

# STITHIANS WEATHER SUMMARY

## FEBRUARY 2019

HIGHEST MAXIMUM TEMPERATURE	14.4C (23rd)
HIGHEST MINIMUM TEMPERATURE	09.5C (21st)
LOWEST MAXIMUM TEMPERATURE	03.2C (01st)
LOWEST MINIMUM TEMPERATURE	-02.3C (03rd)
MEAN MAXIMUM TEMPERATURE	10.4C (10YR) 08.1C (31YR) 08.4C
MEAN MINIMUM TEMPERATURE	04.4C (10YR) 02.8C (31YR) 03.3C
MEAN TEMPERATURE FOR MONTH	07.4C (10YR) 05.4C (31YR) 05.8C
MAX. DAILY TEMPERATURE RANGE	12.6C (26th)
MEAN DAILY TEMPERATURE RANGE	06.0C
TOTAL RAINFALL	106.8MM (10YR) 126.0MM (31YR) 129.7MM
MAXIMUM RAINFALL IN 24 HOURS	28.0MM (09th)
RAIN DAYS (0.2MM OR MORE)	18
WET DAYS (1.0MM OR MORE)	09
DAYS WITH RAIN INCLUDED	19
DAYS WITH HAIL	04
DAYS WITH THUNDER	02
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 01
AIR FROSTS (-00.1C OR BELOW)	04
MAXIMUM ATMOSPHERIC PRESSURE	1033.0 MB (12 <sup>th</sup> , 24 <sup>th</sup> & 25 <sup>th</sup> )
MINIMUM ATMOSPHERIC PRESSURE	987.0 MB (01st)
MEAN ATMOSPHERIC PRESSURE	1019.0 MB (31YR MEAN) 1016.1 MB
MEAN SOUTHWEST SEA TEMPERATURE	10.2C (FEB 1986-2018 AVE) 09.6C
10YR RUNNING MEAN SW SEA TEMP	(FEB 2009-2018) 09.8C

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## NOTES

GENERAL SYNOPTIC SITUATION: ON THE 1ST A LOW (981MB) W BISCAY RESULTED IN A COLD N-NE AIRSTREAM COVERING THE UK. ON THE 2ND A QUASI-STATIONARY SHOWER TROUGH MOVED AWAY AS A RIDGE EDGED IN. THIS PERSISTED ON THE 3RD BEFORE A FRONTAL SYSTEM ARRIVED FROM THE SW DURING THE EVENING. THIS CLEARED OVERNIGHT, THEN ON THE 4TH A VERY WEAK RIDGE MOVED IN.

THE 5TH SAW A FRONTAL SYSTEM MOVE NE ACROSS THE REGION WHICH CLEARED OVERNIGHT. ON THE 6TH THERE WAS A MILD, MODERATE SW AIRSTREAM BEFORE A FRONTAL SYSTEM ARRIVED DURING THE EVENING. THIS CLEARED OVERNIGHT, BEING REPLACED ON THE 7TH BY A SHOWERY WESTERLY AIRSTREAM. DURING THE EVENING ANOTHER FRONTAL SYSTEM CAME UP FROM THE SW.

THE COLD FRONT CLEARED CORNWALL AROUND 1200 GMT ON THE 8<sup>TH</sup>. TWO SHOWER TROUGHS MOVED THROUGH DURING THE EVENING. ON THE 9TH THERE WAS A SHOWERY SW AIRSTREAM FOLLOWED BY WARM FRONT SPREADING UP FROM THE SW IN THE AFTERNOON & EVENING. THIS CLEARED OVERNIGHT TO LEAVE A COLDER & SHOWERY W-NW AIRSTREAM ON THE 10TH.

ON THE 11TH A RIDGE FROM A HIGH (1033MB) AT 44N/09W ARRIVED OVER THE BRITISH ISLES. THIS PERSISTED ON THE 12TH AS A WEAK WARM FRONT MOVED AWAY NORTH EASTWARDS ACROSS THE REGION. ON THE 13TH THE RIDGE RE-ESTABLISHED ITSELF & PERSISTED ON THE 14TH & 15TH AS WINDS VEERED MORE SOUTHERLY AND MOISTER AIR ARRIVED.

ON THE 16TH A WEAK WARM FRONT MOVED NORTHWARDS ACROSS THE REGION AS A WEAK RIDGE (FROM A HIGH 1033MB OVER THE BALKANS) PERSISTED, COLLAPSING LATE IN THE DAY.

EARLY ON THE 17TH A WEAK COLD FRONT CLEARED, FOLLOWED BY A MOIST SW AIRSTREAM. ON THE 18TH A WEAK OCCLUSION CLEARED EARLY MORNING AS A WEAK RIDGE MOVED IN FROM THE WEST. THIS RIDGE (FROM A HIGH 1025MB OVER SE EUROPE) CONTINUED ON THE 19TH, 20TH & 21ST AS THE HIGH WAS REPLACED BY A NEW HIGH (1045MB) OVER SE SWEDEN ON THE 22ND.

THE RIDGE PERSISTED ON THE 23<sup>RD</sup> AS A WEAK COLD FRONT EDGED IN FROM THE WEST. THIS DIED OUT OVERNIGHT AS THE RIDGE INTENSIFIED SLIGHTLY ON THE 24<sup>TH</sup>. THE HIGH (1040MB) MOVED BACK TO GERMANY. BY THE 25TH THE HIGH (1039MB) HAD MOVED TO NE FRANCE AND THE RIDGE FROM IT PERSISTED OVER THE UK ON THE 26TH & 27TH. AN OCCLUSION PUSHED IN FROM THE WEST OVERNIGHT WHICH CLEARED DURING THE EARLY MORNING OF THE 28TH. THIS WAS FOLLOWED

BY A SLIGHTLY SHOWERY WESTERLY AIRSTREAM BEFORE A RIDGE OF HIGH PRESSURE ARRIVED EVENING & OVERNIGHT

.THE MAIN ATLANTIC JET STREAM VARIED WIDELY THROUGHOUT THE MONTH. IT WAS TO THE N OF THE UK ON THE 12TH, TO THE NW ON THE 13TH, 14TH & 16TH, TO THE W & NW ON THE 25TH & 26TH. IT WAS TO THE WEST FROM 3<sup>RD</sup> TO THE 5TH, 15TH, 17TH, 19<sup>TH</sup> TO THE 24TH, 27TH & 28TH.

IT WAS POSITIONED OVER THE UK ON THE 6TH, 8TH, 9TH, 11TH & 18TH, TO THE SW ON THE 7TH AND TO THE S ON THE 1ST, 2ND & 10TH.

FEBRUARY CAN BE SUMMED UP AS WARMER AND DRIER THAN NORMAL, WITH A COLD START BEING REPLACED BY HIGHER TEMPERATURES AND MOST OF THE RAINFALL OCCURRING IN THE FIRST 10 DAYS OF THE MONTH. THEREAFTER, AMOUNTS WERE MORE SCATTERED AS HIGH PRESSURE MOSTLY DOMINATED.

THE HIGHEST MAXIMUM & MEAN MAXIMUM TEMPERATURES WERE BOTH NEW RECORDS FOR FEBRUARY. THE MEAN MIN TEMPERATURE WAS THE HIGHEST FOR ANY FEB SINCE 2011 & THE MEAN TEMP WAS ALSO THE HIGHEST FOR ANY FEB SINCE 2007. IT WAS ONE OF THE WARMEST FEBRUARIES EVER RECORDED HERE.

HAIL WAS RECORDED ON THE 2ND, 3RD, 9TH & 10TH. THUNDER OCCURRED ON THE 2ND & 28TH AND THERE WERE A FEW SNOW SHOWERS AT 0855 GMT ON THE 2ND.

THE MAXIMUM (ESTIMATED) WIND GUST WAS 40KT (46 MPH) DURING THE LATE EVENING OF THE 6TH AND THE PREDOMINANT WIND DIRECTIONS WERE EASTERLY, CLOSELY FOLLOWED BY WESTERLY. THE WINTER ITSELF WAS THE WARMEST (ALL MEAN TEMPS) SINCE 2015 & ALSO THE DRIEST SINCE 2016.

ALL READINGS DONE BY PAUL RICHARDS AT 40 CRELOW FIELDS, STITHIANS. OBSERVATIONS ARE DONE 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 & WEEKLY DATA TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH.