

STITHIANS WEATHER SUMMARY

MARCH 2018

HIGHEST MAXIMUM TEMPERATURE	12.6C (10th)
HIGHEST MINIMUM TEMPERATURE	09.7C (10th)
LOWEST MAXIMUM TEMPERATURE	-02.8C (01st)
LOWEST MINIMUM TEMPERATURE	-05.9C (01st)
MEAN MAXIMUM TEMPERATURE	08.2C (10YR) 10.0C (30YR) 09.9C
MEAN MINIMUM TEMPERATURE	02.0C (10YR) 03.5C (30YR) 04.1C
MEAN TEMPERATURE FOR MONTH	05.1C (10YR) 06.7C (30YR) 07.0C
MAX DAILY TEMPERATURE RANGE	11.6C (26th)
MEAN DAILY TEMPERATURE RANGE	06.3C
TOTAL RAINFALL	239.8MM (10YR) 96.1MM (30YR) 97.2MM
MAXIMUM RAINFALL IN 24 HOURS	38.1MM (09th)
RAIN DAYS (0.2MM OR MORE)	28
WET DAYS (1.0MM OR MORE)	23
DAYS WITH RAIN INCLUDED	25
DAYS WITH HAIL	04
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 04
AIR FROSTS (-00.1C OR BELOW)	11
MAXIMUM ATMOSPHERIC PRESSURE	1034.0 MB (20 th & 21st)
MINIMUM ATMOSPHERIC PRESSURE	980.0 MB (11th)
MEAN ATMOSPHERIC PRESSURE	999.2 MB (30YR MEAN) 1016.8 MB
MEAN SOUTHWEST SEA TEMPERATURE	08.9C (MAR 1986-2017 AVE) 09.5C
10YR RUNNING MEAN SW SEA TEMP	(MAR 2008-2017) 09.7C

NOTES

THE ATLANTIC JET STREAM MOSTLY RAN TO THE SOUTH OF THE BRITISH ISLES DURING MARCH.

IT WAS TO THE SOUTH FROM 1ST-4TH, 5TH-7TH, 10TH-13TH, 15TH-21ST, & 29TH & 30TH.

IT WAS TO THE WEST ON 22ND, 23RD & 25TH. IT WAS TO THE S.W. ON 14TH, 24TH & 31ST. IT WAS OVER THE UK ON 8TH, 9TH, 27TH & 28TH.

THE SYNOPTIC PATTERN CHANGED THROUGHOUT THE MONTH. AT 0600 GMT ON THE 1ST, STORM 'EMMA' (977MB) AND IT'S ASSOCIATED FRONTS BROUGHT HEAVY, POWDERY TYPE SNOW DURING THE DAY. AT 1200GMT IT WAS 975MB & POSITIONED AT 44N/06W AND BY 1800 GMT IT WAS 973MB AT 44N/5W. ON THE 2ND, STORM 'EMMA' WAS 975MB OVER W BRITTANY WHICH LATER MOVED NW BRINGING GALE FORCE WINDS AND SLIGHTLY HIGHER TEMPERATURES. THE 3RD SAW AN OCCLUSION MOVING NORTHWARDS FROM THE ENGLISH CHANNEL AS Milder weather arrived and on the 4th, a low 978MB was centred S of Ireland as an occlusion over West Cornwall cleared. Another occlusion arrived on the 5th which cleared during the afternoon. On the 6th, a slack & complex low pressure area covered the UK. Later on the 7th, a shower trough passed through & on the 8th a complex low 987MB over the UK persisted as another shower trough passed through in the early morning. On the 9th an active warm front moved northwards, followed by an active occlusion (& a small low) during mid-evening. The 10th saw a weak ridge embedded within a warm sector, before a cold front cleared eastwards late in the day. On the 11th, a low 967MB NW Biscay moved slowly northeastwards before it's occlusion affected the SW during the afternoon. In the evening, another occlusion arrived from the south. This cleared overnight as the low moved away into the E English Channel by the morning of the 12th. By the 13th a weak ridge covered the region before pressure fell late in the day. On the 14th, a frontal system moved in from the SW and the cold front waved during the evening as very heavy rain occurred. The 15th had an occlusion move through, whilst on the 16th a weak occlusion broke up by evening. By the 17th a trough, then a cold front passed through from the east as a cold airstream arrived. On the 18th a low 1004MB in the English Channel brought renewed snowfall to the region, then on the 19th low pressure persisted over Biscay and a high 1030MB moved westwards to the NW of Scotland. The 20th had a high 1033MB in Galway with a ridge to and over the UK which persisted on the 21st as the high transferred to 48N/10W &

LATER TO NW PORTUGAL ON THE 22ND AS THE RIDGE REMAINED UNCHANGED. LATE IN THE DAY, AN OCCLUSION ARRIVED FROM THE WEST BEFORE CLEARING OVERNIGHT. THE 23RD SAW ANOTHER FRONTAL SYSTEM MOVE IN FROM THE SW ON THE 24TH, AN OCCLUSION PERSISTED ALL DAY, THEN ON THE 25TH, A RIDGE OF HIGH PRESSURE MOVED IN AND THIS PERSISTED FOR MUCH OF THE 26TH. A WEAK COLD FRONT CLEARED DURING THE MORNING OF THE 27TH AS A WESTERLY AIRSTREAM BECAME ESTABLISHED. THIS BECAME MORE SHOWERY ON THE 28TH. ON THE 29TH, AN OCCLUSION CLEARED EARLY, BEING FOLLOWED BY A SHOWERY WESTERLY. ON THE 30TH A COMPLEX LOW WAS POSITIONED TO THE SW OF THE ISLES OF SCILLY, THEN ON THE 31ST, A LOW MOVED UP FROM BRITTANY TO CENTRAL ENGLAND.

MARCH CONTINUED THE RECENT RUN OF VERY CHANGEABLE MONTHS. IT WAS ALSO COLD WITH THE MEAN TEMPERATURE RUNNING AT ALMOST TWO DEGREES BELOW THE LONG TERM AVERAGE.

THERE WERE 4 DAYS WITH SNOW, NAMELY 1ST, 17TH, 18TH & 19TH.

HAIL WAS RECORDED ON 4TH, 7TH, 8TH & 29TH. THERE WERE A NUMBER OF NOTABLY WET DAYS INCLUDING 13.5MM (1ST), 3RD (10.6MM), 4TH (17.0MM), 14TH (28.1MM), 22ND (12.7MM), 23RD (31.1MM) & 26TH (12.4MM).

IT EVENTUALLY TURNED OUT TO BE THE WETTEST MARCH EVER RECORDED HERE!

THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 38KT (44MPH) AND THE PREDOMINANT WIND DIRECTIONS WERE (EQUALLY) WESTERLY & EASTERLY.

WITH A 'FROST DAY', THE 1ST WAS THE COLDEST MARCH DAY EVER RECORDED HERE. THERE WERE ALSO THE HIGHEST NUMBER OF AIR FROSTS RECORDED SINCE MARCH 2013 (ANOTHER VERY COLD MARCH!).

THE NUMBER OF DAYS WITH SNOW IS ALSO A NEW 'HIGHEST' FOR ANY MARCH.

ALL 'MEAN' TEMPERATURES, AS WELL AS THE LOWEST MIN. TEMP WERE ALL THE LOWEST VALUES FOR THE MONTH SINCE MARCH 2013.

ANOTHER INTERESTING OBSERVATION WAS THAT IT WAS, BY FAR, THE LOWEST MEAN BAROMETRIC PRESSURE EVER RECORDED FOR ANY MARCH HERE.

THE MEAN SW SEA TEMPERATURE WAS ALSO LOW AND THIS WAS 'EQUAL' TO MARCH 2010.

OVERALL, IT WAS QUITE A REMARKABLE AND UNUSUAL MONTH!

ALL READINGS TAKEN 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.