

STITHIANS WEATHER SUMMARY

DECEMBER 2022

HIGHEST MAXIMUM TEMPERATURE	13.5C (19TH)
HIGHEST MINIMUM TEMPERATURE	13.0C (19TH)
LOWEST MAXIMUM TEMPERATURE	02.7C (14TH)
LOWEST MINIMUM TEMPERATURE	-07.5C (16TH)
MEAN MAXIMUM TEMPERATURE	08.2C (10YR) 09.8C (34YR) 08.8C
MEAN MINIMUM TEMPERATURE	02.9C (10YR) 05.7C (34YR) 04.5C
MEAN TEMPERATURE FOR MONTH	05.5C (10YR) 07.7C (34YR) 06.6C
MAX DAILY TEMPERATURE RANGE	15.0C (18TH)
MEAN DAILY TEMPERATURE RANGE	05.5C
TOTAL RAINFALL FOR THE MONTH	220.4 MM
TOTAL RAINFALL (10 YRS RUNNING MEAN)	206.5 MM
TOTAL RAINFALL (34 YRS LONG TERM AV)	172.7 MM
MAXIMUM RAINFALL IN 24 HOURS	48.0 MM (27TH)
RAIN DAYS (0.2MM OR MORE)	21
WET DAYS (1.0MM OR MORE)	18
DAYS WITH RAIN INCLUDED	22
DAYS WITH HAIL	02
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 01 / SNW 03
AIR FROSTS (-00.1C OR BELOW)	10
MAXIMUM ATMOSPHERIC PRESSURE	1028.0 MB (01ST)

MINIMUM ATMOSPHERIC PRESSURE	988.0 MB (30TH)
MEAN ATMOSPHERIC PRESSURE	1010.1 MB (34YR MEAN) 1015.5 MB
MEAN SW SEA TEMP (DECEMBER 1986-2021 AV)	11.5C
10YR RUNNING MEAN SW SEA TEMP	11.8C
MEAN SW SEA TEMP DECEMBER 2022:	11.7C

NOTES

SYNOPTIC SITUATION: ON THE 1ST A HIGH (1044MB) EXTENDED A RIDGE TO AND OVER THE UK, IRELAND AND BISCAY WHICH CONTINUED ON THE 2ND AND 3RD. BY THE 4TH THE BLOCKING HIGH (1052MB) N RUSSIA PERSISTED AS IT EXTENDED A RIDGE TO SW NORWAY, THENCE CONNECTING WITH A HIGH (1037MB) AND A NEW HIGH (1035MB) SW ICELAND. A NEW HIGH (1038MB) S GREENLAND LINKED TO A NEW HIGH (1033MB) TO THE EAST OF NEWFOUNDLAND. A COLD NE AIRSTREAM CONTINUED OVER THE UK AND IRELAND ON THE 5TH AS A HIGH (1048MB) SE GREENLAND STRENGTHENED. BY THE 6TH THIS HAD PUSHED A RIDGE TO AND OVER THE UK AND IRELAND WHICH CONTINUED ON THE 7TH AS THE HIGH (1052MB) S GREENLAND PERSISTED.

ON THE 8TH THE STRONG HIGH (1049MB) S GREENLAND CONTINUED AS A SHOWER TROUGH EDGED IN FROM THE NW. ON THE 9TH THERE WAS A VERY WEAK RIDGE OF HIGH PRESSURE.

BY THE 10TH A SLACK LOW (1007MB) E SCOTLAND HAD A SHOWER TROUGH JUST TO THE SOUTH OF CORNWALL AND THE HIGH (1044MB) OVER S AND SE GREENLAND PERSISTED.

ON THE 11TH A SLACK AREA OF LOW PRESSURE COVERED THE UK AND IRELAND WITH SHOWER TROUGHS CIRCULATING AROUND IT. THIS SITUATION CONTINUED ON THE 12TH.

ON THE 13TH THE HIGH (1047MB) WAS STATIONARY OVER S GREENLAND WHICH BROUGHT A COLD ARCTIC FLOW OVER THE UK WHILE A LOW (975MB) AT 44N/22W BROUGHT AN OCCLUSION UP FROM THE SOUTH.

ON THE 14TH THE OCCLUSION RETREATED SOUTHWARDS AGAIN AS A HIGH (1043MB) MID GREENLAND PUSHED A WEAK RIDGE TO AND OVER THE UK AS THE COLD POLAR AIRFLOW CONTINUED. THIS SITUATION PERSISTED ON THE 15TH.

THE 16TH SAW A WEAK HIGH (1019MB) CARDIFF AND A WAVING OCCLUSION OVER SOUTHERN SCOTLAND.

ON THE 17TH A RIDGE OVER SOUTHERN ENGLAND SLOWLY WEAKENED. THE 18TH SAW AN ACTIVE FRONTAL SYSTEM MOVING UP FROM THE SW AND ON THE 19TH A VERY MILD SOUTH TO SOUTHEASTERLY AIRSTREAM AND FRONTS MOVED UP ACROSS THE REGION.

THE 20TH SAW A COLD FRONT CLEARING EARLY TO BE FOLLOWED BY A SLIGHTLY SHOWERY SW AIRSTREAM. ON THE 21ST THIS SITUATION CONTINUED AS A PRIMARY LOW (976MB) WAS ALMOST STATIONARY AT 57N/12W.

ON THE 22ND A LOW (999MB) WATERFORD PUSHED AN OCCLUSION UP ACROSS THE REGION BEFORE A WARM FRONT ARRIVED FROM THE SW LATER. THE COLD FRONT CLEARED OVERNIGHT, LEAVING A S.W. AIRSTREAM FOR THE 23RD AS A LOW (982MB) AT 52N/27W PERSISTED.

ON THE 24TH A MOIST SW AIRSTREAM COVERED THE UK AND A PRIMARY LOW (984MB) WAS POSITIONED TO THE WEST OF THE WESTERN ISLES.

ON THE 25TH THERE WAS A LOW (995MB) GALWAY AND A SHOWERY SW AIRSTREAM WHICH CONTINUED ON THE 26TH AS A WEAK RIDGE EDGED IN.

ON THE 27TH AN ACTIVE FRONTAL SYSTEM MOVED UP FROM THE SOUTHWEST.

THE 28TH SAW A COMPLEX LOW (987MB) WEST OF KERRY AND A WARM SECTOR OVER SW ENGLAND BEFORE A COLD FRONT CLEARED AWAY EASTWARDS AROUND MIDDAY.

ON THE 29TH A SHOWERY SW AIRSTREAM PREVAILED. A FRONTAL SYSTEM CROSSED THE REGION ON THE 30TH, BEING QUICKLY FOLLOWED BY A WAVING COLD FRONT ON THE 31ST. THIS THEN CLEARED OVERNIGHT.

THE MAIN ATLANTIC JET STREAM WAS MOSTLY TO THE WEST OR SOUTHWEST OF THE BRITISH ISLES.

IN DECEMBER, THE FIRST HALF OF THE MONTH SAW LITTLE IN THE WAY OF RAIN, HOWEVER THE SECOND HALF WAS MUCH WETTER WITH SOME HEAVIER FALLS OF RAIN. IT WAS THE WETTEST DECEMBER SINCE 2020.

A VERY COLD OUTBREAK OF POLAR AIR OCCURRED FROM THE 7TH TO THE 18TH INCLUSIVE. THE MIN. TEMP. OF -07.5C ON THE 16TH GAVE THE COLDEST DECEMBER NIGHT HERE SINCE 2010.

HAIL AND SNOW WERE RECORDED ON THE 10TH AND 11TH.

THERE WAS SLEET ON THE 12TH AND FURTHER SNOW ON THE 14TH.

A RAPID RISE IN TEMPERATURES OCCURRED ON THE 19TH WHICH VERY MILD REGIME THEN PERSISTED FOR THE REMAINDER OF THE MONTH.

THERE WERE 10 AIR FROSTS WHICH, AGAIN WAS THE HIGHEST IN ANY DECEMBER SINCE 2010.

ALL OF THE MEAN TEMPERATURES WERE ALSO THE LOWEST IN ANY DECEMBER HERE SINCE 2010.

THE FIRST HALF OF THE MONTH SAW LARGELY CALM OR EASTERLY TO NORTHERLY WINDS. THE MAXIMUM (ESTIMATED) WIND GUST WAS 35KT (40 MPH) AT AROUND 1730 GMT ON THE 27TH.

2022 AS A WHOLE SAW AN ANNUAL RAINFALL TOTAL OF ONLY 3.7MM MORE THAN THAT WHICH OCCURRED IN 2021! MANY OF THE MONTHS SAW BELOW AVERAGE RAINFALL AND THE STITHIANS DAM FELL TO SOME OF THE LOWEST LEVELS EVER RECORDED. HOWEVER, BY THE CLOSE OF THE YEAR, THE LEVEL WAS NOT TOO FAR OFF OF 50% FULL.

IT ALSO TURNED OUT TO BE THE WARMEST YEAR EVER HERE, WITH ALL MEAN MONTHLY TEMPERATURES BEING ABOVE AVERAGE (APART FROM DECEMBER WHICH WERE LOWER!) THE MEAN SW SEA TEMPERATURE WAS ALSO THE HIGHEST VALUE ON RECORD.

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