

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

DECEMBER 2007

Temperature (°C / °F)			Anomaly	Rank in the past 126 years			
Mean maximum	8.7	47.7	+0.4	37 th highest			
Mean minimum	2.0	35.6	-0.5	53 rd highest			
Daily mean	5.3	41.5	-0.1	46 th highest			
Highest maximum	14.7	58.5	on 5 th	Lowest maximum	3.6	38.5	on 15 th
Highest minimum	9.6	49.3	on 28 th	Lowest minimum	-6.3	20.7	on 20 th
Mean grass minimum	-0.9	30.4		Lowest grass minimum	-11.5	11.3	on 20 th
Mean earth @30 cm	6.2	43.2	-0.4	Earth @100 cm	9.5	49.1	
Frost duration (hrs)	123.4			Rain duration (hrs)	35.1		
Rainfall total (mm / in)	42.5	1.67	66 %	35 th lowest			
Highest daily fall	9.9	0.39	on 24 th				
Number of: Dry days (<0.2mm)	18	Wet days (>0.9mm)	10	days ≥5mm	3		
Sunshine total (hrs)	81.4	Daily mean	2.63	154 %	Sunniest day	6.7	on 20 th
N° days with: Air frost	11	Ground frost	16	Snow falling	0	Snow lying	0
Thunder	0	Hail ≥5mm	0	Small hail/ice	1	Fog @09	2
Air pressure MSL : Mean @09 GMT (mbar/in)		1021.2	+6.1	30.16			
Absolute highest		1042.0		30.77		on 13 th	
Absolute lowest		976.8		28.84		on 9 th	

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

Notes:

Temperature Above Normal.

Dry.

Very Sunny.

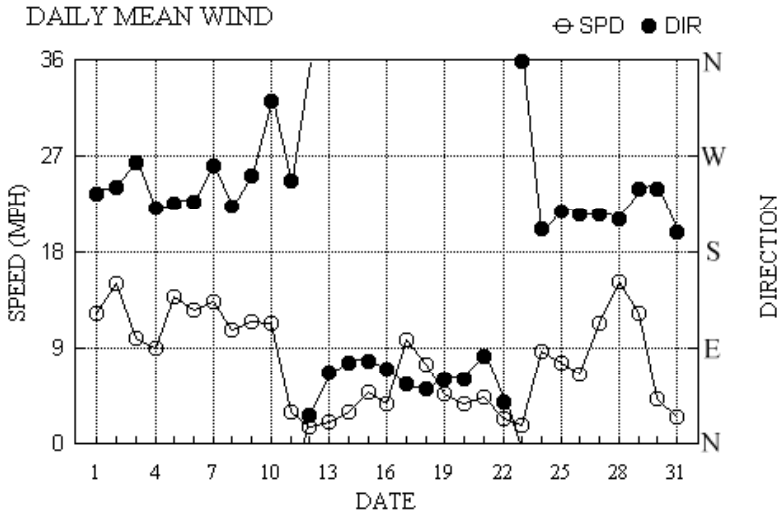
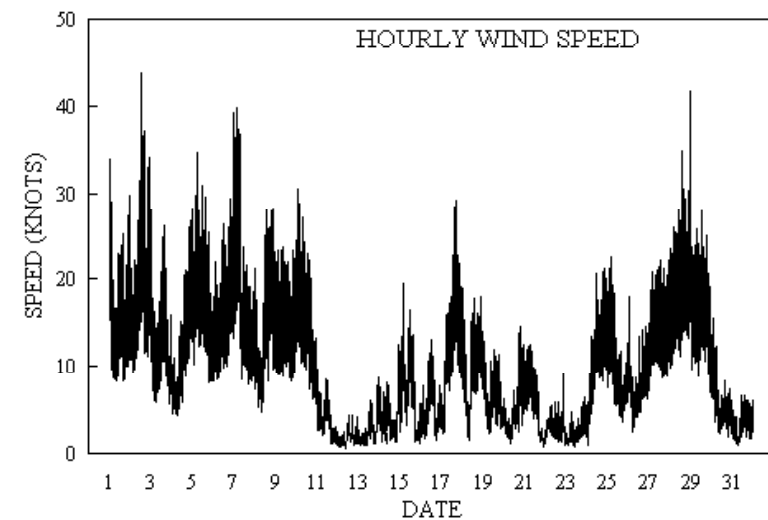
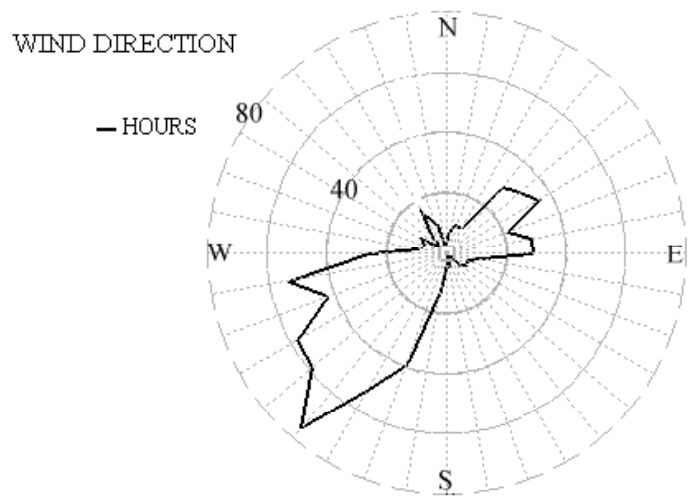
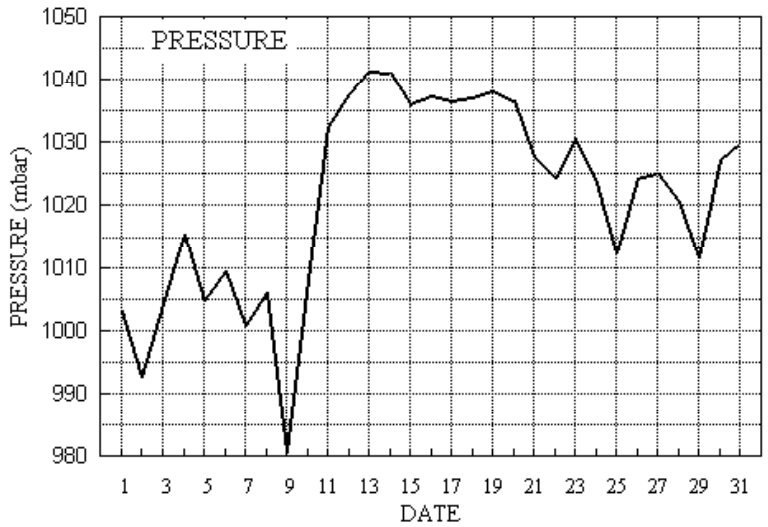
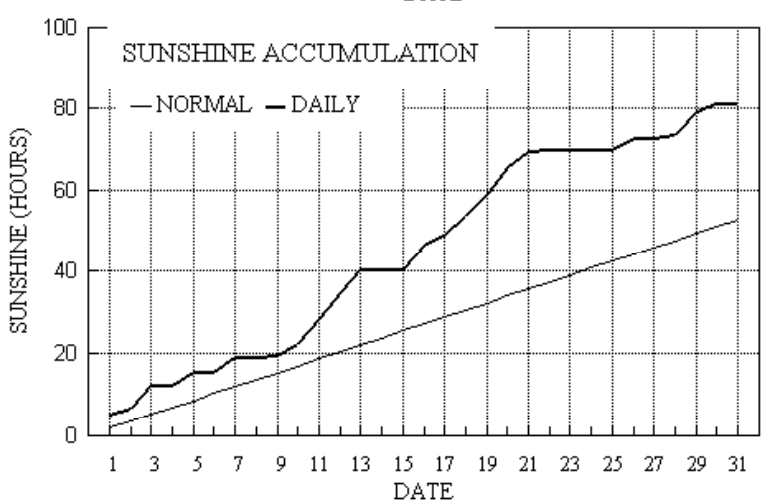
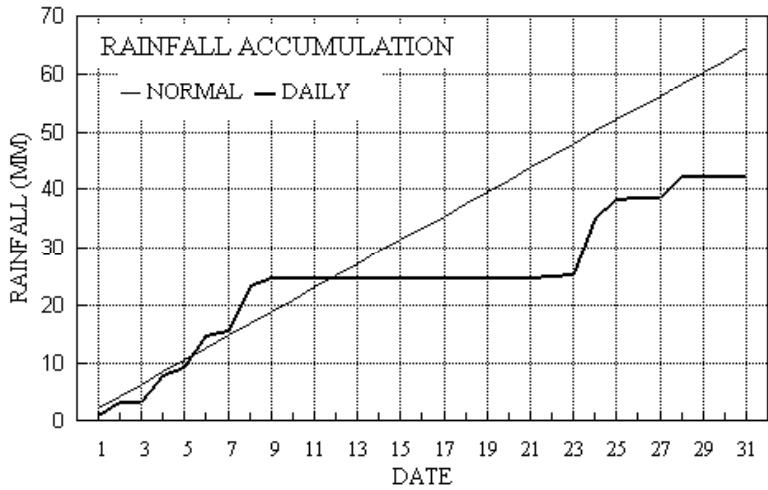
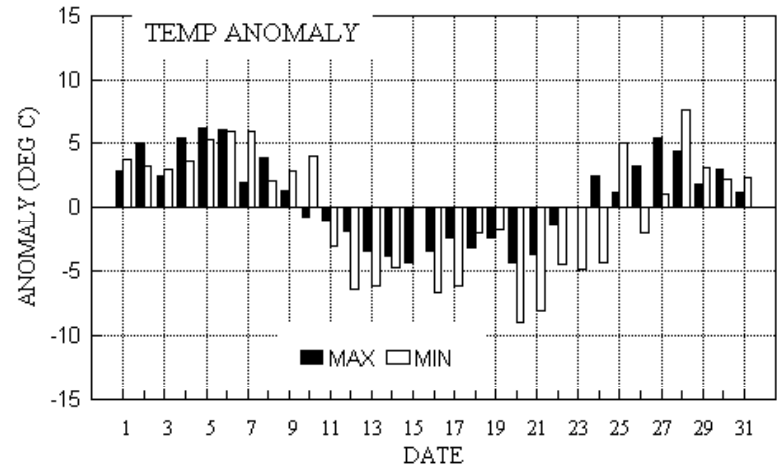
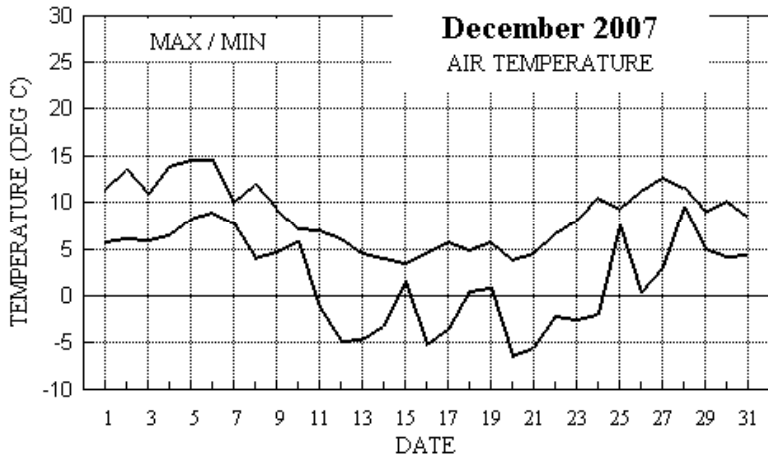
Temperature. Although the mean this December is very close to the current 30 year climatological average, the month contained alternating periods of mild and cold weather. The mean maximum is furthest from the long-term median at 0.9° above, but the mean minimum is only 0.1° above its median value. Cold Decembers are rare these days, though it is only necessary to look back to 1981 to find the second coldest December in the 126 year record, 1890 being the coldest by a large margin. The highest max this December is 1.6° above the median and is equal highest with 1994 since 1985. The lowest max is 2.5° above the median, but was exceeded as recently as 2004. The highest min is 0.3° above the median, while the lowest min is 1.1° below the median and lowest since 2000. The lowest grass min is also lowest since 2000. Earth temperatures are a little below average, but lowest only since 2005. The number of hours with air frost is 33 above average, the number of days with ground frost is exactly average. **Rainfall.** This was quite a dry December, 34 % below average and driest since 2001, and there were 3 more dry days than average. A dry spell of 12 days ended on the 21st. The duration of measurable rain is 23 hours below average, but lowest only since 2004. Snow was not observed this month, but freezing rain fell briefly on the 22nd. **Sunshine.** This December is in the very sunny category, although both 2005 and 2001 were sunnier. The number of days with nil sun is 3 fewer than average. Overall there were 18 days with <3 hours and 4 with =>6 hours. **Wind.** The mean wind speed this month is 7.7 mph, 0.3 mph above average. The 28th was the windiest day, mean speed 15.2 mph, but the month's highest gust of 51 mph was on the 2nd. The least windy day was the 12th, mean 1.5 mph, and there were 1066 minutes (17.8 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,1 NE,7 E,4 SE,0 S,2 SW,13 W,3 NW,1. **Humidity.** The overall mean relative humidity was 83.7%, and the lowest value was 55 % on the 11th. The mean water vapour content per kg of air was 4.6 g at 0900 and 4.8 g at 1500 GMT. **Commentary.** Alternating mild and cold regimes characterized this December's weather. Up to the 10th it was mild, wet and windy, followed by a much cooler spell, dry and often with light winds, then after the 23rd there was a return to the mild, windy and rainy conditions. Anomalies for daily max and min temperatures were about 6° above normal on the 5th and 6th. There was only one dry day until the 9th, and although the 1st and 3rd were reasonably sunny, only one other day up to the 10th had >3 hours. Winds were generally SW'ly, fresh or strong. A marked change was heralded by a prolonged rise in pressure, from 977 mbar at midday on the 9th to 1032 mbar at 0900 on the 11th, with a slower rise to 1042 mbar over the following 2 days. Temperatures fell, with daily maxima all below normal from the 10th to the 22nd, and up to the 24th for minima. Individual anomalies were -4.4° for the max on the 15th and 20th, and -9.0° for the min on the 20th. The 11th, 12th, 16th and 20th each had over 6 hours of sunshine, and no rain fell for 12 days up to the 21st. Winds were mainly E'ly, and generally light, but temporarily fresh on the 17th. After the 23rd temperatures recovered, with anomalies for daily max of +5.4° on the 27th, and +7.6° for the min on the 28th. Although the 24th, 25th and 28th were wet, only a little rain fell otherwise. However, it was mainly cloudy, just the 29th was sunny. Winds became SW'ly on the 24th, and increased to strong on the 28th before dropping away to light on the 30th.

10 day mean anomalies: (max, min, rain, sun) :

1 st to the 10th			11 th to the 20th				21 st to the 31st				
+3.4	+4.0	120%	129%	-3.1	-4.6	0%	253%	+1.6	-0.2	77%	82%

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

Wokingham climatological graphs for December 2007



Month: DECEMBER 2007

Date	Max		Rain mm	Grass Min	30cm		100cm		Sun hrs	Frost hrs	pp09 mbar	Af Gf	Sf Sl	Th Ha	Ic Fg	Vec mean			Max gust			High hr			Rain hrs	
	C	C			C	C	C	C								ddd	ff	sp	ddd	gg	HHhh	ddd	ff	HH		
1	11.4	5.8	0.9	2.7	8.7	10.7	5.3	0.0	1003.2	0	0	0	0	0	0	235	10.5	10.6	234	34	0033	244	15	01	0.5	
2	13.5	6.2	2.3	3.7	8.1	10.7	1.3	0.0	992.6	0	0	0	0	0	0	241	12.5	13.1	262	44	1221	257	18	12	1.4	
3	11.0	6.0	tr	1.9	8.2	10.7	5.9	0.0	1004.2	0	0	0	0	0	0	265	8.2	8.5	303	28	0037	294	14	00	0.0	
4	13.9	6.6	4.8	3.8	7.8	10.7	0.0	0.0	1015.4	0	0	0	0	0	0	221	7.7	7.8	219	28	2336	223	13	22	4.3	
5	14.7	8.3	1.4	11.5	8.6	10.6	3.0	0.0	1004.8	0	0	0	0	0	0	226	11.6	11.9	223	35	0510	213	16	04	1.3	
6	14.6	8.9	5.2	6.0	8.9	10.6	0.0	0.0	1009.3	0	0	0	0	0	0	228	10.8	10.9	212	30	2002	226	14	20	5.5	
7	10.1	7.8	1.0	5.3	9.6	10.7	3.8	0.0	1000.8	0	0	0	0	0	0	261	11.5	11.6	264	40	0302	263	18	06	0.5	
8	12.0	4.0	7.8	1.3	8.7	10.8	0.0	0.0	1005.9	0	0	0	0	0	0	223	8.0	9.2	225	28	2134	248	14	19	5.8	
9	9.4	4.8	1.2	2.2	8.3	10.9	0.4	0.0	980.7	0	0	0	0	0	0	252	7.6	9.9	202	24	0939	292	12	23	1.8	
10	7.3	5.9	tr	4.5	8.1	10.8	2.6	0.0	1008.2	0	0	0	0	0	0	321	9.4	9.7	301	31	0222	308	15	03	0.0	
11	7.1	-1.2	0.0	-6.7	7.4	10.7	6.1	11.5	1032.3	1	1	0	0	0	0	247	2.2	2.5	319	10	0005	252	4	09	0.0	
12	6.1	-4.8	0.0	-9.3	6.3	10.6	6.6	17.6	1037.5	1	1	0	0	0	0	26	0.5	1.3	39	5	1226	23	3	12	0.0	
13	4.5	-4.6	0.0	-9.1	5.3	10.3	5.4	15.8	1041.3	1	1	0	0	0	1	67	1.3	1.8	113	9	2202	112	4	22	0.0	
14	4.1	-3.2	0.0	-8.2	4.7	10.0	0.0	0.0	1041.0	1	1	0	0	0	0	75	1.6	2.5	66	13	2129	87	6	21	0.0	
15	3.6	1.6	0.0	-0.5	5.1	9.7	0.0	7.5	1036.1	0	1	0	0	0	0	78	3.6	4.1	96	20	0411	84	8	11	0.0	
16	4.5	-5.1	0.0	-10.1	4.7	9.4	6.2	16.5	1037.4	1	1	0	0	0	0	69	2.9	3.2	102	13	1144	72	7	12	0.0	
17	5.8	-3.5	0.0	-9.0	4.1	9.2	2.6	5.1	1036.5	1	1	0	0	0	0	55	8.2	8.4	58	29	1630	60	13	15	0.0	
18	5.0	0.6	0.0	-2.5	4.1	9.0	4.6	0.0	1037.2	0	1	0	0	0	0	51	6.0	6.4	44	18	2023	37	9	19	0.0	
19	5.8	0.9	0.0	-3.8	4.3	8.8	5.2	5.1	1038.1	0	1	0	0	0	0	61	3.7	4.0	38	13	0031	38	7	00	0.0	
20	3.8	-6.3	0.0	-11.5	3.9	8.6	6.7	11.4	1036.5	1	1	0	0	0	0	60	3.0	3.2	81	15	1815	72	7	19	0.0	
21	4.5	-5.4	0.0	-5.1	3.4	8.4	4.1	7.6	1027.7	1	1	0	0	0	0	82	3.6	3.7	79	13	0628	81	6	06	0.0	
22	6.7	-2.1	0.4	-6.5	3.3	8.2	0.2	11.2	1024.4	1	1	0	0	0	0	38	0.7	2.0	221	9	2031	240	3	20	0.5	
23	8.1	-2.5	0.2	-7.3	3.6	8.1	0.0	14.1	1030.5	1	1	0	0	0	1	359	0.6	1.5	324	7	2125	336	2	21	0.0	
24	10.6	-2.0	9.9	-0.1	3.8	7.9	0.1	0.0	1023.6	1	1	0	0	0	0	201	7.2	7.5	198	21	1910	202	11	19	5.2	
25	9.3	7.5	3.4	8.1	5.0	7.8	0.0	0.0	1012.4	0	0	0	0	0	0	218	6.0	6.5	199	23	0310	201	11	03	4.2	
26	11.3	0.4	0.1	-4.5	5.3	7.9	2.8	0.0	1024.4	0	1	0	0	0	0	215	5.5	5.6	229	18	0039	218	8	00	0.1	
27	12.6	3.0	0.1	6.1	5.4	8.0	0.0	0.0	1025.2	0	0	0	0	0	0	215	9.8	9.8	212	22	2234	208	11	03	0.1	
28	11.6	9.6	3.7	7.2	6.4	8.1	0.6	0.0	1020.6	0	0	0	0	0	1	211	13.1	13.2	254	42	2339	213	17	14	3.5	
29	9.0	5.1	0.0	2.2	6.9	8.2	5.9	0.0	1011.6	0	0	0	0	0	0	239	10.5	10.6	241	28	1328	239	13	13	0.0	
30	10.2	4.2	tr	-2.0	6.4	8.4	2.0	0.0	1027.2	0	1	0	0	0	0	240	3.2	3.7	295	16	0211	289	7	02	0.0	
31	8.4	4.4	0.1	0.9	6.3	8.5	0.0	0.0	1029.8	0	0	0	0	0	0	198	2.0	2.1	185	7	1033	223	4	13	0.4	
Total			42.5				81.4	123.4																	35.1	
Mean	8.7	2.0		-0.9	6.2	9.5	2.63	4.0	1021.2							233	3.4	6.7								
Anom	+0.4	-0.5	66%		-0.4	+0.5	154%		+6.1																	
Daily mean		5.3							Pressure, abs highest =							1042.0										on 13
Anom		-0.1							Pressure, abs lowest =							976.8										on 9

Number of days with:

Air frost = 11 Ground frost = 16 Nil sun = 9
Snow falling = 0 Snow lying = 0 Thunder = 0
Hail=>5mm = 0 Hail<5mm or ice = 1 Fog at 09GMT = 2

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 December 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	84	1	22	09	17	6.4	2.4	75	4.5	1003.2	1	013	02	0	0	1	5	7	0	3	81656	1	1Ci68 Cb top W		
2	75	8	21	13	25	10.6	8.5	87	7.1	992.6	7	066	61	6	2	7	5	4	2	/	82615	87618	88530	2	
3	88	0	26	07	14	6.7	1.9	71	4.4	1004.2	1	037	02	0	0	0	0	9	0	0				3	
4	70	8	20	06	10	8.2	5.1	81	5.4	1015.4	1	004	03	6	2	8	5	6	/	/	87635	88645		4	
5	70	8	22	12	25	12.8	11.3	91	8.3	1004.8	7	013	61	6	6	5	5	4	7	/	81712	85618	88462	5	2Ac60
6	75	8	22	10	20	13.1	10.9	87	8.1	1009.3	6	013	60	6	2	7	5	4	2	/	83615	87620	88556	6	
7	89	1	25	08	18	7.8	3.2	72	4.8	1000.8	1	025	02	1	1	1	8	5	3	3	81825			7	1Sc35 1Ac60 1Ci70 Cb top W
8	56	8	19	05	11	4.5	2.9	89	4.7	1005.9	8	037	62	6	2	3	5	5	2	/	83625	88540		8	Rain comm 0820
9	80	5	18	07	19	6.7	3.6	81	5.1	980.7	8	048	15	8	1	1	3	4	6	1	81818	81920	83070	9	1Sc40 2Ac60 Cu fra Cb S
10	88	8	33	11	24	5.8	1.7	75	4.3	1008.2	2	057	02	6	2	8	5	5	/	/	87618	88625		10	
11	67	6	25	03	06	0.8	-2.1	81	3.2	1032.3	2	020	02	2	2	6	0	9	7	0	86365			11	Hoar slt
12	50	2	26	01	02	-3.3	-3.8	96	2.8	1037.5	2	012	10	0	0	1	0	9	3	1	81363			12	2Ci80 COTRA Hoar mod Gnd sfc frzn
13	06	1	01	01	02	-3.2	-3.4	98	2.9	1041.3	3	005	41	4	4	1	5	6	0	0	81635			13	vv 1800W Hoar thk & rime Gnd sfc frzn
14	23	8	18	01	02	1.7	1.0	95	4.0	1041.0	0	000	10	2	2	8	6	2	/	/	83705	88707		14	
15	62	8	08	04	08	2.9	-1.4	73	3.3	1036.1	2	003	02	2	2	8	5	5	/	/	88627			15	
16	61	7	11	04	10	0.1	-3.6	76	2.9	1037.4	3	011	01	2	2	7	5	5	0	0	87625			16	Hoar slt. Gnd sfc frzn
17	58	7	04	08	13	2.3	0.4	87	3.8	1036.5	2	001	05	2	2	7	5	4	/	/	87615			17	Hoar slt Gnd sfc frzn
18	58	7	05	03	05	1.5	-1.7	79	3.2	1037.2	2	007	05	2	2	7	5	5	/	/	87620			18	
19	35	7	06	03	06	1.7	0.5	92	3.8	1038.1	2	009	05	2	2	7	5	4	/	/	83710	86613		19	
20	20	0	33	01	03	-5.3	-5.9	96	2.4	1036.5	7	002	10	0	0	0	0	9	0	0				20	Hoar thk. Gnd sfc frzn
21	30	7	08	05	10	0.5	-0.3	95	3.7	1027.7	6	003	10	2	2	7	6	2	/	/	87705			21	Gnd sfc frzn. lcy pat
22	14	7	06	02	04	-1.1	-1.2	99	3.4	1024.4	3	009	28	4	2	7	0	8	7	/	86357	87362		22	Hoar+rime slt Gnd sfc frzn fzra 0902z
23	01	5	15	01	02	-2.0	-2.1	100	3.2	1030.5	3	015	48	4	4	0	0	9	0	1	85080			23	COTRA Rime slt Gns sfc frzn Glaze slt
24	60	7	20	07	14	7.5	7.1	97	6.2	1023.6	5	001	05	2	2	7	5	4	/	/	81710	87635		24	
25	58	8	21	07	13	9.1	8.4	96	6.8	1012.4	8	002	61	6	6	8	5	3	/	/	83708	86712	88620	25	
26	68	7	20	05	09	3.0	2.7	98	4.6	1024.4	2	034	02	2	2	6	0	9	7	1	81365	86368	85075	26	Ice on grass
27	68	8	21	12	21	11.1	8.6	84	6.8	1025.2	3	005	02	2	2	7	5	4	/	/	84615	87650		27	/As68
28	80	7	21	14	24	10.3	6.2	76	5.9	1020.6	6	011	02	2	2	7	5	5	0	1	83620	86635	87078	28	COTRA
29	84	1	24	10	24	5.0	0.9	75	4.0	1011.6	3	018	02	0	0	1	0	9	6	3	81360			29	1Ci70 Cb top SW&NW
30	82	7	25	02	05	4.8	2.5	85	4.5	1027.2	2	025	02	2	2	7	5	6	0	0	87638			30	Cld edge SW
31	40	8	22	02	04	5.5	5.2	98	5.4	1029.8	3	007	14	2	2	8	5	6	/	/	83640	88645		31	Vir SW. vv 10k E

Mean vis = 20.7 km
 Mean cloud = 5.8 73%
 Mean wind speed = 5.9 kn
 Mean gust = 12 kn
 Mean TT = 4.4 C
 Mean TdTd = 2.2 C
 Mean RH = 86.6 %
 Mean r = 4.6 g/kg
 Mean PPP = 1021.2 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 December 2007

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	Nh	Ch	Nh	Ch	Date	Remarks	
1	70	6	23	11	23	9.8	3.3	64	4.9	1000.8	7 016	15	1	1	3	9	5	6	3	82925	82830	83362				1	1Sc45 2Ci68 jp N&W vv 50k ep	
2	75	3	25	16	36	10.3	2.9	60	4.8	987.4	7 004	15	8	1	3	8	6	6	0	81830	83656					2	1Ac58 Cu con jpS	
3	86	5	26	10	25	10.1	2.5	60	4.6	1004.4	7 003	03	1	1	2	8	5	3	1	82828	83075					3	1Sc35 1Ac72 1Ci80 COTRA Cu hum/med	
4	80	8	23	11	21	13.6	10.2	80	7.7	1013.8	5 009	02	5	2	8	8	5	/ /	81815	83820	88635					4	Cu fra/hum	
5	81	2	24	13	29	10.9	6.9	76	6.2	1005.4	2 012	25	8	1	1	9	5	6	3	81925	81828					5	1Sc40 1Ac64 1Ci66 jp N to SE	
6	58	8	24	10	21	14.0	12.7	92	9.2	1004.7	6 011	50	6	5	8	6	4	/ /	82710	86612	88620					6		
7	86	3	28	09	21	8.7	1.5	61	4.3	1003.7	3 021	01	1	1	1	1	6	7	3	81830	83070					7	1Ac60 2Ac65 COTRA Cu fra	
8	60	8	20	10	26	9.8	8.9	94	7.3	987.4	7 080	50	6	5	8	5	4	/ /	83710	87615	88620					8		
9	58	8	27	12	21	8.2	5.6	84	5.8	979.2	3 026	60	6	2	8	5	4	/ /	81712	83615	85620					9	8Sc35	
10	88	1	33	10	22	6.2	0.0	64	3.8	1017.1	2 041	01	1	1	1	1	5	3	0	81825							10	1Ac64 Cu fra
11	78	1	26	03	05	5.5	-1.5	60	3.3	1032.4	5 000	02	0	0	0	0	9	0	1	81080							11	COTRA
12	56	3	36	01	02	4.7	1.2	78	4.1	1037.9	5 002	05	0	0	1	5	5	0	1	81628	83080					12	COTRA Hoar slt in shade	
13	59	5	10	03	06	3.7	0.8	81	3.9	1040.3	6 012	05	1	1	5	6	0	0	85630								13	Hoar slt in shade
14	45	8	02	02	04	2.7	0.8	87	3.9	1038.8	8 015	05	2	2	8	5	4	/ /	83612	88615							14	
15	62	7	09	07	14	2.3	-3.0	68	3.0	1034.7	5 005	02	2	2	7	5	5	/ /	87625								15	
16	60	0	07	06	11	2.6	-2.3	70	3.1	1037.2	7 003	05	0	0	0	0	9	0	0								16	Hoar slt in shade
17	62	7	05	12	28	3.5	-1.0	72	3.4	1033.3	6 014	02	1	1	7	5	4	/ /	87618								17	
18	59	2	05	07	15	3.4	-0.9	73	3.4	1036.9	7 004	05	1	1	2	5	5	3	0	82622							18	1Ac65
19	58	0	08	04	11	3.8	-1.8	67	3.2	1037.0	6 007	05	0	0	0	0	9	0	0								19	
20	30	0	04	04	05	2.5	0.5	87	3.9	1032.4	6 024	05	0	0	0	0	9	0	0								20	Hoar mod in shade
21	35	4	09	04	09	2.4	-0.4	82	3.6	1025.1	7 013	05	0	0	2	6	3	0	1	82706	83078						21	
22	12	7	30	01	06	3.6	3.2	97	4.7	1023.5	5 006	10	2	2	3	6	2	3	1	83705	87075						22	2Ac65 COTRA Parhelion
23	01	9	04	01	03	1.0	1.0	100	4.0	1028.3	7 013	45	4	4	9	/ / / /											23	
24	59	8	20	09	16	9.7	6.8	82	6.1	1021.3	6 014	05	2	2	7	5	4	/ 2	86618	87635							24	/Ci72
25	70	7	27	04	12	6.7	5.2	90	5.5	1013.2	3 009	21	6	2	2	7	4	2	/	82710	87460						25	1Cu15 Cu hum Cld edge NW
26	65	7	21	05	09	8.6	5.4	80	5.5	1026.2	2 003	02	2	2	7	5	6	/ /	87645								26	
27	81	8	22	10	20	12.0	8.3	78	6.7	1025.1	5 002	02	2	2	7	8	5	/ 8	81820	87650							27	/Cs70 Cu fra
28	72	8	21	17	35	10.7	6.3	74	5.9	1016.0	6 031	03	2	2	8	5	5	/ /	85625	88630							28	
29	82	6	24	13	23	8.2	2.0	65	4.4	1011.6	5 003	03	1	1	5	8	5	0	2	83825	83635						29	2Ci72
30	84	7	25	04	08	8.4	3.2	70	4.7	1028.1	5 001	14	2	2	7	8	6	/ /	81840	87645							30	Cu hum Virga SW
31	70	7	21	03	06	8.3	5.1	80	5.4	1028.5	7 013	02	2	2	7	5	6	/ /	83635	87645							31	

Mean vis = 20.8 km
 Mean cloud = 5.2 65%
 Mean wind speed = 7.5 kn
 Mean gust = 16 kn
 Mean TT = 7.0 C
 Mean TdTd = 3.0 C
 Mean RH = 76.6 %
 Mean r = 4.8 g/kg
 Mean PPP = 1019.7 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.

December 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	7.73	11.6	0	5.4	727	73.1	88.9	1609	57.2	1307	3.14	4.81	6.7	0	4.2	308	1001.17	1003.7	909	995.9	23	0.8
2	9.40	13.4	1219	7.2	59	74.7	92.1	1025	55.8	1611	5.07	5.61	8.2	1100	4.3	1619	992.21	1002.3	218	986.5	1941	2.2
3	7.83	10.8	1316	5.7	459	70.3	79.6	432	57.8	1437	2.73	4.66	5.3	1315	4.2	839	1003.20	1011.4	2359	990.9	1	0.0
4	10.35	13.8	2136	6.3	318	82.5	95.3	1053	72.9	2136	7.48	6.52	8.3	1319	4.8	103	1013.93	1015.7	909	1010.8	2358	0.2
5	11.84	14.4	1307	9.0	2251	80.4	92.4	819	61.8	1439	8.52	7.01	8.6	830	5.3	1903	1007.74	1013.9	2329	1004.0	1109	4.9
6	12.48	14.6	1338	8.5	23	88.4	94.5	1629	76.6	347	10.60	8.08	9.3	1544	5.5	21	1006.12	1013.8	156	995.1	2350	5.2
7	8.75	14.5	16	5.1	2308	67.2	81.4	0	58.2	1359	2.98	4.81	8.4	0	3.9	2257	1002.35	1011.6	2357	994.8	24	0.0
8	7.20	11.9	1556	3.7	407	81.9	95.9	1548	66.8	2239	4.29	5.32	8.3	1551	4.0	48	997.68	1011.8	20	986.2	1623	7.4
9	7.06	9.3	1136	5.0	508	79.9	91.9	1643	70.6	104	3.81	5.15	6.2	1041	4.1	628	984.43	993.9	2355	976.8	1206	1.4
10	5.74	7.9	202	2.1	2359	70.7	81.8	529	62.4	1351	0.81	4.04	4.8	0	3.3	2359	1011.91	1027.4	2348	993.6	2	0.1
11	0.96	6.2	1350	-3.2	2329	81.2	96.9	2343	54.4	1242	-2.11	3.19	3.5	1156	2.8	2329	1031.98	1035.5	2358	1027.2	0	0.1
12	-1.44	5.3	1425	-5.0	633	93.5	98.2	2212	74.7	1452	-2.41	3.13	4.2	1331	2.4	744	1037.84	1040.8	2359	1035.2	45	0.1
13	-1.00	4.5	1439	-4.8	601	95.0	98.6	728	78.4	1444	-1.73	3.29	4.3	1251	2.5	559	1041.00	1042.0	2341	1040.2	1439	0.1
14	2.15	4.1	2129	0.7	700	89.7	96.8	711	75.1	2305	0.60	3.86	4.1	951	3.5	2345	1039.78	1041.9	0	1037.3	2132	0.1
15	1.01	3.5	1022	-4.4	2329	77.6	96.1	2223	62.4	1349	-2.61	3.08	3.6	33	2.5	2329	1035.78	1037.4	4	1034.4	1405	0.0
16	-0.63	3.6	1339	-5.4	131	85.0	97.4	2345	63.7	1308	-2.97	2.98	3.3	2027	2.4	131	1037.25	1038.5	2214	1035.7	417	0.0
17	1.76	5.3	1212	-3.8	254	82.7	98.4	321	67.7	2330	-0.98	3.47	4.1	1125	2.7	254	1035.25	1038.2	9	1032.8	1742	0.2
18	2.49	4.8	1225	0.1	812	75.6	83.9	815	67.3	1226	-1.41	3.35	3.7	2254	3.0	241	1036.98	1038.0	2035	1034.8	10	0.0
19	1.49	5.2	1300	-3.8	2340	83.4	96.0	2356	59.0	1356	-1.13	3.45	4.7	1121	2.6	1728	1037.62	1038.4	1017	1036.9	1338	0.0
20	-0.93	3.6	1352	-6.5	613	93.4	97.4	316	81.4	1346	-1.88	3.31	4.3	1930	2.2	702	1034.33	1037.9	2	1030.1	2359	0.1
21	0.44	3.7	1300	-2.5	2142	92.2	99.0	2355	75.0	1254	-0.72	3.56	3.9	0	3.0	2142	1026.77	1030.2	18	1024.8	1520	0.0
22	0.79	6.8	2036	-2.1	629	98.7	99.9	2345	97.0	1446	0.61	3.97	6.0	2036	3.2	254	1024.53	1027.9	2358	1023.1	1403	0.3
23	-0.55	1.3	51	-2.8	803	99.9	100.0	434	99.1	1400	-0.55	3.60	4.1	50	3.0	803	1028.54	1030.8	1000	1026.2	2355	0.2
24	7.49	10.5	1251	0.4	0	89.9	100.0	7	79.4	1349	5.88	5.74	6.4	949	3.8	0	1022.27	1026.3	14	1017.9	2358	0.1
25	7.19	9.7	641	3.0	2213	92.6	96.3	938	83.8	4	6.07	5.88	6.9	647	4.3	2212	1014.46	1018.0	0	1011.9	734	10.9
26	6.40	9.3	2240	0.1	737	89.3	99.3	800	77.1	1204	4.72	5.29	6.5	2245	3.7	737	1024.05	1027.1	2308	1016.7	20	0.2
27	11.14	12.5	1311	8.8	1	82.2	91.6	250	76.2	1606	8.21	6.67	7.2	1111	6.2	102	1025.29	1026.5	0	1024.2	646	0.2
28	10.28	11.5	1053	8.1	2359	79.6	92.4	2029	68.3	1343	6.88	6.14	7.0	2208	5.4	646	1017.64	1024.9	4	1007.2	2327	3.0
29	7.00	9.0	135	4.7	730	72.6	86.6	109	61.4	1258	2.37	4.52	6.0	112	3.8	609	1011.88	1019.2	2358	1007.0	112	0.3
30	6.39	8.9	1245	3.7	444	81.2	95.3	2243	66.5	1424	3.33	4.75	5.3	2244	4.2	444	1026.72	1029.7	2327	1019.1	1	0.0
31	6.17	8.4	1513	3.9	354	91.4	98.4	807	78.3	1827	4.85	5.27	5.7	2127	4.8	326	1028.80	1030.1	937	1026.8	2355	0.1
Total																						38.2
Mean	5.06	8.37		1.53		83.7	93.9		70.5		2.40	4.66	5.77		3.73		1020.63	1025.31		1015.62		
Max	12.48	14.60		9.00		99.9	100.0		99.1		10.60	8.08	9.31		6.21		1041.00	1041.97		1040.18		
Min	-1.44	1.31		-6.46		67.2	79.6		54.4		-2.97	2.98	3.34		2.17		984.43	993.90		976.84		

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