

STITHIANS WEATHER SUMMARY

JANUARY 2018

HIGHEST MAXIMUM TEMPERATURE	12.1C (28th)
HIGHEST MINIMUM TEMPERATURE	09.5C (28th)
LOWEST MAXIMUM TEMPERATURE	04.2C (07th)
LOWEST MINIMUM TEMPERATURE	-02.9C (12th)
MEAN MAXIMUM TEMPERATURE	09.1C (10YR) 08.1C (30YR) 08.2C
MEAN MINIMUM TEMPERATURE	04.5C (10YR) 03.4C (30YR) 03.7C
MEAN TEMPERATURE FOR MONTH	06.8C (10YR) 05.7C (30YR) 05.9C
MAX. DAILY TEMPERATURE RANGE	11.2C (12th & 30th)
MEAN DAILY TEMPERATURE RANGE	04.6C
TOTAL RAINFALL	233.6MM (10YR) 181.6MM (30YR) 166.0MM
MAXIMUM RAINFALL IN 24 HOURS	24.8MM (21st)
RAIN DAYS (0.2MM OR MORE)	26
WET DAYS (1.0MM OR MORE)	25
DAYS WITH RAIN INCLUDED	28
DAYS WITH HAIL	05
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	06
MAXIMUM ATMOSPHERIC PRESSURE	1034.0 MB (28th)
MINIMUM ATMOSPHERIC PRESSURE	992.0 MB (05th)
MEAN ATMOSPHERIC PRESSURE	1011.0 MB (30YR MEAN) 1016.2 MB
MEAN SOUTHWEST SEA TEMPERATURE	10.6C (JAN 1986-2017 AVE) 10.3C
10YR RUNNING MEAN SW SEA TEMP	(JAN 2008-2017) 10.6C

NOTES

THE MAIN ATLANTIC JET STREAM WAS DIRECTLY OVER THE U.K. ON 2ND, 4TH, 5TH, 16TH, 18TH, 20TH, 21ST, 23RD, 24TH, 25TH AND FROM 27TH – 31ST INCLUSIVE. IT WAS TO THE SOUTHWEST ON 3RD, 7TH, 8TH, 10TH, 17TH & 19TH. IT WAS TO THE WEST ON 11TH-15TH & ON 22ND & 26TH, TO THE SOUTH ON 9TH & TO THE SOUTHEAST ON 6TH.

THE SYNOPTIC SITUATION WAS CONSTANTLY CHANGING AND WAS VERY MOBILE. ON THE 1ST A SMALL LOW (989MB) SOUTH OF THE ISLES OF SCILLY CLEARED EASTWARDS, BEING FOLLOWED BY A WEAK RIDGE. THE 2ND SAW STORM 'ELEANOR' MOVE ACROSS THE NORTH OF IRELAND AND IT'S ASSOCIATED COLD FRONT CLEARED AROUND 2100GMT. BY 3RD, STORM 'ELEANOR' HAD MOVED INTO THE NORTH SEA AS A STRONG W/NW AIRSTREAM COVERED THE UK DURING THE EVENING OF THE 3RD A FRONTAL SYSTEM MOVED IN FROM THE WEST. THIS CLEARED EARLY ON THE 4TH BEFORE A SMALL LOW AND AN OCCLUSION ARRIVED LATE IN THE EVENING. THE 5TH SAW A SMALL LOW AND A SHOWER TROUGH TRAVERSING EASTWARDS ACROSS THE REGION AND 6TH HAD A SLACK LOW (1001MB) SW OF THE ISLES OF SCILLY. ON THE 7TH A HIGH (1033MB) HAD FORMED OVER SOUTHERN SCOTLAND AS A COLD AND FRESH N/NE AIRSTREAM AFFECTED THE REGION WHICH PERSISTED THROUGHOUT. BY THE 8TH A WARM FRONT HAD MOVED UP FROM NORTHERN FRANCE BRINGING A STRENGTHENING EASTERLY BREEZE AND THIS CONTINUED ON THE 9TH. THE 10TH SAW A VERY WEAK RIDGE AND A SMALL LOW AND OCCLUSION TO THE SW AND BY 11TH THIS HAD MOVED TO BRITTANY AS A VERY WEAK RIDGE DEVELOPED AND THIS STRENGTHENED DURING THE EVENING. ON THE 12TH A RIDGE PERSISTED BEFORE A WARM FRONT ARRIVED FROM THE WEST DURING THE EVENING. THE 13TH SAW A WAVING WARM FRONT PERSIST ALL DAY AND EVENING AND THIS CLEARED WESTWARDS OVERNIGHT. ON 14TH A 'COL' AREA COVERED THE REGION BEFORE A WARM FRONT ARRIVED FROM THE WEST DURING LATE EVENING. ON THE 15TH A FRONTAL SYSTEM COVERED ENGLAND AND AN OCCLUSION STRETCHED FROM NORFOLK TO CORNWALL. DURING THE MORNING THE COLD FRONT CLEARED AS A SHOWERY WESTERLY AIRSTREAM SPREAD IN. ON THE 16TH A STRONG AND SHOWERY W/NW AIRSTREAM COVERED THE UK WHICH PERSISTED ON THE 17TH, BEFORE AN ACTIVE FRONTAL SYSTEM ARRIVED DURING THE EVENING (FROM STORM 'FFION'). THIS CLEARED OVERNIGHT ON THE 17TH, THEN ON THE 18TH A SHOWERY W. AIRSTREAM SPREAD ACROSS ALL AREAS WHICH PERSISTED DURING THE 19TH BEFORE A FRONTAL SYSTEM ARRIVED IN THE EVENING. ON THE 20TH THERE WAS A LOW (998MB) NW OF CORNWALL, TOGETHER WITH IT'S ASSOCIATED FRONTAL SYSTEM. THIS MOVED AWAY, BUT ONLY TO BE REPLACED BY A NEW WARM FRONT AND WARM SECTOR ON 21ST. DURING THE EVENING A NEW LOW RACED ACROSS THE REGION TO BE FOLLOWED BY A WEAK RIDGE OF HIGH PRESSURE ON 22ND. DURING THE EVENING A NEW FRONTAL SYSTEM ARRIVED FROM THE SOUTHWEST AND A BROAD WARM SECTOR COVERED ALL AREAS DURING 23RD. ON THE 24TH A COLD

FRONT MOVED SE AND CLEARED EARLY (FROM STORM 'GEORGINA' AT 57.5N/09.5W) THE 25TH SAW A SHOWERY S/SW. AIRSTREAM COVER ALL AREAS. ON THE 26TH A RIDGE MOVED IN FROM THE WEST BEFORE A NEW WARM FRONT ARRIVED BY MIDNIGHT. ON 27TH A WARM SECTOR PERSISTED AS A RIDGE OF HIGH PRESSURE FROM A HIGH (1040MB) NE OF THE AZORES INTENSIFIED. THE 29TH SAW A COLD FRONT CLEARING, THEN A RIDGE BUILT IN LATER IN THE DAY. ON THE 30TH A SMALL WAVE LOW (1027MB) AT 50N/11W MOVED ACROSS SOUTHERN ENGLAND DURING THE EVENING. ON 31ST A COLD FRONT CLEARED DURING THE AFTERNOON.

JANUARY WAS CHANGEABLE THROUGHOUT (AS HAPPENED IN DECEMBER!) MANY OF THE NIGHTTIME PERIODS WERE EITHER CLOUDY OR COMPLETELY OVERCAST. RAIN WAS CONSTANT AND MANY OF THE DAYS WERE WET OR VERY WET. HEAVIER 24HR FALLS INCLUDED 22.3MM ON 3RD, 12.0MM ON 9TH, 18.9MM ON 12TH, 22.9MM ON 13TH, 13.6MM ON 14TH, 12.4MM ON 17TH AND 19.5MM ON 19TH AND OF COURSE, THE HEAVIEST FALL OF THE MONTH WHICH WAS 24.8MM ON 21ST. HAIL WAS RECORDED ON 16TH, 17TH, 19TH, 25TH & 31ST. THE PREDOMINANT WIND DIRECTION WAS WESTERLY, FOLLOWED BY SOUTHWESTERLY. THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 39KT (45MPH) DURING THE EARLY HOURS OF 17TH. IT WAS THE WARMEST AND ALSO THE WETTEST JANUARY SINCE 2016 AND THE MEAN SW SEA TEMPERATURE WAS THE LOWEST (& EQUAL VALUE) SINCE 2013.

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. 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.