

## June 2025

Weakening fronts dropping down across the UK affected the first day of summer in the islands, with early rain, drizzle and mist slowly clearing to a brighter afternoon. Low pressure to the north of Scotland responsible for these fronts continued to make progress northeast as those fronts cleared the islands with a little bump of high pressure nudging up from the southwest following on behind ensuring a brighter and drier day for the 2<sup>nd</sup>.

The next Atlantic Low swiftly followed that transient ridge with a series of more active fronts arriving in the Southwest Approaches by morning on the 3<sup>rd</sup>. The first few splashes of rain arrived around the morning commute and this turned to more of a mix of rain and drizzle for the afternoon with mist and hill fog patches. The clearing cold front went through late afternoon to leave us a dry and bright evening.

That low remained stubbornly slow moving between Scotland and Iceland over the next day or so, with a scattering of showers peppering the islands. An open wave depression produced a more organised band of rain and drizzle on the 5<sup>th</sup> as it slid slowly up the Channel with disappointing air temperatures and no signs of any sunshine. We didn't fare too much better on the 6<sup>th</sup> either with frequent showers through the morning, again that evening and overnight into the 7<sup>th</sup> as a series of troughs crossed southern parts of the UK and northern France. Freshening southwesterly winds gusting to Force 7 only added to the despair.

However, there was some sign of summer out to the southwest as an extensive Azores High began to stretch up into the Channel by the 8<sup>th</sup> with clearing skies and winds easing to light Force 2 by day's end. Although most of France and Central Europe fell under the influence of this settling anticyclone, low pressure systems sweeping in off the North Atlantic continued to affect northern and central parts of the UK, with patchy cloud just taking the edge off our sunshine over the next couple of days.

Smoke in the upper atmosphere from extensive wildfires in Alberta, Canada was conveyed across the Atlantic on the jetstream to arrive over the UK during the weekend of the 7<sup>th</sup> & 8<sup>th</sup>. This led to a 'brassy' look to our skies at times and a brownish hue to sunrise and sunset. Smoke particles in the atmosphere scatter the blue wavelengths of light more, with our eyes then seeing a more predominantly orange or red tint to the sky.

As that high edged away to the northeast to be centred over Scandinavia by the late evening on the 11<sup>th</sup>, so we started to see more of an easterly flow developing over the islands with a resulting lift in air temperatures as warmer air fed in off nearby France. Heavy and thundery showers were also mixed in with this flow as our temperatures crept into the low 20's, and while we did see a scattering of occasionally heavy showers overnight and into the morning of the 12<sup>th</sup>, we did manage to avoid the worst of it. Parts of the southwest fared less well with some 36mm of rain falling in just a few hours that morning in Okehampton leading to flash flooding and problems on the roads.



Spectacular 'Mammatus' formed on the underside of well developed *Cumulonimbus* cloud passing overhead the airport on the morning of the 12<sup>th</sup>. Photo credit B Bonnefin.

These heavy showers continued to feed up from France, driven by a slow moving low out to the west, across the Channel and into southwest parts of the UK through the 13<sup>th</sup> as well, but apart from a few light showers locally and some distant lightning observed that evening, again we managed to avoid the worst of that weather. As that low continued to make slow progress northeastward, pressure started to build once more from the southwest. Skies cleared through the 14<sup>th</sup> as that ridge began to exert its influence over central and southern parts of the UK and the next few days saw plenty of dry and settled weather, although light winds overnight led to some patchy shallow fog in dips around the island.

As that high edged further eastward, so our winds veered into the east and started to pull some warmer air in off the nearby continent. We reached the mid 20's on the 19<sup>th</sup> and after a warm night, the 20<sup>th</sup> saw the mercury hit 29.5°C at our official records station at the airport late that afternoon. Our backup site just off the airfield reached 30.1°C. Temperatures remained above 20°C overnight into the 21<sup>st</sup>, leading to a 'Tropical Night' and despite extensive medium and high cloud through the morning it remained very warm. Weak, slow moving troughs produced the odd isolated shower through the day, but it was early evening that we really felt the change as our winds veered from the southeast into the west and dropped air temperatures to 18°C by mid evening. A few heavy splashes of rain marked this atmospheric transition with traces of Sahara Dust noticeable in that precipitation too.

Overnight temperatures dropped to a more manageable 15°C with lightning observed to the east over mainland France. The 22<sup>nd</sup> was a quiet day with a series of weak fronts crossing the area but no rain was noted until overnight into the 23<sup>rd</sup> when we saw some patchy drizzle in the early hours which then cleared by dawn.

High pressure to the south was still just about keeping the weather away to the north, with low pressure over Scotland driving rain and fresher winds across the bulk of the country, leaving us with generally fair conditions until a slow moving warm front in the Channel brought much damper air across the islands with patchy fog and drizzle through the morning of the 25<sup>th</sup>. This cleared by noon to leave us with a fine afternoon, allowing temperatures to reach the low 20's. Again, overnight into the 26<sup>th</sup> the cloud lowered and thickened with rain, drizzle, mist and fog through the following morning which all but cleared by midday on the 27<sup>th</sup>. A bright afternoon followed but this rather damp southwesterly airflow was still prone to drizzle, mist and fog with its long sea track up from the Azores.

The 28<sup>th</sup> saw further drizzle, mist and fog to start the day which returned later that morning after initially clearing some hours earlier. The afternoon saw a marked improvement but cloud thickened once more overnight with a similar picture unfolding through the 29<sup>th</sup>. We were now starting to see that high to the south of the UK drift away to the east with a light southeasterly drift setting up across the Channel. Very warm air was now being pulled up over the islands with air temperatures increasing steadily through the 30<sup>th</sup>, peaking at 30.4°C late afternoon. This was the 2<sup>nd</sup> highest June temperature recorded at the airport after 26<sup>th</sup> June 1976.

Late afternoon saw the arrival of a much cooler air mass as our winds veered into the west. Temperatures fell by some 5°C by mid evening, a welcome relief for many after the heat of the afternoon.

This month was the warmest June at the airport and the 2<sup>nd</sup> warmest June since records began in 1843, with only 1846 warmer by 0.3°C. Sunshine and rainfall were just about on the long term average although over two thirds of the month's rainfall fell over just 3 days during the first week. Despite all the warmth and near average rainfall and sunshine, it was actually the dullest and wettest June since 2021. We enjoyed our first June Tropical Night on the 20<sup>th</sup>/21<sup>st</sup> for 20 years with the temperature dropping to just 21.5°C overnight.

DAY	DATE	BAROMETER		TEMPERATURE deg C					WIND				RAIN mm	SUN hrs	WEATHER		
		hPa	AIR			GRASS	SOIL		DIR'N	SPEED(knots)							
		at 9a.m.	MAX	MIN	MEAN	MIN	30cm	100cm	9a.m.	9a.m.	MEAN	MAX					
Sun	1	1018.0	17.5	12.8	15.2	13.0	16.4	14.4	260	06	10.2	21	NIL	7.0	Cldy. Early am rain, drz & mist, clrng early pm to fair, fine by eve		
Mon	2	1020.4	17.7	11.5	14.6	9.7	16.1	14.5	010	06	6.4	13	TR	13.3	Mainly fine, occn fair w with high cloud early pm		
Tue	3	1010.3	15.7	11.7	13.7	10.2	16.0	14.6	210	16	12.1	29	6.7	0.4	Cldy. Rain mid am, drz, fog & mist from early pm, clrng by late pm		
Wed	4	1009.5	16.7	10.8	13.8	10.1	15.4	14.6	240	11	10.6	22	0.2	10.7	Cldy. Sct shw rs early bec fair		
Thu	5	1005.7	15.2	12.8	14.0	13.3	15.7	14.6	190	12	12.2	22	7.8	NIL	Cldy with rain, drz & mist patches at times		
Fri	6	1010.6	16.7	12.3	14.5	11.6	15.3	14.6	270	05	11.4	22	14.6	3.7	Cldy with shw rs am. Rain from early eve till late eve		
Sat	7	1009.7	15.3	11.7	13.5	12.4	15.3	14.6	240	17	14.8	30	1.4	0.6	Cldy with frqnt shw rs, occn hvy am, bec sct/isol pm/eve		
Sun	8	1021.3	16.0	11.6	13.8	9.8	14.9	14.6	290	11	9.5	20	NIL	13.2	Mainly fine, occn fair		
Mon	9	1024.7	17.3	11.0	14.2	9.6	15.5	14.6	230	07	6.1	13	TR	4.7	Cldy with isol shw r am, bec fair then fine by eve		
Tue	10	1020.7	17.8	11.9	14.9	11.7	15.8	14.6	260	12	8.8	19	NIL	3.3	Cldy with fair periods pm		
Wed	11	1018.9	21.6	11.8	16.7	11.2	16.1	14.6	090	08	8.8	22	5.1	9.8	Early shalw fog. Cldy bec fine mid am. Cldy with shw rs late eve		
Thu	12	1010.0	21.6	15.5	18.6	16.2	17.4	14.7	170	11	8.7	21	2.4	7.9	Cldy. Shw rs brfly hvy & fog ptchs clrng late am. Fair/fine pm/eve		
Fri	13	1019.0	21.4	15.4	18.4	15.5	18.0	14.9	130	05	8.1	17	TR	10.1	Cldy/fair am. Fair with isol light shw r pm. Lightning @1830z		
Sat	14	1018.5	18.7	13.9	16.3	14.3	18.2	15.1	230	15	12.5	24	NIL	11.2	Cldy with early mist/hill fog bec fine late am		
Sun	15	1025.4	17.9	13.0	15.5	13.1	18.4	15.2	290	11	9.6	19	NIL	14.5	Fine		
Mon	16	1030.5	18.2	13.1	15.7	12.5	17.8	15.5	340	06	4.7	11	NIL	8.4	Cldy bec fine early pm		
Tue	17	1027.6	19.9	11.5	15.7	9.4	17.3	15.6	090	03	4.5	12	NIL	14.5	Fine with early shallow fog		
Wed	18	1026.7	21.8	13.4	17.6	12.2	17.9	15.7	050	06	5.7	11	NIL	14.9	Early shallow fog & mist clrng by daw n to fine		
Thu	19	1024.2	24.5	13.1	18.8	12.6	18.5	15.8	100	12	9.2	22	NIL	14.6	Fine. Dry air pm		
Fri	20	1022.0	29.5	19.2	24.4	16.8	19.4	16.0	140	09	10.9	22	TR	11.4	High cloud soon clrg to bec mainly fine w with dry air pm		
Sat	21	1016.7	27.9	16.7	22.3	18.8	19.7	16.2	140	11	11.7	23	TR	7.5	Cldy with isol shw rs am, bec fair. Isol shw r late pm. Sahara Dust		
Sun	22	1018.1	21.5	15.1	18.3	13.4	19.2	16.3	220	14	13.6	28	TR	9.1	Mainly cldy, occ fair/fine. Lightning @ 0213z		
Mon	23	1018.4	19.3	14.7	17.0	15.0	18.7	16.5	310	13	13.2	28	NIL	12.4	Cldy with drz early am, bec fair then fine. Dry air late am to early pm		
Tue	24	1017.2	22.4	14.1	18.3	12.8	18.5	16.6	230	15	10.7	23	TR	10.1	Fair occn cldy am bec fine pm. Cldy eve. Dry air pm		
Wed	25	1013.8	21.2	15.1	18.2	17.4	19.0	16.5	170	02	4.7	12	0.5	7.2	Cldy with mist, hill/sea fog & drz am bec fair/fine pm. Cldy eve		
Thu	26	1015.0	20.5	15.0	17.8	14.8	18.9	16.6	240	17	11.1	25	2.4	4.0	Cldy. Rain, drz, mist & fog clrng midday. Fair pm. Hvy drz/fog late eve		
Fri	27	1022.8	22.3	15.9	19.1	17.0	18.7	16.7	220	11	12.8	26	0.3	7.0	Ovc with rain, drz & fog clrng mid am to fair/fine pm. Cldy eve		
Sat	28	1027.4	22.4	16.4	19.4	17.9	18.9	16.8	240	09	8.4	16	TR	6.4	Ovc/cldy. Drz, fog & mist clrng noon to fair/fine. Cldy & misty eve		
Sun	29	1027.4	20.9	16.0	18.5	18.9	19.3	16.8	350	03	4.7	13	TR	2.5	Cldy. Fog, mist & ptchy drz am. Occn fair pm. Mist & fog late eve		
Mon	30	1017.9	30.4	14.4	22.4	14.1	19.6	16.8	130	08	6.6	16	TR	14.5	Fog & mist ptchs early am bec fine. Dry air pm		
MEAN	1018.9	20.3	13.7	17.0	13.5	17.5	15.5	SW	9.7	9.4	TOTAL	41.4	254.9				
30 YEAR AVG 1991-2020	1017.8	17.7	11.8	14.8	9.6	16.2	14.4	W	10.2	9.9	/////	47.9	245.9				
EXTREMES ARE IN BOLD TYPE	NUMBER OF DAYS WITH	RAIN ≥0.2mm 10	WET ≥1.0mm 7	SNOW/ SLEET 0	HAIL 0	THNDR 0	LGHTNG 2	AIR FROST 0	GROUND FROST 0	FOG 9	FOG 9a.m. 0	GALE 0	NO SUN 1	TOTALS FOR YEAR TO DATE			
RECORDS FROM JANUARY 1947														RAINFALL	349.9 mm	SUNSHINE	1127.6 hrs
WETTEST DAY	46.8mm	DRIEST MONTH		0.6mm	LOWEST MIN		5.4°C	WARMEST MNTH		16.7°C	SUNNIEST MNTH		355.3hrs	RAIN DAYS	72	SUNLESS I	24
DAY/YEAR	16th/1970	YEAR		1976	DAY/YEAR		1st/1975	YEAR		1976	YEAR		1975	WET DAYS	52		
WETTEST MNTH	129.7mm	HIGHEST MAX		30.8°C	LOWEST GRASS		-3.0°C	COLDEST MNTH		11.3°C	DULLEST MNTH		147.8hrs				
YEAR	1986	DAY/YEAR		26th/1976	DAY/YEAR		14th/1987	YEAR		1972	YEAR		1977				

