

STITHIANS WEATHER SUMMARY

FEBRUARY 2020

HIGHEST MAXIMUM TEMPERATURE	12.2C (09th)
HIGHEST MINIMUM TEMPERATURE	09.2C (03rd)
LOWEST MAXIMUM TEMPERATURE	07.2C (27 th & 29th)
LOWEST MINIMUM TEMPERATURE	-01.3C (05th)
MEAN MAXIMUM TEMPERATURE	09.6C (10YR) 08.3C (32YR) 08.5C
MEAN MINIMUM TEMPERATURE	05.3C (10YR) 03.0C (32YR) 03.3C
MEAN TEMPERATURE FOR MONTH (32YR) 05.9C	07.4C (10YR) 05.6C
MAX. DAILY TEMPERATURE RANGE	11.5C (28th)
MEAN DAILY TEMPERATURE RANGE	04.2C
TOTAL RAINFALL FOR THE MONTH	261.8mm
TOTAL RAINFALL (10 YRS RUNNING MEAN)	127.5mm
TOTAL RAINFALL (32 YRS LONG TERM AVE)	129.0mm
MAXIMUM RAINFALL IN 24 HOURS	40.0MM (15th)
RAIN DAYS (0.2MM OR MORE)	27
WET DAYS (1.0MM OR MORE)	26
DAYS WITH RAIN INCLUDED	23
DAYS WITH HAIL	08
DAYS WITH THUNDER	02
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 02
AIR FROSTS (-00.1C OR BELOW)	02

MAXIMUM ATMOSPHERIC PRESSURE	1039.0 MB (05th)
MINIMUM ATMOSPHERIC PRESSURE	985.0 MB (29th)
MEAN ATMOSPHERIC PRESSURE 1016.2 MB	1011.8 MB (32YR MEAN)
MEAN SOUTHWEST SEA TEMPERATURE	10.2C (FEB 1988-2019 AV) 10.3C
10YR RUNNING MEAN SW SEA TEMP	(FEB 2010-2019) 09.9C

NOTES

GENERAL SYNOPTIC SITUATION: ON THE 1ST A MILD SW AIRSTREAM GAVE WAY TO A FRONTAL SYSTEM DURING THE EVENING WHICH CLEARED OVERNIGHT. ON THE 2ND THERE WAS A MILD & MOIST SW AIRSTREAM AND ON THE 3RD A QUASI-STATIONARY COLD FRONT LINGERED ALL DAY BEFORE AN EVENING CLEARANCE. BY THE 4TH A STRENGTHENING RIDGE HAD MOVED IN WHICH HAD BECOME A HIGH (1038MB) OVER CARDIFF BY 0600 GMT ON THE 5TH. THIS HIGH (1040MB) TRANSFERRED TO N ITALY BY THE 6TH WHILE MAINTAINING A RIDGE OVER THE UK. ON THE 7TH PRESSURE DECLINED AS A SHOWER TROUGH WAS FOLLOWED BY A COLD FRONT DURING THE EVENING.

BY THE 8TH THERE WAS A FRESHENING SW AIRSTREAM BEFORE THE ARRIVAL OF A FRONTAL SYSTEM DURING THE EVENING. THIS WAS ASSOCIATED WITH STORM 'CIARA' (967MB) CENTRED AT 52.5N/32.5W AT 1800 GMT / AT 0600 GMT. ON THE 9TH THIS STORM WAS POSITIONED AT 51N/12W WITH A CENTRAL PRESSURE OF 954MB AND IT'S ASSOCIATED FRONTAL SYSTEM WAS AFFECTING CORNWALL. THE COLD FRONT CLEARED DURING THE EVENING, LEAVING A STRONG SW AIRSTREAM IN IT'S WAKE DURING THE 10TH. BY THE 11TH THIS AIRSTREAM HAD VEERED MORE WESTERLY. ON THE 12TH AN EARLY WEAK RIDGE COLLAPSED AS A FRONTAL SYSTEM MOVED IN FROM THE SW BEFORE CLEARING OVERNIGHT.

THE 13TH SAW A SHOWER TROUGH AND A SHOWERY OCCLUSION MOVING THROUGH DURING THE EARLY MORNING, IN TURN BEING FOLLOWED BY A BRISK WESTERLY AIRSTREAM. ON THE 14TH A NEW FRONTAL SYSTEM GRADUALLY EDGED IN AND IT'S ASSOCIATED COLD FRONT CLEARED DURING LATE EVENING. BY 1800 GMT ON THE 14TH, A NEW FRONTAL SYSTEM EDGED IN GRADUALLY AND IT'S ASSOCIATED COLD FRONT CLEARED DURING THE EVENING.

BY THE 15TH STORM 'DENNIS' WAS BATTERING CORNWALL. BY 1200 GMT IT WAS 925MB AT 60N/19W, AT 1800 GMT IT WAS 922MB AT 61N/20W & AT 0000 GMT IT WAS 923MB AT EXACTLY THE SAME POSITION. IT'S FRONTAL SYSTEM PERSISTED THROUGHOUT. (THIS DEPRESSION HAD ONE OF THE LOWEST CENTRAL PRESSURES EVER RECORDED IN A NORTH ATLANTIC LOW!)

ON THE 16TH A WAVING COLD FRONT CLEARED LEAVING A SHOWERY SW/W AIRSTREAM. THIS VEERED WESTERLY ON THE 17TH & 18TH AS THE SHOWERY REGIME CONTINUED AND PRESSURE SLOWLY ROSE FROM THE SOUTH. BY THE 19TH A WARM FRONT WAS REPLACED BY A MOIST, BROAD WARM SECTOR WHICH CLEARED ON THE 20TH AS A COLD FRONT MOVED AWAY SOUTHEASTWARDS. ON THE 21ST THERE WAS A BRISK SW AIRSTREAM AS A WEAK RIDGE (FROM A HIGH OVER BISCAY) PERSISTED. A WEAK COLD FRONT CLEARED ON THE 22ND BEFORE TWO COLD FRONTS LINGERED ON THE 23RD. BY THE 24TH A NEW LOW (995MB) HAD ARRIVED OVER NW IRELAND AND IT'S DOUBLE FRONTAL SYSTEM CLEARED OVERNIGHT. THE 25TH SAW A SHOWERY OCCLUSION AS A STRONG WESTERLY AIRSTREAM ARRIVED. A SLIGHTLY SHOWERY W/NW AIRSTREAM COVERED THE UK ON THE 26TH BEFORE A FAST MOVING, DEEPENING LOW PASSED THROUGH THE REGION BY EARLY ON THE 27TH BEFORE A RIDGE OF HIGH PRESSURE ARRIVED DURING THE DAY. ON THE 28TH THERE WAS A FRONTAL SYSTEM WHICH CLEARED OVERNIGHT AS A STRONG, SHOWERY SW/W AIRSTREAM COVERED THE REGION ON THE 29TH.

THE MAIN ATLANTIC JET STREAM BECAME MORE ORGANISED AND ALSO STRONGER DURING THE MONTH. IT WAS AT IT'S MAXIMUM STRENGTH OF 350Km/h ON THE 9TH, 10th, 15th & 22nd. IT WAS TO THE NORTH OF THE UK ON THE 5TH & 6TH, TO THE W ON THE 7th AND 18th. IT WAS OVER THE UK ON THE 2ND-4TH, THE 8TH-16TH AND FROM THE 19TH-24TH. IT WAS TO THE SW ON THE 1ST AND 17TH AND FROM THE 25TH-28TH. IT WAS TO THE SOUTH OF THE UK ON THE 29TH.

FEBRUARY WAS A VERY WET, WINDY AND VERY MILD MONTH.

RAINFALL WAS SLIGHTLY ABOVE DOUBLE THE AVERAGE AND IT WAS, IN FACT THE SECOND WETTEST FEBRUARY EVER RECORDED HERE. (THE WETTEST BEING 276.1MM IN FEBRUARY 2007).

HIGH RAINFALL TOTALS INCLUDED 16.1MM ON THE 1ST, 10.9MM ON THE 10TH, 24.2MM ON THE 12TH, 17.0MM ON THE 14TH, 40.0MM ON THE

15TH, 10.2MM ON THE 16TH, 21.6MM ON THE 26TH, 11.5MM ON THE 27TH AND 27.3MM ON THE 28TH.

HAIL OCCURRED ON THE 10TH, 11TH, 13TH, 16TH, 17TH, 18TH, 25TH AND THE 29TH.

THUNDER WAS RECORDED ON THE 10TH AND THE 17TH.

THERE WERE A FEW SNOW SHOWERS ON THE 25TH AND 29TH.

THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 46KT (53 MPH) DURING THE MID-AFTERNOON OF THE 10TH AND THE MAIN WIND DIRECTION WAS SOUTHWESTERLY, FOLLOWED BY WESTERLY.

TEMPERATURES WERE NOTABLE – THE MEAN MIN TEMP WAS THE HIGHEST IN ANY FEBRUARY SINCE 2007 (5.4C) & THE MEAN TEMP WAS EXACTLY THE SAME AS IN FEBRUARY 2019, (AS ALSO WAS THE MEAN SW SEA TEMP!)

AS REGARDS THE WINTER AS A WHOLE, IT TURNED OUT TO BE THE WETTEST WINTER SINCE 2015. THE MEAN TEMPERATURES WERE ONLY SLIGHTLY LOWER THAN IN WINTER 2018 AND TOTAL RAINFALL WAS ALSO HIGHER THAN IN WINTER 2018.

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.