

# STITHIANS WEATHER SUMMARY

## MARCH 2020

HIGHEST MAXIMUM TEMPERATURE	13.2C (24th)
HIGHEST MINIMUM TEMPERATURE	09.4C (10 <sup>th</sup> & 18th)
LOWEST MAXIMUM TEMPERATURE	07.2C (05th)
LOWEST MINIMUM TEMPERATURE	-04.3C (26th)
MEAN MAXIMUM TEMPERATURE	10.0C (10YR) 09.9C (32YR) 09.9C
MEAN MINIMUM TEMPERATURE	03.7C (10YR) 03.4C (32YR) 04.0C
MEAN TEMPERATURE FOR MONTH (32YR) 06.9C	06.8C (10YR) 06.6C
MAX. DAILY TEMPERATURE RANGE	16.0C (26th)
MEAN DAILY TEMPERATURE RANGE	06.3C
TOTAL RAINFALL FOR THE MONTH	111.0mm
TOTAL RAINFALL (10 YRS RUNNING MEAN)	112.1mm
TOTAL RAINFALL (32 YRS LONG TERM AV)	102.8mm
MAXIMUM RAINFALL IN 24 HOURS	17.3MM (13th)
RAIN DAYS (0.2MM OR MORE)	18
WET DAYS (1.0MM OR MORE)	17
DAYS WITH RAIN INCLUDED	19
DAYS WITH HAIL	04
DAYS WITH THUNDER	01
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	05

MAXIMUM ATMOSPHERIC PRESSURE	1039.0 MB (29th)
MINIMUM ATMOSPHERIC PRESSURE	984.0 MB (01st)
MEAN ATMOSPHERIC PRESSURE 1016.4 MB	1016.6 MB (32YR MEAN)
MEAN SOUTHWEST SEA TEMPERATURE	09.8C (MAR 1988-2019 AV) 09.5C
10YR RUNNING MEAN SW SEA TEMP	(MAR 2010-2019) 09.7C

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### NOTES

GENERAL SYNOPTIC SITUATION: ON THE 1ST A COOL AND SHOWERY SOUTHWESTERLY AIRSTREAM PREVAILED WHICH CONTINUED ON THE 2ND & 3RD AS WINDS VEERED WESTERLY. ON THE 4TH A SMALL LOW (1002MB) NW OF CORNWALL MOVED SE AND DEEPENED RAPIDLY TO BE OVER NORMANDY (984MB) BY 1200 GMT ON THE 5TH. AN OCCLUSION CLEARED EARLY ON THE 6TH AS A WEAK RIDGE ARRIVED.

A BROAD WARM SECTOR AFFECTED THE REGION ON THE 7TH BEFORE THE COLD FRONT CLEARED OVERNIGHT. BY THE 8TH THERE WAS A VERY SHOWERY SW AIRSTREAM WHICH WAS FOLLOWED BY A WEAK RIDGE ON THE 9TH. THIS COLLAPSED AS A NEW FRONTAL SYSTEM SPREAD IN DURING THE DAY.

A BROAD WARM SECTOR PERSISTED ON THE 10TH BEFORE THE COLD FRONT CLEARED OVERNIGHT. BY THE 11TH THERE WAS A FRESH SW AIRSTREAM BEFORE AN OCCLUSION CLEARED LATE IN THE DAY LEAVING A SHOWERY WESTERLY AIRSTREAM ON THE 12TH.

BY THE 13TH A WEAK RIDGE COLLAPSED AS A FRONTAL SYSTEM MOVED UP FROM THE SOUTHWEST. ON THE 14TH THERE WAS A MOIST SW AIRSTREAM BEFORE A COLD FRONT CLEARED EARLY ON THE 15TH.

THE 16TH SAW A STRONG RIDGE OF HIGH PRESSURE AND ON THE 17TH THERE WAS A BROAD WARM SECTOR. THIS CONTINUED ON THE 18TH BEFORE A WEAK QUASI STATIONARY WARM FRONT WHICH PERSISTED ON THE 19TH & 20TH AS PRESSURE BEGAN TO RISE.

BY THE 21ST A BLOCKING HIGH (1041MB) HAD BECOME ESTABLISHED OVER SW NORWAY WHICH INCREASED THE EASTERLY GRADIENT. THIS CONTINUED ON THE 22ND AS THE HIGH (1042MB) TRANSFERRED TO

SE SWEDEN WHICH HIGH BUILT TO 1043MB OVER THE EAST BALTIC BY THE 23<sup>RD</sup>. THIS CONTINUED ON THE 25TH, 26TH AND 27<sup>TH</sup>, (STILL AS A BLOCK WITH A RIDGE TO AND OVER THE UK)

BY 0600 GMT ON THE 28TH A NEW ANTICYCLONE (1053MB) HAD FORMED AT 60N/20W WHICH ALSO BECAME A BLOCKING FEATURE. (IT IS VERY UNUSUAL TO HAVE THIS SORT OF POWERFUL 'HIGH' AT THIS POSITION IN MARCH!). THIS CONTINUED ON THE 29TH AS THE HIGH INTENSIFIED TO BECOME 1055MB AT POSITION 58N/19W. THIS BLOCKING HIGH HAD DECLINED TO 1051MB AT 56N/19W AT 0600 GMT ON THE 30TH AND BY THE 31ST IT WAS 1046MB AT 55N/24W WHILST THE RIDGE TO AND OVER THE UK WAS MAINTAINED.

THE MAIN ATLANTIC JET STREAM GRADUALLY WEAKENED AND MOVED NORTHWARDS DURING THE MONTH. IT WAS TO THE SW OF THE UK FROM THE 1ST-3RD, THE 5TH, 8TH AND 13TH.

IT WAS OVER THE UK ON THE 4TH, 7TH, 9TH-12TH, 14TH-19TH AND 29TH. IT WAS TO THE WEST ON THE 6TH, TO THE NW FROM THE 20TH-26TH AND ON THE 28TH AND TO THE NORTH OF THE BRITISH ISLES ON THE 27TH, 30TH & 31ST.

THE FIRST 19 DAYS OF MARCH WERE UNSETTLED, WITH ONLY ONE DAY WITHOUT RAIN WHICH WAS THE 16TH. THEREAFTER, WITH HIGH PRESSURE BECOMING DOMINANT IT BECAME DRY FOR THE REMAINDER OF THE MONTH.

THE MEAN TEMPERATURE WAS ACTUALLY 0.5C LOWER THAN IN FEBRUARY!

IT WAS THE DRIEST MARCH HERE SINCE 2015.

THERE WERE THE LOWEST NUMBER OF DAYS WITH RAIN IN MARCH SINCE 2016.

THE MEAN MAX. TEMP. WAS SLIGHTLY ABOVE AND THE MEAN MIN TEMP AND THE MEAN TEMP. WERE SLIGHTLY BELOW NORMAL.

THE HEAVIEST 24HR FALLS OF RAIN WERE 10.0MM ON THE 1ST, 14.1MM ON THE 7TH, 11.6MM ON THE 9TH, 17.3MM ON THE 13TH AND 11.1MM ON THE 14TH.

HAIL OCCURRED ON THE 1ST, 2ND, 8TH AND 12TH.

THUNDER WAS RECORDED AT 0745 GMT ON THE 8TH DURING A TORRENTIAL RAIN SHOWER.

THE MAIN WIND DIRECTION FOR MARCH WAS EQUALLY DIVIDED BETWEEN SOUTHWEST AND WEST AND THE MAXIMUM (ESTIMATED) WIND GUST WAS 32KT (37 MPH) DURING THE MID AFTERNOON OF THE 21ST.

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 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 AND WEEKLY DATA TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH.