

# STITHIANS WEATHER SUMMARY

## FEBRUARY 2018

HIGHEST MAXIMUM TEMPERATURE	10.6C (14th)
HIGHEST MINIMUM TEMPERATURE	08.2C (19th)
LOWEST MAXIMUM TEMPERATURE	-02.0C (06th)
LOWEST MINIMUM TEMPERATURE	-05.7C (06th)
MEAN MAXIMUM TEMPERATURE	06.3C (10YR) 08.4C (30YR) 08.5C
MEAN MINIMUM TEMPERATURE	01.0C (10YR) 03.1C (30YR) 03.3C
MEAN TEMPERATURE FOR MONTH	03.6C (10YR) 05.7C (30YR) 05.9C
MAX. DAILY TEMPERATURE RANGE	13.0C (14th)
MEAN DAILY TEMPERATURE RANGE	05.2C
TOTAL RAINFALL	119.8MM (10YR) 120.0MM (30YR) 130.0MM
MAXIMUM RAINFALL IN 24 HOURS	22.5MM (08th)
RAIN DAYS (0.2MM OR MORE)	16
WET DAYS (1.0MM OR MORE)	13
DAYS WITH RAIN INCLUDED	17
DAYS WITH HAIL	08
DAYS WITH THUNDER	01
DAYS WITH SLEET OR SNOW	SLT 00 / SNW 04
AIR FROSTS (-00.1C OR BELOW)	10
MAXIMUM ATMOSPHERIC PRESSURE	1028.0 MB (04th)
MINIMUM ATMOSPHERIC PRESSURE	994.0 MB (13th)
MEAN ATMOSPHERIC PRESSURE	1016.5 MB (30YR MEAN) 1016.1 MB
MEAN SOUTHWEST SEA TEMPERATURE	09.5C (FEB 1986-2017 AVE) 09.6C
10YR RUNNING MEAN SW SEA TEMP	(FEB 2008-2017) 09.8C

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## NOTES

THE MAIN ATLANTIC JET STREAM AGAIN VARIED WIDELY THROUGHOUT THE MONTH OF FEBRUARY. IT WAS POSITIONED DIRECTLY OVER THE UK ON THE 2ND, 4TH & 5TH, 7TH, 10TH & 11TH, 14TH -16TH, 18TH, 26TH & 27TH. IT WAS TO THE NW ON 20TH. IT WAS TO THE W, N & E ON 19TH, 21ST & 22ND, TO THE W & SE ON THE 23RD & TO THE W & E ON THE 25TH. IT WAS TO THE W ON THE 1ST, 6TH, 8TH, 9TH, 17TH & 24TH, TO THE SW ON 3RD, 12TH & 13TH AND TO THE SOUTH ON THE 28TH.

SYNOPTICALLY, IT WAS A CONSTANTLY CHANGING PICTURE THROUGHOUT. ON THE 1ST, A SLIGHTLY SHOWERY WNW AIRSTREAM COVERED ALL AREAS AND ON THE 2ND A RIDGE OF HIGH PRESSURE MOVED ACROSS BEFORE A FRONTAL SYSTEM ARRIVED FROM THE WEST DURING LATE EVENING. THE 3RD SAW A SHOWERY NW AIRSTREAM, BEFORE A NEW RIDGE ARRIVED WHICH PERSISTED DURING 4TH & 5TH. BY THE 6TH AN OCCLUSION HAD MOVED IN, BRINGING OUTBREAKS OF SNOW WHICH LATER MOVED AWAY EASTWARDS. THE 7TH SAW A SHOWER TROUGH FROM THE ISLE OF MAN TO CORNWALL (THIS WAS EMBEDDED WITHIN A RIDGE). A WARM FRONT WAS APPROACHING IRELAND. ON 8TH, A WARM SECTOR PERSISTED BEFORE A COLD FRONT CLEARED LATE EVENING, BEING FOLLOWED BY A COOL & SLIGHTLY SHOWERY NW AIRSTREAM ON THE 9TH, BEFORE A FRONTAL SYSTEM ARRIVED ON THE 10TH. THIS PERSISTED ALL DAY UNTIL A COLD FRONT CLEARED IN THE LATE EVENING. BY THE 11TH, A COLD W/NW AIRSTREAM HAD SPREAD IN AND ON THE 12TH A WEAK RIDGE COVERED THE REGION BEFORE THIS COLLAPSED LATE IN THE DAY. OVERNIGHT ON THE 12TH AN ACTIVE FRONTAL SYSTEM CLEARED EASTWARDS, BEING FOLLOWED ON THE 13TH BY A SHOWERY W/NW AIRSTREAM. ON THE 14TH, DURING THE EARLY HOURS, A NEW FRONTAL SYSTEM ARRIVED FROM THE SW. THIS MOVED AWAY TO THE SE OVERNIGHT, BEING FOLLOWED ON THE 15TH BY A COOLER & SHOWERY W AIRSTREAM BEFORE A RIDGE MOVED IN FROM THE SW DURING THE EVENING. THIS PERSISTED ON THE 16TH. LATE IN THE DAY AN OCCLUSION ARRIVED AND THIS CLEARED AWAY OVERNIGHT. THIS WAS FOLLOWED BY ANOTHER HIGH PRESSURE RIDGE ON THE 17TH. LATER IN THE DAY, A FRONTAL SYSTEM MOVED UP FROM THE SW WHICH PERSISTED ON THE 18TH. ON THE 19TH A RIDGE WAS EMBEDDED WITHIN A BROAD WARM SECTOR, BEFORE THE COLD FRONT CLEARED BY MIDNIGHT. ON THE 20TH A HIGH 1032MB AT 50N/16W BUILT A RIDGE OVER THE UK & BY THE 21ST THIS HAD MOVED INTO SCOTLAND AND BECAME A BLOCKING FEATURE AS A COLD EASTERLY AIRSTREAM ARRIVED. BY THE 22ND THE BLOCKING HIGH HAD MOVED TO SW NORWAY AND IT THEN STRETCHED A RIDGE OVER THE UK & SOUTHWESTWARDS. THIS PERSISTED ON THE 23RD, 24TH & 25TH AS THE HIGH (1049MB) MOVED TO THE NORTH OF SCANDINAVIA. MEANWHILE, A QUASI-STATIONARY SHOWER TROUGH LAY FROM E-W IN THE MID-ENGLISH CHANNEL. ON THE 27TH, PRESSURE FELL STEADILY AS THE PRIMARY COLD EASTERLY AIRSTREAM

CAME IN. ON 28TH A VERY STRONG AND BLOCKING HIGH (1052MB) OVER MID-SCANDINAVIA PERSISTED. THE TROUGH IN THE ENGLISH CHANNEL (MAINLY THROUGH CONVECTION) SOON INTENSIFIED AND LATER PUSHED NORTHWARDS, BRINGING EXTENSIVE & WIDESPREAD, DISRUPTIVE SNOWFALL TO SOUTHERN & SOUTHWEST ENGLAND. THE DRY & POWDERY 'CONTINENTAL' TYPE SNOW, COMBINED WITH STRONG & GUSTY WINDS ALSO LED TO DEEP DRIFTING.

FEBRUARY WAS COLDER THAN JANUARY, WITH ALL MEAN TEMPERATURES 2.3C BELOW THE LONG TERM AVERAGE FOR THE MONTH. IT WAS OFTEN VERY CLOUDY OR OVERCAST, EXCEPT AT NIGHT, WHEN CLEAR SKIES OFTEN RESULTED IN AIR FROSTS OCCURRING. HAIL WAS RECORDED ON THE 1ST, 3RD, 6TH, 7TH, 11TH, 12TH, 13TH & 28TH. THUNDER OCCURRED TO THE SE AT 1115 GMT ON THE 28TH. AND SNOW WAS RECORDED ON THE 6TH, 7TH, 26TH & 28TH.

WITH REGARD TO RAINFALL, IT WAS THE DRIEST FEBRUARY HERE SINCE 2015 AND OVERALL, THE RAINFALL TOTAL WAS VERY CLOSE TO NORMAL. HEAVIER 24HR TOTALS INCLUDED 13.3MM ON THE 3RD, 12.3MM ON THE 6TH, 19.5MM ON 12TH & 11.4MM ON THE 14TH. THE PREDOMINANT WIND DIRECTIONS WERE WEST & NORTHWESTERLY AND THE MAXIMUM (ESTIMATED) WIND GUST FOR THE MONTH WAS 33KT (38MPH) WHICH OCCURRED DURING THE EARLY HOURS OF 13TH.

THE MEAN MAX. TEMP. WAS THE LOWEST FOR ANY FEB. SINCE 2006. THE MEAN MIN. TEMP WAS THE LOWEST FOR ANY FEB. SINCE 2015 & THE MEAN TEMPERATURE WAS THE LOWEST FOR ANY FEBRUARY HERE SINCE 1991, AS WAS ALSO THE LOWEST MAX. TEMP. (I.E. THE COLDEST DAY) WHICH, (ALSO BEING A 'FROST DAY') STOOD AT -2.0C. THE MEAN SW SEA TEMPERATURE WAS THE LOWEST VALUE FOR ANY FEBRUARY SINCE 2010. THE WINTER AS A WHOLE WAS THE WETTEST HERE SINCE 2015, THE MEAN MAX. TEMP. WAS EQUAL WITH WINTER 2014 AND THE MEAN TEMP. WAS ALSO THE COLDEST SINCE 2014.

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. 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.

