

STITHIANS WEATHER SUMMARY

DECEMBER 2021

HIGHEST MAXIMUM TEMPERATURE	13.9C (29th)
HIGHEST MINIMUM TEMPERATURE	12.7C (31st)
LOWEST MAXIMUM TEMPERATURE	07.2C (21st)
LOWEST MINIMUM TEMPERATURE	02.4C (09th)
MEAN MAXIMUM TEMPERATURE	10.9C (10YR) 09.7C (33YR) 08.7C
MEAN MINIMUM TEMPERATURE	07.7C (10YR) 05.6C (33YR) 04.4C
MEAN TEMPERATURE FOR MONTH	09.3C (10YR) 07.6C (33YR) 06.5C
MAX DAILY TEMPERATURE RANGE	10.0C (09th)
MEAN DAILY TEMPERATURE RANGE	03.2C
TOTAL RAINFALL FOR THE MONTH	143.3 MM
TOTAL RAINFALL (10 YRS RUNNING MEAN)	212.0 MM
TOTAL RAINFALL (33 YRS LONG TERM AV)	173.6 MM
MAXIMUM RAINFALL IN 24 HOURS	18.3 MM (28th)
RAIN DAYS (0.2MM OR MORE)	22
WET DAYS (1.0MM OR MORE)	21
DAYS WITH RAIN INCLUDED	25
DAYS WITH HAIL	02
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	00
MAXIMUM ATMOSPHERIC PRESSURE	1037.0 MB (16 th & 17th)

MINIMUM ATMOSPHERIC PRESSURE	984.0 MB (27th)
MEAN ATMOSPHERIC PRESSURE	1012.1 MB (33YR MEAN) 1015.6 MB
MEAN SW SEA TEMP (DECEMBER 1986-2020 AV)	11.5C
10YR RUNNING MEAN SW SEA TEMP (DECEMBER 2011-2020)	11.8C
MEAN SW SEA TEMP DECEMBER 2021:	12.0C

NOTES

SYNOPTIC SITUATION: A SHOWERY W/NW AIRSTREAM COVERED ALL AREAS ON THE 1ST WHICH CONTINUED ON THE 2ND BEFORE A RIDGE ARRIVED LATER.

ON THE 3RD A FRONTAL SYSTEM ARRIVED DURING THE EARLY HOURS WHICH CLEARED IN THE EVENING.

THE 4TH SAW A COLDER AND SHOWERY W/NW AIRSTREAM WITH A LOW (985MB) NE SCOTLAND. A SHOWERY W/NW AIRSTREAM CONTINUED ON THE 5TH WITH A LOW (1000MB) E BELGIUM SLOW MOVING.

AN OCCLUSION ON THE 6TH MOVED AWAY EASTWARDS EARLY AS A SHOWERY W AIRSTREAM ARRIVED. BY 1800 GMT ON THE 6TH THE LOW (992MB) (STORM 'BARRA') WAS AT 51N/22W (961MB) AND A FRONTAL SYSTEM SWEEPED UP FROM THE SOUTHWEST. THE COLD FRONT CLEARED THROUGH AT 0945 GMT AND AT 1800 GMT STORM 'BARRA' WAS OVER N IRELAND WITH A DEPTH OF 961MB. ON THE 8TH THE LOW (970MB) STORM 'BARRA' WAS OVER CUMBRIA WHICH DOMINATED THE WEATHER ACROSS THE UK.

ON THE 9TH A WEAK RIDGE GAVE WAY TO A WARM FRONT EDGING IN FROM THE SOUTHWEST. THE COLD FRONT CLEARED DURING THE EVENING TO BE FOLLOWED BY A SHOWERY W/NW AIRSTREAM FOR THE 10TH.

ON THE 11TH A WARM FRONT MOVED IN FROM THE SOUTHWEST BRINGING A BROAD WARM SECTOR FOR THE 12TH TOGETHER WITH A MOIST SW AIRSTREAM. THIS CONTINUED ON THE 13TH AS WINDS BACKED SOUTHEASTERLY AND A RIDGE BUILT FROM A HIGH (1030MB) N ITALY.

ON THE 14TH A VERY MILD SOUTHWESTERLY COVERED THE UK AND IRELAND AS PRESSURE ROSE OVER S AND SW ENGLAND. THIS SITUATION CONTINUED ON THE 15TH.

BY THE 16TH A HIGH (1038MB) N ITALY TO FRANCE AND THE UK AND IRELAND WAS DOMINATING THE WEATHER.

ON THE 17TH A NEW HIGH (1041MB) FORMED NE ENGLAND WHICH WAS THE DOMINATING FEATURE. THERE WAS LITTLE CHANGE ON THE 18TH.

ON THE 19TH THE HIGH (1040MB) HAD RETREATED TO THE EAST OF ICELAND WITH A RIDGE TO AND OVER THE UK, IRELAND AND NE FRANCE.

THE 20TH SAW THE HIGH DECLINE TO 1031MB CENTRED NE SCOTLAND. BY THE 21ST THE HIGH (1027MB) HAD RETREATED TO DENMARK AS THE E/SE GRADIENT INCREASED.

ON THE 22ND A FRESH E/SE AIRSTREAM PERSISTED AS A WARM FRONT ARRIVED FROM THE SW.

ON THE 23RD A COLD FRONT CLEARED EASTWARDS DURING THE MORNING.

THE 24TH SAW AN OCCLUSION MOVING AWAY EASTWARDS WHICH HAPPENED AGAIN ON THE 25TH AS A LOW (983MB) WSW OF IRELAND MOVED EASTNORTHEASTWARDS.

BY THE 26TH THERE WAS A SHOWERY SW AIRSTREAM AS THE LOW (992MB) LINGERED AT 55N/15W.

ON THE 27TH AN OCCLUSION MOVED SLOWLY EASTWARDS AND CLEARED AS THE SHOWERY SW AIRSTREAM CONTINUED.

ON THE 28TH A BRISK WESTERLY AIRSTREAM PERSISTED AS A LOW (983MB) OVER RAF VALLEY MOVED AWAY EAST NORTHEASTWARDS.

ON THE 29TH A LOW (978MB) JUST W OF GALWAY BROUGHT TWO FRONTAL SYSTEMS UP FROM THE SOUTHWEST.

ON THE 30TH A BROAD WARM SECTOR CONTINUED AND A VERY MILD SW AIRSTREAM PERSISTED.

A COLD FRONT CLEARED EARLY ON THE 31ST AS THE VERY MILD S/SW AIRSTREAM CONTINUED.

THE MAIN ATLANTIC JET STREAM SLOWLY STRENGTHENED DURING THE MONTH. IT WAS TO THE NW FROM THE 14TH-19TH. IT WAS TO THE WEST ON THE 1ST, 6TH AND 8TH, THE 10TH -13TH FROM THE 20TH-22ND. IT WAS OVER THE UK FROM THE 2ND-5TH, THE 7TH, 9TH, 11TH AND FROM THE 29TH-31ST. IT WAS TO THE SW FROM 23RD-28TH INCLUSIVE.

DECEMBER WAS ANOTHER FAIRLY UNUSUAL MONTH. IT WAS DRIER AND ALSO MUCH WARMER THAN AVERAGE. IT WAS THE DRIEST DECEMBER SINCE 2019 AND THE SECOND WARMEST ONE EVER RECORDED HERE.

ALL MEAN TEMPERATURES WERE THE 'HIGHEST' IN ANY DECEMBER SINCE 2015. THE HIGHEST MIN TEMPERATURE WAS THE HIGHEST IN ANY DECEMBER SINCE 2015 AND THE LOWEST MIN TEMPERATURE IS A NEW RECORD 'HIGHEST' FOR ANY DECEMBER SO FAR.

THE MEAN DAILY TEMP RANGE WAS THE 'LOWEST' IN ANY DECEMBER SINCE 2015. IT WAS ONLY THE SECOND DECEMBER EVER WITH NO AIR FROSTS RECORDED.

THE MAXIMUM TEMPERATURE WAS THE HIGHEST IN ANY DECEMBER SINCE 2016.

IT WAS A VERY CLOUDY MONTH IN GENERAL WITH ONLY VERY LIMITED SUNSHINE AND AT NIGHT THE CONSTANT CLOUDY OR OVERCAST SKIES HAD THE EFFECT OF KEEPING TEMPERATURES UP.

HAIL OCCURED ON THE 1ST AT 1105 GMT AND ON THE 8TH AT 1126 GMT AND AGAIN AT 1315 GMT.

THE MAIN WIND DIRECTION WAS WESTERLY, FOLLOWED BY SOUTHWESTERLY AND THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 33KT (38 MPH) AT 1100 GMT ON THE 7TH.

THE YEAR AS A WHOLE WAS THE DRIEST SINCE 2017.

THERE WAS THE LEAST NUMBER OF DAYS WITH RAIN SINCE 2010.

2021 SAW THE HIGHEST NUMBER OF DAYS WITH AIR FROST SINCE 2013 AND ALL MEAN TEMPERATURES WERE 0.1C LOWER THAN IN 2020.

PLEASE NOTE THAT WE HAVE A VERY INFORMATIVE AND MUCH MORE DETAILED WEBSITE WHICH CAN BE FOUND AT: 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