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 **APRIL 2008**

Temperature (°C / °F)			Anomaly	Rank in the past **127** years			
Mean maximum	13.9	57.0	+0.8	46th highest			
Mean minimum	4.0	39.2	-0.1	51st highest			
Daily mean	8.9	48.0	+0.3	45th highest			
Highest maximum	20.6	69.1	on 26th	Lowest maximum	6.2	43.2	on 6th
Highest minimum	10.3	50.5	on 3rd	Lowest minimum	-2.7	27.1	on 8th
Mean grass minimum	0.2	32.4		Lowest grass minimum	-7.9	17.8	on 8th
Mean earth @30 cm	9.4	48.9	0.0	Earth @100 cm	10.0	50.0	
Frost duration (hrs)	26.5			Rain duration (hrs)	39.1		
Rainfall total (mm / in)	61.7	2.43	126 %	33rd highest			
Highest daily fall	17.4	0.69	on 29th				

Number of: Dry days (<0.2mm)	11	Wet days (>0.9mm)	11	days ≥5mm	5				
Sunshine total (hrs)	153.6	Daily mean	5.12	119 %		Sunniest day	11.2	on 17th	
No days with: Air frost	7	Ground frost	14	Snow falling	1	Snow lying	1		
Thunder	7	Hail ≥5mm	3	Small hail/ice	4	Fog @09	0	Nil sun	2

Air pressure MSL : Mean @09 GMT (mbar/in)	1010.7	-4.6	29.85	
Absolute highest	1031.4		30.46	on 3rd
Absolute lowest	986.3		29.13	on 30th

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

Notes: **Temperature above normal, Sunshine near normal, Wet**

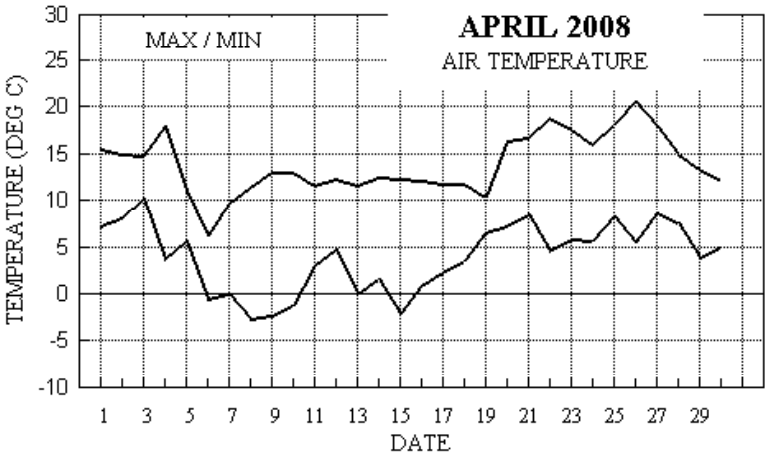
Temperature: After the record breaking warmth of April 2007, this past month gave us a taste of normality, with temperatures not far from the climatological average. The daily mean temperature, however, is lowest since 2001. The highest maximum is exactly on the median, but the lowest max is 1.4° below the median and lowest since 2000. The lowest min is 0.8° below the median and is lowest since 2003, while the highest min is 0.3° above the median. The mean grass min is lowest since 2003, but the lowest grass min is only lowest since 2006. Earth temperatures were close to average. The number of days with an air frost is 3 above average and has not been exceeded since 1977. The number of hours with air frost is 10 more than average and most since 2003. **Rainfall:** Until the 28th, rainfall accumulation was over 10 mm below normal, but the combined fall of 22.7 mm in the two final days brought the total up into the wet category. The fall of 17.4 mm on the month's wettest day is highest since 2000, and ranks 16th highest for April in 105 years. Snow fell on the 6th and had accumulated to a depth of 6 cm by 0900 GMT, making this the first April with lying snow at that time since 1989. Both thunder and hail were more frequent than normal, and both were the most since 1998. The highest rainfall rate this month was 39 mm/hr on the 13th and 27th. The number of dry days is 6 fewer than average. **Sunshine:** This April was reasonably sunny, ending up nearly 20 % above average. The period 8th to 17th took the surplus to over 30 hours above average, though this had fallen back to over 20 hours by the end of the month. Overall there were 11 days with <3 hours, 14 with =>6 hours and 5 with =>9 hours. **Wind:** The mean wind speed this April, 7.0 mph, is close to average, but is highest since 2002. The windiest day was the 18th, mean speed 12.2 mph, but the month's highest gusts of 37 mph were on the 1st, 17th and 18th. The 9th was the least windy day, mean 3.5 mph, and there were 353 minutes (5.9 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,1 NE,6 E,1 SE,1 S,2 SW,11 W,5 NW,3. **Humidity:** The mean relative humidity was 74.1 % and the lowest value was 28 % on the 9th. The mean water vapour content per kg of air was 5.5 g at 0900 GMT and 5.0 g at 1500 GMT. **Commentary:** The month started mild, with temperatures generally 4° to 6° above normal up to the 4th. Although it was dry it was also quite cloudy. A fresh SW'ly wind on the 1st veered NW'ly and dropped light by the 3rd. Cooler conditions set in on the 5th and persisted until the 19th. Temperatures were generally below normal, with anomalies of –6.0° for both max on the 6th and min on the 8th. Rain fell on 8 of the 15 days, but amounts were quite small except on the 13th when 8 mm fell. Sunshine was reasonable overall. Light or moderate winds were NW'ly, backing SW'ly by 8th, and became E'ly on 16th, increasing fresh on the 17th. From the 20th until the 27th temperatures were once again above normal, with an anomaly of +6.0° for the max on the 26th. Dry on the 25th and 26th, otherwise some rain, and fairly cloudy with the 26th the sunniest day. NE'ly winds were fresh on the 21st, then light or moderate, becoming SW'ly on the 23rd. The month ended on a cool, wet note, mostly overcast, with winds from between SW and SE.

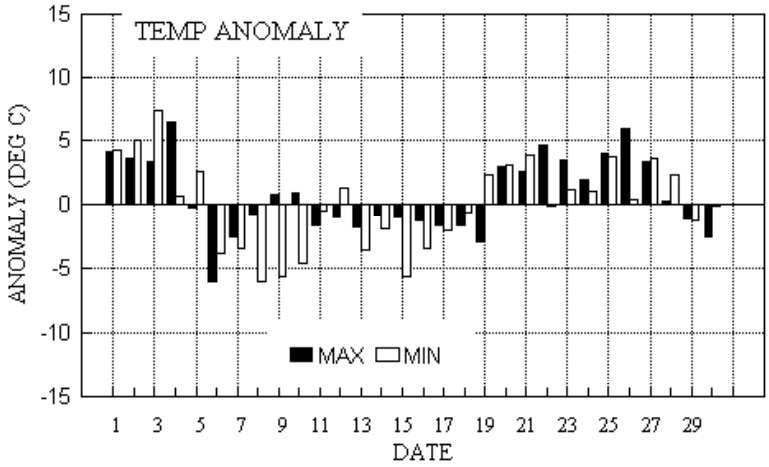
Mean anomalies for specified periods (max, min, rain, sun)

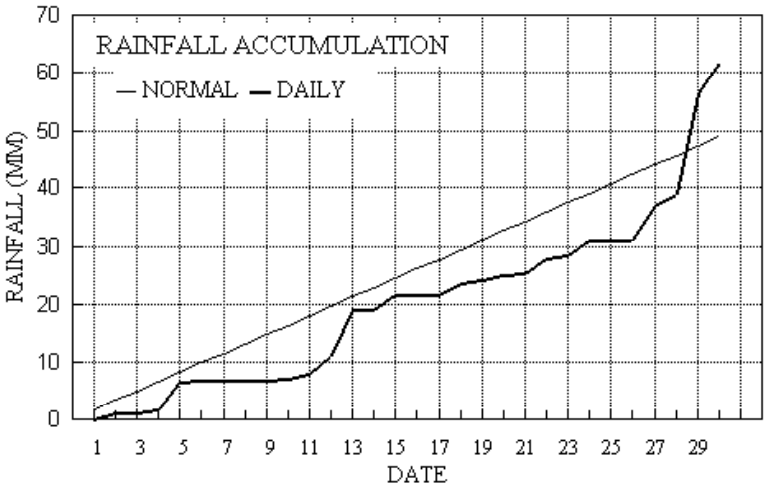
1st to the 10th				11th to the 20th				21st to the 30th			
+1.0°	-0.4°	43 %	133 %	-1.1°	-1.1°	110 %	128 %	+2.3°	+1.5°	227%	95 %

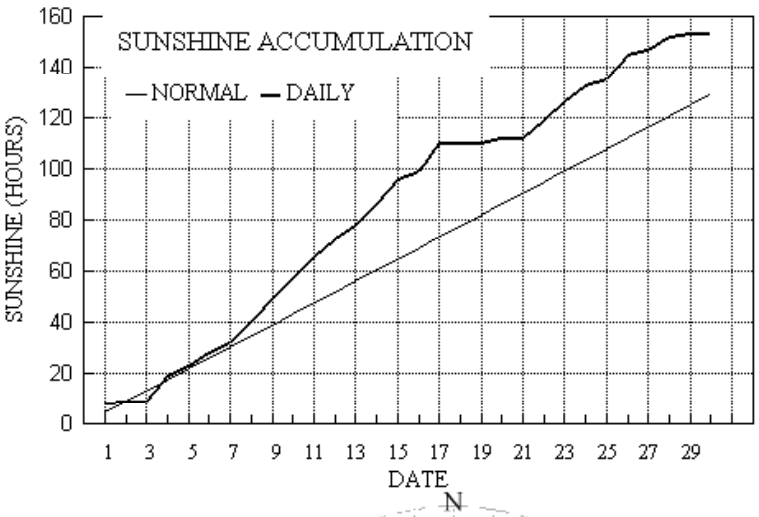
B J Burton. FRMetS. Hon. Met. Officer to Wokingham Town Council.

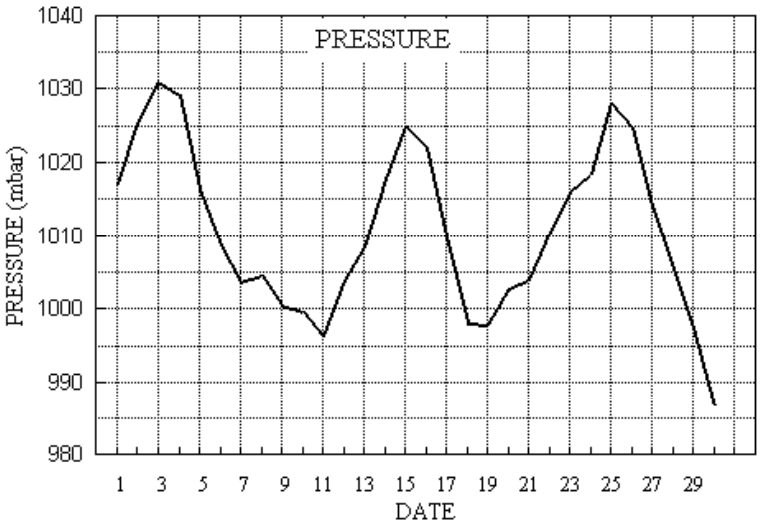
Wokingham climatological graphs for April 2008

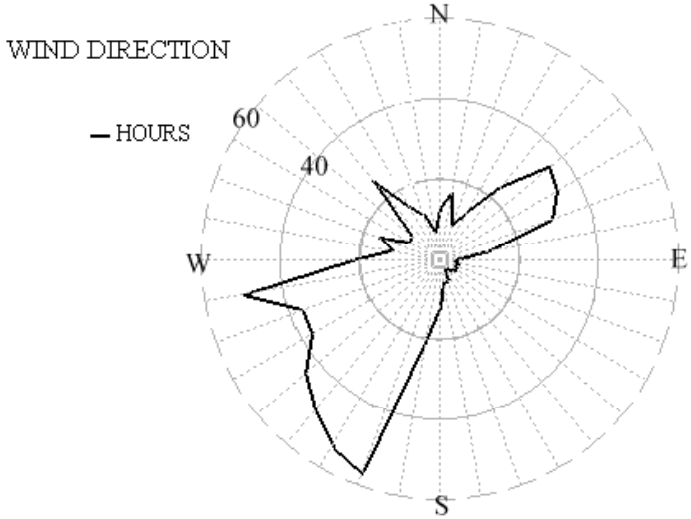


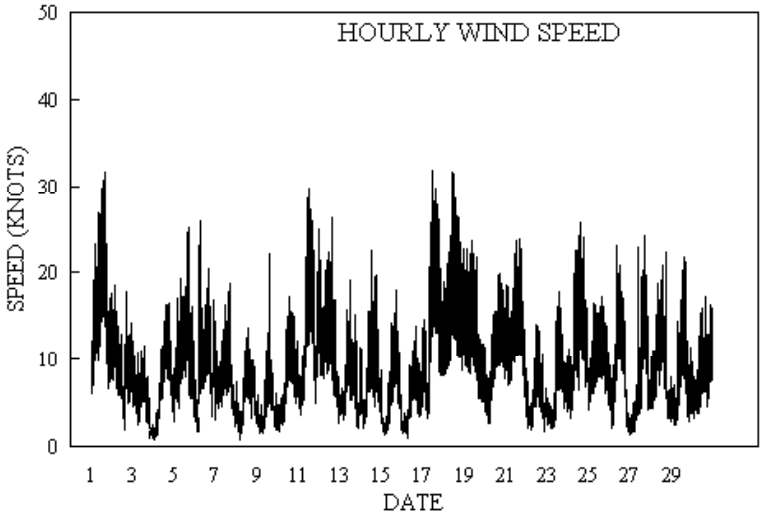


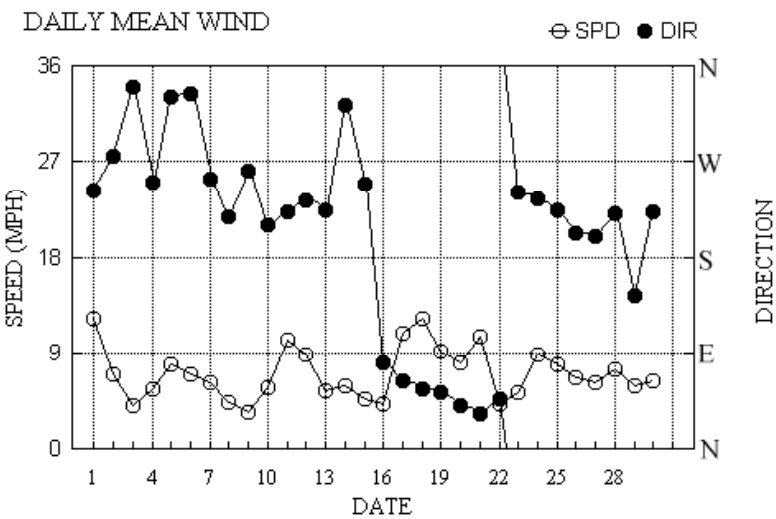












Daily meteorological data. Emmbrook, WOKINGHAM, Berkshire.

Month: APRIL 2008

Date	Max	Min	Rain	Grass	30cm	100cm	Sun	Frost	pp09	Af	Sf	Th	Ic	Vec mean			Max gust			High hr			Rain
	C	C	mm	Min	C	C	hrs	hrs	mbar	Gf	Sl	Ha	Fg	ddd	ff	sp	ddd	gg	HHhh	ddd	ff	HH	hrs
1	15.5	7.3	tr	3.8	8.3	8.9	8.4	0.0	1017.1	0 0 0 0		0 0 0 0		243	9.8	10.6	263	32	1610	261	16	14	0.1
2	15.0	8.1	0.9	5.5	8.6	9.0	0.3	0.0	1025.3	0 0 0 0		0 0 0 0		276	5.5	6.1	259	19	0313	257	9	03	3.8
3	14.8	10.3	0.0	10.0	9.0	9.2	0.0	0.0	1030.9	0 0 0 0		0 0 0 0		341	3.1	3.5	328	12	0014	321	6	00	0.0
4	17.9	3.7	0.6	-0.1	9.2	9.3	10.4	0.0	1029.1	0 1 0 0		0 0 0 0		251	4.6	4.9	256	17	1724	262	9	14	1.0
5	11.1	5.6	5.0	1.1	9.8	9.5	3.8	0.0	1016.5	0 0 0 0		0 0 1 0		331	5.6	6.8	356	25	1709	2	11	15	xx
6	6.2	-0.6	0.3	-4.8	9.1	9.7	5.3	2.8	1008.5	1 1 1 1		1 0 0 0		334	5.3	6.0	17	26	0616	13	9	06	xx
7	9.7	-0.1	tr	-3.4	8.3	9.8	3.8	1.3	1003.7	1 1 0 0		0 0 1 0		253	4.8	5.4	231	19	1656	223	8	16	0.1
8	11.4	-2.7	tr	-7.9	7.9	9.7	8.3	6.7	1004.6	1 1 0 0		0 0 0 0		218	3.6	3.7	204	14	1318	201	7	13	0.0
9	13.0	-2.3	0.0	-7.5	7.9	9.7	9.0	6.3	1000.4	1 1 0 0		0 0 0 0		262	2.1	3.0	211	22	1415	289	6	14	0.0
10	13.1	-1.3	0.1	-6.6	8.0	9.6	7.7	5.1	999.5	1 1 0 0		0 0 0 0		211	4.8	5.0	220	17	1347	214	8	16	0.2
11	11.7	3.0	0.9	-1.7	8.2	9.6	8.4	0.0	996.3	0 1 0 0		1 0 1 0		223	8.2	8.9	239	30	1143	248	14	13	0.6
12	12.4	4.8	3.3	1.5	8.3	9.5	7.6	0.0	1003.9	0 0 0 0		1 1 0 0		233	7.6	7.7	258	27	1421	216	11	13	0.7
13	11.6	-0.1	8.0	-5.1	8.5	9.6	4.9	0.1	1008.3	1 1 0 0		1 0 1 0		225	3.7	4.8	261	19	1227	225	7	09	4.3
14	12.5	1.6	tr	-3.5	8.6	9.6	8.4	0.0	1017.8	0 1 0 0		0 0 0 0		323	4.5	5.1	320	23	1308	289	8	13	0.2
15	12.4	-2.1	2.6	-7.8	8.6	9.7	9.8	4.2	1024.9	1 1 0 0		0 0 0 0		249	3.0	4.0	339	18	1739	289	8	17	2.2
16	12.1	0.8	0.0	-2.1	8.8	9.7	2.7	0.0	1022.0	0 1 0 0		0 0 0 0		80	3.0	3.6	65	14	1602	68	6	16	0.0
17	11.8	2.2	0.0	-2.5	8.8	9.8	11.2	0.0	1010.0	0 1 0 0		0 0 0 0		64	9.3	9.4	70	32	1141	63	14	13	0.0
18	11.8	3.6	2.0	0.8	8.9	9.8	0.1	0.0	998.1	0 0 0 0		0 0 0 0		56	10.5	10.6	58	32	1031	66	15	11	3.7
19	10.4	6.5	0.5	5.6	8.9	9.9	0.0	0.0	997.7	0 0 0 0		0 0 0 0		52	7.9	7.9	55	24	0856	53	11	09	2.4
20	16.4	7.3	0.8	7.1	8.9	9.9	2.1	0.0	1002.8	0 0 0 0		0 0 0 0		40	6.9	6.9	28	20	1741	29	10	18	2.4
21	16.7	8.5	0.3	8.0	9.8	9.9	0.1	0.0	1003.8	0 0 0 0		0 0 0 0		32	9.0	9.1	50	24	1500	27	13	10	0.4
22	18.8	4.5	2.7	0.4	10.0	10.1	7.1	0.0	1010.5	0 0 0 0		0 0 0 0		46	2.3	3.7	73	14	1156	68	6	12	2.9
23	17.6	5.8	0.5	1.0	10.8	10.2	6.5	0.0	1015.9	0 0 0 0		0 0 0 0		241	3.8	4.5	249	18	1436	262	8	15	0.7
24	16.1	5.6	2.6	-1.3	11.0	10.4	6.7	0.0	1018.5	0 1 0 0		1 1 0 0		235	6.7	7.6	241	26	1400	258	12	13	0.5
25	18.1	8.3	0.0	4.3	11.0	10.6	2.8	0.0	1028.1	0 0 0 0		0 0 0 0		224	6.7	6.9	214	17	1530	213	9	15	0.0
26	20.6	5.5	0.0	1.8	11.3	10.8	9.6	0.0	1024.6	0 0 0 0		0 0 0 0		202	5.5	5.8	230	23	0914	221	10	09	0.0
27	18.0	8.7	6.0	6.2	11.9	11.0	2.0	0.0	1014.2	0 0 0 0		1 1 0 0		200	4.5	5.3	203	24	1639	198	12	16	1.3
28	14.9	7.5	1.9	4.7	11.9	11.2	4.9	0.0	1005.4	0 0 0 0		1 0 0 0		221	6.0	6.4	265	22	1730	222	10	13	1.2
29	13.4	3.8	17.4	-1.0	11.6	11.3	1.3	0.0	997.3	0 1 0 0		0 0 0 0		144	4.4	5.1	151	22	1457	155	10	13	6.0
30	12.1	5.0	5.3	0.6	11.2	11.5	0.4	0.0	986.5	0 0 0 0		0 0 0 0		223	2.3	5.5	201	18	1457	237	8	22	4.4
Total			61.7				153.6	26.5															39.1
Mean	13.9	4.0		0.2	9.4	10.0	5.12	0.9	1010.7					253	1.3	6.1							
Anom	+0.8	-0.1	126%		+0.0	+1.1	119%		-4.6														

Daily mean 8.9 Pressure, abs highest = 1031.4 on 3

Anom +0.3 Pressure, abs lowest = 986.3 on 30

Number of days with:

Air frost = 7 Ground frost = 14 Nil sun = 2

Snow falling = 1 Snow lying = 1 Thunder = 7

Hail=>5mm = 3 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 April 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cm	Ch	NChshs	NChshs	NChshs	Date	Remarks
1	63	6	26	13	27	12.3	6.5	68	6.0	1017.1	3	010	03	6	5	2	2	5	0	1	82825	85080		1	COTRA Cu med
2	65	8	25	06	12	10.4	6.3	76	5.8	1025.3	1	010	60	6	2	7	5	6	7	/	82630	87640	88357	2	
3	60	7	35	04	08	12.1	8.7	80	6.9	1030.9	1	011	05	5	2	7	5	4	/	/	82710	87638		3	Absent 3rd to 5th inc. vv&cld est
4	62	4	27	05	10	11.3	8.9	85	6.9	1029.1	6	005	02	0	0	0	0	9	0	1	84075			4	
5	80	5	33	11	19	7.9	1.4	64	4.2	1016.5	7	010	03	1	1	5	8	5	0	0	82825	84650		5	
6	80	8	36	07	13	0.2	-1.4	89	3.4	1008.5	6	006	22	9	7	7	5	4	2	/	83710	87620	88458	6	Snow depth 6cm Thunder 0602z
7	78	7	27	06	12	4.2	0.1	75	3.9	1003.7	2	006	01	2	2	7	8	4	/	/	81818	83635	87650	7	Cu fra
8	65	1	24	04	08	5.8	0.7	70	4.0	1004.6	1	005	03	0	0	1	2	5	0	0	81825			8	Cu hum/med
9	68	1	28	03	07	7.1	1.0	65	4.0	1000.4	7	008	03	0	0	1	1	5	0	0	81822			9	Cu fra
10	62	1	22	04	07	7.9	2.9	70	4.7	999.5	8	003	03	0	0	1	2	5	3	0	81820			10	1Ac57 Cu hum/med
11	82	2	21	11	22	9.9	2.3	59	4.4	996.3	8	003	03	0	0	2	8	6	0	3	81830			11	2Sc45 1Ci70 Cb top SW
12	70	7	26	10	21	7.5	3.3	75	4.9	1003.9	2	019	80	8	1	7	8	5	/	/	85820	86640		12	Cu med vv60k ex p
13	82	6	24	08	16	8.8	4.1	72	5.1	1008.3	2	004	80	8	1	6	9	4	6	3	81918	84825	83650	13	/Ac60 /Ci70 Cu con CbS
14	62	1	32	06	13	8.2	4.1	75	5.0	1017.8	2	015	03	1	1	1	1	4	0	0	81818			14	Cu fra/hum
15	70	1	25	03	07	7.9	-0.3	56	3.7	1024.9	1	004	02	0	0	0	0	9	0	1	81080			15	
16	58	3	14	04	08	7.0	4.5	84	5.2	1022.0	8	005	05	4	1	3	2	4	0	0	81812	83818		16	Cu med
17	61	7	08	10	25	7.2	1.6	68	4.3	1010.0	7	015	03	1	1	7	8	5	/	1	81825	86835		17	1Sc56 /Ci75 Cu med
18	58	7	06	11	25	9.1	3.9	69	5.1	998.1	7	007	05	2	2	4	1	5	7	/	84820	87358		18	Cu fra
19	56	8	06	10	24	7.5	5.0	84	5.5	997.7	2	015	61	6	6	7	5	4	2	/	82715	87618	88540	19	
20	30	8	06	06	13	10.2	7.7	85	6.6	1002.8	2	009	05	4	2	8	6	3	/	/	87709	88712		20	
21	50	7	03	11	18	9.8	7.2	84	6.3	1003.8	1	007	60	6	2	4	7	4	7	/	84710	86458	87368	21	
22	50	6	03	05	10	11.1	7.7	79	6.5	1010.5	1	009	05	2	2	3	6	4	3	1	83710	85075		22	1Ac68 Parhelion
23	14	8	21	04	06	9.6	8.8	95	6.9	1015.9	2	014	58	6	5	7	7	2	2	/	85705	87707	88540	23	
24	70	7	20	12	22	10.8	8.5	85	6.8	1018.5	5	003	60	6	2	1	8	4	2	/	81715	87540		24	1Cu20 1SC40 Cu con W
25	70	7	23	07	14	13.0	6.6	65	5.9	1028.1	1	010	02	2	2	1	1	5	7	1	81828	85362	86364	25	/Ci75 Cu fra
26	80	7	21	09	18	18.0	7.9	52	6.6	1024.6	7	002	02	2	2	1	0	9	3	1	81360	87075		26	Absent 26th to 28th inc. vv&cld est
27	65	8	23	04	08	15.7	9.5	66	7.3	1014.2	6	014	15	1	1	2	9	7	8	7	82956	85359	88270	27	2Ac65
28	82	7	22	10	16	12.2	5.4	63	5.7	1005.4	8	010	03	1	1	6	8	5	0	1	85828			28	2Sc40 2Ci75
29	82	7	15	05	10	8.6	6.3	86	6.0	997.3	7	018	03	6	2	7	8	4	/	/	86815	87625		29	/Cs75
30	57	8	03	06	13	8.8	8.0	95	6.8	986.5	7	009	21	6	2	8	5	3	/	/	81708	84712	87625	30	8Sc40

Mean vis = 17.8 km
Mean cloud = 5.7 71%
Mean wind speed = 7.2 kn
Mean gust = 14 kn
Mean TT = 9.3 °C
Mean TdTd = 4.9 °C
Mean RH = 74.6 %
Mean r = 5.5 g/kg
Mean PPP = 1010.7 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.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for April 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cm	Ch	NChshs	NChshs	NChshs	Date	Remarks
1	75	5	26	16	31	14.9	2.1	42	4.4	1018.9	0	003	02	1	1	1	1	6	0	1	81848	85080		1	COTRA Halo 22° part
2	56	8	30	02	06	12.4	10.9	90	8.0	1025.2	8	003	51	6	5	8	5	3	/	/	82708	84712	87625	2	/Sc35
3	72	7	34	04	11	14.4	8.9	69	6.9	1030.7	7	004	02	2	2	7	8	5	/	/	82825	87635		3	Absent 3&4 vv&cld est
4	75	6	26	10	16	16.2	6.2	51	6.0	1024.9	7	023	02	2	2	1	1	6	0	1	81838	86075		4	
5	80	7	33	11	21	8.1	2.4	67	4.5	1013.8	6	011	15	2	2	7	8	5	/	/	84825	86650		5	Cu med jpN
6	82	3	35	10	18	5.0	-6.4	43	2.4	1004.7	7	023	15	1	1	3	2	6	0	1	81835	83845		6	2Ci75 Cu med/con jp N-E-S Tr snow lyng in shade
7	80	5	24	08	14	8.5	-3.9	41	2.9	1003.5	8	003	15	8	2	5	9	6	0	0	81940	83845		7	2Sc56 Cu con jp SE-W
8	84	6	23	06	13	9.7	-3.2	40	3.1	1003.1	7	009	15	1	1	6	8	6	6	0	82848	85656		8	1Ac58 Cu med jp NW&E-S
9	84	6	33	04	22	10.8	-4.5	34	2.9	998.5	6	009	03	1	1	6	4	7	0	0	82856	85657		9	Cu hum
10	86	7	22	07	15	11.1	-0.0	46	3.8	997.7	7	008	02	2	2	6	8	6	6	/	82845	85650		10	4Ac57 Cu med
11	83	5	25	13	27	10.6	0.3	49	3.9	997.3	3	019	02	8	1	5	8	6	0	0	85840			11	1Sc50 Cu med
12	80	6	22	07	26	9.6	5.4	75	5.6	1004.9	2	007	27	8	1	3	9	5	0	3	83925	85075		12	2Ci70 jp W,SW&E vv70k ex p
13	80	7	16	04	12	8.6	5.1	79	5.4	1008.6	2	002	29	9	8	3	9	4	2	3	81815	81925	86462	13	2Cu30 1Sc50 /Ci70 jp NE-SE vv60k ex p
14	82	5	30	06	17	11.1	0.6	48	4.0	1018.6	0	004	15	8	1	4	9	6	6	3	81935	83840		14	2Sc56 1Ac60 1Ci70 jp all quads
15	84	4	23	07	15	12.3	-3.1	34	2.8	1022.9	7	014	03	0	0	2	1	7	3	1	82856	83075		15	1Ac57
16	80	7	08	05	12	10.3	0.6	51	3.9	1018.0	7	021	02	2	2	7	8	6	/	/	82840	87656		16	Cu med
17	83	1	06	13	29	10.4	-2.5	40	3.2	1005.7	8	021	02	0	0	1	1	6	0	8	81848			17	1Cs78 Cu hum Cs S
18	61	8	06	12	27	8.8	3.3	69	4.8	996.6	8	004	60	6	2	8	5	5	/	/	81620	87625	88650	18	Pptn v slt
19	50	8	06	10	22	8.6	5.2	79	5.6	999.2	2	006	60	6	2	7	5	4	2	/	82618	87622	88550	19	
20	58	5	04	10	19	14.8	7.8	63	6.5	1001.7	8	014	05	2	2	3	1	5	0	1	83828	83078		20	COTRA
21	60	8	04	11	21	16.3	7.4	55	6.4	1003.9	4	000	05	2	2	1	1	6	3	7	81836	85360	88275	21	Cu fra
22	61	5	06	03	13	18.4	6.1	44	5.8	1010.4	0	001	02	1	1	3	2	6	0	1	83848	83078		22	COTRA Cu med
23	80	2	26	08	18	16.9	4.2	43	5.0	1017.4	1	006	02	1	1	2	8	6	0	0	82818			23	1Sc56 Cu med
24	84	2	25	11	26	15.8	2.3	40	4.4	1019.4	3	009	01	9	8	2	9	6	0	3	81935	82845		24	1Ci70
25	75	7	20	07	14	16.5	8.3	58	6.6	1027.1	8	009	02	6	2	2	8	6	7	1	82832	86358		25	2Sc56 3Ac62 /Ci75 Cu med
26	80	7	19	08	17	20.1	7.0	43	6.2	1022.0	7	015	02	2	2	1	0	9	3	2	81360	87070		26	Absent 26th to 28th inc VV&cld est
27	70	6	20	07	16	17.9	10.2	60	7.7	1010.5	8	028	01	2	2	1	1	6	8	1	81830	85362		27	2Ci75
28	80	6	25	10	21	12.4	3.4	54	4.8	1003.2	6	005	15	2	2	5	9	5	0	2	81925	83835	85072	28	2Sc56
29	65	8	13	12	22	10.7	5.0	68	5.5	992.5	7	024	60	6	2	7	8	6	2	/	81825	83830	87640	29	/As58
30	65	7	20	08	17	9.5	6.0	79	5.9	990.9	1	026	15	6	2	7	8	4	/	/	81815	83820	87645	30	Cu con jp NW&SE

Mean vis = 28.9 km
Mean cloud = 5.8 73%
Mean wind speed = 8.3 kn
Mean gust = 19 kn
Mean TT = 12.4 °C
Mean TdTd = 3.2 °C
Mean RH = 55.1 %
Mean r = 5.0 g/kg
Mean PPP = 1009.7 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.

Wokingham AWS Psychrometer, 1min readings

Daily means and extremes, 00-24 GMT and RH statistics

APRIL 2008

Date	Mean TT	Max TT	Time	Min TT	Time	Mean RH	Max RH	Time	Min RH	Time	Missing RH N >0	Number of minutes RH in given ranges 0-20	20-40	40-60	60-80	80-90	90-100
01	11.0	15.5	1400	7.2	153	67.7	93.8	725	39.8	1434		0	4	497	449	372	118
02	11.2	14.9	1620	8.1	3	78.1	94.3	1325	65.5	658		0	0	0	997	253	190
03	11.6	14.7	1634	5.3	2357	82.6	95.9	2345	65.7	1626		0	0	0	641	223	576
04	10.3	17.7	1410	3.8	216	79.5	97.3	552	44.1	1405		0	0	233	383	346	478
05	6.9	11.0	1420	2.8	2303	72.7	93.6	433	48.4	1421		0	0	217	754	243	226
06	2.1	6.3	1621	-0.8	642	74.6	95.7	615	32.4	1622		0	60	292	334	371	383
07	3.5	9.6	1452	-0.5	2343	70.9	93.0	16	35.9	1428		0	28	364	515	459	74
08	4.3	11.0	1316	-2.6	524	67.9	96.4	616	33.8	1302		0	191	415	300	105	429
09	5.1	12.8	1416	-2.1	444	66.5	95.8	625	29.1	1406		0	278	364	201	217	380
10	6.1	13.2	1351	-1.2	541	66.6	96.1	616	36.6	1331		0	64	576	335	84	381
11	7.7	11.6	1341	2.9	422	67.5	94.5	431	38.0	1722		0	17	578	440	179	226
12	7.7	12.2	1149	2.8	2356	71.6	93.4	2359	50.6	1229		0	0	151	1182	71	36
13	6.5	11.5	1014	-0.2	434	83.6	97.2	443	59.6	1124		0	0	2	578	213	647
14	7.0	12.4	1240	1.4	448	71.5	95.3	327	39.0	1746		0	6	498	390	166	380
15	5.9	12.5	1453	-1.7	531	69.8	96.9	548	32.0	1532		0	413	119	157	318	433
16	6.0	11.9	1559	0.6	534	74.7	98.1	624	40.7	1601		0	0	483	243	185	529
17	6.8	11.7	1255	2.3	537	62.7	91.4	541	35.7	1527		0	87	567	472	267	47
18	7.8	11.7	1120	4.4	148	72.7	88.8	200	53.8	1140		0	0	98	948	394	0
19	7.5	9.0	1155	6.4	525	84.2	92.6	1817	73.3	22		0	0	0	490	553	397
20	10.8	16.3	1450	7.4	141	82.4	94.6	555	57.9	1452		0	0	19	442	524	455
21	10.8	16.6	1450	6.7	2400	77.5	91.6	603	54.3	1501		0	0	162	496	664	118
22	11.8	18.6	1513	4.3	340	70.9	96.2	348	40.0	1502		0	0	533	363	94	450
23	11.6	17.6	1437	5.7	336	72.2	95.4	352	38.0	1513		0	23	502	175	238	502
24	10.9	16.3	1538	5.6	231	72.5	95.5	326	39.3	1459		0	2	422	427	279	310
25	12.2	16.6	1500	8.2	439	69.4	86.5	555	52.0	1223		0	0	303	739	398	0
26	14.3	20.6	1411	5.5	509	63.1	96.0	552	39.8	1411		0	1	722	434	132	151
27	12.5	18.0	1459	8.8	352	79.5	93.2	415	54.8	1532		0	0	74	524	707	135
28	9.9	14.8	1331	4.8	2309	74.9	95.3	2312	45.6	1451		0	0	382	389	322	347
29	8.0	13.3	1257	3.9	416	85.7	97.2	538	51.5	1353		0	0	177	185	126	952
30	7.5	10.1	1542	4.9	423	90.5	96.7	655	74.6	1527		0	0	0	83	569	788
Mean	8.5	13.7		3.5		74.1	94.6		46.7			0.00	0.65	4.86	7.81	5.04	5.63
Hi	14.3	20.6		8.8		90.5	98.1		74.6	Tot	0	0	1174	8750	14066	9072	10138
Lo	2.1	6.3		-2.6		62.7	86.5		29.1								

April 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	10.99	15.5	1358	7.1	156	67.67	93.9	723	38.7	1432	4.76	5.33	7.3	733	3.9	1533	1019.17	1024.2	2342	1015.8	630	0.6
2	11.16	15.0	1618	8.0	1	78.10	94.4	1324	65.0	654	7.43	6.39	8.7	1524	4.7	537	1025.46	1027.9	2356	1023.5	335	0.4
3	11.56	14.8	1633	5.2	2356	82.60	96.1	2344	65.4	1636	8.56	6.81	7.5	409	5.1	2356	1030.29	1031.4	2100	1027.8	1	0.5
4	10.30	17.9	1400	3.7	213	79.50	97.5	552	43.1	1404	6.53	5.97	7.8	1152	4.7	215	1026.56	1031.1	0	1020.7	2359	0.0
5	6.89	11.1	1419	2.7	2302	72.70	93.7	432	47.5	1420	2.14	4.45	6.1	433	3.6	1807	1015.72	1020.8	0	1012.8	2358	0.6
6	2.08	6.4	1620	-0.9	642	74.60	95.9	613	31.2	1621	-2.46	3.22	3.9	523	1.8	1621	1006.88	1012.9	1	1003.3	2359	4.5
7	3.45	9.7	1451	-0.6	2342	70.90	93.1	16	33.0	1427	-1.71	3.38	4.1	959	2.4	1427	1003.66	1004.8	2253	1002.5	358	0.0
8	4.27	11.2	1315	-2.7	522	67.90	96.5	615	32.6	1301	-1.95	3.33	4.4	842	2.6	1302	1003.70	1004.8	734	1002.5	1745	0.1
9	5.09	13.0	1415	-2.2	442	66.54	96.0	624	27.9	1405	-1.65	3.42	4.6	906	2.5	1405	1000.13	1002.9	2	998.2	1412	0.1
10	6.11	13.3	1350	-1.3	540	66.61	96.3	615	34.7	1212	-0.40	3.75	5.1	834	3.0	1239	998.69	1000.4	34	997.0	1735	0.0
11	7.73	11.7	1334	2.8	421	67.53	94.7	427	37.3	1721	1.66	4.37	5.9	1258	2.9	1721	997.64	1000.6	2032	994.4	1039	1.0
12	7.75	12.3	1346	2.7	2354	71.60	93.6	2358	49.3	1228	2.85	4.70	6.1	1110	4.0	1230	1004.13	1008.2	2340	999.3	1	3.5
13	6.46	11.6	1013	-0.3	433	83.60	97.3	443	58.7	1120	3.73	5.00	6.5	1201	3.6	433	1009.21	1013.7	2357	1007.6	407	7.7
14	7.02	12.5	1239	1.3	450	71.50	95.5	320	38.3	1742	1.76	4.30	5.6	1001	3.1	1742	1018.39	1023.8	2354	1013.6	6	0.2
15	5.85	12.6	1453	-1.9	530	69.84	97.1	547	31.3	1425	-0.35	3.71	5.0	2352	2.6	1135	1023.87	1025.1	924	1022.0	1713	2.6
16	6.01	12.0	1558	0.5	517	74.70	98.3	709	39.7	1600	1.27	4.15	6.1	830	3.3	1533	1019.42	1023.5	1	1014.4	2359	0.1
17	6.79	11.8	1254	2.2	536	62.70	91.5	540	34.5	1526	-0.41	3.72	4.7	700	2.7	1526	1008.09	1014.5	0	1003.0	2359	0.0
18	7.78	11.9	1118	4.3	146	72.70	88.9	159	52.7	1140	3.08	4.80	5.4	907	4.3	0	997.79	1003.1	0	995.7	2342	0.0
19	7.55	9.1	1152	6.3	523	84.30	92.7	1816	73.1	20	5.03	5.51	6.0	2247	4.6	44	998.51	1001.8	2340	995.3	312	2.6
20	10.81	16.4	1449	7.3	129	82.40	94.8	551	55.9	1513	7.77	6.62	7.7	1314	5.9	15	1002.48	1003.6	2012	1001.4	1518	0.3
21	10.77	16.7	1457	6.6	2359	77.50	91.8	622	52.7	1450	6.80	6.19	7.3	1047	5.4	1944	1004.54	1008.1	2329	1002.7	231	0.9
22	11.83	18.7	1512	4.2	339	70.90	96.3	347	39.0	1501	6.11	5.87	7.2	1026	4.9	339	1010.36	1013.2	2304	1007.8	34	0.0
23	11.56	17.7	1436	5.6	334	72.20	95.6	351	36.4	1513	5.97	5.80	8.2	1026	4.4	1513	1016.59	1020.3	2252	1012.9	6	2.7
24	10.90	16.4	1537	5.4	230	72.50	95.7	324	38.1	1458	5.68	5.67	7.6	1238	4.2	1458	1020.47	1025.4	2358	1018.2	1102	3.0
25	12.17	16.7	1459	8.1	438	69.38	86.6	554	50.2	1222	6.56	5.95	7.4	1458	5.4	1222	1027.11	1028.4	942	1025.3	0	0.0
26	14.29	20.7	1411	5.5	508	63.07	96.2	550	38.4	1410	6.73	6.05	7.4	817	4.9	1730	1023.19	1026.9	0	1019.1	2356	0.0
27	12.49	18.0	1458	8.7	351	79.50	93.3	414	54.1	1528	8.91	7.10	8.8	1246	6.0	2022	1013.09	1019.3	0	1008.7	2359	5.8
28	9.89	14.9	1330	4.7	2307	74.90	95.4	2311	42.7	1449	5.33	5.59	6.4	634	4.3	1442	1004.70	1008.8	0	1002.5	2359	0.8
29	8.02	13.4	1257	3.8	415	85.70	97.4	553	50.3	1317	5.53	5.73	6.8	1808	4.6	1352	994.83	1002.5	1	988.8	2345	15.6
30	7.52	10.2	1541	4.8	422	90.50	96.9	605	73.8	1525	6.04	5.95	7.1	908	5.2	206	990.79	1000.0	2359	986.3	929	6.6
Total																						60.2
Mean	8.50	13.77		3.38		74.14	94.77		45.52		3.71	5.10	6.42		4.02		1010.51	1014.40		1007.43		
Max	14.29	20.69		8.72		90.50	98.30		73.80		8.91	7.10	8.79		5.98		1030.29	1031.38		1027.79		
Min	2.08	6.36		-2.70		62.70	86.60		27.92		-2.46	3.22	3.95		1.83		990.79	999.99		986.31		

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