

## METEOROLOGICAL REPORT FOR SHANKLIN, ISLE OF WIGHT, 2022

Clive Cooper

**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. Averages refer to the Shanklin climate data set 1991-2020.

There have been some issues with equipment failure this year and consequently some of the data which follow have been taken from the meteorological observer's own station in Godshill nearby.

The weather for 2022 was remarkable; it is provisionally the warmest year on record. The record high temperature in July was the highest that I have recorded in Shanklin. The dry weather that predominated till mid-August was followed by the second wettest Autumn; previously, the wettest Autumn was in 2000 when 610.7mm of rain was recorded. In total 2022 had 1073.6mm of rain, which was 114% of the climate average.

### JANUARY

2022 started wet and mild, with a colder spell from the 20<sup>th</sup> of the month. The mean temperature for January was 6.5 °C; this was 0.3 °C above average. The warmest day was the 1<sup>st</sup> when 13.7 °C was recorded. The coldest day was the 25<sup>th</sup> when the temperature only reached 5.1 °C. The coldest night was the 6<sup>th</sup> with an overnight temperature of -2.1 °C, one of the two air frosts recorded in January.

The rainfall total was 58.3mm and was 55% of its average. Rain was recorded on 14 days compared to the average of 18. The highest amount in a 24-hour period, 12.6mm, was recorded on the 8<sup>th</sup>.

### FEBRUARY

February was a very mild month. The mean temperature was 7.9 °C which was 2.0 °C above the average. The warmest day was the 2<sup>nd</sup> with 12.5 °C and the coldest day was the 10<sup>th</sup> with 7.6 °C. The minimum temperature recorded was on the mornings of the 11<sup>th</sup> and the 26<sup>th</sup>, when 1.9 °C was logged.

The rainfall total was 66.3mm which was 90% of the average. The wettest day was the 13<sup>th</sup> with 19.2mm of rain. Rain was recorded on 17 days; the average is 14.

This was a windy month, with gales recorded on five days, the 16<sup>th</sup> and from the 18<sup>th</sup> till the 21<sup>st</sup>.

### MARCH

March started cold but with seasonal warming, ended warmer than normal with a mean temperature of 8.4 °C which this was 1.0 °C above the long-term average. The warmest day was the 24<sup>th</sup> with 16.1 °C being recorded. The coldest day was the 5<sup>th</sup> with 7.2 °C. The coldest overnight temperature, recorded on the 31<sup>st</sup> was 1.9 °C. Rainfall for March amounted to 44.8mm; this was 75% of the average. The wettest day was the 1<sup>st</sup> with 17.5mm. Rain was recorded on 10 days compared to the average of 14.

### APRIL

April was dry and was characterised by very cold nights at the start of the month. The mean temperature was 9.7 °C; this was 0.3 °C above the long-term average. The warmest day was the 20<sup>th</sup> with 17.9 °C. The coldest days were the 1<sup>st</sup> and 2<sup>nd</sup>, both with 9.1 °C. The coldest night was recorded on the morning of the 3<sup>rd</sup>, when -2.1 °C was recorded. This was one of 2 air frosts recorded during the month. This gave a total of 4 air frosts for the year to date.

The rainfall amounted to only 26.2mm, 48% of the average. The wettest day was the 6<sup>th</sup> when there was just 15.7mm of rain.

### MAY

May was a mild dry month. The mean temperature for May was 13.3 °C, 1.0 °C above the average. The warmest days in May were recorded on the 9<sup>th</sup> and the 27<sup>th</sup> and was 20.3 °C. The coldest day was the 1<sup>st</sup> with a recorded maximum of 12.5 °C. The coldest overnight temperature recorded on the morning of the 1<sup>st</sup> was 5.3 °C.

The rainfall amounted to 41.7mm, which was 80% of the average. The wettest day was the 15<sup>th</sup> with 15.3mm recorded. Rain was recorded on 12 days; the average is 11.

### JUNE

June was a warm and dry month. The mean temperature for June was 15.9 °C, 1.0 °C above average. The warmest day was the 17<sup>th</sup> with 27.6 °C recorded, one of six occurrences when the temperature exceeded 21.1 °C. The coldest day was the 7<sup>th</sup>, with 16.8 °C recorded. The coldest overnight temperature was recorded on the 1<sup>st</sup> when 7.5 °C was recorded.

Rainfall totalled 32.8mm and was 61% of average. The wettest day was the 24<sup>th</sup> with 7.3mm. Rain was recorded on 13 days; the average is 10. In the first six months of 2022, the total rainfall was 270.1mm. This was 68% of the 1991-2020 average of 399.0mm, meaning that there was a rainfall deficit in the first half of the year.

Temperatures were higher than normal, all six months having above average temperature with a six month mean of 10.29 °C, against the 1991-2020 average of 9.36 °C.

## JULY

Warm and dry. The mean temperature for July was 19.3 °C, 2.2°C above the average. The warmest day was the 19<sup>th</sup> with a recorded maximum of 34.5 °C, one of 27 days when the temperature exceeded 21.1 °C. The coldest day was the 1<sup>st</sup> with a recorded maximum of 18.0 °C. The coldest overnight temperature, 10.7 °C, was recorded on the morning of the 4<sup>th</sup>.

It was noticed at this point, the 27<sup>th</sup>, that the maximum thermometer was giving too high a reading, so it was taken out of service. The Met. Office was informed and a replacement is due to be supplied. The maximum temperature used here is from nearby Godshill.

July was another dry month with 12.1mm of rain, which was 23% of its average rainfall. The wettest day was the 21<sup>st</sup> with 7.1mm of rain. Rain was recorded on 3 days; the average is 9. No rain fell between 30<sup>th</sup> June till the 19<sup>th</sup> July.

Thunder was recorded on the 22<sup>nd</sup>.

## AUGUST

A warm wet month. The hottest day was the 12<sup>th</sup> with a recorded temperature of 32.1 °C. There were 30 days when the temperature reached or exceeded 21.1°C. The coldest day was the 2<sup>nd</sup> with a maximum of 20.7 °C. (Godshill data). The lowest overnight temperature was on the 8<sup>th</sup> when 10.9 °C was recorded.

Rainfall for the month occurred during the period 15<sup>th</sup> till the 25<sup>th</sup>. The total was 79.8mm, 119% of the average, and the wettest day was the 17<sup>th</sup> with 54.2mm. Rain was recorded on 6 days; the average is 11 days. This was the first month to have above average rainfall since December 2021.

Thunderstorms occurred during the morning and again late afternoon on the 17<sup>th</sup>, with very heavy rain.

## SEPTEMBER

Overall, the temperatures were near average, and it was a wet month. The warmest day was the 12<sup>th</sup> with 25.6 °C recorded, one of ten days when the maximum temperature reached or exceeded 21.1 °C. The coldest day was the 27<sup>th</sup> when the temperature was 16.4 °C in Godshill. The lowest temperature overnight was recorded on the morning of the 29<sup>th</sup>, when 7.2 °C was recorded.

Rainfall was 130.0mm, 179% of the average. The wettest days were 13<sup>th</sup> with 28.4mm and the 30<sup>th</sup> with 17.7mm.

## OCTOBER

Mild and wet. The warmest day was the 27<sup>th</sup> with 20.1 °C; the coldest day was the 14<sup>th</sup> with 16.1 °C recorded as the maximum temperature in Godshill. The coldest night was recorded on the 11<sup>th</sup> when the temperature fell to 5.0 °C.

The rainfall for October was above average at 133.3mm, 118% of the average for this month. The days with the highest rainfall totals were 12<sup>th</sup> with 32.2mm, 23<sup>rd</sup> with 24.8mm of rain. There were 18 days with rain recorded, compared to the average of 15.

Thunder was recorded on the 23<sup>rd</sup>.

## NOVEMBER

A very wet month, and also very mild. The warmest day was the 12<sup>th</sup> when 17.2 °C was recorded; the coldest day was 29<sup>th</sup> when the maximum recorded was 7.5 °C, both in Godshill. The lowest overnight temperature was recorded on the mornings of the 21<sup>st</sup> and the 30<sup>th</sup> when 3.7 °C was recorded. The maximum temperature exceeded 10 °C on 29 days in Godshill. No air frosts were recorded during the month.

298.8mm of rain fell during the month, which equated to 252% of the Climate Average. There were 22 days with rain recorded; the average is 16. The wettest day was the 5<sup>th</sup> with 44.7mm of rain, followed by 2<sup>nd</sup> with 42.3mm, 26<sup>th</sup> with 26.3mm, 16<sup>th</sup> with 24.1mm, 14<sup>th</sup> with 23.6mm 3<sup>rd</sup> with 20.7mm and the 6<sup>th</sup> with 20mm.

Gales were recorded on the 1<sup>st</sup>, 2<sup>nd</sup>, 21<sup>st</sup> and 23<sup>rd</sup>.

## DECEMBER

A cold and wet month. This was the first month to have below average temperature since August 2021. The highest temperature recorded was 13.5 °C on the 31<sup>st</sup>. The coldest day occurred on the 11<sup>th</sup> when the temperature reached 2.4 °C, both in Godshill. The lowest overnight temperature, -3.8 °C, was recorded on the 9<sup>th</sup>, one of nine air frosts recorded during December.

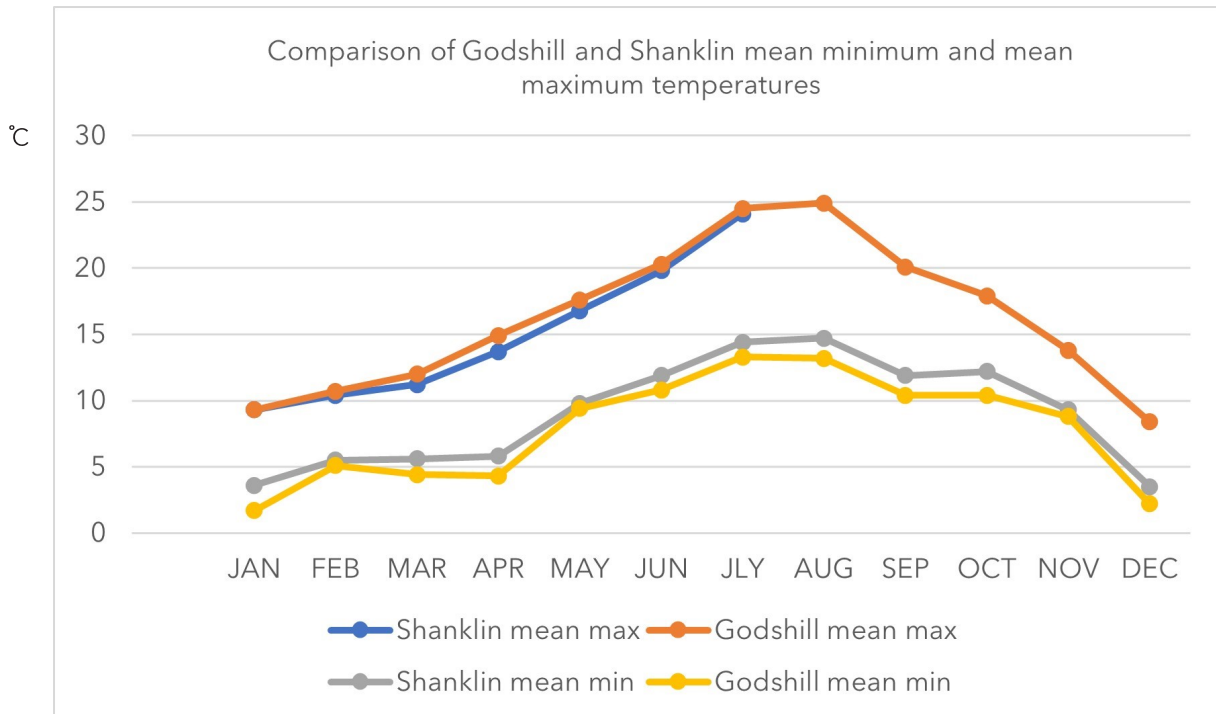
Rainfall amounted to 149.5mm and was 126% of the climate average. The wettest day was the 18<sup>th</sup> with 47.1mm: other high daily totals were recorded on the 27<sup>th</sup> with 19.3mm, the 22<sup>nd</sup> with 16.6mm and the 30<sup>th</sup> with 14.7mm. There were 17 days with rain recorded; the average is 16.

**Author:** Clive Cooper, Meteorological Observer  
20 Newport Road, Godshill, Isle of Wight, PO38 3HR

**Table 1: MONTHLY WEATHER SUMMARY - 2022**  
(Temperature data for Godshill in italics)

MONTH	AVERAGE TEMP. °C	MEAN MAX TEMP. °C.	MEAN MIN. TEMP. °C	RAINFALL mm	SUN
JANUARY	6.5	9.3 ( <i>9.3</i> )	3.6 ( <i>1.7</i> )	58.3	NR
FEBRUARY	7.9	10.4 ( <i>10.7</i> )	5.5 ( <i>5.1</i> )	66.3	NR
MARCH	8.4	11.2 ( <i>12.0</i> )	5.6 ( <i>4.4</i> )	44.8	NR
APRIL	9.7	13.7 ( <i>14.9</i> )	5.8 ( <i>4.3</i> )	26.2	NR
MAY	13.3	16.8 ( <i>17.6</i> )	9.8 ( <i>9.4</i> )	41.7	NR
JUNE	15.9	19.8 ( <i>20.3</i> )	11.9 ( <i>10.8</i> )	32.8	NR
JULY	19.3	24.1 ( <i>24.5</i> )	14.4 ( <i>13.3</i> )	12.1	NR
AUGUST		( <i>24.9</i> )	14.7 ( <i>13.2</i> )	79.8	NR
SEPTEMBER		( <i>20.1</i> )	11.9 ( <i>10.4</i> )	130.0	NR
OCTOBER		( <i>17.9</i> )	12.2 ( <i>10.4</i> )	133.3	NR
NOVEMBER		( <i>13.8</i> )	9.3 ( <i>8.8</i> )	298.8	NR
DECEMBER		( <i>8.4</i> )	3.5 ( <i>2.2</i> )	149.5	NR
<b>YEARLY FIGURE</b>			<b>9.0</b>	<b>1073.6</b>	<b>NR</b>

NR Not recorded



**Fig.1:** Comparison of Godshill and Shanklin mean minimum and mean maximum temperatures suggesting that proximity to the sea has a moderating effect on temperatures. Maxima are lower and minima are higher in Shanklin than Godshill.