

# STITHIANS WEATHER SUMMARY

## SEPTEMBER 2018

HIGHEST MAXIMUM TEMPERATURE	22.4C (02nd)
HIGHEST MINIMUM TEMPERATURE	16.0C (17th)
LOWEST MAXIMUM TEMPERATURE	13.1C (23rd)
LOWEST MINIMUM TEMPERATURE	-00.5C (25th)
MEAN MAXIMUM TEMPERATURE	17.4C (10YR) 16.9C (30YR) 16.9C
MEAN MINIMUM TEMPERATURE	09.6C (10YR) 10.0C (30YR) 09.9C
MEAN TEMPERATURE FOR MONTH	13.5C (10YR) 13.4C (30YR) 13.4C
MAX. DAILY TEMPERATURE RANGE	17.5C (26th)
MEAN DAILY TEMPERATURE RANGE	07.8C
TOTAL RAINFALL	70.7MM (10YR) 95.3MM (30YR) 91.8MM
MAXIMUM RAINFALL IN 24 HOURS	25.3MM (20th)
RAIN DAYS (0.2MM OR MORE)	16
WET DAYS (1.0MM OR MORE)	09
DAYS WITH RAIN INCLUDED	19
DAYS WITH HAIL	00
DAYS WITH THUNDER	00
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 00
AIR FROSTS (-00.1C OR BELOW)	01
MAXIMUM ATMOSPHERIC PRESSURE	1039.0 MB (24th)
MINIMUM ATMOSPHERIC PRESSURE	999.0 MB (20th)
MEAN ATMOSPHERIC PRESSURE	1021.7 MB (30YR MEAN) 1016.7 MB
MEAN SOUTHWEST SEA TEMPERATURE	16.0C (SEP 1986-2017 AVE) 16.2C
10YR RUNNING MEAN SW SEA TEMP	(SEP 2008-2017) 15.8C

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## NOTES

THE MAIN ATLANTIC JET STREAM BEGAN TO STRENGTHEN DURING SEPTEMBER. IT WAS TO THE NW OF THE BRITISH ISLES ON 1ST-5TH & 25TH & 26TH. IT WAS TO THE WEST ON THE 6TH, 8TH-9TH, 17TH-18TH & 29TH. IT WAS OVER THE UK ON THE 7TH, 10TH-15TH, 19TH-24TH, 27TH, 28TH & 30TH.

SYNOPTICALLY, THE SITUATION WAS AGAIN MOBILE, OFTEN WITH CONSTANT DAILY CHANGES. ON THE 1ST A WARM FRONT WAS EMBEDDED WITHIN A WEAK RIDGE AND ON THE 2ND THIS PERSISTED AS THE WARM FRONT DIED OUT. ON THE 3RD A WEAK COLD FRONT MOVED THROUGH IN THE EVENING. ON THE 4TH THE REMNANTS OF THIS DRIFTED BACK WHILST AT THE SAME DYING OUT AS THE RIDGE KILLED IT OFF. THE 5TH DAWNED WITH A RIDGE WHICH PERSISTED THROUGHOUT THE DAY. ON THE 6TH A WEAK WARM FRONT CLEARED EARLY, THEN A COLD FRONT ARRIVED LATE EVENING WHICH LINGERED OVERNIGHT AND CLEARED EARLY ON THE 7TH. THIS WAS IN TURN FOLLOWED BY A WEAK RIDGE.

ON THE 8TH A WARM SECTOR COVERED THE REGION BEFORE A WEAK COLD FRONT CLEARED EARLY ON THE 9TH AND A WEAK RIDGE ARRIVED LATER. THIS RIDGE PERSISTED ON THE 10TH & ON THE 11TH A WEAK COLD FRONT LASTED ALL DAY.

AS THE 12TH DAWNED THIS COLD FRONT WAS STILL AROUND, BUT BY 1200GMT HAD MOVED OFF SOUTHWARDS AS A RIDGE INTENSIFIED WHICH CONTINUED ON THE 13TH, 14TH & 15TH.

ON THE 16TH A COLD FRONT EDGED SE AND ARRIVED LATE EVENING. ON THE 17TH A RETURNING WARM SECTOR PRECEDED A COLD FRONT DURING MID-EVENING. WHICH UP FROM THE SOUTH WEST AS EX-HURRICANE 'HELENE' MOVED NE TO BE 989MB AT 50N/10W AT 1800GMT.

ON THE 18TH A COLD FRONT MOVED DOWN ACROSS THE AREA LATE EVENING & DURING THE EARLY HOURS OF THE 19TH. ON THE 19TH STORM 'ALI' (975MB) WAS AT 53N/12W AT 0600GMT. BY 1200GMT ON THE 19TH IT WAS 975MB OVER NE SCOTLAND WITH A COLD FRONT EXTENDING FROM NE SCOTLAND TO LANCASHIRE TO THE ISLES OF SCILLY & SOUTHWESTWARDS. BY 1800GMT IT WAS CENTERED AT 61N/00W AS IT'S COLD FRONT LINGERED OVER SOUTH CORNWALL, RETURNING LATER AS A WARM FRONT.

BY THE 20TH, A NEW LOW (1002MB) HAD DEVELOPED TO THE SW OF IRELAND. THIS WAS LATER NAMED STORM 'BRANAGH'. BY 1800GMT ON THE 20TH IT WAS 993MB JUST SOUTH OF CORK. ON THE 21ST A SHOWERY WESTERLY AIRSTREAM COVERED THE REGION AND ON THE 22ND A LOW (1007MB) CROSSED S ENGLAND FROM THE WEST WHICH GAVE A WHOLE DAY OF RAIN & DRIZZLE.

THIS WAS REPLACED ON THE 23RD BY A FRESH W/NW AIRSTREAM AS PRESSURE ROSE STEADILY FROM THE WEST. BY THE 24TH A HIGH (1040MB) HAD DEVELOPED OVER SW IRELAND WHICH EXTENDED A RIDGE OVER THE UK.

BY THE 25TH THIS HIGH HAD MOVED TO HOLLAND WHILST STILL MAINTAINING THE RIDGE. BY THE 26TH THE HIGH HAD MOVED EVEN FURTHER TO THE EAST AS IT MAINTAINED THE RIDGE OVER THE REGION. ON THE 27TH THIS WAS REPLACED BY A NEW HIGH (1036MB) AT 53N/31W WHICH EXTENDED A RIDGE TO SOUTHERN ENGLAND. THIS CONTINUED FOR THE REMAINDER OF THE MONTH.

SEPTEMBER AT LAST SAW SOME SEASONAL COOLING, BUT NEVERTHELESS IT WAS NOT COOL! ALTHOUGH THE MEAN TEMP. WAS VERY CLOSE TO NORMAL, THE MEAN MAX WAS 0.5C ABOVE NORMAL AND THE MEAN MIN TEMP WAS THE LOWEST IN ANY SEPTEMBER SINCE 2015. IT WAS ALSO THE DRIEST SEPTEMBER SINCE 2015 WITH MUCH OF THE MONTH'S RAINFALL OCCURRING ON JUST TWO DAYS, NAMELY THE 20TH WITH 25.3MM AND 22ND WITH 17.6MM.

THE LAST WEEK WAS MUCH DRIER BUT ALSO COLDER, ESPECIALLY AT NIGHT WHEN THE FIRST EVER SEPTEMBER AIR FROST OCCURRED ON 25TH. APART FROM AROUND THE 19TH/20TH, THE MEAN ATMOSPHERIC PRESSURE REMAINED RELATIVELY HIGH THROUGHOUT THE MONTH, WITH IT BEING THE HIGHEST FOR ANY SEPTEMBER SINCE 2009. THE ABSOLUTE MAX. TEMP WAS THE HIGHEST IN ANY SEPTEMBER SINCE 2011 AND THE 26TH SAW A NEW RECORD HIGH FOR THE MONTH WITH REGARD TO THE DAILY TEMPERATURE RANGE.

THE MAIN WIND DIRECTION WAS WESTERLY, CLOSELY FOLLOWED BY EASTERLY, THEN SOUTHWESTERLY. THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 36KT (41MPH) DURING THE LATE EVENING OF 20TH.

ON THE 14TH AT AROUND 0310GMT THERE WAS A SLIGHT EARTH TREMOR MEASURING MAG 0.9 AND THIS WAS CENTRED ON PENRYN. (THIS WAS FELT IN STITHIANS AS A RUMBLE).

ON THE 25TH AT AROUND 1340GMT THERE WAS ANOTHER PROBABLE (STRONGER) EARTH TREMOR (HEARD AND FELT HERE AS A RUMBLE TO THE ESE). BOTH OF THESE INCIDENTS WERE RECORDED ON THE CONTINUOUS RECORD TRACE AT THE CARMENELLIS SEISMOGRAPH STATION. THIS STATION IS OPERATED BY THE BRITISH GEOLOGICAL SURVEY, AND IS ONE OF A NUMBER OF THESE STATIONS THROUGHOUT THE BRITISH ISLES.

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