

STITHIANS WEATHER SUMMARY

JANUARY 2019

HIGHEST MAXIMUM TEMPERATURE	10.8C (25th)
HIGHEST MINIMUM TEMPERATURE	09.3C (25th)
LOWEST MAXIMUM TEMPERATURE	04.9C (29th)
LOWEST MINIMUM TEMPERATURE	-04.2C (31st)
MEAN MAXIMUM TEMPERATURE	08.1C (10YR) 08.0C (31YR) 08.2C
MEAN MINIMUM TEMPERATURE	04.0C (10YR) 03.4C (31YR) 03.7C
MEAN TEMPERATURE FOR MONTH	06.0C (10YR) 05.7C (31YR) 05.9C
MAX. DAILY TEMPERATURE RANGE	11.0C (10th)
MEAN DAILY TEMPERATURE RANGE	04.1C
TOTAL RAINFALL	102.4MM (10YR) 189.0MM (31YR) 168.2MM
MAXIMUM RAINFALL IN 24 HOURS	24.6MM (31st)
RAIN DAYS (0.2MM OR MORE)	22
WET DAYS (1.0MM OR MORE)	15
DAYS WITH RAIN INCLUDED	23
DAYS WITH HAIL	04
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 01
AIR FROSTS (-00.1C OR BELOW)	05
MAXIMUM ATMOSPHERIC PRESSURE	1043.0 MB (02nd)
MINIMUM ATMOSPHERIC PRESSURE	980.0 MB (31st)
MEAN ATMOSPHERIC PRESSURE	1020.9 MB (31YR MEAN) 1016.0 MB
MEAN SOUTHWEST SEA TEMPERATURE	10.9C (JAN 1986-2018 AVE) 10.3C
10YR RUNNING MEAN SW SEA TEMP	(JAN 2009-2018) 10.6C

NOTES

THE PRIMARY ATLANTIC JET STREAM WAS POSITIONED OVER THE UK ON THE 8TH, 12TH-14TH, 16TH-17TH, 23RD-26TH & 28TH. IT WAS TO THE N ON THE 1-5TH, 15TH & 18TH. IT WAS TO THE NW ON THE 6TH, 7TH, 11TH, 20TH & 21ST AND TO THE W ON THE 22ND. IT WAS TO THE SW ON THE 19TH, 27TH, 29TH & 30TH AND TO THE S ON THE 31ST. IT WAS TO THE SE ON THE 10TH & TO THE E ON THE 9TH.

SYNOPTICALLY, FOR THE FIRST 11 DAYS THERE WAS A LARGELY HIGH-PRESSURE BLOCKING PATTERN. THEREAFTER, THE SITUATION BECAME MUCH MORE MOBILE AND CHANGEABLE. ON THE 1ST A HIGH (1038MB) OFF THE S COAST OF IRELAND LINKED TO ANOTHER (1038MB) SE ICELAND AS A WEAK NW AIRSTREAM DEVELOPED. BY THE 2ND THE HIGH HAD INTENSIFIED (1046MB) OVER N CUMBRIA AS IT BECAME THE DOMINANT FEATURE. A WEAK COLD FRONT CLEARED THE ISLES OF SCILLY & W CORNWALL DURING THE MORNING OF THE 2ND. ON THE 3RD THE HIGH (1044MB) WAS OVER E POWYS WHICH BY THE 4TH HAD MOVED TO S WALES (1043MB). BY THE 5TH IT WAS OVER THE CENTRAL ENGLISH CHANNEL (1041MB). BY THE 6TH IT HAD MOVED TO THE W OF BRITTANY AS A SLIGHTLY MILDER SW AIRSTREAM ARRIVED. BY THE 7TH THE HIGH (1041MB) HAD MOVED TO NW BISCAY WHILE MAINTAINING A STRONG RIDGE TO ENGLAND AS A FRONTAL SYSTEM MOVED INTO SCOTLAND & N ENGLAND. THE COLD FRONT CLEARED SOUTHWARDS DURING THE EVENING & OVERNIGHT. BY THE 8TH THE HIGH (1041MB) HAD DRIFTED TO 49N/14W WHICH BROUGHT A NORTHERLY AIRSTREAM TO ALL PARTS AS A RIDGE APPROACHED IRELAND. ON THE 9TH THE HIGH (1034MB) WAS AT 50N/15W WITH A RIDGE TO, AND OVER, THE UK. ON THE 10TH THE HIGH (1035MB) WAS AT 50N/10W AS A VERY WEAK WARM FRONT AFFECTED S & SW ENGLAND. BY THE 11TH THE HIGH (1039MB) AT 49N/14W HAD REGAINED CONTROL AS THE RIDGE OVER THE UK PERSISTED. ON THE 12TH A WEAK COLD FRONT CLEARED SOUTHWARDS EARLY AFTERNOON. A WEAKER RIDGE PERSISTED AS THE HIGH (1040MB) RETREATED TO 46N/20W. BY THE 13TH PRESSURE FELL STEADILY AS A COLD FRONT CLEARED FROM THE NORTH DURING THE EVENING. ON THE 14TH A RIDGE OF HIGH PRESSURE PUSHED IN FROM THE WEST. DURING THE 15TH THE RIDGE COLLAPSED AS A LARGE WARM SECTOR PERSISTED OVER THE BRITISH ISLES & ON THE 16TH A WEAK COLD FRONT CLEARED SOUTHEASTWARDS. ON THE 17TH A RIDGE MOVED IN FROM THE WEST & ON THE 18TH AN OCCLUSION EDGED IN FROM THE WEST WHICH CLEARED BY EARLY AFTERNOON. ON THE 19TH A SMALL LOW (1006MB) MOVED SE ACROSS THE REGION AND ON THE 20TH A SLACK AREA OF LOW PRESSURE GAVE WAY LATER TO AN INTENSIFYING RIDGE FROM THE WEST. THIS PERSISTED ON THE 21ST UNTIL A COLD FRONT MOVED THROUGH DURING THE EVENING. THE 22ND SAW A SLIGHTLY SHOWERY W AIRSTREAM COVER THE REGION & ON THE 23RD THERE WAS A WEAK RIDGE. THE 24TH SAW A WEAK WARM FRONT AND WARM SECTOR WHICH

CONTINUED ON THE 25TH. ON THE 26TH A MOIST WARM SECTOR WAS REPLACED AS A COLD FRONT CLEARED IN THE AFTERNOON. OVERNIGHT, A DEEP LOW (980MB) MOVED SE ACROSS SCOTLAND INTO THE W NORTH SEA BY 1200 GMT ON THE 27TH AS A SHOWERY NW AIRSTREAM MOVED IN. THIS CONTINUED ON THE 28TH. ON THE 29TH A FRONTAL SYSTEM MOVED SE & CLEARED AS A LOW (985MB) MOVED INTO NE FRANCE & ON THE 30TH THERE WAS A SLACK LOW PRESSURE AREA. ON THE 31ST AN OCCLUSION OVER CORNWALL SLOWLY MOVED AWAY SOUTHWARDS AS RAIN TURNED TO WIDESPREAD SNOWFALL RIGHT ACROSS THE REGION.

JANUARY WAS, IN MANY RESPECTS ANOTHER RATHER UNUSUAL MONTH! THE FIRST 10 DAYS WERE EITHER DRY OR HAD ONLY SMALL MOUNTS OF RAIN. IT THEN TURNED MUCH MORE UNSETTLED AS RAINFALL AMOUNTS INCREASED. THE ONLY REALLY WET DAYS WERE THE 26TH (15.2MM) AND 31ST (24.6MM).

JANUARY'S RAINFALL WAS WELL BELOW NORMAL AND MEAN TEMPERATURES WERE A LITTLE ABOVE AVERAGE.

HAIL WAS RECORDED ON THE 22ND, 27TH, 29TH & 30TH & SNOW OCCURRED ON THE 31ST BETWEEN 1415 GMT & 1530 GMT (SNOW DEPTH HERE 1-2CM).

THE PREDOMINANT WIND DIRECTION WAS WESTERLY, (FOLLOWED BY CALM & NORTHERLY). THE MAX (ESTIMATED) WIND GUST WAS 45KT (51 MPH) AT AROUND 0100 GMT ON THE 27TH.

THIS JANUARY SAW THE HIGHEST ATMOSPHERIC PRESSURE IN ANY JANUARY SINCE 1992 AND ALSO SAW THE LOWEST 'HIGHEST MAX. TEMP' IN ANY JANUARY SINCE 2009.

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.