

WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

Lat/Long 51°25'N 00°51'W NGR (SU)798701 Altitude 46m ASL.

Monthly Means and Totals

JULY 2008

Temperature (°C / °F)			Anomaly	Rank in the past 127 years			
Mean maximum	22.0	71.6	-0.5	54 th highest			
Mean minimum	12.4	54.3	+0.4	31 st highest			
Daily mean	17.2	63.0	-0.2	41 st highest			
Highest maximum	28.7	83.7	on 28 th	Lowest maximum	18.0	64.4	on 12 th
Highest minimum	16.6	61.9	on 15 th	Lowest minimum	6.7	44.1	on 4 th
Mean grass minimum	9.3	48.7		Lowest grass minimum	2.0	35.6	on 22 nd
Mean earth @30 cm	18.4	65.1	0.0	Earth @100 cm	17.9	64.2	
Frost duration (hrs)	0.0			Rain duration (hrs)	35.3		
Rainfall total (mm / in)	70.2	2.76	169 %	40 th highest			
Highest daily fall	19.6	0.77	on 9 th				
Number of: Dry days (<0.2mm)	19	Wet days (>0.9mm)	9	days ≥5mm	6		
Sunshine total (hrs)	192.4	Daily mean	6.21	109 %	Sunniest day	14.2	on 30 th
N° days with: Air frost	0	Ground frost	0	Snow falling	0	Snow lying	0
Thunder	5	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0
Nil sun	3						
Air pressure MSL : Mean @09 GMT (mbar/in)	1014.0		-3.4	29.94			
Absolute highest	1027.2			30.33		on 22 nd	
Absolute lowest	994.6			29.37		on 7 th	

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

Notes:

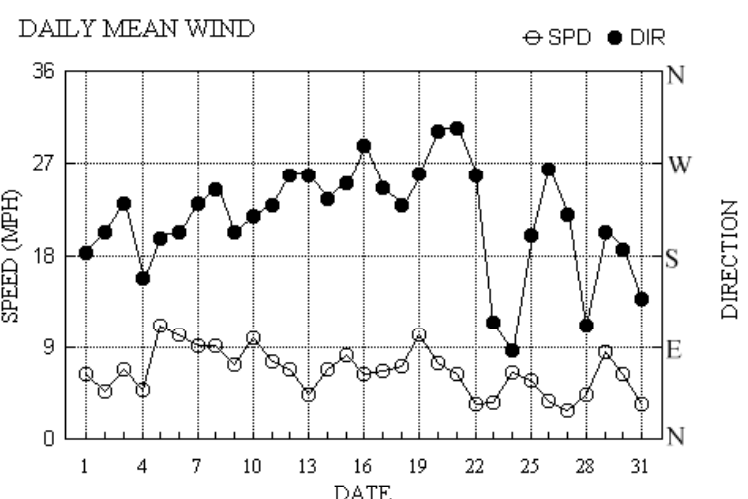
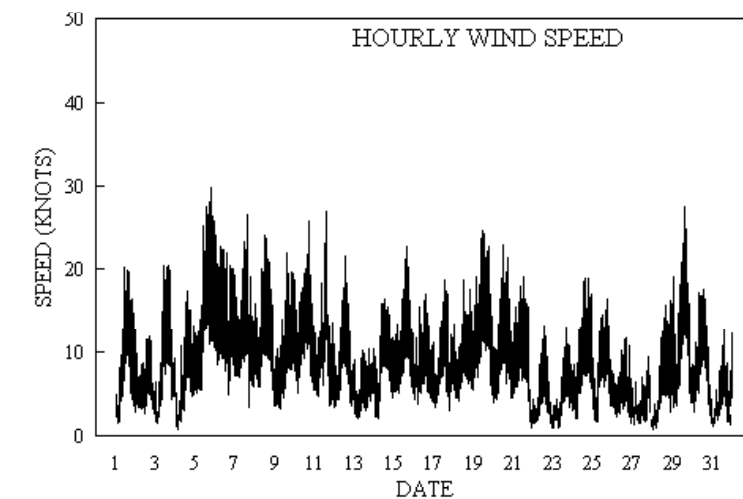
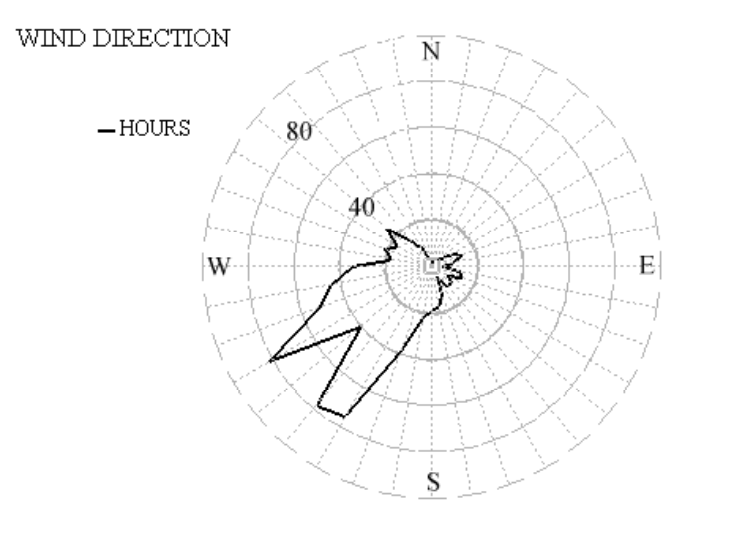
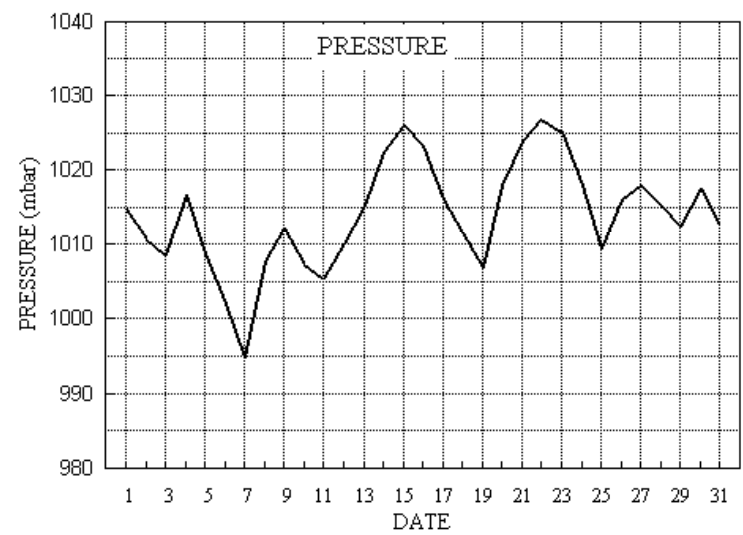
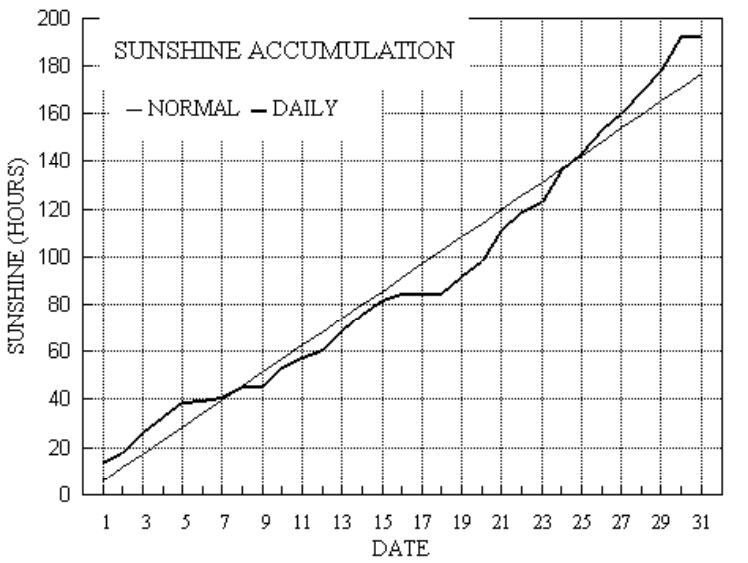
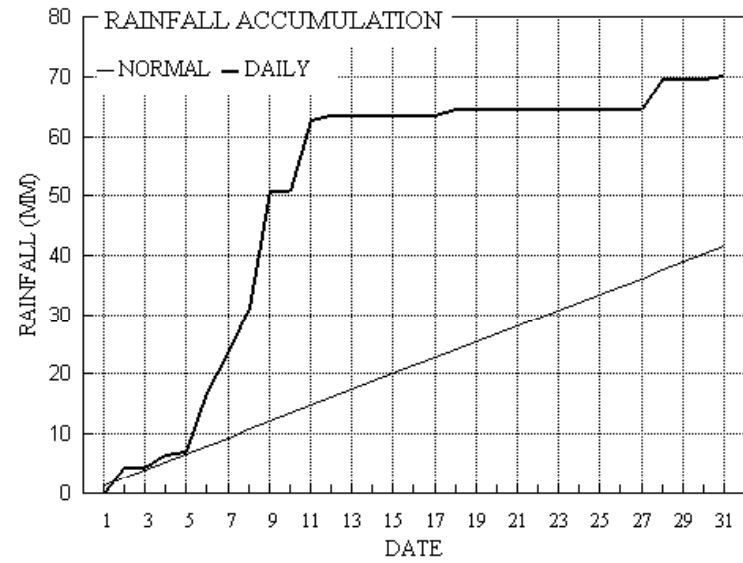
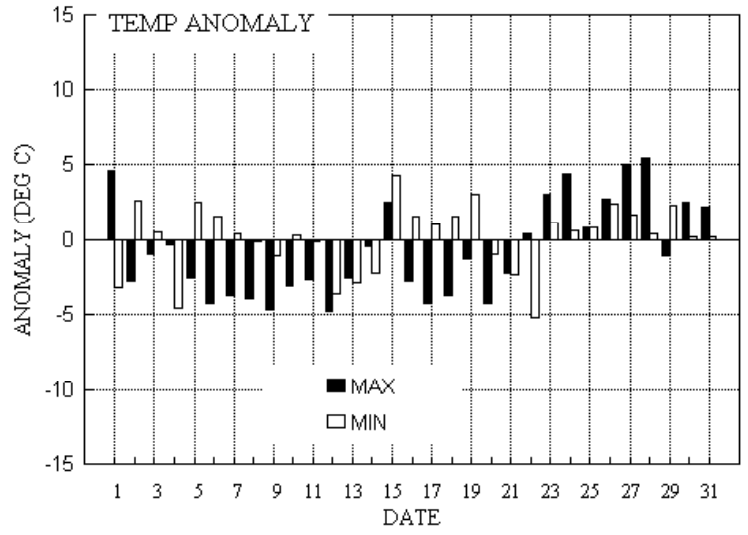
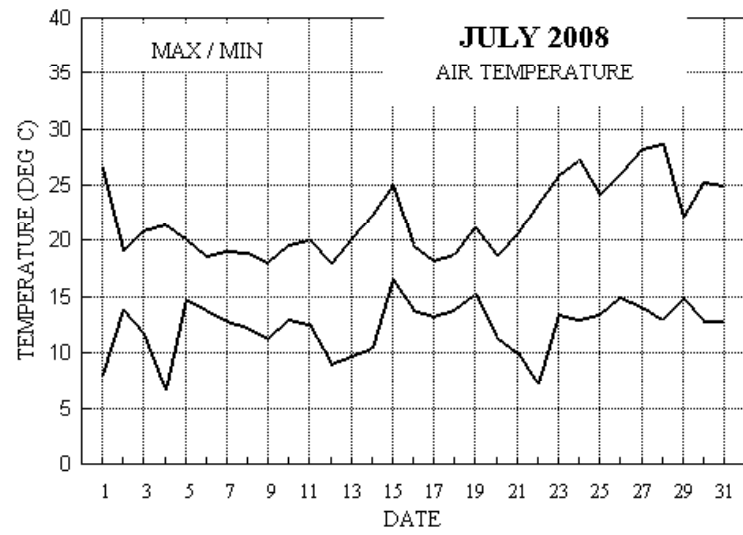
Temperature, Rainfall and Sunshine Above Normal

Temperature: The mean maximum this month is 0.6° above the long-term median, but is 0.7° below the average for the past 33 years in Wokingham. The mean minimum is also 0.6° above the median, but is only 0.1° below the 33 year average. The highest maximum is 0.3° above the median, but 7.1° below the record set in 2006. The lowest max is 1.2° above the median, but is lowest since 2005. The highest min is 0.3° above its median while the lowest min is 0.2° below the median. The lowest grass min of 2.0° is lowest since 1993. Earth temperatures are close to normal. **Rainfall :** Quite a high total for July with only 3 wetter in the past 20 years, though 49 mm less than last year when we had the wettest July since 1957. Most of this month's rain fell between the 6th and 11th, and the period 12th to 27th had only 1.9 mm and 2 dry spells, one of 5 days ending on the 17th and the other of 9 days ending on the 27th. The number of dry days is near normal, but there were 3 more days than average with 5 mm or more. Rainfall duration is 8 hours more than normal. Thunder was recorded on 5 days, the 3rd, 6th, 7th, 28th and 31st. The highest rain rate this month was 177 mm/hr at 1527 GMT on the 7th. **Sunshine :** The sunshine total this July is a little above average, and compared with recent years is 2nd sunniest in the past 9 years after 2006, which holds the July record. There were just 5 days with at least 2/3 of the maximum, but 12 with less than 1/3. 3 days had nil sun, a high value for July. Overall there were 7 days with <3 hours, 18 with =>6 hours, 6 with =>9 hours and 4 with =>12 hours. **Wind :** The overall mean wind speed was 6.6 mph, 0.4 mph above average. The windiest day was the 5th, mean 11.2 mph, and the month's highest gust of 35 mph was also on that day. The least windy day was the 27th, mean speed 2.8 mph, and there were 388 minutes (6.5 hours) with mean speed of 0.5 mph or less. Daily mean direction/number of days : N,0 NE,0 E,2 SE,2 S,6 SW,12 W,7 NW,2. **Humidity :** The overall; mean relative humidity was 69.5 %. The lowest value recorded was 29 % on the 24th. The mean water vapour content per kg of air was 8.5 g at 0900 GMT and 8.0 g at 1500 GMT. **Commentary :** The 1st was a promisingly warm day with an anomaly of +4.6° for max temp. However, the promise was not fulfilled, and the period 2nd to 22nd was dominated by relatively cool conditions, and temperature anomalies between -3° and -5° on many days. It was also very wet from the 6th to the 11th, a 6 day period in which 55.6 mm of rain fell, 79 % of the month's total. Sunshine began not far from normal, but from the 6th to the 18th many days had below normal amounts. Temperatures recovered somewhat from the 23rd on, with an anomaly of +5.4° on the 28th, and this period also experienced the best sunshine of the month, although the 31st was overcast. Apart from the 28th, little rain fell after the 11th. Winds were light or moderate S'ly at first, becoming moderate or fresh SW'ly after the 4th, and veering W'ly by the 13th, a day with light winds. Moderate or fresh W'ly from the 14th to 21st, becoming light or moderate on 22nd, backing E'ly on 23rd, veering W'ly by the 26th, backing E'ly once more by the 28th, veering fresh S'ly on the 29th, dropping light SE'ly by the 31st.

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

1 st to the 10 th				11 th to the 20 th				21 st to the 31 st			
-2.2°	-0.1°	381 %	93 %	-2.4°	+0.2°	104 %	79 %	+2.1°	+0.2°	37 %	149 %

Wokingham climatological graphs for July 2008



Month: JULY 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	26.5	8.1	tr	3.6	18.3	17.5	13.7	0.0	1014.7	0 0 0 0	0 0 0 0	0 0 0 0	182	4.9	5.5	141	20	1055	197	10	14	0.0	
2	19.1	13.9	4.6	10.0	18.8	17.6	4.3	0.0	1010.7	0 0 0 0	0 0 0 0	0 0 0 0	203	3.7	4.1	227	13	0040	214	6	18	2.0	
3	20.9	11.8	0.0	7.5	18.3	17.7	8.1	0.0	1008.6	0 0 0 0	1 0 0 0	0 0 0 0	230	4.9	5.9	270	21	1500	244	10	14	0.0	
4	21.5	6.7	2.0	2.6	18.2	17.7	7.0	0.0	1016.7	0 0 0 0	0 0 0 0	0 0 0 0	158	3.4	4.2	152	18	1416	178	8	13	1.5	
5	20.2	14.9	0.5	12.8	18.4	17.7	5.5	0.0	1008.7	0 0 0 0	0 0 0 0	0 0 0 0	196	8.3	9.7	211	30	1838	216	14	15	0.6	
6	18.6	13.9	9.7	12.1	18.4	17.8	0.9	0.0	1002.1	0 0 0 0	1 0 0 0	0 0 0 0	202	8.7	8.9	208	24	0019	196	11	01	5.0	
7	19.1	12.8	7.1	11.3	17.9	17.8	1.6	0.0	994.9	0 0 0 0	1 0 0 0	0 0 0 0	231	7.4	7.9	226	27	1457	241	11	10	1.0	
8	18.9	12.3	7.3	10.0	17.8	17.8	4.4	0.0	1007.7	0 0 0 0	0 0 0 0	0 0 0 0	244	7.9	8.0	259	24	1133	245	11	15	4.9	
9	18.1	11.3	19.6	7.3	17.9	17.7	0.0	0.0	1012.2	0 0 0 0	0 0 0 0	0 0 0 0	203	5.9	6.3	204	22	1534	212	10	17	12.7	
10	19.7	13.0	tr	10.9	17.7	17.7	7.9	0.0	1007.4	0 0 0 0	0 0 0 0	0 0 0 0	218	8.5	8.5	199	26	1626	217	13	16	0.0	
11	20.1	12.6	11.9	10.3	17.9	17.7	3.9	0.0	1005.4	0 0 0 0	0 0 0 0	0 0 0 0	229	6.0	6.5	212	27	1422	217	12	14	3.5	
12	18.0	9.1	1.0	5.5	17.9	17.7	3.6	0.0	1010.0	0 0 0 0	0 0 0 0	0 0 0 0	258	5.6	6.0	287	22	1356	247	10	12	0.3	
13	20.2	9.8	0.0	6.0	17.9	17.7	7.7	0.0	1015.1	0 0 0 0	0 0 0 0	0 0 0 0	259	2.9	3.7	259	11	1719	239	6	23	0.0	
14	22.3	10.5	0.0	6.9	18.1	17.7	7.5	0.0	1022.3	0 0 0 0	0 0 0 0	0 0 0 0	235	5.7	5.9	243	17	1233	237	9	13	0.0	
15	25.0	16.6	0.0	16.1	18.6	17.7	6.1	0.0	1026.0	0 0 0 0	0 0 0 0	0 0 0 0	250	7.0	7.2	267	23	1400	260	10	16	0.0	
16	19.7	13.8	tr	11.3	18.9	17.8	2.4	0.0	1023.3	0 0 0 0	0 0 0 0	0 0 0 0	287	5.1	5.5	290	17	1337	293	9	13	0.0	
17	18.3	13.3	tr	10.6	18.7	17.9	0.2	0.0	1016.0	0 0 0 0	0 0 0 0	0 0 0 0	246	5.6	5.8	261	19	1247	249	9	12	0.0	
18	18.8	13.8	0.9	12.8	18.2	17.9	0.0	0.0	1011.5	0 0 0 0	0 0 0 0	0 0 0 0	229	6.1	6.2	218	19	1138	231	9	11	1.4	
19	21.2	15.3	0.0	13.8	18.2	17.9	6.9	0.0	1006.9	0 0 0 0	0 0 0 0	0 0 0 0	260	8.3	8.9	271	25	1052	267	12	10	0.0	
20	18.6	11.4	0.0	7.7	18.2	17.9	6.9	0.0	1018.0	0 0 0 0	0 0 0 0	0 0 0 0	302	6.3	6.5	300	23	1227	303	9	12	0.0	
21	20.7	10.1	0.0	6.6	17.6	17.9	12.6	0.0	1023.8	0 0 0 0	0 0 0 0	0 0 0 0	305	5.2	5.5	335	19	1221	301	8	07	0.0	
22	23.3	7.2	0.0	2.0	17.5	17.8	7.8	0.0	1026.8	0 0 0 0	0 0 0 0	0 0 0 0	258	2.5	2.9	235	13	1344	266	6	13	0.0	
23	25.9	13.5	0.0	9.7	18.0	17.8	4.1	0.0	1025.2	0 0 0 0	0 0 0 0	0 0 0 0	114	2.2	3.0	162	13	1651	114	5	18	0.0	
24	27.3	13.0	0.0	7.6	18.4	17.8	13.1	0.0	1017.8	0 0 0 0	0 0 0 0	0 0 0 0	86	5.2	5.6	110	19	1416	78	8	18	0.0	
25	24.1	13.4	0.0	9.2	18.8	17.9	7.1	0.0	1009.5	0 0 0 0	0 0 0 0	0 0 0 0	200	3.4	5.0	223	17	1622	215	8	16	0.0	
26	26.0	15.0	0.0	13.1	19.0	18.0	10.5	0.0	1015.9	0 0 0 0	0 0 0 0	0 0 0 0	265	3.0	3.3	264	12	1543	253	6	15	0.0	
27	28.3	14.2	0.0	10.3	19.4	18.1	6.6	0.0	1017.8	0 0 0 0	0 0 0 0	0 0 0 0	219	1.0	2.4	217	10	1812	213	5	18	0.0	
28	28.7	13.0	5.2	8.8	19.7	18.2	9.1	0.0	1015.1	0 0 0 0	1 0 0 0	0 0 0 0	111	2.4	3.7	247	17	2006	100	7	15	1.9	
29	22.2	14.9	tr	13.2	19.9	18.4	8.7	0.0	1012.5	0 0 0 0	0 0 0 0	0 0 0 0	203	7.3	7.4	201	28	1549	204	12	15	0.0	
30	25.3	12.9	0.0	9.6	19.4	18.5	14.2	0.0	1017.5	0 0 0 0	0 0 0 0	0 0 0 0	185	5.2	5.5	210	18	1346	206	9	13	0.0	
31	25.0	12.9	0.4	9.7	19.6	18.6	0.0	0.0	1012.6	0 0 0 0	1 0 0 0	0 0 0 0	138	2.0	2.9	188	13	1415	201	6	14	0.5	
Total			70.2				192.4	0.0															35.3
Mean	22.0	12.4		9.3	18.4	17.9	6.21	0.0	1014.0					227	3.8	5.7							
Anom	-0.5	+0.1	169%		+0.0	+1.7	109%																
Daily mean		17.2																					
Anom		-0.2																					

Number of days with:

Air frost = 0 Ground frost = 0 Nil sun = 3
 Snow falling = 0 Snow lying = 0 Thunder = 5
 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.
 Anom = Departure from 1971-2000 climatological average.
 All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for July 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks											
1	82	1	16	08	13	20.3	8.2	46	6.9	1014.7	7	015	02	0	0	1	0	9	3	1	81370	1	1Ci80	COTRA	Ac	str	vir				
2	80	8	19	04	09	16.8	10.5	66	7.9	1010.7	3	011	14	2	2	1	1	5	7	7	81822	85362	87365	2	8Cs70	Cu	fra	jp	SE		
3	80	2	20	07	15	17.9	11.8	67	8.9	1008.6	2	007	03	8	1	2	2	5	6	3	82825			3	1Ac58	1Ci70	Cu	con			
4	86	4	19	02	07	16.7	8.7	59	6.7	1016.7	0	002	03	0	0	3	2	6	3	0	83830			4	2Ac68	Cu	med				
5	75	3	20	07	16	18.1	12.9	72	9.1	1008.7	1	009	25	8	6	3	8	5	0	0	82820			5	2Sc40	Cu	med				
6	65	7	18	10	22	14.8	11.1	78	8.3	1002.1	7	015	60	6	2	7	8	4	7	/	81818	83822	85635	6	7Ac60	Cu	fra/hum				
7	25	8	22	11	20	13.7	12.1	90	8.9	994.9	7	008	59	8	6	7	5	4	2	/	83712	87615	88530	7							
8	78	6	25	10	20	16.4	9.1	62	7.0	1007.7	2	021	03	8	2	3	8	5	3	0	82828	85358		8	2Sc50	Cu	med				
9	35	8	16	05	11	13.8	12.6	93	9.1	1012.2	7	010	63	6	6	7	7	2	2	/	82705	87707	88530	9							
10	80	4	24	08	17	17.7	11.8	68	8.7	1007.4	4	000	02	1	1	4	8	5	0	1	83822			10	1Sc35	1Ci78	Cu	med	COTRA		
11	65	7	24	06	18	15.9	11.9	77	8.8	1005.4	7	002	80	8	1	7	8	5	3	/	85820	84640		11	/Ac58	Cu	med				
12	86	7	27	09	16	13.7	7.5	66	6.4	1010.0	1	008	03	2	2	7	8	5	/	/	81825	87656		12	2Sc45	Cu	med				
13	88	2	33	04	09	16.5	7.5	55	6.1	1015.1	2	012	03	0	0	2	8	6	0	0	82835			13	1Sc56	Cu	hum/med				
14	86	1	23	09	16	18.6	10.8	61	8.5	1022.3	1	007	03	0	0	1	8	6	0	0	81830			14	1Sc56	Cu	fra/hum				
15	72	8	24	07	12	19.3	15.6	79	10.7	1026.0	0	002	02	2	2	8	5	4	/	/	85615	88635		15							
16	84	6	28	05	12	16.9	9.4	61	7.2	1023.3	8	002	02	2	2	1	2	5	8	1	81828	85365		16	2Ac65	1Ci75	Cu	med	Ac	cas	vir
17	84	8	24	07	14	14.7	10.4	75	7.8	1016.0	6	007	02	6	2	7	8	5	7	/	81820	87650	88357	17	Cu	fra					
18	70	8	23	05	11	16.1	12.3	78	8.9	1011.5	2	002	02	2	2	8	8	4	/	/	81815	88635		18	Cu	fra/hum					
19	84	6	25	09	20	18.3	12.4	68	9.2	1006.9	2	004	01	2	2	6	8	5	0	0	82825	85650		19	Cu	med					
20	88	2	31	07	16	15.4	5.6	52	5.6	1018.0	2	010	03	1	1	2	2	6	0	0	82835			20	Cu	med					
21	84	3	30	07	18	14.3	6.8	61	6.2	1023.8	2	010	03	0	0	3	2	5	0	1	83828			21	1Ci78	Cu	med				
22	83	1	28	03	09	18.5	10.6	60	7.9	1026.8	0	002	03	0	0	1	8	5	0	1	81828			22	1Sc30	1Ci80	COTRA	Cu	hum	Sc	len
23	59	7	12	02	04	20.0	15.5	75	10.6	1025.2	0	003	05	2	2	7	5	6	/	/	87640			23							
24	60	5	07	05	13	21.0	14.8	68	10.7	1017.8	7	014	05	2	2	0	0	9	0	1	82078	84081		24	COTRA						
25	72	7	17	08	12	20.7	12.7	60	9.2	1009.5	3	001	02	2	2	3	0	9	8	2	81361	83367	85075	25	COTRA	Ac	cas	vir			
26	68	7	33	02	06	20.5	12.7	61	9.1	1015.9	2	007	02	2	2	1	0	9	3	1	81362	87080		26	COTRA	Parhelia+L/a	cont	faint			
27	66	3	03	01	04	22.0	14.1	61	9.8	1017.8	2	004	01	1	1	1	5	7	0	1	81656	83075		27	COTRA						
28	65	5	10	03	08	23.0	15.2	61	10.9	1015.1	8	008	03	1	1	5	0	9	8	0	81358	85362		28							
29	81	5	20	06	13	18.3	13.8	75	9.8	1012.5	1	004	03	1	1	5	8	4	0	0	82818	84640		29	Cu	med					
30	84	7	20	09	17	21.2	12.0	56	8.7	1017.5	0	004	03	2	2	1	1	6	3	1	81832	87075		30	1Ac68	COTRA	Cu	hum			
31	61	8	19	03	07	20.9	14.1	65	10.0	1012.6	6	004	02	2	2	8	0	9	8	/	81358	85362	88468	31	Ac	cas					

Mean vis = 32.6 km
 Mean cloud = 5.3 66%
 Mean wind speed = 6.1 kn
 Mean gust = 13 kn
 Mean TT = 17.8 °C
 Mean TdTd = 11.4 °C
 Mean RH = 67.0 %
 Mean r = 8.5 g/kg
 Mean PPP = 1014.0 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 July 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	NCh	shs	NCh	shs	Date	Remarks
1	82	4	20	09	20	25.3	10.7	40	8.1	1010.1	8	020	02	0	0	1	1	7	4	2	81850	84070		1	1Ac60 1Cc72 1Ci78 COTRA Cu hum	
2	65	7	18	04	12	15.8	12.3	79	8.7	1010.1	0	005	61	6	2	2	8	5	7	/	81820	83360	87365	2	2Sc57 Cu med Clearance SW	
3	70	4	25	10	20	20.5	8.0	44	6.5	1010.3	3	010	15	1	1	2	9	6	6	3	81935	82840	83075	3	1Ac58 1Ci70 jpS vv70k ex p	
4	84	5	18	07	17	19.4	5.9	41	5.9	1014.8	7	013	03	1	1	1	2	7	8	1	81850	83368		4	1Ac60 3Ci78 COTRA Cu med Ac cas vir	
5	82	4	21	14	26	18.7	6.8	46	6.0	1009.1	0	002	03	1	1	3	8	6	3	0	82845			5	2Sc56 1Ac63 Cu med	
6	30	8	24	07	22	12.9	11.0	88	8.2	1000.9	3	005	92	9	8	6	9	5	2	/	83925	84630	88540	6		
7	58	7	23	11	25	18.1	12.9	72	9.2	997.8	2	012	17	9	8	3	9	5	6	3	82925	82830	85070	7	1Ac58 COTRA tE jp all quads	
8	84	6	25	10	24	17.8	6.5	48	6.3	1010.0	1	005	15	8	2	4	8	6	3	0	84845	83358		8	1Sc56 Cu med jp SW&SE	
9	56	8	21	08	15	17.0	15.7	92	11.1	1009.6	7	008	63	6	6	7	7	3	2	/	83707	87709	88520	9		
10	75	6	21	11	21	18.5	11.1	62	8.2	1006.3	8	011	25	8	2	6	8	6	0	0	82830	85657		10	Cu med jp N	
11	40	7	26	12	27	14.5	11.1	80	8.3	1004.6	5	000	81	8	2	7	9	5	6	/	82925	84830		11	3Sc50 /Ac58	
12	75	6	27	09	18	16.9	7.8	55	6.4	1010.4	0	004	25	8	2	4	8	6	3	0	82835	83650		12	1Ac58 2Ci75 Cu med jp vs quad VV60k ex p	
13	88	7	27	02	08	19.3	5.2	40	5.3	1016.0	3	004	02	2	2	7	8	6	/	1	81848	87656		13	3Ci78 Cu hum/med	
14	88	8	25	08	15	20.6	12.1	58	9.0	1023.7	2	004	03	1	1	8	8	6	/	/	81835	87638	88650	14	Cu hum	
15	86	1	25	10	17	24.8	13.1	48	9.2	1024.0	7	013	01	1	1	1	1	6	0	1	81840			15	1Ci80 Cu hum	
16	84	7	30	07	15	19.4	8.5	49	6.7	1021.5	7	011	03	2	2	4	8	6	3	8	83840	83270	87075	16	2Sc45 2Ac65	
17	75	7	26	05	17	16.7	11.4	71	8.3	1013.1	7	012	21	6	2	7	8	5	7	/	82825	86640	87359	17	Cu med.	
18	80	8	22	07	15	18.0	14.7	81	10.2	1010.6	7	007	21	6	2	8	8	4	/	/	81815	83630	88645	18	Cu med	
19	88	3	26	11	21	20.0	10.2	53	7.6	1009.4	1	014	02	1	1	3	8	6	0	0	82840			19	2Sc56 Cu med	
20	88	7	30	08	20	17.3	3.7	40	5.0	1018.9	2	005	02	2	2	7	8	6	/	/	81848	83656	87657	20	Cu med	
21	84	6	31	06	15	19.5	6.7	43	5.9	1024.2	2	002	01	1	1	1	4	6	0	1	81848	86080		21	1Sc50 COTRA Cu hum	
22	82	5	27	05	12	22.4	12.4	53	8.7	1025.3	7	009	03	1	1	2	8	6	3	0	82835	84358		22	1Sc40 Cu hum	
23	75	7	12	04	11	24.9	13.0	48	8.9	1022.7	7	013	02	2	2	7	8	6	/	/	81845	83648	87650	23	Cu hum	
24	81	5	11	07	19	27.1	8.5	31	6.9	1014.3	7	026	01	1	1	1	1	7	0	1	81850	85080		24	1Ci75 COTRA Cu hum	
25	78	5	21	07	15	24.0	13.8	53	9.9	1010.0	2	002	02	2	2	4	8	6	0	1	84835			25	1Sc45 2Ci80 COTRA Cu med	
26	78	5	27	05	12	25.3	13.4	47	8.7	1015.5	8	003	01	2	2	4	8	6	3	0	81845	84656		26	2Ac62 Cu med	
27	75	6	06	02	06	26.5	13.6	45	9.7	1016.3	7	008	03	1	1	2	2	7	6	1	82850	84358		27	2Ci75 Cu med/con	
28	63	6	08	06	14	28.5	14.8	43	10.2	1011.8	7	017	15	8	2	2	2	6	6	/	82845	85363		28	Cu con jpNW Sky turbid	
29	82	5	21	11	25	21.7	11.5	52	8.5	1013.5	1	005	01	2	2	2	8	6	3	1	82835	83077		29	1Sc45 1Ac68 Cu med	
30	86	3	20	07	16	25.1	8.1	34	6.7	1016.7	6	005	01	1	1	1	1	7	4	1	81856	83080		30	1Ac67 COTRA	
31	65	8	21	06	13	22.7	16.0	66	11.1	1010.8	6	002	60	6	2	1	2	7	7	/	81856	83360	88462	31	Cu med Scgen	

Mean vis = 35.2 km

Mean cloud = 5.8 73%

Mean wind speed = 7.6 kn

Mean gust = 17 kn

Mean TT = 20.6 °C

Mean TdTd = 10.7 °C

Mean RH = 54.9 %

Mean r = 8.0 g/kg

Mean PPP = 1013.3 mbar

WW frequency :

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.

July 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	19.00	26.7	1353	8.1	406	61.58	96.1	512	34.0	1635	10.40	7.86	9.6	2036	6.2	813	1012.69	1019.2	5	1007.8	1838	0.0
2	15.91	19.1	1634	11.5	2300	73.50	89.8	429	52.4	1712	11.04	8.22	9.7	1307	6.8	1806	1009.32	1010.8	834	1007.8	1837	0.9
3	15.94	21.1	1354	11.8	2359	66.47	93.3	503	37.1	1448	9.20	7.29	9.9	702	5.6	1448	1010.27	1015.4	2342	1007.4	337	3.6
4	15.43	21.5	1321	6.9	358	60.79	95.2	450	33.7	1302	7.11	6.26	7.8	1005	5.2	1302	1014.97	1017.3	729	1010.6	2358	0.0
5	17.11	20.4	1413	14.7	642	60.51	89.6	706	39.2	1612	9.09	7.26	10.2	731	5.4	1619	1008.59	1010.8	2	1006.8	2350	2.0
6	14.62	18.7	1354	12.7	1502	79.90	91.2	1208	63.8	1354	11.16	8.34	10.5	1241	7.1	1	1001.80	1007.0	4	999.3	1918	8.4
7	14.99	19.2	1321	12.6	49	78.50	90.5	856	56.4	1308	11.22	8.39	10.1	1634	7.2	1524	998.38	1003.5	2357	994.6	846	8.7
8	15.13	19.1	1439	11.4	2307	67.91	88.3	418	40.4	1708	8.91	7.13	8.4	702	5.2	1506	1008.81	1014.0	2322	1003.4	10	0.0
9	14.99	17.5	1300	11.1	14	91.40	93.6	1217	85.2	326	13.62	9.76	11.6	1301	7.2	6	1010.80	1013.9	402	1007.4	2339	24.6
10	16.35	20.0	1520	12.7	439	73.60	91.9	3	54.1	1517	11.41	8.42	10.6	0	7.4	1732	1006.83	1007.8	211	1005.1	1647	0.1
11	15.01	20.0	1226	11.9	2324	81.80	91.3	1830	54.9	1140	11.79	8.65	10.3	937	7.1	2358	1005.38	1008.0	2358	1003.7	1417	11.3
12	13.37	18.1	1328	9.1	449	71.30	93.2	156	43.2	1331	7.94	6.66	8.8	1430	5.1	1033	1010.17	1013.0	2355	1007.7	55	1.1
13	15.27	20.1	1551	9.6	457	66.03	92.7	503	35.9	1552	8.36	6.84	8.2	2259	4.9	1120	1015.73	1020.1	2343	1012.6	46	0.0
14	17.17	22.3	1340	10.2	439	70.60	92.3	449	43.0	1108	11.47	8.35	10.0	1547	6.4	1031	1023.02	1026.1	2316	1019.8	1	0.0
15	19.65	25.1	1519	15.8	2319	72.50	89.3	452	41.2	1628	14.22	9.95	12.2	1320	7.7	1628	1024.91	1026.1	830	1023.4	1816	0.0
16	16.88	19.8	1455	13.7	418	65.27	93.1	420	41.3	1152	9.87	7.55	9.7	9	5.6	1152	1022.08	1024.5	0	1019.4	2358	0.0
17	15.57	18.3	1237	13.2	436	72.20	84.9	443	58.1	1625	10.54	7.88	9.0	1150	6.6	0	1014.85	1019.5	11	1012.2	1817	0.0
18	15.95	18.7	1256	13.6	256	83.30	91.7	1954	70.2	1304	13.12	9.42	11.0	1853	7.7	0	1010.66	1012.8	5	1008.1	2359	1.1
19	17.14	21.3	1615	12.4	2347	64.43	90.0	10	40.9	1616	9.99	7.76	10.2	812	5.3	2152	1009.30	1015.4	2358	1006.3	459	0.0
20	14.72	19.0	1450	11.2	2343	54.95	72.5	435	35.8	1546	5.48	5.57	6.9	851	4.6	1227	1018.58	1022.5	2248	1015.2	2	0.0
21	14.55	20.8	1632	9.2	2330	59.16	89.8	2332	37.3	1634	6.24	5.84	7.7	1214	5.1	516	1024.00	1026.8	2353	1021.9	53	0.0
22	16.51	23.4	1425	7.3	204	71.20	94.0	2351	49.3	1426	10.83	8.04	10.4	1311	5.7	201	1025.97	1027.2	739	1024.5	1922	0.0
23	19.55	25.9	1520	13.3	35	71.20	94.7	48	42.3	1526	13.75	9.65	11.4	1003	8.5	1610	1023.47	1025.8	10	1020.9	1850	0.0
24	20.35	27.4	1447	12.9	338	64.02	94.8	358	28.5	1504	12.31	8.89	11.2	1038	6.3	1530	1016.34	1021.4	9	1011.8	2351	0.0
25	19.20	24.4	1512	13.5	400	70.70	94.8	501	49.6	1510	13.44	9.57	11.6	1020	8.6	835	1010.80	1014.0	2358	1009.0	816	0.0
26	20.41	25.8	1534	14.9	441	63.73	89.7	435	40.2	1656	12.74	9.11	11.0	1418	7.8	1140	1015.48	1017.4	2317	1013.8	0	0.0
27	21.13	28.0	1426	14.1	201	62.05	89.9	210	35.3	1427	12.93	9.21	12.2	1455	7.2	1038	1016.92	1018.0	903	1015.6	1724	0.0
28	21.36	28.8	1347	12.9	442	68.80	94.9	516	40.6	1500	14.77	10.43	13.8	1252	8.6	442	1013.38	1016.7	14	1009.9	1842	2.2
29	17.87	22.4	1538	13.5	2330	71.70	93.9	259	48.6	1550	12.37	8.97	11.4	0	6.8	1932	1013.48	1017.3	2321	1010.8	255	2.8
30	19.32	25.6	1352	12.9	121	60.49	87.4	2347	32.0	1524	10.54	7.90	10.0	732	5.9	1746	1016.88	1017.8	739	1016.1	1623	0.0
31	19.26	25.2	1323	12.9	48	73.90	92.5	2209	51.5	1654	14.26	10.13	12.4	1207	8.2	9	1011.32	1016.5	10	1006.5	2240	0.4
Total																						67.2
Mean	17.09	22.05		11.99		69.47	91.19		45.67		10.97	8.24	10.24		6.56		1013.72	1016.99		1010.95		
Max	21.36	28.84		15.82		91.40	96.10		85.20		14.77	10.43	13.75		8.64		1025.97	1027.22		1024.54		
Min	13.37	17.53		6.93		54.95	72.50		28.52		5.48	5.57	6.91		4.64		998.38	1003.51		994.59		

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