

STITHIANS WEATHER SUMMARY

JANUARY 2020

HIGHEST MAXIMUM TEMPERATURE	12.2C (14th)
HIGHEST MINIMUM TEMPERATURE	08.9C (08th)
LOWEST MAXIMUM TEMPERATURE	05.9C (19th)
LOWEST MINIMUM TEMPERATURE	-05.1C (20th)
MEAN MAXIMUM TEMPERATURE	09.0C (10YR) 08.1C (31YR) 08.2C
MEAN MINIMUM TEMPERATURE	04.2C (10YR) 03.6C (31YR) 03.7C
MEAN TEMPERATURE FOR MONTH (31YR) 05.9C	06.6C (10YR) 05.8C
MAX. DAILY TEMPERATURE RANGE	12.3C (20th)
MEAN DAILY TEMPERATURE RANGE	04.7C
	142.1MM (10YR) 179.2MM (32YR) 166.2MM
MAXIMUM RAINFALL IN 24 HOURS	18.9MM (11th)
RAIN DAYS (0.2MM OR MORE)	25
WET DAYS (1.0MM OR MORE)	20
DAYS WITH RAIN INCLUDED	25
DAYS WITH HAIL	03
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 01 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	05
MAXIMUM ATMOSPHERIC PRESSURE	1049.0 MB (20th)
MINIMUM ATMOSPHERIC PRESSURE	989.0 MB (14th)

MEAN ATMOSPHERIC PRESSURE 1016.2 MB	1019.2 MB (32YR MEAN)
MEAN SOUTHWEST SEA TEMPERATURE	10.7C (JAN 1986-2019 AV) 10.3C
10YR RUNNING MEAN SW SEA TEMP	(JAN 2010-2019) 11.7C

NOTES

GENERAL SYNOPTIC SITUATION: ON 1ST A BROAD WARM SECTOR COVERED THE UK BEFORE PRESSURE FELL AWAY AND A COLD FRONT CLEARED LATE ON THE 2ND ALLOWING A STRENGTHENING RIDGE OF HIGH PRESSURE TO MOVE IN FROM THE WEST ON THE 3RD. THIS RIDGE PERSISTED ON THE 4TH AS A LARGE MOIST WARM SECTOR COVERED THE UK WHICH CONTINUED ON THE 5TH AS PRESSURE SLOWLY DECLINED.

ON THE 6TH A COLD FRONT MOVED IN FROM THE WEST BEFORE CLEARING IN THE AFTERNOON. BY THE 7TH A DOUBLE WARM FRONT EDGED IN AND PERSISTED ON THE 8TH. TWO OCCLUSIONS (FROM A LOW 997MB AT 48N/19W) MOVED THROUGH DURING THE 9TH.

THERE WAS A STRONG RIDGE OF HIGH PRESSURE ON THE 10TH BEFORE A WEAK WARM FRONT OVERNIGHT INTRODUCED A MILD, MOIST & BROAD WARM SECTOR ON THE 11TH.

AN OCCLUSION CLEARED OVERNIGHT LEAVING A SHOWERY SW AIRSTREAM IN IT'S WAKE ON THE 12TH. ON THE 13TH A LOW (948MB) WAS CENTRED AT 52.5N/20.5W AT 0600 GMT. THIS WAS STORM 'BRENNAN' (NAMED BY MET. EIREANN) WHICH PUSHED IT'S FRONTAL SYSTEM THROUGH BY EARLY EVENING.

THE 14TH SAW A FRONTAL SYSTEM MOVE THROUGH, THIS BEING FOLLOWED BY A SLIGHTLY SHOWERY SW AIRSTREAM ON THE 15TH.

A NEW FRONTAL SYSTEM ARRIVED FROM THE SOUTHWEST ON THE 16TH AND ON THE 17TH A SHOWERY WESTERLY AIRSTREAM PREVAILED THROUGHOUT.

ON 18TH PRESSURE ROSE STEADILY RESULTING IN THE FORMATION OF A HIGH (1047MB) NW OF CORNWALL ON THE 19TH. THIS INTENSIFIED TO BECOME A BLOCKING FEATURE (1049MB OVER

CARDIFF) ON THE 20TH. THE HIGH MOVED TO THE SW OF KERRY ON THE 21ST WHILST IT'S CENTRAL PRESSURE DECLINED (1045MB).

ON THE 21ST THIS PROCESS CONTINUED AS THE HIGH (1041MB) SLIPPED FURTHER TO THE SW ON THE 22ND TO BE CENTRED AT 51N/18W AT 1200 GMT WHILST STILL MAINTAINING A RIDGE TO AND OVER THE UK.

THIS SITUATION CONTINUED ON THE 23RD & 24TH. PRESSURE FELL STEADILY ON THE 25TH AS A LOW (1015MB) FORMED TO THE WEST OF BRITTANY AND A BROAD WARM SECTOR AFFECTED MOST OF THE UK BRINGING IN A MILDER SOUTHWESTERLY AIRSTREAM.

A FRONTAL SYSTEM CLEARED FROM THE WEST ON THE 26TH. THE 27TH SAW A SHOWERY SW AIRSTREAM WITH SOME EMBEDDED SHOWER TROUGHS WHICH SHOWERY REGIME PERSISTED ON THE 28TH.

A TRANSIENT RIDGE AFFECTED THE REGION ON THE 29TH BEFORE A FRONTAL SYSTEM ARRIVED ON THE 30TH WHICH PERSISTED ON THE 31ST AS A BROAD WARM SECTOR COMBINED WITH A MILD & MOIST SW AIRSTREAM.

THE MAIN ATLANTIC JETSTREAM GENERALLY STRENGTHENED DURING THE MONTH. IT WAS TO THE NORTH OF THE BRITISH ISLES FROM THE 20TH-24TH INCLUSIVE. IT WAS TO THE NW ON THE 1ST, 4TH, 5TH, 7TH, 19TH & 25TH. IT WAS TO THE WEST ON THE 9TH & 18TH. IT WAS POSITIONED OVER THE UK ON THE 2ND, 3RD, 6TH, 8TH, 10TH-12TH, 14TH-16TH AND FROM THE 29TH-31ST. IT WAS TO THE SW ON THE 13TH, 17TH AND FROM THE 26TH-28TH INCLUSIVE.

JANUARY WAS ANOTHER UNSETTLED MONTH WHICH WAS DRIER AND WARMER THAN AVERAGE, DESPITE A COLDER SPELL FROM 17TH-24TH.

AS WITH PREVIOUS MONTHS, DAYS WITH RAIN WERE WIDELY RECORDED WITH THE HEAVIEST FALLS BEING 11.5MM ON THE 2ND, 10.2MM ON THE 6TH, 18.9MM ON THE 11TH, 17.4MM ON THE 14TH AND 11.8MM ON THE 16TH.

HAIL OCCURRED ON THE 17TH, 27TH & 28TH. SLEET ALSO OCCURRED ON THE 28TH DURING ONE OF THE HEAVIER RAIN AND HAIL SHOWERS OF THE DAY. THE MAXIMUM (ESTIMATED) WIND GUST WAS 34KT (39 MPH) DURING THE EARLY AFTERNOON OF THE 14TH. THE MONTH'S MAIN WIND DIRECTION WAS SOUTHWESTERLY.

ONE VERY INTERESTING RECORD TO BE BROKEN WAS THE MAX. ATMOSPHERIC PRESSURE WHICH WAS 1049MB DURING THE MORNING OF THE 20TH. THIS IS THE HIGHEST PRESSURE EVER RECORDED HERE (32 YRS RECORDING) AND IS ALSO PROBABLY THE HIGHEST PRESSURE RECORDED IN CORNWALL SINCE AT LEAST 1971!

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