

# STITHIANS WEATHER SUMMARY

## OCTOBER 2021

HIGHEST MAXIMUM TEMPERATURE	18.1C (18th)
HIGHEST MINIMUM TEMPERATURE	16.1C (19th)
LOWEST MAXIMUM TEMPERATURE	12.2C (21st)
LOWEST MINIMUM TEMPERATURE	02.3C (22nd)
MEAN MAXIMUM TEMPERATURE	15.3C (10YR) 14.3C (33YR) 13.8C
MEAN MINIMUM TEMPERATURE	09.2C (10YR) 08.5C (33YR) 08.2C
MEAN TEMPERATURE FOR MONTH	12.2C (10YR) 11.4C (33YR) 11.0C
MAX DAILY TEMPERATURE RANGE	14.2C (13th)
MEAN DAILY TEMPERATURE RANGE	06.1C
TOTAL RAINFALL FOR THE MONTH	222.7 MM
TOTAL RAINFALL (10 YRS RUNNING MEAN)	149.9 MM
TOTAL RAINFALL (33 YRS LONG TERM AV)	144.4 MM
MAXIMUM RAINFALL IN 24 HOURS	40.7 MM (28th)
RAIN DAYS (0.2MM OR MORE)	20
WET DAYS (1.0MM OR MORE)	15
DAYS WITH RAIN INCLUDED	23
DAYS WITH HAIL	00
DAYS WITH THUNDER	01
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	00
MAXIMUM ATMOSPHERIC PRESSURE	1033.0 MB (11th)

MINIMUM ATMOSPHERIC PRESSURE	988.0 MB (20 <sup>th</sup> & 31 <sup>st</sup> )
MEAN ATMOSPHERIC PRESSURE	1015.2 MB (33YR MEAN) 1013.5 MB
MEAN SW SEA TEMP	
(OCTOBER 1986-2020 AV)	14.6C
10YR RUNNING MEAN SW SEA TEMP	
(OCTOBER 2011-2020)	14.6C
MEAN SW SEA TEMP SEPTEMBER 2021:	14.9C

### NOTES

SYNOPTIC SITUATION: ON THE 1ST A COLD FRONT CLEARED EARLY AS A SHOWERY WESTERLY AIRSTREAM SPREAD IN.

ON THE 2ND AN ACTIVE FRONTAL SYSTEM MOVED UP FROM THE SW BEFORE IT'S COLD FRONT CLEARED IN THE LATE AFTERNOON.

THE 3RD SAW A SHOWERY WESTERLY AIRSTREAM AFTER A SHOWER TROUGH MOVED AWAY.

ON THE 4TH THERE WAS A SHOWERY SW AIRSTREAM BEFORE ANOTHER ACTIVE FRONTAL SYSTEM ARRIVED FROM THE SOUTHWEST, TOGETHER WITH A LOW (998MB).

BY 5TH THE LOW (992MB) HAD MOVED TO N E ENGLAND AS A SHOWERY WESTERLY AIRSTREAM AGAIN SPREAD IN.

ON THE 6TH A WEAK WARM FRONT WAS INTERSECTED BY A RIDGE OF HIGH PRESSURE.

THE 7TH SAW A MOIST SW AIRSTREAM AND A RIDGE OF HIGH PRESSURE EXTENDING TO S AND SW ENGLAND FROM A HIGH (1028MB) IN W FRANCE.

BY THE 8<sup>TH</sup> A NEW HIGH (1043MB) HAD DEVELOPED OVER NW RUSSIA WHICH EXTENDED A RIDGE TO AND OVER THE UK. A MOIST E TO SE AIRSTREAM COVERED CORNWALL.

ON THE 9TH A HIGH (1029MB) NE OF THE AZORES LINKED TO THE HIGH (1029MB) N W RUSSIA WHILE A MOIST EASTERLY AIRSTREAM CONTINUED.

BY THE 10TH A NEW HIGH (1034MB) HAD FORMED AT 52N/15W (WSW OF IRELAND) WHICH EXTENDED A RIDGE TO AND OVER THE UK.

BY THE 11TH THIS HAD TRANSFERRED TO SHANNON. THIS SITUATION PERSISTED ON THE 12TH AND 13TH AS THE HIGH (1029MB) DRIFTED SOUTHEASTWARDS.

BY THE 14TH THE HIGH (1032MB) N ITALY STILL HAD A RIDGE TO AND OVER THE UK.

ON THE 15TH A WEAK COLD FRONT FROM NORFOLK TO THE SOUTH COAST OF IRELAND MOVED SLOWLY SOUTHWARDS AND DIED OUT.

THE 16TH SAW A WEAKENING RIDGE FROM A HIGH (1023MB) BELGIUM AND THEN ON THE 17TH THE HIGH (1022MB) S GERMANY STILL HAD A WEAK RIDGE TO SOUTH AND SOUTHWEST ENGLAND.

ON THE 18TH A FRONTAL SYSTEM MOVED UP FROM THE SW AS LOW PRESSURE BECAME ESTABLISHED IN MID-ATLANTIC (986MB).

ON THE 19TH THERE WAS A VERY MILD SW AIRSTREAM AND A WARM SECTOR, BEFORE THE COLD FRONT CLEARED OVERNIGHT.

ON THE 20TH A LOW (996MB) WATERFORD AT 0600 GMT DEEPENED AND BECAME DOUBLE-CENTRED (986MB & 987MB) WESTERN ENGLISH CHANNEL AND OVER W CORNWALL AT 1800 GMT (STORM 'AURORE').

OVERNIGHT THE LOW MOVED AWAY TO THE BALTIC (974MB) LEAVING A FRESH W/NW AIRSTREAM IN ITS WAKE FOR THE 21ST.

ON THE 22ND THERE WAS A RIDGE OF HIGH PRESSURE AND A NW AIRSTREAM.

ON THE 23RD A RIDGE (FROM A HIGH 1030MB N ITALY) PERSISTED OVER ENGLAND.

ON THE 24TH A COLD FRONT CLEARED AWAY EASTWARDS.

ON THE 25TH A SHOWERY SW AIRSTREAM PREVAILED.

ON THE 26TH A WARM FRONT WAS FOLLOWED BY A BROAD WARM SECTOR AS A LOW (963MB) WAS SLOW MOVING AT 60N/30W.

THIS SITUATION CONTINUED ON THE 27TH.

ON THE 28TH A WAVING COLD FRONT REMAINED SLOW MOVING OVER CORNWALL BEFORE A LOW (996MB) MOVED UP FROM THE SW.

THIS CLEARED OVERNIGHT LEAVING A SLIGHT RIDGE FOR THE 29TH AS THE LOW (986MB) MOVED INTO NORTH WALES AND A THUNDERY SHOWER TROUGH WENT THROUGH DURING THE LATE EVENING.

THERE WAS A SHOWERY SW AIRSTREAM ON THE 30TH.

AN ACTIVE FRONTAL SYSTEM PASSED THROUGH DURING THE EARLY HOURS OF THE 31ST, AFTER WHICH THERE WAS A SHOWERY SW FLOW AND A LOW (975MB) WAS SITUATED JUST WEST OF GALWAY.

THE MAIN ATLANTIC JET STREAM BECAME STRONGER AND MORE ORGANISED. IT WAS TO THE NORTH FROM THE 13TH-16TH AND TO THE NORTHWEST FROM THE 7TH-10TH. IT WAS TO THE WEST ON THE 22ND, 25TH AND 26TH. IT WAS OVER THE UK FROM THE 1ST-3RD, 6TH, 11TH-12TH, 17TH-20TH, 24TH AND 17TH-29<sup>TH</sup>. IT WAS TO THE SOUTHWEST ON THE 4TH AND 5TH, 21ST AND 23RD AND THE 30TH-31ST.

OCTOBER WAS WET WITH ABOVE AVERAGE TEMPERATURES. THE MONTH WAS CHANGEABLE WITH SOME HEAVY 24HR RAINFALL AMOUNTS, INCLUDING 19.7MM ON THE 04TH, 10.6MM ON THE 8TH, 30.9MM ON THE 19TH, 32.9MM ON THE 20TH, 40.7MM ON THE 28TH, 22.8MM ON 29TH AND 14.6MM ON THE 30TH.

THERE WERE A FEW DRY DAYS, FROM 10TH-14TH INCLUSIVE.

THE MEAN MAX. TEMP. WAS THE HIGHEST IN ANY OCTOBER SINCE 2014. THE MEAN MIN. TEMP AND MEAN TEMP WERE THE HIGHEST IN ANY OCTOBER SINCE 2017. THE HIGHEST MIN TEM. IS A NEW RECORD 'HIGHEST' FOR ANY OCTOBER RECORDED SO FAR.

IT WAS THE WETTEST OCTOBER SINCE 2019 AND IT WAS THE THIRD OCTOBER IN A ROW WITH A RAINFALL TOTAL IN EXCESS OF 200MM.

THERE WAS THUNDER (TO THE SW) AT 2100 GMT, 2120 GMT AND 2230 GMT ON THE 29TH.

THE MAXIMUM (ESTIMATED) WIND GUST WAS 39KT (45 MPH) AT 1735 GMT ON THE 20TH DURING WIND AND RAIN SQUALLS. (THIS WAS ASSOCIATED WITH STORM 'AURORE').

THE PREDOMINANT WIND DIRECTION DURING THE MONTH WAS SOUTHWESTERLY.

PLEASE NOTE THAT WE HAVE A VERY INFORMATIVE AND MUCH MORE DETAILED WEBSITE WHICH CAN BE FOUND AT: [stithiansweather.co.uk](http://stithiansweather.co.uk)

ALL READINGS TAKEN BY PAUL RICHARDS AT 40 CRELOW FIELDS, STITHIANS. MAIN OBSERVATIONS ARE CARRIED OUT AT 0900 GMT AND 2100 GMT DAILY THROUGHOUT THE YEAR. WE ARE A METEOROLOGICAL 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 IS PASSED TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH.