

STITHIANS WEATHER SUMMARY

DECEMBER 2020

HIGHEST MAXIMUM TEMPERATURE	13.3C (18th)
HIGHEST MINIMUM TEMPERATURE	11.2C (18th & 23rd)
LOWEST MAXIMUM TEMPERATURE	05.7C (31st)
LOWEST MINIMUM TEMPERATURE	-02.5C (25th)
MEAN MAXIMUM TEMPERATURE	09.1C (10YR) 09.3C (32YR) 08.7C
MEAN MINIMUM TEMPERATURE	04.9C (10YR) 05.0C (32YR) 04.4C
MEAN TEMPERATURE FOR MONTH	07.0C (10YR) 07.1C (32YR) 06.5C
MAX DAILY TEMPERATURE RANGE	10.9C (13th)
MEAN DAILY TEMPERATURE RANGE	04.1C
TOTAL RAINFALL FOR THE MONTH	324.0 MM
TOTAL RAINFALL (10 YRS RUNNING MEAN)	185.6 MM
TOTAL RAINFALL (32 YRS LONG TERM AV)	168.9 MM
MAXIMUM RAINFALL IN 24 HOURS	30.5 MM (18th)
RAIN DAYS (0.2MM OR MORE)	30
WET DAYS (1.0MM OR MORE)	29
DAYS WITH RAIN INCLUDED	31
DAYS WITH HAIL	06
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 01
AIR FROSTS (-00.1C OR BELOW)	04

MAXIMUM ATMOSPHERIC PRESSURE	1034.0 MB (25th)
MINIMUM ATMOSPHERIC PRESSURE	973.0 MB (27th)
MEAN ATMOSPHERIC PRESSURE	1002.7 MB (32YR MEAN) 1016.0 MB
MEAN SW SEA TEMP (DEC 1986-2019 AV)	11.4C
10YR RUNNING MEAN SW SEA TEMP	(DEC 2010-2019) 11.7C
MEAN SW SEA TEMP DECEMBER 2020:	11.7C

NOTES

SYNOPTIC SITUATION: ON THE 1ST A HIGH (1034MB) AT 50N/17W EXTENDED A RIDGE OVER THE UK. ON THE 2ND A SOUTHEASTWARD MOVING COLD FRONT CLEARED BY MIDDAY. BY THE 3RD A RUNNER LOW (998MB) WAS OVER SW ENGLAND WHICH MOVED AWAY EASTWARDS AS A COLDER AND SHOWERY NORTHERLY AIRSTREAM FOLLOWED. THIS SITUATION CONTINUED ON THE 4TH AS A LOW (968MB) NORFOLK BECAME SLOW MOVING. BY THE 5TH THIS LOW (982MB) HAD DRIFTED TO THE SE OF PLYMOUTH, WHILST MAINTAINING A COLD AND SHOWERY NW AIRSTREAM. ON THE 6TH THE LOW (995MB) WAS OVER W FRANCE AS A SLACK AREA OF LOW PRESSURE COVERED THE UK. ON THE 7TH A NEW LOW (989MB) SW OF CORNWALL PUSHED IT'S OCCLUSION NORTHEASTWARDS BEFORE IT ALL CLEARED AWAY INTO BISCAY BY 1800 GMT. ON THE 8TH A SHOWER TROUGH PASSED THROUGH. BY THE 9TH THERE WAS A WEAK RIDGE BEFORE A FRONTAL SYSTEM ARRIVED IN THE AFTERNOON. ON THE 10TH THERE WAS A MOIST WESTERLY AIRSTREAM BEFORE A FRONTAL SYSTEM CLEARED DURING THE EVENING. ON THE 11TH A SHOWERY WESTERLY PERSISTED WHICH CONTINUED ON THE 12TH. ON THE 13TH A FRONTAL SYSTEM CAME UP FROM THE SW WITH THE COLD FRONT CLEARING BY MIDDAY, BEING FOLLOWED BY A BRISK SW AIRSTREAM ON THE 14TH. THE SHOWERY SW AIRSTREAM CONTINUED ON THE 15TH. LATE ON THE 15TH A FRONTAL SYSTEM SPED IN FROM THE SW AS A LOW (979MB) MOVED RAPIDLY NNE TO BE POSITIONED OVER GALWAY AT 0600 GMT ON THE 16TH. THE COLD FRONT CLEARED AROUND

MIDDAY AS A SHOWERY SW AIRSTREAM SPREAD IN WHICH CONTINUED ON THE 17TH. LATE IN THE DAY AN ACTIVE WARM FRONT ARRIVED FROM THE SOUTHWEST. ON THE 18TH A NEW FRONTAL SYSTEM ARRIVED, MOVED EASTWARDS AND THE COLD FRONT CLEARED LATE EVENING. ON THE 19TH A SHOWERY SW AIRSTREAM PERSISTED AND CONTINUED ON THE 20TH. DURING THE EVENING A FRONTAL SYSTEM EDGED IN WHICH PERSISTED ON THE 21ST AND 22ND. ON THE 23RD A LOW (995MB) MOVED NORTHEASTWARDS TO BE POSITIONED SW OF THE ISLES OF SCILLY AT 0600 GMT. THIS MOVED AWAY OVERNIGHT TO BE REPLACED BY A SHOWERY NORTHWEST TO NORTHERLY AIRSTREAM ON THE 24TH. A RIDGE BUILT IN DURING THE EVENING. THE 25TH SAW A HIGH (1041MB) AT 48N/20W EXTENDING A STRONG RIDGE OVER THE UK & SW NORWAY. ON THE 26TH THE RIDGE MOVED AWAY TO THE SE AS A COLD FRONT SLOWLY EDGED DOWN FROM THE NW. A LOW (961MB), STORM 'BELLA' TO THE WEST OF ICELAND BEGAN TO MOVE SOUTHEASTWARDS. BY THE 27TH THIS LOW (953MB) STORM 'BELLA' WAS JUST SW OF THE FAEROE ISLANDS WITH THE HUGE CIRCULATION FROM THIS FEATURE STRETCHING FROM S BISCAY TO FINLAND TO NE GREENLAND TO 50N/35W. THE COLD FRONT CLEARED SE BY 0600 GMT BEING FOLLOWED BY A GUSTY AND SHOWERY W/NW AIRSTREAM. THE 28TH SAW THIS LOW (967MB) STORM 'BELLA' OVER WEST WALES AS THE COOL, SHOWERY NW AIRSTREAM CONTINUED. BY THE 29TH THIS LOW (981MB) HAD DRIFTED TO NE HOLLAND AS THE SHOWERY W/NW AIRSTREAM PERSISTED. ON THE 30TH A SMALL LOW (1001MB) VALENTIA, SW IRELAND AT 0600 GMT SLIPPED SOUTHEASTWARDS TO BE OVER NE FRANCE (999MB) BY 0600 GMT ON THE 31ST AS THE SHOWERY W/NW AIRSTREAM CONTINUED. AN OCCLUSION PASSED THROUGH FROM THE NW DURING THE EVENING BRINGING SOME SNOW SHOWERS.

THE MAIN ATLANTIC JET STREAM SHIFTED SOUTHWARDS DURING THE MONTH. IT WAS TO THE NW OF THE UK ON 2ND AND THE 26TH. IT WAS TO THE WEST ON THE 3RD, 4TH AND 29TH. IT WAS OVER THE UK ON THE 1ST, 9TH, 13TH, 14TH, AND 19TH AND FROM THE 21ST TO THE 25TH. IT WAS TO THE SW OF THE UK FROM THE 5TH-8TH, 10TH-12TH, 15TH-18TH, 20TH, 27TH-28TH, 30TH AND 31ST.

DECEMBER TURNED OUT TO BE A CHANGEABLE AND VERY WET, BUT MILD MONTH. ANY SUNSHINE WAS LIMITED WITH MANY OF THE DAYS AND NIGHTS CLOUDY OR OVERCAST.

ANNUAL HEADLINES

IT WAS THE SECOND WETTEST DECEMBER AND THE SECOND WETTEST MONTH EVER RECORDED HERE. THERE WAS NOT A SINGLE DAY WITHOUT RAIN RECORDED IN DECEMBER.

THE HEAVIEST FALLS OF RAIN WERE ON THE 2ND (11.0MM), 4TH (28.3MM), 9TH (28.4MM), 10TH (14.0MM), 15TH (20.0MM), 17TH (20.0MM), 18TH (30.5MM), 20TH (17.4MM), 21ST (18.4MM), 23RD (13.8MM), 26TH (20.9MM), 27TH (10.1MM) & 30TH (12.8MM).

HAIL WAS RECORDED ON THE 4TH, 7TH, 12TH, 27TH, 29TH AND 31ST.

SNOW SHOWERS DURING THE EVENING OF 31ST GAVE A TOTAL SNOW DEPTH OF 1CM.

THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 47KT (54 MPH) AT AROUND 0015 GMT ON THE 27TH.

THE PREDOMINANT WIND DIRECTIONS FOR THE MONTH WERE EQUALLY SPLIT BETWEEN SOUTHWESTERLY AND WESTERLY.

MEAN ATMOSPHERIC PRESSURE WAS ALSO WELL BELOW NORMAL.

THE YEAR OF 2020 AS A WHOLE WAS (SECOND YEAR RUNNING) THE WETTEST EVER RECORDED HERE!

THE FINAL TOTAL WAS 1698.2MM (BEATING 2019 BY 19.8MM).

MEAN TEMPERATURES WERE ABOUT 0.5C ABOVE THE LONG TERM AVERAGE.

THE MEAN MAX TEMP (14.0C) WAS THE HIGHEST SINCE 2014 & THE MEAN TEMP (10.6c) WAS THE HIGHEST SINCE 2017.

PLEASE NOTE THAT WE HAVE A NEW WEBSITE WHICH CAN BE FOUND AT:
www.stithiansweather.co.uk

ALL READINGS TAKEN BY PAUL RICHARDS AT 40 CRELOW FIELDS, STITHIANS. MAIN OBSERVATIONS ARE CARRIED OUT AT 0900 GMT AND 2100 GMT 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 IS PASSED TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH.