

STITHIANS WEATHER SUMMARY

JULY 2017

HIGHEST MAXIMUM TEMPERATURE	22.9C (08th)
HIGHEST MINIMUM TEMPERATURE	16.5C (19th)
LOWEST MAXIMUM TEMPERATURE	15.7C (29th)
LOWEST MINIMUM TEMPERATURE	09.0C (05th)
MEAN MAXIMUM TEMPERATURE	19.5C (10YR) 19.3C (29YR) 19.0C
MEAN MINIMUM TEMPERATURE	12.9C (10YR) 11.9C (29YR) 11.8C
MEAN TEMPERATURE FOR MONTH	16.2C (10YR) 15.6C (29YR) 15.4C
MAX. DAILY TEMPERATURE RANGE	17.5C (18th)
MEAN DAILY TEMPERATURE RANGE	06.6C
TOTAL RAINFALL	111.1MM (10YR) 108.8MM (29YR) 84.4MM
MAXIMUM RAINFALL IN 24 HOURS	27.1MM (20th)
RAIN DAYS (0.2MM OR MORE)	18
WET DAYS (1.0MM OR MORE)	11
DAYS WITH RAIN INCLUDED	21
DAYS WITH HAIL	00
DAYS WITH THUNDER	01
DAYS WITH SLEET OR SNOW	SLT: 00 / SNW: 00
AIR FROSTS (-00.1C OR BELOW)	00
MAXIMUM ATMOSPHERIC PRESSURE	1024.0 MB (16th)
MINIMUM ATMOSPHERIC PRESSURE	1000.0 MB (21st)
MEAN ATMOSPHERIC PRESSURE	1013.8 MB (29YR MEAN) 1016.9 MB
MEAN SOUTHWEST SEA TEMPERATURE 16.1C (JUL 1986-2016 AVE)	15.9C

10YR RUNNING MEAN SW SEA

TEMPERATURE (JUL 2007-2016)

16.2C

NOTES

THE MAIN JET STREAM AGAIN VARIED CONSIDERABLY WITH THE MAIN JET BEING OVER THE BRITISH ISLES ON THE 2ND, 3RD, 4TH, 8TH, 14TH, 15TH, 16TH, 21ST AND FROM 26TH TO 29TH INCLUSIVE.

IT WAS TO THE NW & S ON 1ST, THEN FOR THE REMAINDER OF THE MONTH IT VARIED BETWEEN W & S.

THE SYNOPTIC SITUATION WAS ALSO HIGHLY VARIABLE. JULY BEGAN WITH AN AZORES HIGH THAT EXTENDED A RIDGE OVER THE UK AS AN OCCLUSION CLEARED EASTWARDS.

ON 2ND, AN EARLY COLD FRONT CLEARED SOUTHWARDS TO BE FOLLOWED BY A BUILDING NEW RIDGE OF HIGH PRESSURE. THE 3RD SAW A FRONTAL SYSTEM MOVE INTO THE SW FOLLOWED BY A WARM SECTOR. THE 4TH SAW PRESSURE FALLING AS A SHOWER TROUGH SW OF THE ISLES OF SCILLY MOVED NE LATER IN THE DAY. A LOW 1010MB WAS ALSO DEVELOPING IN WARM AIR OVER NW PORTUGAL. THE 5TH SAW A SLACK EASTERLY AIRSTREAM AND BY 6TH, A LOW 1013MB DEVELOPED OVER NORMANDY AS THE WINDS VEERED MORE WEST TO NORTHWESTERLY. ON 7TH THERE WAS A RIDGE, BUT THIS COLLAPSED LATER IN THE DAY, WHILST ON 8TH A BROAD WARM SECTOR COVERED ENGLAND BEFORE A WEAK COLD FRONT CLEARED LATE IN THE DAY. ON 9TH AND 10TH A BROAD WARM SECTOR COVERED MUCH OF THE UK OVERNIGHT ON 10TH A NEW WARM FRONT ARRIVED AND THIS PRECEDED A LOW 1004 WHICH MOVED ACROSS CORNWALL ON 11TH. DURING THE EVENING AND OVERNIGHT, IT'S ASSOCIATED OCCLUSION CLEARED AWAY. THE 12TH, 13TH & 14TH SAW A RIDGE OF HIGH PRESSURE PERSISTING. THE 15TH & 16TH SAW A BROAD WARM SECTOR . ON 17TH A RIDGE FROM AN AZORES HIGH PERSISTED BEFORE PRESSURE FELL LATE IN THE DAY. ON 18TH A LOW AND A THUNDERY TROUGH MOVED UP FROM THE SOUTH, THEN ON 19TH AN ISOBARIC TROUGH MOVED AWAY TO BE FOLLOWED BY A BRIEF WARM SECTOR, THEN A COLD FRONT OVERNIGHT. ON 20TH THERE WAS A RIDGE OF HIGH PRESSURE IN A WESTERLY AIRSTREAM. THE 20TH SAW LITTLE CHANGE, THEN DURING THE EVENING A FRONTAL SYSTEM ARRIVED FROM THE WEST AND THIS CLEARED EASTWARDS DURING THE EARLY AFTERNOON OF 21ST. ON 22ND A LOW 999MB SOUTH OF THE IRISH COAST BROUGHT AN OCCLUSION ACROSS THE REGION. BY 23RD THE LOW HAD FILLED TO 1009MB AND WAS OVER DENMARK AS A WESTERLY

AIRSTREAM ARRIVED AND THIS PERSISTED INTO THE 24TH. ON 25TH THERE WAS A 'COL' AREA OVER THE UK BEFORE A WARM FRONT ARRIVED LATE IN THE DAY. A COLD FRONT MOVED THROUGH DURING 26TH FOLLOWED ON 27TH BY A SLIGHTLY SHOWERY WESTERLY AIRSTREAM. A FRONTAL SYSTEM ARRIVED ON 28TH AND THE 29TH SAW A WAVING COLD FRONT IN THE ENGLISH CHANNEL AND THIS PUSHED NORTHWARDS DURING THE MORNING AS A WARM FRONT. A LOW 999MB LATER FORMED ON THIS AND MOVED INTO SE ENGLAND. ON 30TH THERE WAS A WEAK RIDGE COMBINED WITH A SLIGHTLY SHOWERY WESTERLY AIRSTREAM. THE 31ST SAW A LOW 997 TO THE NW OF IRELAND AS A SLIGHTLY SHOWERY WESTERLY AIRSTREAM COVERED THE UK.

JULY AS A WHOLE WAS A RATHER UNSETTLED MONTH WITH LITTLE IN THE WAY OF DRY SPELLS. SOME OF THE LARGER RAINFALL TOTALS INCLUDED 12.5MM ON 11TH, 27.1MM ON 20TH, 13.6MM ON 21ST, 10.1MM ON 28TH & 15.0MM ON 29TH. FOG OCCURRED ON 1ST, 3RD, 13TH & 25TH. AT AROUND 1430 GMT ON 18TH THERE WAS DISTANT THUNDER AND A FEW MORE THUNDERS OCCURRED DURING THE AFTERNOON. WE WERE ON THE EDGE OF THE MAIN STORM, WHICH WAS TO THE NE & E OF HERE. THIS WAS THE SAME AFTERNOON THAT COVERACK WAS HIT BY FLOODING AND HAIL STONES THE SIZE OF 50P PIECES WERE OBSERVED THERE. (ESTIMATED RAINFALL THERE WAS 100MM IN 2 HOURS) (BOSCASTLE IN 2004 HAD DOUBLE THIS!) THE MONTH WAS WARMER AND WETTER THAN NORMAL. IT WAS THE WETTEST JULY HERE SINCE 2015. THE MEAN MIN TEMP WAS THE HIGHEST FOR ANY JULY SINCE 2010 AND THE MEAN TEMP WAS THE HIGHEST FOR ANY JULY SINCE 2014. THE LOWEST MIN TEMP WAS THE 'HIGHEST' FOR ANY JULY HERE AND THE MEAN SW SEA TEMP WAS THE LOWEST FOR JULY SINCE 2013. THE MAXIMUM (ESTIMATED) WIND GUST WAS 33KT (38 MPH) DURING MID-MORNING OF 21ST AND THE PREDOMINANT WIND DIRECTION WAS AGAIN WESTERLY, FOLLOWED BY EASTERLY.

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ALL READINGS DONE BY PAUL RICHARDS AT 40 CRELOW FIELDS, STITHIANS. WE ARE A MET. OFFICE REGISTERED RAINFALL STATION (379547) THROUGH THE ENVIRONMENT AGENCY IN BODMIN. THE STATION HEIGHT IS AT 120M (396FT) ABOVE MSL. WE ALSO SUPPLY MONTHLY DATA TO THE WEATHER OBSERVER'S NETWORK IN ESSEX AND WEEKLY DATA TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH