.0
26	15.62	21.0	1239	9.5	435	67.42	89.6	443	41.6	1251	9.18	7.18	8.9	2358	6.2	1251	1018.64	1021.0	758	1014.9	2208	0.1
27	16.69	20.0	1402	12.9	426	77.70	91.5	2356	62.4	751	12.72	9.10	11.1	1127	7.6	818	1017.53	1019.3	1205	1015.5	0	1.3
28	17.97	21.9	1330	13.4	2357	65.87	91.5	5	42.5	1301	11.08	8.22	10.4	19	6.3	1107	1017.83	1018.9	2226	1016.8	246	0.0
29	16.17	21.1	1224	11.3	2359	67.47	86.6	428	46.4	1645	9.89	7.54	9.2	1113	5.8	1947	1017.66	1019.8	2351	1016.3	1711	0.0
30	15.99	21.8	1516	8.5	340	66.44	94.8	403	37.4	1518	9.06	7.11	8.5	749	5.6	1326	1020.44	1021.8	644	1019.0	2343	0.0

Total																						50.9
Mean	15.46	20.26		10.07		69.52	92.61		44.22		9.39	7.37	9.06		5.80		1016.84	1019.04		1014.46		
Max	18.76	25.71		13.44		93.10	97.50		87.70		13.30	9.49	11.14		7.93		1025.12	1026.28		1023.48		
Min	12.36	15.33		6.22		60.08	85.00		30.55		5.87	5.78	7.00		4.16		1010.01	1013.08		1003.92		

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