

STITHIANS WEATHER SUMMARY

OCTOBER 2018

HIGHEST MAXIMUM TEMPERATURE	18.4C (05th)
HIGHEST MINIMUM TEMPERATURE	15.8C (13th)
LOWEST MAXIMUM TEMPERATURE	07.5C (27th)
LOWEST MINIMUM TEMPERATURE	-05.8C (30th)
MEAN MAXIMUM TEMPERATURE	13.8C (10YR) 14.4C (30YR) 13.9C
MEAN MINIMUM TEMPERATURE	06.8C (10YR) 08.5C (30YR) 08.3C
MEAN TEMPERATURE FOR MONTH	10.3C (10YR) 11.4C (30YR) 11.1C
MAX. DAILY TEMPERATURE RANGE	14.3C (30th)
MEAN DAILY TEMPERATURE RANGE	07.0C
TOTAL RAINFALL	85.6MM (10YR) 131.7MM (30YR) 139.7MM
MAXIMUM RAINFALL IN 24 HOURS	27.7MM (11th)
RAIN DAYS (0.2MM OR MORE)	15
WET DAYS (1.0MM OR MORE)	09
DAYS WITH RAIN INCLUDED	19
DAYS WITH HAIL	02
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	03
MAXIMUM ATMOSPHERIC PRESSURE	1040.0 MB (21st)
MINIMUM ATMOSPHERIC PRESSURE	995.0 MB (11th)
MEAN ATMOSPHERIC PRESSURE	1018.5 MB (30YR MEAN) 1013.6 MB
MEAN SOUTHWEST SEA TEMPERATURE	14.0C (OCT 1986-2017 AVE) 14.7C
10YR RUNNING MEAN SW SEA TEMP	(OCT 2008-2017) 14.7C

NOTES

THE JET STREAM REMAINED FAIRLY STEADY DURING OCTOBER IT BEING MOSTLY TO THE NORTHWEST OF, OR DIRECTLY OVER, THE BRITISH ISLES. IT WAS TO THE NORTH ON THE 3RD, TO THE NW ON 4TH, 7TH, 8TH-10TH & 18TH-25TH. IT WAS TO THE WEST ON THE 27TH & 29TH-31ST. IT WAS POSITIONED OVER THE UK ON THE 1ST, 2ND, 5TH & 6TH, 11TH-17TH & 28TH.

ON THE 1ST A RIDGE OF HIGH PRESSURE COVERED THE BRITISH ISLES BEING REPLACED ON THE 2ND BY A WARM SECTOR. THIS PERSISTED ON THE 3RD. ON THE 4TH A RIDGE EXTENDED TO S ENGLAND (FROM A HIGH 1031MB NE ITALY), WHICH WAS COMBINED WITH A MOIST ESE AIRSTREAM WHICH CONTINUED ON THE 5TH.

BY THE 6TH A LOW (1006MB) W BRITTANY DRIFTED AWAY AS IT GRADUALLY CLEARED SE THROUGH THE REGION. ON THE 7TH A RIDGE (FROM A HIGH 1029MB 45N/15W) COVERED THE REGION. BY THE 8TH THE HIGH HAD TRANSFERRED TO W BRITTANY WHILE MAINTAINING A WEAK RIDGE TO S ENGLAND. ON THE 9TH A VERY MILD E/SE AIRSTREAM PREVAILED BEFORE A SHOWER TROUGH ARRIVED IN THE EVENING. ON 10TH A VERY MILD S/SE AIRSTREAM COVERED THE REGION. THE 11TH SAW A COLD FRONT CLEAR DURING LATE MORNING.

BY THE 12TH STORM 'CALLUM' (949MB) WAS AT 57.5N/12W AT 1200 GMT AFFECTING ALL AREAS. ON THE 3TH A WAVING COLD FRONT SLOWLY CLEARED DURING THE EVENING AND OVERNIGHT. THE 14TH SAW A VERY WEAK RIDGE OF HIGH PRESSURE DEVELOP WHICH PERSISTED ON THE 15TH AS A WEAK FRONTAL SYSTEM LINGERED IN THE MID ENGLISH CHANNEL.

ON THE 16TH A WEAK COLD FRONT OVER DEVON WAS SLOW MOVING AS A WEAK RIDGE LINGERED. ON THE 17TH THIS RIDGE SLOWLY BUILT TO BECOME A HIGH (1029MB) LINCOLNSHIRE ON 18TH & ON 19TH A HIGH (1027MB) STRETCHED A RIDGE TO A HIGH (1029MB) AZORES. BY THE 20TH A NEW HIGH (1032MB) HAD FORMED OVER NW FRANCE WHICH LINKED TO A HIGH (1033MB) AT 45N/40W.

ON THE 21ST THE WEAK RIDGE BEGAN TO DECLINE AS A VERY WEAK COLD FRONT EDGED SE ACROSS THE REGION DURING THE EVENING. THE 22ND SAW A HIGH (1046MB) AT 51N/21W EXTEND A STRONG RIDGE OVER THE UK. THIS SITUATION CONTINUED ON THE 23RD, 24TH & 25TH AS THE RIDGE BEGAN TO WEAKEN STEADILY.

ON THE 26TH A WEAK COLD FRONT CLEARED SE BY MIDDAY AS A HIGH (1040MB) AT 56N/29W LINKED UP TO A HIGH AT 71N/36W, SO OPENING UP A COLD AIRSTREAM DIRECTLY FROM THE ARCTIC. THIS COLD & SHOWERY N AIRSTREAM PERSISTED ON THE 27TH AS THE 'OMEGA' BLOCK TO THE W OF IRELAND TO SE ICELAND CONTINUED.

ON THE 28TH, A FRESH N/NE AIRSTREAM BECAME ESTABLISHED AND ON 29TH WHICH. BY THE 30TH A VERY WEAK RIDGE LINGERED AS WINDS FELL TO LIGHT OR VERY LIGHT. THE 31ST SAW A LOW (1001MB) FORMING W CORNWALL AS AN OCCLUSION BEGAN TO BECOME MORE ACTIVE.

OCTOBER EVENTUALLY TURNED OUT TO BE A MONTH OF CONTRASTS! ALTHOUGH THE FIRST TWO WEEKS WERE FAIRLY WARM, FROM MID-MONTH ONWARDS IT SLOWLY BECAME COOLER AND THERE WERE A NUMBER OF CHILLY NIGHTS. RAINFALL AMOUNTS WERE AGAIN LOW, ALTHOUGH AGAIN, MUCH OF THE MONTHLY RAINFALL FELL ON JUST 3 DAYS, NAMELY 27.7MM ON 11TH, 15.0MM ON 12TH & 13.9MM ON 13TH. IT WAS THE DRIEST OCTOBER HERE SINCE 2007. THE MEAN MIN. TEMP. WAS THE LOWEST FOR ANY OCTOBER SINCE 1993 & THE MEAN TEMP WAS THE LOWEST FOR ANY OCTOBER SINCE 2008. THE 30TH SAW THE LOWEST MIN. TEMP. EVER RECORDED IN OCTOBER HERE. THE NUMBER OF AIR FROSTS WAS THE HIGHEST IN ANY OCTOBER SINCE 2010 AND THE SW SEA TEMP. WAS THE LOWEST RECORDED FOR THE MONTH SINCE 1993. THE MEAN ATMOSPHERIC PRESSURE WAS EXACTLY THE SAME AS IN OCTOBER 2017. THE MONTH ALSO SAW THE HIGHEST ATMOSPHERIC PRESSURE SO FAR RECORDED IN ANY OCTOBER (EITHER HERE BACK TO 1987 AND BEFORE THAT, AT MY PREVIOUS STATION AT PENRYN WHERE RECORDS WENT BACK TO 1971!) HAIL OCCURRED ON 26TH (AT 1605 GMT) & ON THE 27TH AT VARIOUS TIMES DURING THE DAY & EVENING PERIOD. THE MAXIMUM (ESTIMATED) WIND GUST WAS 36KT (41 MPH) DURING THE EARLY MORNING OF THE 12TH. THE MAIN WIND DIRECTIONS WERE MOSTLY NW OR NORTHERLY (ALTHOUGH 7 OF THE DAYS WERE RECORDED AS 'CALM')

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.