

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 2007

Temperature (°C / °F)			Anomaly	Rank in the past 126 years			
Mean maximum	18.6	65.5	+5.5	* Equal highest *			
Mean minimum	5.3	41.5	+1.2	10 th highest			
Daily mean	11.9	53.4	+3.3	* Highest *			
Highest maximum	24.4	75.9	on 15 th	Lowest maximum	10.2	50.4	on 3 rd
Highest minimum	13.0	55.4	on 25 th	Lowest minimum	-1.0	30.2	on 5 th
Mean grass minimum	1.2	34.2		Lowest grass minimum	-5.3	22.5	on 5 th
Mean earth @30 cm	11.4	52.5	+2.0	Earth @100 cm	11.3	52.3	+2.5
Frost duration (hrs)	4.3			Rain duration (hrs)	2.4		
Rainfall total (mm / in)	1.5	0.06	3 %	3 rd lowest			
Highest daily fall	0.8	0.03	on 26 th				
Number of: Dry days (<0.2mm)	28	Wet days (>0.9mm)	0	days ≥5mm	0		
Sunshine total (hrs)	242.8	Daily mean	8.09	188%	Sunniest day	14.1	on 30 th
N° days with: Air frost	2	Ground frost	14	Snow falling	0	Snow lying	0
Thunder	0	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0
						Nil sun	1
Air pressure MSL : Mean @09 GMT (mbar/in)	1023.5		+8.2	30.22			
Absolute highest	1029.6			30.40		on 2 nd	
Absolute lowest	1011.1			29.86		on 25 th	

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

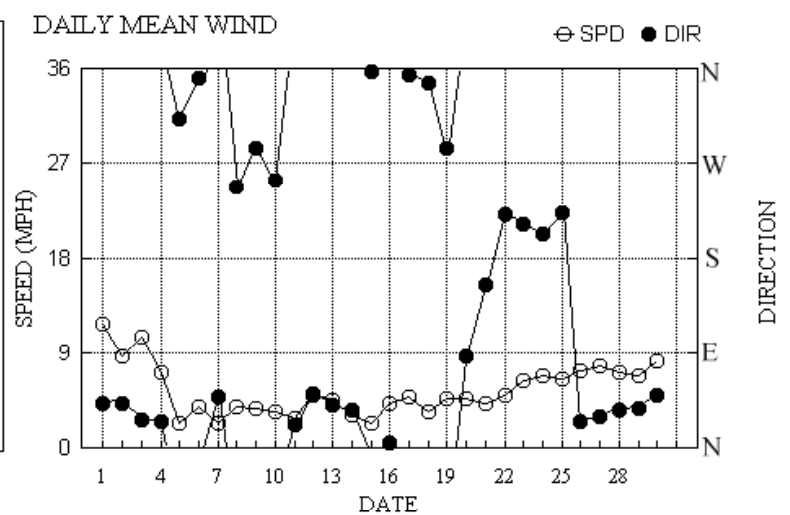
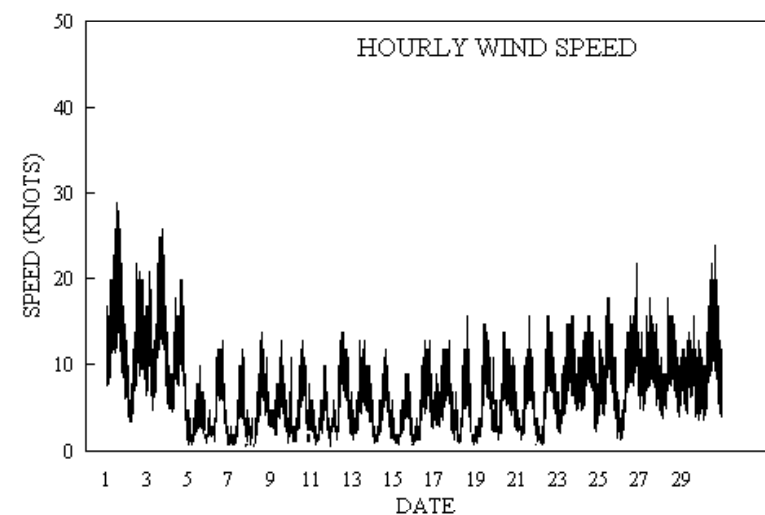
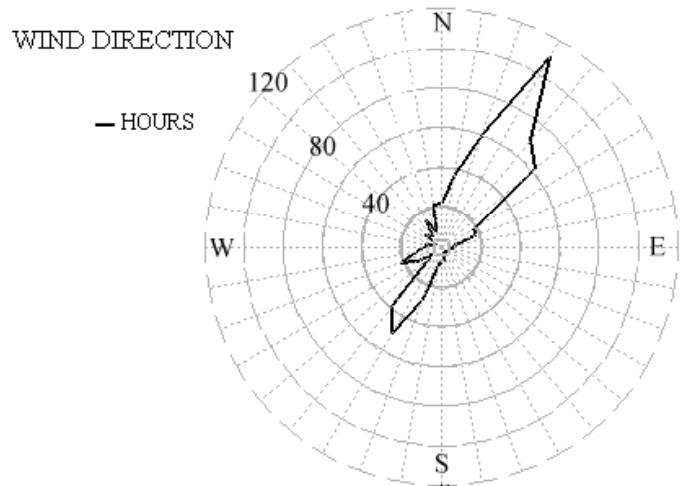
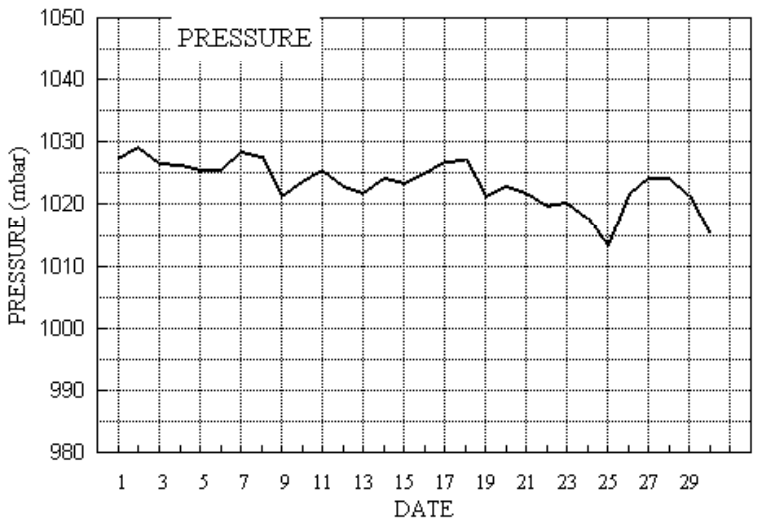
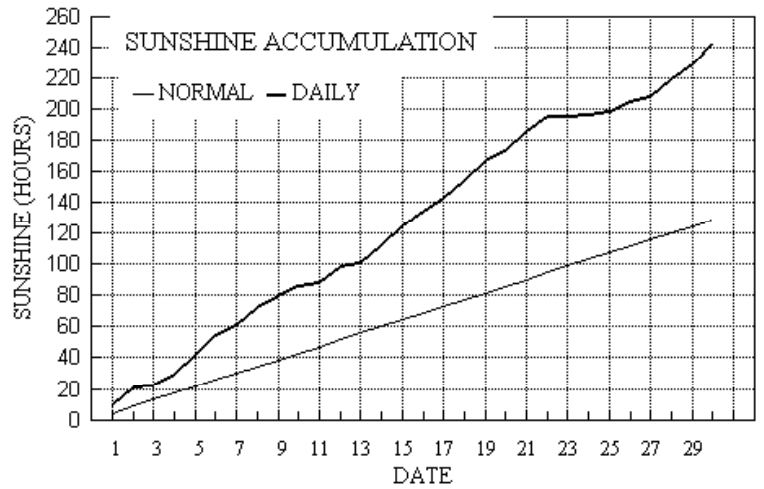
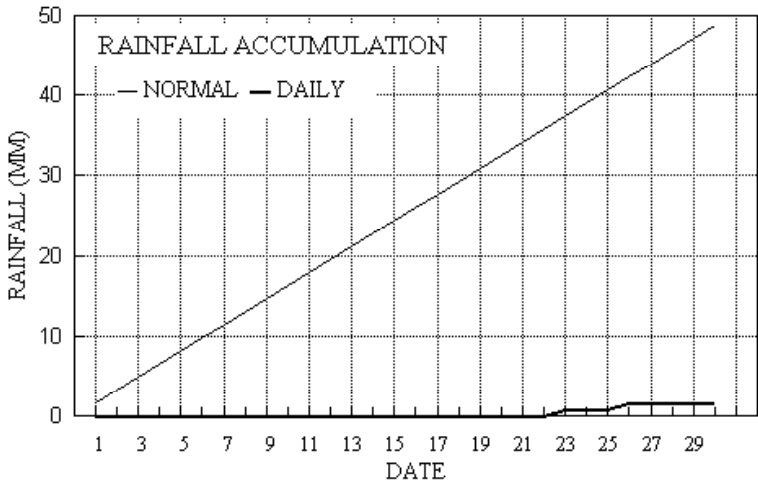
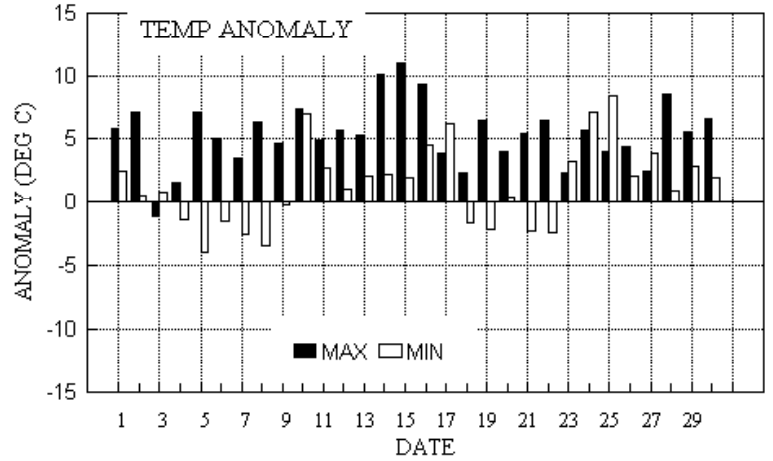
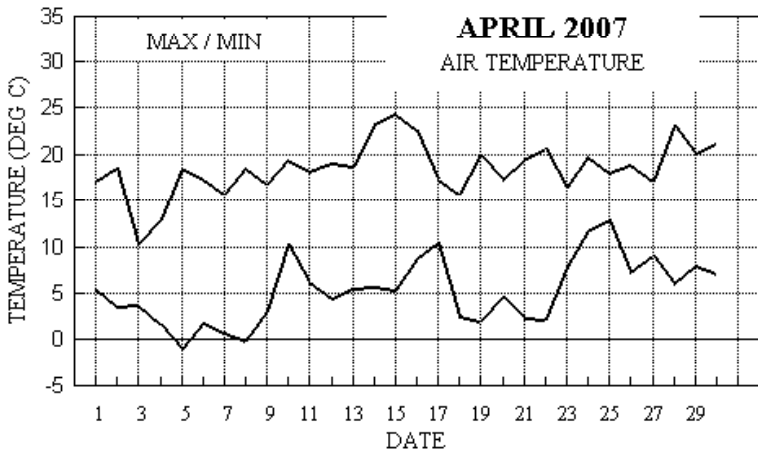
Notes:

Record high temperatures. Very Dry. Very Sunny.

Temperature. This is the warmest April since before 1882, the mean temperature of 11.0° being 0.7° above the previous highest in 1943. The mean maximum is equal highest with 1893, and is 1.6° above the mean maximum for May. Conversely the mean minimum is 1.1° below the highest on record, and is 0.1° lower than in 2006. The resulting mean daily temperature range, 13.3° (average 9.4°), is highest since 1893. The highest max is 3.7° above the median but 2.2° below the record. The lowest min is 0.9° above the median and 4.2° above the lowest on record. The lowest max is 2.6° above the median and 8.7° above the lowest on record, while the highest min is 3.2° above the median and is a new record, 0.2° above the previous highest in 2005. The mean grass min is 0.5° above the average. Mean earth temperatures at both 30 cm and 1 m depth are new record highs. Air frost duration is 11.9 hours below average. The number of air frosts is 2 below average but ground frosts are equal to average. **Rainfall.** An unusually dry month, with only 1.5 mm of rain in total, and just 2 days with measurable rain. It is the driest April since 1912, and the highest daily fall is also 2nd lowest after 1912 in 104 years. A 23 day dry spell ended on the 22nd and another started on the 27th and continues into May. The number of dry days is a new record for April. **Sunshine.** An unusually sunny April, probably 2nd sunniest after 1912 in 100 years. The daily mean of 8.09 hours can be compared with the average values for July and August of 5.7 and 5.8 hours respectively. The month ended appropriately with 14.1 hours on the 30th, a new April daily highest for the past 29 years. Overall there were 6 days with <3 hours, 22 with =>6 hours, 15 with =>9 hours and 6 with =>12 hours. **Wind.** The mean wind speed of 5.4 mph is 1.7 mph below average and equal lowest with 1997 since 1988. The 1st was the windiest day, mean 11.9 mph, and the month's highest gust of 33 mph was also on that day. The 5th and 7th were joint least windy days, mean 2.3 mph. There were 1444 minutes (24.07 hours) with a mean speed of 0.5 mph or less. Daily mean direction/number of days: N,6 NE,13 E,1 SE,1 S,0 SW,4 W,4 NW,1. **Humidity.** The overall mean relative humidity was 69.5 %, and the lowest value was 21 % on the 19th. The mean water vapour content per kg of air was 6.4 g at 0900 GMT and 5.8 g at 1500 GMT. **Pressure.** Both the mean pressure and the lowest value are highest since before 1976. **Commentary. From the 1st to the 10th :** Mean anomalies (max, min, rain, sun), +4.7°, -2.2°, 0 %, 200 %. Daily maxima were above normal, with anomalies up to +7.3° on the 10th, with the sole exception of the 3rd, anom -1.2°, the month's coldest day. Anomalies for minima were generally below normal, ranging from -4.0° on the 5th, the month's coldest night, but up to +7.0° on an exceptional 10th. Dry apart from traces on the 2nd and 3rd. Very sunny, with >66% of the maximum on 5 days, including 3 over 90 %, and only 1 day with <33%. Winds were moderate or fresh NE'ly at first, becoming light from between W and N from the 5th on. **From the 11th to the 20th :** Mean anomalies +6.3°, +1.7°, 0 %, 205 %. Anomalies for daily max ranged from +2.4° on the 18th to +11.0° on the 15th, the month's warmest day. Anomalies for daily min were in the range -2.2° on the 19th to +6.2° on the 17th. There was no rainfall. It was again very sunny, with 6 days having >66% of maximum, including 2 with >90 %, and just 2 with <33%. Winds were light throughout, and generally N'ly. **From the 21st to the 30th :** Mean anomalies, +5.2°, +2.6°, 9 %, 160 %. Daily anomalies for max ranged from +8.5° on the 28th to +2.4° on the 23rd, and for min -2.4° on the 22nd to +8.4° on the 25th, the month's mildest night. The first measurable rain of the month was 0.7 mm on the 23rd, with another 0.8 mm on the 26th, the month's wettest day, the rest of the days were dry. Not quite as sunny as in the previous periods, with 3 days with >66% and 4 with <33% of the maximum. Winds were mainly moderate, S'ly or SW'ly until the 25th, then NE'ly.

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

Wokingham Climatological Graphs for April 2007



Month: APRIL 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 mean ddd ff sp	Max gust ddd gg HHhh	High hr ddd ff HH	Rain hrs	
1	17.2	5.5	0.0	1.9	8.6	9.6	9.9	0.0	1027.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	41 10.1 10.3	60 29 1235	50 14 13	0.0	
2	18.5	3.5	tr	-2.9	8.8	9.7	11.7	0.0	1029.3	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	42 7.4 7.5	50 22 1154	50 11 12	0.0	
3	10.2	3.8	tr	-2.0	9.2	9.8	0.7	0.0	1026.6	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	27 9.1 9.2	30 26 1813	20 14 15	0.0	
4	12.9	1.6	0.0	-3.5	8.6	9.9	7.9	0.0	1026.5	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	25 6.2 6.2	30 20 1513	30 10 14	0.0	
5	18.5	-1.0	0.0	-5.3	8.4	9.9	12.4	3.6	1025.5	1 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	313 0.6 2.0	340 10 1337	10 3 12	0.0	
6	17.3	1.8	0.0	-1.8	8.9	9.9	12.3	0.0	1025.5	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	351 2.2 3.3	20 13 1558	340 7 12	0.0	
7	15.7	0.8	0.0	-2.9	9.3	10.0	6.8	0.0	1028.5	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	48 1.2 2.0	30 12 1401	70 4 10	0.0	
8	18.5	-0.1	0.0	-4.1	9.3	10.1	11.4	0.7	1027.8	1 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	248 3.1 3.4	250 14 1414	250 7 14	0.0	
9	16.8	3.1	0.0	-2.0	9.8	10.2	7.3	0.0	1021.3	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	285 2.1 3.2	300 13 1256	280 5 13	0.0	
10	19.5	10.3	0.0	8.8	10.5	10.3	5.8	0.0	1023.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	254 2.5 3.0	260 13 1354	250 7 14	0.0	
11	18.3	6.2	0.0	1.2	11.3	10.5	3.0	0.0	1025.7	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	22 1.5 2.4	360 10 1507	30 5 15	0.0	
12	19.1	4.5	0.0	-0.7	11.2	10.7	10.0	0.0	1023.1	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	49 4.3 4.4	50 14 1033	50 8 10	0.0	
13	18.7	5.6	0.0	0.9	11.4	10.9	2.3	0.0	1022.0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	40 3.8 3.9	60 13 1358	50 6 13	0.0	
14	23.4	5.7	0.0	1.8	11.6	11.1	11.5	0.0	1024.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	36 2.6 2.7	20 12 1442	40 6 14	0.0	
15	24.4	5.4	0.0	0.5	12.1	11.3	12.7	0.0	1023.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	358 1.6 2.1	30 9 1254	350 4 15	0.0	
16	22.7	8.7	0.0	4.0	12.6	11.5	9.3	0.0	1025.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	4 3.0 3.7	360 13 1710	360 7 17	0.0	
17	17.3	10.4	0.0	8.5	13.1	11.7	8.0	0.0	1026.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	354 4.1 4.2	360 13 1623	360 7 16	0.0	
18	15.8	2.5	0.0	-2.0	12.6	12.0	11.5	0.0	1027.2	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	346 2.1 2.9	330 16 1333	350 6 14	0.0	
19	19.9	2.0	0.0	-2.1	12.2	12.1	13.0	0.0	1021.3	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	285 2.4 4.1	270 15 1114	260 8 10	0.0	
20	17.4	4.6	0.0	-0.9	12.3	12.2	6.3	0.0	1023.0	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	87 3.7 4.1	80 14 0847	70 7 08	0.0	
21	19.5	2.3	0.0	-2.0	12.2	12.3	12.9	0.0	1022.0	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	155 2.6 3.7	180 16 1410	220 7 15	0.0	
22	20.6	2.2	tr	-2.3	12.2	12.4	8.5	0.0	1019.8	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	221 3.8 4.4	220 16 1348	250 8 11	0.0	
23	16.5	7.8	0.7	2.9	12.5	12.4	0.0	0.0	1020.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	212 5.5 5.6	210 16 1831	220 9 13	2.0	
24	19.8	11.7	tr	11.0	12.8	12.5	1.5	0.0	1017.8	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	203 5.2 5.9	210 16 1207	210 9 12	0.0	
25	18.1	13.0	tr	10.4	13.3	12.6	1.8	0.0	1013.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	223 4.5 5.6	220 18 1046	210 10 10	0.0	
26	19.0	7.2	0.8	1.7	13.1	12.7	6.6	0.0	1021.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	25 6.3 6.3	30 22 1928	30 10 19	0.4	
27	17.1	9.0	0.0	7.0	13.2	12.8	2.9	0.0	1024.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	29 6.7 6.8	40 18 1127	40 9 11	0.0	
28	23.1	6.0	0.0	0.6	13.2	13.0	11.3	0.0	1024.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	35 6.1 6.2	40 18 0843	40 8 14	0.0	
29	20.2	8.0	0.0	6.8	13.6	13.0	9.4	0.0	1021.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	37 5.8 5.9	40 16 1417	40 8 15	0.0	
30	21.2	7.1	0.0	3.0	14.0	13.2	14.1	0.0	1015.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	49 6.9 7.1	70 24 1552	60 11 14	0.0	
Total			1.5				242.8	4.3										2.4
Mean	18.6	5.3		1.2	11.4	11.3	8.09	0.1	1023.5					26 2.1 4.7				
Anom	+5.5	+1.2	3%		+2.0	+2.5	188%		+8.2									
Daily mean		11.9																
Anom		+3.3																
Number of days with:																		
Air frost = 2																		
Ground frost = 14																		
Nil sun = 1																		
Snow falling = 0																		
Snow lying = 0																		
Thunder = 0																		
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 1500 GMT for APRIL 2007

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	hshs	NChs	Date	Remarks
1	65	1	06	14	28	16.8	-1.0	30	3.5	1026.1	7	008	02	0	0	0	0	9	0	1	81075				1	
2	60	1	05	10	20	17.9	1.2	32	4.1	1026.4	7	015	05	0	0	1	1	7	0	0	81856				2	Cu hum
3	82	7	02	12	25	8.5	0.8	59	4.0	1025.4	0	000	02	8	2	7	8	5	/	/	81825	84830	87638	3	Cu hum	
4	78	4	03	10	18	11.7	1.1	48	4.1	1024.0	7	018	01	1	1	2	4	6	0	1	82640	83078		4	COTRA	
5	67	5	33	02	07	17.5	3.3	39	4.8	1022.8	7	017	02	2	2	0	0	9	0	1	81075	85080		5	COTRA	
6	80	7	35	06	11	16.8	2.6	38	4.5	1024.3	7	009	02	2	2	0	0	9	0	1	81075	87080		6	COTRA	
7	73	5	34	03	10	14.6	1.4	41	4.1	1027.8	7	005	01	2	2	4	4	6	0	1	81845	84650		7	2Ci78 Cu hum	
8	68	7	26	06	13	16.9	3.2	40	4.7	1024.1	7	020	03	1	1	3	1	7	0	1	83850	86080		8	COTRA Cu hum	
9	72	6	31	05	10	15.9	4.8	48	5.3	1019.8	7	007	02	2	2	6	4	6	0	0	82845	85650		9	Cu hum	
10	84	5	24	06	13	18.5	5.6	43	5.6	1023.0	7	009	01	2	2	4	4	7	0	1	82850	83656		10	3Ci80 COTRA Cu hum	
11	68	6	03	05	09	18.0	4.2	40	5.1	1023.5	7	012	02	2	2	6	8	6	/	/	81845	86650		11	Cu hum	
12	59	6	05	06	12	17.4	7.1	50	6.2	1020.8	7	013	05	1	1	1	1	6	0	2	81840	84072	83078	12	COTRA Cu hum Sky turbid	
13	56	7	04	05	11	17.8	9.7	59	7.4	1020.2	6	009	05	1	1	7	0	9	3	/	87365			13	Ac str tr pe Sky turbid	
14	59	5	05	05	11	22.6	10.3	46	7.7	1022.4	7	008	05	2	2	0	0	9	0	1	81078	85081		14	COTRA Sky turbid	
15	73	1	01	03	08	23.9	10.0	42	7.6	1021.6	7	007	02	0	0	0	0	9	0	1	81080			15		
16	58	3	36	07	13	20.9	11.5	55	8.3	1024.3	7	008	05	1	1	3	2	6	6	0	83840			16	1Ac61 Cu con	
17	82	7	36	06	13	16.4	1.6	37	4.2	1025.0	6	009	02	2	2	0	0	9	0	1	87075			17	COTRA Halo 22° part+u/a cont	
18	78	2	36	05	14	15.0	1.3	39	4.1	1025.1	8	016	01	1	1	2	4	7	0	0	81850	82Sc50		18		
19	81	3	30	04	13	19.3	-0.1	27	3.7	1018.7	7	015	02	0	0	0	0	9	0	1	83080			19	COTRA	
20	70	3	11	07	13	15.6	6.2	54	5.8	1021.9	8	010	02	1	1	3	2	6	0	0	83834			20	Cu med Sky quite turbid	
21	64	7	21	06	15	18.0	2.6	36	4.5	1020.4	7	010	03	2	2	1	1	7	0	6	81850	83275	86080	21	COTRA Cu hum	
22	65	7	21	06	13	19.3	7.2	45	6.2	1019.1	7	006	14	2	2	7	0	8	7	/	82357	85362	87465	22	Ac du vir	
23	59	8	22	08	14	16.0	12.2	78	8.8	1019.3	8	008	05	6	2	8	5	4	/	/	85615	86625	88650	23		
24	65	6	21	07	14	19.1	11.0	59	8.1	1015.9	8	010	01	2	2	3	8	5	3	1	81830	84358		24	2Sc56 4Ci75 COTRA Cu hum	
25	80	7	22	07	14	17.2	6.9	51	6.2	1014.6	2	008	02	2	2	1	1	6	3	8	81838	87275		25	2Ac60 Cu hum Absent cld&vv est	
26	68	8	01	07	18	13.4	10.1	80	7.6	1021.1	4	000	62	6	1	1	5	7	7	/	81650	84358	88462	26		
27	60	5	03	08	15	16.0	10.5	70	7.8	1023.5	8	010	05	1	1	2	5	0	1	1	82622	85075		27	Sky turbid	
28	81	2	04	09	18	22.7	5.9	34	5.7	1021.7	8	017	02	0	0	2	0	9	8	1	82359			28	1Ci80 COTRA Ac cas	
29	59	1	03	08	16	19.1	11.5	61	8.4	1018.0	7	021	05	0	0	1	0	9	3	0	81360			29	Sky turbid	
30	82	2	06	10	24	19.8	2.1	31	4.4	1013.6	6	006	02	0	0	1	0	9	8	1	81358			30	2Ci80 COTRA Ac cas	

Mean vis = 21.5 km

Mean cloud = 4.8 60%

Mean wind speed = 6.8 kn

Mean gust = 14 kn

Mean TT = 17.4 C

Mean TdTd = 5.5 C

Mean RH = 47.1 %

Mean r = 5.8 g/kg

Mean PPP = 1021.8 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.

