

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

FEBRUARY 2025

Temperature (°C)		Anomaly	Rank in the past	144	years				
Mean maximum	8.8	0.0	53rd highest						
Mean minimum	1.8	-0.1	57th highest						
Daily mean	5.3	-0.1	59th highest						
Highest maximum	15.2	on 21st	Lowest maximum	3.9	on 10th				
Highest minimum	11.4	on 21st	Lowest minimum	-3.4	on 17th				
Mean grass minimum	-1.0	+0.3	Lowest grass minimum	-7.7	on 17th				
Mean earth @30 cm	5.9	+0.3	Earth @100 cm	6.8	-0.3				
Frost duration (hrs)	61.9		Rain duration (hrs)	55.3					
Rainfall total (mm)	64.2	136%	33rd highest						
Highest daily fall	14.8	on 23rd	Highest rate mm/hr	38	on 26th				
Number of: Dry days (<0.2mm)	15	Wet days (>0.9mm)	10	days ≥5mm	6				
Sunshine total (hrs)	83.0	Daily mean	2.96	98%	Sunniest day	9.3	on 17th		
N° days with: Air frost	9	Ground frost	16	Snow falling	0	Snow lying	0		
Thunder	0	Hail ≥5mm	0	Small hail/ice	2	Fog @09	0	Nil sun	9
Pressure MSL: Mean @09 GMT, mbar	1021.9	+5.2	Highest	1044.6	on 6th	Lowest	1005.9	on 21st	
Relative humidity: Mean (%)	87.0	Lowest	44	on 18th	Water vapour (g/kg), mean at 09 and 15 GMT	4.8,	4.9		
Overall mean wind speed (mph)	6.1	Windiest day	11.1	on 23rd	Max gust	40	on 21st		
Wind direction (days)	N 4	NE 7	E 2	SE 2	S 3	SW 5	W 2	NW 3	
Least windy day (mph)	3.1	on 28th	Calm; less than 0.5 mph (minutes)			51			

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

Notes:

Temperature and Sunshine Near, and Rainfall Above, Average

Temperature: This has been a February with the mean temperature very close to the current 30 year climatological average, but 0.5° above the 144 year median. It is coolest since 2018, but in this millennium 8 other February months have been cooler. In the past 50 years, the coldest February was 1986, with a mean temperature of -1.1°, 6.4° lower than this month. The highest maximum this February is 2.1° above the median and the lowest max is 1.5° above its median. The highest min is 3.3° above the median and 4th highest in 113 years while the lowest min is 1.4° above its median. The mean grass min is lowest since 2019 but the lowest daily value is 2.6° above average and is lowest only since 2023. Earth temperature at 30 cm depth is slightly above average but at 1 m depth is slightly below average. The number of days with air frost and with ground frost are close to average, but the duration of air frost was 22.3 hours less than average. Anomalies for daily max and daily min were near or below normal until the 18th, then mainly above, with a mild spell. Extreme anomalies for max were +7.3° on the 21st and -3.8° on the 7th, and for min +10.2° on the 21st and -5.7° on the 6th. **Rainfall:** The rainfall total this February indicates quite a wet month, though nearly all the rain fell during 2 wet episodes, 7th to 9th and 21st to 26th. Only 0.5 mm fell before the 7th, and 7 of the 10 days to the 20th were dry. In this millennium there have been 8 wetter February months, including that of 2024 when 120.1 mm fell, making it the 2nd wettest in the 144 year series. This month the number of dry days is average, but there were 3 more days with =>5mm than average. There was no snow, the last February to have any was in 2021. There was no thunder, but ice pellets fell on the 7th and 26th. Daily rainfall accumulation compared with normal was 11 mm in deficit on the 20th but became 21 mm in surplus by the 26th. **Sunshine:** The total this February is just 2% below average, but the daily mean is 1.03 hours more than in the same month last year. Daily accumulation was close to normal on the 6th, with 2 days having over 80% of the maximum, but from the 7th to the 16th 7 days had nil sun and only one had >30%, leaving a deficit of 17 hours. Over 80% of the maximum on the 17th, 18th and 27th brought the deficit close to zero by the 28th. **Wind:** The mean speed of 6.1 mph is 2.0 mph below average, but is lowest only since 2023. The months highest gust is 8 mph below average. Daily mean speeds were light or moderate, except for fresh on the 7th, 20th, 21st and 23rd, and very light on the 11th. Daily mean direction was between N and E on the 6th to 13th and 16th to 19th, between E and S on 1st, 2nd, 14th and 15th, between W and N on 27th and 28th, otherwise between S and W. **Pressure:** The month's highest pressure, 1044.6 mbar, on the 6th, is 8 mbar above average and the 2nd highest February pressure in the past 50 years after 1047.3 mbar in 2023.

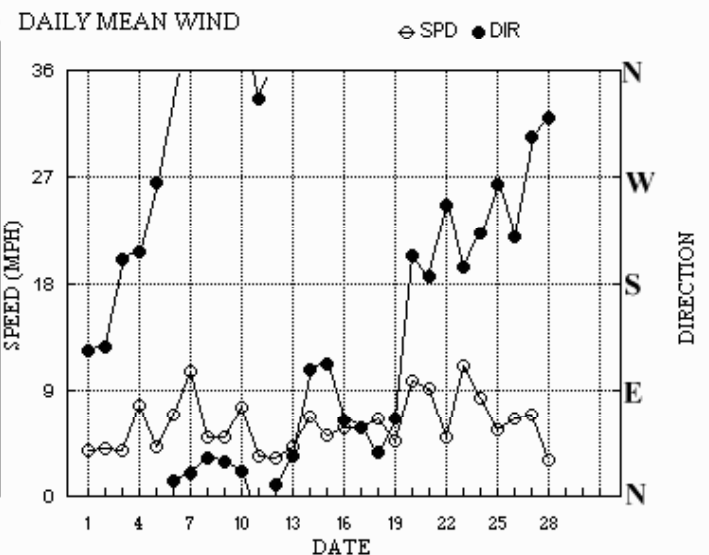
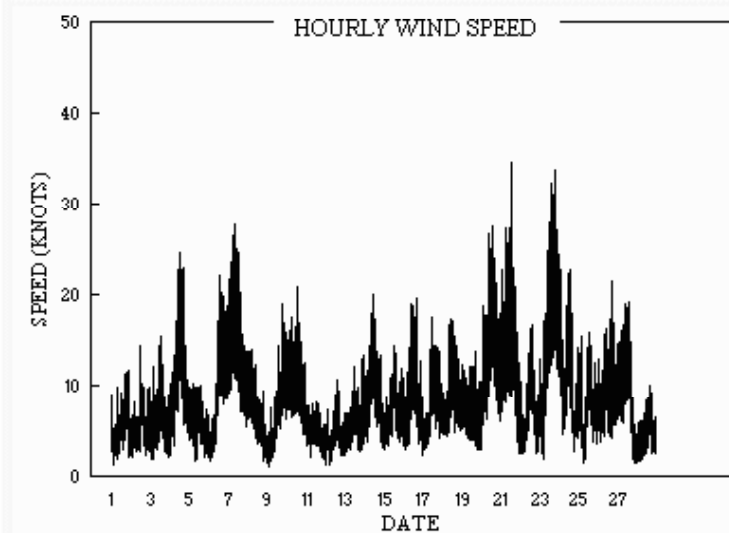
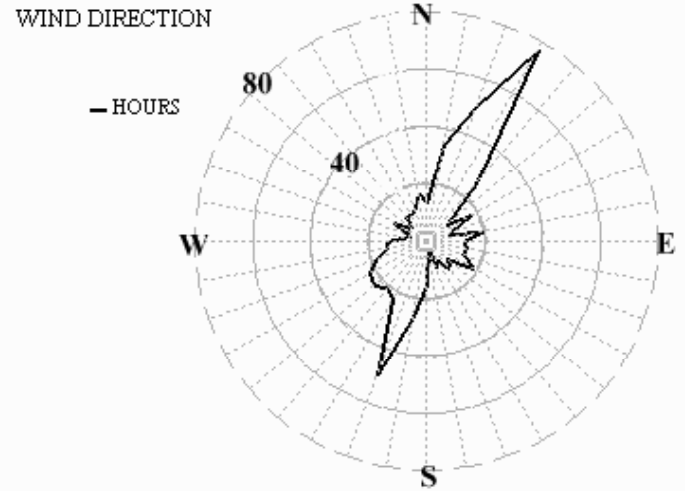
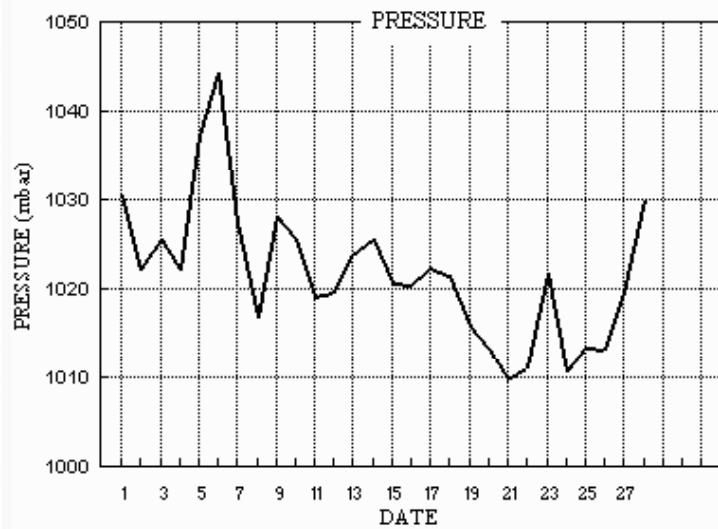
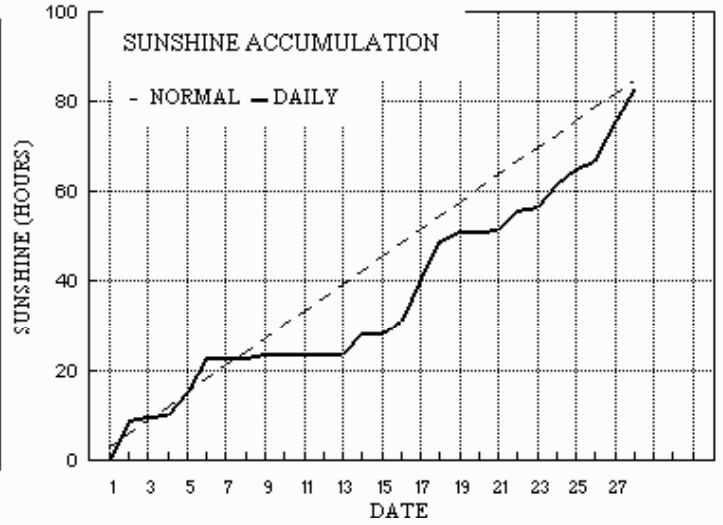
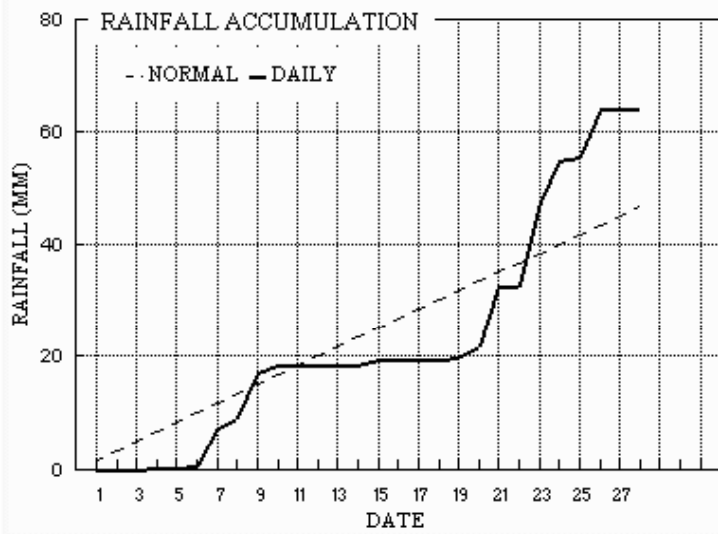
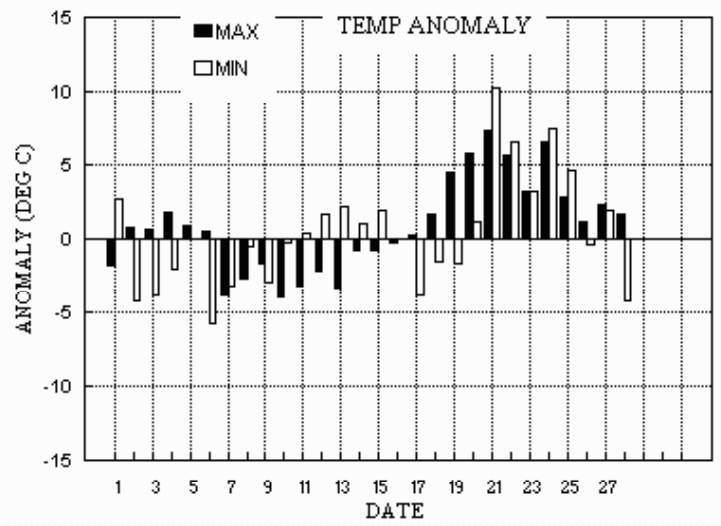
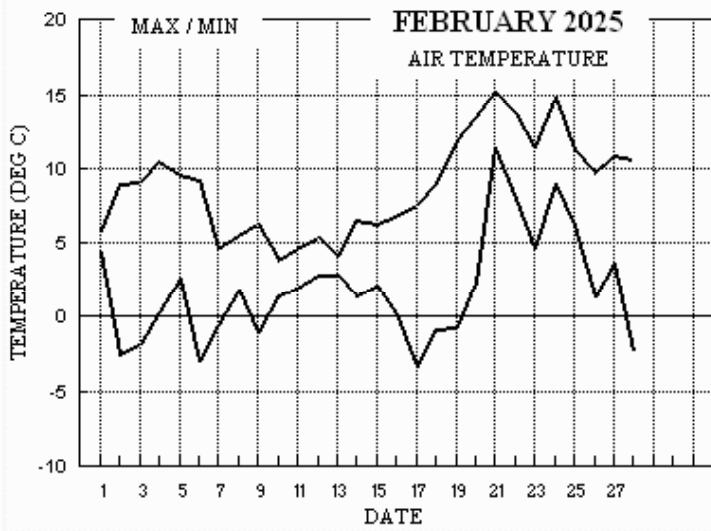
Table 1. Mean anomalies (max, min, rain, sun) for specified periods.

From the 1 st to the 9 th				From the 10 th to the 18 th				From the 19 th to the 28 th			
-0.6°	-2.2°	114%	86%	-1.4°	+0.2°	18%	92%	+4.1°	+2.9°	269%	112%

B J Burton FRMetS.

Hon. Met. Officer to Wokingham Town Council.

Wokingham climatological graphs for February 2025



Month: FEBRUARY 2025

Date	Max C	Min C	Rain mm	Grass Min	30cm C	100cm C	Sun hrs	Frost hrs	pp09 mbar	Af Gf	Sf Sl	Th Ha	Ic Fg	Vec ddd	mean ff	sp	Max gust ddd	gg	HHhh	High hr ddd	ff	Rain HH	hrs
1	5.8	4.4	tr	3.8	6.1	7.1	0.0	0.0	1030.4	0	0	0	0	124	3.0	3.3	158	12	2032	139	6	19	0.0
2	8.9	-2.5	0.0	-7.0	6.0	7.1	8.8	9.8	1022.3	1	1	0	0	126	1.7	3.5	193	14	1158	166	6	12	0.0
3	9.1	-1.9	tr	-6.2	5.2	7.1	1.2	2.6	1025.5	1	1	0	0	200	2.8	3.4	192	16	1216	188	7	12	0.0
4	10.5	0.3	0.4	-4.2	5.2	7.0	0.2	0.0	1022.1	0	1	0	0	207	6.5	6.7	208	25	1336	201	12	13	0.3
5	9.6	2.6	0.0	-2.7	5.7	6.9	5.1	0.3	1037.2	0	1	0	0	265	2.6	3.6	200	10	0548	231	5	03	0.0
6	9.2	-3.0	0.1	-7.1	5.4	6.9	7.7	9.1	1044.4	1	1	0	0	13	5.8	6.0	22	22	1440	10	9	16	0.2
7	4.6	-0.6	7.0	-3.3	4.9	6.8	0.0	0.0	1027.6	1	1	0	0	20	9.2	9.2	15	28	0829	19	13	10	8.8
8	5.5	1.8	1.4	1.9	5.0	6.7	0.0	0.0	1016.8	0	0	0	0	32	3.7	4.3	17	14	0539	27	7	03	3.3
9	6.3	-1.1	8.3	-5.3	5.2	6.6	0.7	5.4	1028.2	1	1	0	0	29	4.4	4.4	22	19	1957	32	8	22	9.0
10	3.9	1.4	1.3	1.9	5.3	6.6	0.0	0.0	1025.6	0	0	0	0	21	6.5	6.6	25	21	1419	20	8	15	3.1
11	4.6	1.9	tr	0.5	5.3	6.6	0.0	0.0	1019.2	0	0	0	0	335	2.8	3.0	316	8	1247	307	4	12	0.2
12	5.4	2.8	tr	2.3	5.4	6.5	0.0	0.0	1019.6	0	0	0	0	11	2.7	2.8	16	11	1324	18	5	13	0.1
13	4.1	2.9	0.0	2.3	5.5	6.5	0.0	0.0	1023.9	0	0	0	0	35	3.3	3.7	122	14	2230	87	6	22	0.0
14	6.5	1.5	tr	-1.2	5.4	6.5	4.8	0.0	1025.5	0	1	0	0	107	5.5	5.9	89	20	1014	135	9	13	0.0
15	6.3	2.1	1.0	1.0	5.4	6.5	0.0	0.0	1020.6	0	0	0	0	112	4.2	4.5	155	15	1307	143	8	13	2.1
16	6.8	0.1	0.0	-3.4	5.6	6.5	2.6	0.0	1020.4	0	1	0	0	64	4.9	5.0	67	20	1616	53	8	14	0.0
17	7.5	-3.4	0.0	-7.7	5.2	6.6	9.3	11.3	1022.5	1	1	0	0	58	4.1	5.0	120	18	1127	107	8	13	0.0
18	8.9	-0.8	0.0	-5.1	4.7	6.5	8.6	7.7	1021.6	1	1	0	0	38	4.8	5.7	45	18	1100	106	7	13	0.0
19	11.9	-0.7	0.4	-5.1	4.6	6.4	2.0	5.0	1015.8	1	1	0	0	66	1.8	4.1	165	14	1714	27	6	02	0.7
20	13.4	2.3	2.0	4.5	5.2	6.3	0.0	0.0	1013.2	0	0	0	0	203	8.3	8.5	207	28	1345	211	13	13	1.2
21	15.2	11.4	10.6	10.9	6.4	6.3	0.5	0.0	1009.9	0	0	0	0	186	7.9	8.0	190	35	1204	189	13	12	8.5
22	13.7	7.9	0.0	3.7	7.6	6.5	4.3	0.0	1011.1	0	0	0	0	247	4.1	4.4	244	17	1429	233	8	15	0.0
23	11.4	4.6	14.8	-1.3	7.4	6.8	0.6	0.0	1021.8	0	1	0	0	193	9.5	9.6	185	34	2013	190	14	17	11.2
24	14.8	8.9	7.5	8.2	7.8	7.1	5.0	0.0	1010.7	0	0	0	0	222	7.0	7.2	210	23	0039	202	11	01	3.1
25	11.2	6.1	0.6	1.2	8.0	7.3	3.4	0.0	1013.4	0	0	0	0	264	4.4	4.9	273	16	1333	298	8	12	0.4
26	9.7	1.3	8.8	-3.6	7.5	7.5	1.9	0.0	1013.2	0	1	0	0	219	5.1	5.8	334	22	1605	172	8	09	3.1
27	10.9	3.6	0.0	-0.9	7.0	7.5	9.2	0.4	1019.7	0	1	0	0	304	5.3	6.1	312	19	1306	315	9	10	0.0
28	10.6	-2.4	0.0	-6.5	6.6	7.5	7.1	10.3	1030.1	1	1	0	0	319	2.2	2.7	6	10	1539	356	5	16	0.0
Total			64.2				83.0	61.9															55.3
Mean	8.8	1.8		-1.0	5.9	6.8	2.96	2.2	1021.9														
Anom	-0.0	-0.1	136%	+0.3	+0.3	-0.3	98%																+5.2
Daily mean		5.3																					
Anom		-0.1																					
Number of days with:																							
Air frost = 9																							
Ground frost = 16																							
Nil sun = 9																							
Snow falling = 0																							
Snow lying = 0																							
Thunder = 0																							
Hail=>5mm = 0																							
Hail<5mm or ice = 2																							
Fog at 09GMT = 0																							

Abbreviations.

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

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

Grass min = Lowest overnight temperature at grass tip level.

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

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

Af = Air frost. Gf = Ground frost. Sf = Snow falling. Sl = Snow lying at 09 GMT.

Th = Thunder. Ha = Hail =>5mm. Ic = Hail <5mm or ice. Fg = Fog at 09 GMT.

Vec mean = 24 hour mean wind vector, ddd = direction in degrees from true north, ff = speed in knots.

Sp = 24 hour mean wind speed in knots.

Max gust = Highest gust in 24 hours, gg = speed in knots, HHhh = Time, hours and minutes, GMT.

High hr = Highest hourly mean wind, HH = hour commencing. Rain Hrs = Duration of rain, 24 hours to 09 GMT. Excludes snow/hail.

30cm and 100 cm are earth temperatures at those depths, read at 09 GMT.

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 FEBRUARY 2025

Date	VV	N	dd	ff	gg	TT	Td	Td	RH	r	PPP	a	ppp	ww	W1	W2	Nh	Cl	h	Cr	Ch	shs	NChs	NChs	NChs	Date	Remarks
1	84	8	11	02	05	4.8	3.3	90	4.7	1030.4	2 006	21	6	2	8	5	4	/	/	83613	88616						
2	30	3	02	03	06	-1.3	-1.3	100	3.4	1022.3	2 011	10	0	0	2	5	4	0	1	82615						2	2Ci80 Hoar thk Gnd frzn
3	50	8	21	03	08	4.8	4.1	95	5.0	1025.5	3 008	10	2	2	8	5	5	/	/	88621						3	
4	82	7	20	08	17	8.4	6.2	86	5.8	1022.1	5 001	02	6	2	7	8	4	/	/	84815	87628					4	Cu fra/hum
5	59	7	20	01	05	3.2	2.9	98	4.6	1037.2	2 021	10	1	1	0	0	9	0	6	83273	87278					5	COTRA Hoar slt
6	56	0	35	02	08	-0.7	-0.7	100	3.5	1044.4	0 005	10	0	0	0	0	9	0	0							6	Hoar thk Gnd frzn
7	65	7	04	12	28	3.6	1.0	83	4.0	1027.6	7 025	21	6	2	7	5	4	/	/	82615	83640	87650				7	
8	22	8	03	05	12	3.8	3.7	99	4.9	1016.8	3 011	10	5	2	8	7	2	/	/	87705	88707					8	
9	35	7	02	04	08	1.3	1.2	99	4.1	1028.2	2 022	21	6	1	4	5	7	7	1	81645	84656	86075				9	2Ac58
10	40	8	03	07	15	3.5	2.3	92	4.4	1025.6	8 007	21	6	2	7	5	4	/	/	86612	88620					10	
11	56	8	32	04	08	3.2	1.9	91	4.3	1019.2	0 002	05	2	2	8	5	3	/	/	87709	88615					11	
12	50	8	01	03	05	3.5	2.6	94	4.5	1019.6	1 007	05	2	2	8	8	4	/	/	81818	88627					12	Cu fra/hum
13	56	8	02	04	08	3.3	1.3	87	4.1	1023.9	1 011	05	2	2	8	5	4	/	/	85617	88625					13	
14	61	7	11	09	18	2.9	-3.2	64	2.9	1025.5	2 007	01	2	2	6	5	5	3	/	86526	85365					14	
15	56	8	13	05	11	4.5	0.8	77	4.0	1020.6	5 001	60	6	2	1	5	4	2	/	81618	88530					15	
16	57	8	08	06	14	2.9	0.8	86	4.0	1020.4	1 009	05	2	2	8	5	4	/	/	87615	88630					16	
17	57	3	06	04	08	0.4	-1.8	85	3.3	1022.5	1 006	05	0	0	1	0	9	4	1	81369	83080					17	COTRA Hoar mod Gnd frzn
18	50	5	04	08	14	2.3	-2.2	72	3.2	1021.6	8 002	05	2	2	3	0	9	3	1	83360	85081					18	COTRA Hoar slt
19	50	7	06	05	10	2.2	0.3	87	3.8	1015.8	1 005	05	2	2	1	0	9	7	6	81463	83272	87075				19	1Ac67 COTRA Hoar slt
20	50	8	20	10	23	11.9	11.3	96	8.3	1013.2	6 002	50	5	2	8	5	2	/	/	87705	88612					20	
21	70	7	18	11	26	13.4	11.1	86	8.2	1009.9	7 016	01	6	2	3	5	4	8	/	81710	83640	86357				21	7Ac63 Ac cas
22	61	8	25	05	08	9.7	9.2	97	7.2	1011.1	2 026	02	2	2	8	0	9	2	/	88465						22	
23	65	8	19	09	18	9.4	7.0	85	6.2	1021.8	0 000	03	1	1	3	6	4	5	7	83712	86365	88270				23	
24	70	7	21	06	13	9.6	9.1	97	7.2	1010.7	1 006	61	6	6	3	5	3	8	/	81708	83656	87358				24	1Sc33 Ac cas
25	86	7	25	03	05	7.3	5.9	91	5.8	1013.4	2 015	01	6	2	1	5	7	1	/	81650	87461					25	As edge NW
26	50	8	18	08	16	6.5	5.3	92	5.5	1013.2	7 028	62	6	2	1	5	5	2	/	81620	88530					26	
27	88	2	32	10	17	5.8	1.5	74	4.2	1019.7	2 032	02	0	0	2	8	4	0	0	81818						27	2Sc28 Cu hum
28	30	1	26	04	07	2.6	2.2	97	4.4	1030.1	2 014	40	0	0	1	6	0	0	0	81701						28	jf W-NW VV10k E-S Hoar mod in shade

Mean vis = 14.5 km

Mean cloud = 6.5 81%

Mean wind speed = 5.8 kn

Mean gust = 12 kn

Mean TT = 4.7 °C

Mean TdTd = 3.1 °C

Mean RH = 89.3 %

Mean r = 4.8 g/kg

Mean PPP = 1021.9 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

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 FEBRUARY 2025

Date	VV	N	dd	ff	gg	TT	TdTd	RH	r	PPP	a	pppww	W1W2	NhCl	hCrCl	NChshs	NChshs	NChshs	Date	Remarks					
1	65	8	15	04	09	5.7	3.9	88	4.9	1028.4	6	015	20	5	2	8	5	4	/ /	86611	88615	1			
2	80	1	15	06	10	7.9	1.3	63	4.1	1021.4	7	009	02	0	0	0	0	9	0	8	81278	2	Cs edge NW		
3	50	7	18	06	12	8.5	7.3	92	6.3	1023.6	7	014	20	5	6	7	5	2	/ /	86705	87610	3	/Sc25 jpNW&SE		
4	78	8	20	09	23	9.7	6.4	80	5.9	1021.1	6	004	03	2	2	8	5	4	/ /	87615	88622	4			
5	82	8	29	04	08	8.8	2.6	65	4.4	1039.5	2	007	03	2	2	1	1	5	1	7	81825	84468	88272	5	Cu fra. Halo 22° part
6	81	3	05	09	22	6.6	1.7	71	4.2	1041.0	7	019	03	0	0	3	8	5	0	0	83825	6	1Sc40 Cu med		
7	20	8	04	06	20	2.0	1.9	99	4.3	1021.1	6	034	79	6	7	8	7	3	2	/	86708	88515	7	rain+ice pel 2-3 mm	
8	25	8	03	03	08	5.4	5.3	99	5.5	1018.4	3	010	51	6	5	8	7	2	/ /	87704	88705	8			
9	60	7	05	06	14	5.6	4.1	90	5.0	1028.7	5	001	05	5	2	7	5	4	/ /	87612	9	/Sc35			
10	57	8	02	07	15	3.6	1.6	87	4.2	1022.1	7	022	21	6	2	8	5	4	/ /	87615	88625	10			
11	56	8	36	03	08	4.4	2.7	89	4.6	1018.0	7	011	20	5	2	8	5	3	/ /	85709	88622	11	jpNW		
12	59	8	02	04	10	5.1	2.3	82	4.4	1019.6	5	002	05	8	2	8	8	4	/ /	81815	88628	12	Cu hum		
13	59	8	04	05	10	3.8	0.1	77	3.8	1023.8	7	005	05	2	2	8	5	5	/ /	85623	88630	13			
14	63	3	12	06	16	5.9	-2.9	53	3.0	1023.8	8	015	02	1	1	3	0	9	7	1	81361	83363	14	1Ci78 COTRA	
15	57	8	14	06	14	6.0	2.3	77	4.4	1018.1	6	013	61	6	6	7	5	4	2	/	81618	87635	15	/As65	
16	61	7	06	08	17	4.8	-1.2	65	3.4	1020.5	6	003	03	2	2	2	5	5	0	6	82628	83273	87078	16	COTRA Parhelion
17	65	7	10	06	14	6.9	-3.3	48	2.9	1021.1	5	010	02	2	2	0	0	9	0	1	83075	87080	17	COTRA	
18	65	7	09	08	16	7.6	-3.3	46	3.0	1018.6	7	019	03	1	1	1	0	9	4	5	81367	87080	18	2Cs72 COTRA Parhelion	
19	56	7	12	05	12	10.5	4.2	65	5.1	1014.9	6	007	05	1	1	5	5	7	7	/	85650	87358	19		
20	56	8	21	13	27	12.8	11.7	93	8.5	1012.7	5	008	50	6	5	8	5	3	/ /	87707	88612	20			
21	63	8	19	10	20	13.4	10.0	80	7.7	1006.1	6	018	61	6	2	4	5	4	7	/	81618	84633	87359	21	8As62
22	80	3	24	06	17	13.0	6.6	65	6.0	1015.1	1	018	01	1	1	2	4	5	0	1	82828	22	1Sc35 2Ci73 Cu med		
23	68	8	19	15	32	11.1	7.4	78	6.4	1017.8	7	022	60	6	2	6	5	4	2	/	86619	88458	23		
24	82	3	25	08	18	11.8	7.3	74	6.4	1011.8	3	004	25	8	1	3	4	4	0	3	81815	83635	24	1Ci68 Cu med Cb top E jpSW	
25	84	6	28	07	14	10.8	2.1	55	4.4	1014.5	3	002	03	1	1	6	8	6	0	1	82835	85648	25	1Ci73 Cu med	
26	82	5	24	05	10	9.2	5.2	76	5.5	1010.4	6	009	14	6	2	1	2	5	6	3	81823	84360	26	1Ac63 1Ci67 Cu hum/med Cb top NW jpN-E	
27	86	2	33	07	19	10.4	0.2	49	3.8	1022.0	3	006	02	0	0	2	1	6	0	0	82843	27	Cu hum		
28	82	3	33	03	08	9.3	1.0	56	4.0	1028.9	6	012	02	1	1	3	4	5	0	0	83828	28	1Sc45 Cu med		

Mean vis = 20.1 km
 Mean cloud = 6.3 78%
 Mean wind speed = 6.6 kn
 Mean gust = 15 kn
 Mean TT = 7.9 °C
 Mean TdTd = 3.2 °C
 Mean RH = 73.6 %
 Mean r = 4.9 g/kg
 Mean PPP = 1020.8 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

Wokingham	Hour	01-Feb	02-Feb	03-Feb	04-Feb	05-Feb	06-Feb	07-Feb	08-Feb	09-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
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
Hourly analysis	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
	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
	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
2025	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
	5	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
	6	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
	7	0.00	0.07	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.99	0.00	0.00	0.93	1.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.02	0.00
	9	0.00	0.99	0.00	0.00	1.00	1.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.14	0.00
	10	0.00	1.00	0.00	0.00	1.00	1.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.27	0.00
	11	0.00	1.00	0.00	0.02	0.86	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00
	12	0.00	1.00	0.00	0.02	0.81	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
	13	0.00	1.00	0.00	0.06	0.46	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00
	14	0.00	1.00	0.00	0.05	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00
	15	0.00	1.00	0.47	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00
	16	0.00	0.75	0.69	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00
	17	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
	18	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
	19	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
	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
	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
	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
	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
Tot		0.00	8.81	1.16	0.15	5.06	7.71	0.00	0.00	0.71	0.00	0.00	0.00	0.00	4.84	0.00

Hour	16-Feb	17-Feb	18-Feb	19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb	26-Feb	27-Feb	28-Feb	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
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
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
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
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
5	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
6	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
7	0.00	0.46	0.43	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.67	0.82	0.11
8	0.00	0.81	1.00	0.19	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.99	1.00	0.26
9	0.00	1.00	1.00	0.75	0.00	0.03	0.00	0.00	0.05	0.00	0.00	1.00	0.82	0.29
10	0.00	1.00	1.00	0.00	0.00	0.12	0.11	0.00	0.01	0.14	0.00	0.67	0.45	0.24
11	0.00	1.00	1.00	0.00	0.00	0.09	0.79	0.00	0.71	0.72	0.00	0.97	1.00	0.34
12	0.74	1.00	1.00	0.00	0.00	0.27	0.01	0.00	0.81	0.94	0.04	1.00	1.00	0.38
13	1.00	1.00	1.00	0.19	0.00	0.01	0.49	0.00	0.49	0.39	0.01	0.98	0.74	0.35
14	0.35	0.97	1.00	0.74	0.00	0.00	0.90	0.00	0.57	0.26	0.15	1.00	0.18	0.31
15	0.51	1.00	1.00	0.11	0.00	0.00	0.90	0.00	1.00	0.20	0.75	0.72	0.00	0.34
16	0.00	1.00	0.14	0.00	0.00	0.00	0.76	0.00	0.99	0.64	0.64	0.67	0.54	0.27
17	0.00	0.05	0.00	0.00	0.00	0.00	0.29	0.00	0.41	0.12	0.32	0.48	0.57	0.08
18	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
19	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
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
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
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
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
Tot	2.59	9.29	8.57	1.99	0.00	0.53	4.25	0.57	5.04	3.38	1.90	9.15	7.13	82.86

FEBRUARY 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	4.84	6.1	5	1.9	2359	91.3	99.8	0	82.1	1841	3.5	4.8	5.7	5	4.1	2224	1028.62	1030.5	858	1025.2	2351	0
2	1.98	8.9	1315	-2.5	719	89.8	100.0	123	59.2	1324	0.2	3.8	4.8	1035	3.1	754	1022.99	1025.5	2102	1021.1	1451	0.1
3	3.98	9.1	1535	-1.9	212	95.3	100.0	0	82.9	1131	3.3	4.8	6.4	1535	3.2	212	1024.62	1025.9	208	1023.3	1510	0.1
4	7.80	10.5	1415	3.8	56	89.4	100.0	0	74.3	1213	6.1	5.8	6.8	1731	4.9	56	1023.29	1030.1	2356	1020.7	1409	0.4
5	5.06	9.6	1256	-0.3	2353	88.5	100.0	2210	63.2	1514	3.2	4.6	5.3	1145	3.6	2353	1038.11	1043.9	2359	1030.0	0	0.2
6	2.32	9.2	1322	-3.0	727	89.6	100.0	0	63.1	1256	0.6	3.9	4.8	1121	2.9	736	1041.96	1044.6	808	1036.4	2357	0.1
7	2.65	4.6	1024	1.6	343	92.4	100.0	1535	73.8	958	1.5	4.2	4.5	2355	3.7	958	1025.14	1036.4	0	1017.2	2358	5.7
8	4.04	5.5	1633	2.5	0	99.7	100.0	0	98.0	1833	4.0	5.0	5.5	1634	4.5	2344	1018.38	1024.0	2344	1015.5	621	1.5
9	2.89	6.3	1427	-1.1	630	98.2	100.0	0	88.4	1441	2.6	4.5	5.4	1331	3.4	649	1027.82	1029.8	1951	1023.9	0	4.9
10	3.13	3.9	1537	1.9	2006	95.5	100.0	0	86.5	1518	2.5	4.5	4.8	149	4.2	1454	1024.22	1029.4	1	1020.5	2358	3.2
11	3.38	4.6	1452	2.7	3	92.7	97.7	2355	87.4	1530	2.3	4.4	4.8	1345	4.2	1	1019.11	1020.6	0	1017.9	1530	0
12	3.80	5.4	1417	2.8	531	91.4	100.0	238	79.2	1420	2.5	4.5	4.7	327	4.3	1503	1019.93	1022.1	2359	1018.8	419	0
13	3.28	4.1	1211	2.6	2303	82.5	95.2	516	60.9	2233	0.5	3.9	4.5	7	2.8	2233	1023.73	1025.1	2204	1022.0	1	0
14	3.49	6.5	1330	1.5	339	65.2	79.9	2359	49.8	1333	-2.5	3.1	3.6	2358	2.7	1758	1024.57	1026.0	1107	1023.2	2351	0
15	4.30	6.3	1325	2.4	2358	81.2	92.6	1900	73.1	1359	1.3	4.1	4.7	1142	3.6	13	1019.78	1023.6	3	1017.9	1721	1.0
16	2.30	6.8	1332	0.1	316	80.3	95.8	408	55.5	1333	-0.9	3.5	4.1	821	3.0	1900	1020.48	1022.2	2309	1018.6	308	0
17	1.37	7.5	1327	-3.4	723	75.6	97.1	731	44.9	1622	-2.9	3.0	3.5	959	2.5	1624	1022.03	1023.1	2203	1020.7	1529	0.1
18	2.83	8.9	1247	-0.8	613	72.3	92.3	618	44.0	1615	-2.0	3.2	3.9	1158	2.6	1615	1020.09	1022.5	11	1017.2	2330	0
19	4.93	10.9	1506	-0.7	532	83.2	95.8	2359	64.7	1509	2.2	4.5	6.6	2359	3.2	413	1015.62	1017.6	31	1014.6	1505	0.3
20	11.40	12.9	1444	8.6	13	95.6	97.8	737	91.4	1450	10.7	8.0	8.5	1529	6.6	13	1013.90	1015.9	2052	1011.9	1406	1.1
21	12.53	15.2	1006	10.3	2334	89.3	97.8	239	68.4	1232	10.7	8.0	8.5	717	7.1	1258	1009.20	1015.0	18	1005.9	1438	7.8
22	9.82	13.7	1329	4.6	2336	88.3	99.3	2347	61.1	1439	7.8	6.6	7.6	22	5.1	2336	1013.71	1022.6	2359	1007.0	309	1.4
23	9.42	11.4	1426	5.9	454	88.6	99.2	529	73.1	1349	7.6	6.4	7.5	2313	5.6	454	1019.16	1023.6	150	1012.7	2352	3.4
24	10.01	14.8	1255	7.1	1932	87.9	98.0	403	60.0	1317	8.0	6.6	7.7	345	5.6	1749	1011.63	1013.3	1831	1009.8	530	9.8
25	7.72	11.2	1334	3.1	2348	80.6	98.5	820	54.6	1344	4.3	5.2	6.6	206	4.2	1435	1014.31	1018.1	2234	1011.3	445	5
26	5.28	9.7	1505	1.3	330	89.7	99.5	353	66.6	1605	3.7	4.9	6.2	1237	4.1	330	1013.56	1018.5	117	1010.3	1506	7.8
27	5.72	10.9	1357	-0.3	2358	74.6	98.1	2347	44.5	1516	1.1	4.1	4.7	234	3.4	1518	1020.60	1027.7	2355	1013.4	17	0
28	2.50	10.6	1447	-2.4	616	87.3	99.9	813	50.3	1447	0.3	3.8	4.9	1150	3.1	702	1029.57	1031.9	2355	1027.6	0	0.2

Total																					54.1	
Mean	5.10	8.75		1.73		87.0	97.65		67.89		2.94	4.77	5.59		3.97		1021.65	1025.34		1018.37		
Max	12.53	15.21		10.27		99.7	100.00		98.00		10.73	7.99	8.52		7.12		1041.96	1044.61		1036.44		
Min	1.37	3.88		-3.37		65.2	79.90		43.95		-2.90	3.02	3.51		2.51		1009.20	1013.34		1005.90		

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

WINTER 2024/25

Rank in the past 143 years

Temperature (°C)													
Mean maximum	8.4	(0.0)											44th highest
Mean minimum	2.5	(+0.4)											33rd highest
Daily mean	5.4	(+0.1)											42nd highest
Rainfall total (mm)	197.9	(111 %)											38th highest
Sunshine total (hours)	184.3	(82%)											
N° of:													
Dry days	46 (+2)												
Wet days													29 (-3)
Days with: Air frost	23 (-7)												
Ground frost													44 (-6)
Snow falling													3 (-6)
Snow lying													0 (-4)
Thunder	0 (-1)												
Hail ≥5mm	0 (0)												
Small hail/ice													5 (+1)
Fog @09 GMT													1 (-4)
Nil sun													37 (+10)
Air pressure MSL : Mean @09 GMT (mbar)	1019.2	(+2.8)											

Departure from 1991 to 2020 average shown in brackets.

Notes: **Temperature Near, Rainfall Above, Sunshine Below, Average**

Temperature: The mean this winter is very close to the current 30 year climatological average, although the mean minimum is 0.4° above its average. In the longer term, the mean is 0.7° above the 143 year median. In this millennium 13 winters have been colder and 12 warmer than this season, but only 5 of the colder years have been below the long-term median. December was the mildest month, mean 7.2° (+1.8°), and January the coldest, mean 3.7° (-1.4°), while February had 5.3° (-0.1°). The season's highest temperature was 15.2° on the 21st Feb, 1.2° above the median, and the lowest was -7.1° on the 11th Jan, 0.2° above its median. The highest min was 11.4° on 21st Feb, 1.4° above the median, and the lowest max was 1.5° on the 8th Jan, 1.6° above its median. The mean grass min was 0.2° (+1.0°), and the lowest was -9.5° on 11th Jan, 3° above the 46 year average, (the record stands at -23.3° in Dec 1982). Mean earth temperature at 30cm depth was 6.8°, (+0.8°), and at 1m depth the mean was an exactly average 8.1°. In the 1985/86 winter the daily temperature at 30 cm fell to 1.1°, this year it was 3.8°, and the lowest in this millennium was 2.1° in 2002. The duration of air frost was 170.1 hours, 63% of average. **Rainfall:** The total fall this winter season is 11% above average. However, it is 66.6 mm drier than in the previous winter, and 180.6 mm less than in the record wettest in 2014, in fact 8 winters in this millennium have been wetter than winter 2025. January was the wettest month with 98.2 mm, 149% of average, then February with 64.2mm, 136% of average, while December with 35.5mm and 55% of average was the driest. The wettest day was the 26th Jan with 19.3mm. There were 3 wet spells, 31.1mm over 2 days to the 5th Jan, 44.8mm over 5 days to the 27th Jan, and 42.3mm over 6 days to the 26th Feb. Drier periods include 8 days to the 16th Dec with only 1 wet day, 11 days to the 31st Dec with no wet days but 3 rain days, 17 days to the 22nd Jan, only 1 wet day and 4 rain days, and including a 5 day dry spell ending on the 13th, 6 days to 6th Feb, only 1 rain day, and 9 days to the 19th Feb with 1 wet day and 1 rain day. The highest rainfall rate was 60 mm/hr at 0800 GMT on the 24th Jan, the only day this season to have a rate in the violent category. There was no thunder, but small hail (ice pellets) fell on the 1st, 4th and 27th Jan and 7th and 26th Feb. Snow fell on the 4th, 7th and 8th Jan, but there was no lying snow (at least 50% cover at 09 GMT). Snow did accumulate to about 1 cm in the evening of the 4th Jan but largely thawed overnight. **Sunshine:** A rather poor showing this winter, mainly due to a very dull December. The total this winter is 1.3 hours less than in the winter of 2023/24, but because 2024 was a leap year, the daily mean sun for this winter is 0.01 hours more than last year. In this millennium 23 winters have been sunnier than this one. In terms of the monthly daily mean sunshine, Feb was sunniest with 2.96 hours, Jan was next with 2.26 hours, then Dec with 1.00 hours, only 46 % of average. Notable dull periods were 7 days to 13th Dec, total 0.2 hours, 9 days to 1st Jan, total 0.1 hours, 5 days to 19th Jan, total 0.1 hours, 7 days to 13th Feb, total 0.7 hours. The 17th Feb was the sunniest day with 9.3 hours, but there were no sunny spells this season, just the odd sunny day, of which 11 had 5 hours or more. The number of days with nil sun, 27, is 9 more than average, and the most for winter since 2011. Overall there were 65 days with less than 3 hours and 25 with 3 or more hours. **Wind:** The overall mean speed of 6.9 mph is 0.8 mph below average. The windiest day was the 7th December, mean speed 25 mph, and the highest gust of 60 mph was also on that day. The least windy day was 1.7 mph on the 11th January. Daily mean direction/number of days: N,11 NE,11 E,3 SE,4 S,9 SW,26 W,18 NW,8. Compared with average, winds from S and SW combined were 13.3% less frequent while N and W winds combined were 12.0% more frequent. **Humidity:** The mean relative humidity was 88.2 % and the lowest was 44% on the 18th Feb. The mean water vapour content per kg of air was 5.0g at 0900 GMT and 5.1g at 1500 GMT. **Pressure:** The season's highest pressure was 1044.6 mbar on 6th Feb and the lowest was 970.9 mbar on the 6th Jan, span 73.7 mbar, average 64.4 mbar. **December:** Very mild and very dull with rainfall below average. Lowest max 3rd highest in 112 years. Lowest min 2nd highest in 121 years. Air frost duration 2nd lowest in 44 years. Highest daily rainfall 8th lowest in 121 years. Number of days with nil sun 2nd highest in 46 years. Highest daily sun 2nd lowest in 46 years. 7th was the windiest Dec day in 38 years, the gust of 60 mph on that day highest for the month since 1993. **January:** Cool and very wet with average sunshine. 3rd wettest Jan in this millennium. Wettest since 2014 and before that 1995 and 11th wettest in 144 years. Month's lowest pressure lowest since 2008. **February:** Temperature and sunshine near, and rainfall above, average. Highest min 4th highest in 113 years. Month's highest pressure 2nd highest for the month in 50 years.

Month	Mean Max	Anom	Mean Min	Anom	Rain mm	Anom	Sun hrs	Anom	Mean Wind mph	Max gust	Mean pressure	Anom
December	9.5°	+1.0°	2.5°	+2.5°	35.5	55%	31.1	46%	8.4	60	1022.6	+7.0
January	6.8°	-1.3°	0.7°	-1.3°	98.2	149%	70.2	96%	6.0	52	1013.4	-2.9
February	8.8°	0.0	1.8°	-0.1°	64.2	136%	83.0	98%	6.1	40	1021.9	+5.2

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.