Monthly WeatherNo. 300BulletinAPRIL 2011



During the fine weather over Easter weekend, a racer competes in the third stage of the Rás Mumhan Race around the roads of Valentia Island, County Kerry (picture courtesy Irish Examiner)

WARM, DRY AND SUNNY AFTER UNSETTLED START

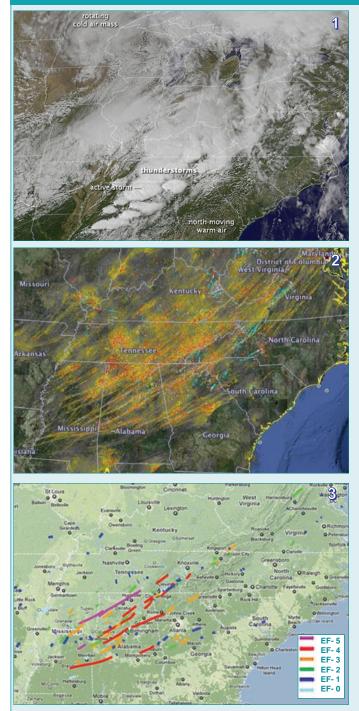
After a wet start, most of April was dry and sunny with above normal temperatures. Mean air temperatures for the month of between 10°C and 12°C were around three degrees higher than normal and it was the warmest April on record at most stations. At the long-term stations of Malin Head and Valentia Observatory it was the warmest April in over a century of record, but in some eastern areas it was not as warm as April 2007. Highest temperatures this month were recorded mainly on the 10th and during the period 20th to 22nd, when daily maximum values rose above 20°C. These were the highest April values for at least eight years in many places and

| S | INSIDE Tornado Outbreak in the USA - page 2 | Rainfall 10 Temperature 12 Sunshine 14 World weather 15 Feature 16 | Produced by Met Éireann, Glasnevin Hill, Dublin 9. Annual subscription 80 euro VIII |
|----------------|---|--|--|
| MET éireann | Wind & Elements4Marine & Pressure5Agmet /Lab6Diary8 | Celebrating 25 years of the Weather Bulletin | fax: +353-1-8064200 fax: +353-1-8064216 climate.enquiries@met.ie www.met.ie/climate Notes on the tables and map showing location of stations appear in January issue |

WEATHER

Malin Head's maximum of 20.8°C on the 22nd was the highest recorded for April since the station opened. Most stations recorded between three and 14 ground frosts during the month, around average for the time of year, but with little frost observed near the Atlantic coast. Rainfall accumulations were below average at most stations this month, receiving 40% to 90% of normal, but totals were above average for some stations in the west and northwest. Almost all of the month's rainfall fell during the first half, with heavy falls during the first week, some with thunder. Most stations recorded between four and nine wetdays during the month (days with 1mm or more rainfall), around half of the normal number for April of between 10 and 14 wetdays. Sunshine totals were above normal across the country, with highest

TORNADO OUTBREAK IN THE UNITED STATES



April 2011 is ranked by the National Weather Service (NWS) in the United States as the most active tornado month on record with 875 reported . The previous record during any month was 542 tornadoes set in May 2003. There were an estimated 361 fatalities in April, the majority of which occurred during the tornadic events of April 27th and April 28th which saw the deadliest tornado outbreak in the United States since 1974. This resulted in more than 150 tornadoes being recorded and 250 people being killed in 6 states.

The image left (picture I) from the geostationary GOES East satellite shows the storms at 13.45 UTC on April 27th. A relatively stable mass of cold air is visible as a swirl in the almost continuous cloud cover; the rotation evident to the north at the top centre of the satellite image. Meanwhile, moist air is pushing north and west from the Atlantic Ocean and the Gulf of Mexico this shows up on the image as a pattern of small, low clouds over Georgia and South Carolina. The collision of two such air masses is, of itself, enough to generate severe weather but on April 27th the severity of the weather was amplified by the positioning of the jet stream. This narrow band of fast-moving air aloft blew northeastwards between the two air masses, along the frontal boundary, and added extra vorticity, or spin tendency, to the atmospheric equation. Powerful small-scale circulation patterns generated in the lines of intense thunderstorms, giving rise to the so-called supercells which spawn tornadoes. The National Severe Storms Laboratory (NSSL) released a composite radar image (picture 2) showing the striated lines of intense thunderstorms and, within these, the very small-scale intense circulations (in red) which indicate the presence of tornadic activity. Picture 3 shows the preliminary tornado tracks, colour-coded for intensity, based on the NWS forecast office damage surveys.

The most severe tornado during the 27th to the 28th outbreak was at Hackleburg, Marion County, Alabama, which reported a violent tornado with a measurement of Enhanced Fujita Scale 5 (EF-5). Estimated maximum winds were of 370 to 390km per hour, a damage path length of 46km and maximum tornado width path of nearly 1.5km. The main indicators of Hackleburg having an EF-5 tornado was the tossing of vehicles 140 to 180 metres and the levelling of a well built brick home. Numerous people were reported injured and 78 people were confirmed dead.

All information and text are courtesy NOAA's National Weather Service and NASA Earth Observatory. Picture one courtesy NASA Earth Observatory http://earthobservatory.nasa.gov/ Picture two courtesy NOAA's National Severe Storms Laboratory http://www.nssl.noaa.gov/ Picture three courtesy NOAA's National Weather Service Southern Region Headquarters http://www.srh.noaa.gov/

WEATHER

monthly totals in the east; Dublin Airport and Casement Aerodrome both had their sunniest April day on record on the 28th, while Belmullet equalled the highest ever daily value for April with 14.1 hours on the 29th.

1st to 6th: A series of Atlantic depressions located northwest of the Irish coastline brought a wet start to the month, especially in the west and northwest. Thunderstorms gave some locally heavy falls across the country. Winds were fresh to strong south to southwesterly, with gale gusts recorded in many locations. Some sunshine on most days, with temperatures slightly above normal.

7th to 10th: A high pressure system located over Europe brought a period of dry, warm and mostly sunny weather to the country with little or no rainfall. Daytime temperatures were well above normal, but with slight ground frost recorded on some nights.

11th to 14th: A return to unsettled weather with widespread showers and prolonged periods of rain, heaviest on the 13th. Temperatures returned to near normal values, with strong southwest to westerly winds at times; gale gusts were recorded on most days.

15th to 30th: This period was dominated by high pressure close to Ireland, giving mostly dry and sunny conditions, with highest temperatures of the month being recorded in the period 20th to the 22nd almost everywhere. Small amounts of rainfall also fell on a number of days, with thunderstorms experienced in the west and northwest on the 21st and 22nd. Winds were light for most of the period.

Wind and elements: Mean windspeeds for the month were near normal, varying between 6 and 13 knots generally (11 and 24km/h). The strongest winds were recorded on the 1st, 4th and 11th with the month's highest gust of 54 knots (100km/h) at Belmullet on the 1st. Thunderstorms were most widespread during the first week, especially on the 1st and 2nd, and the period 21st to 22nd. Hail was observed only on the 2nd, 3rd and 11th. Light winds experienced between the 7th and 10th led to fog being reported in some areas.



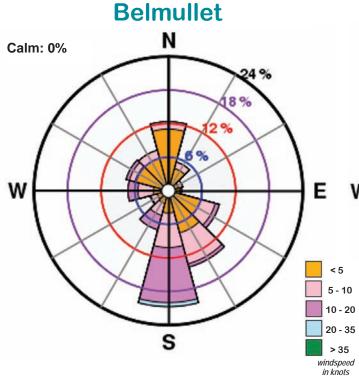
On a calm morning, a small fishing boat is surrounded by evaporation fog on the sea at Tralee Bay, Co. Kerry (picture courtesy Irish Examiner)

WIND & ELEMENTS

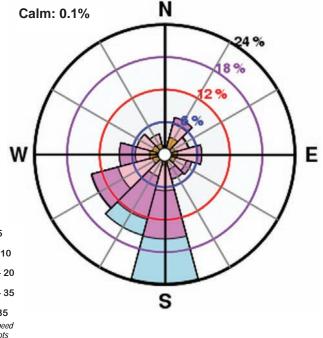
ELEMENTS

WIND (KNOTS)

County / Mean Max. 10-min. mean Days with Hours with Max. Gust Station speed dir. speed date/hour dir. speed date/time gales gale gusts gale gusts Snow Snow Lying Hail Thunder Fog CO. CARLOW 25 Oak Park 5.9 180° 1/16 180° 37 1/1627 0 1 11 CO. CAVAN Ballyhaise 6.0 220° 21 4/13 230° 34 4/1503 0 1 5 CO. CLARE 170° Shannon Airport 7.4 170° 28 1/10 37 1/0926 0 1 5 0 0 1 3 0 CO. CORK Roche's Point 9.9 200° 32 4/09 200° 40 4/0920 0 5 65 Cork Airport 210° 27 210° 39 4/2336 12 0 9 8.3 4/23 0 4 0 0 0 CO. DONEGAL Malin Head 12.6 180° 33 4/09 180° 49 4/0757 0 9 73 0 0 0 0 0 110° 33 30/05 CO. DUBLIN 2 Dublin Airport 8.9 280° 28 11/14 290° 40 11/1532 0 4 16 0 0 1 1 Casement 190° 32 1/10 200° 45 1/0929 0 5 30 0 0 1 1 8.5 1 CO. KERRY Valentia Observatory 7.0 210° 25 4/23 200° 38 4/2147 0 3 14 0 0 0 0 4 CO. MAYO Belmullet 10.6 180° 36 4/06 190° 1/1058 2 9 73 0 0 0 54 1 1 Knock Airport 190° 1/12 190° 1/1124 0 2 5 8.8 27 41 0 4 14 0 0 CO. TIPPERARY Gurteen 7.5 190° 25 1/11 280° 40 11/1449 0 4 15 CO. WESTMEATH 180° 260° Mullingar 19 5.8 1/10 32 11/1303 0 0 2 CO. WEXFORD Johnstown Castle 6.4 210° 20 5/00 210° 34 4/2246 0 1 3







PERCENTAGE FREQUENCY OF WIND DIRECTION



MARINE & PRESSURE

MARINE OBSERVATIONS FROM IRISH MARINE DATA BUOY NETWORK **M3** Sea Mean Wind Direction 41 30 27 Buoy surface wind speed temp. (knots) (°C) from м2 not degrees 90 12.8 **M**3 11.7 Wind Speed 10.7 15.8 М4 М5 10.5 10.8 knots 23 20 10.9 м6 not 15 9.3 Malin Head Sea Temperature 8 M4 🍐 Wave Height metres 6 **~**M6 0 12 14 Hourly wind and wave conditions at M3 (51.2°N, 10.5°W)

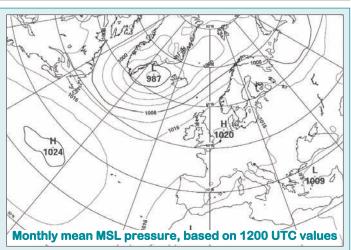
Max. Mean Max. 10-min wave wave wind height height (knots) (m.) (m.) available 29 2.8 5.5 35 n/a n/a 27 1.5 4.2 available

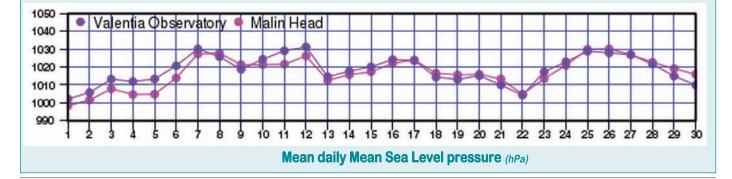
Summary of Mean Monthly Values



MEAN ATMOSPHERIC PRESSURE

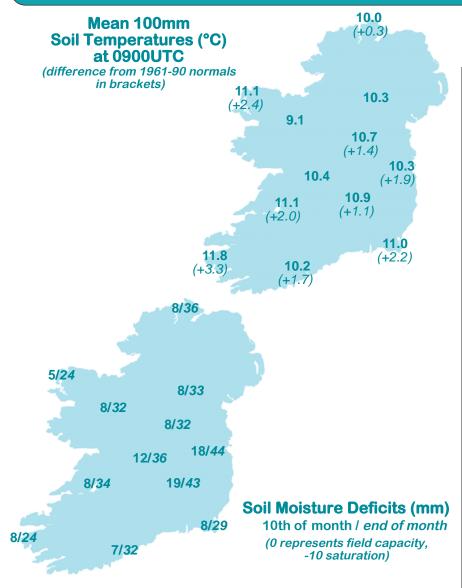
Mean pressure values for the April were between 1016hPa and 1018hPa which is just slightly above normal for the time of year. The month was mainly dominated by high pressure, however, at the start of the month Atlantic depressions affected the country resulting in the lowest pressure of 996.0hPa being recorded at Malin Head on the 1st. Pressure then rose well above average during the second week recording the month's highest pressure value of 1034.4hPa at Valentia Observatory on the 12th.





AGMET / LABORATORY

April 2011



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Soil Temperatures at 0900UTC

| County/ | | °C | |
|-------------------------|-------|-------|-------|
| Station | 100mm | 200mm | 300mm |
| CO. CARLOW | | | |
| CARLOW (OAK PARK) | 10.9 | 10.9 | 11.0 |
| CO. CAVAN | | | |
| BALLYHAISE | 10.3 | 10.6 | 10.8 |
| CAVAN (LORETO COLLEGE) | | | |
| CO. CLARE | | | |
| SHANNON AIRPORT | 11.1 | 11.4 | 11.8 |
| CARRON | 11.0 | | 11.3 |
| CO. CORK | | | |
| ROCHE'S POINT | 11.1 | 11.1 | 11.5 |
| FERMOY (MOOREPARK) | 10.9 | 11.0 | |
| CORK AIRPORT | 10.2 | 10.4 | 10.9 |
| SHERKIN ISLAND | 11.4 | 11.4 | 11.3 |
| BALLINCURRIG (PEAFIELD) | 9.9 | 9.7 | 11.0 |
| CO. DONEGAL | | | |
| MALIN HEAD | 10.0 | 10.4 | 10.5 |
| CO. DUBLIN | | | |
| DUBLIN (PHOENIX PARK) | 10.9 | 11.4 | 11.2 |
| DUBLIN AIRPORT | 10.0 | 10.1 | 10.7 |
| CASEMENT AERODROME | 10.3 | 10.5 | 10.9 |
| CO. KERRY | | | |
| VALENTIA OBSERVATORY | 11.8 | 12.2 | 12.9 |
| CO. LIMERICK | | | |
| MOUNTRUSSELL | 10.4 | 11.2 | |
| CO. MAYO | | | |
| BELMULLET | 11.1 | 12.1 | 12.7 |
| STRAIDE | 11.0 | | |
| KNOCK AIRPORT | 9.1 | 9.7 | 10.2 |
| CO. MEATH | | | |
| WARRENSTOWN | 10.1 | 10.8 | 11.7 |
| CO. TIPPERARY | | | |
| GURTEEN | 10.4 | 10.5 | 10.9 |
| FETHARD (PARSONSHILL) | 10.2 | 11.0 | |
| CO. WATERFORD | | | |
| DUNGARVAN (CARRIGLEA) | | 11.1 | 11.5 |
| CO. WESTMEATH | | | |
| MULLINGAR | 10.7 | 10.8 | 11.3 |
| CO. WEXFORD | | | |
| JOHNSTOWN CASTLE | 11.0 | 10.9 | 11.2 |
| JOHN F. KENNEDY PARK | 11.2 | 11.4 | |
| CLONROCHE (KNOXTOWN) | | 11.3 | |
| CO. WICKLOW | 20.9 | | |
| ASHFORD (CRONYKEERY) | 11.0 | 11.1 | |
| | v | | |

Chemical Analysis of Precipitation and Air Samples at Valentia Observatory Precipitation 250 electrical conductivity pH and electrical conductivity are 200 not available on dry days (<0.2mm 150 100 50 0 6 8 2 12 4 10 '14' 22 26 16 18 20 24 28 µScm⁻¹ data shown here are interim values and are subject to change Air 5 NO2-N 4 SO2-S 2 3 SO4-S 2 µgsm⁻³ ė 1 • 0 4 6 10 12 16 18 20 22 24 8 14 26 28

Acid rain occurs when pollutants combine with moisture in the air to form sulphuric or nitric acid. pH is the simplest way of measuring the acidity of precipitation. Usually pH of 7.00 is considered neutral but this is not the case in rainfall samples. Pure water in the atmosphere has an equilibrium pH value of 5.65 at 20°C owing to carbon dioxide in the air dissolving to form carbonic acid. Any value below pH 5.65 is considered acid while any value above is considered alkaline.

pH

Sulphur dioxide and sulphate in air contribute to the formation of sulphuric acid; nitrate in air contributes to the formation of nitric acid.

Conductivity measures the total ion activity in the rainfall, i.e. the higher the conductivity the greater the number of ions present.

AGMET

| 10-day values for s Agrometeoroloc | | R | RAIN (MM | IFALL N) | | | | Темр | PERATL | JRE | (°C) | | | SUNSHINE (HOURS) |
|---|---|------------------------------------|---------------|----------------------------------|-------------------------------------|--|--------------------|--|--|-----------------------------|---|--|-------------------------------------|--|
| Stations Station | period | amount | % of average | rain days wet days | теап тах. | mean min. mean daily | diff. from average | lowest min. date | days with air frost degree days > 4.4°C | degree days > 10.0°C | lowest "grass-min." date | days with ground frost mean 10cm at 0900h | mean 30cm at 0900h | total no. of hours % of average |
| Co. Cork Ballincurrig (Peafield) | 1-10 11-20 21-end month | 9.8 13.2 2.4 25.4 | - - - | 5 4 3 2 4 0 12 6 | 15.0 15.9 18.0 16.3 | 6.2 10.6 5.3 10.6 6.4 12.2 6.0 11.2 | - - - | 3.0 4 0.7 12 3.4 29 0.7 12 | 0 63 0 63 0 78 0 205 | 18 19 31 68 | 2.0 2 0.0 12 2.4 29 0.0 12 | 0 9.3 0 9.5 0 11.0 0 9.9 | 9.8 10.7 12.4 11.0 | 41.6 - 68.8 - 78.9 - 189.3 - |
| <i>Co. Donegal</i> Glenties | 1-10 11-20 21-end month | 76.7 16.3 2.9 95.9 | - - 118 | 7 7 5 4 3 1 15 12 | 15.5 14.9 18.5 16.3 | 7.4 11.5 6.1 10.5 6.8 12.7 6.8 11.6 | - - - 4.1 | 0.7 8 2.1 12 2.5 29 0.7 8 | 0 71 0 62 0 83 0 216 | 23 18 35 76 | -2.5 8 -1.4 12 -2.3 29 -2.5 8 | 1 - 2 - 2 - 5 - | - - - | |
| Co. Kerry Ardfert | 1-10 11-20 21-end month | 31.6 6.8 4.5 42.9 | - - - | 7 5 4 2 3 1 14 8 | 16.4 16.1 18.9 17.1 | 8.6 12.5 6.3 11.2 7.1 13.0 7.3 12.2 | - - - 3.8 | 5.3 3 3.4 17 4.2 23 3.4 17 | 0 81 0 68 0 86 0 234 | 29 21 37 87 | 3.9 4 1.9 17 2.1 23 1.9 17 | 0 - 0 - 0 - 0 - | - - - | 41.6 - 64.6 - 76.6 - 182.8 - |
| <i>Co. Monaghan</i> Carrickmacross | 1-10 11-20 21-end month | 11.7 10.4 0.0 22.1 | - - 42 | 6 4 4 2 0 0 10 6 | 16.3 14.7 16.5 15.8 | 6.1 11.2 4.7 9.7 5.9 11.2 5.6 10.7 | - - - | 1.4 8 0.6 12 1.4 29 0.6 12 | 0 70 0 56 0 70 0 195 | 25 14 23 61 | -2.5 8 -3.9 12 -2.2 29 -3.9 12 | 4 - 5 - 3 - 12 - | - - - | |
| Co. Waterford Dungarvan | 1-10 11-20 21-end month | 5.8 13.3 3.2 22.3 | - - - | 4 2 4 3 3 1 11 6 | 14.5 15.4 17.5 15.8 | 6.7 10.6 6.4 10.9 6.5 12.0 6.5 11.2 | - - 2.7 | 2.1 4 2.0 12 1.3 29 1.3 29 | 0 63 0 66 0 77 0 206 | 16 19 29 65 | 0.8 4 -0.3 12 -1.0 29 -1.0 29 | 0 - 1 - 1 - 2 - | 10.5 11.3 12.7 11.5 | 39.9 - 69.7 - 83.6 - 193.2 127 |
| Co. Wexford J.F.K. Park | 1-10 11-20 21-end month | 4.7 13.6 0.1 18.4 | - - 29 | 3 2 3 3 0 0 6 5 | 14.1 14.7 16.9 15.2 | 6.7 10.4 7.5 11.1 7.9 12.4 7.4 11.3 | - - 3.2 | 2.2 4 1.2 12 3.8 24 1.2 12 | 0 61 0 68 0 80 0 208 | 14 19 29 63 | 1.6 4 1.0 12 4.5 28 1.0 12 | 0 10.0 0 10.8 0 12.9 0 11.2 | 10.7 11.9 13.5 12.0 | 32.2 - 70.9 - 85.4 - 188.5 114 |
| <i>Co. Wicklow</i> Ashford | 1-10 11-20 21-end month | 10.8 6.3 0.5 17.6 | - - - | 6 3 4 3 2 0 12 6 | 15.9 14.4 15.5 15.3 | 5.8 10.9 4.8 9.6 5.6 10.6 5.4 10.4 | - - - | 1.2 3 0.8 12 1.0 28 0.8 12 | 0 67 0 54 0 64 0 185 | 22 13 19 54 | -4.7 4 -4.2 12 -3.8 28 -4.7 4 | 4 10.3 6 10.9 6 11.9 16 11.0 | - - - | 56.5 - 58.0 - 86.1 - 200.6 - |

MEASURED POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE

| Station | Period | P.E. (mm) Amount | Deficit | Soil Moisture (Accum'ltd Deficit | / |
|------------------|------------------------|---------------------|---------|----------------------------------|----|
| | 1-10 | 7.7 | - | 0 | 27 |
| Co. Kerry | 11-20 | 20.1 | - | 0 | 9 |
| Valentia Obs. | 21-end | 22.0 | 10 | 10 | - |
| | month | 49.8 | | | |
| | 1-10 | 3.2 | - | 0 | 6 |
| Co. Wexford | 11-20 | 15.3 | - | 0 | 2 |
| Johnstown Castle | 21-end month | n/a n/a | - | - | - |
| | | / 04 | | | |

MONTHLY EVAPORATION (MM) FROM CLASS A PAN

| County | Station | Monthly Rainfall (mm) | Monthly Evaporation <i>(mm)</i> |
|-----------|-----------------------|--------------------------|------------------------------------|
| Kerry | Valentia Observatory | 66.1 | 58.6 |
| Kerry | North Kerry Landfill | 74.2 | 55.0 |
| Mayo | Newport (Furnace) | 89.2 | 62.7 |
| Offaly | Derrygreenagh | 32.8 | 64.5 |
| Waterford | Dungarvan (Carriglea) | 22.3 | 58.6 |
| Wexford | J.F.K. Park | 18.4 | 74.3 |

| P.E. | (Penman) | GLO | BAL SOL | | ATION |
|---------------------|-----------|----------|-------------|------------|--------|
| Station | total(mm) | 1st-10th | 11th-20th | 21st-end | Total |
| Co.Carlow | | | | | |
| Carlow (Oak Park) * | 58 | 112.82 | 133.73 | 160.76 | 407.31 |
| Co.Cavan | | | | | |
| Ballyhaise* | 61 | 125.42 | 138.99 | 169.34 | 433.75 |
| Co.Clare | | | | | |
| Shannon Airport | 63 | global | solar radi | ation valu | es for |
| Co.Cork | | station | ns marked * | are provi | sional |
| Cork Airport | 57 | | | | |
| Roche's Point* | | 122.89 | 165.43 | 180.04 | 468.36 |
| Co.Donegal | | | | | |
| Malin Head | 62 | 119.01 | 136.62 | 190.27 | 445.90 |
| Co.Dublin | | | | | |
| Dublin Airport | 61 | 31.47 | 138.62 | 172.27 | 442.36 |
| Casement Aerodrome | 67 | | | | |
| Co Kerry | | | | | |
| Valentia Obs. | 62 | 94.40 | 134.75 | 189.84 | 418.99 |
| Co.Mayo | | | | | |
| Belmullet | 56 | 106.26 | 143.01 | 159.13 | 408.40 |
| Knock Airport | 58 | | | | |
| Co.Tipperary | | | | | |
| Gurteen* | 57 | 122.65 | n/a | 161.05 | n/a |
| Co.Westmeath | | | | | |
| Mullingar* | 60 | 119.82 | 148.05 | 162.56 | 430.43 |
| Co.Wexford | | | | | |
| Johnstown Castle* | 54 | 98.48 | 131.27 | 163.77 | 393.52 |

7

DIARY

Friday 1st: Rain continued in the western half of the country during the early hours, generally dying out around dawn. Staying dry for most of the day with overcast conditions and just a few sunny breaks. A band of heavy rain began to spread into the west in the evening. Winds; moderate, generally southerly. *Rainfall: nil to 27mm, heaviest at Claremorris, nil in the east*

Temperature: max. 11°C to 17°C, min. 5°C to 12°C, no ground frost Sunshine: nil to trace generally, >1 hour at Shannon Airport

Saturday 2nd: A band of rain, already through the west, continued eastwards during the early morning, heaviest falls in the west. Heavy showers developed during the morning and continued countrywide during the afternoon. Some of the showers were of hail and thunder. Good sunny spells everywhere. Winds; moderate, south to southwesterly in direction, becoming light by evening. *Rainfall:* <1 to 13mm. heaviest at Malin Head. <1mm at Belmullet

Temperature: max. 12°C to 15°C, min. 4°C to 7°C, ground temperatures down to -1°C at Mullingar **Sunshine:** 5 to 10 hours, sunniest at Belmullet, 5 hours at Valentia

Sunday 3rd: Showers overnight in the west and north, dry elsewhere with ground frost in places. Good sunny spells in all areas. Showers, mainly in the west, continued on and off during the day. Generally dry by evening. Winds; west to southwesterly, moderate with gusts in the north and northwest. **Rainfall:** trace to 3mm, heaviest at Valentia, trace at Knock Airport **Temperature:** max. 10°C to 12°C, min. 3°C to 6°C, ground temperatures down to -2°C at Carlow (Oak Park)

Sunshine: 7 to 10 hours, sunniest at Valentia, 7 hours at Casement Aerodrome

Monday 4th: Rain in the west overnight moved eastwards during the early hours, followed by showers. A further band of rain approached the west coast in the late afternoon and moved eastwards during the evening, bringing rain, heavy at times everywhere. Mild with sunny spells between the showers. Winds; moderate to strong and gusty, south to southwesterly in direction.

Rainfall: 2 to 22mm, heaviest at Claremorris, 2mm at Carlow (Oak Park) **Temperature:** max. 10°C to 16°C, min. 3°C to 9°C, ground temperatures down to -1°C at Johnstown Castle

Sunshine: nil to 5 hours, sunniest at Dublin Airport, nil at Cork Airport

Tuesday 5th: Cloudy with rain at first, heavy and persistent in places. Mild. Dry towards dawn, but soon more rain moved in over the west coast and gradually moved eastwards during the morning, becoming confined to the northern half of the country. Rain died out during the early afternoon. Another band of rain moved into the west by evening. Mostly cloudy with just a few hours of sunshine in the east. Winds; moderate to strong, southwesterly. **Rainfall:** 1 to 11mm, heaviest at Claremorris, 1mm at Roche's Point **Temperature:** max. 12°C to 18°C, min. 10°C to 13°C, no ground frost **Sunshine:** nil to 2 hours, sunniest in the east, nil in the south and west

Wednesday 6th: A band of rain which covered the centre of the country moved northwards overnight and cleared the north coast shortly after daybreak. Early morning mist cleared quickly. Bright and sunny during the afternoon, apart from the northwest. Light rain in the north overnight. Winds; southwesterly, light to moderate with gusts in the north and northwest. Rainfall: nil to 14mm, heaviest at Malin Head, nil at Gurteen Temperature: max. 11°C to 19°C, min. 7°C to 12°C, no ground frost Sunshine: nil to 6 hours, sunniest at Shannon Airport, nil at Belmullet

Thursday 7th: Patchy drizzle in the west ceased by morning to give a bright start to the day in most parts of the country. This good sunshine and mild weather continued into the afternoon with the best of the sunshine in the west. The dry weather continued into the evening with some cloud remaining in the southeast. Winds; light, southwesterly.

Rainfall: nil to <1mm Temperature: max. 11°C to 17°C, min. 4°C to 11°C, ground temperatures down to -2°C at Claremorris Sunshine: 2 to 10 hours, sunniest at Belmullet, 2 hours at Valentia

Friday 8th: Cool overnight with frost and fog in many areas, which burned off quickly during the morning. Most parts had prolonged spells of sunshine. Quite warm apart from northern and eastern coasts, where there were onshore breezes. Winds; light, southeasterly or variable in direction. **Rainfall:** *nil* to trace

Temperature: max. 11°C to 21°C, min. 0°C to 9°C, ground temperatures down to -3°C at Ballyhaise

Sunshine: 4 to 11 hours, sunniest at Dublin Airport, 4 hours at Shannon Airport

Saturday 9th: Dry overnight and throughout the day in most areas. Good sunshine in the east, cloudier further west. Warm by the afternoon, apart from south and east coasts, where onshore breezes held temperatures back. Winds; light southeasterly, increasing moderate in the early afternoon. **Rainfall:** *nil to trace*

Temperature: max. 13°C to 20°C, min. 4°C to 11°C, no ground frost Sunshine: trace to 7 hours, sunniest at Dublin Airport, trace at Valentia

Sunday 10th: Generally dry during the morning apart from some drizzle on western coasts. The afternoon was dry and warm with good sunny spells, mainly in the east. The evening and night saw some rain and drizzle along northwest coasts. Winds were light and variable in direction.

Rainfall: nil to trace generally, 3mm at Belmullet **Temperature:** max. 14°C to 20°C, min. 7°C to 11°C, no ground frost

Sunshine: 2 to 10 hours, sunniest in the east, 2 hours at Valentia

Monday 11th: Rain and drizzle in the west early in the period spread quickly eastwards, clearing the east coast by early morning. Showers followed on from the west, affecting most parts during the day. Good sunshine in all areas. The showers were mainly confined to the west coast by evening. Winds; moderate to strong and gusty, west to northwesterly in direction.

Rainfall: trace to 6mm, heaviest at Mullingar, trace at Cork Airport **Temperature:** max.11°C to 14°C, min. 2°C to 8°C, ground temperatures down to - 3°C at Carlow (Oak Park) **Sunshine:** 7 to 12 hours, sunniest at Cork Airport, 7 hours at Knock Airport

Tuesday 12th: Showery outbreaks of rain in the northwest overnight, mainly dry elsewhere. There were good sunny spells in many areas, however, the southwest remained dull with cloud thickening as a front approached the coast during the afternoon. Rain began to affect the southwest during the early evening and moved eastwards to give rain almost everywhere except eastern areas, which remained dry. Winds; westerly, moderate to strong and gusty.

Rainfall: nil to 7mm, heaviest at Belmullet nil at Dublin Airport **Temperature:** max. 10°C to 13°C, min. 1°C to 7°C, ground temperatures down to -5°C at Carlow (Oak Park) **Sunshine:** <1 to 8 hours, sunniest at Dublin Airport, <1hour at Valentia

Wednesday 13th: Rain, gradually spreading eastwards across the country with heavy bursts in parts of the midlands and west. The front which moved into the Irish Sea around dawn was followed by showers, some heavy at times. Showers continued throughout the afternoon in the west, while further east it was dry with some good sunny spells. Generally dry throughout by late evening. Winds; south to southwesterly, moderate to strong and gusty.

Rainfall: 2 to 18mm, heaviest at Valentia, 2mm at Malin Head Temperature: max. 10°C to 16°C, min 4°C to 9°C, no ground frost Sunshine: trace to 8 hours, sunniest at Casement Aerodrome, trace at Valentia

Thursday 14th: Mild and mostly dry overnight with patchy drizzle and some mist and fog in places. A cloudy morning with mist and some patches of drizzle lingering, mainly in the east of the country. It brightened up during the afternoon with some good spells of sunshine, the best of these in the southwest. Conditions remained mild and mostly dry into the evening and night with just a few spots of mist and drizzle in places. Winds; light, variable. *Rainfall: nil to 1mm, heaviest at Carlow (Oak Park)*

Temperature: max. 12°C to 14°C, min 6°C to 9°C, no ground frost **Sunshine:** nil to 7 hours, sunniest at Valentia, nil at Dublin Airport

Friday 15th: Mostly dry overnight with broken cloud and some drizzle and patchy fog along the east coast. The drizzle and fog cleared in the east during the morning and sunny spells developed. Some drizzle developed in the west but precipitation amounts were low. There were some good spells of sunshine also, with the best of these in the south and east. Cloud in the western half of the country moved eastwards during the evening, bringing some light drizzle with it into the night. Winds were light, southerly in direction.

Rainfall: nil to 1mm, heaviest at Valentia

Temperature: max. 13°C to 15°C, min. 3°C to 9°C, ground temperatures down to -2°C at Gurteen

Sunshine: 1 to 8 hours, sunniest at Casement Aerodrome, 1 hour at Belmullet

DIARY

Saturday 16th: Misty overnight with some patchy drizzle or light rain in places. These conditions continued into the morning but brightened up shortly after daybreak. Some sunny spells developed during the afternoon with the best of these in the west. It remained cloudier in the east with some drizzle present. Generally dry overnight with fog in places Winds; light and variable.

Rainfall: nil to 1mm, heaviest at Gurteen

Temperature: max. 11°C to 15°C, min. 4°C to 9°C, ground temperatures down to -2° at Gurteen

Sunshine: 2 to 10 hours, sunniest at Cork Airport, 2 hours at Belmullet

Sunday 17th: It was dry and calm overnight with dense fog patches developing in places. The fog cleared during the morning in most places and sunny spells developed. It was a bright afternoon with good spells of sunshine, mainly in the west. It continued dry into the evening and night with patches of mist and fog returning to parts of Leinster and Munster. Winds; light, variable. **Rainfall:** nil to trace

Temperature: max. 10°C to 17°C, min 0°C to 7°C, ground temperatures down to -4°C at Casement Aerodrome

Sunshine: 5 to 12 hours, sunniest at Belmullet, 5 hours at Casement Aerodrome

Monday 18th: Dry overnight with light winds, with mist and fog also. The morning was mostly dry and sunny after the mist and fog cleared, but a bit cloudier on the east coast. Good sunshine in all areas during the afternoon. The night was dry with clear spells and mist returned to most places also. Winds were light and variable in direction.

Rainfall: nil

Temperature: max. 14°C to 18°C, min. 1°C to 8°C, ground temperatures down to -2°C at Mullingar

Sunshine: 6 to 13 hours, sunniest at Knock Airport, 6 hours at Dublin Airport

Tuesday 19th: Near calm conditions overnight with widespread mist and fog, and a slight ground frost in places. Misty and foggy during the early morning, however it brightened up by mid morning with good sunny spells developing in most areas, cloudier in southern parts. The afternoon was sunny with some mist also about. Dry overnight. Winds; light, variable. **Rainfall:** nll

Temperature: max. 15°C to 20°C, min. 2°C to 11°C, ground temperatures down to -2°C at Casement Aerodrome

Sunshine: 4 to 12 hours, sunniest at Casement Aerodrome, 4 hours at Valentia

Wednesday 20th: Some rain along the west coast overnight, otherwise dry and clear with a widespread mist. Some rain again along southwestern coasts during the day, dry with good sunshine elsewhere. The evening and night again saw some rain in western parts, while remaining dry elsewhere with a widespread mist or haze. Winds; light and variable in direction. *Rainfall: nil to trace generally, 4mm at Belmullet*

Temperature: max. 13°C to 21°C, min. 2°C to 11°C, ground temperatures down to -2°C at Casement Aerodrome

Sunshine: trace to 12 hours, sunniest at Dublin Airport, trace at Valentia

Thursday 21st: Rain in places to start, mainly in western areas. Mist and haze, particularly in the east. Any rain generally died out by dawn and there were good long sunny spells everywhere. It was very warm everywhere. Winds; light easterly, with haze, particularly along the east coast.

Rainfall: nil to trace generally, <1mm in the northwest **Temperature:** max. 15°C to 23°C, min. 5°C to 10°C, no ground frost **Sunshine:** 7 to 12 hours, sunniest at Dublin Airport, 7 hours at Knock Airport

Friday 22nd: Overnight showers affected many parts of the country but were well scattered. A cloudy start to the day over much of the country with showers continuing, some thundery in places. It continued cloudy into the afternoon with some thundery showers still affecting parts of the midlands and west. Broken cloud meant that sunny spells were intermittent. Generally dry by evening. Winds were light, southerly in direction.

Rainfall: nil to 2mm, heaviest at Valentia Temperature: max. 13°C to 22°C, min. 6°C to 11°C, no ground frost Sunshine: 2 to 8 hours, sunniest in the east, 2 hours at Belmullet

Saturday 23rd: It was mild and misty overnight with some rain and drizzle in the north and east. During the morning it brightened up with only a few showers in places. There were good spells of sunshine countrywide during the day. It remained dry and bright into the evening, and into the night it became cooler with some mist developing. Winds; light, variable. **Rainfall:** nil to trace generally, 2mm at Johnstown Castle **Temperature:** max. 13°C to 16°C, min. 3°C to 8°C, ground temperatures down to -1°C at Mullingar

Sunshine: 8 to 13 hours, sunniest at Belmullet, 8 hours at Dublin Airport

Sunday 24th: Light rain and drizzle spread into the northwest and west during the early hours of the morning. The rain and drizzle continued moving eastwards during the morning but became progressively lighter and fizzled out altogether by late morning. The rest of the day was dry countrywide. Prolonged sunshine in the western half of the country, cloudier further east. Winds; light to moderate, west to northwesterly.

Rainfall: nil to 1mm, heaviest at Belmullet, nil in the east

Temperature: max. 12°C to 17°C, min. 3°C to 9°C, ground temperatures down to -2°C at Carlow (Oak Park)

Sunshine: 1 to 7 hours, sunniest at Valentia, 1 hour at Dublin Airport

Monday 25th: Dry overnight with mist in places and light winds. The morning was dry with some good sunny spells in parts of the country, cloudier along the east and southeast coast. The afternoon saw some rain along southwest coastal areas, but elsewhere dry with sunny spells. The evening and night again saw some rain in the extreme southwest, while dry with clear spells elsewhere. Winds; light, west to northwesterly.

Rainfall: nil to trace generally, 2mm at Valentia

Temperature: max. 12 °C to 15 °C, min. 6 °C to 9 °C, ground temperatures below zero at Malin Head

Sunshine: trace to 8 hours, sunniest at Belmullet, trace at Casement Aerodrome

Tuesday 26th: Rain spread from the southwest overnight, easing as it did. Some mist in parts. A few showers during the morning. The afternoon was mainly dry, with some sunny spells, the best of these in the midlands and west. Some mist in places after dark. Winds; light, easterly or variable. **Rainfall:** nil to 1mm generally, 7mm at Valentia

Temperature: max. 11°C to 17°C, min. 5°C to 9°C, ground temperatures down to -1°C at Malin Head

Sunshine: 1 to 9 hours, sunniest at Knock Airport, 1 hour at Dublin Airport

Wednesday 27th: Cloudy along the west coast overnight with some rain in parts of Connacht. The morning was dry and sunny away from northwestern areas. The afternoon continued dry with more in the way of cloud over the midlands and west and good sunshine along the east coast. Dry during the evening with mist forming in places. Winds; light and variable in direction.

Rainfall: nil to <1mm generally, 4mm at Claremorris

Temperature: max. 14°C to 19°C, min. 2°C to 11°C, ground temperatures down to -2°C at Dublin Airport

Sunshine: trace to 12 hours, sunniest in the east, trace at Belmullet

Thursday 28th: A dry, warm and sunny day for the most part. Cloudy conditions along the west coast, uninterrupted sunshine elsewhere. Mist and fog in the west after dark, clear spells elsewhere. Winds; light, easterly. *Rainfall: nil*

Temperature: max. 14°C to 19°C, min. 0°C to 9°C, ground temperatures down to -4°C at Dublin Airport

Sunshine: 3 to 14 hours, sunniest at Dublin Airport, 3 hours at Belmullet

Friday 29th: A beautiful sunny day everywhere, warmest in the west, cooler in the east and on south coasts due to freshening easterly breezes. Clear spells after dark and some mist or shallow fog in places. Winds; light to moderate, east to southeasterly in direction.

Rainfall: nil Temperature: max. 14°C to 20°C, min. 0°C to 7°C, ground temperatures down to -4°C at Carlow (Oak Park) Sunshine: 11 to 14 hours, sunniest at Belmullet, 11 hours at Dublin Airport

Saturday 30th: Dry overnight with clear spells in most areas. It became cloudy over the southern part of the country during the morning and isolated showers developed there. Good sunny spells in many places during the afternoon. The evening and night were mostly dry, apart from some showers in the south of the country. Winds; light to moderate, easterly.

Rainfall: nil to trace

Temperature: max. 15°C to 21°C, min. 6°C to 10°C, no ground frost Sunshine: 7 to 12 hours, sunniest at Shannon Airport, 7 hours at Dublin Airport

RAINFALL

April 2011

Above normal in the west; driest in the east

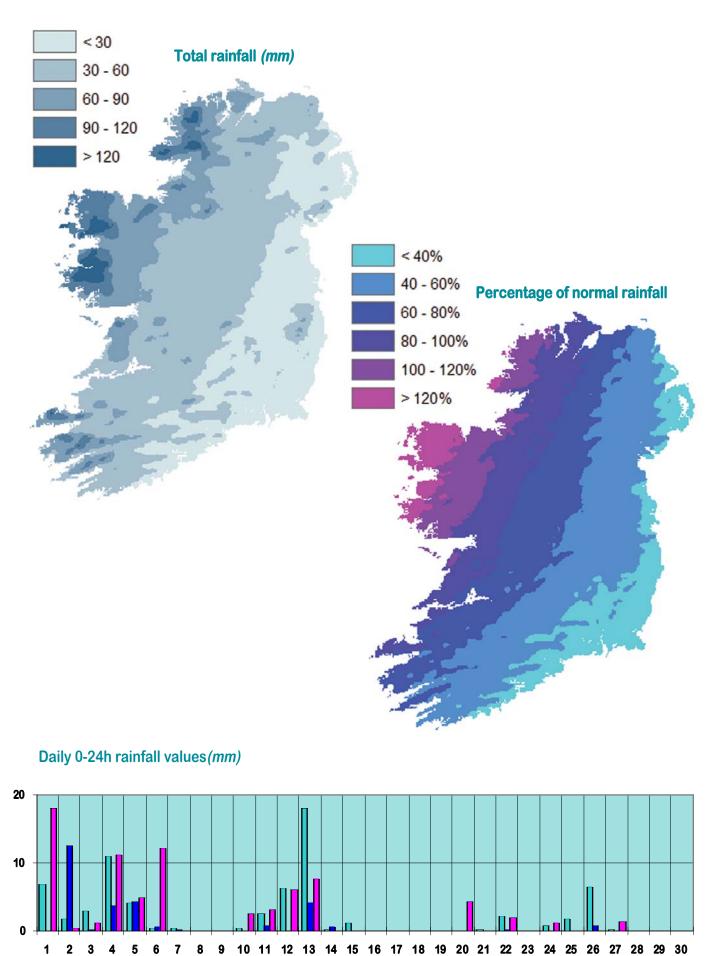
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Majority of April's rainfall totals were below average for the time of year, except for parts of the west and northwest, which were well above average. Total rainfall amounts and percentage of normal values reflected this; the lowest rainfall total for April was recorded in the east at Dublin (Merrion Square) with 9.9mm and the highest total amount of 190mm, was recorded in the west at Delphi lodge II, Co. Mayo. Percentage of normal values ranged between 20% of average at Dublin (Merrion Square) and 129% at Belmullet.

Almost all of April's rainfall was recorded during the first half of the month with all stations recording their highest daily falls during this period. Maam Valley recorded the highest daily total of the month with 43.3mm during heavy showers on the 12th. There was a total of between three and 16 wetdays *(days with 1mm or more of rainfall)* recorded during April, with the majority of locations recording below the average number of wetdays of 10 to 14, especially in the east.

| County/ Station Total % of Amount Most in 1961-90 (mm) Number of aday/date Number of Raindays Weddays (aday/date C. CARLOW CARLOW (DAK PARK) 19.4 400 4.1 12 10 7 CO. CARLOW CO. CANAM 19.4 400 4.1 12 10 7 CO. CARLOW CO. CANAM 19.4 400 4.1 12 12 7 CO. CARLOW CO. CARLOW 19.1 12 14 6 7 1 14 6 CO. CARLOW 19.1 92 18.1 5 20 13 1 SIMINON ALREPORT 21.8 41 6.7 12 13 6 PEMOY (MOREPARK) 24.4 48 12.6 12 15 12 15 CO. CONTR 19.7 56 12.1 12 13 7 5 SILLINCORTRA (FERFTED) 25.5 39 6.7 1 14 9 O. ONDERAL 124.1 1 14 12 | NAINIALE | | | | | 10 | | |
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| DUBLIN (PHOENIX PARK) 23.4 45 10.7 2 9 5 DUBLIN AIRPORT 28.4 12.6 2 12 5 CASEMENT AERORNOME 30.0 59 11.1 2 10 6 DUBLIN (MERION SQUARE) 9 20 4.9 4 8 3 CO. GALWAY 0 72.7 109 21.5 4 16 11 MAM VALLEY 166.6 43.3 12 17 15 BALLYGAR 42.9 17.0 1 14 8 CO. KERY 10.5 12 18 11 MOUNTRUSSELL 44.3 10.5 12 18 11 CO. MAYO 11 190.1 39.1 1 16 16 CO. MAYO 24.5 42 9.1 4 9 6 CO. MAYO 24.5 42 9.1 4 9 6 CO. MAYO 22.1 37 8. | | 17.1 | 00 | 17.1 | 1 | 1.5 | 0 | |
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RAINFALL



Dublin Airport

Belmullet

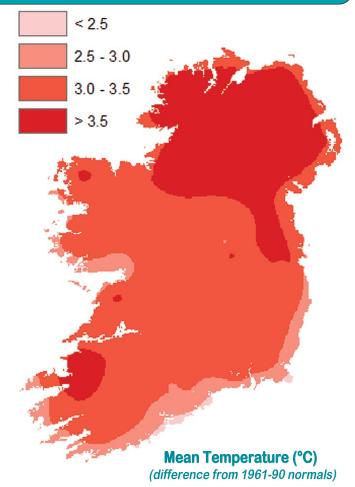
Valentia Observatory

11

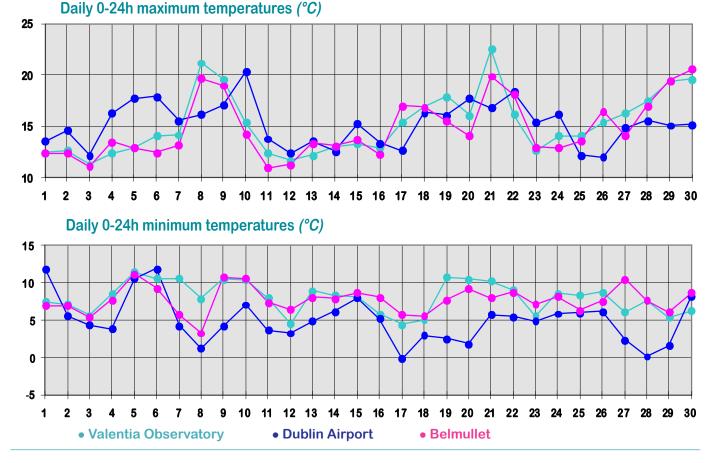
Warmest April on record at most stations

Periods of high pressure dominated the weather during the month leading to mean temperatures being above average by around 3°C in most places. Almost all stations recorded April as the warmest on record with the exception of some stations in the east. Mean monthly air temperatures varied between 10.4°C at Knock Airport, Dublin Airport and Ashford (Cronykeery), Co. Wicklow and 12.2°C at Dublin (Merrion Square) and Ardfert(Lischane), Co. Kerry, the highest mean air temperature at these sites since 1966 and 1981, respectively.

Almost all daily maximum air temperatures were recorded during the period of 20th to the 22nd with the highest daily maximum of 23.5°C, measured at Ardfert (Liscahane), Co Kerry on the 21st, its second highest April maximum since 1981. The month's lowest air temperature of -0.7°C was measured in Fermoy (Moorepark), Co. Cork on the 12th, while the lowest grass minimum temperature for April of -4.7°C was recorded at three different locations on various dates during the month. The number of ground frosts recorded across the country were between zero and 16, slightly below



average in areas for April with the fewest amount of ground frosts recorded in the west and in coastal areas.



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TEMPERATURE

| April 2011 | | | | | | | | | | | | |
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| | | | | | °C | , | | | | | | |
| County/ | | | Mean/ | deviation | | | | | | | | |
| • | Mean | Mean | | 961-90 | Highe | est | Lowes | st | Lowe | st | Days | with frost |
| Station | max. | min. | ave | erage | max./c | Jate | min./da | ate | grass mir | n./date | air | ground |
| CO. CIPLOW | | | | | | | 1 | | | | | |
| CO. CARLOW | 16.2 | 6.0 | 11 1 | 3.0 | 21.6 | 21 | 1 0 | 20 | -4.7 | 10 | 0 | 8 |
| CARLOW (OAK PARK) CO. CAVAN | 10.2 | 6.0 | 11.1 | 3.0 | 21.0 | 21 | 1.0 | 29 | -4./ | 12 | 0 | 8 |
| BALLYHAISE | 15.7 | 6.1 | 10.9 | | 20.1 | 22 | 0.8 | 8 | -3.0 | 8 | 0 | 6 |
| CAVAN (LORETO COLLEGE) | 15.9 | 6.3 | 11.1 | | 20.1 | | 1.2 | 8 | -1.8 | | 0 | 6 |
| CO. CLARE | 10.0 | 0.5 | | | 20.1 | 22 | 1.2 | 0 | 1.0 | 29 | | 0 |
| SHANNON AIRPORT | 16.3 | 7.9 | 12.1 | 3.2 | 22.7 | 21 | 2.9 | 17 | -2.1 | 17 | 0 | 5 |
| CARRON | 15.4 | 6.9 | 11.2 | 3.5 | 20.9 | 21 | 2.2 | 17 | -3.4 | | 0 | 9 |
| CO. CORK | 1011 | 0.15 | | 0.0 | 2019 | | 2.2 | - / | 0.11 | - / | Ŭ | 2 |
| ROCHE'S POINT | 13.8 | 8.1 | 11.0 | 2.4 | 17.4 | 21 | 3.9 | 12 | -1.6 | 12 | 0 | 1 |
| FERMOY (MOOREPARK) | 15.9 | 6.0 | 11.0 | 3.0 | 21.0 | 20 | -0.7 | 12 | -4.4 | 12 | 1 | 8 |
| CORK AIRPORT | 14.3 | 7.2 | 10.8 | 2.9 | 18.2 | 20 | 2.4 | 12 | -1.4 | 12 | 0 | 3 |
| SHERKIN ISLAND | 14.6 | 8.4 | 11.5 | 2.7 | 18.0 | 20 | 5.0 | 17 | 3.2 | 23 | 0 | 0 |
| BALLINCURRIG (PEAFIELD) | 16.3 | 6.0 | 11.2 | | 21.4 | 20 | 0.7 | 12 | 0.0 | 12 | 0 | 0 |
| CO. DONEGAL | | | | | | | 1 | | | | | |
| MALIN HEAD | 14.1 | 7.7 | 10.9 | 3.1 | 20.8 | 22 | 5.5 | 4 | -0.9 | 26 | 0 | 2 |
| GLENTIES HATCHERY | 16.3 | 6.8 | 11.6 | 4.1 | 22.1 | 22 | 0.7 | 8 | -2.5 | 8 | 0 | 5 |
| BALLYSHANNON (CATHLEEN'S FALL) | 16.1 | 6.9 | 11.5 | 3.6 | 21.1 | 22 | 3.8 | 8 | | | 0 | |
| CO. DUBLIN | | | | | | | 1 | | | | | |
| DUBLIN (PHOENIX PARK) | 16.3 | 6.6 | 11.5 | 3.6 | 21.1 | 10 | 1.8 | 17 | -1.6 | 4 | 0 | 6 |
| DUBLIN AIRPORT | 15.3 | 5.5 | 10.4 | | 20.3 | 10 | -0.1 | 17 | -3.8 | 28 | 1 | 10 |
| CASEMENT AERODROME | 15.7 | 6.6 | 11.2 | 3.5 | 21.8 | 22 | 0.0 | 17 | -4.0 | 17 | 0 | 8 |
| DUBLIN (MERRION SQUARE) | 15.4 | 9.0 | 12.2 | 3.3 | 19.6 | 6 | 6.1 | 12 | | | 0 | |
| CO. GALWAY | | | | | | | 1 | | | | | |
| GALWAY (UNIV.COLL.) | 16.6 | 6.1 | 11.4 | 2.7 | 22.7 | 21 | 0.2 | 17 | -1.6 | 12 | 0 | 5 |
| MAAM VALLEY | 15.9 | 7.5 | 11.7 | | 21.1 | 21 | 3.5 | 8 | 1.5 | 17 | 0 | 0 |
| BALLYGAR | 16.6 | 6.0 | 11.3 | | 21.5 | 21 | 1.0 | 12 | -2.9 | 12 | 0 | 7 |
| CO. KERRY | | | | | | | 1 | | | | | |
| VALENTIA OBSERVATORY | 15.1 | 8.4 | 11.8 | 2.8 | 22.5 | 21 | 4.5 | 17 | -2.1 | 12 | 0 | 5 |
| ARDFERT (LISCAHANE) | 17.1 | 7.3 | 12.2 | 3.8 | 23.5 | 21 | 3.4 | 17 | 1.9 | 17 | 0 | 0 |
| CO. LIMERICK | | | | | | | 1 | | | | | |
| MOUNTRUSSELL | 15.6 | 7.0 | 11.3 | | 21.3 | 21 | 4.5 | 12 | 0.1 | 18 | 0 | 0 |
| CO. MAYO | | | | | | | | _ | | | | |
| BELMULLET | 14.8 | 8.3 | 11.6 | 3.2 | 20.6 | | 3.3 | 8 | 0.2 | 8 | 0 | 0 |
| STRAIDE | 16.2 | 6.4 | 11.3 | 3.2 | 20.8 | | 0.4 | | -4.7 | | 0 | 11 |
| KNOCK AIRPORT | 14.5 | 6.3 | 10.4 | | 19.7 | | 2.3 | | -2.4 | | 0 | 2 |
| DELPHI LODGE II | 15.6 | 8.3 | 12.0 | | 21.6 | 21 | 1.2 | 8 | 0.0 | 8 | 0 | 0 |
| CO. MEATH | 16.0 | | 11.0 | 2 5 | 01 0 | 1.0 | 0.0 | 1 🗆 | 0.4 | 1 🗆 | | - |
| WARRENSTOWN | 16.2 | 6.2 | 11.2 | 3.5 | 21.2 | 10 | 0.0 | 1/ | -2.4 | 1/ | 0 | 7 |
| CO. MONAGHAN CARRICKMACROSS (DUNOGE) | 15.8 | 5.6 | 10.7 | | 19.6 | 10 | 0.6 | 10 | -3.9 | 10 | 0 | 10 |
| CARRICKMACROSS (DUNOGE) CO. OFFALY | 12.8 | 5.6 | 10./ | | тд.р | TO | 0.6 | ⊥Z | -3.9 | тZ | 0 | 12 |
| DERRYGREENAGH | 16.6 | 5.3 | 11.0 | 3.6 | 21.1 | 21 | 0.9 | 17 | -3.5 | 17 | 0 | 8 |
| CO. SLIGO | тр.р | 5.3 | 1 11.0 | 3.0 | ∠⊥.⊥ | | 0.9 | ⊥/ | -3.5 | 1 / | | 0 |
| ARDTARMON | 16.5 | 7.7 | 12.1 | | 21.4 | 21 | 3.8 | 8 | -2.0 | 0 | 0 | 3 |
| CO. TIPPERARY | 10.0 | '.' | 12.1 | | 41.4 | | ٥.٥ | 0 | -2.0 | 0 | | J |
| GURTEEN | 15.7 | 5.9 | 10.8 | | 20.9 | 21 | 0.0 | 29 | -3.5 | 29 | 0 | 10 |
| GORILEN FETHARD (PARSONSHILL) | 16.0 | 6.6 | 11.3 | | 20.9 | | 1.3 | | -3.5 | | 0 | 10 |
| CO. WATERFORD | ±0.0 | 0.0 | L | | | | 1.0 | 14 | | ± 4 | | - |
| DUNGARVAN (CARRIGLEA) | 15.8 | 6.5 | 11.2 | 2.7 | 19.6 | 30 | 1.3 | 29 | -1.0 | 29 | 0 | 2 |
| CO. WESTMEATH | 10.0 | 0.5 | 11.2 | 2.1 | 19.0 | 50 | 1.5 | 29 | 1.0 | 29 | | 2 |
| MULLINGAR | 16.0 | 5.3 | 10.7 | | 20.6 | 22 | 0.4 | 8 | -2.9 | 17 | 0 | 10 |
| CO. WEXFORD | _0.0 | | | | 20.0 | | | Ŭ | | - ' | | |
| JOHNSTOWN CASTLE | 14.0 | 7.5 | 10.8 | 2.9 | 17.3 | 10 | 2.0 | 12 | -1.0 | 4 | 0 | 1 |
| JOHN F. KENNEDY PARK | 15.2 | 7.4 | 11.3 | 3.1 | 21.0 | | 1.2 | | 1.0 | | 0 | 0 |
| | | | | J.1 | | | | | | | - | 6 |
| CLONROCHE (KNOXTOWN) | 15.6 | 5.7 | 10.7 | | 20.5 | 20 | 05 | 4 | -2.6 | 4 | 0 | 6 |
| CLONROCHE (KNOXTOWN) CO. WICKLOW | 15.6 | 5.7 | 10.7 | | 20.5 | 20 | 0.5 | 4 | -2.6 | 4 | 0 | 0 |

SUNSHINE

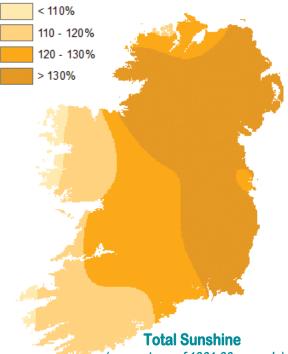
| County/ Station | | | | f Most in ible a day/da | |
|--------------------------------|------|-----|----|----------------------------|-------|
| | | | | | |
| CO. CARLOW | | | | | |
| CAVAN (LORETO COLLEGE) | 5.96 | | | 11.8 | 23 |
| CO. CLARE | | | | | |
| SHANNON AIRPORT | 6.06 | 124 | 44 | 13.4 | 29 |
| CO. CORK | | | | | |
| CORK AIRPORT | 6.09 | 117 | 44 | 13.8 | 29 |
| SHERKIN ISLAND | 6.14 | 104 | 44 | 13.1 | 28 |
| BALLINCURRIG (PEAFIELD) | 6.31 | | | 13.3 | 28 29 |
| CO. DONEGAL | | | | | |
| BALLYSHANNON (CATHLEEN'S FALL) | 6.49 | 138 | 46 | 12.6 | 29 |
| CO. DUBLIN | | | | | |
| DUBLIN AIRPORT | 6.72 | 129 | 48 | 13.9 | 28 |
| CASEMENT AERODROME | 6.95 | 142 | 50 | 13.8 | 28 |
| CO. GALWAY | | | | | |
| GALWAY (UNIV.COLL.) | 6.95 | 141 | 50 | 13.7 | 29 |
| CO. KERRY | | | | | |
| VALENTIA OBSERVATORY | 5.47 | 109 | 40 | 12.5 | 18 |
| ARDFERT (LISCAHANE) | 6.09 | | 44 | 12.4 | 18 23 |
| CO. MAYO | | | | | |
| BELMULLET | 5.64 | 108 | 40 | 14.1 | 29 |
| STRAIDE | 6.37 | | | 13.1 | 29 |
| KNOCK AIRPORT | 6.00 | | | 13.4 | 29 |
| CO. WATERFORD | | | | | |
| DUNGARVAN (CARRIGLEA) | 6.44 | 126 | 46 | 13.3 | 28 |
| CO. WEXFORD | | | | | |
| JOHN F. KENNEDY PARK | 6.28 | 128 | 45 | 12.8 | 28 29 |
| CLONROCHE (KNOXTOWN) | 6.55 | | | 12.7 | 29 |
| CO. WICKLOW | | | | | |
| ASHFORD (CRONYKEERY) | 6.69 | | 49 | 13.5 | 28 |
| | | | | | |
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14

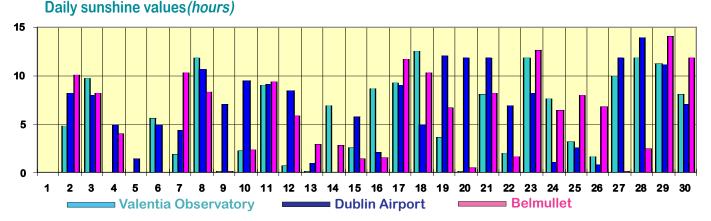
Sunny everywhere, especially in east

Sunshine totals were above normal everywhere and it was an especially sunny month in the east and northeast. Totals ranged from 164 hours at Valentia Observatory to 209 hours at Galway (University College) with percentage of normal values between 104% at Sherkin Island, Co. Cork and 142% at Casement Aerodrome.

The sunniest period of the month was between the 28th and 29th, when daily values of more than 13 hours were widely recorded; the month's highest daily value of 14.1 hours was measured at Belmullet on the 29th, equalling its highest daily value for April on record. Global solar radiation totals were near normal everywhere, ranging from 99% of normal at Valentia Observatory to 115% at Dublin Airport.



(percentage of 1961-90 normals)



WORLD WEATHER

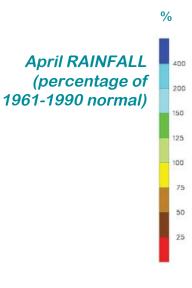
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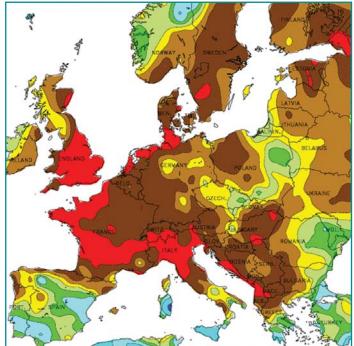
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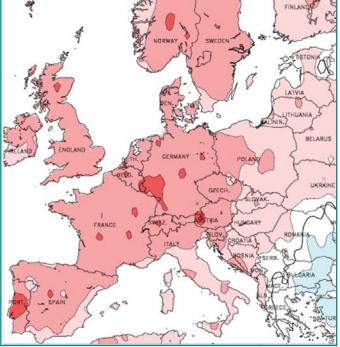
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April MEAN TEMPERATURE (difference from 1961-1990 normal)

> Data supplied by NOAA Climate Prediction Centre, US Department of Commerce

On April 8th, a freak sandstorm swept across the town of Rostock in northern Germany. The sand and dust swept across a busy four-lane road near the Baltic Sea, causing an 80 car pileup. Twenty of the vehicles caught on fire after a truck carrying flammable material spilled. Eight people were reported killed and another 41 injured. The dust storm was driven by extremely dry conditions across the country and strong winds blowing over recently ploughed fields.

Torrential rains triggered landslides and floods across southern Brazil on April 22nd, leaving at least eleven people dead and two missing. The hardest hit region was the Rio Grande Del Sol state. Several regions of the state were evacuated due to fears of additional landslides. It was reported that about 100,000 residents were without power. A strong cyclone, dubbed a 'Nor'wester', hit Bangladesh on April 4th and 5th, killing 13 people and injuring 121. Media outlets reported that eight districts in the northern region of the country were hard hit with flooding rains, resulting in mudslides leveling hundreds of houses, and leaving thousands homeless. Hail also accompanied the storm, causing property damage and damage to a vast tract of corn, wheat, mango, and lychee orchards.



months across northern Australia have taken their toll on wildlife populations. The abnormal rainfall prompted a mass migration of native rats from the Northern Territory and western Queensland into the interior desert of the continent. The rats were seen for the first time in over 25 years in the town of Alice Springs.

Extremely dry conditions plagued the island nation of Cuba for several months, culminating in an extreme drought by mid April. Media sources claim that the drought was the worst to impact the nation in nearly half a century. Reservoirs in some regions were down to 20 percent of their normal level, prompting government officials to take emergency measures.

Global weather highlights of the month

FEATURE

16

CELEBRATING 25 YEARS OF THE WEATHER BULLETIN

