

WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

Lat/Long 51°25'N 00°51'W NGR (SU)800699 Altitude 44m ASL.

Monthly Means and Totals

JULY 2005

Temperature (°C / °F)			Anomaly	Rank in past 124 years				
Mean maximum	22.6	72.7	+0.1	39 th highest				
Mean minimum	12.9	55.2	+0.6	10 th highest				
Daily mean	17.7	63.9	+0.3	31 st highest				
Highest maximum	29.9	85.8	13 th & 14 th	Lowest maximum	16.7	62.1	on 5 th	
Highest minimum	16.2	61.2	on 2 nd	Lowest minimum	7.8	46.0	on 5 th	
Mean grass minimum	10.0	50.0		Lowest grass minimum	3.5	38.3	on 5 th	
Mean earth @30 cm	18.1	64.6	-0.3	Earth @100 cm	16.5	61.7	+0.3	
Frost duration (hrs)	0.0			Rain duration (hrs)	34.9			
Rainfall total (mm / in)	52.6	2.07	127 %	51 st highest				
Highest daily fall	17.9	0.70	on 30 th					
Number of: Dry days (<0.2mm)	18	Wet days (>0.9mm)	9	days ≥5mm	3			
Sunshine total (hrs)	178.4	Daily mean	5.75	101 %	Sunniest day	15.2	on 17 th	
N ^o days with: Air frost	0	Ground frost	0	Snow falling	0	Snow lying	0	
Thunder	1	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0	Nil sun 2
Air pressure MSL : Mean @09 GMT (mbar/in)		1015.9	-1.5	30.00				
Absolute highest		1032.2		30.48	11 th & 12 th			
Absolute lowest		999.1		29.50	on 25 th			

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

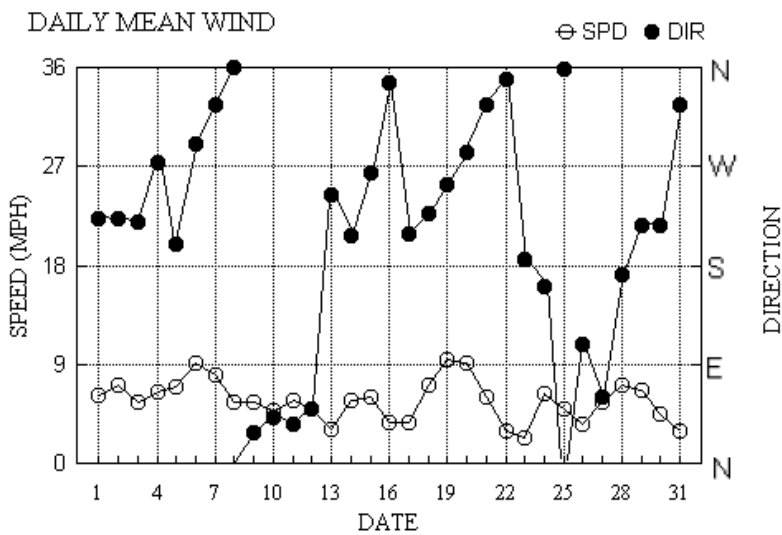
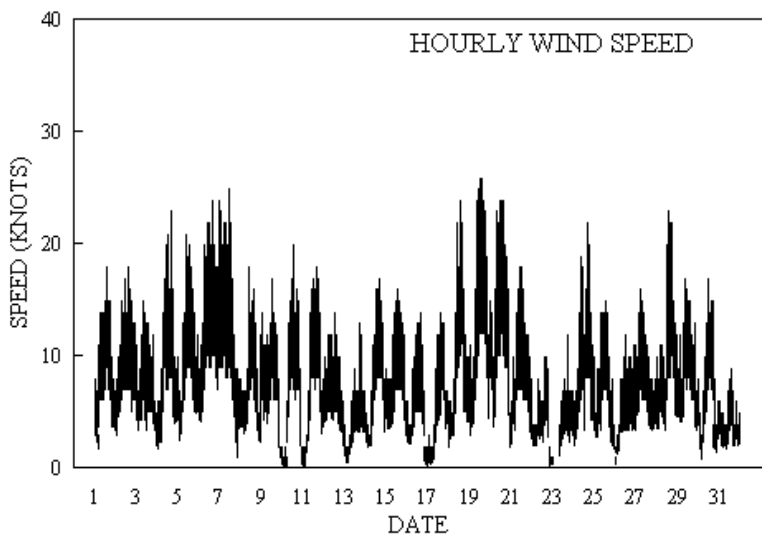
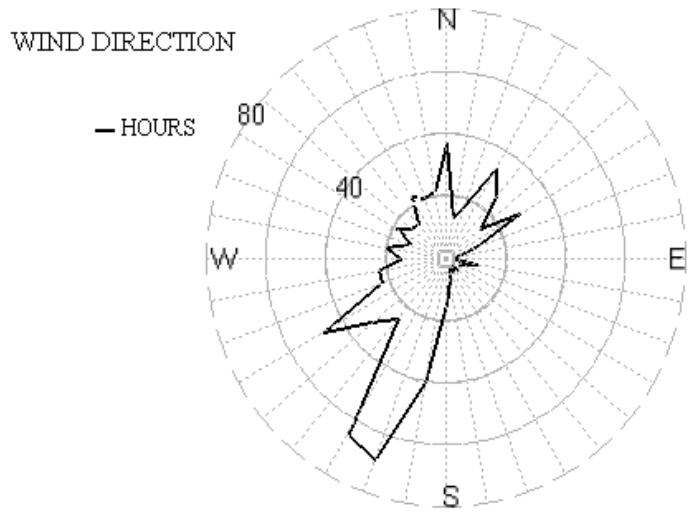
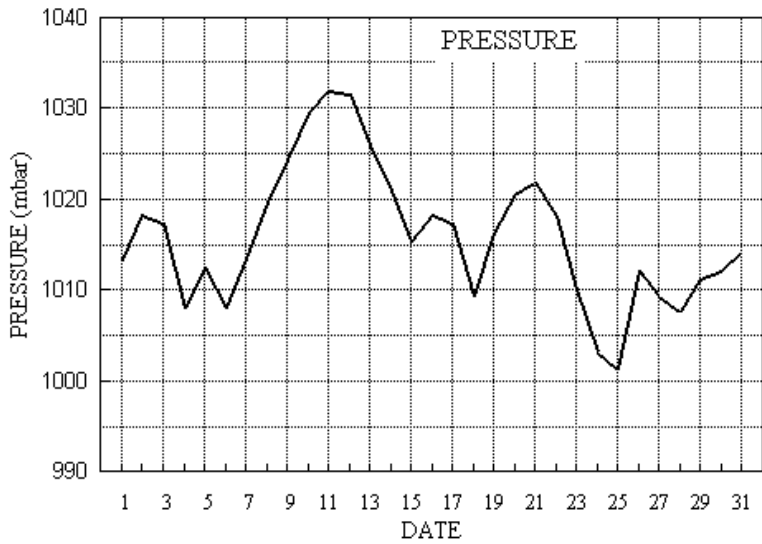
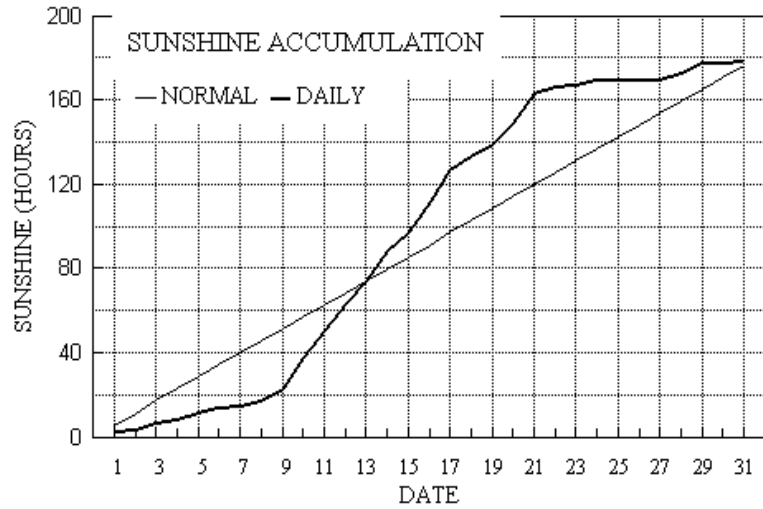
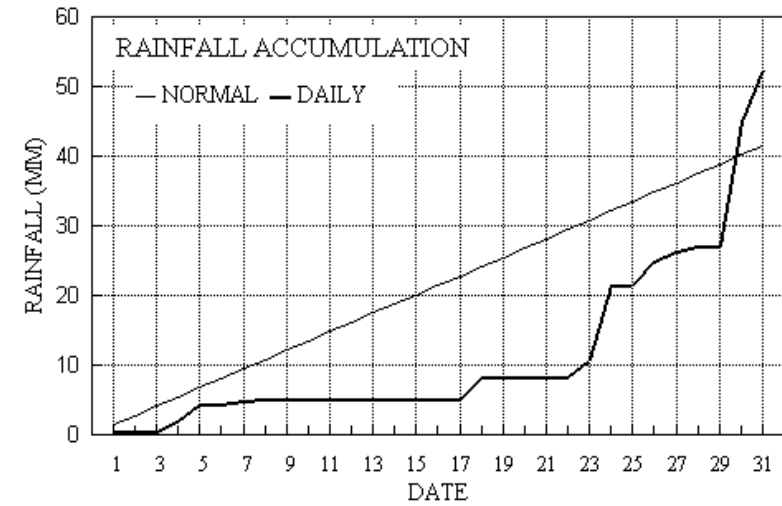
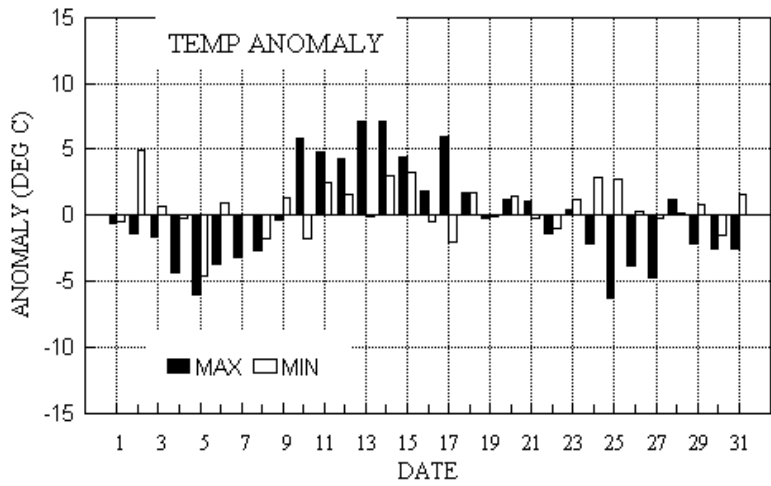
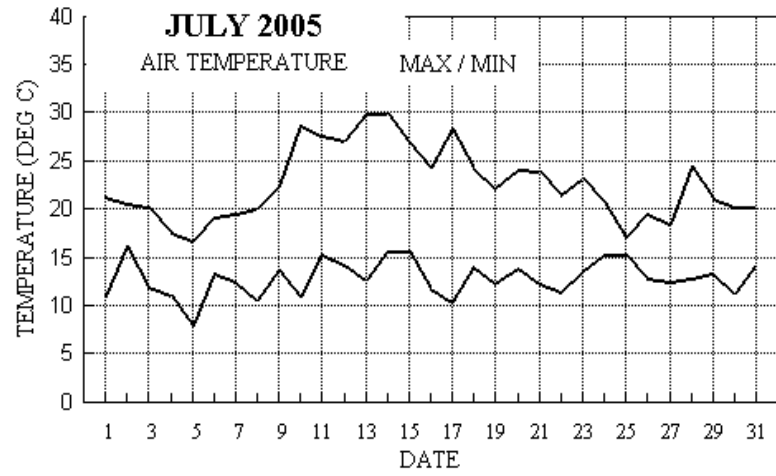
Notes: **Warm with Above Normal Rainfall and Near Normal Sunshine.**

General. Cool, fairly dry and dull for the first 9 days, then warm or hot, dry and very sunny until the 18th, then dry with normal temperature and sunshine until the 23rd, ending the month cool, wet and dull. **Temperature.** Although the mean maximum is in the normal category, the mean minimum ranks 10th highest and lifts the overall mean into the warm category, only 0.3° above the current climatological average but 1.0° above the long-term median. The highest maximum is 1.5° above the median, while the lowest minimum is 0.8° above its median. Both the lowest max and highest min are equal to their median values. The lowest daily mean, 12.3° on the 5th, is lowest since 1993, as is the lowest daily temperature range, 1.7° on the 25th. **Rainfall.** Although the first three weeks of the month saw little rainfall, with an accumulated deficit of 22 mm by the 22nd, some heavy downpours thereafter, notably on the 30th, lifted the accumulation into a surplus of 10 mm by the month's end. The number of dry days was 2 fewer than average, but there was a dry spell of 9 days ending on the 17th. Thunder occurred on just one day, the 4th. **Sunshine.** Dull until the 9th and again after the 21st, otherwise largely sunny. The period 10th to 17th was outstanding, producing 103.8 hours, and average of almost 13 hours per day. Overall there were 13 days with <3 hours, 9 with =>9 hours, 7 with =>12 hours, and 1 with =>15 hours. **Wind.** The mean speed this July was 5.6 mph, 0.6 mph below average. The 19th was the windiest day, mean 9.4 mph, and the month's highest gust of 30 mph was also on that day. The least windy day was the 23rd, 2.3 mph, and there were 30 hours with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,4 NE,5 E,1 SE,0 S,4 SW,9 W,5 NW,3. **Humidity.** The overall mean relative humidity was 74.9 %, and the lowest value recorded was 28 % on the 14th. The mean water vapour content per kg of air was 9.5 g at 0900 and 9.3 g at 1500 GMT. **Pressure.** The month's highest pressure, 1032.2 mbar, is highest for July since 1996. **Commentary. From the 1st to the 10th:** Mean anomalies (max, min, rain, sun), -1.8°, -0.1°, 38 %, 67 %. Daily anomalies for max were negative except for the 10th, down to -6.1° on the 5th, the month's coldest day, while for min, anomalies varied between +4.9° on the 2nd, the month's mildest night, to -4.6° on the 5th, the month's coldest. There were 5 dry days but amounts were quite small on the others. Sunshine was poor, with 9 days having <33 % of maximum, and sunny on the 10th only. Mostly moderate winds were SW'ly until the 5th, veering NE'ly by the 10th. **From the 11th to the 20th:** Mean anomalies were +3.8°, +1.1°, 23 %, 195 %. Anomalies for daily max were positive except on the 19th, and reached +7.1° on the 13th and 14th, jointly the month's hottest days. For daily min anomalies ranged from +2.5° on the 11th to -2.0° on the 17th. 9 dry days, just 3.1 mm on the 18th. Very sunny, with 5 days having >66 % of maximum, and none having <33 %. Light or moderate NE'ly winds became SW'ly on the 13th, veering N'ly on 16th, backing SW'ly on 17th, increasing fresh on 18th, veering W'ly by the 20th. **From the 21st to the 31st:** Mean anomalies were -2.1°, +0.6°, 302 %, 47 %. Anomalies for daily max ranged from +1.2° on the 28th to -6.3 on the 25th, and for min, +2.9° on the 24th to -1.5° on the 30th. Plenty of rain in this period, just 4 dry days, and 17.9 mm on the 30th, the month's wettest day, including 5 mm in 6 minutes to 1813 GMT. Sunshine was very poor, the 21st being the only sunny day, and sunless on the 25th and 27th, and 10 days with <33 % of maximum. Light or moderate winds were N'ly to the 22nd, backing to S'ly on 23rd, and to N'ly on 25th, then gradually veering through S on 28th to NW'ly on 31st.

B J Burton. FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham Climatological Data



Daily meteorological data.

Emmbrook, WOKINGHAM, Berkshire.

Month: JULY 2005

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	21.3	10.8	0.3	6.9	17.8	16.0	3.2	0.0	1013.3	0 0 0 0	0 0 0 0	0 0 0 0	223 5.2 5.4	230 18 1322	230 10 13	1.0	
2	20.5	16.2	tr	15.8	17.9	16.0	0.8	0.0	1018.3	0 0 0 0	0 0 0 0	0 0 0 0	222 6.0 6.2	220 18 1529	220 9 15	0.0	
3	20.3	12.0	0.0	8.1	17.6	16.0	3.0	0.0	1017.3	0 0 0 0	0 0 0 0	0 0 0 0	219 4.4 4.8	250 15 0801	240 7 09	0.0	
4	17.6	11.1	1.5	6.7	17.5	16.0	1.6	0.0	1008.1	0 0 0 0	1 0 0 0	0 0 0 0	273 5.2 5.7	300 23 1507	260 10 16	1.4	
5	16.7	7.8	2.4	3.5	17.0	16.0	2.9	0.0	1012.4	0 0 0 0	0 0 0 0	0 0 0 0	200 5.8 6.1	200 21 1042	190 9 12	1.9	
6	19.1	13.3	tr	11.6	16.7	16.0	2.7	0.0	1008.0	0 0 0 0	0 0 0 0	0 0 0 0	290 7.2 7.9	300 24 1549	300 11 16	0.0	
7	19.6	12.4	0.5	10.5	16.6	15.9	1.0	0.0	1013.5	0 0 0 0	0 0 0 0	0 0 0 0	327 6.3 6.9	340 25 1130	300 10 00	0.4	
8	20.1	10.6	0.4	5.5	16.5	15.9	2.6	0.0	1019.6	0 0 0 0	0 0 0 0	0 0 0 0	360 4.5 4.8	20 18 1055	30 8 14	0.3	
9	22.4	13.7	0.0	11.0	16.8	15.8	5.2	0.0	1024.3	0 0 0 0	0 0 0 0	0 0 0 0	28 4.8 4.9	10 17 1307	40 9 13	0.0	
10	28.6	10.9	0.0	7.8	16.9	15.8	14.9	0.0	1029.4	0 0 0 0	0 0 0 0	0 0 0 0	41 3.9 4.1	40 20 1345	50 8 11	0.0	
11	27.6	15.2	0.0	11.4	17.9	15.8	12.3	0.0	1032.0	0 0 0 0	0 0 0 0	0 0 0 0	35 4.9 5.0	30 18 1615	40 9 16	0.0	
12	27.0	14.2	0.0	12.8	18.5	15.9	13.4	0.0	1031.6	0 0 0 0	0 0 0 0	0 0 0 0	49 3.8 4.3	50 14 1304	40 6 05	0.0	
13	29.9	12.6	0.0	9.3	18.9	16.0	10.3	0.0	1025.9	0 0 0 0	0 0 0 0	0 0 0 0	244 1.1 2.7	230 13 1852	230 6 18	0.0	
14	29.9	15.7	0.0	12.2	19.4	16.1	14.8	0.0	1020.9	0 0 0 0	0 0 0 0	0 0 0 0	208 4.9 4.9	230 17 1614	220 8 16	0.0	
15	26.9	15.6	0.0	12.0	19.7	16.3	8.2	0.0	1015.3	0 0 0 0	0 0 0 0	0 0 0 0	265 4.9 5.3	260 16 1213	260 8 16	0.0	
16	24.3	11.8	0.0	7.0	19.5	16.5	14.7	0.0	1018.2	0 0 0 0	0 0 0 0	0 0 0 0	346 3.0 3.2	310 14 1611	350 6 11	0.0	
17	28.4	10.3	0.0	6.8	19.4	16.6	15.2	0.0	1017.4	0 0 0 0	0 0 0 0	0 0 0 0	209 3.1 3.3	190 14 1554	210 7 16	0.0	
18	24.2	14.0	3.1	9.9	19.8	16.8	6.5	0.0	1009.3	0 0 0 0	0 0 0 0	0 0 0 0	228 6.0 6.1	240 24 1442	240 12 14	0.6	
19	22.2	12.2	0.0	7.6	19.1	16.9	5.7	0.0	1016.2	0 0 0 0	0 0 0 0	0 0 0 0	254 7.9 8.2	270 26 1207	260 13 13	0.0	
20	24.1	13.8	0.0	10.9	18.7	17.0	9.6	0.0	1020.6	0 0 0 0	0 0 0 0	0 0 0 0	283 7.0 7.9	290 24 1456	270 12 13	0.0	
21	24.0	12.2	0.0	7.5	18.5	17.0	14.4	0.0	1021.9	0 0 0 0	0 0 0 0	0 0 0 0	327 4.4 5.3	340 18 1113	300 8 08	0.0	
22	21.5	11.4	tr	8.4	18.6	17.0	4.0	0.0	1018.1	0 0 0 0	0 0 0 0	0 0 0 0	350 2.3 2.5	10 10 1533	360 4 15	0.0	
23	23.3	13.6	2.4	10.9	18.5	17.0	0.7	0.0	1010.1	0 0 0 0	0 0 0 0	0 0 0 0	186 1.4 2.0	210 12 1821	210 5 18	3.6	
24	20.7	15.3	10.9	12.8	18.6	17.0	1.8	0.0	1003.1	0 0 0 0	0 0 0 0	0 0 0 0	161 3.6 5.5	210 22 1543	210 11 16	6.6	
25	17.0	15.3	tr	14.6	18.5	17.0	0.0	0.0	1001.3	0 0 0 0	0 0 0 0	0 0 0 0	359 2.2 4.2	360 15 1230	360 8 12	0.0	
26	19.5	12.9	3.4	12.2	18.0	17.0	0.1	0.0	1012.2	0 0 0 0	0 0 0 0	0 0 0 0	108 2.7 3.0	110 12 1123	90 5 22	8.1	
27	18.5	12.4	1.5	12.3	18.0	17.0	0.0	0.0	1009.4	0 0 0 0	0 0 0 0	0 0 0 0	60 4.8 4.8	60 16 0553	60 7 05	2.9	
28	24.5	12.8	0.6	14.7	17.6	17.0	3.4	0.0	1007.6	0 0 0 0	0 0 0 0	0 0 0 0	172 4.0 6.1	220 23 1331	200 10 13	0.3	
29	21.1	13.4	tr	10.5	18.0	16.9	4.6	0.0	1011.2	0 0 0 0	0 0 0 0	0 0 0 0	216 5.6 5.7	210 17 0837	210 8 08	0.1	
30	20.2	11.2	17.9	7.7	17.9	16.9	0.7	0.0	1012.2	0 0 0 0	0 0 0 0	0 0 0 0	216 3.5 3.9	200 17 1241	200 8 12	1.7	
31	20.3	14.3	7.7	11.9	17.9	16.9	0.1	0.0	1014.1	0 0 0 0	0 0 0 0	0 0 0 0	327 1.3 2.6	330 9 1411	360 4 12	6.0	
Total			52.6				178.4	0.0									34.9
Mean	22.6	12.9		10.0	18.1	16.5	5.75	0.0	1015.9					263 1.5 4.9			
Anom	+0.1	+0.6	127%		-0.3	+0.3	101%										
Daily mean		17.7															
Anom		+0.3															

Number of days with:

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

Abbreviations.

Max/min = highest and lowest air temperature at 1.2m in 24 hour period ending at 09 GMT
 Rain = total rainfall and melted snowfall in 24 hour period ending at 09 GMT, millimetres. (Tr = trace, <.05mm).
 Grass min = Lowest overnight temperature at grass tip level.
 Sun = hours of bright sunshine, measured electronically. Frost = Number of hours with air temp below 0 deg C.
 pp09 = Air pressure corrected to mean sea level at 0900 GMT, millibars.
 Af = Air frost. Gf = Ground frost. Sf = Snow falling. Sl = Snow lying at 09 GMT.
 Th = Thunder. Ha = Hail =>5mm. Ic = Hail <5mm or ice. Fg = Fog at 09 GMT.
 Vec mean = 24 hour mean wind vector, ddd = direction in degrees from true north, ff = speed in knots.
 Sp = 24 hour mean wind speed in knots.
 Max gust = Highest gust in 24 hours, gg = speed in knots, HHhh = Time, hours and minutes, GMT.
 High hr = Highest hourly mean wind, HH = hour commencing. Rain Hrs = Duration of rain, 24 hours to 09 GMT. Excludes snow/hail.
 30cm and 100 cm are earth temperatures at those depths, read at 09 GMT.
 Anom = Departure from 1971-2000 climatological average.
 All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for JULY 2005

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	Date	Remarks				
1	81	7	24	07	12	18.5	13.0	71	9.4	1013.3	1	009	03	1	1	5	8	5	0	1	84825	87078			1	1Sc56	COTRA	Cu	med		
2	86	7	24	07	14	19.5	14.9	75	10.6	1018.3	2	007	03	2	2	7	8	5	/	/	84820	85640			2	2Sc	30				
3	56	8	23	05	15	16.4	14.5	88	10.3	1017.3	1	007	50	6	5	8	5	3	/	/	82708	84612	86618		3	8Sc	30				
4	89	7	27	08	17	15.6	8.6	63	7.0	1008.1	6	004	01	2	2	2	8	6	7	3	81830	84362			4	1Sc45	1Cu50	3As64	1Ci72	Cb	topW
5	84	7	20	06	14	15.5	10.6	73	8.0	1012.4	8	003	03	1	1	1	2	5	7	/	81822	86362	87365		5	2Ac	58	Cu	med		
6	84	8	31	08	19	16.0	11.6	75	8.6	1008.0	3	015	03	2	2	7	8	4	7	/	81818	85822	87640		6	/Ac	63	Cu	med/fra		
7	75	8	32	09	18	15.1	11.4	79	8.4	1013.5	1	015	60	6	2	8	5	5	/	/	86620	88625			7						
8	68	6	33	05	09	16.2	12.4	78	8.9	1019.6	0	001	01	1	1	1	1	5	8	0	81820	86358			8	Cu	fra	Ac	cas		
9	58	8	03	05	11	15.0	13.2	89	9.4	1024.3	2	010	05	6	2	8	5	3	/	/	87709	88615			9						
10	80	2	04	07	13	22.4	14.9	62	10.4	1029.4	1	010	02	0	0	0	0	9	0	1	82080				10	COTRA					
11	82	2	04	06	14	24.5	15.5	57	10.8	1032.0	0	006	01	1	1	1	5	7	3	0	81650				11	1Ac	63				
12	82	1	04	05	11	18.5	12.0	66	8.6	1031.6	8	003	01	1	1	1	1	5	3	0	81825				12	1Ac	61	Cu	fra		
13	61	3	28	03	06	22.8	15.7	64	11.0	1025.9	8	002	02	0	0	0	0	9	0	1	83080				13	COTRA					
14	61	1	21	05	10	24.1	18.5	71	13.2	1020.9	8	002	02	0	0	0	0	9	0	1	81080				14	Sky	turbid				
15	60	7	26	05	10	20.4	16.3	77	11.6	1015.3	2	009	05	1	1	7	5	4	/	/	84618	87625			15	Absent	vv&cld	est			
16	81	5	36	04	10	18.1	10.5	61	7.9	1018.2	1	006	02	1	1	2	5	6	0	1	82640	84080			16	COTRA					
17	78	1	19	03	05	21.7	13.6	60	9.7	1017.4	8	002	02	0	0	1	0	9	3	0	81365				17						
18	81	7	24	07	14	21.0	13.0	60	9.4	1009.3	5	002	03	1	1	2	1	6	0	4	82835	86078			18	2Ci	73	COTRA	Cu	hum	
19	84	5	27	08	15	18.0	8.8	55	7.0	1016.2	2	015	03	1	1	5	8	6	0	1	82835	83656			19	2Sc	45	1Ci	80	COTRA	
20	86	6	30	11	23	19.0	8.7	51	7.0	1020.6	1	009	02	1	1	2	8	6	3	0	81835	85362			20	1Sc	45	Cu	hum		
21	86	2	30	07	16	18.5	11.0	62	8.1	1021.9	8	005	01	0	0	2	4	6	0	1	82830				21	1Sc	35	1Ci	80	Cu	hum
22	59	7	01	03	05	17.1	13.6	80	9.7	1018.1	4	000	05	1	1	7	5	4	/	/	86615	87618			22						
23	61	8	02	02	04	18.5	13.6	73	9.8	1010.1	6	004	21	6	2	6	8	5	7	8	84820	85640	87358		23	/Cs	75				
24	57	8	10	06	16	16.1	15.4	96	11.1	1003.1	7	017	63	6	2	7	7	3	2	/	83707	87709	88530		24						
25	62	8	35	07	14	16.4	14.9	91	10.7	1001.3	0	362	03	6	2	8	6	3	/	/	87706	88708			25	Wind	veer	240-360	0815		
26	84	7	10	04	08	17.0	11.1	68	8.3	1012.2	0	001	03	2	2	7	8	6	/	/	81830	87656			26	2Sc	48	Cu	hum		
27	30	8	07	05	13	13.0	12.8	99	9.3	1009.4	1	003	51	6	5	8	7	2	/	/	87705	88707			27						
28	40	7	12	04	10	18.5	18.2	98	12.7	1007.6	2	001	21	6	4	6	6	2	7	/	82703	85705	87362		28	2Sc	50				
29	88	7	22	08	17	18.1	11.6	66	8.5	1011.2	1	010	03	1	1	7	8	6	/	1	83830	86635			29	2Ci	75	COTRA	Cu	hum	
30	84	7	22	04	09	16.5	12.9	79	9.3	1012.2	0	002	03	2	2	7	8	4	/	2	82818	87656			30	2Sc	45	/Ci	75	Cu	med
31	63	8	32	02	04	15.5	13.4	87	9.6	1014.1	3	011	02	2	2	8	8	4	/	/	82812	87620	88635		31	Cu	hum				

Mean vis = 31.2 km
 Mean cloud = 5.9 74%
 Mean wind speed = 5.7 kt
 Mean gust = 12 kt
 Mean TT = 18.2 C
 Mean TdTd = 13.1 C
 Mean RH = 73.4 %
 Mean r = 9.5 g/kg
 Mean PPP = 1015.9 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 JULY 2005

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks				
1	70	8	22	07	18	18.7	15.3	81	10.9	1014.6	1	008	60	6	2	5	8	5	7	81820	84640	88357	1	Cu med
2	82	8	22	08	18	19.9	15.6	76	11.0	1018.3	7	001	02	2	2	8	8	5	/	81822	83825	88630	2	Cu fra/hum
3	86	7	20	06	12	19.0	14.7	76	10.5	1015.4	7	010	01	2	2	4	8	5	7	81825	84640	87357	3	/Ci75 Cu hum
4	75	5	27	09	16	16.9	8.3	57	6.9	1007.8	7	002	15	8	2	2	9	6	6	81930	83072		4	1Cu35 1Sc50 1Ac62 jp SE&NW vv80k ex p
5	82	8	18	07	18	14.8	13.7	93	9.9	1008.6	8	024	60	6	5	8	5	4	/	81715	87618	88625	5	
6	84	7	31	09	20	17.4	8.3	55	6.8	1010.4	2	010	80	8	2	4	8	6	6	82840	83650	86357	6	/Ci75
7	59	5	35	06	17	18.3	15.8	85	11.2	1016.1	2	013	25	8	2	2	8	5	6	81820	85357		7	1Cu25 2Sc56 1Ci75 jpNW vv 25k ex p
8	75	7	04	08	15	18.9	12.3	66	8.9	1019.8	1	003	02	2	2	7	8	5	/	82825	87645		8	
9	77	5	06	06	14	21.2	12.0	56	8.7	1025.1	1	005	01	2	2	4	5	6	0	84633			9	2Ci78 COTRA
10	84	3	05	06	13	28.3	10.9	34	8.0	1028.6	7	002	03	0	0	1	2	7	0	81856	83080		10	COTRA Cu med
11	86	2	03	09	16	27.3	14.0	44	9.8	1031.3	8	002	02	0	0	2	8	7	3	82845			11	1Sc50 1Ac62 Cu med
12	89	1	07	05	12	26.4	10.7	37	7.9	1028.7	7	014	02	0	0	1	1	7	0	81850			12	1Ci75 1Ci80 Cu hum Cb top NW (220km)
13	81	6	01	04	07	27.8	16.3	50	11.5	1023.4	7	013	03	1	1	3	2	7	6	83850	83360		13	1Ac65 Cu con
14	82	3	23	08	16	29.4	12.8	36	9.2	1017.0	7	020	02	0	0	1	1	7	0	81856	83080		14	Absent vv&cld est
15	82	4	28	06	15	25.0	14.3	51	10.2	1014.5	7	002	02	1	1	4	1	6	0	84848			15	Absent vv&cld est
16	82	3	35	06	13	23.9	8.2	37	6.7	1017.7	7	005	02	0	0	0	0	9	0	83080			16	COTRA
17	81	1	23	05	11	28.0	10.7	34	8.0	1014.1	6	019	01	0	0	1	1	8	0	81857			17	
18	80	7	24	13	24	21.7	14.8	65	10.6	1007.7	5	001	15	2	2	7	8	6	/	82835	83640	87650	18	Cu hum jp NW
19	84	5	26	12	24	21.2	8.6	44	6.9	1017.5	3	006	02	2	2	5	4	7	0	85650			19	
20	86	3	29	13	24	23.5	11.1	45	8.2	1020.7	3	001	02	1	1	2	2	7	0	82850			20	2Ci72 Cu med
21	80	2	35	06	16	23.7	10.9	44	8.1	1019.5	7	011	01	0	0	2	4	6	0	81845			21	2Sc48 Cu hum
22	60	7	35	03	09	20.2	12.8	63	9.2	1016.0	7	010	05	2	2	7	8	6	/	82828	87640		22	Cu hum
23	62	8	19	03	07	22.1	13.3	58	9.6	1008.7	6	008	02	2	2	6	8	6	7	82830	83650	88359	23	2Sc56 Cu med
24	70	7	20	08	16	19.8	17.4	86	12.6	1000.7	5	007	03	6	5	6	8	4	3	83818	85640		24	2Ac62 Cu med
25	78	8	36	06	14	15.8	12.7	82	9.3	1006.9	2	026	20	5	2	8	8	4	/	81812	87615	88620	25	Cu hum
26	84	7	13	03	09	18.7	10.8	60	8.1	1011.5	7	003	02	2	2	7	8	6	/	81838	87656		26	2Sc50 /Cs75 Cu hum
27	30	8	06	04	10	14.5	13.8	96	9.9	1009.1	7	002	61	6	5	8	7	2	/	83703	87705	88706	27	
28	70	7	19	08	16	23.1	16.6	67	11.9	1007.2	1	002	80	8	2	6	8	6	3	82830	85650		28	2Sc40 2Ac60 Cu con vv 50k ex p
29	84	7	21	08	15	19.9	11.4	58	8.4	1011.3	2	001	02	2	2	7	8	6	/	83838	85645		29	
30	65	6	21	08	14	20.1	13.9	68	10.0	1011.1	7	005	15	2	2	3	9	5	6	81925	83360		30	2Cu30 1Sc56 Cu con jp all quads vv50k ex p
31	78	7	33	03	09	19.4	12.9	66	9.3	1014.8	7	001	02	2	2	5	8	5	7	83828	85358		31	2Sc45 /Ac62 /Ci75 Cu med

Mean vis = 34.7 km
 Mean cloud = 5.5 69%
 Mean wind speed = 6.9 kt
 Mean gust = 15 kt
 Mean TT = 21.4 C
 Mean TdTd = 12.7 C
 Mean RH = 60.3 %
 Mean r = 9.3 g/kg
 Mean PPP = 1015.3 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 Psychrometer
 Daily means and extremes, 00-24 GMT
 JULY 2005

Date	Mean			Max			Min			Missing RH	Number of minutes RH in given ranges									
	TT	TT	Time	TT	Time	RH	RH	Time	RH		Time	N >0	0-20	20-40	40-60	60-80	80-90	90-95	95-98	98-100
01	16.5	21.3	13:36	11.5	04:00	84.4	96.6	23:21	57.3	13:36	0	0	8	392	428	355	257	0		
02	17.8	20.6	12:25	13.7	23:55	85.0	97.3	02:04	71.1	11:43	0	0	0	534	480	80	346	0		
03	16.5	20.3	17:44	12.9	03:09	81.1	93.2	04:35	67.7	17:47	0	0	0	731	429	280	0	0		
04	13.6	17.6	11:02	10.9	23:59	78.5	93.6	21:27	55.3	13:29	0	0	90	596	435	319	0	0		
05	13.3	16.7	09:32	8.4	04:08	90.6	96.9	21:09	67.9	09:40	0	0	0	189	221	373	657	0		
06	15.6	19.1	12:43	12.6	23:40	72.9	95.9	00:11	48.6	15:05	0	0	478	488	99	276	99	0		
07	15.3	19.6	14:07	12.5	03:56	79.9	91.3	21:11	58.3	14:07	0	0	9	663	730	38	0	0		
08	16.2	20.1	17:44	11.2	04:04	74.9	92.6	05:52	49.1	10:55	0	0	255	537	444	204	0	0		
09	17.0	21.9	17:12	13.8	03:27	78.9	95.2	07:43	53.1	15:31	0	0	214	403	641	181	1	0		
10	21.6	28.6	15:28	12.6	04:14	64.3	95.8	03:52	32.3	14:46	0	325	354	318	52	324	67	0		
11	22.7	27.6	14:21	16.8	00:23	62.7	85.4	04:41	39.9	16:33	0	6	714	372	348	0	0	0		
12	20.9	27.0	15:33	14.5	04:29	63.1	89.9	03:41	31.0	15:35	0	288	333	404	415	0	0	0		
13	22.4	29.9	13:37	13.9	04:04	68.3	93.7	04:27	39.1	12:53	0	8	543	463	179	247	0	0		
14	23.3	29.9	13:28	16.6	04:21	60.8	89.6	04:41	28.1	16:59	0	320	358	357	405	0	0	0		
15	21.3	26.9	15:25	15.7	04:10	66.9	89.8	05:06	42.7	17:11	0	0	616	379	445	0	0	0		
16	19.2	24.3	15:08	12.6	04:43	59.0	85.8	04:50	35.9	16:32	0	281	498	357	304	0	0	0		
17	20.8	28.4	14:49	12.1	05:03	59.2	92.1	04:58	31.8	14:50	0	292	517	300	220	111	0	0		
18	18.0	24.1	12:22	13.5	23:23	74.3	96.6	17:57	42.9	12:35	0	0	349	353	643	50	45	0		
19	17.1	22.2	14:43	12.2	04:59	65.7	92.9	02:20	40.5	14:43	0	0	682	352	141	265	0	0		
20	18.8	24.1	15:07	14.1	04:35	61.7	92.3	04:50	40.8	18:16	0	0	822	294	250	74	0	0		
21	18.3	24.0	15:08	12.5	04:53	63.7	86.3	05:09	41.8	15:08	0	0	676	464	300	0	0	0		
22	16.9	21.5	15:33	12.1	04:23	76.5	91.9	04:36	55.3	15:33	0	0	109	685	480	166	0	0		
23	18.6	23.4	15:46	14.8	00:00	73.4	89.4	02:44	52.2	15:45	0	0	316	551	573	0	0	0		
24	17.1	20.7	16:16	15.3	06:51	88.4	99.3	13:16	66.5	17:14	0	0	0	269	487	152	482	50		
25	15.4	16.8	00:08	13.9	23:58	89.4	99.0	06:02	76.1	20:54	0	0	0	44	735	155	394	112		
26	16.2	19.5	11:16	13.1	04:11	73.3	92.1	23:35	55.0	12:33	0	0	259	572	569	40	0	0		
27	14.0	15.4	17:56	12.5	06:05	96.8	98.7	06:03	91.6	00:01	0	0	0	0	0	89	1235	116		
28	18.7	24.4	14:11	15.0	00:35	86.6	100.0	08:53	62.1	14:10	0	0	0	517	269	18	32	604		
29	17.3	21.1	12:47	13.2	23:47	71.1	89.6	23:54	50.5	12:49	0	0	513	328	599	0	0	0		
30	15.9	20.2	14:55	12.0	02:14	85.3	97.0	23:54	56.7	11:49	0	0	28	458	121	421	412	0		
31	16.4	20.3	14:23	14.0	05:49	85.9	98.1	05:36	62.7	14:29	0	0	0	488	133	188	630	1		
Mean	17.8	22.5		13.2		74.9	93.5		51.7				0.00	0.82	4.70	6.91	6.22	2.37	2.50	0.47
Hi	23.3	29.9		16.8		96.8	100.0		91.6	Tot	0	0	1520	8741	12858	11575	4406	4657	883	
Lo	13.3	15.4		8.4		59.0	85.4		28.1											

Note. Aspirated Psychrometer exposed near house. Winds with a component from 030 deg can produce a distorted diurnal temperature profile. Compensation for this is made in post processing, and maxima are constrained to be within 0.2C of screen values about 500m away. Minima on radiation nights can also be about 1C higher than screen values, due partly to topography. No compensation is made for this. Humidity readings are similar to screen derived values under most conditions and in most instances can be considered more accurate due to controlled aspiration. The psychrometer is of experimental design, and logs one minute average values of temp and RH.