

# STITHIANS WEATHER SUMMARY

## MAY 2018

HIGHEST MAXIMUM TEMPERATURE	22.7C (28th)
HIGHEST MINIMUM TEMPERATURE	14.5C (30th)
LOWEST MAXIMUM TEMPERATURE	11.4C (02nd)
LOWEST MINIMUM TEMPERATURE	-01.0C (14th)
MEAN MAXIMUM TEMPERATURE	16.7C (10YR) 15.1C (30YR) 14.8C
MEAN MINIMUM TEMPERATURE	06.7C (10YR) 07.4C (30YR) 07.2C
MEAN TEMPERATURE FOR MONTH	11.7C (10YR) 11.2C (30YR) 11.0C
MAX. DAILY TEMPERATURE RANGE	18.4C (19th)
MEAN DAILY TEMPERATURE RANGE	10.0C
TOTAL RAINFALL	71.9MM (10YR) 66.5MM (30YR) 70.8MM
MAXIMUM RAINFALL IN 24 HOURS	28.2MM (01st)
RAIN DAYS (0.2MM OR MORE)	10
WET DAYS (1.0MM OR MORE)	07
DAYS WITH RAIN INCLUDED	16
DAYS WITH HAIL	01
DAYS WITH THUNDER	01
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	02
MAXIMUM ATMOSPHERIC PRESSURE	1026.0 MB (17 <sup>th</sup> )
MINIMUM ATMOSPHERIC PRESSURE	999.0 MB (02nd)
MEAN ATMOSPHERIC PRESSURE	1017.0 MB (30YR MEAN) 1016.4 MB
MEAN SOUTHWEST SEA TEMPERATURE	11.6C (MAY 1986-2017 AVE) 11.5C
10YR RUNNING MEAN SW SEA TEMP	(MAY 2008-2017) 11.9C

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## NOTES

THE MAIN ATLANTIC JET STREAM WAS MAINLY TO THE WEST, BUT TOWARDS THE END OF MAY, IT BECAME WEAKER AND MORE FRAGMENTED IN NATURE. IT WAS OVER THE UK ON THE 3RD, 4TH, 5TH, 8TH, 12TH & 13TH. IT WAS TO THE NORTH ON THE 23RD. IT WAS TO THE NW FROM THE 5TH-7TH, 19TH-22ND & THE 24TH. IT WAS TO THE WEST ON THE 1ST, 2ND, 9TH-11TH, 14TH-18TH, 25TH-28TH & 31ST AND IT WAS TO THE W & NW ON THE 29TH & 30TH.

SYNOPTICALLY, IT WAS AGAIN A RATHER MIXED PICTURE. ON THE 1ST, A FRONTAL SYSTEM MOVED UP FROM THE SW AND CLEARED OVERNIGHT. ON THE 2ND, A FRESH NW AIRSTREAM COVERED THE UK. ON THE 3RD, THERE WAS A RIDGE OF HIGH PRESSURE. THE 4TH SAW A WEAK OCCLUSION EMBEDDED WITHIN A RIDGE (FROM A HIGH 1027MB SW OF BISCAY). LATE IN THE DAY, THE OCCLUSION BROKE UP AND MOVED AWAY AS THE RIDGE INTENSIFIED OVERNIGHT. ON THE 5TH & 6TH THE RIDGE PERSISTED AND ON THE 7TH, THERE WAS A SLACK 'COL' AREA OVER THE UK. A WEAK COLD FRONT CLEARED EASTWARDS DURING THE LATE MORNING OF THE 8TH THEN, FIRSTLY AN OCCLUSION, THEN A COLD FRONT ARRIVED ON THE 9TH, WHICH CLEARED DURING THE EVENING. THE 10TH SAW A RIDGE OF HIGH PRESSURE PERSISTING BEFORE PRESSURE FELL LATE IN THE DAY. ON THE 11TH AN OCCLUSION, THEN A COLD FRONT CLEARED AWAY EASTWARDS DURING THE AFTERNOON. THE 12TH SAW A SMALL LOW (1011MB) SW OF THE ISLES OF SCILLY PUSH A SHOWER TROUGH UP ACROSS CORNWALL DURING THE DAY AND A RIDGE BUILT FROM THE SW DURING THE 13TH. ON THE 14TH THE RIDGE CONTINUED AS A WEAK WARM FRONT PERSISTED OVER THE ISLES OF SCILLY. ON THE 15TH THE RIDGE PERSISTED AS THE WEAK WARM FRONT WEAKENED FURTHER. ON THE 16TH THIS VERY WEAK WARM FRONT LINGERED OVER CORNWALL & WALES AS A HIGH (1037MB) AT 54N/14W BUILT A RIDGE TO AND OVER THE UK. OVERNIGHT ON THE 16TH THE WARM FRONT CLEARED SOUTH EASTWARDS. ON THE 17TH, A HIGH (1030MB) AT ABERDEEN DOMINATED THE BRITISH ISLES BEFORE THIS MOVED TO NE ENGLAND ON 18TH (WHILST MAINTAINING THE RIDGE) WHICH PERSISTED ON THE 19TH. ON THE 20TH, A RIDGE FROM A HIGH (1029MB) AT W. BALTIC PERSISTED AND ON THE 21ST, A SLACK 'COL' AREA COVERED THE REGION. BY THE 22ND A DRIER, MODERATE N/NE AIRSTREAM HAD ARRIVED. BY THE 23RD A RIDGE COVERED THE UK (FROM A HIGH 1030MB E. OF ABERDEEN). ON THE 24TH, AN ISOBARIC TROUGH EXTENDED NORTHWARDS, (FROM A LOW OVER NORTHERN FRANCE) AS A SHOWER TROUGH ALSO GRADUALLY MOVED IN FROM THE EAST. THE 25TH SAW A LOW (1017MB) NORTH OF LONDON WHILE AN OCCLUSION STRETCHED FROM NORTH OF THE CORNISH COAST TO N ENGLAND TO THE NORTH SEA. ON THE 26TH PRESSURE FELL AS TWO THUNDERY SHOWER TROUGHS ADVANCED FROM THE SOUTH. THESE CLEARED BY DAWN ON THE 27TH WHEN A LOW (1011MB NW BISCAY) PRODUCED A FAIRLY WARM

& HUMID EASTERLY FLOW. A RIDGE OF HIGH PRESSURE BUILT ON THE 28TH, BUT ON THE 29TH PRESSURE FELL AS A HUMID NORTHEASTERLY AIRSTREAM PERSISTED. ON THE 30TH AN OCCLUSION MOVED UP FROM NORTHERN FRANCE BEFORE CLEARING BY THE MORNING OF 31ST AS THE HUMID NORTHEASTERLY RETURNED DURING THE DAY.

MAY EVENTUALLY TURNED OUT TO BE WARMER AND VERY SLIGHTLY WETTER THAN AVERAGE. THE HEAVIEST 24HR RAINFALL OCCURED ON THE 1ST AS RAIN, WITH SOME HEAVIER BURSTS, ARRIVED DURING THE EVENING. AFTER THIS, RAINFALL AMOUNTS WERE SMALLER AND MORE SCATTERED FOR THE REMAINDER OF THE MONTH. THERE WAS NO MEASURABLE RAINFALL RECORDED AT ALL BETWEEN THE 13TH & 25TH INCLUSIVE. ON THE 12TH AT 1401 GMT & 1405 GMT THERE WERE HEAVY SHOWERS OF RAIN & 1-2MM DIA. HAIL. THE NIGHT OF THE 27TH SAW THUNDER RECORDED AT 0015 GMT WHICH THUNDERSTORMS CONTINUED UNTIL AROUND 0230 GMT. THE NEAREST STORM TO STITHIANS WAS 6 MILES AWAY AT 0035 GMT AND THE MOST DISTANT THUNDER WAS RECORDED AT 18 MILES AT 0235GMT (THIS DISTANCE IS RARE AS 12 MILES IS USUALLY AROUND THE MAXIMUM THAT THUNDER CAN NORMALLY BE HEARD!)

THE MAXIMUM (ESTIMATED) WIND GUST WAS 27KT (30MPH) DURING THE EVENING OF THE 1ST. THE PREDOMINANT WIND DIRECTIONS DURING THE MONTH WERE NORTH & NORTHEASTERLY. IT WAS CONTRASTING AT TIMES, WITH THE MEAN MAX. TEMP BEING A NEW 'HIGHEST' FOR ANY MAY SO FAR RECORDED HERE. THE MEAN MIN. TEMP WAS THE LOWEST FOR MAY SINCE 2013. THE MEAN TEMPERATURE WAS EXACTLY THE SAME AS MAY 2017! IT WAS ALSO THE LOWEST MEAN SW SEA TEMP FOR ANY MAY SINCE 2013.

THE SPRING AS A WHOLE SAW TEMPERATURES CLOSE TO AVERAGE, BUT IT TURNED OUT TO BE THE WETTEST SPRING EVER RECORDED HERE (RECORDS BACK TO 1987) WITH A TOTAL RAINFALL OF 423.4MM FOR THE 3 SPRING MONTHS. (THE SECOND HIGHEST BEING 370.1MM IN 1998!)

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 MET. 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.