

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

MAY 2025

		Anomaly	Rank in the past	144	years				
Temperature (°C)									
Mean maximum	20.6	+2.5	2nd highest						
Mean minimum	8.0	+0.3	23rd highest						
Daily mean	14.3	+1.4	4th highest						
Highest maximum	27.8	on 1st	Lowest maximum	13.9	on 15th				
Highest minimum	14.6	on 30th	Lowest minimum	1.8	on 6th				
Mean grass minimum	3.9	-0.6	Lowest grass minimum	-3.7	on 6th				
Mean earth @30 cm	14.5	+0.7	Earth @100 cm	13.1	+1.0				
Frost duration (hrs)	0.0		Rain duration (hrs)	16.3					
Rainfall total (mm)	24.0	54 %	23rd lowest						
Highest daily fall	10.2	on 11th	Highest rate mm/hr	31	on 11th				
Number of: Dry days (<0.2mm)	24	Wet days (>0.9mm)	5	days ≥5mm	2				
Sunshine total (hrs)	250.8	Daily mean	8.09	129 %	Sunniest day	15.1	on 16th		
N° days with: Air frost	0	Ground frost	10	Snow falling	0	Snow lying	0		
Thunder	1	Hail ≥5mm	0	Small hail/ice	0	Fog @09	0	Nil sun	1
Pressure MSL: Mean @09 GMT, mbar	1018.8	+2.3	Highest	1027.9	on 16th	Lowest	1006.6	on 25th	
Relative humidity: Mean (%)	68.1	Lowest	21	on 10th	Water vapour (g/kg), mean at 09 and 15 GMT	6.9,	6.5		
Overall mean wind speed (mph)	6.3	Windiest day	12.1	on 25th	Max gust	31	on 25th		
Wind direction (days)	N 9	NE 7	E 4	SE 1	S 1	SW 7	W 2	NW 0	
Least windy day (mph)	3.1	on 20th	Calm; less than 0.5 mph (minutes)	n/a					

Anomaly = departure from 1991 to 2020 average (degrees C, percent and mbar).

Notes:

Very Warm with Sunshine Above, and Rainfall Below, Average

Temperature: The mean maximum is 2.5° above average and 2nd highest in 144 years, 0.2° below the record set in 2020. The mean minimum, however, is much closer to average, anomaly +0.3°, and the resulting daily mean temperature is 1.4° above average and is 4th highest in the past 144 years, only 0.1° below the joint highest in 1992, 2008 and 2024. The month's highest max is 2.4° above the median while the lowest max is 2.7° above its median and 8th highest in 113 years. The highest min is 2.1° above the median and is also 8th highest in 113 years while the lowest min is 1.3° above its median. The mean grass in is 0.6° below average, but is lowest since only 2021, as also is the lowest daily value. Earth temperature at both 30cm and 1m depth is well above average. Anomalies for daily max were over +8° on the 1st, 2nd and 11th, and were negative only on the 15th and 27th, with extreme values of +12.3° on the 1st and -3.7° on the 15th. Anomalies for daily min were over +5° on the 2nd, 12th, 25th and 30th, and exceeded -3° on the 6th, 9th, 22nd and 23rd, with extreme values of +6.3° on the 2nd and -5.2° on the 23rd. **Rainfall:** Another dry month, the third consecutive such month, with only just over half the average rainfall. The period 23rd of April to the 19th May saw only one rain day, the 11th, when all of the 27 day total of 10.2 mm fell. This one fall of rain gave 42% of the month's total, the rest falling between the 20th and 28th. There were 2 dry spells, one of 18 days ended on the 10th, and second of 8 days on the 19th. There was no hail this May, but thunder was heard on the 21st. The duration of measurable rain was 45% of average. The rainfall rate did not reach the violent category (50 mm/hr) this month, but there were heavy rain showers on the 11th, 12th and 27th. Rainfall accumulation compared with normal was 14 mm in deficit on the 10th, which decreased to 6 mm on the 11th, but then increased to 18mm by the 19th, where it remained to the 31st. **Sunshine:** This has been another sunny month with 129% of the average, and the 3rd consecutive month to have well above average sunshine. It is the 3rd sunniest May in this millennium after 2018 and 2020. The 6 day period ending on the 2nd was outstandingly sunny, having a daily mean of 12.45 hours sunshine per day, and the 11 days to the 17th were also very sunny, giving a mean of 10.66 hours sunshine per day, despite the 15th being the month's only day with nil sun, sandwiched between 2 days with unbroken sunshine, both having over 15 hours. Daily accumulation compared with normal was 10 hours in surplus on the 6th, increasing to 40 hours by the 13th and to 68 hours by the 23rd, then decreasing to 56 hours by the 31st. Overall there were 4 days with <3 hours, 21 with =>6 hours and 4 with =>12 hours. **Wind:** The mean speed of 6.3 mph is close to average, as is the speed on the month's windiest day, but the highest gust is 7 mph below average. Daily mean directions were generally between N and E from the 1st to the 22nd and between S and W from 23rd to the 31st with exceptions of between E and S on the 1st and 12th and between W and N on the 21st. Daily mean speeds were generally moderate, except for fresh on the 25th, and light on the 1st, 2nd, 12th and 17th to 22nd. **Miscellaneous:** Estimated soil moisture deficit indicates that shallow rooted unirrigated plants would suffer severe stress after mid-May.

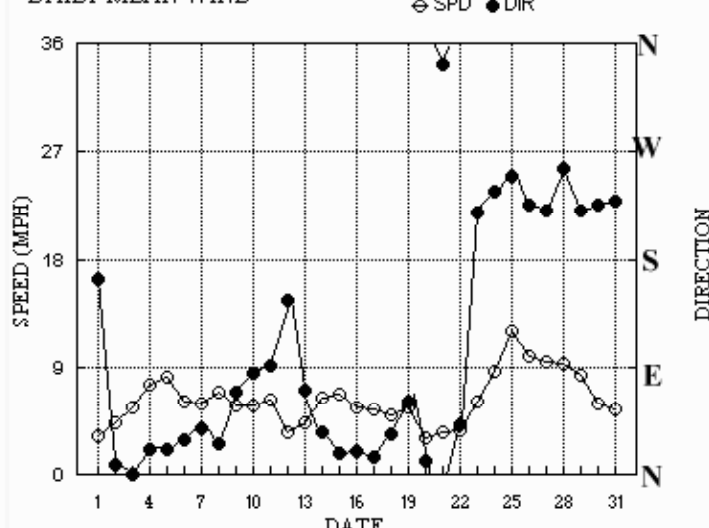
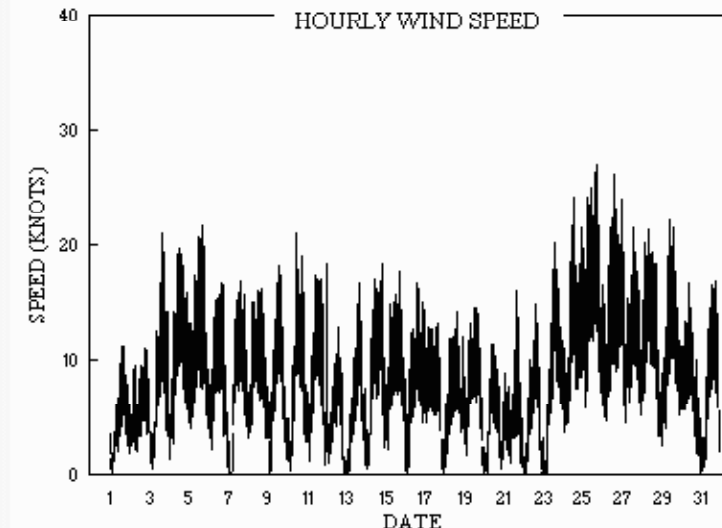
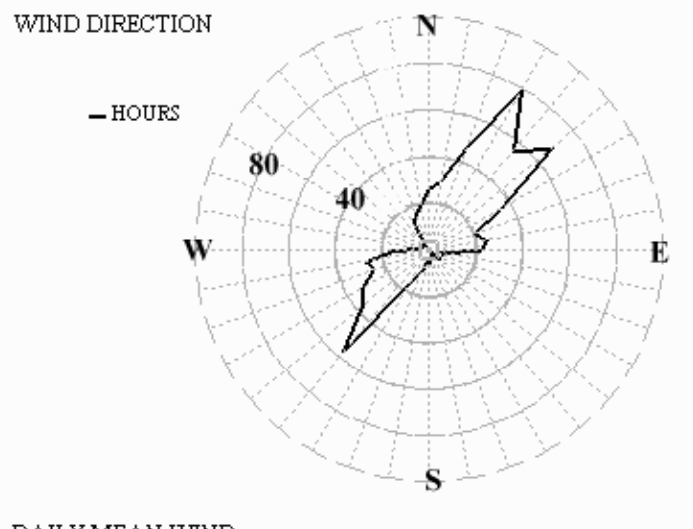
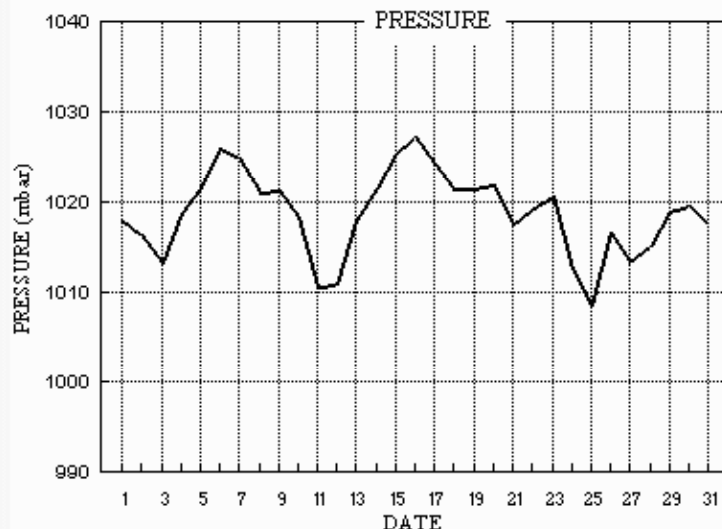
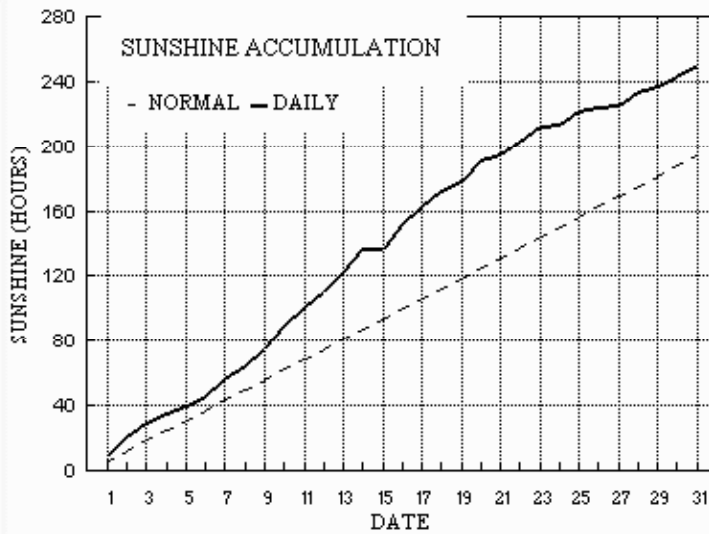
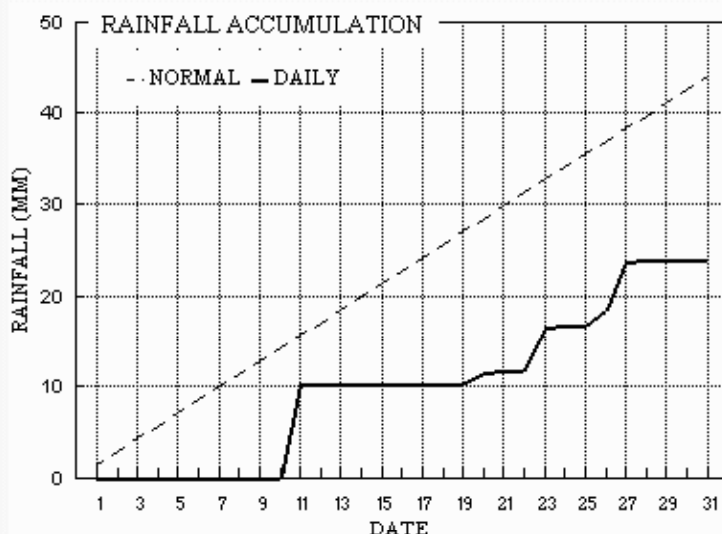
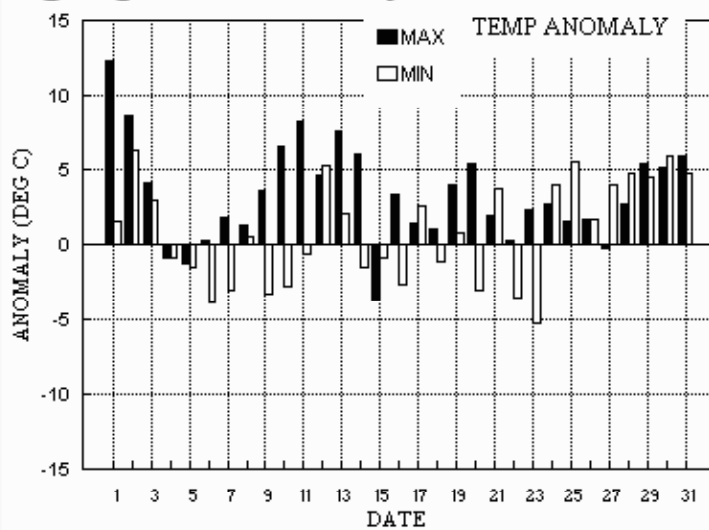
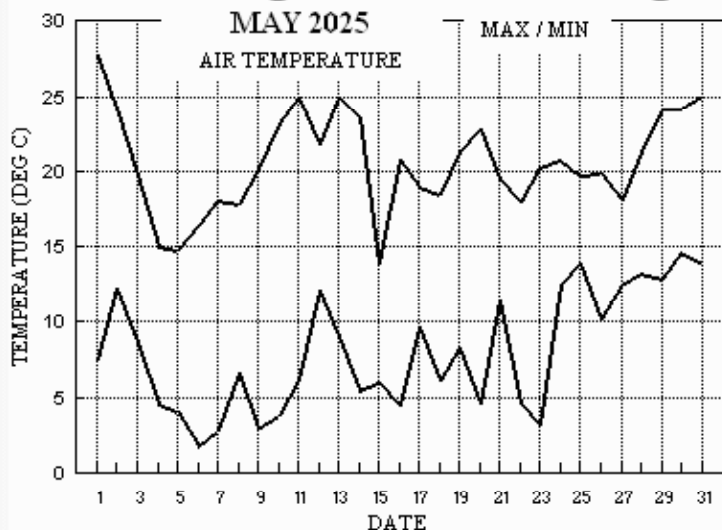
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

From the 1 st to the 10 th				From the 11 th to the 20 th				From the 21 st to the 31 st			
+3.6°	-0.4°	0 %	145 %	+3.8°	+0.1°	82 %	161 %	+2.6°	+2.7°	80 %	87 %

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham climatological graphs for May 2025



Month: MAY 2025

Date	Max C	Min C	Rain mm	Grass Min	30cm C	100cm C	Sun hrs	Frost hrs	pp09 mbar	Af Gf	Sf SI	Th Ha	Ic Fg	Vec ddd	mean ff	sp	Max gust ddd	gg	HHhh	High hr ddd	ff	Rain HH	hrs
1	27.8	7.5	0.0	2.6	13.7	11.7	10.3	0.0	1018.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	163	1.6	2.9	212	11	1445	189	5	16	0.0
2	24.2	12.2	0.0	7.0	14.1	11.9	11.2	0.0	1016.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	8	2.5	3.8	27	11	1720	27	6	17	0.0
3	19.7	8.7	0.0	4.1	14.5	12.1	8.3	0.0	1013.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1	4.0	4.9	355	21	1555	30	10	17	0.0
4	15.0	4.6	0.0	-1.0	14.0	12.4	5.8	0.0	1018.7	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	22	6.5	6.6	35	20	1340	29	10	00	0.1
5	14.7	4.0	tr	-0.2	13.5	12.5	5.0	0.0	1021.6	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	22	6.9	7.1	25	22	1720	30	11	13	0.6
6	16.4	1.8	0.0	-3.7	12.8	12.5	5.6	0.0	1026.1	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	30	5.2	5.3	34	17	1630	37	10	16	0.0
7	18.1	2.8	0.0	-1.7	12.8	12.4	10.3	0.0	1024.9	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	39	5.1	5.1	45	17	1620	38	9	16	0.0
8	17.8	6.6	0.0	2.4	13.1	12.4	8.4	0.0	1021.2	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	27	5.8	6.0	16	16	1800	41	8	11	0.0
9	20.1	2.9	0.0	-2.2	13.1	12.4	10.8	0.0	1021.3	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	70	4.7	5.0	77	18	1420	85	10	15	0.0
10	23.1	3.8	0.0	-1.3	13.4	12.4	14.7	0.0	1018.4	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	86	4.8	5.1	94	21	1125	99	10	11	0.0
11	25.0	6.1	10.2	0.3	13.6	12.5	11.6	0.0	1010.7	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	92	4.3	5.5	121	18	2325	78	10	11	1.9
12	21.7	12.1	0.0	7.8	14.1	12.6	8.9	0.0	1010.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	146	2.5	3.1	161	13	1505	180	7	13	0.0
13	24.9	9.0	0.0	4.7	14.4	12.8	11.5	0.0	1017.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	71	3.6	3.8	91	17	1615	87	9	16	0.0
14	23.6	5.4	0.0	-0.1	14.7	12.9	15.1	0.0	1021.5	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	36	5.4	5.6	40	18	1905	38	9	17	0.0
15	13.9	6.0	0.0	0.2	14.8	13.1	0.0	0.0	1025.4	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	19	5.9	5.9	32	18	1815	20	9	12	0.0
16	20.8	4.4	0.0	-1.5	14.1	13.2	15.1	0.0	1027.3	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	20	4.7	5.0	34	17	1540	31	8	15	0.0
17	18.9	9.6	0.0	4.1	14.5	13.3	10.9	0.0	1024.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	15	4.4	4.7	41	14	0005	39	7	00	0.0
18	18.4	6.1	0.0	0.8	14.8	13.3	8.9	0.0	1021.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	35	4.2	4.4	53	14	1535	35	6	21	0.0
19	21.2	8.3	0.0	2.5	15.1	13.5	6.4	0.0	1021.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	61	4.7	4.9	46	15	1230	52	8	12	0.0
20	22.8	4.6	1.4	-1.2	15.0	13.6	12.4	0.0	1022.0	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	12	2.3	2.7	75	12	1035	52	6	10	3.4
21	19.5	11.5	0.1	8.9	15.3	13.7	4.0	0.0	1017.6	0 0 0 0	0 0 0 0	1 0 0 0	0 0 0 0	342	2.1	3.1	44	16	1700	34	7	17	0.2
22	18.0	4.6	0.0	0.5	15.0	13.8	8.0	0.0	1019.3	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	42	3.0	3.2	36	15	1510	42	8	15	0.0
23	20.2	3.1	4.8	-1.5	14.9	13.9	9.7	0.0	1020.7	0 1 0 0	0 0 0 0	0 0 0 0	0 0 0 0	219	5.2	5.4	203	20	1500	214	11	14	2.8
24	20.7	12.4	0.3	12.1	15.1	13.9	0.3	0.0	1012.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	237	7.2	7.5	247	24	1425	253	12	13	0.9
25	19.7	13.9	0.0	12.1	15.3	13.9	8.8	0.0	1008.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	249	10.1	10.5	254	27	1900	258	14	17	0.0
26	19.9	10.2	1.7	7.9	15.2	14.0	2.7	0.0	1016.7	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	225	8.5	8.6	251	26	1430	211	11	23	1.1
27	18.1	12.4	5.1	10.8	15.1	14.0	0.3	0.0	1013.5	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	220	8.0	8.2	215	24	0005	212	12	00	4.8
28	21.2	13.2	0.4	11.6	15.1	14.1	9.0	0.0	1015.1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	255	8.0	8.1	248	21	0840	256	12	08	0.5
29	24.2	12.9	0.0	9.4	15.5	14.1	3.4	0.0	1018.9	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	221	7.1	7.3	241	22	1145	234	11	16	0.0
30	24.2	14.6	0.0	13.2	16.2	14.2	5.3	0.0	1019.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	226	5.0	5.2	236	17	1115	229	8	11	0.0
31	25.1	13.8	0.0	10.9	16.7	14.4	8.1	0.0	1017.6	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	228	4.6	4.8	206	17	1830	212	9	18	0.0

Total 24.0 250.8 0.0 16.3

Mean 20.6 8.0 3.9 14.5 13.1 8.09 0.0 1018.8 360 0.8 5.5

Anom +2.5 +0.3 54% -0.6 +0.7 +1.0 129% +2.3

Daily mean 14.3 Pressure, abs highest = 1027.9 on 16

Anom +1.4 Pressure, abs lowest = 1006.6 on 25

Number of days with:

Air frost = 0 Ground frost = 10 Nil sun = 1

Snow falling = 0 Snow lying = 0 Thunder = 1

Hail=>5mm = 0 Hail<5mm or ice = 0 Fog at 09GMT = 0

Abbreviations.

Max/min = highest and lowest air temperature at 1.2m in 24 hour period ending at 09 GMT

Rain = total rainfall and melted snowfall in 24 hour period ending at 09 GMT, millimetres. (Tr = trace, <.05mm).

Grass min = Lowest overnight temperature at grass tip level.

Sun = hours of bright sunshine, measured electronically. Frost = Number of hours with air temp below 0 deg C.

pp09 = Air pressure corrected to mean sea level at 0900 GMT, millibars.

Af = Air frost. Gf = Ground frost. Sf = Snow falling. 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.

Maximum daily rain rate in mm/hr

All temperatures in degrees Celsius.

Anomaly - Departure from the 1991 to 2020 climatological average

Weather observations. Emmbrook, Wokingham, Berkshire.

Observations at 0900 GMT for MAY 2025

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cf	NCh	shs	NCh	shs	NCh	shs	Date	Remarks
1	57	3	12	03	05	18.5	10.8	61	8.0	1018.2	6	009	05	1	1	0	0	9	0	1	81073	83077					1	COTRA	
2	64	6	09	02	06	17.8	12.0	69	8.7	1016.4	0	009	03	1	1	6	0	9	7	/	86359						2		
3	75	2	35	05	11	16.2	9.6	65	7.4	1013.2	8	010	01	1	1	2	5	6	0	1	82640						3	1Ci78 COTRA	
4	82	3	02	08	13	11.9	3.2	55	4.7	1018.7	0	000	03	1	1	3	8	5	0	0	83825						4	1Sc50 Cu hum	
5	75	7	02	10	18	9.8	4.0	67	5.0	1021.6	0	001	03	2	2	7	8	5	/	/	85820	86625					5	Cu hum	
6	83	8	05	08	16	9.5	1.9	59	4.3	1026.1	2	005	03	1	1	8	5	6	/	/	88633						6		
7	82	6	04	08	13	11.3	5.6	68	5.6	1024.9	7	007	03	2	2	2	1	5	0	1	82825	85078					7	COTRA Cu hum U/a cont strong	
8	86	5	07	10	15	14.1	4.7	53	5.2	1021.2	8	003	01	1	1	5	5	6	0	0	85632						8		
9	65	2	06	07	11	11.7	7.0	73	6.2	1021.3	0	000	01	1	1	2	6	4	0	1	82710						9	1Ci75	
10	75	0	08	05	09	17.4	8.8	57	7.0	1018.4	8	012	02	0	0	0	0	9	0	0							10		
11	84	5	08	07	13	19.4	7.2	45	6.3	1010.7	7	014	02	1	1	0	0	9	0	1	81075	85080					11	COTRA	
12	82	7	14	04	08	17.2	13.3	78	9.5	1010.9	2	010	03	2	2	5	8	4	7	/	85812	83362					12	2Sc56 Cu med	
13	68	2	07	04	07	17.6	11.8	69	8.6	1017.9	1	007	01	1	1	1	5	7	8	1	81656						13	2Ac58 1Ci75 Ac cas	
14	82	1	04	06	13	16.0	7.5	57	6.4	1021.5	1	003	02	0	0	0	0	9	0	1	81075						14		
15	70	8	02	07	14	11.5	6.0	69	5.7	1025.4	1	006	02	2	2	8	5	5	/	/	88621						15		
16	67	1	36	05	10	13.1	6.2	63	5.8	1027.3	8	001	01	0	0	1	6	4	0	0	81715						16		
17	80	6	03	06	12	12.8	5.9	63	5.7	1024.3	5	001	01	2	2	6	5	5	/	/	86625						17		
18	63	7	03	06	10	12.1	6.4	68	5.9	1021.6	1	001	02	2	2	7	5	5	/	/	87620						18		
19	65	7	07	07	12	13.6	7.6	67	6.4	1021.6	0	004	03	2	2	7	8	5	/	/	85820	84635					19	Cu med	
20	86	3	04	05	11	16.4	7.3	55	6.3	1022.0	0	000	03	0	0	1	5	7	0	4	81656	83075					20	COTRA Halo 22° part	
21	67	8	22	01	04	12.7	10.8	88	8.0	1017.6	0	002	21	6	6	7	5	3	2	/	81708	83630	85656				21	8As58	
22	75	5	05	04	11	13.9	6.5	61	6.0	1019.3	8	001	03	1	1	5	8	5	3	0	81820	85650					22	1Ac62 Cu hum Sc cas	
23	77	1	24	05	10	14.9	7.7	62	6.5	1020.7	8	007	03	0	0	1	2	5	0	1	81825						23	1Ci75 Cu med	
24	82	8	26	07	15	16.2	13.9	86	9.8	1012.6	6	003	01	6	2	8	5	4	/	/	87615	88620					24		
25	86	4	27	13	25	18.0	8.3	53	6.8	1008.5	2	012	03	1	1	4	8	6	0	0	83833						25	2Sc56	
26	81	7	25	09	19	15.7	7.2	57	6.3	1016.7	0	003	02	2	2	7	8	6	/	/	81830	85637	87656				26	Absent vv&cld est	
27	88	8	22	08	17	14.8	10.2	74	7.7	1013.5	1	004	60	6	2	3	5	6	7	/	81635	83650	88357				27	Absent vv&cld est	
28	81	4	26	13	22	18.1	9.7	58	7.4	1015.1	2	018	03	1	1	4	8	5	0	1	82825	83650					28	1Ci78 Cu med	
29	84	7	22	10	18	18.8	14.5	76	10.2	1018.9	7	003	02	2	2	5	8	4	0	1	82813	84656	85078				29	COTRA Cu fra/hum	
30	86	3	23	07	14	19.6	12.6	64	9.0	1019.6	8	002	01	1	1	2	1	4	0	2	82818						30	1Ci75 Cu hum	
31	88	1	23	04	09	20.6	12.6	60	9.0	1017.6	8	004	01	1	1	1	8	5	3	0	81828						31	1Sc40 1Ac65 Cu hum El hz lyr thk	

Mean vis = 35.1 km

Mean cloud = 4.7 58%

Mean wind speed = 6.6 kn

Mean gust = 13 kn

Mean TT = 15.2 °C

Mean TdTd = 8.4 °C

Mean RH = 64.5 %

Mean r = 6.9 g/kg

Mean PPP = 1018.8 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

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 MAY 2025

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Cf	NChs	h	NChs	NChs	Date	Remarks
1	82	7	24	06	12	27.7	7.0	27	6.2	1014.3	8	019	03	1	1	1	2	8	0	5	81857	86075			1	2Cs70 Cu med Halo 22° part	
2	75	6	36	06	10	22.6	12.8	54	9.2	1014.4	5	009	03	1	1	6	4	6	/	1	85838				2	2Sc45 /Ci75 Cu con Sky turbid	
3	81	2	34	10	17	18.4	7.8	50	6.6	1013.2	5	001	02	1	1	2	8	6	0	0	81838				3	2Sc42 Cu hum	
4	86	7	03	10	18	13.0	2.0	47	4.3	1018.7	2	002	02	2	2	7	4	6	/	/	81848	83650	85656		4	Cu hum	
5	80	6	04	10	20	13.3	3.9	53	5.0	1021.9	8	002	15	8	2	6	8	6	/	/	81833	86656			5	2Sc50 Cu med jpW vv60k ex p	
6	86	4	05	08	15	15.7	3.2	43	4.7	1024.2	6	015	02	1	1	4	4	6	0	1	81847	84650			6	1Ci80 COTRA Cu hum	
7	88	7	05	07	17	16.7	6.2	50	5.8	1022.2	6	012	03	2	2	5	4	6	3	1	82842	85645	86366		7	/Ci72 Cu hum	
8	82	6	03	09	15	17.7	6.3	47	5.9	1020.1	8	007	02	2	2	6	8	6	0	0	82840	85650			8	Cu med	
9	88	1	08	10	19	19.7	-1.1	25	3.5	1019.2	7	011	02	1	1	1	4	7	0	1	81856				9	1Sc56 1Ci80 Cu hum	
10	88	1	12	09	18	22.8	0.6	23	3.9	1014.9	8	015	02	0	0	1	4	8	0	1	81657				10	1Ci78	
11	80	5	10	07	14	22.3	7.3	38	6.4	1007.8	7	008	15	1	1	2	2	7	6	1	82856	83075			11	1Ac60 jpW vv80k ex p	
12	70	3	18	06	14	20.8	9.4	48	7.3	1011.1	8	002	15	1	1	1	9	6	6	3	81930	81835			12	1Ac59 1Ac66 2Ci72 Cb cap pra Cb&jpN vv60k ex p	
13	80	3	09	08	15	24.7	6.9	32	6.1	1016.5	7	012	15	0	0	2	2	7	6	3	81856				13	1Ac58 2Ac62 1Ci75 COTRA Cu con jpSW-W vv60k ex p	
14	84	5	04	07	15	23.4	4.4	29	5.1	1020.5	7	003	03	1	1	1	1	7	0	1	81856	85073			14	COTRA Cu hum	
15	75	8	04	08	15	13.0	7.0	67	6.1	1025.7	2	001	02	2	2	8	5	5	/	/	88626				15		
16	80	1	03	08	16	20.4	8.4	46	6.8	1024.3	6	015	02	0	0	1	1	6	0	0	81848				16	Cu hum	
17	84	1	34	06	11	18.8	6.6	45	6.0	1022.0	7	012	02	0	0	1	1	6	0	0	81840				17	Cu hum Absent vv&cld est	
18	80	1	05	06	13	17.0	6.1	48	5.8	1019.2	7	011	02	0	0	1	5	6	0	0	81640				18		
19	80	3	08	06	15	20.6	7.6	43	6.4	1019.3	8	012	03	1	1	3	4	6	0	1	83840				19	1Sc56 1Ci75 Cu med	
20	88	5	33	05	11	22.2	3.3	29	4.8	1019.7	7	012	02	1	1	1	1	7	0	4	81856	85075			20	COTRA Cu hum	
21	75	6	27	05	08	18.2	8.5	53	6.8	1015.9	7	010	15	9	8	2	2	5	6	3	82830	85068			21	1Ac63 Cu con jpNW T 1319-56	
22	80	7	03	07	14	16.9	7.0	52	6.2	1019.1	2	002	02	2	2	7	8	6	/	/	81835	87656			22	2Sc45 Cu med	
23	82	7	22	11	21	18.1	6.9	48	6.1	1018.1	6	010	02	2	2	4	4	6	0	1	83838	86078			23	2Sc50 Cu med U/a cont	
24	75	8	27	08	25	18.4	12.6	69	9.1	1011.9	0	000	50	2	2	7	8	5	1	/	85820	87635	88462		24	Cu med	
25	88	5	26	13	24	19.2	4.2	37	5.1	1011.4	2	010	02	1	1	5	4	7	0	0	85650				25	Absent vv&cld est	
26	84	7	25	06	28	17.1	8.5	57	6.9	1015.1	6	012	25	8	2	2	2	6	7	/	82839	86357			26	Absent vv&cld est	
27	70	8	23	09	22	16.1	14.8	92	10.5	1010.6	5	006	21	6	5	8	5	4	/	/	85712	86618	88625		27	Absent vv&cld est	
28	88	5	29	10	17	19.3	8.9	51	7.0	1018.5	2	016	02	2	2	4	4	6	0	1	82840	83078			28	2Sc56 COTRA Cu med Parhelion+czarc(part)	
29	86	7	24	10	20	23.2	14.2	57	10.0	1017.8	8	004	02	2	2	6	8	6	0	1	83835	84645	86080		29	Cu med	
30	86	7	24	07	13	22.4	13.7	58	9.7	1018.3	8	001	03	2	2	6	8	6	0	2	85835	83650	86077		30	Cu med	
31	88	7	23	07	17	25.0	11.6	43	8.4	1014.7	7	016	02	1	1	2	1	6	0	2	82845	87077			31	COTRA Cu hum	

Mean vis = 44.7 km

Mean cloud = 5.0 63%

Mean wind speed = 7.9 kn

Mean gust = 16 kn

Mean TT = 19.5 °C

Mean TdTd = 7.3 °C

Mean RH = 47.1 %

Mean r = 6.5 g/kg

Mean PPP = 1017.4 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

Cl = Type of low cloud (Code FM12-0513)

h = Height of low cloud (Code FM12-1600)

Cm = Type of medium cloud (Code FM12-0515)

Ch = Type of high cloud (Code FM12-0509)

8 groups. 8 = indicator for cloud detail

N = Amount of cloud, oktas

C = Type of cloud (FM12-0500)

hshs= Height of cloud (FM12-1677)

Remarks : COTRA = persistent condensation trails present

Wokingham Sunshine Hourly analysis	2025	Hour01-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
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	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	0.00
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	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	0.00
4	0.11	0.00	0.07	0.25	0.25	0.18	0.43	0.00	0.00	0.46	0.44	0.30	0.44	0.57	0.00	0.52	
5	1.00	0.61	1.00	0.97	0.65	0.67	1.00	0.00	0.00	1.00	1.00	0.15	0.06	1.00	0.00	1.00	
6	1.00	1.00	0.44	0.87	0.90	0.61	1.00	0.79	0.00	1.00	1.00	0.68	0.00	1.00	0.00	1.00	
7	1.00	1.00	0.81	0.42	0.60	0.91	0.93	0.40	0.00	1.00	1.00	0.54	0.61	1.00	0.00	1.00	
8	1.00	0.46	0.92	0.50	0.17	0.01	0.87	0.69	0.60	1.00	1.00	0.26	0.98	1.00	0.00	1.00	
9	1.00	0.86	0.61	0.77	0.00	0.00	0.91	0.92	1.00	1.00	1.00	0.33	0.88	1.00	0.00	1.00	
10	1.00	1.00	0.46	0.49	0.00	0.00	1.00	0.25	1.00	0.80	1.00	0.12	1.00	1.00	0.00	1.00	
11	0.69	1.00	0.25	0.35	0.00	0.11	0.98	0.15	0.94	0.99	0.84	0.01	0.99	1.00	0.00	1.00	
12	0.83	0.95	0.76	0.32	0.01	0.88	0.97	0.15	0.70	0.97	0.12	0.18	0.59	1.00	0.00	1.00	
13	0.59	0.63	1.00	0.32	0.19	1.00	0.75	0.32	1.00	1.00	0.10	0.99	0.90	1.00	0.00	1.00	
14	0.87	0.33	0.74	0.26	0.05	0.73	0.53	0.47	1.00	1.00	0.07	0.90	0.97	1.00	0.00	1.00	
15	0.66	0.86	0.47	0.13	0.51	0.37	0.28	0.82	1.00	1.00	0.77	0.92	0.65	1.00	0.00	1.00	
16	0.05	1.00	0.00	0.15	0.43	0.00	0.33	0.97	1.00	1.00	0.96	1.00	0.90	1.00	0.00	1.00	
17	0.55	1.00	0.01	0.00	0.32	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	
18	0.00	0.46	0.40	0.00	0.60	0.13	0.34	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	
19	0.00	0.07	0.34	0.00	0.36	0.00	0.03	0.46	0.51	0.49	0.34	0.49	0.50	0.49	0.00	0.59	
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	10.34	11.22	8.28	5.82	5.04	5.62	10.34	8.38	10.75	14.71	11.64	8.87	11.48	15.05	0.01	15.11	

	Hour17-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	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
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
4	0.00	0.00	0.00	0.56	0.00	0.52	0.50	0.00	0.03	0.18	0.04	0.48	0.00	0.00	0.00	0.20
5	0.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	0.89	0.60	0.24	0.21	0.00	0.00	0.00	0.49
6	0.00	0.00	0.09	1.00	0.00	1.00	1.00	0.00	0.45	0.14	0.02	0.93	0.00	0.00	0.43	0.53
7	0.00	0.01	0.05	1.00	0.00	0.99	1.00	0.00	0.12	0.58	0.01	0.82	0.00	0.50	0.94	0.56
8	0.56	0.01	0.02	1.00	0.00	0.83	1.00	0.00	0.42	0.50	0.00	0.98	0.21	0.91	1.00	0.58
9	0.60	0.63	0.17	1.00	0.00	0.98	0.96	0.00	0.45	0.02	0.00	0.85	0.31	0.83	0.90	0.61
10	1.00	0.90	0.38	1.00	0.00	0.59	0.76	0.01	0.27	0.01	0.00	0.30	0.46	0.79	0.62	0.56
11	0.99	0.62	0.75	1.00	0.10	0.31	0.46	0.10	0.63	0.00	0.00	0.07	0.02	0.94	0.48	0.51
12	1.00	1.00	0.31	1.00	0.09	0.26	0.53	0.14	0.36	0.43	0.00	0.15	0.02	0.02	0.54	0.49
13	1.00	1.00	0.43	1.00	0.26	0.17	0.67	0.02	0.37	0.24	0.00	0.47	0.23	0.35	0.25	0.56
14	1.00	0.97	0.52	0.84	0.50	0.10	0.32	0.02	0.41	0.04	0.00	0.03	0.27	0.35	0.44	0.51
15	1.00	1.00	0.76	0.67	0.41	0.15	0.30	0.00	0.60	0.01	0.00	0.87	0.36	0.07	0.72	0.56
16	1.00	1.00	0.53	0.41	0.11	0.97	0.71	0.00	0.98	0.00	0.00	0.94	0.34	0.06	0.46	0.56
17	1.00	0.59	1.00	0.66	0.78	0.11	0.35	0.00	0.99	0.00	0.00	0.96	0.88	0.30	0.34	0.58
18	0.96	1.00	1.00	0.22	1.00	0.04	0.12	0.00	0.95	0.00	0.00	0.71	0.17	0.14	0.91	0.55
19	0.74	0.18	0.39	0.00	0.74	0.00	0.00	0.00	0.84	0.00	0.00	0.24	0.17	0.06	0.09	0.26
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	10.85	8.91	6.42	12.37	3.98	8.02	9.68	0.29	8.75	2.73	0.30	9.01	3.42	5.31	8.10	250.86

May 2025	T mn	Tx	Time	Tn	Time	RHmn	RH x	Time	RH n	Time	Tdmn	r mn	r x	Time	r n	Time	p mn	p x	Time	p n	Time	R tot
1	18.05	28.5	1456	7.5	501	63.2	97.7	547	25.7	1258	9.3	7.2	10.0	1009	5.7	1258	1016.73	1020.6	0	1013.6	1727	0
2	17.82	24.8	1317	11.9	2357	69.4	90.9	456	44.9	1318	11.8	8.5	10.2	1130	7.0	2320	1015.22	1016.9	842	1013.9	1723	0
3	13.27	20.0	1246	6.0	2359	70.4	97.0	514	35.9	1309	7.5	6.4	7.8	945	4.9	1256	1014.64	1018.1	2359	1012.6	1341	0
4	9.59	15.7	1300	4.6	231	65.7	95.9	243	37.0	1342	3.0	4.7	5.5	1257	3.8	1342	1019.18	1021.8	2343	1017.9	24	0
5	8.67	15.3	1532	4.0	416	67.0	84.3	501	42.0	1817	2.6	4.5	6.1	1258	3.6	1821	1022.37	1025.3	2335	1021.2	333	0
6	9.18	17.2	1453	1.8	412	69.0	96.5	425	40.0	1326	3.3	4.7	5.7	1800	4.0	1016	1025.24	1026.4	1000	1023.9	1530	0
7	10.62	18.7	1347	2.8	445	70.4	98.8	503	42.6	1348	4.8	5.3	6.4	1205	4.5	445	1023.78	1025.6	559	1021.7	1620	0
8	11.51	18.4	1459	5.4	2345	64.5	85.9	2359	43.8	1501	4.7	5.2	6.2	1458	4.6	830	1021.06	1022.5	0	1019.6	1746	0
9	12.00	20.6	1501	2.9	359	61.9	97.9	429	24.5	1513	3.5	4.9	7.1	950	3.5	1320	1020.49	1021.7	750	1018.8	1705	0
10	14.58	23.6	1420	3.8	434	54.4	95.7	533	20.9	1409	3.7	4.9	7.4	858	3.6	1251	1017.13	1020.6	9	1014.2	1705	0
11	16.82	25.6	1601	6.1	428	59.1	96.7	2358	29.5	1602	7.7	6.6	9.3	2356	5.0	7	1010.22	1014.8	0	1007.3	1543	2.3
12	16.34	22.3	1227	10.4	2356	77.4	99.2	634	46.6	1537	11.8	8.6	10.9	750	6.8	1908	1011.42	1015.4	2332	1008.5	54	3.8
13	16.37	25.6	1500	8.7	2353	65.5	98.6	521	28.8	1441	8.8	7.0	9.4	1035	5.0	2110	1017.49	1020.5	2242	1015.2	0	0
14	14.71	24.1	1342	5.4	440	61.1	91.3	442	28.8	1447	6.4	5.9	7.4	1201	4.9	1447	1021.42	1024.3	2359	1020.1	1542	0
15	11.02	14.2	1239	6.0	252	72.6	96.5	303	58.5	1702	6.1	5.8	6.6	1237	5.2	1936	1025.47	1027.6	2359	1023.9	335	0
16	12.95	21.2	1417	4.4	418	67.8	98.7	457	33.9	1340	6.2	5.8	7.1	1500	4.8	1335	1025.85	1027.9	743	1023.4	1826	0
17	13.39	19.4	1447	8.0	2353	63.9	93.9	2357	41.8	1448	6.3	5.8	7.0	1123	5.3	1423	1023.06	1024.9	0	1021.1	1809	0
18	12.69	19.0	1507	6.1	236	69.9	98.0	249	42.7	1511	6.8	6.1	7.0	1151	5.4	1109	1020.53	1022.0	45	1018.6	1701	0
19	13.96	21.7	1554	7.7	2352	66.9	91.3	239	34.4	1554	7.4	6.3	7.9	1202	5.3	1544	1020.47	1021.8	842	1018.8	1624	0
20	14.43	23.1	1433	4.6	410	60.7	98.0	504	26.8	1435	5.6	5.6	6.9	1105	4.3	1400	1020.52	1022.5	747	1018.4	2349	0
21	14.02	20.0	1512	7.5	2359	70.7	93.8	815	46.9	1809	8.5	6.9	8.5	1001	5.3	2025	1017.36	1018.8	2328	1015.4	1555	1.5
22	11.62	18.6	1431	4.6	419	71.5	98.4	456	48.2	1432	6.2	5.8	7.2	1257	5.1	2241	1019.49	1021.6	2358	1018.4	248	0
23	12.88	20.6	1321	3.1	403	67.6	98.4	513	33.7	1213	6.2	5.9	8.0	2310	4.6	1144	1019.25	1021.6	122	1016.0	2359	0
24	16.29	21.2	1402	12.4	321	80.1	98.2	542	57.9	1302	12.7	9.1	10.6	814	7.3	109	1012.15	1016.2	0	1008.6	2307	4.4
25	15.88	20.1	1332	11.2	2357	61.3	94.3	307	31.3	1628	7.7	6.7	9.7	307	4.2	1628	1010.33	1015.0	2359	1006.6	307	0.3
26	14.24	20.4	1341	10.2	346	68.8	85.1	2359	42.8	1342	8.4	6.8	8.2	2359	5.7	1032	1015.25	1017.1	808	1011.8	2329	0.2
27	14.50	16.3	1510	12.4	402	90.5	96.9	2359	71.9	851	12.9	9.3	10.8	1328	7.5	853	1011.66	1013.7	819	1010.1	1556	6.3
28	16.82	21.8	1541	13.3	552	65.9	97.3	35	42.5	1647	10.0	7.6	10.0	17	6.3	1647	1016.67	1021.8	2142	1011.4	146	0.3
29	18.47	24.8	1519	12.9	406	73.1	93.5	549	52.0	1519	13.3	9.4	11.0	1128	7.1	2	1018.90	1021.3	8	1017.3	1634	0.4
30	18.96	24.7	1358	14.6	452	71.6	92.5	318	46.5	1155	13.3	9.4	10.2	1043	8.3	1213	1018.98	1020.2	710	1017.9	1754	0
31	19.29	25.6	1503	13.8	335	68.6	96.8	342	41.6	1605	12.8	9.1	10.2	1253	7.4	2335	1016.24	1018.9	0	1013.3	1813	0
Total																						19.5
Mean	14.22	21.06		7.55		68.1	95.10		40.15		7.72	6.64	8.27		5.35		1018.34	1020.89		1016.12		
Max	19.29	28.54		14.61		90.5	99.22		71.94		13.33	9.41	10.99		8.26		1025.85	1027.86		1023.93		
Min	8.67	14.20		1.82		54.4	84.26		20.90		2.61	4.53	5.47		3.46		1010.22	1013.70		1006.60		

Wokingham Automatic Weather Station

AWS samples taken every 0.5 seconds

x and n refer to maximum and minimum respectively

Readings taken at Wokingham Climatological Station, Emmbrook, Berkshire

Lat 51.425 N, Long 0.853 W, NGR (SU) 798701

Altitude 45 m ASL.

Tmn = 00 to 24 GMT mean air temperature at 1.2 m, deg C

RHmn = 00-24 GMT mean relative humidity at 1.2 m, percent

TDmn = 00-24 GMT mean dew point at 1.2 m, deg C

rmn = 00-24 GMT mean humidity mixing ratio, g/kg

pmn = 00-24 GMT mean air pressure reduced to mean sea level, mbar

Time = hours and minutes in GMT of extreme values

Temperature and humidity are from an aspirated Vaisala HMP45 unit

Pressure is from a Setra CS100 sensor

Data is logged on a Campbell Scientific CR10X measurement and control system

R tot = Rainfall from TBR, uncorrected

WOKINGHAM METEOROLOGICAL DATA

Wokingham Climatological Station, Emmbrook, Berkshire.

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

Seasonal Means and Totals

SPRING 2025

Temperature (°C)									Rank in the past 144 years
Mean maximum	17.8	(+3.0)							*Highest*
Mean minimum	5.0	(-0.2)							36th highest
Daily mean	11.4	(+1.4)							*Equal Highest*
Rainfall total (mm)	43.9	(33%)							4th lowest
Sunshine total (hours)	701.5	(143%)							
N° of:									
Dry days	72	(+17)							Wet days 11 (-15)
Days with:									
Air frost	12	(+2)							Ground frost 46 (+11) Snow falling 0 (-3) Snow lying 0 (0)
Thunder	1	(-3)							Hail ≥5mm 0 (-1) Small hail/ice 2 (-3) Fog @09 GMT 2 (+1) Nil sun 1 (-8)
Air pressure MSL : Mean @09 GMT (mbar)	1018.3	(+2.3)							

Departure from 1991 to 2020 average shown in brackets.

Notes: **Very Warm, Very Dry, Very Sunny.**

Temperature: In terms of the overall mean temperature, this is the equal warmest spring with 2024 in the past 144 years, despite the mean minimum being slightly below average, and ranking 26th highest in the same period. The mean maximum, though, is a new record, 0.4° above the previous highest set as long ago as 1893. Each of the months this spring had a similar temperature structure to each other and to the season as a whole, with the mean maxima well above average and mean minima near or below average. Monthly mean temperature followed the normal trend with March the coolest month and May the warmest, though April had the largest anomaly of +1.9°, then May with +1.4°, and March with +0.9°. The season's highest maximum was 27.8° on the 1st May, 2.3° above the median, and the lowest max was 8.2° in the 17th March, 3.7° above its median. The highest min was 14.6° on the 3rd May, 2.0° above the median and the lowest was -3.7° on the 3rd March, 0.4° above its median. The mean grass min was 1.0°, anomaly -0.6°, and the lowest was -8.2° on the 16th March. The mean earth temperature at 30cm depth was 11.0°, anomaly +0.7°, and at 1m depth, 10.3°, anomaly +0.5°. There were 11 more ground frosts than average, but there have been 3 springs in this millennium that had 3 more than this year's. The duration of air frost, 82.0 hours, is 28.1 hr above average. **Rainfall:** The total this spring is extremely low, the 4th driest spring in 144 years, though there was a drier one as recently as 2011, the 2 other drier springs were in 1990 and 1893, this latter the record holder with just 27.8 mm. May was the wettest month with 24.0 mm, anomaly 54%, then April with 13.5 mm, anomaly 28%, then March with 6.4 mm, anomaly 15%. The season began with a dry spell in progress which ended on the 8th March, but after only 1.5 mm over the next 12 days another dry spell commenced on 28th March and ended on the 12th April. A new dry spell of 18 days started on the 23rd April, but was broken by just one wet day, after which another spell of 8 days commenced. The duration of measurable rain, 37.4 hr, is 31% of average, lowest for spring since 2011 and 2nd lowest since before 1994. The highest rainfall rate was 31 mm/hr on the 11th May. Thunder was recorded on the 21st May, and snow pellets fell on the 12th and 13th March. Estimated soil moisture deficit increased steadily through the season, passing the 100 mm mark by 10th May. An index of severe stress for shallow rooted plants gives a value of 361 this spring, the highest value for the spring season since before 1976, the spring of 1997 being the only other to have an index over 300 in that period. **Sunshine:** Not quite the sunniest spring on record, that accolade stays with 2020, but it is the 2nd sunniest, with 43% more sunshine than average. Each of the season's months had a surplus of sunshine. Compared with average March had 156%, April 150% and May 129%. April, though, had a slightly higher daily mean than May, 8.50 hr against 8.09 hr. There were several long sunny periods, March 30th to April 12th stands out with a 14 day total of 161.9 hours, only 9 hours less than the average for the whole of April. Also the 11 day period ending on the 17th May had a daily mean of 10.66 hr, despite the only day with nil sun in the whole of spring being on the 15th. Overall there were 19 days with <3 hours, 58 with =>6 hours and 16 with =>12 hours. **Wind:** The overall mean speed of 5.8 mph is 1.2 mph below average and lowest for spring since before 1988. The windiest day was the 16th April, mean speed 12.6 mph, and the season's highest gust was 39 mph also on that day. The least windy day was the 3rd March, mean 1.4 mph. Daily mean direction/number of days: N,15 NE,21 E,19 SE,8 S,3 SW,16 W,7 NW,3. Compared with average, winds from S through to NW combined were 26 % less frequent and those from N through to SE combined were 26% more frequent. **Pressure:** The season's highest MSL pressure was 1037.1 mbar on the 1st March and the lowest was 994.4 mbar on the 15th April, span 42.7 mbar, average 52.9 mbar. **March:** Record sunshine and very dry with above average temperature. Mean maximum 3rd highest in 144 years. Mean daily temperature range highest for March in at least 50 years. Lowest March rainfall since 1961. Sunniest March in this millennium. Daily mean sunshine 0.06 hr more than the average for May. **April:** Very warm, very dry and very sunny. Daily mean temperature 3rd highest in 144 years. Mean daily temperature range 2nd highest for April in past 50 years. Highest max is 5th highest in 122 years, but lowest max is highest in 113 years. 4th driest April in this millennium. 2nd sunniest in the same period. **May:** Very warm with sunshine above, and rainfall below, average. Mean maximum 2nd highest for May in 144 years, daily mean 4th highest. 3rd consecutive dry month and 3rd consecutive month with sunshine well above average.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Mean Wind mph	Max gust	Mean pressure	Anom
March	14.4°	+2.8°	2.2°	-1.0°	6.4	15%	195.6	156%	5.2	28	1018.1	+2.8
April	18.4°	+3.6°	4.9°	+0.2°	13.5	28%	255.1	150%	5.9	39	1018.1	+3.1
May	20.6°	+2.5°	8.0°	+0.3°	24.0	54%	250.8	129%	6.3	31	1018.8	+2.3

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 2020. 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 July 1999, in the type of instrument used to detect sunshine amount, 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, due to a combination of faster reaction and higher sensitivity than the old type. The average used in this case is based on a theoretical equivalent 1981 to 2010 average, drawn from comparison with the Met Office published tables of departure from 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 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 '(max + min) / 2'. A true daily 24 hour (00 to 24 GMT) mean temperature is available from the Automatic Weather Station (AWS), and is currently published on page 7 of the Wokingham Monthly Weather report, on the Wokingham Weather web site, page 1. <http://www.woksat.info/wwp1.html>

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

- a): The departure of a mean from the current climatological average.
- b): The departure of a value on a particular day from the average for that day, (this need not be a climatological average).

When the word anomaly is used in respect of temperature, any values given are in °C. In respect of rainfall or sunshine, percent. In respect of wind, mph. In respect of 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 cold/mild are used in the winter half year, and cool/warm in the summer half. The term 'normal' is used 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 of these terms follow the same rules as for temperature.

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

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

Wet: The value lies between 10 % and 30% of the highest value in the ranked series.

Very wet: The value lies within 10 % of the highest value in the ranked series.

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

Very dry: The value lies 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 records of various weather stations in the Wokingham area in the years prior to the establishment of the weather station at Emmbrook in 1976 together with data from this station.

In the case of monthly max, min and mean temperature and of rainfall total the series starts in 1882. For temperature extremes, the highest max and lowest min go back to 1904, and 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 series, and may be expressed relative to either the highest or lowest value in the series. The central value in the ranked series is known as the **median**. This value may be different from the average of the whole series if the population is skewed. It can also be different from the climatological average which only refers to a 30 year period.

Month: Calendar month.

Season: Spring, March to May.

Summer, June to August

Autumn, September to November

Winter, December to February.

When discussing 'winter', if a single year is given this refers to the year in which the January/February fall.

Annual or Year: The calendar year, 1st January to 31st December.

The climatological day: runs from 0900 to 0900 GMT. The max temperature and rainfall read at 0900 hours are attributed to the previous day (thrown back), as is the duration of measurable rain. The min temperature and grass min read at 0900 hours are attributed to the day of reading. Pressure read at 0900 GMT, and the monthly mean pressure is the mean of the 0900 GMT readings. Sunshine data, wind data, rainfall rate data and 24 hour data from the AWS use the normal 00-24 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% snow cover at the 0900 GMT observation.

Snow depth is the depth of undrifted snow. Snow that collects in the raingauge funnel is melted and the amount recorded as rainfall.

Hail: A day of hail is recorded if hailstones 5 mm or more in diameter are observed or recorded on the hail pad in 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. The term small hail also includes various other types of ice meteor such as ice pellets, snow grains and some types of snow pellets.

Fog: A day with 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. The appearance of lightning without thunder being heard does not qualify as a thunder day.

Trace of rainfall: A trace of rain, entered as 'tr' in the daily log, is recorded if rain is observed to fall but is of insufficient quantity to collect in the raingauge, or if the amount of rain in the gauge is less than 0.05 mm.

Dry spell: A dry spell is defined as a period of 5 or more consecutive dry days.

Dry day: A dry day is one with less than 0.2 mm of rainfall.

Rain day: A rain day is one with 0.2 mm or more of rainfall.

Wet day: A wet day is one having 1.0 mm or more of rainfall.

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 or 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 or 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.