

METEOROLOGICAL REPORT FOR SHANKLIN, ISLE OF WIGHT, 2024

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Abstract Shanklin Weather Station was established in January 1947 for the recording of rainfall, and January 1948 for the recording of temperature and sunshine. The Station is owned by the Isle of Wight Council and is maintained by the Met. Office. The station is situated at The Mead, a park area near Shanklin 'Old Village' towards the outskirts of the town and is 50 feet above sea level. The station is a simple one consisting of a 5" standard rain gauge and a Stevenson's Screen equipped with three thermometers. Readings and observations are taken once daily at 09.00GMT. The Campbell Stokes sunshine recorder is located on the roof of Shanklin Theatre, at a height of 180 feet above sea level but it is not currently in use. All averages refer to the Shanklin climate data set 1991-2020. The Met. Office duly completed their inspection on the 12/03/24 and at this point the Precision Thermometer was replaced with the installation of a Vaisala HMT temperature Logger

The weather for 2024 was remarkable: it was provisionally both the 4th warmest year and the 4th wettest year on record. The winter was the second wettest in a sequence going back to 1983, with 481.8mm of rain recorded. Spring was also very wet; the wettest spring in the series going back to 1983. The three summer months were about average. Autumn resumed the rainy theme by being the 6th wettest. In British Climatology, a period of 24 hours (normally commencing at 0900) in which 0.2mm rain is recorded, is defined as a 'rain day'. 'Measurable rain' is 1mm or more in a 24-hour period; hence 'rain days' will be a higher number than number of days with 'measurable rain'.

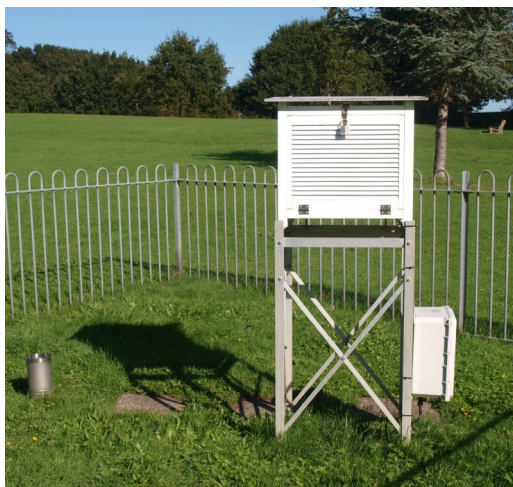


Fig. 1: Shanklin Weather station

JANUARY 2024 started wet and mild with a colder spell from the 5th of the month. The mean temperature for January was 5.94C. This was 0.22C below average and the first month to be below average since August 2023. The warmest day was the 2nd, when 13.0C was recorded. The coldest day was the 13th when the temperature reached 2.7C. The coldest night was the 16th, with an overnight temperature of -4.1C, one of the seven air frosts recorded in January.

The rainfall total was 94.1mm, 90% of its average. Rain was recorded on 12 days compared to the average of 18. The highest amount in a 24-hour period was recorded on the 1st and was 28.9mm.

FEBRUARY

A very mild and wet month. The mean temperature

was 8.88C; this was 2.97C above the average. The warmest day was the 18th with 14.5C. The coldest day was the 25th with 7.9C. The minimum temperature was recorded on the morning of the 27th, when -0.4C was logged, the only air frost for that month.

The rainfall total was 209.4mm which was 285% of the average; the wettest February that I have recorded. The wettest days were the 17th with 29.9mm of rain, 6th with 25.0mm, 25th with 22.0mm, and the 8th with 20.1mm. Rain was recorded on 21 days compared to the average of 14.

MARCH

Another mild, wet month, with a mean temperature of 8.80C which was 1.40C above the long-term average. The warmest day was the 20th with 15.0C. The coldest day was the 2nd with 8.2C. The coldest overnight temperature, recorded on the 3rd was -0.3C, the only air frost recorded in March.

Rainfall for March amounted to 106.9mm, 178% of the average. The wettest day was the 1st with 13.7mm. Rain was recorded on 19 days compared to the average of 14.

APRIL

A wet, mild month. The mean temperature was 10.14C, 0.73C above the long-term average. The warmest day was the 6th with 16.5C and the coldest day was the 22nd with 9.7C. The coldest nights were recorded on the mornings of the 21st and again on 24th, when 2.1C was recorded.

The rainfall amounted to 102.5mm, 190% of the average. The wettest day was the 27th with 29.5mm of rain. This followed a dry spell from the 11th till the 24th during which just 6.0mm of rain fell. There were 12 days with measurable rain, which is the same as the average.

MAY

May was a mild and wet month. The mean temperature for May was 13.40C and was 1.09C above the average. The warmest day in May was recorded on the 12th with 20.8C. The coldest day was the 2nd with a recorded maximum of 12.7C. The coldest overnight temperature, recorded on the morning of the 4th, was 5.4C.

The rainfall amounted to 69.1mm, which was 132% of the average. The wettest day was the 13th with 14.8mm recorded. Rain was recorded on 14 days; the average is 11.

JUNE

The mean temperature for June was 14.87C, -0.07C below the long-term average. The mean minimum temperature, at 10.80C, was 0.67C below the average, but the mean maximum temperature, at 18.94C, was 0.53C above the average. The maximum temperature up to the 20th was only 17.73C, 1.21C below the average maximum temperature. Warmer days during the last week helped to raise the temperature above the average. The warmest day was the 25th with 26.8C recorded, one of four occurrences when the temperature exceeded 21.1C. The coldest day was the 13th, with 15.2C recorded. The coldest overnight temperature was recorded on the 9th when 6.5C was recorded. The trend has been for June to have become warmer in recent years, but this year has been an exception.

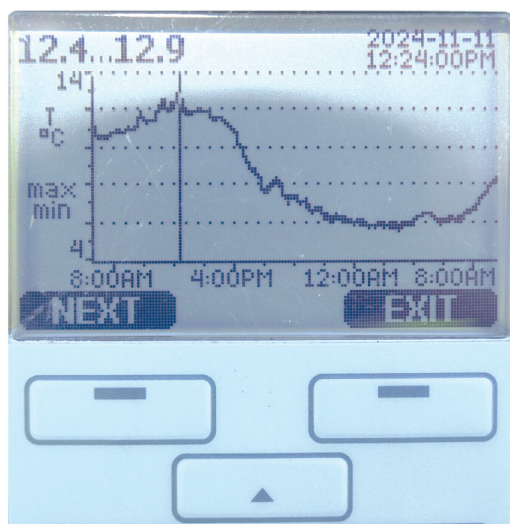


Fig. 2: Vaisala HMT temperature Logger

Rainfall totalled 25.1mm and was 46% of average. The wettest day was the 14th with 12.9mm. Rain was recorded on 4 days, compared to the average of 10. After the first six months of 2024, the total rainfall was 607.1mm. This was 152% of the 1991-2020 average of 399.0mm, showing that so far, the year had been wetter than normal. Temperatures were also higher than normal, with four months having above average temperature. The six-month mean was 10.34C, against the 1991-2020 average of 9.36C

JULY

Slightly cooler than average, and wet. The mean temperature for July was 16.78C and was 0.27C below the average. The warmest day was the 30th with a recorded maximum of 28.6C, one of 8 days when the temperature exceeded 21.1C. The coldest day was the 7th with a recorded maximum of 16.9C. The coldest overnight temperature was recorded on the morning of the 15th with 9.9C.

July was a wet month with 85.4mm of rain, 163% of its average rainfall. The wettest day was the 15th with 19.3mm, closely followed by the 9th with 15.6mm, of rain. Rain was recorded on 15 days against an average of 9.

AUGUST

A warmer and drier than average month. The mean temperature for August was 17.72C and was 0.53C above the average. The hottest days were the 1st and

the 12th with a recorded temperature of 26.7C. There were 10 days when the temperature reached or exceeded 21.1C. The coldest day was the 24th with 17.4C. The lowest overnight temperature was on the 30th, when 10.2C was recorded.

Rainfall for the month amounted to 56.8mm, 85% of the average. The wettest day was the 23rd with 13.6mm. Rain was recorded on 11 days which is the average. August 2024 was the driest August since 2013.

SEPTEMBER

An average month with respect to temperature. The mean temperature for September was 15.12C which was 0.15C below the average. The warmest day was the 1st with 24.3C recorded, one of four days when the maximum temperature reached or exceeded 21.1C. The coldest day was the 27th, when the temperature was 13.4C. The lowest temperature overnight was recorded on the morning of the 13th when 5.8C was recorded.

The rainfall recorded was 165.6mm, 229% of its average. This was the wettest September that I have recorded; the previous wettest was 2000 when 162.4mm fell. The wettest days were the 29th with 29.4mm, 5th with 35.2mm and 26th with 41.3mm. The number of rain days in September was 18; the average is 12.

OCTOBER

Mild and wet. The mean temperature for October was 13.64C and was 1.19C above average. The warmest day was the 16th with 18.2C, the coldest day was the 10th with 12.9C. The coldest overnight temperature was recorded on the 11th when the temperature fell to 4.4C. October 2024 was a mild month and was 10th warmest since my records began in 1983.

The rainfall for October was above average at 131.9mm, 116% of its average. This is the 16th wettest October that I have recorded. The days with the highest rainfall totals were 21st with 20.2, 13th with 19.1mm, 18th with 16.1mm and the 16th with 13.7mm. There were 20 days with rain recorded compared to 15 which is the average.

There was one named storm, Ashley on 20th-21st.

NOVEMBER

An average month for rainfall and also mild. The mean temperature for November was 9.65C and was 0.52C above the average. The warmest day was the 24th when 16.6C was recorded. The coldest day was the 21st when 4.9C was recorded. The lowest overnight temperature was recorded on the mornings of the 21st when -0.1C was recorded, the first air frost of the autumn. The temperature exceeded 10C on 27 days.

112.6mm of rain fell during the month which equated to 95% of the climate average. The wettest days were the 26th with 34.4mm of rain, 24th with 17.0mm, 18th with 15.8mm, and 23rd with 13.4mm.

Sleet fell on the 21st. It turned to snow inland and over high ground, there was 0.5cm of lying snow at Godshill, on the morning of the 22nd, the first time it had been recorded in November since 2010.

Gales were recorded on the 23rd. Storm Bert passed through 22nd -25th and Storm Conall arrived on 27th November.

DECEMBER

A mild month overall and dry, the driest December since 2016 when 39.8mm of rain was recorded. The mean temperature for December was 8.06C, 1.17C above the average. The highest temperature was recorded on the 5th when 13.7C was recorded. The coldest day occurred on the 13th when the temperature only reached 6.3C. The lowest overnight temperature was recorded on the 4th when the temperature fell to 0.7C. This was one of six Decembers, all of which have occurred since 2011, that have been frost free.

Rainfall amounted to 64.6mm and was 54% of the climate average and it was the 10th driest December in the last 42 years. The wettest day was the 4th with 21.9mm. There were 16 days with rain recorded; the average is 16.

There was a very windy spell on 7th and 8th, both with gales recorded. In contrast, the Christmas period was dull with fog.

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Table 1: MONTHLY WEATHER SUMMARY FOR SHANKLIN - 2024

MONTH	AVERAGE TEMP. C	MEAN MAX. TEMP. C	MEAN MIN. TEMP. C	RAINFALL MM
JANUARY	5.94	8.35	3.53	94.10
FEBRUARY	8.88	11.02	6.74	209.40
MARCH	8.80	11.29	6.30	106.90
APRIL	10.14	12.98	7.29	102.50
MAY	13.40	16.85	9.95	69.10
JUNE	14.87	18.94	10.80	25.10
JULY	16.78	20.10	13.47	85.40
AUGUST	17.72	20.78	14.65	56.80
SEPTEMBER	15.12	18.26	11.97	165.60
OCTOBER	13.64	16.04	11.23	131.90
NOVEMBER	9.65	12.18	7.11	112.60
DECEMBER	8.06	10.13	5.99	64.60
YEARLY FIGURE	11.915	14.74	9.09	1224.0