

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

SEPTEMBER 2007

Temperature (°C / °F)			Anomaly	Rank in past 126 years			
Mean maximum	19.3	66.7	+0.4	45 th highest			
Mean minimum	9.5	49.1	-0.2	47 th highest			
Daily mean	14.4	57.9	+0.1	45 th highest			
Highest maximum	23.5	74.3	on 5 th	Lowest maximum	12.7	54.9	on 26 th
Highest minimum	15.0	59.0	on 21 st	Lowest minimum	4.9	40.8	on 15 th
Mean grass minimum	6.0	42.8		Lowest grass minimum	0.9	33.6	on 15 th
Mean earth @30 cm	16.4	61.5	+0.3	Earth @100 cm	17.7	63.9	
Frost duration (hrs)	0.0			Rain duration (hrs)	20.7		
Rainfall total (mm / in)	39.8	1.57	63 %	46 th lowest			
Highest daily fall	12.1	0.48	on 23 rd				
Number of: Dry days (<0.2mm)	22	Wet days (>0.9mm)	5	days ≥5mm	3		
Sunshine total (hrs)	147.2	Daily mean	4.91	112 %	Sunniest day	11.9	on 15 th
N° days with: Air frost	0	Ground frost	0	Snow falling	0	Snow lying	0
Thunder	1	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0
Air pressure MSL : Mean @09 GMT (mbar/in)		1021.8	+5.3	30.17			
Absolute highest		1032.6		30.49		on 6 th	
Absolute lowest		1002.6		29.61		on 24 th	

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

Notes: **Temperature above normal,**

Rainfall below normal,

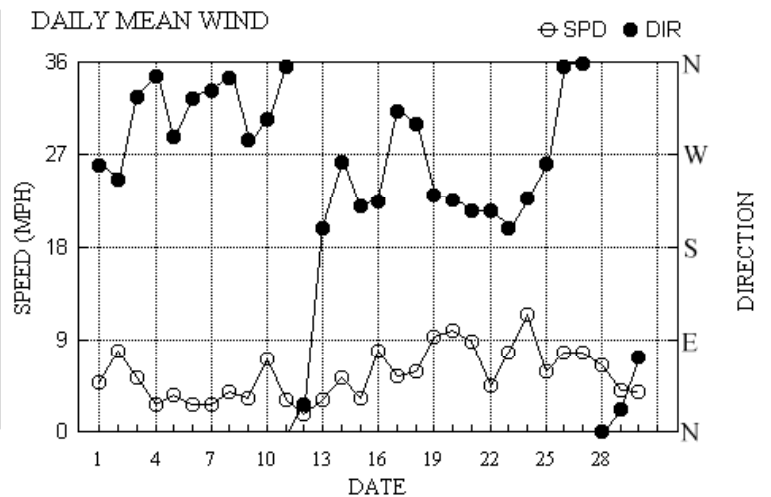
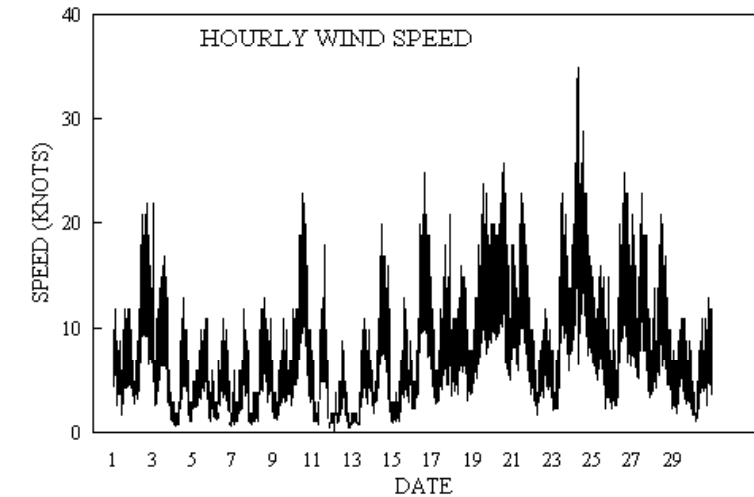
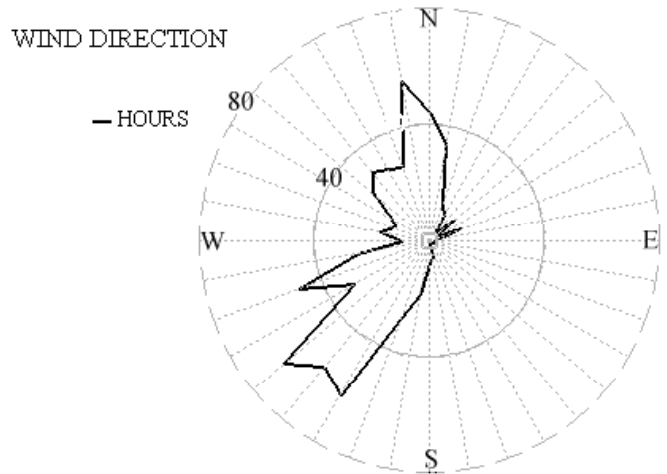
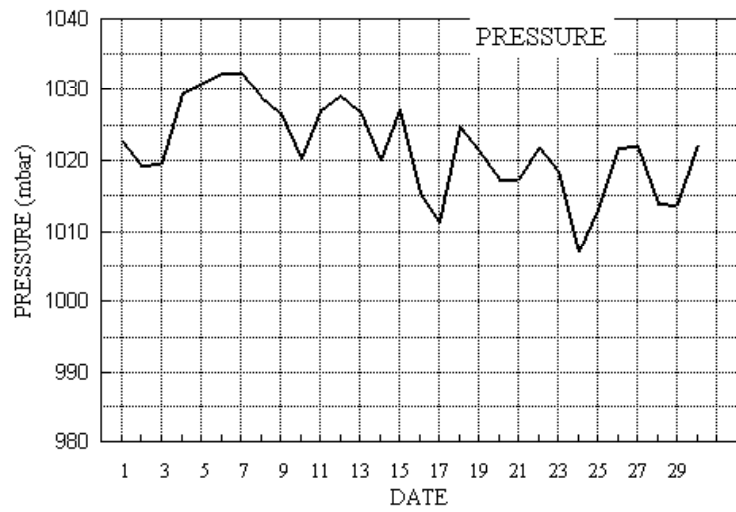
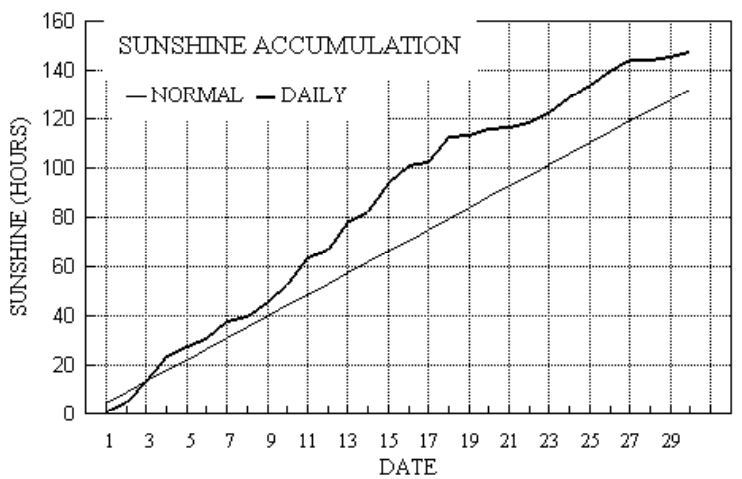
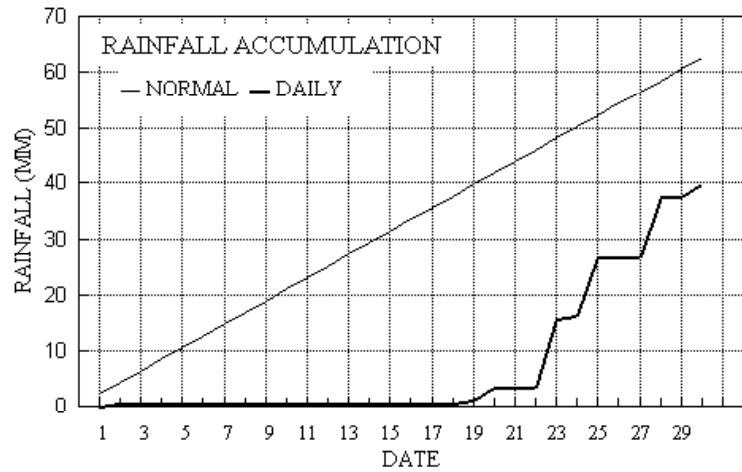
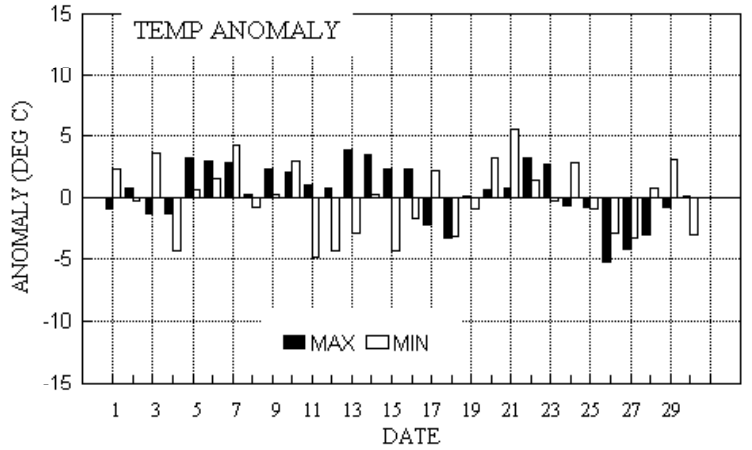
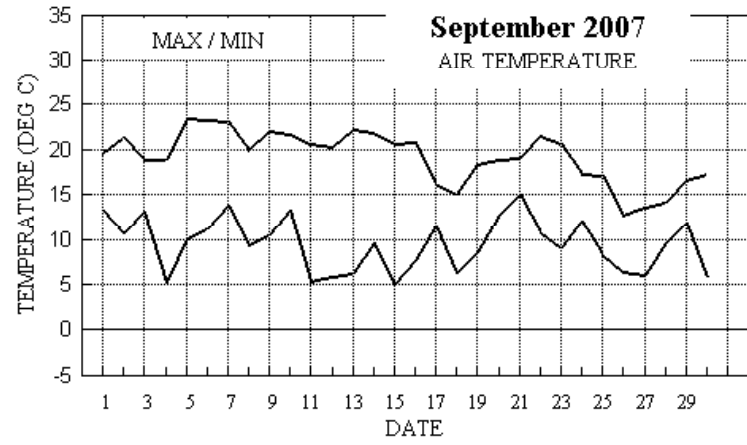
Sunshine near normal.

Temperature. The mean temperature this month is rather lower than we have had over the past few years, despite the fact that it is within 0.1° of the current 30 year climatological average. 2002 had the same mean as this September, but the previous year, 2001, was the last with a lower value. The mean max is similarly lowest since 2001, but the mean min is lowest only since 2003. Compared with the long-term, the mean temperature is 0.4° above the median. The month's highest temperature is 1.0° below the median, and the lowest maximum is 1.2° below its median. The lowest minimum is 2.1° above the median and the highest min is close to its median. The mean grass min is 0.8° below average, but there was no ground frost recorded, although one may be expected in about 6 Septembers out of 10 on average, and the last was in 2005. **Rainfall.** Below average overall, but nearly all of this month's rain fell after the 22nd, and the final week of the month was very wet, 3 days each having over 10 mm. A dry spell of 10 days ended on the 1st, and another of 16 days on the 18th. Notably, only 1.0 mm of rain fell in the 28 day period ending on the 19th. Some of the rain which eventually did fall was very heavy, with rainfall rates reaching 95 mm/hr on the 20th, and 123 mm/hr on the 24th. Thunder occurred on the 25th. **Sunshine.** This is the dullest September since 2001, though the mean is nevertheless above average. A surplus of accumulated sunshine above normal reached 35 hours by the 18th, but had fallen to about 15 hours by the 30th. Overall there were 11 days with <3 hours, 10 with =>6 hours and 5 with =>9 hours. **Wind.** The mean speed of 5.5 mph is slightly below average. The windiest day was the 24th, mean 11.5 mph, and the month's highest gust of 40 mph was also on that day. The 12th was the least windy day, mean 1.6 mph, and there were 1435 minutes, 23.92 hrs, with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,7 NE,1 E,1 SE,0 S,2 SW,8 W,5 NW,6. **Humidity.** The overall mean relative humidity was 77.9 % and the lowest value recorded was 31 % on the 18th. The mean water vapour content per kg of air was 8.3 g at 09 GMT and 7.5 g at 15 GMT. **Pressure.** The mean pressure is highest for September since 1997. **Commentary.** 10 day mean anomalies (max, min, rain, sun): 1st to the 10th : +1.1°, +1.0°, 2%, 120 %. 11th to the 20th : +0.9°. -1.7°, 14%, 143%. 21st to the 30th . -0.8°, +0.3°, 174%, 70%. The month divides into two unequal parts on the 21st. The first part was mainly dry with temperatures generally not far from normal, and sunshine above normal. Anomalies for daily maxima ranged from -3.3° on the 19th to +3.9° on the 13th. Minima had anomalies between -4.9° on the 11th and +4.3° on the 7th. There was a scattering of cold nights, 11th to 13th and the 15th were some, with the grass min on this latter date falling to 0.9°. There were good sunny days on the 4th, 11th, 13th 15th and 18th, all having over 66 % of maximum, but there were also 11 days with <33 %. Nevertheless, sunshine hours were about 30 % above average overall. Winds were mainly light, occasionally moderate, and dropped very light on the 12th. Directions were W'ly becoming NW'ly on the 3rd, S'ly on the 13th, NW'ly on the 17th and SW'ly on the 19th. The second period, from the 23rd to the 30th, was often wet and rather dull. Temperatures were again generally near normal, except for a cool snap from the 26th to 28th when daily maxima were as much as 5.2° below normal. Despite the overall wet nature, with over 10 mm on the 23rd, 25th and 28th, there were also 3 dry days. The sunniest day had only 53 % of the maximum. Mostly moderate winds temporarily increased fresh on the 24th, but became light on the 29th. Directions were SW'ly veering N'ly by the 26th and E'ly by the 30th.

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

Correction to August 2007 data : Mean min 11.2, +0.8, 60th highest. Daily mean 16.3, -0.8, 61st highest

Wokingham climatological graphs for September 2007



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: SEPTEMBER 2007

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	13.2	tr	8.8	17.5	18.4	1.0	0.0	1022.6	0 0 0 0	0 0 0 0	0 0 0 0	260	3.8	4.1	260 12 1420	260 6 03	0.0
2	21.3	10.7	0.4	5.9	17.5	18.3	4.2	0.0	1019.2	0 0 0 0	0 0 0 0	0 0 0 0	246	6.7	6.9	250 22 1622	250 10 16	0.7
3	19.0	13.1	0.0	11.5	17.7	18.3	8.2	0.0	1019.5	0 0 0 0	0 0 0 0	0 0 0 0	327	4.2	4.6	350 22 0111	340 7 14	0.0
4	19.0	5.1	0.0	1.5	17.3	18.3	10.5	0.0	1029.4	0 0 0 0	0 0 0 0	0 0 0 0	347	1.3	2.3	350 13 1350	350 5 12	0.0
5	23.5	10.1	0.0	6.1	17.2	18.2	3.8	0.0	1030.7	0 0 0 0	0 0 0 0	0 0 0 0	287	2.3	3.1	300 11 1527	310 5 16	0.0
6	23.3	11.1	0.0	7.7	17.4	18.2	2.9	0.0	1032.3	0 0 0 0	0 0 0 0	0 0 0 0	325	1.7	2.3	300 11 1127	320 5 11	0.0
7	23.1	13.8	0.0	9.6	17.7	18.2	7.5	0.0	1032.3	0 0 0 0	0 0 0 0	0 0 0 0	332	1.8	2.3	350 12 1249	360 6 13	0.0
8	19.9	9.4	0.0	4.5	17.6	18.2	1.9	0.0	1029.0	0 0 0 0	0 0 0 0	0 0 0 0	345	3.0	3.4	310 13 1308	340 6 13	0.0
9	22.0	10.5	0.0	5.6	17.4	18.2	5.7	0.0	1026.6	0 0 0 0	0 0 0 0	0 0 0 0	284	2.5	2.8	300 12 2344	290 5 12	0.0
10	21.7	13.2	0.0	10.9	17.6	18.2	7.0	0.0	1020.2	0 0 0 0	0 0 0 0	0 0 0 0	304	5.3	6.2	350 23 1224	320 10 12	0.0
11	20.6	5.3	0.0	1.8	17.1	18.2	11.0	0.0	1027.0	0 0 0 0	0 0 0 0	0 0 0 0	356	2.1	2.7	40 18 1333	20 6 09	0.0
12	20.4	5.9	0.0	1.6	16.7	18.1	3.4	0.0	1029.2	0 0 0 0	0 0 0 0	0 0 0 0	26	0.5	1.4	30 9 1134	30 3 12	0.0
13	22.3	6.3	0.0	2.4	16.5	18.1	10.7	0.0	1026.9	0 0 0 0	0 0 0 0	0 0 0 0	198	2.2	2.6	210 11 1342	210 5 20	0.0
14	21.9	9.6	0.0	5.5	16.6	18.0	4.3	0.0	1019.9	0 0 0 0	0 0 0 0	0 0 0 0	263	3.6	4.6	260 20 1017	250 9 09	0.0
15	20.7	4.9	0.0	0.9	16.4	17.9	11.9	0.0	1027.1	0 0 0 0	0 0 0 0	0 0 0 0	219	2.3	2.8	290 13 1359	220 5 16	0.0
16	20.8	7.7	0.0	3.1	16.3	17.8	7.3	0.0	1015.3	0 0 0 0	0 0 0 0	0 0 0 0	225	6.7	6.9	240 25 1407	240 11 14	0.0
17	16.2	11.5	0.0	8.8	16.4	17.7	1.0	0.0	1011.2	0 0 0 0	0 0 0 0	0 0 0 0	313	3.8	4.7	350 21 2101	360 7 21	0.0
18	15.0	6.3	0.1	2.8	15.8	17.6	10.6	0.0	1024.8	0 0 0 0	0 0 0 0	0 0 0 0	300	4.0	5.1	330 16 1017	330 7 10	0.3
19	18.4	8.6	0.4	4.0	15.4	17.5	0.4	0.0	1021.3	0 0 0 0	0 0 0 0	0 0 0 0	230	8.0	8.1	240 24 1231	230 10 21	0.6
20	19.0	12.8	2.5	12.5	15.6	17.4	2.5	0.0	1017.2	0 0 0 0	0 0 0 0	0 0 0 0	226	8.6	8.6	220 26 1335	220 11 13	0.3
21	19.1	15.0	tr	12.8	15.9	17.3	0.7	0.0	1017.2	0 0 0 0	0 0 0 0	0 0 0 0	215	7.6	7.7	210 23 1000	210 12 10	0.0
22	21.6	10.9	0.0	6.0	16.1	17.3	2.1	0.0	1021.7	0 0 0 0	0 0 0 0	0 0 0 0	215	3.7	3.9	160 12 1418	210 6 15	0.0
23	20.6	9.0	12.1	3.9	16.1	17.3	3.8	0.0	1018.5	0 0 0 0	0 0 0 0	0 0 0 0	198	6.6	6.7	220 23 1136	210 11 11	4.7
24	17.3	12.1	0.6	11.7	16.4	17.3	6.4	0.0	1007.1	0 0 0 0	0 0 0 0	0 0 0 0	228	9.4	10.0	250 35 0602	200 14 05	0.2
25	17.2	8.4	10.6	5.5	15.9	17.3	5.3	0.0	1013.1	0 0 0 0	1 0 0 0	0 0 0 0	262	3.9	5.1	260 16 1023	250 7 08	3.3
26	12.7	6.4	tr	1.7	15.5	17.2	5.7	0.0	1021.7	0 0 0 0	0 0 0 0	0 0 0 0	356	6.5	6.7	30 25 1453	360 11 13	0.0
27	13.7	6.0	tr	3.8	14.8	17.1	4.5	0.0	1021.9	0 0 0 0	0 0 0 0	0 0 0 0	359	6.7	6.8	30 23 1048	10 11 10	0.1
28	14.2	9.6	11.0	5.9	14.4	17.0	0.1	0.0	1014.0	0 0 0 0	0 0 0 0	0 0 0 0	360	5.6	5.7	20 21 0929	10 10 10	8.2
29	16.6	11.9	0.0	11.7	14.5	16.8	1.3	0.0	1013.8	0 0 0 0	0 0 0 0	0 0 0 0	22	3.4	3.5	20 11 1237	30 5 10	0.0
30	17.4	5.7	2.1	1.5	14.7	16.7	1.5	0.0	1022.3	0 0 0 0	0 0 0 0	0 0 0 0	73	3.3	3.4	80 13 1900	80 6 19	2.3
Total			39.8				147.2	0.0										20.7
Mean	19.3	9.5		6.0	16.4	17.7	4.91	0.0	1021.8					269	2.3	4.8		
Anom	+0.4	-0.2	63%		+0.3	+1.2	112%			+5.3								
Daily mean		14.4																
Anom		+0.1																

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 = 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 September 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	86	7	36	03	07	16.9	13.7	82	9.7	1022.6	2	008	15	1	1	7	8	4	/ /	81812	83818	87640	1	Cu fra/med jpSE	
2	86	6	26	07	14	18.3	13.6	74	9.7	1019.2	8	005	02	2	2	1	8	5	0	2	81820	86078		2	1Sc50 2Cc75 Cu fra COTRA Iridescence
3	82	7	33	07	13	14.9	9.9	73	7.5	1019.5	2	021	03	2	2	2	8	5	0	8	82822	87277		3	1Sc50 COTRA Cu med Halo 22 part
4	81	2	03	02	07	13.6	9.5	76	7.3	1029.4	2	015	01	1	1	2	8	4	0	1	81818			4	2Sc40 1Ci80 COTRA Cu hum
5	82	4	31	03	07	16.8	12.1	74	8.6	1030.7	3	001	02	1	1	4	5	6	0	0	81630	83656		5	1Sc45
6	58	8	31	02	06	16.4	14.8	91	10.4	1032.3	2	007	05	2	2	8	6	3	/ /	88706			6		
7	57	2	36	01	05	18.3	15.8	85	11.0	1032.3	1	004	05	1	1	2	6	3	3	0	82706			7	1Sc35 1Ac57
8	58	7	33	04	09	15.3	12.8	85	9.1	1029.0	8	003	05	1	1	6	6	3	/ /	86708			8	/Ci80 COTRA	
9	56	7	29	03	06	14.9	12.7	87	9.1	1026.6	1	004	05	1	1	7	5	2	/ /	84705	87650		9		
10	84	7	28	09	19	17.8	12.4	71	8.9	1020.2	3	003	03	2	2	7	8	5	3	1	83822	83630		10	2Sc45 /Ac62 /Ci78 COTRA Cu hum
11	81	1	01	06	10	14.7	9.5	71	7.3	1027.0	2	011	03	0	0	1	1	5	0	0	81820			11	Cu fra
12	15	8	32	01	04	13.8	13.1	95	9.3	1029.2	1	007	28	4	1	8	6	1	/ /	83702	88703		12	vv 400m @0800z	
13	58	4	36	01	04	16.3	13.1	81	9.3	1026.9	7	007	05	0	0	1	1	4	0	1	81810	84080		13	COTRA Cu fra
14	60	7	25	06	12	16.3	13.1	81	9.3	1019.9	3	004	03	1	1	2	5	4	7	1	81712	87359		14	2Sc40 1Ac57 /Ci75
15	70	1	05	01	05	13.4	9.9	79	7.5	1027.1	1	003	02	0	0	1	0	9	3	0	81370			15	Ac str vir
16	82	1	22	09	17	16.5	10.9	69	8.1	1015.3	7	013	03	0	0	1	1	5	4	1	81822			16	1Ac69 1Ci80 Cu fra
17	86	7	30	06	11	14.1	10.1	77	7.7	1011.2	3	012	02	2	2	1	1	4	7	8	81816	83365	87270	17	2As62 1Ac68 COTRA Cu fra
18	86	2	32	07	12	10.2	4.3	67	5.1	1024.8	1	025	03	0	0	1	1	5	0	1	81825			18	2Ci80 COTRA Cu fra
19	72	8	23	09	16	12.9	10.4	85	7.8	1021.3	6	002	60	6	2	8	5	4	/ /	82715	84640	88650	19		
20	80	6	21	11	20	17.3	13.0	76	9.3	1017.2	1	007	03	2	2	4	8	4	3	1	82818	83645		20	2Ac58 1Ci75 Cu hum
21	84	7	21	10	19	16.4	12.2	76	8.8	1017.2	4	000	03	2	2	7	8	4	3	2	81818	83822	87635	21	/Ac68 /Ci70
22	58	8	23	04	07	15.2	13.6	90	9.7	1021.7	1	014	05	4	2	8	6	3	/ /	88706			22		
23	63	7	20	08	15	17.0	14.2	84	10.1	1018.5	8	004	03	2	2	5	1	4	7	1	85812	84078		23	1Ac58 2Ac65 COTRA Cu hum
24	89	5	25	10	18	13.3	10.0	80	7.7	1007.1	3	026	01	6	2	1	8	4	8	0	81813	83462		24	1Sc40 1Ac62 4Ac65 Cu fra/medN Ac cas
25	81	1	25	08	15	13.7	9.2	74	7.2	1013.1	2	006	03	0	0	1	8	5	0	1	81820			25	1Sc40 1Ci75 Cu fra Sc len
26	83	4	01	08	18	10.3	5.7	73	5.7	1021.7	0	002	01	1	1	1	8	4	7	1	81818	83358		26	1Sc45 1Ci78 Cu fra/hum
27	78	1	36	08	19	10.1	5.7	74	5.7	1021.9	7	004	02	0	0	1	8	4	0	0	81818			27	1Sc30 Cu fra
28	63	7	01	08	17	13.3	9.4	77	7.3	1014.0	7	007	02	5	2	7	8	4	3	/	85818	86630		28	/Ac65
29	59	8	02	05	09	13.3	12.8	96	9.2	1013.8	1	016	21	6	5	8	5	2	/ /	81705	85630	88645	29	2Sc20	
30	73	7	06	04	07	10.5	8.9	90	7.0	1022.3	1	009	02	2	2	1	5	7	3	1	81656	85359	86080	30	COTRA

Mean vis = 30.0 km

Mean cloud = 5.2 65%

Mean wind speed = 5.7 kn

Mean gust = 12 kn

Mean TT = 14.7 C

Mean TdTd = 11.2 C

Mean RH = 79.8 %

Mean r = 8.3 g/kg

Mean PPP = 1021.8 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 September 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	88	7	28	05	11	19.0	11.7	62	8.4	1021.4	7	010	02	2	2	7	8	6	/ /	81830	83640	87645	1	Cu hum	
2	84	7	25	10	19	19.9	10.0	53	7.6	1016.8	7	014	02	2	2	7	5	6	4	2	87640			2	/Ac65 /Ci75 Sc len Ac len
3	84	7	35	07	16	17.9	4.7	41	5.2	1021.1	1	008	01	2	2	2	4	7	0	1	81850	86080		3	2Sc56 COTRA Cu hum/med
4	82	2	01	05	09	18.1	5.1	42	5.3	1029.4	7	003	01	0	0	2	4	7	0	0	81850			4	1Sc50 Cu hum
5	82	7	32	04	11	22.2	15.1	64	10.5	1029.7	7	007	02	2	2	2	8	6	7	/	82830	87357		5	1Sc50 Cu med
6	67	6	01	04	08	21.8	15.4	67	10.7	1031.6	8	008	01	2	2	6	8	5	0	0	82828	85650		6	Cu med Cre rays
7	68	5	36	03	10	22.3	13.5	57	9.4	1030.5	7	010	02	1	1	5	8	6	0	0	82835	83645		7	1Sc50 Cu hum/med
8	67	7	35	05	10	17.7	11.7	68	8.4	1026.9	7	012	02	2	2	7	5	5	/ /	87625			8		
9	70	7	32	03	08	20.2	9.6	51	7.3	1024.6	8	015	03	1	1	3	4	6	0	1	82842	87080		9	2Sc45 COTRA Cu hum
10	83	3	34	09	19	20.6	5.7	38	5.6	1019.9	0	001	02	0	0	2	4	7	0	1	81850			10	1Sc56 2Ci80 COTRA Cu hum
11	82	2	02	05	11	20.0	8.1	46	6.6	1026.3	6	006	02	0	0	2	4	6	0	1	81848			11	2Sc50 1Ci80 Cu hum
12	81	7	04	01	04	19.2	10.3	56	7.6	1027.8	6	006	02	2	2	7	8	6	/ /	81835	83640	87650	12	Cu med	
13	65	3	19	04	10	20.9	10.6	52	7.8	1023.6	7	019	02	0	0	3	8	6	0	0	83840			13	1Sc56 Cu med
14	84	7	25	06	16	20.1	13.2	64	9.3	1019.7	6	006	01	2	2	5	2	5	3	1	85828	86078		14	1Ac65 Cu med ra
15	86	1	23	04	10	19.7	6.5	42	5.9	1023.2	7	026	02	0	0	1	4	7	0	0	81850			15	1Sc50 Cu hum
16	86	7	24	11	24	18.5	9.7	57	7.5	1010.5	6	022	03	1	1	7	5	6	/ /	87635			16		
17	86	7	34	06	14	14.9	6.3	56	5.9	1011.8	4	000	02	2	2	4	8	6	7	8	82835	83650	87272	17	3Ac65 2As68 Cu med
18	86	4	27	06	14	13.6	-1.4	35	3.4	1025.3	5	002	03	0	0	2	1	7	3	1	82850	83080		18	1Ac62 COTRA Cu hum
19	65	8	23	09	19	17.0	10.9	67	8.0	1019.4	7	009	80	8	2	7	8	5	7	/	83825	84635	87650	19	/Ac58 Cu med
20	84	7	24	07	22	17.2	14.0	81	9.9	1016.8	7	002	25	8	2	2	8	4	0	2	81818	87075		20	2Sc40 2Ci70 COTRA Cu med Parhelion int
21	82	8	21	09	20	17.7	11.2	66	8.2	1016.0	6	004	02	2	2	8	5	6	/ /	82630	88635		21		
22	82	7	21	06	11	19.7	12.5	63	8.9	1020.6	7	011	02	2	2	7	8	6	/ /	82830	87656		22	2Sc45 /Ci75 Cu med	
23	80	5	20	08	18	19.3	11.7	61	8.5	1015.7	7	019	03	1	1	4	8	5	3	1	81828	83640		23	2Sc35 4Ac57 /Ci75 Cu hum Sc len
24	65	6	25	11	22	13.6	10.0	79	7.6	1010.4	1	011	80	8	2	4	8	6	6	0	83835	84357		24	2Sc40 Cu med vv40k exp Rainbow
25	58	7	25	03	11	11.3	10.0	92	7.6	1013.9	3	005	92	9	8	5	8	3	6	3	81706	85925	83645	25	2Ac60 /Ci70 vv25k N
26	70	6	01	12	23	10.9	1.8	53	4.3	1021.6	5	001	80	8	2	3	8	6	6	0	83840	83360		26	1Sc50 Cu med/con vv50k SE
27	75	7	36	08	18	12.0	7.0	72	6.2	1019.3	8	018	01	2	2	7	8	5	/ /	82823	83635	87650	27	Cu hum	
28	60	8	36	07	16	11.9	10.8	93	8.1	1011.2	6	017	61	6	6	8	5	3	/ /	82708	85612	88618	28		
29	82	7	03	05	10	15.1	10.5	74	7.9	1014.9	3	004	02	2	2	7	8	5	/ /	81825	87650		29	Cu med	
30	77	7	10	05	10	16.3	8.6	60	6.9	1021.7	7	007	03	2	2	2	5	6	7	1	82630	86075		30	1Ac60 2Ac68 COTRA

Mean vis = 35.6 km

Mean cloud = 6.0 75%

Mean wind speed = 6.3 kn

Mean gust = 14 kn

Mean TT = 17.6 C

Mean TdTd = 9.5 C

Mean RH = 60.4 %

Mean r = 7.5 g/kg

Mean PPP = 1020.7 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.

SEPTEMBER 2007	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	16.68	19.4	1403	12.9	519	76.10	93.8	606	60.6	1456	12.39	8.85	10.1	1148	8.0	2224	1021.69	1022.8	910	1020.3	1755	0.0
2	16.60	21.2	1227	10.4	307	76.40	96.7	311	50.9	1229	12.15	8.76	10.7	2359	7.4	307	1017.83	1020.7	11	1014.9	2320	0.0
3	14.42	19.2	1437	7.5	2351	68.63	94.8	50	35.6	1523	8.16	6.78	10.9	107	4.7	1523	1020.20	1026.3	2351	1014.7	16	0.4
4	12.12	18.9	1525	5.2	512	75.00	98.0	641	38.7	1545	7.11	6.19	7.8	839	5.0	1400	1028.96	1030.9	2252	1026.1	6	0.0
5	16.89	23.6	1606	11.2	36	78.10	96.7	2225	54.2	1606	12.84	9.10	11.4	1231	7.0	0	1030.17	1031.2	2353	1028.9	1608	0.0
6	17.16	23.2	1614	10.8	538	85.10	98.2	620	57.8	1613	14.44	10.06	11.7	1831	7.7	538	1031.70	1032.6	1033	1030.9	1602	0.0
7	17.32	23.4	1240	11.2	2351	83.40	98.0	621	52.1	1341	14.19	9.88	11.9	1046	7.9	2351	1031.01	1032.6	904	1029.4	1818	0.0
8	14.56	19.8	1316	9.4	548	81.20	98.6	622	57.9	1317	11.17	8.12	9.8	902	7.1	548	1027.91	1030.1	2	1026.1	1633	0.0
9	16.20	21.8	1344	10.3	559	73.60	97.6	616	40.0	1252	11.03	8.08	9.6	1017	6.0	1252	1024.80	1026.6	901	1022.2	2358	0.0
10	16.11	21.8	1301	11.0	2358	63.48	84.2	423	35.0	1333	8.66	6.98	8.9	1036	5.1	1442	1020.79	1024.1	2359	1018.9	1243	0.0
11	12.76	20.3	1415	6.2	528	75.50	97.6	658	40.6	1540	7.87	6.52	7.6	928	5.6	528	1026.35	1028.2	2357	1023.9	14	0.0
12	12.80	20.5	1158	5.9	535	85.10	98.3	820	52.6	1614	10.02	7.59	10.2	923	5.5	540	1028.11	1029.2	909	1027.2	1734	0.0
13	14.32	22.1	1418	6.3	545	77.80	98.7	659	45.3	1346	9.89	7.52	9.6	854	5.7	552	1024.82	1028.4	6	1020.7	2333	0.0
14	14.56	21.7	1415	7.8	2353	78.10	97.7	351	48.2	1722	10.42	7.84	10.0	1409	5.9	2011	1020.84	1025.5	2358	1019.1	657	0.0
15	12.81	20.6	1529	4.9	518	73.70	97.5	610	38.4	1555	7.44	6.37	8.0	936	5.1	518	1024.26	1027.3	740	1019.9	2358	0.0
16	14.51	20.7	1348	7.5	327	77.30	97.3	339	44.4	1359	10.24	7.78	9.3	1752	6.2	327	1013.16	1020.0	1	1009.0	1725	0.0
17	12.93	16.1	1327	8.0	2358	71.70	92.1	556	50.7	1328	7.72	6.63	8.7	4	5.0	1849	1011.89	1017.8	2359	1008.9	341	0.0
18	10.22	15.1	1521	6.0	547	60.27	81.1	418	29.0	1432	2.21	4.44	5.3	1	2.9	1432	1023.47	1025.5	1108	1017.7	2	0.0
19	13.47	18.4	1415	8.3	26	75.60	88.4	934	58.3	1411	9.17	7.26	8.9	1026	5.0	47	1020.37	1024.1	1	1017.9	2354	0.5
20	16.35	18.9	1103	14.5	608	79.50	89.9	1412	64.4	1622	12.77	9.11	10.4	1449	8.4	115	1017.29	1018.5	2041	1016.2	1329	2.5
21	16.39	19.0	1145	14.7	613	77.70	90.0	2155	56.3	1251	12.37	8.88	9.7	2248	7.4	1251	1017.27	1019.4	2353	1015.8	1445	0.1
22	15.81	21.1	1231	10.5	510	83.30	97.7	528	57.1	1235	12.78	9.09	10.1	1023	7.6	510	1020.84	1022.3	1046	1019.2	40	0.0
23	15.39	20.3	1214	8.8	513	84.70	98.4	528	57.2	1406	12.60	9.08	11.4	2358	6.9	513	1016.78	1020.9	3	1009.7	0	0.3
24	14.09	17.4	29	9.7	2318	76.20	94.6	734	47.2	1240	9.73	7.72	11.4	7	5.5	1334	1008.98	1013.2	2314	1002.6	535	12.4
25	11.50	17.1	1231	8.2	552	83.80	95.7	2357	53.3	1232	8.72	6.99	8.4	1644	6.2	1220	1014.64	1020.2	2355	1012.2	359	10.5
26	9.31	12.9	1402	6.2	424	74.30	97.0	435	46.2	1220	4.65	5.29	7.5	1	4.0	1243	1022.00	1023.5	2007	1020.0	1	0.3
27	9.59	13.6	1040	5.7	532	79.30	93.2	2134	56.7	1041	6.08	5.83	7.2	2326	4.9	3	1020.58	1022.8	609	1017.5	2359	0.0
28	11.90	14.2	1104	9.4	46	90.30	97.3	2357	72.4	1107	10.33	7.80	8.9	2356	6.7	17	1013.31	1017.7	17	1011.0	1601	7.3
29	13.29	16.6	1336	9.5	2357	89.20	98.1	641	68.6	1410	11.49	8.41	9.5	1051	6.8	2355	1014.81	1019.5	2314	1011.6	107	3.7
30	11.26	17.2	1434	5.6	443	83.30	98.4	628	55.5	1416	8.33	6.77	8.1	1726	5.5	443	1021.74	1023.4	2117	1017.4	9	0.0
Total																						38.0
Mean	14.04	19.2		8.8		77.92	95.2		50.8		9.90	7.66	9.4		6.1		1021.22	1024.2		1018.3		
Max	17.32	23.6		14.7		90.30	98.7		72.4		14.44	10.06	11.9		8.4		1031.70	1032.6		1030.9		
Min	9.31	12.9		4.9		60.27	81.1		29.0		2.21	4.44	5.3		2.9		1008.98	1013.2		1002.6		

x and n refer to maximum and minimum respectively.
 AWS samples taken every 0.5 seconds.

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

Tmn = 24 hour mean temperature from AWS, deg C
 RHmn = 24 hour mean relative humidity from AWS, deg C
 TDmn = 24 hour mean dew point temperature, deg C
 rmn = 24 hour mean humidity mixing ratio, g/kg
 pmn = 24 hour eqn air pressure reduced to sea level, mbar
 Rtot = 24 hour rainfall total from AWS Tipping Bucket Raingauge.
 Time = hours and minutes in GMT