

# STITHIANS WEATHER SUMMARY

## NOVEMBER 2019

HIGHEST MAXIMUM TEMPERATURE	14.9C (01st)
HIGHEST MINIMUM TEMPERATURE	12.6C (01st)
LOWEST MAXIMUM TEMPERATURE	06.0C (14th)
LOWEST MINIMUM TEMPERATURE	-01.4C (08th)
MEAN MAXIMUM TEMPERATURE	10.0C (10YR) 10.9C (31YR) 10.7C
MEAN MINIMUM TEMPERATURE	05.4C (10YR) 06.0C (31YR) 05.7C
MEAN TEMPERATURE FOR MONTH	07.7C (10YR) 08.4C (31YR) 08.2C
MAX. DAILY TEMPERATURE RANGE	11.9C (19th)
MEAN DAILY TEMPERATURE RANGE	04.6C
TOTAL RAINFALL	253.4MM (10YR) 177.9MM (31YR) 165.0MM
MAXIMUM RAINFALL IN 24 HOURS	32.6MM (22nd)
RAIN DAYS (0.2MM OR MORE)	28
WET DAYS (1.0MM OR MORE)	25
DAYS WITH RAIN INCLUDED	30
DAYS WITH HAIL	06
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	03
MAXIMUM ATMOSPHERIC PRESSURE	1019.0 MB (18th)
MINIMUM ATMOSPHERIC PRESSURE	979.0 MB (02 <sup>nd</sup> & 27th)
MEAN ATMOSPHERIC PRESSURE	1000.8 MB (31YR MEAN) 1014.0 MB
MEAN SOUTHWEST SEA TEMPERATURE	12.8C (NOV 1986-2018 AVE) 13.0C
10YR RUNNING MEAN SW SEA TEMP	(NOV 2009-2018) 13.1C

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## NOTES

GENERAL SYNOPTIC SITUATION: ON 1ST A FRONTAL SYSTEM ARRIVED FROM THE SW AS A LOW (977MB) W OF IRELAND DEEPENED & CROSSED WALES OVERNIGHT. THIS ACTIVE DEPRESSION WAS CENTRED OVER LINCOLNSHIRE (970MB) BY 1200 GMT ON THE 2ND AS IT'S WRAPPED AROUND OCCLUSION AFFECTED ALL AREAS OF THE UK.

ON THE 3RD A SHOWERY WESTERLY AIRSTREAM COVERED THE REGION. BY THE 4TH A SHOWERY LOW (979MB) OFF OF THE N CORNISH COAST MOVED SLOWLY SE DURING THE DAY.

ON THE 5TH THERE WAS A SHOWERY NORTHERLY AIRSTREAM AS A QUASI-STATIONARY SHOWER TROUGH LAY BETWEEN SE IRELAND & WEST CORNWALL AND BY THE 6TH THERE WAS A VERY SLIGHT, WEAK RIDGE. THIS RIDGE COLLAPSED AND AN ACTIVE OCCLUSION MOVED ACROSS LATE IN THE DAY.

BY THE 7TH A LOW (991MB) HAD DEVELOPED JUST WEST OF THE ISLES OF SCILLY WHICH CONTINUED TO DRIFT INTO WESTERN FRANCE ON THE 8TH AS THE OCCLUSION MOVED AWAY AND A WEAK RIDGE MOVED IN FROM THE WEST. THIS COLLAPSED OVERNIGHT AS A SHOWER TROUGH AFFECTED THE REGION ON THE 9TH.

BY THE 10TH THERE WAS ANOTHER WEAK RIDGE. THE 11TH SAW A LOW (985MB) OVER THE WESTERN ISLES BRINGING A SHOWERY WESTERLY AIRSTREAM WHICH CONTINUED ON THE 12TH AS WINDS VEERED NORTHWESTERLY.

ON THE 13TH AN EARLY WEAK RIDGE COLLAPSED AS AN ACTIVE COLD FRONT CLEARED BY LATE-AFTERNOON. BY THE 14TH A LOW (996MB) WAS OVER N. BRITTANY AS AN OCCLUSION PERSISTED OVER THE REGION. BY THE 15TH THERE WAS A SHOWERY NORTHERLY AIRSTREAM AS THE LOW (998MB) MOVED AWAY INTO NORTHERN FRANCE.

ON THE 16TH A WEAK OCCLUSION LINGERED AS A LIGHT NORTHERLY AIRSTREAM PERSISTED. THIS SITUATION CONTINUED ON THE 17TH AND BY 18TH THERE WAS A RIDGE OF HIGH PRESSURE.

AN OCCLUSION ARRIVED BY MIDDAY ON THE 19TH WHICH BECAME SLOW MOVING FOR THE REMAINDER OF THE DAY AND INTO THE 20TH. THIS OCCLUSION CLEARED EARLY ON THE 21ST.

BY THE 22ND A LOW (976MB) HAD FORMED WEST. BISCAY WHICH PUSHED AN ACTIVE OCCLUSION NORTHWARDS DURING EARLY AFTERNOON WHICH PERSISTED DURING THE EVENING AND OVERNIGHT.

ON THE 23RD THE OCCLUSION MOVED AWAY WESTWARDS AND DIED OUT.

ON THE 24TH AN OCCLUSION MOVED UP FROM THE SW DURING THE AFTERNOON AND EVENING. MEANWHILE, AT 1800 GMT EX-SUB TROPICAL STORM 'SEBASTIEN' FIRST SHOWED UP AT 38N/35W WITH A CENTRAL PRESSURE OF 1000MB.

BY THE 25TH A SHOWERY W AIRSTREAM HAD ARRIVED AND THE EX-TRS 'SEBASTIEN' HAD MOVED TO 42.5N/26W BY 0600 GMT. IT'S FRONTAL SYSTEM ARRIVED LATE-EVENING, CLEARING OVERNIGHT.

BY THE 26TH THE LOW (979MB) WAS AT 50.1N/10.1W AT 0600 GMT BRINGING A STRONG, SHOWERY SW AIRSTREAM TO THE REGION. THIS CONTINUED ON THE 27TH AS THE LOW (981MB) DRIFTED TO THE ISLE OF WIGHT AND IT'S OCCLUSION GRADUALLY MOVED AWAY SOUTHWARDS.

ON THE 28TH AN ISOBARIC TROUGH WITH AN EMBEDDED OCCLUSION MOVED SOUTHWARDS. THIS BECAME SLOW MOVING OVER THE REGION ON THE 29TH, WHILE AT THE SAME TIME BREAKING UP, ALLOWING A WEAK RIDGE TO DEVELOP.

ON THE 30TH AN OCCLUSION EDGED UP FROM THE SW AS A LOW (999MB) AT 50N/16W AT 0600 GMT DRIFTED AWAY SOUTHEASTWARDS.

THE PREDOMINANT ATLANTIC JET STREAM WAS STRONG AND MAINLY TO THE SW OF THE BRITISH ISLES. IT WAS OVER THE UK ON THE 8TH, 10TH & 18TH. IT WAS TO THE WEST ON THE 1ST-3RD AND THE 19TH. IT WAS TO THE SW ON THE 5TH-7TH, THE 9TH, 11TH-17TH, 20TH-27TH AND 30<sup>TH</sup>. IT WAS TO THE SOUTH ON THE 4TH, 28TH AND 29TH.

NOVEMBER WAS A VERY WET MONTH WITH SLIGHTLY BELOW AVERAGE TEMPERATURES. IT WAS ALSO VERY CHANGEABLE AND OFTEN WINDY. LOW PRESSURE WAS DOMINANT AND ANY HIGH PRESSURE WAS ALMOST NON-EXISTENT! MANY OF THE DAYS WERE WET WITH HEAVIEST 24HR. FALLS INCLUDING 25.4MM ON THE 1<sup>ST</sup>, 11.0MM ON THE 4<sup>TH</sup>, 21.1MM ON THE 6<sup>TH</sup>, 10.2MM ON THE 8<sup>TH</sup>, 18.7MM ON THE 13<sup>TH</sup>, 13.3MM ON THE 14<sup>TH</sup>, 20.9MM ON THE 19<sup>TH</sup>, 32.6MM ON THE 22<sup>ND</sup>, 11.1MM ON THE 24<sup>TH</sup> AND 16.8MM ON THE 27<sup>TH</sup>.

RAIN WAS RECORDED ON EVERY SINGLE DAY OF THE MONTH!

HAIL OCCURRED ON 2ND (EARLY HOURS), THE 7TH (0605 & 0849 GMT), THE 9TH (1533 GMT), THE 11TH (1049 & 1054 GMT), THE 13TH (1400 GMT) AND THE 14TH (EARLY HOURS). THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 46KT (52 MPH) DURING THE EARLY HOURS OF THE 2ND AND THE MAIN WIND DIRECTION WAS AGAIN WESTERLY, (13 DAYS) FOLLOWED BY NORTHERLY (6 DAYS).

THE MEAN MAX TEMPERATURE WAS THE LOWEST FOR ANY NOVEMBER SINCE 2010 AND THERE WAS THE HIGHEST NUMBER OF AIR FROSTS IN ANY NOVEMBER SINCE 2000.

AUTUMN AS A WHOLE WAS THE WETTEST FOR ANY AUTUMN SINCE 2000. THE NUMBER OF DAYS WITH RAIN RECORDED (81 DAYS) WAS EXACTLY EQUAL TO 2000. THE MEAN MAX TEMP. WAS THE COLDEST IN ANY AUTUMN SINCE 2012 AND THE MEAN TEMPERATURE (10.8C) WAS EXACTLY THE SAME AS IN AUTUMN 2018.

ALL READINGS DONE BY PAUL RICHARDS AT 40 CRELOW FIELDS, STITHIANS. MAIN OBSERVATIONS ARE CARRIED OUT 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 AND WEEKLY DATA TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH.