

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

JULY 2007

Temperature (°C / °F)			Anomaly	Rank in past 126 years			
Mean maximum	20.7	69.3	-1.8	38 th lowest			
Mean minimum	12.3	54.1	0.0	35 th highest			
Daily mean	16.5	61.7	-0.9	56 th lowest			
Highest maximum	24.1	75.4	on 19 th	Lowest maximum	18.2	64.8	on 20 th
Highest minimum	16.3	61.3	on 16 th	Lowest minimum	6.6	43.9	on 8 th
Mean grass minimum	9.7	49.5		Lowest grass minimum	3.1	37.6	on 8 th
Mean earth @30 cm	18.4	65.1	0.0	Earth @100 cm	18.2	64.8	
Frost duration (hrs)	0.0			Rain duration (hrs)	46.8		
Rainfall total (mm / in)	119.1	4.69	287 %	7 th highest			
Highest daily fall	39.2	1.54	on 20 th				
Number of: Dry days (<0.2mm)	10	Wet days (>0.9mm)	14	days ≥5mm	6		
Sunshine total (hrs) 160,4	Daily mean	5.17	91 %	Sunniest day	13.3	on 31 st	
N° days with: Air frost 0	Ground frost	0	Snow falling	0	Snow lying	0	
Thunder 5	Hail ≥5mm	1	Small hail/ice	0	Fog @09	0	Nil sun 1
Air pressure MSL : Mean @09 GMT (mbar/in)	1011.8	-5.6	29.88				
Absolute highest	1022.3	30.19	on 31 st				
Absolute lowest	996.4	29.42	on 23 rd				

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

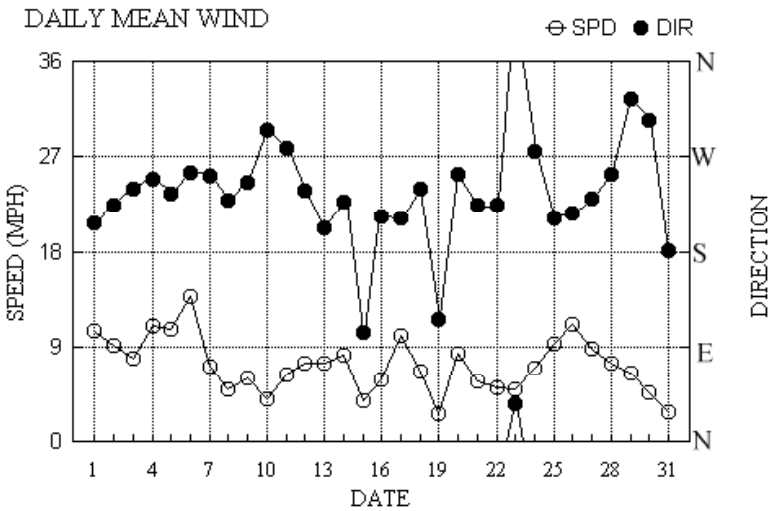
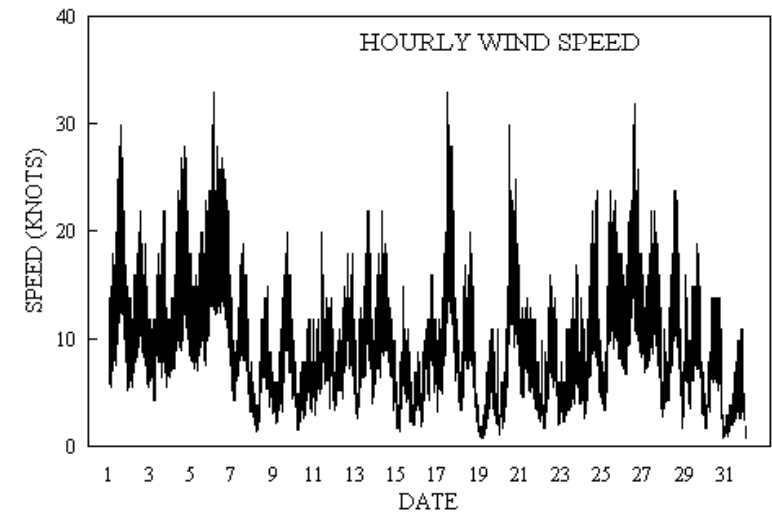
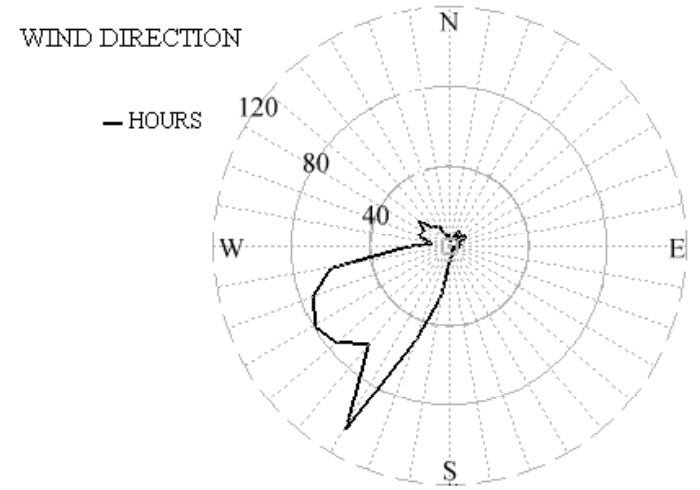
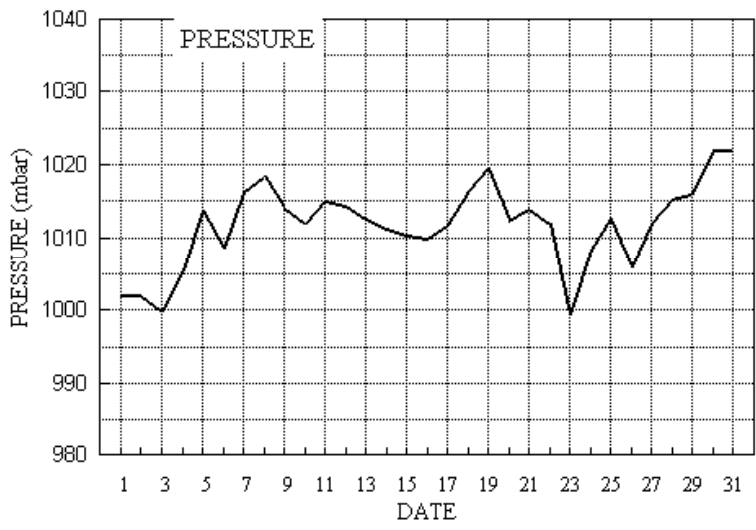
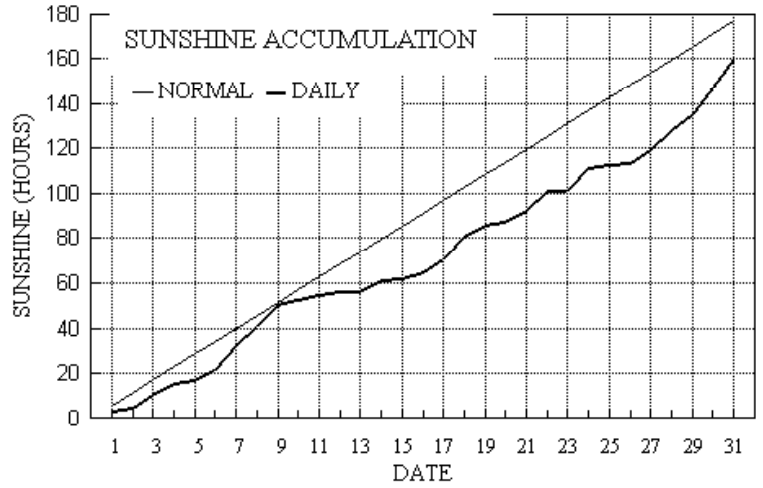
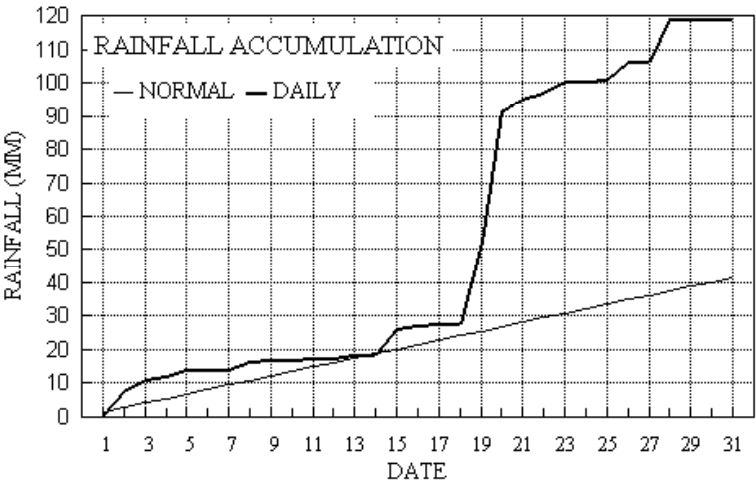
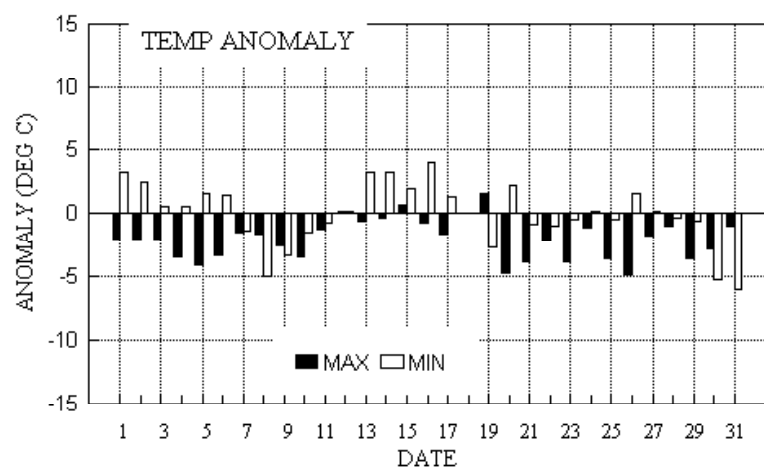
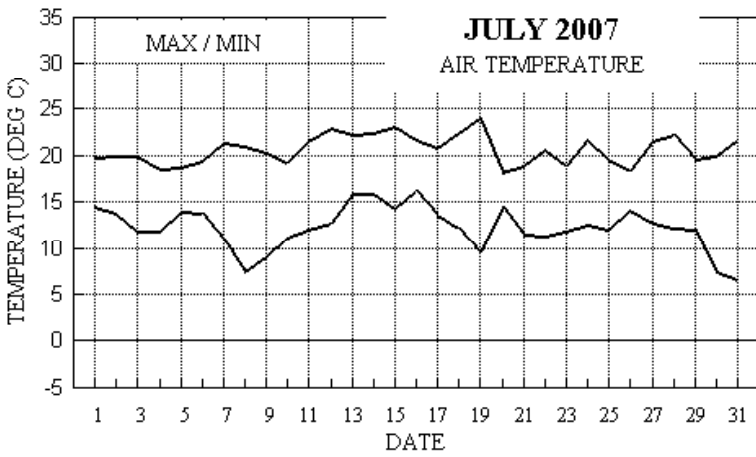
Notes: **Very Wet.** **Dull.** **Below Normal Temperature.**

Temperature. The mean temperature this July is 0.2° below the long-term median and is lowest since 2000. The mean maximum is 0.7° below the median and is also lowest since 2000. The mean minimum is 0.6° above the median and lowest since 2004. There was a marked absence of any hot weather, in contrast to recent years, and the highest max is 4.3° below the median and 10th lowest in 104 years, and lowest since 1988. The lowest min is 0.3° below the median and is lowest since 2000. The lowest max is 1.5° above the median, and the highest min is close to its median. The lowest grass min is lowest since 1995. **Rainfall.** This is the wettest July since 1957, and before that, 1920. The month was dominated by the extreme rainfall event on the 20th when 63.5 mm, or 1.5 times the monthly average, fell between 0200 and 1200 GMT, of which 50.2 mm fell in just 4 hours ending at midday. Rain rates reached 177 mm/hr at 1103 GMT. This rainfall event spanned two rainfall days (09-09 GMT), giving 24.5 mm and 39.2 mm for the 19th and 20th. The combined two day fall is highest for July since before 1976, and 3rd highest for any month in that period. Greater falls were recorded in the surrounding areas, notably around 100 mm at Maidenhead. There was local flooding when the Emm brook and Loddon river burst their banks. Thunder occurred on the 20th as well as on the 19th, 15th, 9th and 3rd, and 5 mm dia. hail fell on the 3rd. Rain rates reached 123 mm/hr during a violent shower on the 2nd. **Sunshine.** This was not a sunny July, dullest since 2002, and the 13.3 hours on the month's sunniest day is lowest since 1998. There were only 9 days having over half the maximum possible. Sunshine accumulation was below normal throughout, and stood at only 77 % of normal on the 27th. Overall there were 12 days with <3 hours, 11 with =>6 hours, 7 with =>9 hours and 1 with =>12 hours. **Wind.** The mean speed of 7.3 mph is 1.1 mph above average and is highest for July since 1993. The 6th was the windiest day, mean 13.7 mph, and the month's highest gusts of 38 mph were on the 6th and 17th. The 19th was the least windy day, mean 2.6 mph, and there were 365 minutes (6.1 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,0 NE,1 E,1 SE,1 S,1 SW,17, W,7 NW,3. **Humidity.** The overall mean relative humidity was 75.0 % and the lowest value recorded was 29 % on the 18th. The mean water vapour content per kg of air was 8.8 g at 0900 GMT and 8.0 g at 1500 GMT. **Pressure.** Both the mean and absolute maximum air pressure are lowest since 1988. **Commentary. From the 1st to the 10th :** Mean anomalies (max, min, rain, sun) -2.6°, -0.1°, 125 %, 92 %. Anomalies for daily max ranged from -4.1° on the 5th to -1.5° on the 7th, while for min the range was -5.0° on the 8th to +3.3° on the 1st. Only 3 dry days and a total of 16.8 mm, yet this is the driest period of the month. Sunshine was poor with 6 days having <33% of the max and only 1 with >66%. SW'ly winds were moderate or fresh until the 7th, then light or moderate, becoming NW'ly on the 10th. **From the 11th to the 20th :** Mean anomalies, -0.7°, +1.3°, 557 %, 62 . Daily anomalies for max ranged from -4.7° on the 20th, the month's coolest day, to +1.6° on the 19th, the month's warmest. For min, anomalies range from -2.7° on the 19th to +4.0° on the 16th, the month's mildest night. Just 2 dry days, but the rainfall total of 74.6 mm is dominated by the 2 day fall of 63.7 mm on the 19th/20th, including 39.2 mm on the 20th, the month's wettest day. Sunshine was again poor, 7 days with <33% of the max, and none with >66 %. Moderate W'ly winds on the 11th backed SW'ly by 13th, becoming light E'ly on 15th, veering fresh SW'ly by the 17th, temporarily dropping light E'ly on 19th. **From the 21st to the 31st :** Mean anomalies, -2.7°, -1.2°, 188 %, 116 %. Daily anomalies for max ranged from -4.9° on the 26th to -1.0° on the 31st. Anomalies for min ranged from -6.1° on the 31st, the month's coolest night, to +1.5° on the 26th. 5 dry days, but a fall of 12.8 mm on the 28th took the total to 27.7 mm. Improved sunshine amounts, 4 days with <33% and 2 with >66%, including 86% of max on the 31st, the month's sunniest day. Light or moderate winds were mainly SW'ly, temporarily increasing fresh on 26th, veering NW'ly by 29th, ending the month light S'ly.

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham Climatological Graphs for July 2007



Month: JULY 2007

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 ddd	mean ff	sp	Max gust ddd	gg	HHhh	High hr ddd	ff	HH	Rain hrs	
1	19.8	14.6	0.2	13.4	17.7	17.6	3.7	0.0	1002.0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	207	9.0	9.1	210	30	1403	210	14	14	0.3	
2	19.9	13.8	7.6	11.9	17.8	17.7	1.3	0.0	1002.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	224	7.8	7.9	230	22	1327	230	11	12	2.9	
3	19.9	11.8	3.1	9.4	17.8	17.7	5.7	0.0	999.8	0 0 0 0	1 1 0 0	0 0 0 0	0 0 0 0	240	6.5	6.8	260	22	1737	260	9	16	1.6	
4	18.5	11.8	1.3	10.2	18.0	17.7	4.7	0.0	1005.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	249	9.4	9.5	260	28	1558	250	12	16	0.6	
5	18.7	14.0	1.8	12.3	18.0	17.8	1.5	0.0	1013.7	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	235	8.6	9.2	240	24	2146	240	14	23	2.3	
6	19.5	13.8	tr	11.3	17.8	17.8	4.7	0.0	1008.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	255	11.9	11.9	250	33	0213	260	15	12	0.0	
7	21.3	11.0	0.0	7.3	17.7	17.8	11.0	0.0	1016.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	252	5.7	6.1	270	19	1223	250	9	11	0.0	
8	21.1	7.4	2.3	3.1	18.0	17.8	8.8	0.0	1018.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	229	3.9	4.2	230	15	1757	230	9	17	0.8	
9	20.3	9.1	0.5	4.4	18.2	17.9	9.4	0.0	1014.1	0 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	246	4.6	5.3	300	20	1716	280	10	17	0.9	
10	19.3	11.2	0.0	9.4	18.3	17.9	1.7	0.0	1011.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	295	2.3	3.5	310	12	1730	300	5	17	0.0	
11	21.5	12.0	0.4	10.3	18.3	18.0	2.7	0.0	1015.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	279	5.1	5.5	280	20	0834	290	8	09	1.3	
12	23.0	12.8	tr	8.8	18.2	18.0	0.9	0.0	1014.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	238	6.2	6.5	240	18	1446	250	11	15	0.0	
13	22.2	16.0	1.1	13.8	18.4	18.1	0.6	0.0	1012.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	203	6.3	6.5	210	22	1430	210	12	14	1.5	
14	22.4	16.0	0.1	14.9	18.5	18.1	4.6	0.0	1011.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	228	6.8	7.1	240	22	0607	240	10	06	0.1	
15	23.1	14.3	7.8	12.3	19.0	18.2	1.0	0.0	1010.3	0 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	103	1.6	3.3	90	15	0753	80	7	08	2.9	
16	21.7	16.3	0.8	14.8	19.3	18.3	2.7	0.0	1009.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	213	5.0	5.1	210	16	1621	210	8	15	0.6	
17	20.9	13.6	0.5	8.7	19.3	18.4	6.0	0.0	1011.7	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	212	8.6	8.7	210	33	1135	210	14	12	0.5	
18	22.5	12.3	0.2	8.1	19.0	18.5	9.8	0.0	1016.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	239	4.9	5.7	260	20	1449	250	10	13	0.1	
19	24.1	9.6	24.5	7.0	19.0	18.5	5.5	0.0	1019.5	0 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	116	1.1	2.3	120	11	1431	120	5	14	6.9	
20	18.2	14.6	39.2	13.0	19.3	18.6	1.5	0.0	1012.3	0 0 0 0	1 0 0 0	0 0 0 0	0 0 0 0	254	5.4	7.3	250	30	1118	250	14	11	2.9	
21	19.0	11.5	4.1	9.0	18.4	18.7	4.9	0.0	1013.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	225	4.7	4.9	220	14	0844	230	7	06	4.2	
22	20.7	11.4	1.5	9.9	18.5	18.6	8.7	0.0	1011.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	225	3.5	4.4	200	15	1233	220	7	15	1.1	
23	19.0	11.9	3.8	7.9	18.7	18.6	0.0	0.0	999.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	35	3.7	4.2	30	17	1833	20	8	19	4.2	
24	21.7	12.5	0.0	9.9	18.4	18.6	9.9	0.0	1008.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	275	5.5	6.1	270	24	1716	260	10	17	0.0	
25	19.7	12.1	0.3	7.5	18.6	18.6	1.4	0.0	1012.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	212	8.1	8.1	220	24	1013	210	11	10	0.4	
26	18.4	14.1	5.2	12.1	18.3	18.6	1.0	0.0	1005.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	216	9.5	9.7	220	32	1422	210	15	11	1.7	
27	21.5	12.8	tr	10.4	18.0	18.6	5.5	0.0	1011.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	231	7.6	7.7	230	22	0941	240	11	12	0.0	
28	22.3	12.2	12.8	9.3	18.2	18.5	9.3	0.0	1015.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	253	5.8	6.4	260	24	1237	260	11	12	9.0	
29	19.7	12.0	0.0	11.9	18.5	18.5	7.0	0.0	1016.0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	325	4.7	5.6	300	19	1429	300	8	14	0.0	
30	20.0	7.5	0.0	3.7	18.2	18.5	11.6	0.0	1022.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	305	3.4	4.1	320	14	0759	310	7	12	0.0	
31	21.8	6.6	0.0	3.3	18.0	18.5	13.3	0.0	1021.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	181	0.6	2.4	200	11	1928	190	5	19	0.0	
Total			119.1				160.4	0.0																46.8
Mean	20.7	12.3		9.7	18.4	18.2	5.17	0.0	1011.8					237	4.8	6.3								
Anom	-1.8	-0.0	287%		-0.0	+2.0	91%																	

Number of days with:

Air frost = 0 Ground frost = 0 Nil sun = 1
Snow falling = 0 Snow lying = 0 Thunder = 5
Hail=>5mm = 1 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 2007

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	65	7	21	10	19	16.4	13.6	83	9.8	1002.0	7	006	20	6	5	7	8	4	/	/	81710	85815	87635				1	jpW	
2	58	8	24	08	18	15.8	12.9	83	9.4	1002.1	3	008	62	6	2	7	8	4	2	/	84815	86625	88550				2	/Sc040 Cu hum	
3	86	6	24	08	16	16.8	11.0	69	8.3	999.8	6	012	03	2	2	6	8	5	3	2	85820						3	2Sc50 1Ac60 1Ci75 Cu med	
4	84	5	26	10	23	16.9	8.7	59	7.1	1005.5	2	011	03	1	1	3	2	6	0	1	83832	83075					4	Cu hum/med COTRA	
5	86	7	26	09	17	17.5	12.1	70	8.8	1013.7	1	007	03	2	2	7	8	5	/	6	82823	86656	85275				5	Cu med	
6	82	7	26	14	28	15.9	8.0	59	6.7	1008.6	2	018	03	1	1	7	8	6	/	/	82830	87638					6	Cu hum	
7	86	5	26	08	16	17.2	10.2	64	7.8	1016.2	1	004	03	1	1	5	2	5	0	0	85828						7	Cu hum/med	
8	86	4	23	04	08	17.7	9.3	58	7.2	1018.5	8	006	03	0	0	1	2	6	0	8	81832	84078					8	1Cs75 COTRA Cu med	
9	84	3	25	04	10	16.0	10.3	69	7.8	1014.1	4	000	03	0	0	2	2	5	0	3	82825						9	2Ci72 Cu con. Cb top S	
10	86	7	33	02	06	14.8	10.4	75	7.9	1011.9	1	008	03	2	2	7	8	5	3	1	83820	86635					10	/Ac68 /Ci73 COTRA Cu med	
11	86	7	27	07	16	16.3	9.1	63	7.2	1015.1	1	002	03	2	2	7	8	5	/	/	82825	87635					11	Cu fra/hum	
12	59	8	22	04	10	16.3	15.1	93	10.7	1014.4	6	008	50	5	2	8	7	2	/	/	82705	87707	88710				12		
13	66	7	19	06	13	18.7	15.7	83	11.2	1012.6	8	009	01	2	2	7	5	3	/	/	83708	86612	87620				13		
14	84	7	24	08	17	17.0	13.3	79	9.5	1011.3	2	025	01	2	2	7	8	5	3	/	83820	87628					14	/Ac65	
15	80	8	07	06	15	20.2	14.4	69	10.3	1010.3	7	019	01	2	2	1	8	5	7	7	81825	88275					15	1Sc45 1Ac57 1Ac65 COTRA Cu hum u/a cont	
16	78	7	23	05	08	18.8	15.8	83	11.3	1009.9	1	009	01	6	2	3	2	4	7	8	83818	87275					16	2Ac62 COTRA Cu med Halo 22 part	
17	70	7	20	09	19	18.0	13.2	74	9.5	1011.7	0	002	80	8	2	3	9	5	6	3	82920	82825	85072				17	1Sc50 2Ac60	
18	84	5	23	09	17	18.2	12.5	69	9.0	1016.5	2	011	03	2	2	5	8	5	0	0	85825						18	1Sc35 Cu med	
19	82	7	18	02	04	19.4	12.0	62	8.7	1019.5	4	000	02	2	2	3	0	9	8	2	82358	87075					19	2Ac62 Ac cas	
20	22	8	31	04	09	14.8	14.3	97	10.2	1012.3	7	019	95	9	6	8	9	2	/	/	83705	86708	88915				20		
21	86	6	23	07	13	16.8	11.3	70	8.3	1013.9	1	006	03	1	1	6	8	5	0	1	86824						21	1Sc30 2Ci75 COTRA Cu hum	
22	84	7	22	05	10	15.1	10.3	73	7.8	1011.9	2	008	03	2	2	3	2	4	3	1	83818	86080					22	1Ac60 COTRA Cu hum/med	
23	72	8	06	04	11	16.7	14.4	86	10.4	999.3	7	018	60	6	2	1	1	5	7	/	81825	86357	88460				23	Cu fra	
24	72	7	31	06	14	16.3	12.1	76	8.9	1008.3	2	022	03	1	1	7	8	4	/	/	85818	84630					24	Cu med	
25	80	7	22	09	20	17.8	12.0	69	8.8	1012.6	8	004	03	2	2	7	8	5	3	1	82820	86630	85075				25	1Ac62 Cu hum	
26	60	8	20	10	21	16.6	13.4	81	9.7	1005.8	7	010	60	6	2	5	8	4	7	/	81815	85620	86360				26	8As62 Cu fra/hum	
27	81	5	24	10	18	17.8	11.6	67	8.5	1011.9	1	012	03	1	1	5	8	5	0	1	84824						27	1Sc30 1Sc56 1Ci78 Cu hum	
28	84	5	26	07	16	18.7	11.6	63	8.5	1015.2	1	014	03	1	1	2	2	5	0	1	82825	84080					28	COTRA Cu med	
29	84	7	30	07	14	14.7	11.1	79	8.2	1016.0	2	016	03	2	2	3	2	4	7	8	83815	84365	86272				29	2Ac62 Cu med	
30	86	2	30	06	12	15.3	8.6	64	6.9	1022.1	0	002	03	0	0	2	2	5	0	1	82828						30	1Ci78 Cu med	
31	84	6	23	01	05	16.5	10.5	68	7.8	1021.9	8	002	03	1	1	1	1	5	0	1	81824	86080					31	1Ci72 COTRA Cu hum	

Mean vis = 38.9 km

Mean cloud = 6.4 80%

Mean wind speed = 6.7 kn

Mean gust = 14 kn

Mean TT = 16.9 C

Mean TdTd = 11.9 C

Mean RH = 72.8 %

Mean r = 8.8 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.

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 1500 GMT for JULY 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks														
1	80	6	21	12	25	18.5	11.6	64	8.6	1001.8	5	001	02	2	2	6	8	5	0	1	83828	83645	1	1	Ci75	Cu	med							
2	82	6	23	08	16	19.2	15.3	78	10.9	1002.5	0	004	25	8	1	2	9	4	7	6	81915	82822	85078	2	2	Ac60	1Ac65	2Cs75	Cb	N				
3	80	5	24	07	17	19.9	8.9	49	7.2	998.5	7	007	25	9	8	3	9	6	6	3	82930	82838	83070	3	1	Sc50	2Ac60	Cb	all	quads.	vv	60k	ex	p
4	84	7	26	11	22	17.7	10.8	64	8.1	1006.8	0	004	15	8	2	5	8	5	7	/	83825	83650	86359	4	Cu	med	jp	W						
5	67	8	21	09	21	15.6	11.1	75	8.2	1012.4	8	010	60	6	2	2	8	5	7	/	81820	83357	88460	5	2	Sc35	Cu	med						
6	82	5	26	13	25	18.8	9.3	54	7.3	1011.4	1	008	02	2	2	5	8	6	0	1	82835	84656		6	1	Ci75	Cu	med						
7	86	5	27	08	16	20.8	6.5	39	6.0	1016.5	2	001	01	2	2	3	2	7	0	1	83850	83078		7	Cu	med								
8	88	5	27	05	13	20.0	6.0	40	5.8	1016.0	7	011	03	1	1	2	2	7	6	0	82850	84357		8	Cu	con								
9	80	3	22	10	16	19.3	9.7	54	7.4	1013.0	7	005	15	1	1	2	9	6	6	3	81940			9	1	Cu45	2Ac57	1Ci72	jp	N,E&S	vv	50k	ex	p
10	86	7	30	05	10	18.0	8.5	54	6.9	1013.3	1	003	02	2	2	7	8	6	/	1	82838	87656		10	2	Sc45	Cu	med						
11	84	5	29	07	14	20.1	8.6	47	6.9	1014.6	8	008	01	2	2	5	8	6	0	0	82840	84645		11	Cu	hum								
12	84	6	24	10	18	22.5	17.1	72	12.1	1013.6	8	003	01	2	2	3	8	5	3	1	83822	84078		12	1	Sc40	1Ac65	COTRA	Cu	med				
13	81	7	21	12	24	21.2	13.9	63	9.9	1010.3	7	011	02	2	2	6	8	6	7	/	83830	84640	86360	13	Cu	hum								
14	84	7	24	08	16	21.0	10.4	51	7.8	1013.6	2	009	02	2	2	2	8	6	2	1	82840	87075		14	1	Sc50	2Ac65	Absent	vv&cld	est				
15	50	8	12	05	09	19.9	18.5	92	13.3	1009.0	5	009	92	9	6	2	9	3	9	/	81708	82956	83358	15	1	Sc15	8As62	tl	1424-52					
16	82	7	21	07	12	20.6	12.6	60	9.1	1009.7	6	006	02	2	2	2	2	6	7	8	82832	83466	87272	16	1	Ac65	1Sc68	Cu	med					
17	81	6	22	12	25	18.8	11.0	60	8.1	1012.5	3	009	25	8	2	2	9	6	6	3	81930	83835	83357	17	2	Ci72	Cu	con	jp	N				
18	88	1	26	08	18	22.4	4.7	31	5.2	1018.0	2	005	01	1	1	1	2	6	0	3	81848			18	1	Ci72	COTRA	Cu	med	S	Cb	top	E&S	
19	84	7	14	05	11	21.7	8.7	43	6.9	1017.6	6	016	15	1	1	2	8	7	6	/	82850	83358	85362	19	1	Sc56	Cu	con	jp	SW				
20	88	7	23	11	22	17.9	11.6	67	8.5	1010.3	0	013	03	2	2	6	8	5	7	1	83828	85635		20	3	Ac62	/Ci75	Cu	med					
21	50	7	18	05	11	15.0	12.7	86	9.1	1012.1	7	006	81	8	2	7	8	5	/	/	82920	84825	85650	21	Absent	vv&cld	est							
22	86	7	22	04	12	18.7	9.7	56	7.5	1009.8	7	013	02	2	2	4	8	6	3	1	82835	83656		22	1	Sc45	3Ac58	/Ci78	COTRA	Cu	med			
23	62	8	06	04	13	16.3	13.8	85	9.9	996.6	6	012	60	6	2	8	5	5	/	/	81625	85630	88645	23	Absent	vv&cld	est							
24	86	6	26	08	18	20.1	7.8	45	6.6	1011.7	2	016	02	2	2	6	8	7	0	1	82850	85656		24	1	Ci78	Cu	hum	med					
25	62	8	21	11	22	16.7	14.7	87	10.4	1011.2	6	010	50	5	6	8	5	4	/	/	81710	86712	88618	25	Absent	vv&cld	est							
26	70	6	21	08	29	15.2	13.4	89	9.6	1002.4	5	009	21	6	2	1	7	3	7	8	81708	83550	85360	26	1	Sc25	6Cs70	CF	1420					
27	84	7	24	09	19	19.7	11.0	57	8.1	1011.8	7	001	15	2	2	7	8	6	/	/	82837	86656		27	2	Sc45	Cu	med	jp	W				
28	86	5	26	10	23	21.6	7.4	40	6.4	1016.1	0	000	01	2	2	2	8	6	3	1	82848	83368		28	1	Sc56	2Ci78	Cu	hum					
29	86	4	34	07	17	19.2	5.6	41	5.6	1016.7	0	003	02	1	1	2	8	7	3	0	82850	83362		29	1	Sc56	Absent	vv&cld	est					
30	86	5	36	05	12	18.0	5.0	42	5.3	1021.7	7	001	02	1	1	5	4	7	0	2	81850	85656		30	1	Ci78	Cu	hum						
31	86	3	11	03	10	20.2	4.0	34	5.0	1019.5	7	018	02	1	1	1	1	7	0	1	81856			31	1	Ci72	2Ci80	COTRA	Cu	hum	Ci	flo		

Mean vis = 43.3 km

Mean cloud = 5.9 74%

Mean wind speed = 8.0 kn

Mean gust = 17 kn

Mean TT = 19.2 C

Mean TdTd = 10.3 C

Mean RH = 58.7 %

Mean r = 8.0 g/kg

Mean PPP = 1011.3 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

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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.

