WOKINGHAM

METEOROLOGICAL

DATA

Berkshire.

Wokingham Climatological Station, Emmbrook,

Lat/Long 51°25'N 00°51'W NGR (SU)798701 Altitude 46m ASL.

Monthly Means and To	tals			MAY 2012			
Temperature (°C / °F)			Anomaly	Rank in the past	131 years		
Mean maximum	17.8	64.0	+0.3	43 rd highest			
Mean minimum	8.3	46.9	+0.8	10 th highest			
Daily mean	13.1	55.6	+0.6	21 st highest			
Highest maximum	27.9	82.2	on 27 th	Lowest maximum	9.7	49.5	on 4 th
Highest minimum	14.4	57.9	on 25 th	Lowest minimum	0.1	32.2	on 7 th
Mean grass minimum	5.6	42.1	+1.3	Lowest grass minim	um -3.9	25.0	on 7 th
Mean earth @30 cm	13.4	56.1	-0.1	Earth @100 cm	11.6	52.9	
Frost duration (hrs)	0.0			Rain duration (hrs)	33.6		
Rainfall total (mm / in)	24.8	0.98	49 %	22 nd lowest			
Highest daily fall	6.1	0.24	on 9 th				
Number of: Dry days (<0.2mm	n) 20 Wet	days (>0.	9mm) 7	days ≥5mm	1		
Sunshine total (hrs) 184.7	Daily mean	5.96	97 %	Sunniest day	15.2	on 26	th
N° days with: Air frost 0	Ground frost	5	Snow falling	0 Snow l	ying 0		
Thunder 0	Hail ≥5mm	1	Small hail/ice	0 Fog @	09 0	Nil sun	4
Pressure MSL : Mean @09 Gl	MT, mbar 1016	.9 +1.0) Highest	1038.8 on 12 th	Lowest	1002.5	on 18 th
Relative humidity : Mean (%)	74.7 Lowest	27	on 26 th Wa	ater vapour (g/kg), m	ean at 09 and 1	15 GMT	7.0, 6.9
Overall mean wind speed (mpl	n) 6.4 W	indiest dag	у 12.0 с	on 10 th Max	gust 35	on 25	th
Wind direction (days) N	9 NE 5	E 3	SE 1	s 2 sw	5 W	4 NV	W 2
Least windy day (mph) 4.	0 on 23^{rd}	Calm	n; less than 0.5	mph (minutes)	475		
Anomaly = departure from 1981 to 20	10 average (degrees C, pe	rcent and mb	bar).				
Notes: Mi	ld and Dry	with	Below No	ormal Sunshine			
The first 21 days saw mainly	dull and often cool	weather,	with occasiona	I rain up to the 15^{m} ,	tollowed by	a complete	change to ver

ry sunny, warm and dry conditions for the final 10 days. Temperature: The mean is 0.6° above the current climatological average, but is 1.3° above the long-term median. The mean min ranks 10th highest since 1882, but has been exceeded 6 times since 1998. The highest max is highest since 2005 and is 2.5° above the median. The lowest max is 1.3° below its median. The highest min is 1.9° above the median and is 7th highest in 100 years. The lowest min is 0.4° below the median. The highest daily mean, 20.4° on the 24th, is highest since 1989. The lowest grass min is close to normal, as is the number of days with ground frost. This has been a May free of air frost for the first time since 2009. Rainfall: After the near record rainfall in April, May turned out much drier with only about half the average, in fact the average has not been exceeded in May since 2008. Most of this month's rain fall between the 7th and 15th, and the latter half of the month was virtually dry throughout, with a dry spell unbroken on the 31st after 13 days. The rain that fell was generally quite light, with heavy rain on the 1st and 10th only, and the highest rainfall rate was 19 mm/hr on the 1st. As a result rainfall duration was only 4 hours below normal. 6 mm diameter hail fell on the 15th, but thunderstorms evaded the town despite occurring over southern England on several days. Sunshine: A rather variable showing this month, the dullest since 2007, with accumulated sunshine having a deficit of nearly 50 hours by the 10^{th} , increasing to 60 hours by the 20^{th} , all this being compensated in an outstanding 9 days to the 30^{th} which averaged 13.0 hours per day, and 4 of which had over 90% of the maximum. Overall there were 14 days with <3 hours, 13 with =>6 hours, 12 with =>9 hours, 7 with =>12 hours, and 1 with =>15 hours. Commentary: From the 1st to the 21st: Temperatures were generally below normal by day, with exceptions only on the 1st, 8th and 10th. Anomalies for daily max ranged from -6.2° on the 4th and 6th to +1.6° on the 8th. Daily min were more variable, with anomalies between -6.2° on the 7th and +4.7° on the 10th. All the month's rain fell in this period, with only 5 dry days up to the 15th, but 5 more to the 21st. Sunshine was very poor to the 10th and again from the 17th to the 20th, with the two best days having <27% of the max, and 11 having <10%. Outside those, the 12th and 13th were the best days with around 75% of the max. Light or moderate winds temporarily increased fresh on the 10th, and were E'ly on 1st, backing N'ly on 2nd, becoming S'ly on 7th and generally W'ly after the 11th, backing SE'ly on 17th and becoming N'ly on 19th. From the 22nd to the 31st : Most of this period was dominated by a heat wave, with anomalies for daily max between +3.8° on the 29th and +9.9 on the 27th, though down to -0.6° on the 31st. For daily min, anomalies ranged from +0.9° on the 28th to +5.5° on the 25th. Only a trace of rain was recorded, on each of the final 3 days. Sunshine was outstanding except for the 31^{st} , with a total of 117.2 hours over 9 days. Light or moderate winds were N'ly on 22^{nd} , veering E'ly on 25^{th} , becoming mainly W'ly from the 28th.

Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

Fre	om the 1^{st}	to the 10 th	1	F	rom the 1	1 th to the 20) th	From the 21 st to the 31 st					
-2.4°	+1.1°	116%	21%	-2.6°	-1.4°	37%	80%	+5.7°	+3.1°	0%	182%		

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



Month: MAY 2012

Date	Max	Min	Rain	Grass	30cm	100cm	Sun	Frost	pp09	Af St	f	Th	lc	Vec n	nean		Max g	gust	High	ı hr		Rain
	С	С	mm	Min	С	С	hrs	hrs	mbar	Gf	SI	н	a Fg	ddd	ff	sp	ddd	gg HHI	nh ddd	ff	HH	hrs
1	17.2	10.9	0.1	8.0	11.0	10.1	3.8	0.0	1014.9	000	0	0 0	0 0	102	0.9	4.8	57	20 003	9 48	8 8	00	0.1
2	13.6	7.4	2.2	3.0	11.5	10.2	0.0	0.0	1021.9	000	0	0 0	0 0	2	5.4	5.6	17	18 183	4 9	8	18	2.6
3	9.8	7.8	0.2	8.1	11.5	10.4	0.0	0.0	1013.1	000	0	0 0	0 0	21	4.4	4.4	27	13 062	9 21	7	09	0.4
4	9.7	6.7	0.6	6.8	11.2	10.5	0.1	0.0	1006.7	000	0	0 0	00	22	4.8	4.9	24	17 234	4 25	i 9	23	2.2
5	11.0	5.0	0.1	3.7	11.0	10.6	1.4	0.0	1010.4	000	0	0 0	0 0	34	7.3	7.4	27	21 073	8 26	5 11	00	0.1
6	10.4	4.7	tr	4.1	11.1	10.5	1.4	0.0	1013.7	000	0	0 0	0 0	48	3.5	3.9	34	12 093	1 50	6	09	0.0
7	15.6	0.1	1.8	-3.9	10.8	10.5	3.0	0.0	1014.8	010	0	0 0	0 0	170	4.5	5.4	205	24 170	3 204	11	16	2.8
8	18.2	8.9	3.9	8.4	11.0	10.5	2.9	0.0	1006.9	000	0	0 0	0 0	207	5.5	5.6	205	19 154	2 205	i 9	15	6.1
9	16.5	8.8	6.1	9.1	11.8	10.5	0.0	0.0	1007.8	000	0	0 0	0 0	200	4.1	5.7	204	24 151	7 192	11	23	7.8
10	17.0	11.2	3.9	13.2	12.2	10.6	0.1	0.0	1008.3	000	0	0 0	0 0	213	10.3	10.4	208	30 110	1 209	13	01	1.7
11	15.5	9.6	0.0	6.6	12.6	10.8	9.6	0.0	1020.1	000	0	0 0	0 0	275	7.0	8.6	238	25 065	1 295	5 11	15	0.0
12	14.8	3.9	0.0	-1.6	12.5	11.0	11.7	0.0	1038.2	010	0	0 0	0 0	343	4.3	4.9	8	20 085	9 (9	08	0.0
13	16.9	1.4	0.5	-2.5	12.5	11.1	11.5	0.0	1033.0	010	0	0 0	0 0	230	5.8	6.0	229	22 161	0 233	10	15	1.8
14	13.3	5.5	3.8	2.6	12.7	11.2	2.2	0.0	1017.6	000	0	0 0	0 0	228	7.4	7.6	198	20 122	1 214	10	17	5.5
15	12.5	5.1	1.3	-0.1	12.3	11.3	4.3	0.0	1014.1	010	0	01	0 0	304	6.1	7.0	330	29 133	8 300	12	08	1.0
16	14.9	1.7	0.0	-2.7	11.9	11.4	7.9	0.0	1026.9	010	0	0 0	0 0	266	3.8	4.5	258	16 134	6 269	7	13	0.0
17	15.4	4.9	tr	0.7	12.1	11.4	0.7	0.0	1019.3	000	0	0 0	0 0	128	3.6	4.4	105	18 202	1 151	7	09	0.0
18	16.3	6.8	0.3	3.8	12.4	11.4	1.1	0.0	1003.2	000	0	0 0	0 0	101	2.4	4.8	39	15 084	8 63	6	10	1.5
19	16.9	10.6	0.0	10.0	12.6	11.4	0.4	0.0	1009.8	000	0	0 0	0 0	349	1.2	5.3	24	17 185	1 19	9	18	0.0
20	11.6	8.3	0.0	8.3	13.1	11.5	0.0	0.0	1011.4	000	0	0 0	0 0	22	7.6	7.7	26	19 162	9 23	10	16	0.0
21	17.6	8.8	0.0	8.8	12.8	11.6	5.2	0.0	1010.0	000	0	0 0	0 0	358	6.0	6.3	356	16 135	1 357	' 8	13	0.0
22	24.9	10.4	0.0	5.7	13.3	11.7	14.6	0.0	1014.4	000	0	0 0	0 0	338	5.1	5.3	325	17 105	3 336	8	12	0.0
23	26.2	12.5	0.0	7.7	14.5	11.8	14.5	0.0	1023.0	000	0	0 0	0 0	330	3.1	3.5	286	12 135	0 357	5	08	0.0
24	27.1	13.7	0.0	10.0	15.7	12.1	13.4	0.0	1026.7	000	0	0 0	0 0	23	3.3	3.8	83	14 144	9 30	6	17	0.0
25	26.1	14.4	0.0	10.1	16.6	12.4	14.6	0.0	1023.5	000	0	0 0	0 0	61	6.5	6.7	65	30 175	4 68	11	12	0.0
26	26.1	12.7	0.0	8.0	17.0	12.8	15.2	0.0	1020.2	000	0	0 0	0 0	67	6.2	6.4	65	25 122	1 68	11	10	0.0
27	27.9	9.5	0.0	4.9	17.1	13.2	13.6	0.0	1018.9	000	0	0 0	0 0	72	3.1	3.9	68	21 144	9 86	57	14	0.0
28	25.2	9.4	0.0	5.6	17.3	13.5	12.0	0.0	1018.5	000	0	0 0	0 0	255	3.2	3.9	237	15 173	7 238	8	17	0.0
29	22.5	12.0	tr	8.1	17.4	13.8	9.1	0.0	1017.9	000	0	0 0	0 0	358	2.1	3.9	326	13 154	5 359	6	07	0.0
30	23.9	12.4	tr	10.5	17.7	14.1	10.2	0.0	1018.2	000	0	0 0	0 0	219	4.8	5.0	216	17 155	7 211	9	16	0.0
31	18.7	11.9	tr	10.1	17.8	14.3	0.2	0.0	1019.1	000	0	0 0	0 0	257	6.2	6.3	261	25 163	7 272	11	16	0.0
Total			24.8				184.7	0.0													:	33.6
Mean	17.8	8.3		5.6	13.4	11.6	5.96	0.0	1016.9					325	1.0	5.6						
Anom	+0.3	+0.8	49%	+1.3	-0.1	-0.2	97%		+1.0													
Daily me	ean	13.1		Pressu	re, abs	highes	st =	1038.8	on 12													
Anom		+0.6	i	Pressu	re, abs	lowest	= '	1002.5	on 18													
Number	of days	with:																				
Air frost	= 0		Ground	d frost =	= 5		Nil sun	= 4														
Snow fal	ling = 0)	Snow ly	ying = ()		Thunde	er = 0														
Hail=>5r	nm = 1		Hail<5r	nm or i	ce = 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. SI = 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 1981-2010 climatological average.

All temperatures in degrees Celsius.

Weather observations. Emmbrook, Wokingham, Berkshire. Observations at 0900 GMT for MAY 2012 Date VV N dd ff gg TT TdTd RH PPP a ppp wwW1W2 Nh Cl hCrCtNChshs NChshs NChshs Date Remarks r 1 50 8 06 04 10 11.7 11.2 97 8.3 1014.9 3 015 58 6 5 8 7 2 / / 83704 87706 88708 1 2 59 8 01 06 12 9.8 7.6 86 6.4 1021.9 5 000 05 2 2 8 6 3 / / 88708 2 1013.1 7 005 51 6 5 8 7 2 / / 83704 87706 88708 3 35 8 02 08 12 7.9 7.0 94 6.2 3 67 8 01 06 10 7.9 5.5 84 5.6 1006.7 8 004 02 5 2 8 8 4 / / 85812 86618 88630 4 Cu hum 4 1010.4 2 010 15 6 2 6 8 4 2 / 81818 85656 87458 5 2Sc45 Cu fra/hum jpS 5 80 7 03 09 17 6.3 1.2 70 4.2 6 84 8 06 04 11 7.8 2.3 68 4.4 1013.7 3 008 02 2 2 8 8 5 / / 81820 83650 88656 6 Cu fra 62 8 13 06 12 9.0 5.6 79 5.6 1014.8 7 011 60 6 2 7 8 4 2 / 81815 83635 86645 7 8As58 Cu fra 7 8 72 8 23 07 14 13.1 9.6 79 7.6 1006.9 5 003 03 2 2 8 8 4 / / 83815 85635 88650 8 Cu med 11 01 05 11.2 10.7 96 1007.8 2008 20 5 2 8 7 2 / / 84704 9 35 8 8.0 88705 9 10 7 21 11 20 16.3 13.8 85 1008.3 1 015 01 5 2 7 5 4 / 1 82710 87613 82 9.8 10 1020.1 2 025 02 1 1 6 8 5 0 0 85825 11 Cu hum/med 11 86 6 27 11 24 12.4 5.8 64 5.7 83640 12 86 1 01 10 20 10.8 0.9 51 3.9 1038.2 2 009 03 0 0 1 1 6 0 0 81835 12 Cu fra/hum 1033.0 7 017 03 0 0 1 1 6 0 1 13 1Ci75 COTRA Cu hum Absent cld&vis est 13 82 3 24 05 12 14.0 3.6 49 4.8 81835 83080 14 61 8 23 09 17 8.5 6.4 87 5.9 1017.6 8 010 61 6 2 5 5 4 2 / 81715 85635 88550 14 15 7 29 09 22 7.8 2.7 1014.1 201203 6 2 7 8 5 3 / 84820 15 /Ac65 Cu med 86 70 4.6 85630 16 1Ci75 Cu med 16 83 2 31 05 12 10.6 2.2 56 4.4 1026.9 0 006 03 0 0 2 2 6 0 1 82830 17 81 8 14 07 15 11.7 2.7 54 4.6 1019.3 701101 2 2 1 1 6 7 / 81835 83362 88465 17 1Ac58 Cu fra 1003.2 7 004 05 1 1 18 60 8 04 05 15 13.2 8.2 72 6.8 1157/ 81820 86358 88465 18 Cu fra 19 58 7 22 04 11 13.3 9.6 78 7.4 1009.8 1 012 05 2 2 7 8 4 / / 81712 83815 87645 19 Cu fra/hum Absent 19th to 24th vv&cld est 20 65 1011.4 8 002 02 2 2 8 6 4 / / 88710 8 03 08 14 9.8 7.0 83 6.2 20 21 62 8 36 08 13 10.4 7.8 84 6.6 1010.0 1 010 02 2 2 8 6 4 / / 88710 21 22 60 1 34 06 13 17.5 11.1 66 8.2 1014.4 1 011 05 0 0 0 0 9 0 1 81075 22 23 60 0 36 04 09 19.0 13.2 69 9.3 1023.0 0 005 05 0 0 0 0 9 0 0 23 24 58 03 05 10 19.9 15.0 73 10.4 1026.7 0 002 05 0 0 1 1 5 0 0 81820 24 Cu fra 1 25 1023.5 8 005 02 0 0 0 0 9 0 2 81075 61 1 04 07 15 21.4 12.8 58 25 9.0 26 68 0 07 08 20 22.2 12.2 53 9.0 1020.2 8 009 02 0 0 0 0 9 0 0 26 27 64 1 05 05 09 20.9 13.1 61 9.5 1018.9 8 005 02 0 0 0 0 9 0 1 81075 27 COTRA 28 60 6 27 03 07 19.1 12.1 64 8.9 1018.5 2 001 05 2 2 1 5 7 8 / 81656 85358 28 2Ac60 Ac cas 29 65 5 36 04 11 18.2 12.2 67 8.9 1017.9 6 003 01 1 1 5 8 5 0 0 81825 85645 29 Cu hum 30 1Ac63 COTRA Cu hum Ac cas 30 3 25 04 09 20.2 11.4 57 8.4 1018.2 0 002 03 1 1 1 1 6 8 1 81835 83080 68 31 65 7 26 06 13 16.3 11.8 74 8.5 1019.1 7 003 01 6 2 1 1 4 7 / 81818 83359 86362 31 2Ac57 7As65 Cu hum Mean vis = 21.8 km Mean cloud = 5.5 68% Mean wind speed = 6.3 kn Mean gust = 13 kn Mean TT = 13.5 °C Mean TdTd = 8.3 °C Mean RH = 71.9 % Mean r = 7.0 g/kg Mean PPP = 1016.9 mbar See appendix 2 below for full code details 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 CI = 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 MAY 2012 Date VV N dd ff gg TT TdTd RH PPP a ppp wwW1W2 NhCl hCrChNChshs NChshs NChshs Date Remarks r 1 82 7 24 05 09 15.4 9.9 70 7.5 1017.4 2 012 02 2 2 7 8 5 / / 83820 86645 1 Cu med 2 59 8 36 06 12 12.1 8.0 76 6.6 1018.9 8 015 05 2 2 8 5 4 / / 85615 88618 2 1011.0 7 013 50 6 5 8 8 3 / / 81708 88620 3 2Cu12 Cu hum 3 65 8 03 05 08 8.8 6.7 87 6.1 67 8 06 05 11 9.2 79 5.7 1006.2 7 005 02 6 2 8 8 4 / / 82818 86625 88640 4 Cu hum 4 5.7 1010.2 8 004 01 6 2 2 8 6 7 / 82835 83460 87362 5 2Sc56 Cu hum 5 84 7 04 06 15 10.1 1.8 56 4.4 6 84 7 05 04 09 9.0 0.5 55 3.9 1014.9 1 006 21 6 2 6 8 6 7 / 81835 86650 6 /Ac58 Cu hum 75 6 19 09 17 14.5 9.3 71 7.3 1011.4 7 018 03 6 2 6 8 4 / / 81715 84820 7 3Sc40 Cu med Absent vv&cld est 7 8 2Sc56 2Ci75 Cu med 8 75 6 23 08 15 16.6 8.8 60 7.0 1005.8 8 006 01 2 2 5 8 6 0 1 83830 8 21 09 20 14.4 13.4 94 1009.0 1 008 58 6 5 8 7 3 / / 83706 87708 88712 9 30 9.5 9 10 75 8 21 10 23 15.1 13.9 92 1009.6 8 004 61 6 2 7 5 4 2 / 81710 87613 88556 10 R in past hr 9.8 11 1Ac68 1Ci75 COTRA Cu hum/med 1025.4 2 023 02 1 1 2 2 6 3 1 11 86 2 30 10 21 15.2 2.8 43 4.5 82848 12 86 4 35 07 15 13.3 1.0 43 4.0 1038.3 8 003 02 1 1 41700 84850 12 Cu hum Absent vv&cld est 1027.6 7 027 03 1 1 5 4 7 0 2 13 2Ci75 Cu hum 13 83 6 25 10 20 15.3 3.0 44 4.8 81850 85650 14 82 8 23 09 19 11.7 7.9 77 6.6 1014.3 7 019 02 6 2 6 8 4 2 / 83818 84635 88462 14 Cu hum/med 15 62 6 34 08 28 7.8 3.4 73 1018.6 3 029 80 8 2 6 9 5 6 3 82925 81835 84550 15 /Ac62 /Ci70 Past hail vv60k ex pptn 4.8 1025.4 8 013 02 1 1 5 4 7 0 1 16 3Ci78 COTRA Cu med 16 81 6 28 06 12 13.8 1.4 43 4.4 81850 85656 17 75 7 12 04 11 14.9 2.6 43 4.4 1013.9 7 031 01 2 2 1 8 7 7 2 81850 83358 86362 17 1Sc56 Cu hum 1003.3 200402 2 2 8 5 5 / / 18 Absent 18th to 24th vv&cld est 18 70 8 11 05 11 14.7 9.2 69 7.3 84620 85635 88645 19 70 6 01 04 09 15.8 7.9 59 1010.0 8 001 01 2 2 6 8 6 / / 82832 86650 19 Cu hum 6.6 70 8 01 07 16 10.8 7.3 79 1010.8 5 003 02 2 2 8 5 4 / / 88615 20 6.4 20 1009.9 1 005 01 2 2 2 5 5 0 2 82622 85075 21 65 5 01 09 15 16.2 10.3 68 7.8 21 22 72 $0 \quad 35 \ 08 \ 15 \ 24.5 \ 12.3 \ 47$ 8.9 1015.7 2 007 02 0 0 0 0 9 0 0 22 23 Cu hum 23 68 1 31 04 12 25.9 15.4 52 10.7 1022.5 5 002 02 0 0 1 1 6 0 0 81840 24 65 06 06 14 26.4 15.7 52 10.9 1024.8 7 010 02 0 0 1 1 6 0 0 81840 24 Cu hum 1 25 1 08 11 27 25.2 9.3 37 1021.7 6 006 02 0 0 0 0 9 0 1 81080 25 COTRA 7.1 80 26 80 0 07 08 19 25.2 6.3 30 6.1 1018.4 7 007 02 0 0 0 0 9 0 0 26 27 77 2 10 07 22 27.2 9.7 33 7.4 1016.8 6 008 02 0 0 11701 81856 27 2Ci80 COTRA Cu hum 28 1Ac60 1Ci72 COTRA Cb top E 28 82 3 28 06 14 24.6 9.0 37 7.0 1017.3 7 008 03 0 0 1 1 7 4 3 81856 83080 29 62 3 36 05 11 21.6 12.8 57 9.4 1016.6 6 009 02 1 1 3 8 6 0 1 82835 29 2Sc50 1Ci80 COTRA Cu med 30 6 23 07 14 22.7 11.7 50 8.4 1017.6 6 005 02 2 2 2 2 6 8 / 82840 84358 30 2Ac65 Cu con 80 31 72 8 26 07 16 17.6 10.7 64 8.0 1018.6 7 002 02 2 2 7 8 6 7 / 81830 86650 88360 31 2Sc40 Cu hum Mean vis = 27.6 km Mean cloud = 5.3 66% Mean wind speed = 6.9 kn Mean gust = 15 kn Mean TT = 16.6 °C Mean TdTd = 8.0 °C Mean RH = 59.4 % Mean r = 6.9 g/kgMean PPP = 1016.2 mbar See appendix 2 below for full code details 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 CI = 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	Hour0	1-May (02-May	03-May	04-May	05-May	06-May	07-May	08-May	09-May	10-May	11-May	12-May	13-May	14-May	15-May	16-May
Sunshine	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hourly	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
analysis	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.41	0.31	0.00	0.24	0.51
	5	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.99	1.00	1.00	0.20	0.00	1.00
	6	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.18	0.00	0.00	0.88	1.00	1.00	0.00	0.00	1.00
	/	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.03	1.00
	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.28	1.00	1.00	0.00	0.21	0.95
	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	1.00	0.02	0.00	0.00	0.02
	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.07	0.54	0.00	0.00	0.10
	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.57	0.00	0.00	0.22	0.43
	13	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.38	0.60	0.00	0.00	0.00
	14	0.00	0.00	0.00	0.01	0.00	0.00	0.11	0.10	0.00	0.00	0.68	0.53	0.50	0.00	0.28	0.28
	15	0.54	0.00	0.00	0.00	0.15	0.00	0.47	0.57	0.00	0.00	0.87	0.25	0.54	0.00	0.78	0.56
	16	0.86	0.00	0.00	0.00	0.85	0.07	0.43	1.00	0.00	0.00	0.46	0.47	0.96	0.11	0.27	0.22
	17	1.00	0.00	0.00	0.00	0.38	0.35	0.18	0.89	0.00	0.00	0.85	0.80	0.96	0.85	0.07	0.42
	18	0.88	0.00	0.00	0.00	0.06	0.85	0.00	0.05	0.00	0.00	1.00	1.00	0.98	1.00	0.81	0.19
	19	0.20	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.57	0.29	0.31	0.02	0.48	0.00
	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Tot	3.81	0.00	0.00	0.01	1.44	1.40	3.01	2.93	0.00	0.01	9.60	11.72	11.53	2.19	4.27	7.92
					~ • • •	~ •		~	~	05.14	~ • • •	0 7 14	~	~	~~ • •		
	Hour1	/-May '	18-May	19-May	20-May	21-May	22-May	23-May	24-May	25-May	26-May	27-May	28-May	29-May	30-May	31-May	Mean
	0	()()()	()()()	0.00	()()()	() ()()	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	() ()()	0.00	/ / / // /
	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1 2 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1 2 3	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.13	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.51	0.00 0.00 0.00 0.52	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.15
	1 2 3 4 5	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.13 0.77	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.24	0.00 0.00 0.28 1.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.51	0.00 0.00 0.00 0.52	0.00 0.00 0.00 0.50	0.00 0.00 0.00 0.49	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.15 0.40
	1 2 3 4 5	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.13 0.77	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.24 1.00	0.00 0.00 0.28 1.00	0.00 0.00 0.00 0.00 0.29	0.00 0.00 0.00 0.00 0.00 0.91	0.00 0.00 0.51 1.00	0.00 0.00 0.00 0.52 1.00	0.00 0.00 0.50 0.72	0.00 0.00 0.00 0.49 0.94	0.00 0.00 0.00 0.00 0.00 0.01	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.15 0.40
	1 2 3 4 5 6 7	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.13 0.77 0.23	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.24 1.00 1.00	0.00 0.00 0.28 1.00 1.00	0.00 0.00 0.00 0.00 0.29 0.99	0.00 0.00 0.00 0.00 0.91 1.00	0.00 0.00 0.51 1.00 1.00	0.00 0.00 0.00 0.52 1.00 1.00	0.00 0.00 0.50 0.72 0.00	0.00 0.00 0.00 0.49 0.94 0.22	0.00 0.00 0.00 0.00 0.00 0.01 0.86	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.15 0.40 0.40
	1 2 3 4 5 6 7 8	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00	0.00 0.00 0.28 1.00 1.00 1.00	0.00 0.00 0.00 0.00 0.29 0.99 0.98 1.00	0.00 0.00 0.00 0.00 0.91 1.00 1.00	0.00 0.00 0.51 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 0.99	0.00 0.00 0.50 0.72 0.00 0.06 0.75	0.00 0.00 0.49 0.94 0.22 0.98 0.42	0.00 0.00 0.00 0.00 0.01 0.86 1.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.40 0.38
	1 2 3 4 5 6 7 8 9	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00	0.00 0.00 0.28 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.29 0.99 0.98 1.00	0.00 0.00 0.00 0.91 1.00 1.00 1.00	0.00 0.00 0.51 1.00 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.50 0.72 0.00 0.06 0.75 0.63	0.00 0.00 0.00 0.94 0.94 0.22 0.98 0.42 0.85	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.40 0.38 0.37
	1 2 3 4 5 6 7 8 9	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00	0.00 0.00 0.00 0.91 1.00 1.00 1.00 0.99	0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 0.99 0.99 0.99	0.00 0.00 0.50 0.72 0.00 0.06 0.75 0.63 0.64	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 0.93	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.40 0.38 0.37 0.33
	1 2 3 4 5 6 7 8 9 10 11	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00	0.00 0.00 0.00 0.91 1.00 1.00 1.00 0.99 0.99	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.51\\ 1.00\\$	0.00 0.00 0.52 1.00 1.00 0.99 0.99 0.99 0.98	0.00 0.00 0.50 0.72 0.00 0.06 0.75 0.63 0.64 0.99	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88	0.00 0.00 0.00 0.01 0.86 1.00 1.00 0.93 0.58	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.40 0.38 0.37 0.33 0.35
	1 2 3 4 5 6 7 8 9 10 11 12	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 0.99	0.00 0.00 0.00 0.91 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 1.00 0.99 0.99 0.99 0.98 0.72	0.00 0.00 0.50 0.72 0.00 0.06 0.75 0.63 0.64 0.99 0.87	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.35 0.33
	1 2 3 4 5 6 7 8 9 10 11 12 13	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.00 0.91 1.00 1.00 1.00	0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 0.99 0.99 0.99 0.98 0.72 0.90	0.00 0.00 0.50 0.72 0.00 0.06 0.75 0.63 0.64 0.99 0.87 0.94	0.00 0.00 0.49 0.94 0.92 0.98 0.42 0.88 0.42 0.89 0.88 0.95 0.53	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.32
	1 2 3 4 5 6 7 8 9 10 11 12 13 14	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.00 1.00 1.00 1.00 1.00	0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 0.99 0.99 0.99 0.99 0.98 0.72 0.90 0.92	0.00 0.00 0.50 0.72 0.00 0.75 0.63 0.64 0.99 0.87 0.94 0.98	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95 0.53 0.82	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.36	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.32 0.32 0.37
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 1.00 0.99 0.99 0.99	0.00 0.00 0.00 0.00 1.00 1.00 1.00 1.00	0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 0.99 0.99 0.99 0.99 0.98 0.72 0.90 0.92 0.92	0.00 0.00 0.50 0.72 0.00 0.75 0.63 0.64 0.99 0.87 0.94 0.98 0.99	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95 0.53 0.82 0.67	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.36 0.79	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.32 0.33 0.32 0.37 0.47
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 0.99 0.99 0.99 0.99	0.00 0.00 0.00 0.91 1.00 1.00 1.00 1.00	0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 0.99 0.99 0.99 0.99 0.98 0.72 0.90 0.92 0.92 0.44	0.00 0.00 0.50 0.72 0.00 0.75 0.63 0.64 0.99 0.87 0.94 0.94 0.99 0.99	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95 0.53 0.82 0.67 0.39	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.36 0.79 1.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.32 0.37 0.47 0.48
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99	0.00 0.00 0.00 0.91 1.00 1.00 1.00 1.00	0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.52 1.00 1.00 0.99 0.99 0.99 0.99 0.98 0.72 0.90 0.92 0.92 0.44 0.68 0.85	0.00 0.00 0.50 0.72 0.00 0.06 0.75 0.63 0.64 0.99 0.87 0.94 0.94 0.98 0.99 0.99	0.00 0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95 0.53 0.82 0.67 0.39 0.00	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.36 0.79 1.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.32 0.37 0.47 0.48 0.50
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99	0.00 0.00 0.00 0.91 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00 0.99 0.90	0.00 0.00 0.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.50 0.72 0.00 0.75 0.63 0.64 0.99 0.87 0.98 0.99 0.99 1.00 1.00	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95 0.53 0.82 0.67 0.39 0.00 0.04	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.36 0.79 1.00 1.00 0.99	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.32 0.37 0.47 0.48 0.50 0.50
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.13 0.77 0.23 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.000 0.00 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99	0.00 0.00 0.00 0.91 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.51 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.52 1.00 1.00 1.00 0.99 0.99 0.99 0.99 0.99	0.00 0.00 0.50 0.72 0.00 0.66 0.75 0.63 0.64 0.99 0.87 0.94 0.99 0.99 0.99 1.00 1.00 0.84	0.00 0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95 0.53 0.82 0.67 0.39 0.00 0.04 0.00	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.36 0.79 1.00 1.00 0.99 0.38	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.32 0.37 0.47 0.48 0.50 0.20
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	0.00 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000	0.00 0.00 0.00 0.13 0.77 0.23 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.000000 0.00000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.02 0.37 0.94 1.00 0.99 0.60 0.00	0.00 0.00 0.24 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.00 0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99	0.00 0.00 0.00 0.91 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.51 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.52 1.00 1.00 1.00 0.99 0.99 0.99 0.99 0.99	0.00 0.00 0.50 0.72 0.00 0.66 0.75 0.63 0.64 0.99 0.87 0.94 0.99 0.99 0.99 1.00 1.00 0.84 0.00	0.00 0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95 0.53 0.82 0.62 0.62 0.39 0.00 0.04 0.00	0.00 0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.369 1.00 1.00 0.99 0.38 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.35 0.33 0.32 0.37 0.47 0.48 0.50 0.50 0.20 0.00
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	0.00 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.000000 0.00000000	0.00 0.00 0.00 0.13 0.77 0.23 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.000000 0.00000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.09 0.22 0.37 0.94 1.00 1.00 0.99 0.60 0.00	0.00 0.00 0.24 1.00 0.45 0.00 0.00	0.00 0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.99 0.98 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99	0.00 0.00 0.00 0.91 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99 0.99 1.00 1.00 1.00 0.09 0.90 0.00 0.00	0.00 0.00 0.00 0.52 1.00 1.00 1.00 0.99 0.99 0.99 0.99 0.99	0.00 0.00 0.50 0.72 0.00 0.66 0.75 0.63 0.64 0.99 0.87 0.94 0.98 0.99 1.00 1.00 0.84 0.00	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.85 0.89 0.88 0.95 0.53 0.82 0.63 0.82 0.63 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.366 0.79 1.00 1.00 0.38 0.058 0.15 0.11 0.366 0.79 1.00 1.00 0.99 0.38 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.32 0.37 0.47 0.48 0.50 0.20 0.00 0.00
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.000 0.00 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.000000 0.00000000	0.00 0.00	0.00 0.00 0.24 1.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.36 0.00	0.00 0.00 0.00 0.00 0.29 0.99 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.91 1.00 1.00 1.00 1.00 0.99 0.99 1.00 1.00 0.99 1.00 1.00 0.99 1.00 1.00 0.99 1.00 1.00 0.99 0.99 1.00 1.00 0.99 0.99 1.00 0.99 0.99 1.00 0.99 0.99 1.00 0.99 0.99 1.00 0.99 0.99 0.99 1.00 0.99 0.99 0.00 0.99 0.00	0.00 0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99 0.99 1.00 1.00 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.00	0.00 0.00 0.00 0.52 1.00 1.00 1.00 0.99 0.90 0.92 0.44 0.685 0.99 0.600 0.000 0.000	0.00 0.00 0.50 0.72 0.00 0.66 0.75 0.63 0.64 0.99 0.87 0.94 0.98 0.99 1.00 1.00 0.84 0.00 0.00	0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.85 0.89 0.88 0.95 0.53 0.82 0.67 0.39 0.00 0.00 0.04 0.00	0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.36 0.79 1.00 1.00 0.99 0.38 0.099 0.38 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.32 0.37 0.47 0.48 0.50 0.20 0.00 0.00 0.00
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	0.00 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.000000 0.00000000	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.000 0.00 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.000000 0.00000000	0.00 0.00	0.00 0.00 0.24 1.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.28 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99	0.00 0.00 0.00 0.29 0.90 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0	0.00 0.00 0.00 0.00 0.00 1.00 0.99 1.00 1.00 1.00 0.99 1.00 1.00 1.00 0.99 1.00 1.00 0.99 1.00 1.00 0.99 1.00 1.00 0.99 1.00 1.00 0.99 0.99 1.00 1.00 0.00	0.00 0.00 0.00 0.51 1.00 1.00 1.00 1.00 1.00 1.00 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.99 0.00	0.00 0.00 0.00 0.52 1.00 1.00 1.00 0.99 0.99 0.99 0.99 0.99	0.00 0.00 0.50 0.72 0.00 0.63 0.64 0.99 0.87 0.94 0.98 0.99 1.00 1.00 0.84 0.00 0.00 0.00	0.00 0.00 0.00 0.49 0.94 0.22 0.98 0.42 0.85 0.89 0.88 0.95 0.53 0.82 0.67 0.39 0.00 0.04 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.01 0.86 1.00 1.00 1.00 0.93 0.58 0.15 0.11 0.36 0.79 1.00 1.00 0.99 0.38 0.00 0.09 0.38 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.15 0.40 0.40 0.38 0.37 0.33 0.35 0.33 0.32 0.37 0.47 0.48 0.50 0.20 0.00 0.00 0.00 0.00 0.00

May 2012	2	T mn	Тx	Time	Tn	Time	RHmn	RH x	Time	RH n	Time	Tdmn	r mn	r x	Time	rn	Time	p mn	рх	Time	pn	Time	R tot
	1	12.57	17.1	1536	7.4	2251	84.4	97.2	921	48.7	1735	9.76	7.52	9.9	1207	5.6	1741	1016.33	1021.8	2258	1011.9	29	15.4
	2	10.67	13.7	1731	8.5	2347	84.2	94.7	50	59.1	1838	8.05	6.64	7.7	6	5.4	1838	1019.53	1022.0	501	1015.6	2354	0.5
	3	8.23	9.6	1331	7.2	2351	91.3	95.1	232	86.3	1509	6.90	6.18	6.7	1058	5.7	2323	1011.88	1015.8	0	1008.3	2356	1.6
	4	7.76	9.5	1357	6.7	2359	85.8	93.5	325	75.5	1442	5.51	5.64	6.1	1250	5.3	2138	1006.96	1008.4	0	1006.1	1438	0.4
	5	7.14	10.9	1559	4.9	435	73.3	93.7	150	50.4	1658	2.47	4.55	5.6	1	3.8	1607	1010.08	1012.2	2359	1007.7	15	0.3
	6	6.48	10.1	1735	1.1	2345	71.9	94.9	2358	50.1	1227	1.53	4.23	4.8	910	3.5	1227	1014.33	1017.2	2354	1011.9	103	0.0
	7	8.66	15.9	1545	0.4	58	84.2	97.2	615	57.0	1558	5.97	5.90	7.7	1439	3.7	58	1013.22	1017.2	4	1009.0	2358	1.4
	8	13.47	18.5	1622	10.2	439	76.2	94.0	542	50.0	1623	9.08	7.21	8.4	1136	6.3	1555	1006.82	1009.2	0	1005.3	1600	1.5
	9	12.40	15.0	1159	8.7	407	93.8	97.2	821	89.3	1751	11.44	8.48	10.0	1159	6.7	255	1008.05	1009.7	1734	1006.5	2354	5.4
	10	14.90	17.1	1148	12.6	2359	89.8	94.7	21	81.8	1154	13.25	9.48	10.2	1515	7.6	2359	1009.15	1014.0	2345	1005.6	235	5.3
	11	11.93	15.8	1510	5.6	2321	62.1	86.3	305	38.4	1550	4.58	5.30	7.7	0	3.7	1855	1023.21	1034.3	2358	1013.8	1	0.0
	12	9.48	15.1	1419	3.8	2358	60.6	93.4	2357	35.5	1441	1.60	4.17	5.0	2056	3.5	1139	1037.35	1038.8	1134	1034.1	3	0.0
	13	10.27	17.0	1449	1.7	430	64.0	96.9	526	33.1	1038	2.78	4.57	6.2	719	3.5	1039	1029.88	1037.3	4	1022.1	2355	0.0
	14	8.90	13.3	1714	5.5	305	79.0	91.4	1314	47.7	1847	5.38	5.61	7.4	1403	4.1	1848	1016.14	1022.2	3	1011.8	1815	3.2
	15	7.27	12.8	1313	4.1	2352	78.6	90.2	2355	49.2	1314	3.66	4.91	5.5	1057	4.2	1334	1017.01	1024.6	2357	1012.1	415	2.3
	16	9.01	15.1	1546	1.9	137	64.9	94.5	158	35.5	1550	2.00	4.35	5.4	2231	3.5	1601	1025.36	1027.0	832	1023.6	2356	0.2
	17	10.40	15.4	1455	5.1	9	66.0	95.1	513	38.2	1512	3.66	4.94	6.2	629	3.6	1816	1016.00	1023.6	0	1007.1	2358	0.0
	18	11.97	16.1	1039	7.1	437	78.1	94.6	2359	60.0	1044	8.17	6.85	8.4	1853	5.1	437	1004.08	1007.3	0	1002.5	1106	0.3
	19	12.61	17.2	1512	8.9	2358	79.4	95.2	57	55.3	1350	8.97	7.14	8.2	51	6.0	2358	1009.75	1012.6	2203	1006.1	0	0.0
	20	9.89	11.8	1427	8.3	206	82.9	87.4	656	76.2	1429	7.12	6.28	6.9	1427	5.8	129	1010.96	1012.2	215	1009.3	1644	0.0
	21	12.66	17.9	1736	8.8	517	79.0	90.7	2140	63.2	1544	9.00	7.18	8.5	1900	6.0	210	1009.89	1012.0	2352	1008.6	413	0.0
	22	17.85	25.2	1534	10.5	319	69.4	91.8	228	42.2	1713	11.61	8.48	10.3	2126	7.0	318	1015.37	1020.3	0	1011.8	14	0.0
	23	19.48	26.3	1517	12.5	123	72.5	94.1	130	47.1	1439	14.01	9.87	12.1	2154	8.1	404	1022.81	1025.5	2359	1020.1	2	0.0
	24	20.34	26.9	1449	13.9	226	76.0	93.9	2348	50.4	1500	15.67	10.93	12.9	1350	9.0	157	1025.56	1027.0	741	1024.1	1717	0.0
	25	19.89	26.1	1237	14.5	444	64.1	96.6	351	27.4	1650	11.75	8.61	11.6	2	4.9	1650	1022.66	1025.0	6	1020.4	1757	0.0
	26	19.11	26.1	1408	12.9	424	58.6	92.5	457	26.7	1338	9.56	7.42	10.0	817	5.3	1645	1019.55	1021.7	24	1017.7	1709	0.0
	27	18.90	27.8	1437	10.0	404	60.8	91.4	427	26.9	1635	10.11	7.68	11.2	1128	5.4	1635	1018.08	1019.5	731	1016.5	1641	0.0
	28	18.13	25.5	1524	9.6	423	66.2	95.3	515	33.9	1431	10.96	8.10	10.4	1151	6.4	1433	1017.87	1018.6	835	1016.8	1553	0.0
	29	17.94	22.9	1539	12.0	334	71.8	91.5	343	52.2	1445	12.57	9.00	10.9	1218	7.8	334	1017.28	1018.3	635	1015.8	1746	0.0
	30	18.07	24.0	1520	12.3	445	70.3	97.4	519	39.9	1624	11.94	8.62	10.5	1413	6.9	1639	1017.86	1019.5	2333	1016.7	1710	0.0
	31	15.42	18.7	1133	12.0	419	76.9	89.6	422	58.7	1533	11.27	8.24	9.1	955	7.3	1533	1019.10	1019.8	2126	1017.6	1804	0.0
	Total																						37.8
	Mean	12.96	17.88		8.01		74.7	93.61		51.15		8.07	6.91	8.44		5.50		1016.52	1019.83		1013.43		
	Max	20.34	27.82		14.46		93.8	97.40		89.30		15.67	10.93	12.92		8.99		1037.35	1038.84		1034.15		
	Min	6.48	9.53		0.41		58.6	86.30		26.69		1.53	4.17	4.78		3.46		1004.08	1007.34		1002.55		

Wokingham Automatic Weather Station

AWS samples taken every 0.5 seconds

x and n refer to maximum and minimum respectively

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

Readings taken at Wokingham Climatological Station, Emmbrook, Berkshire Lat 51.425 N, Long 0.853 W, NGR (SU) 798701 Altitude 45 m ASL.

WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

	Lat 51°25'N 00	°51'W NGR (SU)79	8701 Altitude 46m ASL			
Seasonal Means a	nd Totals			SPRING 20)12	
Temperature (°C)				Rank in	the past 131 years	
Mean maximum		15.1	(+0.8)	13 th highest		
Mean minimum		4.7	(-0.3)	33 rd highest		
Daily mean		9.9	(+0.3)	21 st highest		
Rainfall total (mm)		161.1	(111 %)	40 th highest		
Sunshine total (hours)		500.3	(108 %)	-		
N ^o of:	Dry days	54 (+2)	Wet days	28 (0)		
Days with: Air frost	11 (0)	Ground frost	44 (+9) Si	now falling $1(-3)$	Snow lying	0 (0)
Thunder $3(-2)$	Hail ≥5m	m 2 (0) Sr	mall hail/ice $5(0)$	Fog @09 GMT	5 (+4) Nil sun	10(0)
Air pressure MSL : Me	ean @09 GMT	(mbar) 101	6.6 (+1.0)			

Departure from 1981 to 2010 average shown in brackets.

Notes: Milder than Average by Day, but Not by Night. Rainfall and Sunshine Above Normal.

This has been a season of strong contrasts, starting with a drought in March followed by the 2^{nd} wettest April on record and ending with a May initially cold and dull but finishing with a heatwave. **Temperature:** Despite being cooler than last spring, the mean max is 0.8° above the current 30 year average, although it is 1.7° above the long-term median. Similarly the mean min is 0.3° below the current average, but is 0.7° above the long-term median. The overall mean temperature is 1.2° below spring 2011 though it is 0.6° above that of 2010, and is 1.0° above its median. Notably, the spring long-term median is 8.9°, the 30 year average is 9.6°, and the average for the last 10 years is 10.1°. Also, in the past 25 years, only one spring, that of 1996, had a mean lower than the long-term median. This spring, April was the coldest month, mean 8.1°, 0.4° lower than March, and May the mildest, mean 13.1°. Springs with April colder than March are not that rare, there having been 9 since 1882, the last in 1990, with the most extreme example in 1938 when the difference was 2.0°. This spring the highest max was 27.9° on the 27th May, 2.5° above the median. The lowest max was 8.9° on the 13th March, 4.4° above the median and 3rd highest in 100 years. The highest min was 14.4° on the 25th May, 1.9° above the median and 7th highest in 100 years, while the lowest min of -4.1° was on the 6th April and is 0.2° above its median. The mean grass min was 1.2°, 0.4° below average, and the lowest grass min was -9.8° on the 16th April. The mean earth temperature at 30 cm depth was 10.4°, 0.2° above average, and at 1 m depth was 9.8°. After the May heatwave the 30 cm temperature reached 17.8°, the highest spring value since before 1980. Rainfall: A very wet April sandwiched between a dry March and May was enough to produce a spring total 11 % above average. Compared with the long-term, the total is only 0.3 mm less than would put it into the wet category. The wettest day was the 21st April with 19.4 mm. Overall rainfall duration was 20.8 hours above normal. However, the combined total for March and May, 48.2 hours, is just over half the 91.3 hours for April alone. The highest rainfall rate this spring was 70 mm/hr on the 22^{nd} April. A 9 day dry spell ended on the 2^{nd} March, and one of 8 days on the 15th March, then one of 16 days to the 2nd April, and one of 13 days was unbroken at the end of the season. Sunshine: The total is lowest since 2008 but is still well above average. The 26th May was the sunniest day with 15.2 hours. Interestingly, the daily mean sunshine for March and May were identical, with April a very poor 3rd. There were two outstandingly sunny periods, 7 days to the 30th March with a mean of 11.0 hours per day, and 9 days to the 30th May, mean 13.0 hours per day. At the other extreme, the 9 day period to the 10th May had a mean of only 1.0 hours per day. Overall there were 22 days with <3 hours, 38 with =>6 hours, 22 with =>9 hours, 11 with =>12 hours and 1 with =>15 hours. Wind: The mean speed of 6.3 mph is 0.8 mph below average. The windiest day was the 26th April, mean 12.9 mph, and the highest gust of 39 mph was also on that day. The 28th March was the least windy day, mean 2.3 mph, and there were 2453 minutes, 40.87 hours, with a mean speed of 0.5 mph or less (calm). Daily mean direction/number of days: N,15 NE,18 E,6 SE,2 S,5 SW,20 W,15 NW,11. Compared with average, winds from W, NW and N combined were 12.6% more frequent at the expense of those from SE, S and SW, 13.5 % less frequent. Humidity: The overall mean relative humidity was 75.8 %. The lowest value was 20 % on the 28th March. The mean water vapour content per kg of air was 5.9 g at 0900 GMT and 5.7 g at 1500 GMT. Pressure: The season's highest pressure was 1038.8 mbar on the 12th May, and the lowest was 975.5 mbar on the 18th April.

March: Very mild, very sunny, dry. Mean max 2nd highest in 131 years. Mean temperature 8th highest. Mean diurnal temperature range 3rd highest in 131 years. Highest max equal highest with 1990 since 1968. One of the sunniest Marches since before 1908. Mean wind speed lowest since before 1988. Most days with fog since 1969.

April: Very wet, dull, temperature well below normal. Mean temperature lowest since 1989. Mean max 1.8° below that for March this year. Lowest min is lowest since 1996. 2^{nd} wettest April in 131 years. Only the 3^{rd} April in that period to exceed 100 mm.

May: Mild, dry, below normal sunshine. Mean min 10th highest since 1882. The highest min 7th highest in 100 years. The highest daily mean is highest since 1989.

Month	Mean	Anom	Mean	Anom	Rain	Anom	Sun	Anom	Wind	Max	Mean	Anom
	Max		Min		mm		hrs		Mn mph	gust	pressure	
March	14.6°	+3.4°	2.5°	-0.7°	16.8	37%	184.8	166%	5.3	37	1028.4	+12.5
April	12.8°	-1.2°	3.4°	-1.0°	119.5	246%	130.8	81%	7.4	39	1004.2	-10.8
May	17.8°	+0.3°	8.3°	+0.8°	24.8	49%	184.7	97%	6.4	35	1016.9	+1.0

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Appendix 1.

Explanation and definition of some of the terms used in the Wokingham Weather Reports.

Average: Generally refers to the 30 year climatological average, currently 1981 to 2010. This will be next updated in 2010. For some parameters, notably wind, the climatological average is not available, and if the word average is used in the context of wind, it refers to the average for the period for which data is held, namely 1988 to present.

For sunshine, there was a change in instrument used to detect sunshine amount in July 1999, and the data produced by the new instrument is not strictly comparable with that obtained prior to July 1999, making the climatological average based on the old instrument of little use. In general, the new instrument produces higher values in the winter half year, and lower ones in the summer half, than the old type of instrument, due to a combination of faster reaction and higher sensitivity than the old type. Thus the average used in this case is for a theoretical equivalent average for the 1981 to 2010 climatological period for this new instrument, based on comparisons with Met Office published tables of departure from the climatological average sunshine in the months since 2000 for their area 'Southern England'. Users of the Wokingham Monthly Weather reports should be aware of this, and regard the anomalies for sunshine published therein as a guide only, until such time has elapsed since the introduction of the new instrument that a genuine average becomes available.

Mean: The mean of the data under discussion, often the monthly mean of daily data. The mean is obtained by summation of the individual values and dividing by the number of values. The term 'daily mean' in respect of temperature is defined as "half (max+min)". A true daily 24 hour (00 to 24 GMT) mean temperature is available from the AWS, and is currently published on page 7 of the Wokingham Monthly Weather Report on the Wokingham Weather Web Site, page1. http://www.woksat.info/wwp1.html

Anomaly : When a value is given for anomaly, this will have the following meanings:

a): The departure of a mean from the current climatological average.

b): The departure of a value from the a long-term average for a particular day.

When the word anomaly is used in respect to temperature, any values given are in degrees C. In respect to rainfall, percent. In respect to sunshine, percent. In respect to wind, mph. In respect to pressure, millibars/hpa.

Categories : Reference may be made in the reports to 'categories'. Each category has a strict statistical range, as outlined below.

Temperature: The terms mild/cold are used in the winter half year, and warm/cool in the summer half.

The term normal is defined as being when the individual mean (monthly, seasonal or annual) value is within 20% of the median of all ranked values for that month/season/year.

Mild/warm: The value lies between 10% and 30% below the highest value in the ranked series.

Very mild/very warm: The value lies within 10% of the highest value in the ranked series.

Cold/cool: The value lies between 10% and 30% above the lowest value in the ranked series.

Very cold/very cool. The value lies within 10% of the lowest value in the ranked series.

Sunshine: The terms for sunshine are very sunny, sunny, normal, dull and very dull. The definition for sunshine follow the same rules as for temperature.

Rainfall: The terms for rainfall are very dry, dry, normal, wet and very wet.

The term normal follows the same rule as for temperature and sunshine.

The term wet is used for values lying between 10% and 30% below the highest value in the ranked series.

the term very wet is used for values lying within 10% of the highest value in the ranked series.

The term dry is used for values lying between 10% and 30% of the lowest value in the ranked series.

The term very dry is used for values lying within 10% of the lowest value in the ranked series.

Long-term : Mention may be made in the reports to the 'long-term'. The long-term record comprises a temperature/rainfall/sunshine data series compiled from the records of various station in the Wokingham area in the years prior to the establishment of a weather station at Emmbrook in 1976.

In the case of monthly max, min and mean temperature and of rainfall total the 'long-term' goes from the present back to 1882. For extremes of temperature, highest max and lowest min are back to 1904, and for lowest max and highest min, to 1913.

Rank : The word rank refers to the position of a value for a particular month/season/year in the ranked values of the entire series. The central value in the ranked series is known as the median. This value may be different from the 'average' if the population of values is skewed. Also, as the median considers all values in the series, and the average refers to a 30 year climatological period, during periods of climatic change, the median will also be expected to differ from the average.

Month: Calendar month.
Season: Spring, March to May. Summer, June to August Autumn, September to November Winter, December to February. The year number given when discussing 'winter' is usually the year in which the majority of the period lies,.
i.e. January/February
Annual or Year : The calendar year, 1st January to 31st December.

The climatological day : runs from 09 to 09 GMT. The max temperature and rainfall read at 0900 are attributed to the previous day, as is the duration of measurable rain calculated up to 0900 GMT. The min temperature and grass min read at 0900 are attributed to the day of reading . Pressure is read at 0900 GMT, and the monthly mean pressure is the mean of the 0900 readings. Sunshine data, wind data, rainfall rates and 24 hour data from the AWS use the normal 00 to 24 GMT day.

Frost: An air frost day is recorded when the minimum temperature read at 0900 GMT on that day is -0.1° C or below. A ground frost day is recorded when the grass minimum temperature read at 0900 GMT on that day is -0.1° C or lower.

Duration of air frost is defined as the number of minutes that the AWS one minute average temperature is below 0.0° C, and the day runs from midnight to midnight.

Snow : A day with snow falling is triggered if snow falls at any time in the 24 hours from midnight on that day. A day with snow lying is entered if there is at least 50 % cover of snow at the 0900 GMT observation.

Hail : A day of hail is recorded if hailstones of 5 mm diameter or more are observed or recorded on the hail pad on a 24 hour period starting at midnight.

A day of small hail is recorded if hailstones less than 5 mm diameter are observed or recorded in a 24 hour period starting at midnight. Note, various types of other ice meteors such as ice pellets, snow grains, and some types of snow pellets are included in this category.

Fog: A day of fog is recorded if the horizontal visibility at 0900 GMT is below 1000 m.

Thunder: A day of thunder is recorded if thunder is heard in the 24 hour period from midnight on that day.

Rainfall : Rainfall is given in mm and tenths. "tr" (trace) is entered when: a) precipitation has occurred but there is no water in the gauge. b) There is water in the gauge but it is less than 0.05 mm.

Dry Spell : A dry spell, for the purposes of the Wokingham climatological data and reports, is defined as a period of 5 or more consecutive dry days. A dry day is defined as one where the 24 hour precipitation measured at 09 GMT is not greater than 0.1 mm.

Wind: The following abbreviations may be used to denote wind directions :

Degrees are from true north

Ν	= North $=$ 360°	and 22.5°	either side.
NE	= NorthEast = 045°	and 22.5°	either side.
E	$=$ East $= 090^{\circ}$	and 22.5°	either side.
SE	= SouthEast $=$ 135°	and 22.5°	either side.
S	$=$ South $= 180^{\circ}$	and 22.5°	either side.
SW	= SouthWest = 225°	and 22.5°	either side.
W	= West $=$ 270°	and 22.5°	either side.
NW	= NorthWest $=$ 315°	and 22.5°	either side.

Wind – terms for speed used in monthly reports: When the following terms are used in the monthly reports, they will be based on the following unofficial criteria, (the day runs from 00 to 24 GMT) :

Term	Daily mean speed,	knots	Highest hourly mean sp	eed, knots	24 hour maximum gust, knots
Very light	3 or less	and	4 or less	and	8 or less
Light	3 to 6	or	4 to 8	or	8 to 16
Moderate	6 to 9	or	8 to 12	or	16 to 24
Fresh	9 to 12	or	12 to 16	or	24 to 32
Strong	12 to 15	or	16 to 20	or	32 to 40
Very strong	15 to 18	or	20 to 24	or	40 to 48
Near gale	18 to 21	or	24 to 28	or	48 to 56
Gale	21 to 24	or	28 to 32	or	56 to 64
Severe gale	24 to 27	or	32 to 36	or	64 to 72

B.J.Burton. 3 August 2009 Updated 8 Sept 2009, 4 Nov 2011 Appendix 2.

Explanation and decode for code figures used in the Wokingham 0900 and 1500 GMT observations

VV: Visibility.

Code figures 00 to 50 are in km and tenths e.g. 01 = 0.1 km = 100 m, 33 = 3.3 km, 50 = 5.0 km Code figures 60 to 80. Subtract 50 to obtain visibility in km. e.g. 56 = 6 km, 65 = 15 km, 77 = 27 km. Code figures 81 to 89. Subtract 50 and add 5 for every one above 80. e.g. 83 = 45 km, 86 = 60 km. Code figure 89 = visibility above 70 km.

N : Total cloud amount in okta (eighths of sky covered). 9 = sky obscured (e.g. by fog or snow)

dd: Wind direction in tens of degrees from true north. Wind is measured at a height of 10 m, and the direction is the mean over a period of 10 minutes ending at the observation time.

ff: Wind speed in knots, measured at 10 m, and is the mean over a period of 10 minutes ending at observation time.

gg: Wind gust in knots at 10 m. The highest gust in the 60 minutes up to observation time.

TT: Air temperature at 1.2m, degrees C and tenths.

TdTd : Dew point temperature at 1.2m, degrees C and tenths.

RH: Relative humidity at 1.2m, %.

r : Humidity mixing ratio (amount of water vapour per kg of air), grams and tenths.

PPP: Air pressure reduced to MSL, millibars and tenths.

a : Characteristic of pressure tendency during the past 3 hours. Code figures 0 to 3, pressure higher than 3 hours ago, 5 to 8, pressure lower than 3 hours ago

Code figure 0 = Increasing then decreasing, pressure the same as or higher than 3 hours ago

1 = Increasing then steady or increasing more slowly

- 2 = Increasing steadily or unsteadily
- 3 = Decreasing or steady then increasing, or increasing then increasing more rapidly
- 4 = Steady, pressure the same as 3 hours ago
- 5 = Decreasing then increasing, pressure lower than 3 hours ago
- 6 = Decreasing then steady or decreasing more slowly
- 7 = Decreasing steadily or unsteadily

8 = Steady or increasing then decreasing, or decreasing then decreasing more rapidly

ppp: 3 hour pressure tendency in tenths of a millibar

ww: Present weather code figures, 00 to 99.

Present weather decode:

00 = Cloud development not observed or not observable

01 = Clouds generally dissolving or becoming less developed

- 02 = State of sky on the whole unchanged
- 03 = Clouds generally increasing or becoming more developed
- 04 = Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes.

05 = Haze, visibility reduced by extremely small dry particles (RH less than appx. 95 %)

06 = Widespread dust in suspension, not raised by the wind near the station at the time of the observation

07 = Dust or sand raised by the wind at or near the station at the time of the observation, but no well-developed dust whirls or sand whirls, and no duststorm or sandstorm seen: In marine environments, blowing spray at the station. 08 = Well-developed dust or sand whirls seen at or near the station during the preceding hour or at the time of the observation, but no duststorm or sandstorm.

09 = Duststorm or sandstorm within sight at the time of the observation, or at the station during the preceding hour

10 = Mist

- 11 = Patches of shallow fog not deeper than 2 metres on land
- 12 = More or less continuous shallow fog not deeper than 2 metres on land
- 13 = Lightning visible, no thunder heard
- 14 = Precipitation within sight, not reaching the ground
- 15 = Precipitation within sight , reaching the ground more than 5 km from the station
- 16 = Precipitation within sight, reaching the ground, near to but not at the station
- 17 = Thunderstorm, but no precipitation at the time of the observation
- 18 = Squalls at or within sight of the station at the time of the observation or during the preceding hour
- 19 = Funnel cloud(s) at or within sight of the station at the time of the observation or during the preceding hour

20 = Drizzle (not freezing) at the station during the preceding hour but not at the time of the observation

- 21 = Rain (not freezing) at the station during the preceding hour but not at the time of the observation
- 22 = Snow at the station during the preceding hour but not at the time of the observation
- 23 = Rain and snow or ice pellets at the station during the preceding hour but not at the time of the observation
- 24 = Freezing drizzle or freezing rain at the station during the preceding hour but not at the time of the observation
- 25 = Shower(s) of rain at the station during the preceding hour but not at the time of the observation
- 26 = Shower(s) of snow or rain and snow at the station during the preceding hour but not at the time of the observation
- 27 = Shower(s) of hail or rain and hail at the station during the preceding hour but not at the time of the observation
- 28 = Fog or ice fog at the station during the preceding hour but not at the time of the observation
- 29 = Thunderstorm, with or without precipitation at the station during the preceding hour but not at the time of the observation
- 30 = Slight or moderate duststorm or sandstorm has decreased during the preceding hour
- 31 = Slight or moderate duststorm or sandstorm with no appreciable change during the past hour
- 32 = Slight or moderate duststorm or sandstorm has begun or increased during the past hour
- 33 = Severe duststorm or sandstorm has decreased during the preceding hour
- 34 = Severe duststorm or sandstorm with no appreciable change during the past hour
- 35 = Severe duststorm or sandstorm has begun or increased during the past hour
- 36 = Slight or moderate drifting snow generally below eye level
- 37 = Heavy drifting snow generally below eye level
- 38 = Slight or moderate blowing snow generally above eye level
- 39 = Heavy blowing snow generally above eye level

40 = Fog or ice fog at a distance at the time of the observation, but not at the station during the preceding hour, the fog extending to a level above that of the observer.

- 41 = Fog or ice fog in patches
- 42 = Fog or ice fog, sky visible has become thinner during the past hour
- 43 = Fog or ice fog, sky invisible has become thinner during the past hour
- 44 = Fog or ice fog, sky visible no appreciable change during the past hour
- 45 = Fog or ice fog, sky invisible no appreciable change during the past hour
- 46 = Fog or ice fog, sky visible has begun or become thicker during the past hour
- 47 = Fog or ice fog, sky invisible has begun or become thicker during the past hour
- 48 = Fog, depositing rime, sky visible
- 49 = Fog depositing rime, sky invisible
- 50 = Drizzle, not freezing, intermittent slight at time of observation
- 51 = Drizzle, not freezing, continuous slight at time of observation
- 52 = Drizzle, not freezing, intermittent moderate at time of observation
- 53 = Drizzle, not freezing, continuous moderate at time of observation
- 54 = Drizzle, not freezing, intermittent heavy at time of observation
- 55 = Drizzle, not freezing, continuous heavy at time of observation
- 56 = Drizzle, freezing, slight
- 57 = Drizzle, freezing, moderate or heavy (dense)
- 58 = Drizzle and rain, slight
- 59 = Drizzle and rain, moderate or heavy

- 60 = Rain, not freezing, intermittent slight at time of observation
- 61 = Rain, not freezing, continuous slight at time of observation
- 62 = Rain, not freezing, intermittent moderate at time of observation
- 63 =Rain, not freezing, continuous moderate at time of observation
- 64 = Rain, not freezing, intermittent heavy at time of observation
- 65 = Rain, not freezing, continuous heavy at time of observation
- 66 = Rain, freezing, slight
- 67 = Rain, freezing, moderate or heavy
- 68 = Rain or drizzle and snow, slight
- 69 =Rain or drizzle and snow, moderate or heavy

70 = Intermittent fall of snowflakes slight at time of observation

- 71 = Continuous fall of snowflakes slight at time of observation
- 72 = Intermittent fall of snowflakes moderate at time of observation
- 73 = Continuous fall of snowflakes moderate at time of observation
- 74 = Intermittent fall of snowflakes heavy at time of observation
- 75 = Continuous fall of snowflakes heavy at time of observation
- 76 = Diamond dust (with or without fog)
- 77 = Snow grains (with or without fog)
- 78 = Isolated star-like snow crystals (with or without fog)
- 79 = Ice pellets
- 80 = Rain shower(s), slight
- 81 = Rain shower(s), moderate or heavy
- 82 = Rain shower(s), violent
- 83 = Shower(s) of rain and snow mixed, slight
- 84 = Shower(s) of rain and snow mixed, moderate or heavy
- 85 =Snow shower(s), slight
- 86 =Snow shower(s), moderate or heavy
- 87 = Shower(s) of snow pellets or small hail, with or without rain or rain and snow mixed, slight
- 88 = Shower(s) of snow pellets or small hail, with or without rain or rain and snow mixed, moderate or heavy
- 89 = Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder, slight
- 90 = Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder, moderate or heavy
- 91 = Slight rain at time of observation, thunderstorm during the past hour but not at time of observation
- 92 = Moderate or heavy rain at time of observation, thunderstorm during the past hour but not at time of observation
- 93 = Slight snow, or rain and snow mixed, or hail at time of observation, thunderstorm during the past hour but not at time of observation
- 94 = Moderate or heavy snow, or rain and snow mixed, or hail at time of observation, thunderstorm during the past hour but not at time of observation
- 95 = Thunderstorm, slight or moderate, without hail but with rain and or snow at time of observation
- 96 = Thunderstorm, slight or moderate, with hail at time of observation
- 97 = Thunderstorm, heavy, without hail but with rain and or snow at time of observation
- 98 = Thunderstorm combined with duststorm or sandstorm at time of observation
- 99 = Thunderstorm, heavy, with hail at time of observation

Hail includes large hail, small hail and snow pellets.

W1, W2 : Past weather (for 0900 and 1500 GMT observations, the period covered is 3 hours)

Code figures:

0 = Cloud covering half or less of the sky throughout the period

- 1 = Cloud covering more than half the sky during only part of the period
- 2 = Cloud covering more than half the sky throughout the period
- 3 = Sandstorm, duststorm or blowing snow
- 4 = Fog or ice fog or thick haze (visibility less than 1000 m)
- 5 = Drizzle
- 6 = Rain
- 7 = Snow or rain and snow mixed
- 8 =Shower(s)

9 = Thunderstorm(s) with or without precipitation

Nh : Amount of low cloud, or medium cloud if no low cloud present, okta

Cl : Type of low cloud

0 = No low cloud

1 = Cumulus with little vertical extent and seemingly flattened, or ragged Cumulus other than bad weather, or both 2 = Cumulus of moderate or strong vertical extent, either accompanied or not by other Cumulus or Stratocumulus all having their bases at the same level

3 = Cumulonimbus whose summits, at least partially, lack sharp outline, but are neither clearly fibrous (cirriform), nor in the form of an anvil; Cumulus, Stratocumulus or Stratus may also be present

4 = Stratocumulus formed by the spreading out of Cumulus; Cumulus may also be present

6 = Stratus in a more or less continuous sheet or layer, or ragged shreds, or both, but no Stratus fractus of bad weather

7 = Stratus fractus of bad weather or Cumulus fractus of bad weather or both (pannus), usually below Altostratus or Nimbostratus

8 = Cumulus and Stratocumulus other than that formed by the spreading out of Cumulus, the bases of the Cumulus and Stratocumulus are not at the same level.

9 = Cumulonimbus, the upper part of which is clearly fibrous (cirriform), often in the form of an anvil, either accompanied or not by any other type(s) of low cloud

/ = Types of low cloud invisible due to darkness, fog, blowing dust or sand or other similar phenomena.

'Bad weather' denotes the conditions which generally exist during precipitation and a short time before and after.

Cm : Type of medium cloud.

0 = No medium cloud.

1 = Altostratus, the greater part of which is semi-transparent; through this part the sun or moon may be weakly visible, as through ground glass

2 = Altostratus, the greater part of which is sufficiently dense to hide the sun or moon, or Nimbostratus

3 = Altocumulus, the greater part of which is semi-transparent; the various elements of the cloud change only slowly and are all at a single level

4 = Altocumulus in patches (often in the form of almonds or fishes), the greater part of which is semi-transparent; the clouds occur at one or more levels and the elements are continually changing in appearance

5 = Altocumulus in bands semi-transparent, of Altocumulus in one or more fairly continuous layers (semi-

transparent or opaque), progressively invading the sky; these Altocumulus clouds generally thicken as a whole 6 = Altocumulus resulting from the spreading out of Cumulus (or Cumulonimbus)

7 = Altocumulus in two or more layers, usually opaque in places, and not progressively invading the sky; or opaque layer of Altocumulus not progressively invading the sky; or Altocumulus together with Altostratus or Nimbostratus 8 = Altocumulus with sproutings in the form of small towers or battlements, or Altocumulus having the appearance of cumuliform tufts

9 - Altocumulus of a chaotic sky, generally at several levels

/ = Types of medium cloud invisible owing to darkness, fog, blowing dust of sand or other similar phenomena, or more often because of the presence of a continuous layer of lower clouds.

Ch: Type of high cloud

0 = No high cloud

1 = Cirrus in the form of filaments, strands or hooks, not progressively invading the sky.

2 = Dense cirrus, in patches or entangled sheaves, which usually do not increase and sometimes seem to be the remains of the upper part of a Cumulonimbus; or Cirrus with sproutings in the form of small turrets or battlements, or Cirrus having the appearance of cumuliform tufts

3 = Dense Cirrus, often in the form of an anvil, being the remains of the upper part of Cumulonimbus, or where the rest of the Cumulonimbus is below the horizon

4 = Cirrus in the form of hooks or filaments, or both, progressively invading the sky; they generally become denser as a whole

5 = Cirrus (often in bands converging towards one or two opposite points on the horizon) and Cirrostratus, or Cirrostratus alone; in either case they are progressively invading the sky, and generally growing denser as a whole, but the continuous veil does not reach 45 degrees above the horizon.

6 = Cirrus (often in bands converging towards one or two opposite points on the horizon) and Cirrostratus, or Cirrostratus alone; in either case they are progressively invading the sky, and generally growing denser as a whole; the continuous veil extends more than 45 degrees above the horizon, without the sky being totally covered 7 = Veil of Cirrostratus covering the celestial dome.

8 = Cirrostratus not progressively invading the sky and not completely covering the celestial dome

9 = Cirrocumulus alone, or accompanied by Cirrus or Cirrostratus, or both, but Cirrocumulus is predominant. / = Types of high cloud invisible owing to darkness, fog, blowing dust of sand or other similar phenomena, or more often because of the presence of a continuous layer of lower clouds.

8 Groups

N = Amount of cloud reported by C, okta.

C = Type of cloud

- 0 = Cirrus (Ci)
- 1 = Cirrocumulus (Cc)
- 2 = Cirrostratus (Cs)
- 3 = Altocumulus (Ac)
- 4 =Altostratus (As)
- 5 = Nimbostratus (Ns)
- 6 = Stratocumulus (Sc)
- 7 =Stratus (St)
- 8 = Cumulus (Cu)
- 9 = Cumulonimbus (Cb)

/ = Cloud type not visible owing to darkness, fog, duststorm, or other analogous phenomena.

hshs = Height of cloud above station level reported by type C

00 to 50 = Height in hundreds of feet

51 to 55 Not used

56 to 80 = Subtract 50 to obtain cloud height in thousands of feet

81 to 88 = Height of cloud between 35000 and 70000 ft in 5000 ft steps.