

STITHIANS WEATHER SUMMARY

OCTOBER 2019

HIGHEST MAXIMUM TEMPERATURE	17.4C (05th)
HIGHEST MINIMUM TEMPERATURE	14.1C (26th)
LOWEST MAXIMUM TEMPERATURE	09.6C (28th)
LOWEST MINIMUM TEMPERATURE	00.6C (27th)
MEAN MAXIMUM TEMPERATURE	14.0C (10YR) 14.5C (31YR) 13.9C
MEAN MINIMUM TEMPERATURE	08.1C (10YR) 08.5C (31YR) 08.3C
MEAN TEMPERATURE FOR MONTH	11.0C (10YR) 11.5C (31YR) 11.1C
MAX. DAILY TEMPERATURE RANGE	13.1C (23rd)
MEAN DAILY TEMPERATURE RANGE	05.9C
TOTAL RAINFALL	285.3MM (10YR) 124.4MM (31YR) 138.0MM
MAXIMUM RAINFALL IN 24 HOURS	58.2MM (25th)
RAIN DAYS (0.2MM OR MORE)	25
WET DAYS (1.0MM OR MORE)	23
DAYS WITH RAIN INCLUDED	28
DAYS WITH HAIL	02
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	00
MAXIMUM ATMOSPHERIC PRESSURE	1025.0 MB (27th)
MINIMUM ATMOSPHERIC PRESSURE	997.0 MB (01st)
MEAN ATMOSPHERIC PRESSURE	1011.0 MB (31YR MEAN) 1013.8 MB
MEAN SOUTHWEST SEA TEMPERATURE	15.4C (OCT 1986-2018 AVE) 14.6C
10YR RUNNING MEAN SW SEA TEMP	(OCT 2009-2018) 14.6C

NOTES

GENERAL SYNOPTIC SITUATION: ON THE 1ST A SHOWERY WESTERLY AIRSTREAM COVERED THE REGION BEFORE A RIDGE ARRIVED ON THE 2ND & BY THE 3RD THERE WAS ANOTHER FRONTAL SYSTEM WHICH WAS ATTACHED TO A LOW (969MB) AT 54N/14W (EX-HURRICANE 'LORENZO'). THE COLD FRONT CLEARED MID-EVENING.

BY THE 4TH A STRONG WESTERLY AIRSTREAM HAD ARRIVED BEFORE A NEW FRONTAL SYSTEM EDGED IN DURING THE LATE AFTERNOON OF THE 5TH BEFORE CLEARING OVERNIGHT.

ON THE 6TH THERE WAS A TRANSIENT RIDGE OF HIGH PRESSURE BEFORE A NEW & ACTIVE FRONTAL SYSTEM CAME IN OVERNIGHT. THE ASSOCIATED COLD FRONT CLEARED EARLY EVENING OF THE 7TH.

A SHOWERY SW AIRSTREAM AFFECTED ALL PARTS ON THE 8TH WHICH CONTINUED ON THE 9TH AS A SHOWER TROUGH MOVED THROUGH IN THE AFTERNOON. BY THE 10TH A WARM FRONT WAS FOLLOWED BY A WARM SECTOR WHICH CONTINUED ON THE 11TH BEFORE A WAVING COLD FRONT SLOWLY EDGED IN DURING THE EVENING. THIS WAVING COLD FRONT PERSISTED ALL DAY ON THE 12TH AND INTO THE 13TH BEFORE A COLD FRONT CLEARED IN THE AFTERNOON.

ON THE 14TH A COLD FRONT SLOWLY MOVED IN FROM THE WEST BEFORE CLEARING & BEING FOLLOWED BY A WEAK RIDGE ON THE 15TH. DURING THE LATE AFTERNOON & EVENING OF THE 15TH A FRONTAL SYSTEM ARRIVED BEFORE CLEARING OVERNIGHT.

ON THE 16TH THERE WAS A WEAK RIDGE & ON THE 17TH A LOW (980MB) AT 55N/16W HAD A WRAPPED AROUND OCCLUSION OFF THE COAST OF NE ENGLAND.

BY THE 18TH A LOW (991MB) WATERFORD HAD BECOME THE DOMINATING FEATURE ACROSS THE UK & ON THE 19TH THIS LOW (997MB) WAS NEAR NE ENGLAND WHILST EXTENDING AN ISOBARIC TROUGH TO SW ENGLAND & BRITTANY.

BY THE 20TH A MODERATE NORTHERLY AIRSTREAM COVERED THE UK & ON THE 21ST THERE WAS A BUILDING RIDGE OF HIGH PRESSURE. THIS RIDGE PERSISTED ON THE 22ND BEFORE SLOWLY DECLINING LATER.

BY THE 23RD THERE WAS A SLACK AREA OF LOW PRESSURE. EARLY ON THE 24TH A COLD FRONT CLEARED AWAY EASTWARDS AS A WESTERLY AIRSTREAM ARRIVED, THEN A WARM FRONT APPROACHED LATE IN THE DAY. ON THE 25TH AN ACTIVE & WAVING COLD FRONT ARRIVED. BY THE 26TH THIS HAD SLOWLY MOVED AWAY TO THE SE BY EARLY EVENING ALLOWING A RIDGE (FROM A HIGH 1028MB AT 53N/20W) TO EXTEND OVER THE REGION ON THE 27TH.

ON THE 28TH THIS RIDGE DECLINED AS A FRONTAL SYSTEM EDGED UP FROM THE SOUTHWEST. THIS CONTINUED ON THE 29TH AS A BATTLEGROUND WAS SET UP BETWEEN A HIGH (1035MB) AT 60.5N/20W & A LOW (1003MB) AT 47.5N/18W BRINGING A STRONG NE/E AIRSTREAM ACROSS THE REGION. THIS SITUATION PERSISTED ON THE 30TH BEFORE THE OCCLUSION CLEARED LATE EVENING. ON THE 31ST A MILD & MOIST SW AIRSTREAM PERSISTED.

THE MAIN ATLANTIC JET STREAM WAS TO THE NORTH ON 22ND, IT WAS OVER THE UK ON THE 2ND-4TH, 6TH-14TH, 16TH-18TH, 21ST & 23RD & 25TH-28TH. IT WAS TO THE WEST ON THE 5TH. IT WAS TO THE SW ON THE 1ST, 15TH, 20TH, 24TH & 29TH-31ST. IT WAS TO THE SOUTH ON THE 19TH. TOWARDS THE END OF THE MONTH THE INTENSITY OF THIS UPPER AIR-FLOW INCREASED STEADILY.

OCTOBER'S MAIN CLAIM TO FAME WAS THE VERY HIGH LEVELS OF RAINFALL WHICH OCCURRED. WITH RAIN RECORDED ON EVERY DAY FROM THE 1ST-21ST INCLUSIVE, THE FINAL TOTAL WAS MORE THAN DOUBLE THE LONG TERM AVERAGE AND IT WAS THE WETTEST OCTOBER EVER RECORDED HERE! SOME OF THE DAYS WERE WET OR VERY WET WITH 24HR FALLS OF 26.9MM ON THE 6TH, 10.6MM ON THE 9TH, 12.4MM ON THE 10TH, 19.1MM ON THE 11TH, 12.6MM ON THE 15TH, 18.4MM ON THE 17TH, 58.2MM ON THE 25TH, 14.9MM, THE 20.3MM ON THE 29TH, 22.3MM ON THE 30TH & 10.2MM ON THE 31ST. 1MM DIA HAIL OCCURRED ON THE 17TH AT 1930 GMT AND AT 0855 GMT ON THE 18TH (BOTH DURING VERY HEAVY RAIN SHOWERS). FOG OCCURRED ON THE 7TH & THE 23RD.

TEMPERATURES MEANWHILE WERE VERY CLOSE TO NORMAL WITH NO REAL SURPRISES APART FROM THE MEAN SW SEA TEMPERATURE WHICH WAS THE HIGHEST IN ANY OCTOBER SINCE 2006.

THE MAIN WIND DIRECTION WAS WESTERLY, FOLLOWED BY SOUTHWESTERLY AND THE MAXIMUM (ESTIMATED) WIND GUST WAS 35KT (40 MPH) DURING THE EARLY HOURS OF THE 26TH.

ALL READINGS DONE BY PAUL RICHARDS AT 40 CRELOW FIELDS, STITHIANS. OBSERVATIONS ARE DONE AT 0900GMT & 2100GMT 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 & WEEKLY DATA TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH

