

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

MARCH 2009

Temperature (°C / °F)			Anomaly	Rank in the past 128 years			
Mean maximum	12.7	54.9	+2.1	12 th highest			
Mean minimum	2.5	36.5	-0.4	49 th highest			
Daily mean	7.6	45.7	+0.8	26 th highest			
Highest maximum	16.1	61.0	on 18 th	Lowest maximum	7.9	46.2	on 5 th
Highest minimum	7.8	46.0	on 31 st	Lowest minimum	-3.2	26.2	on 6 th
Mean grass minimum	-0.8	30.6	-0.7	Lowest grass minimum	-8.5	16.7	on 6 th
Mean earth @30 cm	7.3	45.1	+0.4	Earth @100 cm	7.4	45.3	
Frost duration (hrs)	38.0			Rain duration (hrs)	20.7		
Rainfall total (mm / in)	30.1	1.19	64 %	44 th lowest			
Highest daily fall	14.4	0.57	on 3 rd				
Number of: Dry days (<0.2mm)	20	Wet days (>0.9mm)	6	days ≥5mm	1		
Sunshine total (hrs)	176.1	Daily mean	5.68	178 %	Sunniest day	11.2	on 18 th
N° days with: Air frost	8	Ground frost	17	Snow falling	0	Snow lying	0
Thunder	0	Hail ≥5mm	0	Small hail/ice	4	Fog @09	0
						Nil sun	1
Air pressure MSL : Mean @09 GMT (mbar/in)	1016.0		+0.4	30.00			
Absolute highest	1036.6			30.61		on 17 th	
Absolute lowest	981.6			28.99		on 4 th	

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

Notes:

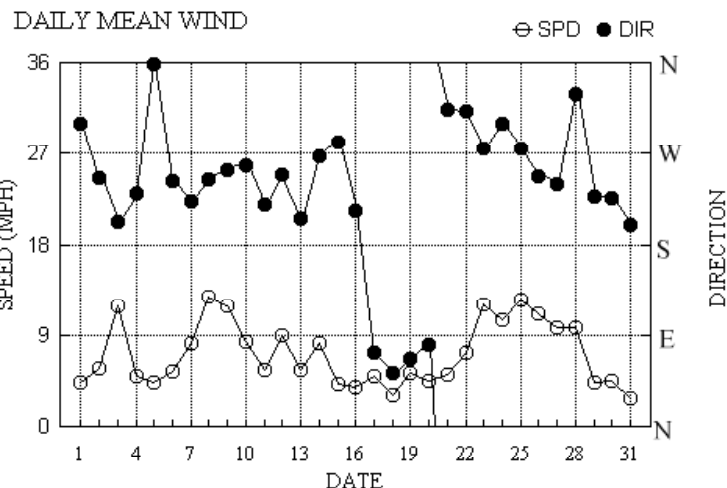
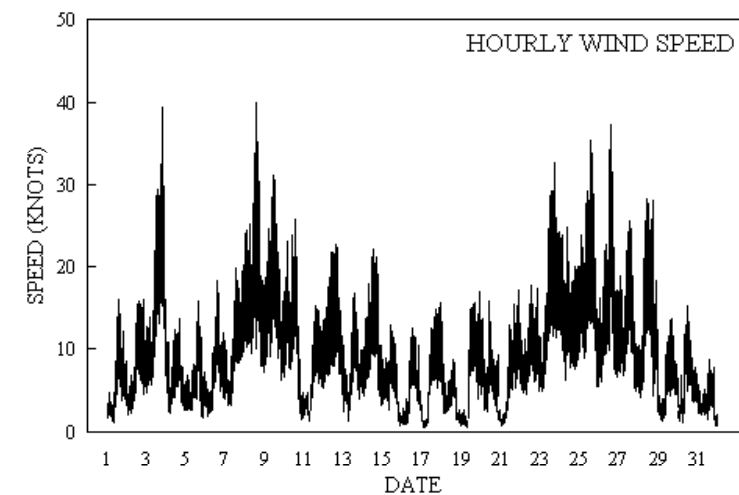
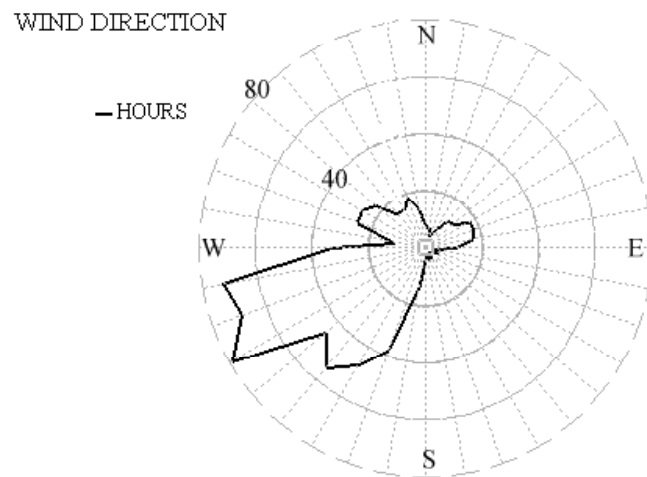
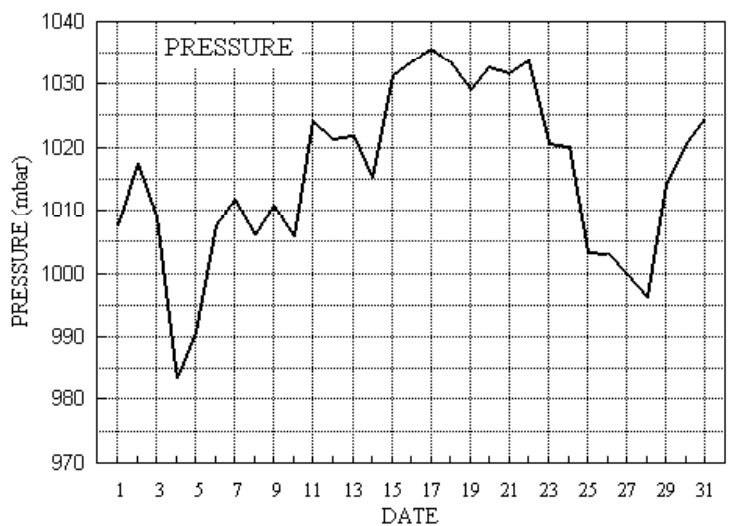
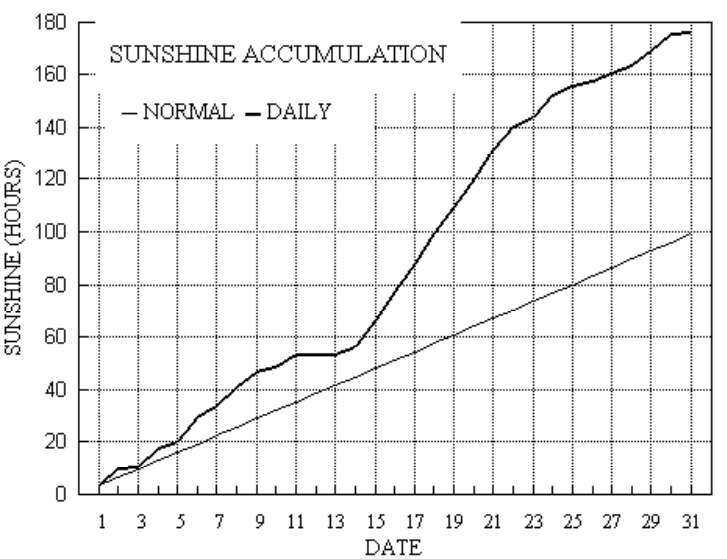
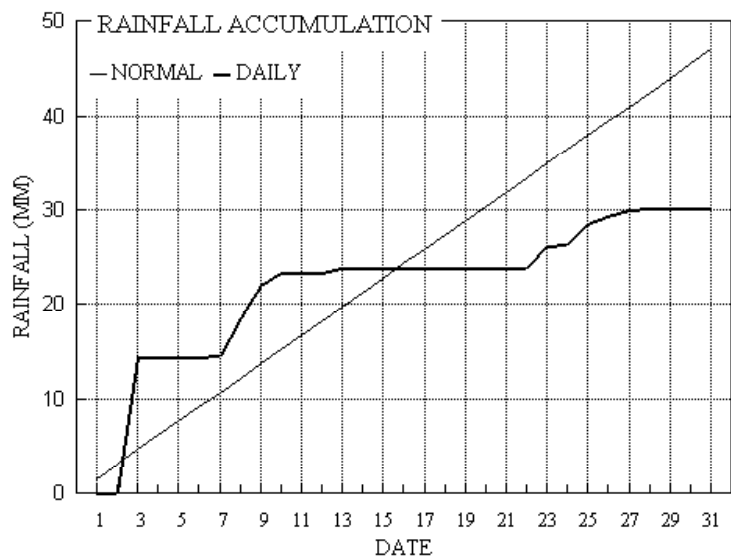
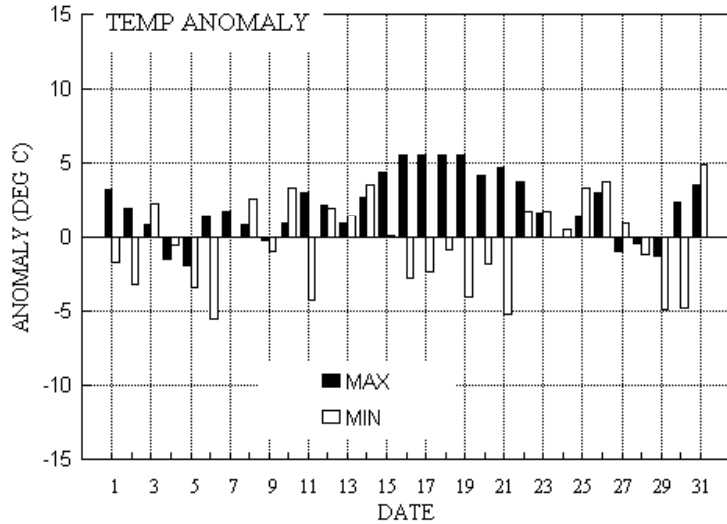
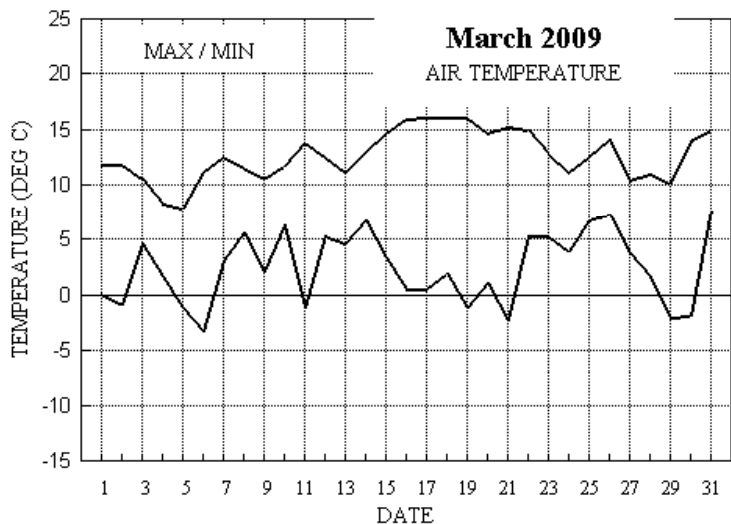
Mild and Very Sunny with Rainfall Below Normal.

Temperature : The mean maximum this month is over 2° above the current climatological average, and it ranks 12th highest since 1882. In recent years only 1997 and 2003 have had higher values. The mean minimum, however, has an anomaly of -0.4° from average, giving a mean temperature range of 10.2°, 2nd highest after 2003 since 1961. The period 15th to the 22nd, with mostly just thin high cloud giving mild sunny days and cool nights was mainly responsible for that high range. The highest max is 0.5° below the median, while the lowest max is 3.4° above the median. The highest min is 1.0° below the median while the lowest min is 0.9° above its median. Earth temperatures at both 30 cm and 1 m depth are close to normal. **Rainfall :** There was plenty of dry weather this month, the driest March since 2003. A 9 day dry spell ended on the 22nd, and the tail end of an 11 day one ended on the 2nd. Almost half the month's total fell on the 3rd, and of the other 10 rain days, 5 had falls of less than 1 mm. Small hail fell on the 4th, 23rd, 26th and 28th, all occasions having stones generally less than 3 mm dia. This is the first March without snowfall since 2003, the average being 2.7 days over the past 34 years. The duration of rainfall is lowest since 2003, and is 23.1 hours below average. **Sunshine :** This has been a very sunny March, similar to 2007 and 2003 in this respect. The period 15th to 22nd was outstanding, producing a total of 84.4 hours, a mean of 10.5 hours per day over the 8 days, 87 % of the maximum possible. Overall there were 10 days with <3 hours, 15 with =>6 hours and 9 with =>9 hours. **Wind :** The mean wind speed of 7.1 mph is 0.7 mph below average. The windiest day was the 8th, mean 12.8 mph, and the month's highest gust of 46 mph was also on that day. The 31st was the least windy day, mean speed 2.8 mph. There were 831 minutes, (13.8 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days : N,1 NE,2 E,2 SE,0 S,1 SW,13 W,7 NW,5. **Humidity :** The overall mean relative humidity was 71.3 %, and the lowest value was 31 % on the 20th. The mean water vapour content per kg of air was 4.7 g at 0900 GMT and 4.4 g at 1500 GMT. **Commentary: From the 1st to the 14th :** Temperatures generally fluctuated about normal, with anomalies for daily max between +3.2° on the 1st to -1.9° on the 5th, and for daily min between +3.3° on the 10th to -5.5° on the 6th. After a dry start, there was a fall of 14.4 mm on the 3rd and a further 9.4 mm fell between the 7th and 13th. Sunshine was generally above average. Light NW'ly winds on the 1st backed SW'ly and increased strong on the 3rd, became light N'ly on the 5th, returning to SW'ly and increasing strong on 8th, falling moderate on the 10th. **From the 15th to the 23rd :** A fine and warm spell saw daily max over 5° above normal from the 16th to the 19th. The anomalies for daily min were generally negative, down to -5.2° on the 21st. Dry until the 23rd, then 2.3 mm of rain. Exceptionally sunny. Mostly light winds were W'ly at first, becoming E'ly on the 17th, backing NW'ly on the 21st and increasing fresh by the 23rd. **From the 24th to the 31st :** Temperatures generally fluctuated about normal again, with anomalies for daily max between +3.5° on the 31st and -1.3° on the 29th, and for daily min, +3.8° on the 26th and -4.9° on the 29th. 3.9 mm of rain up to the 27th, then dry. Daily sunshine near or above normal. Winds, a fresh W'ly on 24th increased strong on the 26th, became fresh NW'ly on 28th, dropped light SW'ly on the 29th.

Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

1 st to the 10 th				11 th to the 20 th				21 st to the 31 st			
+0.7°	-0.7°	154 %	152 %	+4.0°	-0.9°	3 %	223 %	+1.6°	+0.1°	37 %	159 %

Wokingham Climatological Graphs for March 2009



Month: MARCH 2009

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	11.8	0.1	0.0	-4.0	6.8	6.8	3.2	0.0	1007.6	0 1 0 0	0 0 0 0	0 0 0 0	300	3.1 3.8	301 16 1454	300 8 14	0.0
2	11.8	-0.9	tr	-6.2	6.7	6.9	6.9	2.6	1017.5	1 1 0 0	0 0 0 0	0 0 0 0	246	4.8 5.0	253 16 2004	254 8 15	0.0
3	10.6	4.6	14.4	3.8	6.6	6.9	0.2	0.0	1009.0	0 0 0 0	0 0 0 0	0 0 0 0	203	10.1 10.3	193 40 1948	191 17 19	10.6
4	8.3	1.7	tr	-1.8	6.8	7.0	7.7	1.2	983.2	0 1 0 0	0 0 1 0	0 0 0 0	231	3.4 4.3	263 14 1535	255 7 15	0.0
5	7.9	-1.1	tr	-6.4	6.4	7.0	2.4	1.2	990.6	1 1 0 0	0 0 0 0	0 0 0 0	359	2.7 3.8	356 16 1505	352 8 15	0.0
6	11.2	-3.2	0.0	-8.5	5.9	7.0	9.3	7.1	1007.5	1 1 0 0	0 0 0 0	0 0 0 0	243	4.5 4.7	229 19 1307	237 9 13	0.0
7	12.6	3.1	0.2	1.0	5.9	6.9	4.0	0.0	1011.7	0 0 0 0	0 0 0 0	0 0 0 0	222	7.0 7.1	225 24 2355	222 12 23	0.2
8	11.6	5.7	4.0	2.7	6.6	6.9	7.2	0.0	1006.0	0 0 0 0	0 0 0 0	0 0 0 0	245	11.0 11.1	249 40 1331	237 17 13	1.4
9	10.6	2.1	3.5	-0.4	6.5	6.9	6.2	0.0	1010.7	0 1 0 0	0 0 0 0	0 0 0 0	253	10.1 10.3	267 31 1005	266 14 10	3.7
10	11.7	6.4	1.3	4.2	6.5	7.0	1.7	0.0	1005.7	0 0 0 0	0 0 0 0	0 0 0 0	258	5.6 7.2	304 26 1320	293 12 13	0.5
11	13.8	-1.1	tr	-5.6	6.5	6.9	4.6	4.6	1024.4	1 1 0 0	0 0 0 0	0 0 0 0	219	4.7 4.8	228 16 1437	230 8 14	0.0
12	12.5	5.3	tr	8.3	7.0	6.9	0.0	0.0	1021.3	0 0 0 0	0 0 0 0	0 0 0 0	249	7.7 7.7	256 23 1406	254 10 16	0.0
13	11.2	4.7	0.4	0.6	7.4	7.0	0.3	0.0	1021.9	0 0 0 0	0 0 0 0	0 0 0 0	205	4.5 4.9	207 17 1353	215 8 14	0.4
14	13.0	6.8	0.0	4.2	7.6	7.1	2.6	0.0	1015.1	0 0 0 0	0 0 0 0	0 0 0 0	267	5.9 7.0	290 22 1209	291 10 10	0.0
15	14.7	3.4	0.0	-1.4	7.5	7.2	10.1	0.0	1031.4	0 1 0 0	0 0 0 0	0 0 0 0	281	2.2 3.6	331 13 0944	315 6 10	0.0
16	15.9	0.5	0.0	-2.9	7.6	7.3	11.1	0.0	1033.5	0 1 0 0	0 0 0 0	0 0 0 0	214	3.1 3.3	183 13 1157	224 7 11	0.0
17	16.1	0.6	0.0	-2.7	7.7	7.4	10.6	0.0	1035.8	0 1 0 0	0 0 0 0	0 0 0 0	73	3.8 4.3	97 16 2211	87 7 17	0.0
18	16.1	2.0	0.0	-1.9	7.9	7.5	11.2	0.0	1033.6	0 1 0 0	0 0 0 0	0 0 0 0	52	2.5 2.7	63 12 0010	39 5 14	0.0
19	16.1	-1.1	0.0	-5.2	7.9	7.6	10.1	3.6	1029.1	1 1 0 0	0 0 0 0	0 0 0 0	66	4.1 4.5	80 17 2122	68 8 16	0.0
20	14.7	1.1	0.0	-4.0	7.9	7.7	10.9	0.0	1032.8	0 1 0 0	0 0 0 0	0 0 0 0	80	3.6 3.9	67 16 1053	94 6 11	0.0
21	15.2	-2.3	0.0	-6.9	7.8	7.6	11.1	6.0	1031.8	1 1 0 0	0 0 0 0	0 0 0 0	314	3.3 4.4	328 18 2151	329 8 21	0.0
22	14.9	5.3	0.0	2.5	7.9	7.7	9.3	0.0	1033.8	0 0 0 0	0 0 0 0	0 0 0 0	312	5.9 6.3	330 18 1319	328 8 13	0.0
23	12.8	5.3	2.3	2.2	8.2	7.7	3.2	0.0	1020.6	0 0 0 0	0 0 1 0	0 0 0 0	276	9.3 10.4	326 33 1744	307 14 18	0.6
24	11.1	4.0	0.2	1.7	7.9	7.8	8.5	0.0	1020.2	0 0 0 0	0 0 0 0	0 0 0 0	300	7.3 9.1	344 25 0837	321 12 01	0.3
25	12.5	6.8	2.1	5.3	8.1	7.8	3.4	0.0	1003.3	0 0 0 0	0 0 0 0	0 0 0 0	276	10.3 10.8	294 36 1344	288 15 13	1.5
26	14.1	7.3	0.9	4.3	8.1	7.9	2.1	0.0	1003.2	0 0 0 0	0 0 1 0	0 0 0 0	247	9.3 9.6	261 37 1446	258 17 14	0.8
27	10.5	3.8	0.7	0.9	8.1	7.9	2.8	0.0	999.9	0 0 0 0	0 0 0 0	0 0 0 0	239	8.4 8.5	250 26 1354	246 13 12	0.5
28	11.0	1.7	0.1	-1.5	7.9	8.0	2.9	0.0	996.2	0 1 0 0	0 0 1 0	0 0 0 0	329	6.4 8.5	344 28 1039	331 14 10	0.2
29	10.2	-2.0	0.0	-7.2	7.6	8.0	5.3	5.3	1014.1	1 1 0 0	0 0 0 0	0 0 0 0	228	3.4 3.7	246 14 1746	232 6 17	0.0
30	13.9	-1.9	0.0	-7.0	7.4	7.9	6.7	6.4	1020.7	1 1 0 0	0 0 0 0	0 0 0 0	226	3.7 4.0	234 16 1149	230 7 09	0.0
31	15.0	7.8	0.0	6.5	8.0	7.9	0.5	0.0	1024.6	0 0 0 0	0 0 0 0	0 0 0 0	199	0.1 2.4	31 9 1404	357 4 14	0.0
Total			30.1				176.1	38.0									20.7
Mean	12.7	2.5		-0.8	7.3	7.4	5.68	1.2	1016.0					256	3.8 6.2		
Anom	+2.1	-0.4	64%		+0.4	-0.1	178%		+0.4								
Daily mean		7.6															
Anom		+0.8															

Number of days with:

Air frost = 8 Ground frost = 17 Nil sun = 1
Snow falling = 0 Snow lying = 0 Thunder = 0
Hail=>5mm = 0 Hail<5mm or ice = 4 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 March 2009

Date	VV	N	dd	ff	gg	TT	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	NCh	shs	NCh	shs	Date	Remarks
1	57	8	31	02	05	6.1	3.0	80	4.7	1007.6	3	007	05	2	2	8	6	4	/	/	88712			1		
2	75	0	26	04	08	4.6	1.6	80	4.3	1017.5	1	013	02	0	0	0	0	9	0	0	0			2		
3	70	7	21	08	15	8.5	6.0	84	5.8	1009.0	7	027	02	6	2	7	5	4	/	1	84710	84656		3	2Sc30 /Ci75 COTRA	
4	82	2	25	04	08	3.7	1.0	83	4.2	983.2	3	011	01	1	1	1	6	4	4	3	81712			4	1Ac65 1Ci70 1Cs72 2Ci75 Cs edge E Cb top W	
5	62	8	02	04	08	2.6	0.9	89	4.1	990.6	2	039	60	6	2	2	8	5	2	/	81825	87550		5	2Sc30 /As60	
6	80	0	26	03	06	3.1	-1.3	72	3.5	1007.5	2	015	02	0	0	0	0	9	0	0	0			6	Hoar mod Gnd frzn	
7	59	7	23	05	10	8.1	5.4	83	5.5	1011.7	2	005	05	2	2	2	6	3	3	1	82708	87080		7	1Sc50 1Ac65 COTRA	
8	81	1	25	10	20	7.4	-0.5	57	3.6	1006.0	2	013	03	0	0	1	1	5	0	0	81828			8		
9	80	1	26	11	24	7.1	-0.1	60	3.8	1010.7	1	023	03	0	0	1	1	5	0	0	81825			9	Cu fra	
10	75	6	26	08	16	9.7	6.2	78	6.0	1005.7	3	011	03	6	1	6	8	4	0	0	81815	86650		10	Cu fra	
11	58	7	21	04	06	5.3	3.4	88	4.8	1024.4	1	012	05	2	2	1	5	6	7	1	81640	85359	87362	11	/Ci75	
12	84	8	25	09	16	10.4	6.5	77	5.9	1021.3	3	003	02	2	2	8	5	4	/	/	86615	88620		12		
13	58	7	18	04	07	9.2	6.5	83	6.0	1021.9	0	001	05	2	2	7	5	4	/	1	82612	86615	87075	13	2Sc50 COTRA	
14	67	7	26	08	15	11.0	5.0	67	5.4	1015.1	2	022	03	2	2	7	5	4	/	/	81718	87645		14		
15	75	6	27	04	09	9.0	3.1	66	4.7	1031.4	2	017	02	1	1	0	0	9	0	1	81075	86080		15	COTRA 1Ci cas	
16	59	6	19	03	07	8.8	4.4	74	5.1	1033.5	1	004	05	2	2	1	0	9	3	1	81368	85080		16	2Cs75 COTRA	
17	58	7	05	05	09	8.9	5.1	77	5.3	1035.8	1	012	05	2	2	0	0	9	0	1	87078			17	COTRA	
18	45	5	06	03	06	6.7	4.4	85	5.1	1033.6	7	007	05	1	1	0	0	9	0	1	85080			18	COTRA	
19	40	0	05	03	06	7.4	4.4	81	5.0	1029.1	2	011	05	1	1	0	0	9	0	0				19		
20	25	1	06	05	08	6.9	3.7	80	4.9	1032.8	3	009	05	1	1	1	6	4	0	1	81710			20	1Ci80 COTRA	
21	58	1	26	03	08	5.8	-0.7	63	3.5	1031.8	0	002	05	0	0	1	5	6	0	1	81640			21	1Ci81 COTRA	
22	81	3	34	07	13	8.9	2.0	62	4.2	1033.8	1	010	02	1	1	0	0	9	0	1	83078			22	COTRA Elevated hz lyr	
23	63	7	26	08	17	8.8	4.4	74	5.1	1020.6	7	021	03	2	2	1	8	4	3	1	81818	86080		23	1Sc30 1Ac65 2Cc72 COTRA Cu fra Parhelia	
24	86	2	34	09	25	6.9	-2.2	52	3.2	1020.2	1	017	03	0	0	1	1	6	0	5	81835			24	1Cs250 2Ci280 COTRA Cu hum Cs edge W	
25	81	6	28	13	28	9.3	1.7	59	4.3	1003.3	7	002	03	1	1	6	8	5	/	2	83828	85635		25	/Ci72 Cu hum	
26	68	8	23	09	20	8.2	6.7	90	6.1	1003.2	7	022	63	6	2	7	6	4	2	/	82712	87715	88540	26		
27	72	7	22	10	18	5.9	1.5	73	4.3	999.9	7	004	03	2	2	1	8	4	1	/	81818	87462		27	1Sc25 Cu fra	
28	84	7	33	13	26	6.6	0.4	65	3.9	996.2	3	035	01	6	2	7	5	5	/	2	87625			28	/SC40 /Ci75	
29	70	3	24	02	06	5.0	-0.2	69	3.8	1014.1	2	009	01	1	1	3	8	5	0	0	81820			29	1Cu45 2Sc56 Cu hum Cu med	
30	65	3	22	07	12	8.3	2.6	67	4.5	1020.7	2	015	03	0	0	1	5	6	0	1	81645	83080		30	COTRA	
31	61	8	20	02	04	9.4	4.6	72	5.2	1024.6	2	011	02	2	2	8	8	6	/	/	81837	88640		31	Cu hum	

Mean vis = 21.2 km

Mean cloud = 4.8 60%

Mean wind speed = 6.1 kn

Mean gust = 12 kn

Mean TT = 7.3 °C

Mean TdDd = 2.9 °C

Mean RH = 73.9 %

Mean r = 4.7 g/kg

Mean PPP = 1016.0 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

TdDd = 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 March 2009

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	h	NChs	h	Date	Remarks
1	65	7	29	09	16	10.4	2.7	59	4.6	1007.8	3	002	03	1	1	7	8	6	/	/	83830	87635				1	Cu hum	
2	81	4	25	07	13	11.1	0.4	48	3.8	1016.3	7	015	03	1	1	2	8	6	0	4	82840	83075				2	1Sc50 Cu hum	
3	72	8	19	14	28	9.0	3.8	70	5.0	999.3	7	058	60	8	6	7	8	5	2	/	85820	86630	88462			3		
4	86	4	27	05	12	6.3	-4.2	47	2.9	982.9	6	005	15	8	1	2	9	6	0	3	81940	82845	83070			4	jp W&SW	
5	63	5	35	08	15	7.3	-1.6	53	3.4	996.2	2	024	02	8	1	2	2	6	0	2	82835	84070				5	Cu med	
6	82	3	26	07	18	10.5	-0.5	46	3.7	1006.2	8	007	02	1	1	2	8	6	7	1	82845					6	1Sc50 1Ac62 2Ac64 1Ci68 Cu med	
7	80	8	23	09	18	11.7	3.4	56	4.9	1010.0	7	010	03	2	2	7	5	7	7	/	87650	88465				7	/Ac59	
8	70	7	24	12	24	6.0	2.7	79	4.6	1001.8	6	026	25	8	2	3	9	4	6	3	81818	83925	86068			8	2Ac62 jpSW vv60k ex SW	
9	80	7	26	10	22	10.1	-1.1	45	3.5	1013.0	1	007	25	8	2	3	8	6	0	1	83845	84078				9	1Sc56 COTRA jpE	
10	70	7	30	11	21	11.4	4.0	60	5.1	1010.4	2	025	15	2	2	7	8	6	/	/	83830	87645				10	Cu med jpNW&N vv 40k ex p	
11	75	7	24	08	16	12.9	4.5	57	5.3	1023.0	8	012	03	1	1	5	8	6	0	1	81832	85635	87075			11	COTRA Cu hum	
12	82	8	25	10	23	11.6	7.9	78	6.6	1020.5	7	005	01	6	5	7	5	4	/	8	81712	86618				12	/Sc56 /Cs70	
13	84	7	21	08	16	10.5	3.5	62	4.9	1018.9	6	021	02	2	2	7	8	5	/	/	81828	87635				13	Cu hum	
14	80	5	29	08	21	12.1	0.4	45	4.1	1018.6	2	014	02	2	2	5	5	6	0	0	85645					14		
15	81	7	33	04	11	14.1	2.9	47	4.6	1031.4	6	001	03	2	2	1	5	6	0	8	81645	87275				15	COTRA Halo 22 part	
16	75	7	24	05	11	15.2	3.3	45	4.7	1031.8	7	012	02	2	2	0	0	9	0	1	87078					16	COTRA	
17	65	7	09	06	12	15.4	4.3	47	5.0	1035.0	7	009	03	2	2	1	5	6	0	1	81640	87078				17	COTRA	
18	59	5	05	06	08	15.6	2.8	42	4.8	1029.8	8	024	05	2	2	0	0	9	0	1	85080					18	COTRA	
19	59	1	07	08	15	14.7	3.9	48	5.0	1028.5	6	005	05	0	0	1	1	6	0	1	81840					19	1Ci75 Cu hum	
20	65	7	08	04	09	13.9	-0.9	36	3.7	1030.9	7	015	03	1	1	0	0	9	0	1	87080					20	COTRA U/a cont	
21	59	7	27	05	11	14.7	2.5	44	4.6	1029.5	7	013	05	2	2	0	0	9	0	1	87081					21	COTRA	
22	83	6	32	09	16	13.7	3.3	49	4.7	1030.8	7	020	01	1	1	1	4	6	0	1	81840	86078				22	1Sc40 1Ci75 COTRA Cu hum	
23	72	7	26	13	27	10.7	4.7	66	5.3	1013.9	7	029	15	2	2	7	8	5	/	/	82828	87635				23	jp NW	
24	83	2	29	09	18	11.1	-1.7	41	3.4	1018.3	8	017	02	1	1	1	4	6	4	1	81848					24	1Sc50 1Ac68 2Ci75 Cu hum	
25	65	7	30	11	30	11.6	2.4	53	4.6	1004.8	3	006	25	8	2	7	8	6	/	/	85835	83650				25	Cu med jp W&N vv 50k ex p	
26	62	7	26	17	37	12.9	4.2	55	5.2	998.6	5	024	80	6	1	7	8	5	/	/	82825	84835	85650			26	Cu med jp W&N	
27	86	6	24	12	25	9.6	-0.4	50	3.8	996.2	7	020	02	2	2	3	8	6	0	1	83840	83075				27	1Sc45 Cu med	
28	70	6	33	12	25	10.7	-1.2	43	3.5	1002.7	2	025	15	8	1	4	2	6	6	0	81832	84840				28	3Ac57 jp N&E vv 40km ex p	
29	83	5	23	06	14	8.7	-2.8	44	3.2	1013.0	6	006	02	2	2	5	4	6	0	0	84845					29	2Sc56 Cu med	
30	84	7	25	06	11	11.9	1.3	48	4.1	1020.9	5	002	03	1	1	7	8	6	/	/	82840	87645				30	Cu hum	
31	82	8	35	04	09	13.0	3.5	52	4.7	1023.2	7	010	02	2	2	8	8	6	/	/	81838	88642				31	Cu hum	

Mean vis = 29.1 km

Mean cloud = 6.1 76%

Mean wind speed = 8.5 kn

Mean gust = 18 kn

Mean TT = 11.6 °C

Mean Td = 1.9 °C

Mean RH = 52.1 %

Mean r = 4.4 g/kg

Mean PPP = 1015.0 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

Td = 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.

March 2009	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	6.93	11.8	1420	0.2	2	71.8	93.9	46	51.4	1652	1.93	4.39	5.6	1200	3.6	2346	1008.83	1013.9	2359	1006.7	623	0.0
2	5.87	11.6	1320	-1.2	651	71.5	94.7	715	43.7	1338	0.70	4.00	5.1	2311	3.2	651	1016.22	1018.0	1036	1013.8	0	0.1
3	7.78	10.6	1138	4.4	2354	81.4	89.4	2335	61.9	1245	4.73	5.37	5.9	949	4.7	2350	1002.08	1015.3	12	984.3	2358	11.4
4	3.99	7.9	1248	-1.2	2318	74.6	93.5	2358	42.8	1507	-0.52	3.80	5.0	154	2.6	1507	982.98	984.4	4	981.6	348	2.0
5	2.95	7.9	1518	-0.8	10	78.5	94.2	517	46.7	1540	-0.70	3.68	4.3	1140	3.0	1610	993.35	1003.5	2357	983.5	222	0.1
6	4.35	11.0	1350	-3.3	643	71.0	94.1	650	41.1	1445	-0.94	3.59	4.8	2359	2.8	643	1006.76	1009.4	2352	1003.5	0	0.1
7	9.00	12.5	1231	5.6	614	77.2	92.0	722	50.4	1306	5.02	5.46	6.7	2106	4.3	1322	1009.41	1012.2	1027	1003.6	2357	0.0
8	6.65	11.6	1237	1.8	2054	70.3	90.6	201	41.5	1238	1.33	4.31	7.0	206	3.2	1131	1003.89	1006.3	2359	1001.1	1504	4.1
9	6.65	10.6	1454	2.6	0	63.9	82.1	0	41.1	1354	0.10	3.84	4.7	2358	3.1	1248	1011.22	1014.2	1922	1006.2	31	0.1
10	7.85	11.8	1426	1.4	2359	81.2	95.2	2346	57.3	1429	4.63	5.31	6.3	817	3.9	2359	1010.67	1020.6	2344	1004.2	651	4.5
11	6.81	13.6	1445	-1.1	601	80.8	96.4	544	51.3	1423	3.42	4.90	6.8	2352	3.3	601	1023.09	1024.5	853	1020.5	0	0.1
12	10.36	12.5	1311	8.1	2356	81.8	89.4	2359	72.8	1155	7.37	6.32	7.0	1343	5.8	639	1021.26	1022.4	114	1020.2	1544	0.1
13	8.47	11.2	1417	4.3	638	77.5	94.5	738	58.2	1530	4.63	5.27	6.8	1145	4.4	1702	1019.72	1022.5	209	1014.5	2358	0.3
14	9.57	13.0	1524	4.9	2252	64.5	90.3	614	41.1	1521	2.82	4.68	6.3	541	3.7	1527	1017.92	1026.6	2359	1012.5	323	0.1
15	8.61	14.7	1528	3.0	145	67.2	91.7	2359	43.7	1343	2.47	4.46	5.1	2054	3.8	142	1030.96	1033.6	2309	1026.5	5	0.0
16	8.26	15.7	1415	0.4	503	71.8	95.0	512	40.4	1528	2.79	4.56	5.8	1044	3.6	635	1032.82	1033.9	805	1031.1	1644	0.0
17	7.81	15.8	1438	0.5	617	75.6	95.2	631	43.7	1442	3.27	4.72	5.8	1251	3.6	617	1035.14	1036.6	2042	1032.9	0	0.0
18	8.11	16.0	1503	1.8	613	73.2	94.8	652	37.7	1612	2.96	4.61	5.6	1152	3.9	2333	1031.79	1036.3	5	1028.4	2348	0.0
19	6.55	15.7	1343	-1.0	605	76.1	95.2	559	41.4	1351	2.17	4.41	5.7	1006	3.3	605	1029.26	1032.1	2359	1027.8	513	0.0
20	7.38	14.4	1511	0.9	525	66.7	94.4	706	31.1	1629	0.66	3.93	5.3	936	2.9	1629	1031.68	1032.9	900	1030.2	1658	0.1
21	7.08	15.2	1538	-2.2	603	68.5	94.2	455	38.0	1526	0.89	4.03	5.3	2212	2.9	558	1030.90	1032.1	751	1028.8	1700	0.0
22	10.02	15.0	1405	5.1	633	64.5	84.1	117	45.9	1413	3.35	4.74	5.4	1200	4.1	927	1031.46	1034.0	901	1028.1	2356	0.0
23	7.93	12.9	1208	5.0	528	68.4	89.8	606	50.8	1849	2.26	4.49	5.8	1552	3.2	2118	1018.79	1028.2	0	1013.2	1535	2.2
24	7.51	11.2	1459	3.8	612	55.5	76.1	2359	37.4	1431	-1.04	3.52	4.7	2359	2.9	1149	1017.03	1020.7	926	1009.1	2359	0.1
25	9.25	12.6	1325	6.8	0	64.0	84.0	205	47.5	1343	2.62	4.62	5.7	204	4.1	1038	1005.67	1009.3	2358	1002.8	805	0.3
26	8.91	14.2	1423	5.4	2355	71.4	90.3	908	49.8	1425	3.89	5.11	7.0	1151	3.9	1926	1002.77	1009.3	12	998.1	1423	3.0
27	6.17	10.5	1248	2.5	2358	70.0	90.0	2358	46.9	1546	0.92	4.12	5.1	1053	3.5	1546	997.91	1002.0	3	993.6	2359	0.4
28	5.82	11.1	1515	0.7	2359	68.2	92.0	213	39.2	1323	0.01	3.86	4.7	715	3.0	2313	1000.60	1012.1	2355	992.3	402	0.6
29	4.28	10.2	1415	-2.1	357	68.1	92.4	457	36.5	1541	-1.62	3.38	4.3	956	2.7	1541	1013.80	1017.2	2359	1011.8	17	0.0
30	6.77	13.4	1301	-2.0	537	67.7	94.8	657	42.0	1256	0.61	3.96	4.8	1150	3.0	537	1020.66	1023.8	2346	1017.1	0	0.1
31	9.65	14.4	1231	3.0	2358	65.9	89.8	2359	44.2	1245	3.34	4.77	6.0	1118	4.1	1253	1023.59	1024.7	903	1022.4	1655	0.0
Total																						29.8
Mean	7.33	12.60		1.84		71.3	91.42		45.72		2.07	4.46	5.63		3.55		1015.55	1019.76		1011.30		
Max	10.36	15.97		8.07		81.8	96.40		72.80		7.37	6.32	7.00		5.78		1035.14	1036.62		1032.93		
Min	2.95	7.90		-3.30		55.5	76.10		31.09		-1.62	3.38	4.25		2.62		982.98	984.38		981.64		

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