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 **JANUARY 2008**

Temperature (°C / °F)			Anomaly	Rank in the past **127** years			
Mean maximum	10.3	50.5	+2.8	3rd highest			
Mean minimum	4.3	39.7	+2.8	4th highest			
Daily mean	7.3	45.1	+2.8	4th highest			
Highest maximum	13.8	56.8	on 20th	Lowest maximum	4.2	39.6	on 3rd
Highest minimum	12.0	53.6	on 20th	Lowest minimum	-0.6	30.9	on 17th
Mean grass minimum	1.1	34.0		Lowest grass minimum	-6.2	20.8	on 6th
Mean earth @30 cm	6.7	44.1	+1.5	Earth @100 cm	8.7	47.7	
Frost duration (hrs)	3.3			Rain duration (hrs)	61.7		
Rainfall total (mm / in)	84.8	3.34	139 %	21st highest			
Highest daily fall	13.9	0.55	on 11th				

Number of: Dry days (<0.2mm)	13	Wet days (>0.9mm)	15	days ≥5mm	7				
Sunshine total (hrs)	73.7	Daily mean	2.38	125 %	Sunniest day	8.0	on 27th		
N° days with: Air frost	1	Ground frost	11	Snow falling	2	Snow lying	0		
Thunder	1	Hail ≥5mm	0	Small hail/ice	3	Fog @09	2	Nil sun	10

Air pressure MSL : Mean @09 GMT (mbar/in)	1013.1	-2.9	29.92	
Absolute highest	1037.7		30.64	on 25th
Absolute lowest	975.0		28.79	on 15th

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

Notes: **Wet and Windy, but Very Mild and Very Sunny**

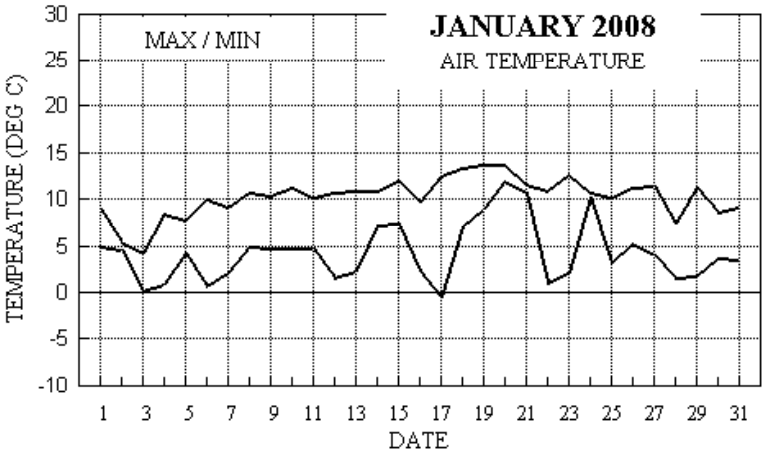
Temperature: The mean this January is only 0.3° below the record set last year, a record that had stood since 1921. The mean maximum is 0.1° below last year's, and is 0.2° below the record set in 1916. The mean minimum is 0.6° below last year's record value. The highest maximum is 1.4° above the median, and ranks 10th highest in 105 years. The lowest maximum is 3.4° above the median. Both the lowest and highest minimum are the highest on record, 5.3° and 3.8° above their respective medians. The lowest grass minimum is highest in the past 29 years. Earth temperatures are also above average, but are a little lower than in last January. The number of air frosts is least since before 1956, but the number of ground frosts is only least since 2002. The number of hours with air frost is lowest in the past 27 years. **Rainfall:** This is the wettest January since 1999, and although it is 28.7 mm above the median, it is nevertheless comfortably outside the very wet category. The highest daily fall is exactly on the long-term median. The number of dry days is 2 fewer than average, but despite this there were two dry spells, the first of 6 days ending on the 2nd and the second of 5 days ending on the 26th. The duration of measurable rain is only 10 % above average. Snow fell briefly on the 3rd and 11th, but was mixed with rain on both occasions. Small hail fell on the 8th, 14th and 31st and there was thunder on the 17th. The highest rainfall rate recorded this month was 95 mm/hr on the 8th. **Sunshine:** Despite the number of sunless days being close to average, the total this month is most since 2003, and is 25 % above average. Overall there were 18 days with <3 hours and 3 days with =>6 hours. **Wind:** The mean speed this month is 9.6 mph, 1.3 mph above average, but 0.5 mph lower than last January. The 31st was the windiest day, mean speed 15.3 mph, and the month's highest gust of 47 mph was also on that day. The least windy day was the 1st, mean 2.5 mph, and there were only 106 minutes (1.8 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days : N,0 NE,0 E,2 SE,0 S,3 SW,25 W,1 NW,0. **Humidity:** The overall mean relative humidity was 82.4% and the lowest value was 41 % on the 24th. The mean water vapour content per kg of air was 5.3 g at 0900 GMT and 5.4 g at 1500 GMT. **Pressure:** The absolute lowest this month is lowest for January since 1990. **Commentary:** Maximum temperatures were above normal every day except the 2nd and 3rd, anomaly –3.4° on the latter, with a peak anomaly of +7.0° on the 20th. Daily minima were also mainly above normal, up to 11.1° above on the 20th, but there were also a scattering of negative anomalies, though with the largest only -1.5° on the 17th. Rainfall was near or below normal up to the 9th, followed by a wet spell to the 17th. From the 18th to the 28th it was mainly dry, and near normal thereafter. Sunshine followed the normal accumulation up the 25th, but several sunny subsequent days gave a surplus by the end of the month. Winds were nearly exclusively SW'ly, except for E'ly on the 2nd and 3rd. Strong on the 8th, 10th, 21st and 31st, and fresh for much of the period 7th to the 25th, otherwise moderate, apart from light winds on the 1st and 28th.

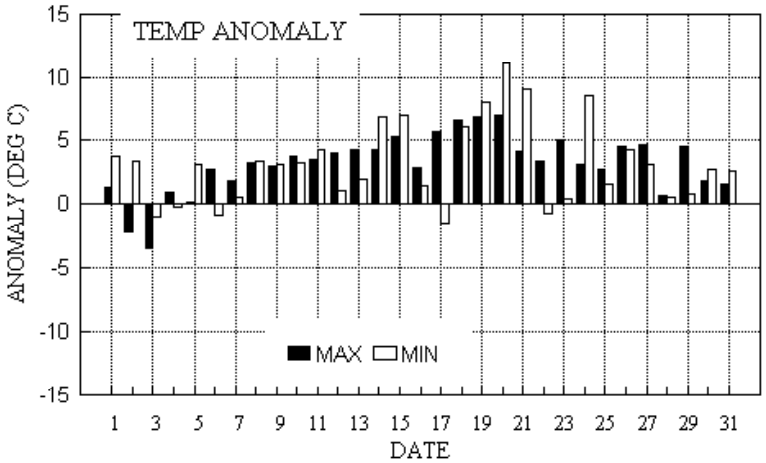
Mean anomalies (max, min, rain, sun)

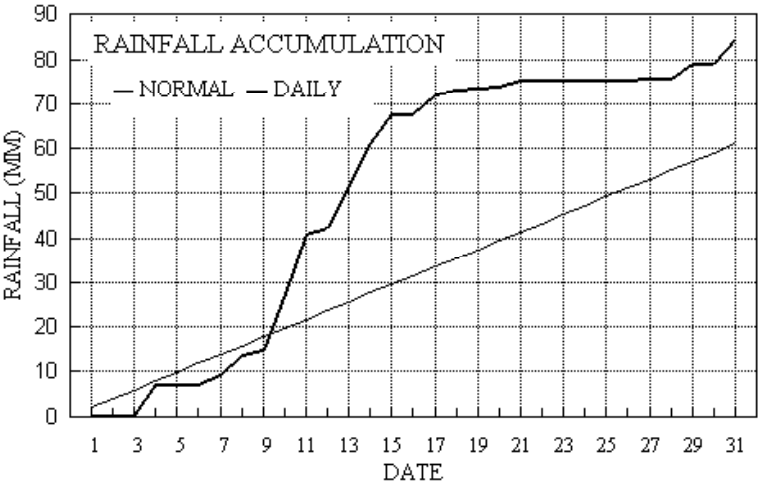
1st to the 10th				11th to the 20th				21st to the 31st			
+1.1	+1.8	138 %	104%	+5.0	+4.6	238 %	87 %	+3.4	+3.0	26 %	197 %

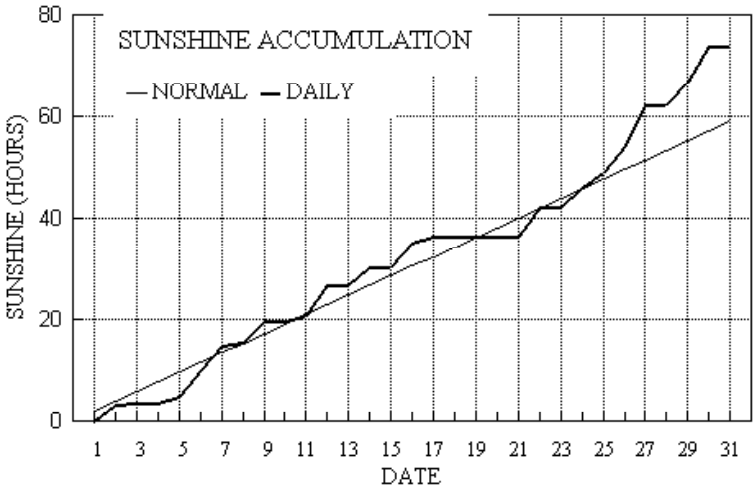
B J Burton. FRMetS. Hon. Met. Officer to Wokingham Town Council.

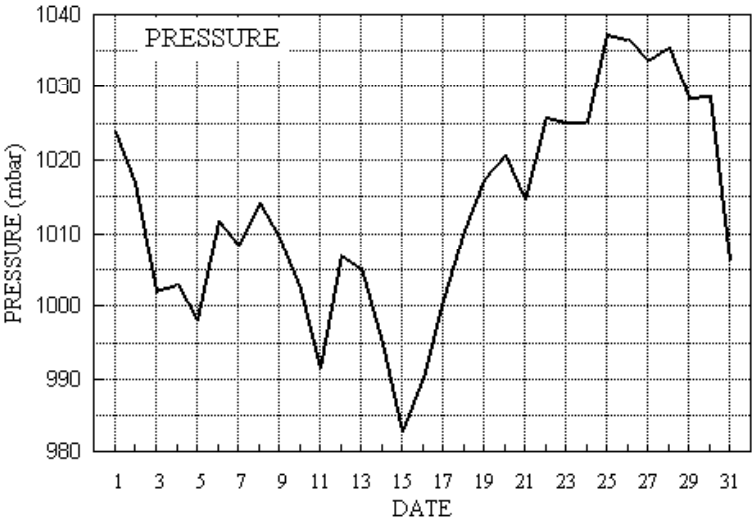
Wokingham Climatological Graphs for January 2008

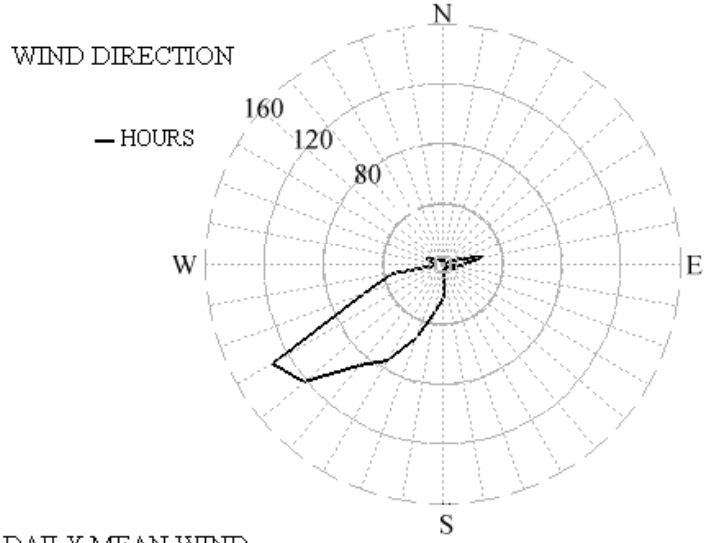


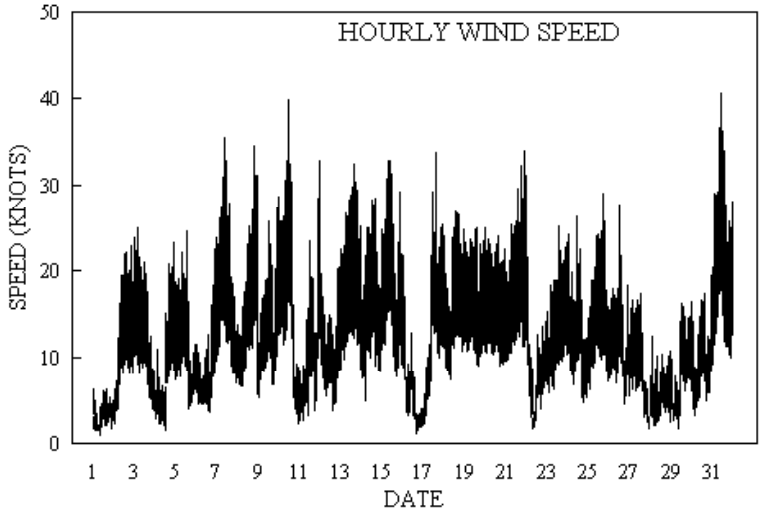


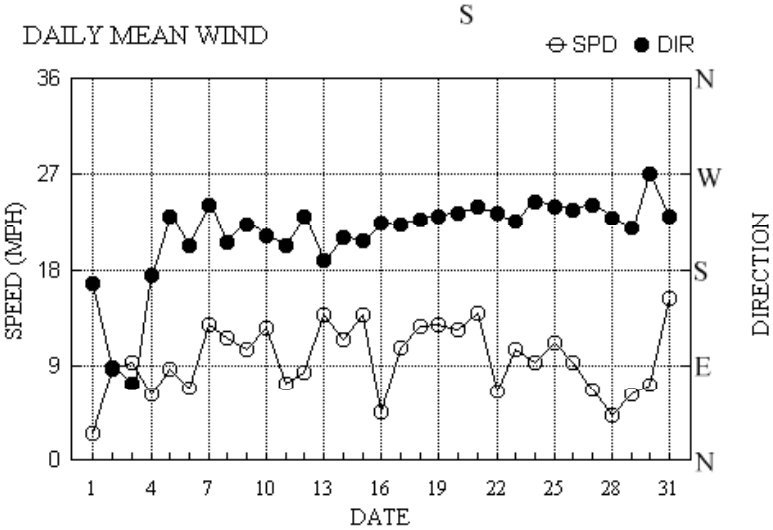












Daily meteorological data. Emmbrook, WOKINGHAM, Berkshire.

Month: JANUARY 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	8.9	5.0	0.1	0.0	6.3	8.6	0.0	0.0	1023.8	0 0 0 0		0 0 0 1		167	1.3	2.2	162	6	0013	175	3	00	0.2
2	5.4	4.6	0.0	0.1	6.5	8.6	3.2	0.0	1016.8	0 0 0 0		0 0 0 0		88	7.4	7.6	72	23	2126	77	11	14	0.0
3	4.2	0.2	0.1	-2.1	5.8	8.6	0.1	0.0	1002.1	0 1 1 0		0 0 0 0		73	8.1	8.1	69	25	0335	74	12	01	0.9
4	8.5	0.9	6.9	1.1	5.5	8.6	0.0	0.0	1003.0	0 0 0 0		0 0 0 0		175	3.5	5.4	202	24	2107	186	10	20	3.9
5	7.7	4.3	tr	2.7	5.9	8.5	1.5	0.0	998.0	0 0 0 0		0 0 0 0		231	7.4	7.5	235	25	1347	237	11	09	0.0
6	10.1	0.7	0.1	-6.2	5.5	8.5	5.1	0.0	1011.6	0 1 0 0		0 0 0 0		203	5.0	5.9	239	24	2316	237	12	23	0.3
7	9.2	2.1	2.2	3.6	5.5	8.4	4.9	0.0	1008.4	0 0 0 0		0 0 0 0		241	11.0	11.2	247	36	0852	247	15	07	1.2
8	10.7	5.0	4.5	0.6	5.4	8.4	0.5	0.0	1014.1	0 0 0 0		0 0 1 0		206	10.0	10.1	200	35	1953	200	17	20	2.4
9	10.4	4.7	1.0	1.5	5.9	8.3	4.4	0.0	1009.4	0 0 0 0		0 0 0 0		223	9.1	9.2	197	29	2339	210	13	22	1.1
10	11.2	4.8	12.3	3.4	5.9	8.3	0.0	0.0	1002.4	0 0 0 0		0 0 0 0		212	10.8	10.8	213	40	1152	209	18	11	6.1
11	10.2	4.7	13.9	0.0	6.3	8.3	0.7	0.0	991.5	0 0 1 0		0 0 0 0		203	2.2	6.3	320	33	2359	304	12	23	8.1
12	10.7	1.5	1.5	-3.0	6.3	8.4	6.4	0.0	1007.1	0 1 0 0		0 0 0 0		231	5.7	7.3	318	29	0015	308	13	00	2.2
13	10.9	2.3	9.4	3.9	6.1	8.4	0.0	0.0	1005.1	0 0 0 0		0 0 0 0		188	11.7	11.9	158	33	1624	190	14	12	4.5
14	11.0	7.2	9.1	5.9	6.7	8.4	3.3	0.0	995.0	0 0 0 0		0 0 1 0		211	9.7	9.9	254	29	1500	227	13	14	9.2
15	12.0	7.4	6.7	4.3	6.8	8.5	0.0	0.0	982.8	0 0 0 0		0 0 0 0		208	11.3	12.0	192	33	0817	194	16	09	4.2
16	9.7	2.3	tr	-3.0	7.1	8.6	5.1	2.4	990.2	0 1 0 0		0 0 0 0		224	3.7	3.9	232	22	0057	232	10	00	0.0
17	12.5	-0.6	4.3	-5.6	6.1	8.7	1.0	0.9	1000.8	1 1 0 0		1 0 0 0		222	8.4	9.2	267	34	1530	202	14	11	2.7
18	13.4	7.0	1.3	3.1	6.2	8.6	0.0	0.0	1010.4	0 0 0 0		0 0 0 0		227	10.8	11.0	235	27	1349	231	14	15	4.5
19	13.7	8.9	0.4	11.2	7.2	8.6	0.0	0.0	1017.2	0 0 0 0		0 0 0 0		231	11.1	11.2	235	25	2348	233	13	07	1.4
20	13.8	12.0	0.2	11.1	8.2	8.7	0.0	0.0	1020.7	0 0 0 0		0 0 0 0		233	10.8	10.8	241	24	1502	236	12	03	0.6
21	11.7	10.7	1.4	8.5	8.6	8.8	0.1	0.0	1014.6	0 0 0 0		0 0 0 0		239	11.6	12.1	297	34	2232	250	16	18	1.4
22	11.0	1.0	tr	-4.5	8.4	9.1	5.8	0.0	1025.9	0 1 0 0		0 0 0 0		234	2.7	5.6	319	31	0026	312	14	00	0.0
23	12.6	2.1	0.1	3.2	7.8	9.2	0.0	0.0	1025.1	0 0 0 0		0 0 0 0		226	9.1	9.1	226	25	1453	224	12	21	0.1
24	10.7	10.2	tr	8.7	8.2	9.3	3.9	0.0	1025.2	0 0 0 0		0 0 0 0		245	7.3	8.1	268	27	1123	214	12	00	0.0
25	10.3	3.2	0.0	-3.6	7.6	9.4	2.8	0.0	1037.3	0 1 0 0		0 0 0 0		239	9.5	9.6	251	29	1738	254	13	17	0.0
26	11.3	5.3	0.0	2.1	7.3	9.4	5.3	0.0	1036.5	0 0 0 0		0 0 0 0		237	8.0	8.1	240	28	1122	252	11	13	0.0
27	11.4	4.1	0.2	-2.3	7.0	9.3	8.0	0.0	1033.6	0 1 0 0		0 0 0 0		241	5.4	5.7	274	18	1236	264	9	12	0.6
28	7.4	1.5	0.0	-5.1	6.7	9.3	0.0	0.0	1035.4	0 1 0 0		0 0 0 1		229	3.4	3.6	266	13	0221	243	5	14	0.0
29	11.3	1.8	3.3	-3.5	6.8	9.2	4.6	0.0	1028.5	0 1 0 0		0 0 0 0		219	5.0	5.4	353	17	2325	222	8	12	3.1
30	8.6	3.7	0.1	0.6	6.9	9.1	6.9	0.0	1028.8	0 0 0 0		0 0 0 0		270	4.8	6.2	221	20	2302	220	10	23	0.4
31	9.2	3.6	5.7	-2.1	6.5	9.1	0.1	0.0	1006.1	0 1 0 0		0 0 1 0		231	12.9	13.3	219	41	1024	222	19	09	2.6
Total			84.8				73.7	3.3															61.7
Mean	10.3	4.3		1.1	6.7	8.7	2.38	0.1	1013.1					222	6.5	8.3							
Anom	+2.8	+2.8	139%		+1.5	+1.4	125%		-2.9														

Daily mean 7.3 Pressure, abs highest = 1037.7 on 25

Anom +2.8 Pressure, abs lowest = 975.0 on 15

Number of days with:

Air frost = 1 Ground frost = 11 Nil sun = 10

Snow falling = 2 Snow lying = 0 Thunder = 1

Hail=>5mm = 0 Hail<5mm or ice = 3 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 January 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cm	Ch	NChshs	NChshs	NChshs	Date	Remarks
1	05	8	19	02	04	5.4	5.2	99	5.5	1023.8	6	006	41	6	4	4	8	3	3	7		82708	83650	88275	1	1Cu35 3Ac65 COTRA Rain 0820-40 vv 2500SW
2	60	7	11	09	18	4.6	1.2	78	4.1	1016.8	3	001	02	2	2	7	8	4	/	/		81712	84815	87625	2	Cu hum
3	62	7	08	10	20	0.9	-4.2	69	2.8	1002.1	6	010	02	2	2	7	5	5	3	/		83625	87630		3	/Ac60
4	21	8	09	02	07	4.1	3.5	95	4.9	1003.0	5	003	10	2	2	8	6	2	/	/		88705			4	
5	82	5	23	11	22	6.0	2.1	76	4.4	998.0	3	026	15	8	1	1	9	5	6	3		81925	85070		5	1Cu35 1Sc45 1Ac65 jpW
6	75	2	21	05	07	2.1	0.4	88	3.9	1011.6	2	022	03	0	0	0	0	9	0	4		82075			6	COTRA Hoar mod Gnd sfc frzn
7	80	1	25	15	35	7.6	-0.6	56	3.6	1008.4	3	034	02	1	1	1	1	6	0	0		81835			7	Cu fra
8	62	7	20	09	16	9.0	7.3	89	6.3	1014.1	6	009	62	6	2	4	5	4	7	2		82715	83656	85358	8	5As60 /Ci70
9	81	2	23	09	19	4.7	0.7	75	4.0	1009.4	3	022	01	1	1	1	5	7	3	2		81656			9	1Ac62 1Ci68
10	78	8	21	15	30	10.3	6.3	76	6.0	1002.4	8	019	02	6	2	7	5	5	/	2		86622	87635		10	/Ci70
11	40	8	06	06	14	7.3	6.9	97	6.3	991.5	7	043	65	6	6	7	5	3	2	/		84707	87625	88535	11	
12	86	1	23	07	13	2.4	0.6	88	4.0	1007.1	1	028	02	0	0	1	5	6	3	1		81640			12	1Ac65 1Ci75 COTRA Hoar slt
13	80	8	19	13	25	10.3	7.4	82	6.4	1005.1	5	003	02	2	2	8	5	4	/	2		81715	86620	87645	13	/Ci70
14	60	7	21	12	25	8.4	6.4	87	6.0	995.0	3	001	80	8	2	7	8	4	/	/		81715	85630	87640	14	2Cu20 Cu med
15	58	8	19	15	33	9.7	8.3	91	7.0	982.8	7	053	63	6	6	7	5	4	2	/		83712	87615	88525	15	
16	80	1	23	03	06	4.0	3.0	93	4.8	990.2	3	024	02	1	1	1	5	6	3	2		81635			16	1Ac62 1Ci70 Glaze on grass and cars
17	56	8	19	08	14	7.3	6.4	94	6.0	1000.8	8	036	50	5	2	8	5	3	/	/		84708	86712	87618	17	8Sc25
18	50	8	20	09	15	8.8	7.7	93	6.5	1010.4	8	008	61	6	2	7	5	4	2	/		83712	86618	88540	18	
19	40	8	24	13	23	12.5	11.4	93	8.3	1017.2	2	018	51	5	5	8	5	3	/	/		83708	87712		19	/Sc50
20	61	8	23	12	21	12.7	10.8	88	7.9	1020.7	1	006	50	5	2	8	5	4	/	/		83712	87618	88625	20	
21	75	7	23	12	24	10.8	6.7	76	6.1	1014.6	6	020	03	2	2	7	5	5	/	2		87620			21	/Ci75
22	72	6	23	02	04	2.1	1.4	95	4.1	1025.9	2	028	03	1	1	1	0	9	3	1		81366	86078		22	1Ci72 COTRA Hoar slt Glaze on cars
23	60	7	23	10	19	10.8	7.7	81	6.4	1025.1	2	007	03	2	2	6	5	5	7	2		86628	83362	87075	23	COTRA
24	70	8	25	08	16	10.2	6.4	77	5.9	1025.2	3	028	60	6	2	7	8	5	7	/		81820	86650	88358	24	1Sc30 Cu fra
25	75	7	23	09	18	6.6	2.7	76	4.5	1037.3	3	004	02	2	2	0	0	9	0	1		82075	87080		25	COTRA
26	80	7	24	08	17	5.6	3.3	85	4.7	1036.5	2	017	03	2	2	4	5	5	0	1		81620	86080		26	2Ci72 COTRA
27	65	7	24	06	16	6.1	3.8	85	4.9	1033.6	2	011	02	2	2	1	0	9	3	1		81365	87080		27	COTRA
28	03	4	17	03	05	3.7	3.6	99	4.8	1035.4	0	001	42	4	4	4	6	0	0	0		84701			28	VV700W
29	50	3	21	01	06	3.6	3.0	96	4.6	1028.5	6	004	10	1	1	3	5	6	0	0		83630			29	
30	88	2	28	06	12	3.9	1.1	82	4.0	1028.8	2	025	01	1	1	0	0	9	0	8		82070			30	Cs edge SE
31	63	8	22	19	34	8.4	4.6	77	5.3	1006.1	6	070	60	6	2	7	5	5	2	/		85620	87630	88458	31	

Mean vis = 19.3 km
Mean cloud = 6.0 75%
Mean wind speed = 8.7 kt
Mean gust = 17 kt
Mean TT = 6.8 C
Mean TdTd = 4.4 C
Mean RH = 85.0 %
Mean r = 5.3 g/kg
Mean PPP = 1013.1 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 January 2008

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cm	Ch	NChshs	NChshs	NChshs	Date	Remarks
1	63	8	21	02	05	8.6	6.2	85	5.8	1021.3	6	013	02	6	2	7	8	5	/	8		81825	87656		1	2Sc45 /Cs75 Cu med
2	61	5	08	11	22	3.0	-2.4	68	3.2	1013.0	6	022	02	1	1	1	1	5	3	1		81822	85080		2	1Ac64 COTRA Cu fra
3	59	8	07	09	19	2.4	-1.5	75	3.5	1000.0	6	004	05	2	2	8	5	4	/	/		87615	88625		3	
4	50	8	18	07	14	7.8	6.8	94	6.3	998.7	8	037	60	6	2	8	5	3	/	/		87708	88612		4	
5	80	6	24	05	16	6.6	2.1	73	4.5	999.9	5	002	15	8	2	2	8	6	7	2		81830	85363		5	2Sc50 2Ci70 jp NW
6	80	6	14	04	07	7.1	2.6	73	4.6	1010.8	7	015	03	1	1	2	8	5	7	/		81825	85360		6	2Sc45 2Ac65 Cu med Ac vir
7	81	1	25	14	28	7.7	2.0	67	4.3	1011.8	3	012	25	8	6	1	8	5	6	0		81825			7	1Sc40 1Ac59 pR 1415
8	62	7	21	13	25	10.3	5.7	73	5.7	1009.6	7	023	25	8	2	2	8	5	3	1		82820	86080		8	1Sc35 1Ac60 COTRA Cu med
9	81	7	22	10	21	8.2	2.4	67	4.5	1009.9	7	007	25	8	1	7	8	5	/	1		83825	85650		9	2Sc40 /Ci75
10	60	7	21	16	31	10.8	8.7	87	7.1	998.2	6	015	58	6	5	7	5	4	7	/		81712	85615	87625	10	7Ac60
11	75	7	18	09	19	9.5	4.7	72	5.4	986.5	6	010	15	8	2	7	8	5	/	1		82825	87640		11	/Ci75 jpW&NW
12	84	3	21	06	13	7.3	3.2	75	4.8	1009.2	2	002	02	0	0	1	8	5	7	1		81820	83078		12	1Sc25 1Ac62
13	75	8	18	14	30	10.3	5.7	73	5.7	1001.2	6	026	02	2	2	3	1	5	7	7		83820	83360	88270	13	Cu hum
14	20	7	23	14	28	9.5	3.5	66	4.9	995.9	3	018	88	8	1	7	9	5	/	/		82925	82830	85640	14	pRho 1456-1503. Hail 2-4 mm Rainbow 1508
15	80	8	21	10	20	11.0	8.2	83	7.0	979.3	4	000	02	6	2	7	5	4	2	/		85615	87620	88460	15	
16	84	2	24	03	06	7.5	3.0	73	4.8	995.5	2	023	02	0	0	1	8	5	7	2		81820			16	1Sc35 2Ac57 1Ac62 1Ci70 COTRA
17	62	7	23	13	26	11.8	7.5	75	6.5	995.7	6	014	15	2	2	2	2	5	7	2		81920	82825	83365	17	3Ci70 jpW-NW Tstorm 1516-31
18	35	7	23	14	24	12.9	11.3	90	8.3	1008.9	5	001	50	5	2	7	5	4	/	/		86712	87618		18	
19	58	7	24	11	23	13.5	11.9	90	8.6	1019.9	2	009	50	5	2	7	5	4	/	1		83712	87615		19	/Ci78 COTRA
20	58	8	23	13	23	12.8	10.9	88	8.0	1020.4	6	008	50	5	2	8	5	4	/	/		81710	86615	88620	20	
21	84	5	25	13	30	11.4	7.7	78	6.5	1008.0	6	028	21	6	2	5	8	4	0	2		81815	83820		21	2Sc35 1Ci70 Cu hum/med CF 1400
22	84	7	21	06	10	7.5	1.4	65	4.1	1027.5	1	004	03	2	2	7	0	8	7	1		81357	87358		22	/Ci72
23	80	7	24	13	25	12.3	8.2	76	6.7	1023.9	8	009	02	2	2	7	5	4	/	/		83618	87625		23	/Ci75
24	86	1	28	09	22	9.1	-1.9	46	3.2	1030.3	2	024	01	1	1	1	1	6	0	2		81840			24	1Ci72 Cu fra
25	80	7	24	10	22	10.1	3.8	65	4.9	1036.0	6	010	02	2	2	7	5	6	/	1		87630			25	/Ci78
26	82	8	25	09	22	10.1	4.3	67	5.0	1034.2	7	009	03	2	2	1	1	5	0	7		81825	83075	88278	26	COTRA Cu fra
27	78	7	26	05	12	10.9	5.4	69	5.5	1033.7	7	008	02	2	2	1	1	5	0	1		81822	87080		27	COTRA Cu fra
28	67	8	24	05	10	6.2	5.6	96	5.5	1032.8	6	015	02	2	2	8	5	4	/	/		82618	88622		28	
29	73	8	23	08	16	10.1	5.5	73	5.5	1025.3	6	021	02	2	2	8	5	5	/	/		88620			29	
30	84	1	29	09	17	7.6	-1.6	52	3.3	1028.9	7	006	03	0	0	1	1	6	0	5		81835			30	1Cs78 Cu hum Cs edge NW
31	81	7	25	14	34	8.0	0.5	59	4.0	1000.7	7	003	02	6	2	3	8	5	3	1		81830	83656	85368	31	6Ci75 COTRA Cu med

Mean vis = 26.3 km
Mean cloud = 6.2 78%
Mean wind speed = 9.6 kn
Mean gust = 20 kn
Mean TT = 9.1 C
Mean TdTd = 4.6 C
Mean RH = 74.0 %
Mean r = 5.4 g/kg
Mean PPP = 1011.8 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.

Wokingham AWS Psychrometer, 1min readings
Daily means and extremes, 00-24 GMT and RH statistics
January 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	6.5	8.8	1405	4.6	201	93.4	98.7	936	80.4	1633		0	0	0	0	396	1044
02	3.4	6.1	543	-0.0	2342	81.7	96.4	141	64.7	1321		0	0	0	666	380	394
03	1.6	2.9	2209	0.1	640	78.7	95.8	1733	64.2	1044		0	0	0	927	32	481
04	5.6	8.3	1840	2.8	1	92.6	95.9	827	82.6	2303		0	0	0	0	139	1301
05	5.9	7.6	1342	3.2	2354	79.1	88.5	47	62.6	1350		0	0	0	632	808	0
06	5.1	9.9	2310	0.0	553	82.7	94.3	2127	62.8	1303		0	0	0	489	627	324
07	6.8	8.9	2	4.8	2307	68.4	89.6	1256	54.5	758		0	0	221	1158	61	0
08	8.3	10.5	1340	5.1	2358	82.1	91.8	2330	72.8	1459		0	0	0	593	786	61
09	6.3	9.5	2332	4.4	832	76.9	92.6	12	59.2	1325		0	0	7	950	424	59
10	9.4	11.0	1222	6.7	2342	84.7	95.2	2046	73.0	1133		0	0	0	423	566	451
11	6.4	10.0	1236	2.2	2211	91.4	98.6	652	71.9	1507		0	0	0	232	187	1021
12	5.2	8.8	2400	1.2	801	83.3	95.2	2353	72.9	1442		0	0	0	508	774	158
13	9.6	10.7	1258	7.2	2142	80.4	95.3	53	66.3	1900		0	0	0	668	444	328
14	8.3	10.7	1306	6.6	441	80.4	92.6	224	62.7	1456		0	0	0	621	643	176
15	9.2	11.9	1311	5.5	2322	87.0	91.4	257	79.8	1342		0	0	0	3	1167	270
16	3.9	8.4	1338	-0.7	2321	88.2	99.1	2321	66.9	1430		0	0	0	216	533	691
17	6.5	12.3	1428	-0.5	47	86.9	99.1	47	69.4	2232		0	0	0	485	206	749
18	10.4	13.2	1321	6.5	443	87.5	94.5	1058	73.5	6		0	0	0	283	432	725
19	12.6	13.5	1405	12.1	749	90.9	94.8	1040	83.4	2150		0	0	0	0	463	977
20	12.3	13.5	1145	11.3	2354	86.8	93.9	1607	81.4	1148		0	0	0	0	1232	208
21	10.5	11.4	1530	7.0	2400	78.6	91.4	56	62.2	2232		0	0	0	827	559	54
22	5.7	8.6	2400	0.6	759	78.5	96.6	842	58.8	1332		0	0	9	790	448	193
23	10.9	12.4	1441	8.6	1	82.9	94.6	136	73.2	1603		0	0	0	493	806	141
24	8.4	11.0	7	2.9	2247	69.0	90.2	615	41.4	1415		0	0	445	569	424	2
25	7.1	10.0	1551	2.9	138	72.3	82.8	500	60.7	1549		0	0	0	1293	147	0
26	7.0	10.8	1302	4.8	2359	80.2	88.6	450	62.7	1356		0	0	0	524	916	0
27	6.4	11.1	1409	1.0	2304	84.7	97.9	2332	66.5	1324		0	0	0	377	566	497
28	5.0	7.2	2003	2.2	640	91.7	98.9	640	73.9	2005		0	0	0	395	52	993
29	6.9	10.8	1341	1.4	500	84.2	96.8	833	71.7	1342		0	0	0	576	375	489
30	5.1	7.5	1433	3.2	2113	75.2	91.6	456	50.0	1428		0	0	229	651	371	189
31	6.7	8.9	1205	3.4	2248	75.5	90.4	1118	57.9	1444		0	0	29	1058	325	28
Mean	7.2	9.9		3.9		82.4	94.0		67.2			0.00	0.00	0.51	8.82	8.22	6.45
Hi	12.6	13.5		12.1		93.4	99.1		83.4	Tot	0	0	0	940	16407	15289	12004
Lo	1.6	2.9		-0.7		68.4	82.8		41.4								

January 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	6.53	8.9	1408	4.5	200	93.40	98.8	932	80.2	1632	5.52	5.57	6.5	1127	4.9	2213	1022.60	1026.9	0	1019.1	2356	0.0
2	3.39	6.2	526	-0.1	2301	81.70	96.5	142	64.1	1320	0.50	4.00	5.4	503	2.9	2325	1014.38	1019.2	1	1007.9	2359	0.1
3	1.58	3.0	2205	-0.0	1	78.70	96.0	1745	63.4	1034	-1.83	3.40	4.4	2339	2.7	423	1002.49	1008.0	0	999.8	1338	0.2
4	5.64	8.5	1839	2.7	3	92.60	96.0	829	82.4	2302	4.54	5.35	6.5	1628	4.3	3	999.29	1003.9	504	989.8	2129	5.8
5	5.91	7.7	1341	3.1	2352	79.10	88.7	58	62.0	1353	2.52	4.62	5.7	5	4.0	1353	998.61	1004.4	2359	993.0	6	0.1
6	5.06	10.0	2309	-0.1	552	82.70	94.4	2126	62.1	1302	2.30	4.56	6.7	2236	3.4	549	1008.11	1012.6	1048	1001.8	2221	0.3
7	6.78	9.0	0	4.7	2306	68.38	89.9	1255	53.8	758	1.29	4.20	5.7	1255	3.5	827	1010.41	1017.2	2325	1002.8	59	1.8
8	8.29	10.6	1340	5.0	2357	82.10	91.9	2329	72.6	1452	5.38	5.60	6.8	1111	4.1	5	1011.00	1017.2	2	1002.1	2215	4.4
9	6.25	9.6	2313	4.3	829	76.90	92.7	11	58.6	1324	2.46	4.56	6.1	2358	3.9	948	1008.86	1011.1	1754	1004.8	0	0.4
10	9.42	11.1	1215	6.5	2341	84.70	95.4	2045	72.7	1132	6.94	6.27	7.2	1538	5.7	2341	1001.80	1008.3	1	997.8	1446	4.9
11	6.44	10.1	1234	2.1	2209	91.40	98.7	641	71.6	1502	5.08	5.59	7.0	1233	4.1	2213	991.73	1000.2	18	986.2	1442	17.6
12	5.24	8.8	2358	1.1	800	83.30	95.3	2351	72.5	1441	2.62	4.66	6.7	2359	3.6	434	1006.28	1009.3	1548	995.8	8	1.7
13	9.58	10.8	1254	7.1	2139	80.40	95.4	51	66.1	1925	6.29	6.01	7.2	56	4.8	1925	1002.31	1006.8	0	995.9	2357	4.4
14	8.33	10.8	1304	6.6	439	80.40	92.8	222	61.8	1343	5.07	5.56	6.4	2352	4.3	1815	996.05	998.2	1937	994.3	738	6.5
15	9.19	12.0	1310	5.4	2321	87.00	91.5	255	79.6	1341	7.14	6.50	7.8	1152	4.8	2357	983.29	996.2	7	975.0	1930	12.0
16	3.86	8.5	1336	-0.8	2320	88.20	99.2	2324	66.7	1429	1.99	4.47	5.1	1325	3.6	2320	993.74	1004.8	2359	982.9	0	0.0
17	6.55	12.4	1431	-0.6	45	86.90	99.2	39	69.3	2231	4.40	5.32	7.1	1234	3.6	46	1000.94	1005.8	320	995.3	1507	2.4
18	10.39	13.4	1320	6.4	442	87.50	94.7	1058	73.4	10	8.39	6.98	8.4	2105	4.9	340	1010.13	1013.2	2353	1005.7	0	2.4
19	12.62	13.6	1404	12.0	745	90.90	94.9	1039	83.2	2149	11.17	8.19	8.7	1303	7.5	2202	1018.16	1021.1	2009	1013.0	2	0.7
20	12.29	13.7	1136	11.2	2358	86.80	94.1	1605	81.2	1135	10.16	7.64	8.1	1549	7.0	2358	1020.46	1021.7	1032	1019.4	2338	0.2
21	10.50	11.5	1530	6.9	2359	78.60	91.6	101	61.5	2231	6.91	6.22	7.3	1359	4.1	2249	1012.01	1019.7	7	1005.6	2034	1.5
22	5.68	8.7	2359	0.5	758	78.50	96.7	841	58.1	1331	2.14	4.40	6.3	2359	3.6	758	1024.58	1027.8	1321	1011.5	2	0.0
23	10.90	12.5	1438	8.5	0	82.90	94.7	135	72.9	1602	8.09	6.62	7.3	1256	6.2	1821	1024.40	1026.3	0	1022.7	2035	0.0
24	8.35	11.1	6	2.8	2246	69.04	90.3	614	40.6	1414	2.75	4.76	7.1	605	2.8	1551	1028.73	1037.4	2228	1022.1	424	0.1
25	7.15	10.1	1523	2.8	136	72.30	83.0	459	60.3	1548	2.43	4.43	5.0	1211	3.5	31	1036.63	1037.7	1052	1035.5	1715	0.0
26	7.00	10.9	1301	4.7	2359	80.20	88.8	2359	62.3	1355	3.75	4.85	5.3	1300	4.5	806	1035.21	1036.6	924	1033.6	2312	0.0
27	6.38	11.2	1408	0.9	2303	84.70	98.0	2332	66.0	1323	3.89	4.92	5.6	1155	3.9	2303	1034.16	1036.1	2330	1032.6	310	0.1
28	5.01	7.3	2002	2.1	640	91.80	99.0	1132	73.5	2003	3.70	4.85	5.8	1319	4.3	640	1033.91	1036.1	4	1031.0	2352	0.2
29	6.86	10.8	1238	1.3	500	84.10	96.9	832	71.2	1342	4.27	5.11	6.3	2323	3.9	500	1026.81	1031.1	11	1022.9	2256	0.2
30	5.10	7.6	1432	3.1	2112	75.20	91.7	455	49.2	1427	0.90	4.02	5.1	0	3.1	1359	1027.47	1029.9	1115	1023.9	7	2.8
31	6.67	9.0	1204	3.4	2247	75.50	90.5	1117	56.9	1443	2.58	4.63	6.5	1204	3.8	1	1006.00	1024.3	0	997.2	2358	5.5
Total																						76.3
Mean	7.19	10.0		3.8		82.45	94.1		66.8		4.30	5.29	6.5		4.2		1012.60	1017.7		1007.1		
Max	12.62	13.7		12.0		93.40	99.2		83.2		11.17	8.19	8.7		7.5		1036.63	1037.7		1035.5		
Min	1.58	3.0		-0.8		68.38	83.0		40.6		-1.83	3.40	4.4		2.7		983.29	996.2		975.0		

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
A calibration correction of +0.15 C has not been applied to the air temperature readings.