

STITHIANS WEATHER SUMMARY

JULY 2019

HIGHEST MAXIMUM TEMPERATURE	25.9C (09th)
HIGHEST MINIMUM TEMPERATURE	17.2C (22nd)
LOWEST MAXIMUM TEMPERATURE	17.1C (01st)
LOWEST MINIMUM TEMPERATURE	04.8C (02 nd & 04th)
MEAN MAXIMUM TEMPERATURE	21.4C (10YR) 20.0C (31YR) 19.2C
MEAN MINIMUM TEMPERATURE	11.3C (10YR) 12.2C (31YR) 11.8C
MEAN TEMPERATURE FOR MONTH	16.3C (10YR) 16.1C (31YR) 15.5C
MAX. DAILY TEMPERATURE RANGE	18.0C (05th)
MEAN DAILY TEMPERATURE RANGE	10.1C
TOTAL RAINFALL	67.0MM (10YR) 94.3MM (31YR) 84.4MM
MAXIMUM RAINFALL IN 24 HOURS	31.9MM (29th)
RAIN DAYS (0.2MM OR MORE)	08
WET DAYS (1.0MM OR MORE)	06
DAYS WITH RAIN INCLUDED	15
DAYS WITH HAIL	00
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	00
MAXIMUM ATMOSPHERIC PRESSURE	1027.0 MB (02 nd & 03rd)
MINIMUM ATMOSPHERIC PRESSURE	996.0 MB (30th)
MEAN ATMOSPHERIC PRESSURE	1016.7 MB (31YR MEAN) 1016.8 MB
MEAN SOUTHWEST SEA TEMPERATURE	17.5C (JUL 1986-2018 AVE) 16.0C
10YR RUNNING MEAN SW SEA TEMP	(JUL 2009-2018) 16.5C

NOTES

SYNOPTIC SITUATION: ON THE 1ST THERE WAS A RIDGE OF HIGH PRESSURE WHICH PERSISTED ON THE 2ND AS A HIGH (1031MB) W OF IRELAND INTENSIFIED. THIS SITUATION CONTINUED ON THE 3RD.

BY THE 4TH THE HIGH TO THE W OF IRELAND HAD DECLINED TO 1029MB, WHILST MAINTAINING A RIDGE OVER THE UK. THIS RIDGE PERSISTED THE ON 5TH BEFORE DECLINING LATE IN THE DAY.

ON THE 6TH THERE WAS A SLACK LOW PRESSURE AREA & ON THE 7TH A VERY WEAK COLD FRONT LINGERED OVER THE REGION BEFORE A RIDGE ARRIVED(FROM A HIGH 1023MB OFF NE ENGLAND ON THE 8TH. THIS RIDGE PERSISTED ON THE 9TH & 10TH AS THE HIGH (1020MB) MOVED INTO THE EASTERN ENGLISH CHANNEL.

BY THE 11TH THE RIDGE HAD DECLINED AS A SLACK LOWER PRESSURE AREA COVERED THE REGION. DURING THE EVENING, A WEAK OCCLUSION ARRIVED WHICH CLEARED OVERNIGHT. ON THE 12TH A WEAK RIDGE (FROM A HIGH 1025MB SW OF IRELAND) BEGAN TO INTENSIFY & CONTINUED INTO THE 13TH.

BY THE 14TH THE HIGH (1027MB) HAD MOVED TO . IRELAND WHILST ALSO DOMINATING THE WEATHER ACROSS THE BRITISH ISLES. THIS CONTINUED ON THE 15TH AS THE HIGH (1023MB) MOVED TO NE ENGLAND.

ON THE 16TH A HIGH (1028MB) NE OF THE AZORES EXTENDED A RIDGE TO & OVER THE UK BUT BY THE 17TH THIS HAD DECLINED AS A COLD FRONT MOVED EASTWARDS & CLEARED OVERNIGHT.

ON THE 18TH THERE WAS A WEAK RIDGE BEFORE A FRONTAL SYSTEM ARRIVED OVERNIGHT. ON THE 19TH THIS PERSISTED ALL DAY BEFORE CLEARING OVERNIGHT.

BY THE 20TH THERE WAS A WEAK RIDGE WHICH SUBSEQUENTLY INTENSIFIED ON THE 21ST. BY THE 22ND A BROAD, MOIST WARM SECTOR COVERED ALL AREAS, AT THE SAME TIME BEING SUPPORTED BY A RIDGE OF HIGH PRESSURE FROM A HIGH 1025MB OVER MID-ENGLISH CHANNEL.

ON THE 23RD THE RIDGE STEADILY DECLINED AS A SHOWER TROUGH MOVED UP FROM BISCAY DURING THE EVENING. ON THE 24TH A WEAK RIDGE PREVAILED BEFORE A WEAK COLD FRONT MOVED EASTWARDS DURING THE EVENING OF THE 25TH.

A SW AIRSTREAM ARRIVED ON THE 26TH AND ON THE 27TH THIS VEERED WEST-NORTHWESTERLY. THIS SITUATION CONTINUED ON THE 28TH. THE 29TH SAW A DEEP LOW (989MB) CENTRED AT 47.5N/08W AT 1200 GMT WHICH PUSHED AN OCCLUSION UP ACROSS CORNWALL. THIS LOW MOVED SLOWLY NORTHEAST TO BE

POSITIONED OVER PLYMOUTH (994MB) BY 0600 GMT ON THE 30TH. MEANWHILE, IT'S WRAPPED AROUND OCCLUSION WAS PRODUCING PLENTY OF HEAVY RAIN & SHOWERS.

BY THE 31ST THIS HAD MOVED TO NE ENGLAND AND HAD FILLED TO 1005MB BY 1200 GMT AS AN OCCLUSION CLEARED NE ACROSS CORNWALL BY THIS TIME.

THE MAIN ATLANTIC JET STREAM WAS TO THE NORTH OF THE UK ON THE 3RD, 4TH, 5TH & 23RD. IT WAS TO THE WEST ON THE 2ND, 10TH, 11TH, 14TH-17TH, 24TH, 25TH & 31ST. IT WAS OVER THE UK ON THE 1ST, 6TH-8TH, 12TH, 13TH, 18TH-22ND, 26TH & 30TH. IT WAS TO THE SOUTHWEST ON THE 9TH, 28TH & 29TH. IT WAS TO THE SOUTH ON THE 27TH.

THE JET STREAM WAS FRAGMENTED FROM THE 6TH-8TH, 15TH, 30TH & 31ST.

JULY 2019 WAS IN MANY RESPECTS SIMILAR TO JULY 2018 BUT IT WAS GENERALLY A LITTLE COOLER. THE FIRST 16 DAYS WERE PREDOMINANTLY DRY APART FROM 0.6MM ON THE 11TH. IT WAS ALSO WARM, ESPECIALLY BY DAY, ALTHOUGH A FEW OF THE NIGHTS WERE CHILLY AND WINDS WERE FAIRLY LIGHT THROUGHOUT. FROM THE 17TH ONWARDS, ALTHOUGH WARMER THAN AVERAGE IT ALSO BECAME MORE CHANGEABLE AND WETTER AS THE PRESSURE GRADUALLY LOWERED. THE WETTEST DAYS WERE THE 18TH (14.1MM), 19TH (11.9MM) & 29TH (31.9MM).

THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 32KT (37 MPH) AND THE MAIN WIND DIRECTION WAS EQUALLY DIVIDED BETWEEN WEST AND NORTHEAST.

ALL READINGS DONE BY PAUL RICHARDS AT 40 CRELOW FIELDS, STITHIANS. OBSERVATIONS ARE DONE 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 & WEEKLY DATA TO THE WEATHERNET ORGANISATION IN BOURNEMOUTH.

