

# STITHIANS WEATHER SUMMARY

## AUGUST 2019

HIGHEST MAXIMUM TEMPERATURE	23.6C (02nd)
HIGHEST MINIMUM TEMPERATURE	16.2C (09th)
LOWEST MAXIMUM TEMPERATURE	15.1C (28th)
LOWEST MINIMUM TEMPERATURE	07.2C (29th)
MEAN MAXIMUM TEMPERATURE	19.7C (10YR) 19.0C (31YR) 19.0C
MEAN MINIMUM TEMPERATURE	12.3C (10YR) 11.8C (31YR) 11.7C
MEAN TEMPERATURE FOR MONTH	16.0C (10YR) 15.4C (31YR) 15.3C
MAX. DAILY TEMPERATURE RANGE	15.1C (02nd)
MEAN DAILY TEMPERATURE RANGE	07.4C
TOTAL RAINFALL	146.3MM (10YR) 110.5MM (31YR) 103.5MM
MAXIMUM RAINFALL IN 24 HOURS	33.1MM (16th)
RAIN DAYS (0.2MM OR MORE)	21
WET DAYS (1.0MM OR MORE)	15
DAYS WITH RAIN INCLUDED	24
DAYS WITH HAIL	00
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	00
MAXIMUM ATMOSPHERIC PRESSURE	1027.0 MB (20 <sup>th</sup> & 21st)
MINIMUM ATMOSPHERIC PRESSURE	993.0 MB (09th)
MEAN ATMOSPHERIC PRESSURE	1016.6 MB (31YR MEAN) 1014.7 MB
MEAN SOUTHWEST SEA TEMPERATURE	17.8C (AUG 1986-2018 AVE) 17.1C
10YR RUNNING MEAN SW SEA TEMP	(AUG 2009-2018) 16.9C

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## NOTES

SYNOPTIC SITUATION: ON THE 1ST THERE WAS A WEAK RIDGE WHICH CONTINUED ON THE 2ND.

ON THE 3RD A WEAK OCCLUSION CLEARED EARLY WHICH HAPPENED AGAIN ON THE 4TH.

EARLY ON THE 5TH A COLD FRONT CLEARED AWAY EASTWARDS BEING FOLLOWED BY A SHOWERY SW AIRSTREAM.

ON THE 6TH, TWO OCCLUSIONS MOVED SE AND CLEARED EARLY AFTERNOON AS A LOW (999MB) MOVED NE ACROSS NORTHERN IRELAND. BY THE 7TH THE LOW (997MB) HAD MOVED TO NE SCOTLAND WHILST TRAILING A WEAK OCCLUSION TO BODMIN MOOR.

ON THE 8TH A LOW (979MB) AT 46N/20W EXTENDED AN ACTIVE WARM FRONT & THEN A FRONTAL SYSTEM UP ACROSS THE REGION.

BY THE 9TH THE LOW (981MB) WAS POSITIONED AT 50N/11W & TWO SHOWERY OCCLUSIONS WERE AFFECTING THE REGION.

BY THE 10TH THE LOW WAS 990MB NE ENGLAND & THERE WAS A STRONG SW AIRSTREAM. THE 11TH SAW A SHOWER TROUGH SLOWLY CLEARING SOUTHEASTWARDS DURING THE AFTERNOON & ON THE 12TH A WEAK COLD FRONT CLEARED AS A WEAK RIDGE PUSHED IN FROM THE WEST.

ON THE 13TH A WEAK RIDGE WAS INTERSECTED BY A WARM FRONT. BY 14TH A FRONTAL SYSTEM WAS COVERING THE REGION WHICH CLEARED LATER AS A WEAK RIDGE ARRIVED ON THE 15TH. ON THE 16TH AN ACTIVE FRONTAL SYSTEM PERSISTED ALL DAY & EVENING BEFORE CLEARING BY MIDNIGHT.

ON THE 17TH THERE WAS A SLIGHTLY SHOWERY SW AIRSTREAM WHICH CONTINUED ON THE 18TH & 19TH AS WINDS VEERED WESTERLY. ON THE 20TH THERE WAS A RIDGE OF HIGH PRESSURE WHICH PERSISTED DURING THE 21ST & 22ND. BY THE 23RD, A HIGH (1030MB) EAST GERMANY EXTENDED A RIDGE TO AND OVER THE UK & NE BISCAY, IN TURN INTRODUCING A WARMER CONTINENTAL AIRSTREAM.

ON THE 24TH THE PRESSURE DECLINED. BY THE 25TH THERE WAS A WEAK COLD FRONT WHICH BROKE UP AND MOVED AWAY EASTWARDS, BEING FOLLOWED BY A WEAK RIDGE. ON THE 26TH THE WEAK RIDGE PERSISTED AS A SHOWER TROUGH EDGED UP FROM THE SOUTH DURING THE EVENING CLEARED OVERNIGHT LEAVING A WEAK RIDGE FOR THE 27TH BEFORE A SHOWER TROUGH CLEARED LATE EVENING.

AN ACTIVE COLD FRONT CLEARED EARLY AFTERNOON ON THE 28TH BEFORE A RIDGE ARRIVED FOR THE 29TH WHICH PERSISTED INTO THE 30TH. ON THE 31ST A COLD FRONT CLEARED EARLY MORNING, FOLLOWED BY A WEAK RIDGE LATER.

THE MAIN ATLANTIC JET STREAM WAS TO THE NW OF THE UK FROM THE 23RD-27T., IT WAS TO THE W ON THE 21ST & 29<sup>TH</sup> AND WAS POSITIONED OVER THE UK ON THE 5TH, 8TH, 9TH, 16TH-18TH, 22ND, 28TH, 30TH & 31ST. IT WAS TO THE SW FROM THE 1ST TO THE 4TH INCLUSIVE, AND THE 7TH & 12TH-15<sup>TH</sup>. IT WAS TO THE S ON THE 6TH, 10TH, 11TH, 19TH & 20TH. IT WAS FRAGMENTED ON THE 2ND, 20TH & 21ST AND BEGAN TO STRENGTHEN IN THE LAST FEW DAYS OF THE MONTH.

EXCEPT FOR A SHORT-LIVED DRIER SPELL FROM THE 21ST-24TH INCLUSIVE, AUGUST WAS A CHANGEABLE MONTH WITH PLENTY OF RAIN. GENERALLY, IT WAS SLIGHTLY WARMER THAN AVERAGE ALTHOUGH WE DID NOT SEE ANY OF THE RECORD-BREAKING HEAT THAT OCCURRED ELSEWHERE!

ENGLAND HAD THE HOTTEST EVER AUGUST BANK HOLIDAY WEEKEND WITH LONDON'S HEATHROW AIRPORT RECORDING A MAX TEMP OF 33.2C! IT EVENTUALLY TURNED OUT TO BE THE WETTEST AUGUST HERE SINCE 2015, WITH A NUMBER OF WET DAYS INCLUDING 26.4MM ON THE 8TH, 13.0MM ON THE 9TH, 11.3MM ON THE 11TH, 11.9MM ON THE 13TH & 12.4MM ON THE 28TH.

THE MEAN MAX. TEMPERATURE WAS EXACTLY THE SAME AS AUGUST 2018 AND IT WAS THE 'HIGHEST' LOWEST MIN TEMPERATURE IN ANY AUGUST SINCE 2004. THE MEAN SW SEA TEMPERATURE WAS THE HIGHEST IN ANY AUGUST SINCE 2013.

THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 39KT (45 MPH) DURING THE EARLY MORNING OF THE 10TH AND THE MAIN WIND DIRECTION RECORDED WAS WESTERLY, FOLLOWED BY SOUTHWESTERLY.

**AN EARTH TREMOR (HEARD HERE IN STITHIANS) OCCURRED AT 1652 GMT ON THE 9<sup>TH</sup> MEASURING 2.2 MAGNITUDE AND OCCURRED AROUND 5KM SW OF FALMOUTH AT A DEPTH OF 2.8KM. IT WAS ALSO RECORDED BY THE CARMENELLIS SEISMOGRAPH STATION.**

THE SUMMER AS A WHOLE WAS THE WETTEST SINCE 2017 AND THE MEAN MAX. TEMPERATURE, ALTHOUGH LOWER THAN IN 2018, WAS NEVERTHELESS THE HIGHEST SINCE 2014. THE MEAN MIN. TEMPERATURE WAS THE LOWEST SINCE 2015 AND THE MEAN TEMPERATURE WAS THE SAME AS 2017.

ALL READINGS DONE BY PAUL RICHARDS AT 40 CRELOW FIELDS, STITHIANS.  
OBSERVATIONS ARE DONE AT 0900GMT & 2100GMT DAILY THROUGHOUT THE YEAR.  
WE ARE A MET OFFICE REGISTERED RAINFALL STATION (379547) THROUGH THE  
ENVIRONMENT AGENCY IN BODMIN. (DAILY RAINFALL DATA IS RETURNED ON A  
MONTHLY BASIS). THE STATION HEIGHT IS 120M (396FT) ABOVE MSL. WE ALSO  
SUPPLY MONTHLY DATA TO THE WEATHER OBSERVERS NETWORK IN COLCHESTER,  
ESSEX & WEEKLY DATA TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH.