

# MONTHLY WEATHER BULLETIN

NO. 349  
JUNE 2015



Lenticular clouds were reported all over the eastern part of the country on the 30th, the warmest day of the month. In the photo above, lenticular clouds were spotted in Glasnevin, Co Dublin near the climate station in the Botanic Gardens, where the month's highest temperature of 26.1°C was reported on the same day. These clouds form when air moves over mountains, cooling sufficiently for condensation to take place. Lenticular clouds are different from other clouds as they are stationary, continually reforming over the same location. (Picture courtesy Ruth Coughlan)

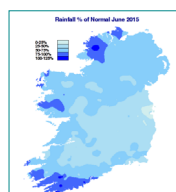
## WARM, SUNNY AND EXTREMELY DRY IN PARTS OF DUBLIN

Rainfall totals were mainly below average with percentage of Long-Term Average (LTA) values lowest mainly in the eastern half of the country with values of less than 25% reported at some stations in Dublin, Meath and Wicklow. Low monthly rainfall totals were attributed to a 'dry

spell' (a period of 15 or more days to none of which is credited 1.0 mm or more) of varying lengths between the 3rd and 26th with a few isolated stations in Kildare, Wicklow, Wexford and Tipperary reporting absolute drought conditions (a period of 15 or more consecutive days to none of which is credited 0.2 mm or more)



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for the same dates. Dublin (Phoenix Park) reported the month's lowest percentage of LTA and monthly rainfall total with 16% and 10.9 mm, its driest June since 1942. Other Dublin stations at Dublin Airport and Casement Aerodrome reported 14.1mm (21% of LTA) and 17.4mm (28% of LTA) respectively, their driest June since the mid-1990's. The month's highest percentage of LTA was at a gauge in the Cumberagh Mountains, Co Kerry with 118% of LTA and 264.2 mm of rain. The month's wettest days were the 1st, 5th and 27th with the wettest day reported at Gernapeka, Co Cork on the 1st with 52.9 mm.

Nearly all monthly mean air temperatures were below their LTA. Parts of the West and North had differences from LTA of over  $-1.0^{\circ}\text{C}$ , with the largest difference of  $-1.4^{\circ}\text{C}$  reported at Markree, Co Sligo (mean temperature of  $12.2^{\circ}\text{C}$ ). The month's lowest mean air temperature was  $11.7^{\circ}\text{C}$  recorded at both Malin Head, Co Donegal ( $-0.8^{\circ}\text{C}$  from LTA) and Knock Airport, Co Mayo ( $-0.5^{\circ}\text{C}$  from LTA) while the month's highest mean air temperature was  $14.9^{\circ}\text{C}$  ( $0.3^{\circ}\text{C}$  from LTA) recorded at Dublin (Glasnevin). The majority of the month's highest maxima were recorded on the final day of June with the month's highest temperature of  $26.1^{\circ}\text{C}$  reported at Dublin (Glasnevin), its highest June temperature since 2000. Malin Head, Co Donegal reported a maximum of  $24.7^{\circ}\text{C}$  on the 30th, its highest for June since 1978. Most monthly lowest air and grass minima were on the

8th and 9th, with Dublin Airport reporting the month's lowest air temperature with  $0.7^{\circ}\text{C}$  (on the 9th), its lowest for June since the station opened 73 years ago. The month's lowest grass minimum of  $-3.4^{\circ}\text{C}$  was reported at both Cloosh, Co Galway (on the 7th) and at Casement Aerodrome, Co Dublin (on the 9th), the lowest grass minimum reported at Casement Aerodrome during June in 50 years.

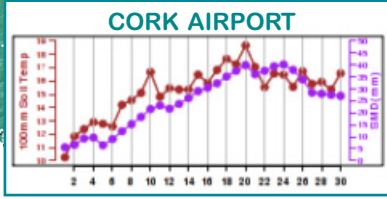
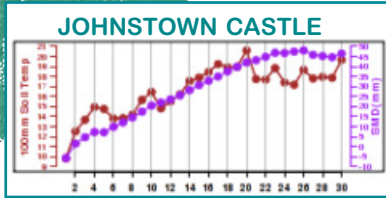
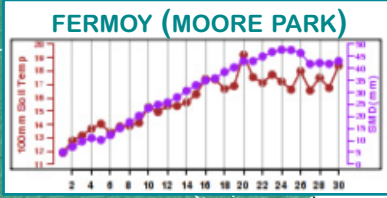
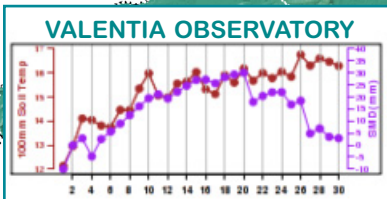
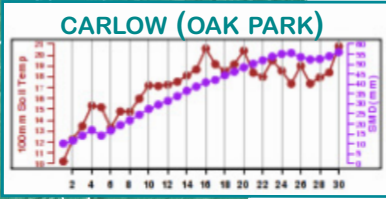
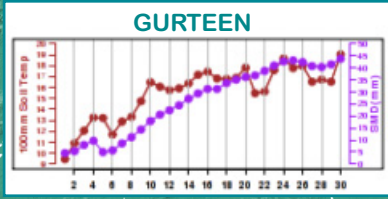
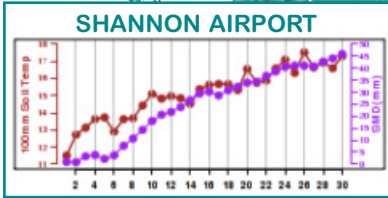
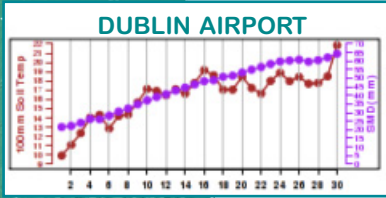
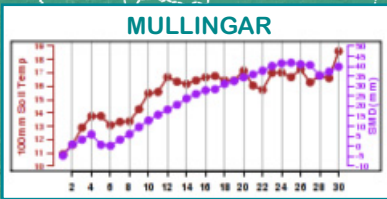
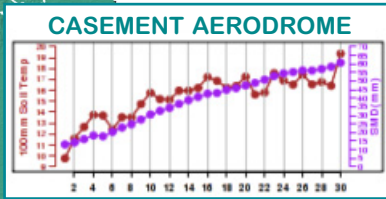
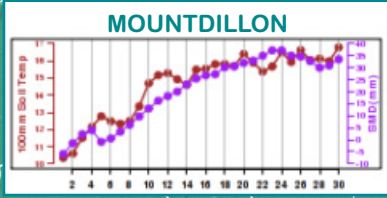
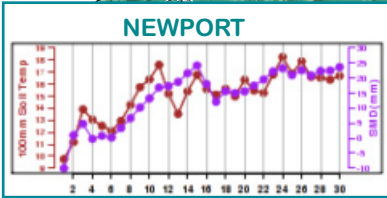
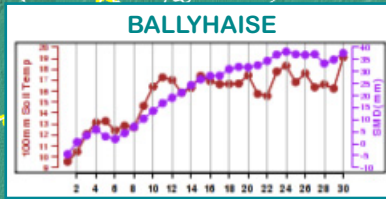
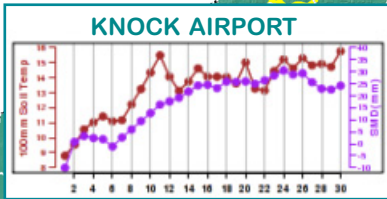
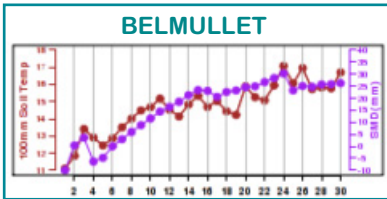
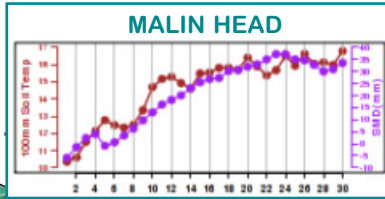
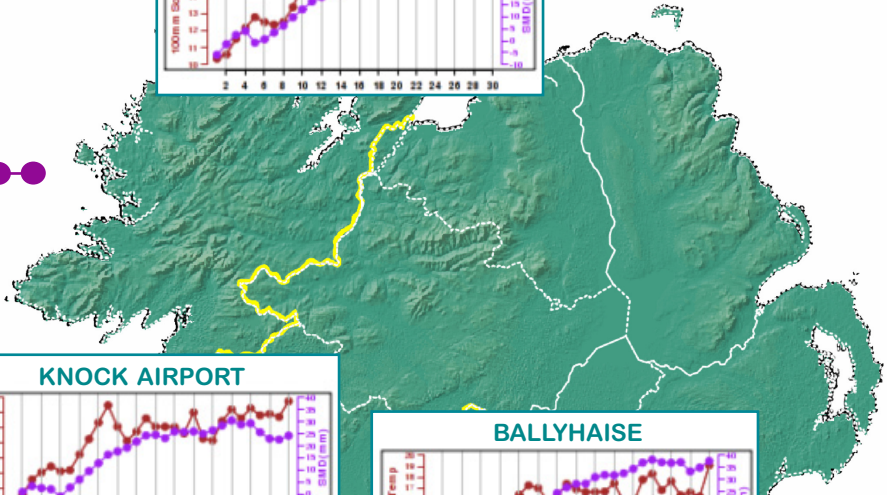
Monthly sunshine totals ranged from 163.7 hours (86% of LTA) at Sherkin Island to 207.0 hours (122% of LTA) at Dublin (Glasnevin). The most sunshine in one day was 15.7 hours reported at both Dublin Airport and Casement Aerodrome on the 10th.

**Wind and Elements:** Monthly mean wind speeds ranged from 6.1 knots ( $11.3\text{ km/h}$ ) at Fermoy (Moore Park), Co Cork to 13.2 knots ( $24.4\text{ km/h}$ ) at Malin Head. Two-thirds of stations reported their highest monthly mean wind speeds for seven to 13 years. Gale winds were reported on the 1st, 2nd, 5th and 6th, with severe gale winds reported along parts of the Atlantic coast on the 1st and 2nd. The month's highest 10-minute mean wind speed of 47 knots ( $87\text{ km/h}$ ) and highest gust of 62 knots ( $115\text{ km/h}$ ) were reported on the 1st at Malin Head, both the highest for June since 1975. Seventeen days had fog across the country with Cloosh, Co Galway reporting the highest number of days with 10.

*Clear, cloud free skies were captured above a field in Smithstown, Co Meath on the 9th. Nearby Dublin stations reported sunshine of between 13.9 hours (Glasnevin) and 15.2 hours (Dublin Airport). The next day, the month's sunniest day was reported at both Casement Aerodrome and Dublin Airport with 15.7 hours. (Picture courtesy of Donal Black)*

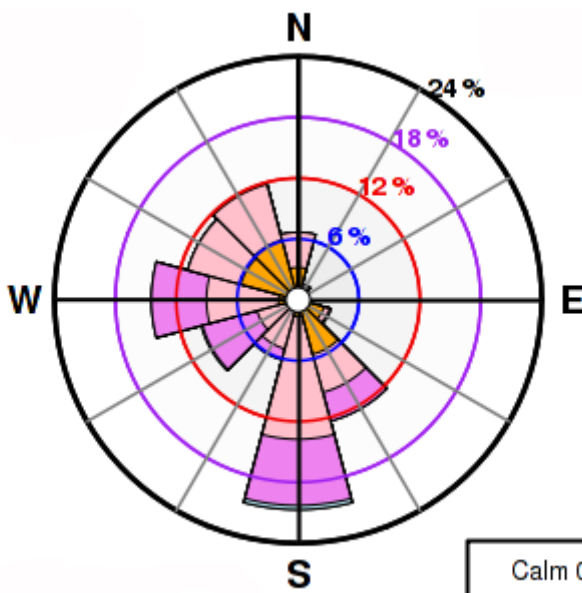


# DAILY SOIL MOISTURE DEFICITS & SOIL TEMPERATURES



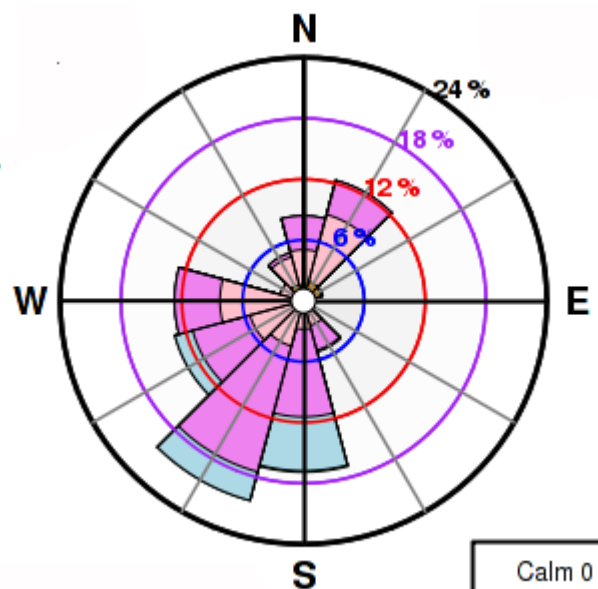
COUNTY / STATION	WIND (knots)										ELEMENTS (no.of days)					
	MEAN SPEED	MAX. 10-MIN. DIR.	MAX. 10-MIN. SPEED	MEAN DATE/HOUR	MAX. DIR.	MAX. SPEED	GUST DATE/TIME	DAYS WITH		HOURS WITH		SNOW	SNOW LYING	HAIL	THUNDER	FOG
								GALES	GUST > 34KNOTS	GUST > 34KNOTS	GUST > 34KNOTS					
<b>CO CARLOW</b> OAK PARK	7.8	180°	24	1/14	170°	39	1/1318	0	2	4						
<b>CO CAVAN</b> BALLYHAISE	6.5	170°	25	1/13	170°	38	1/1406	0	2	6						
<b>CO CLARE</b> SHANNON AIRPORT	9.3	240°	30	2/14	250°	42	1/1427	0	4	20	0	0	0	0	0	
<b>CO CORK</b> FERMOY (MOORE PARK)	6.1	200°	21	1/13	180°	37	1/1257	0	1	3						
SHERKIN ISLAND	10.4	200°	39	1/12	230°	48	1/1400	1	3	14						
ROCHE'S POINT	10.6	190°	37	1/13	200°	47	1/1420	1	3	17						
CORK AIRPORT	9.1	200°	29	1/14	200°	44	1/1312	0	2	8	0	0	0	0	7	
<b>CO DONEGAL</b> MALIN HEAD	13.2	250°	47	1/22	250°	62	1/2243	3	4	54						
FINNER	10.3	230°	31	1/19	230°	45	1/1912	0	5	38						
<b>CO DUBLIN</b> DUBLIN AIRPORT	10.5	190°	34	1/16	190°	51	1/1548	1	3	21	0	0	0	0	0	
CASEMENT AERODROME	9.5	190°	36	1/15	180°	52	1/1458	1	4	26	0	0	0	0	0	
<b>CO GALWAY</b> MACE HEAD	12.8	200°	40	1/12	200°	51	1/1225	3	5	46						
ATHENRY	7.5	240°	22	5/17	230°	38	5/1745	0	3	8						
		230°	22	6/ 2												
<b>CO KERRY</b> VALENTIA OBSERVATORY	8.5	190°	31	1/12	190°	45	1/1210	0	2	7						
<b>CO MAYO</b> CLAREMORRIS	8.2	250°	26	1/14	220°	40	5/1456	0	2	13						
BELMULLET	12.1	170°	42	1/11	180°	54	1/1127	2	6	47						
NEWPORT	9.6	190°	33	1/12	200°	46	1/1244	0	3	26						
KNOCK AIRPORT	9.1	260°	34	1/16	260°	46	1/1553	1	4	26	0				4	
<b>CO MEATH</b> DUNSANY (GRANGE)	8.0	240°	27	2/13	180°	41	1/1435	0	3	12						
<b>CO ROSCOMMON</b> MOUNTDILLON	7.1	190°	22	1/14	180°	35	1/1341	0	3	4						
					260°	35	2/1320									
<b>CO TIPPERARY</b> GURTEEN (AG COLLEGE)	8.1	190°	24	1/14	190°	39	1/1426	0	2	5						
		240°	24	2/13												
<b>CO WESTMEATH</b> MULLINGAR	6.1	170°	22	1/14	230°	37	2/1049	0	2	3						
<b>CO WEXFORD</b> JOHNSTOWN CASTLE	8.8	190°	25	1/15	190°	40	1/1531	0	2	7						

CARLOW (OAK PARK)



Calm 0 %

BELMULLET

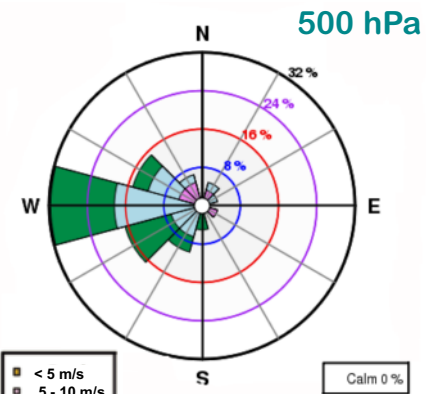
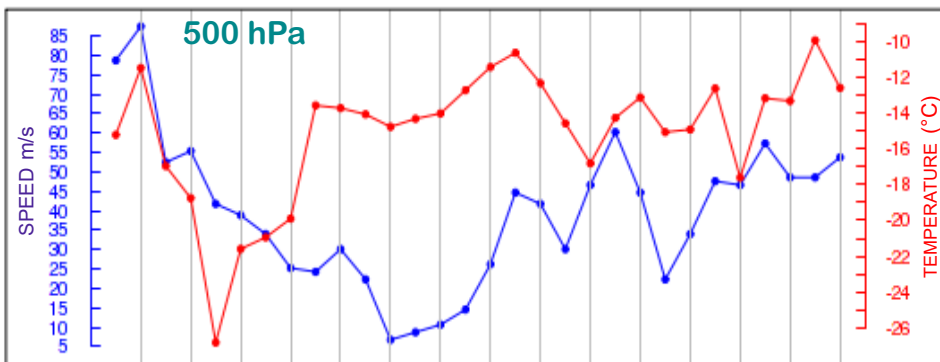
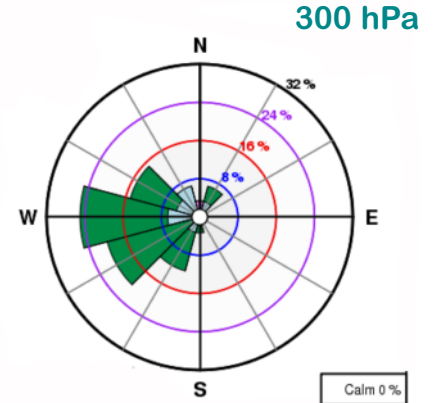
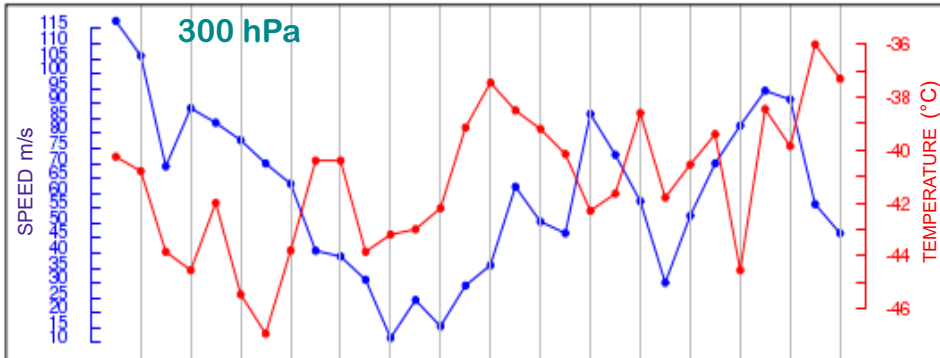


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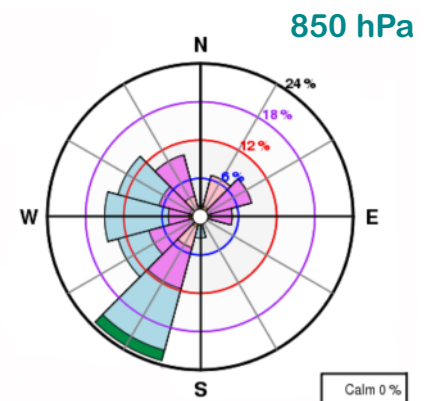
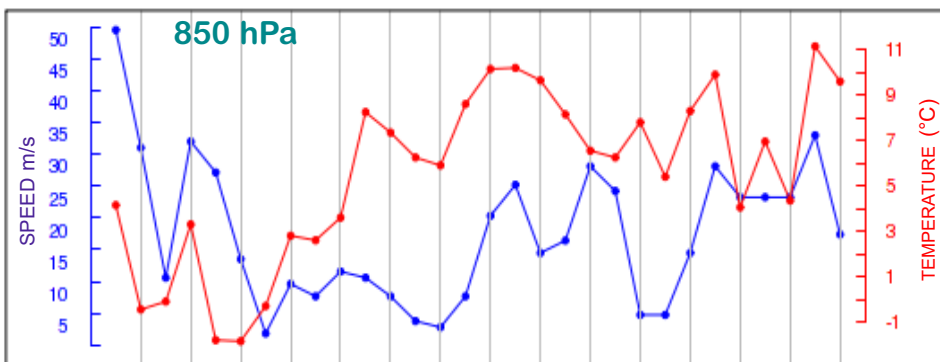
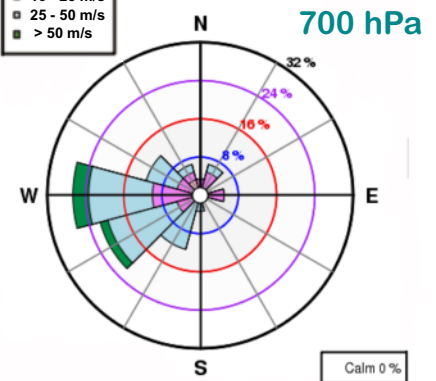
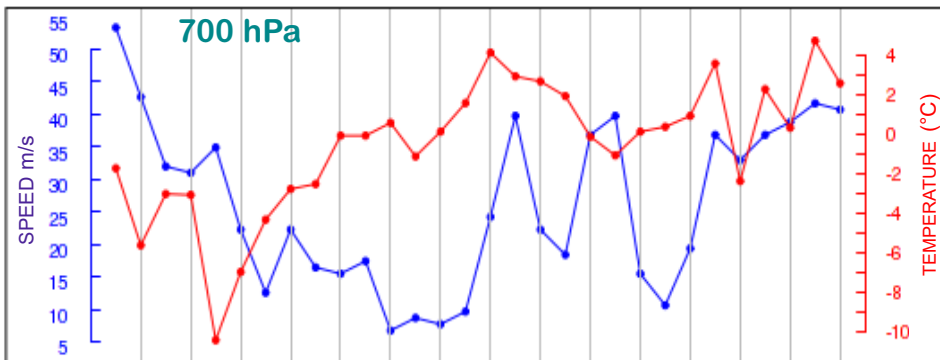
PERCENTAGE FREQUENCY OF WIND DIRECTION

Upper Atmosphere wind and temperature readings are made at Valentia Observatory twice a day by a radiosonde (a balloon with instruments attached). Shown below are daily average wind speeds and temperatures at defined pressure levels, 850, 700, 500 and 300 hPa, corresponding approximately to heights of 1.5, 3, 6 and 10 km. Monthly wind roses are also shown for each pressure level.

UPPER AIR WIND SPEED AND TEMPERATURE JUNE 2015



- < 5 m/s
- 5 - 10 m/s
- 10 - 25 m/s
- 25 - 50 m/s
- > 50 m/s



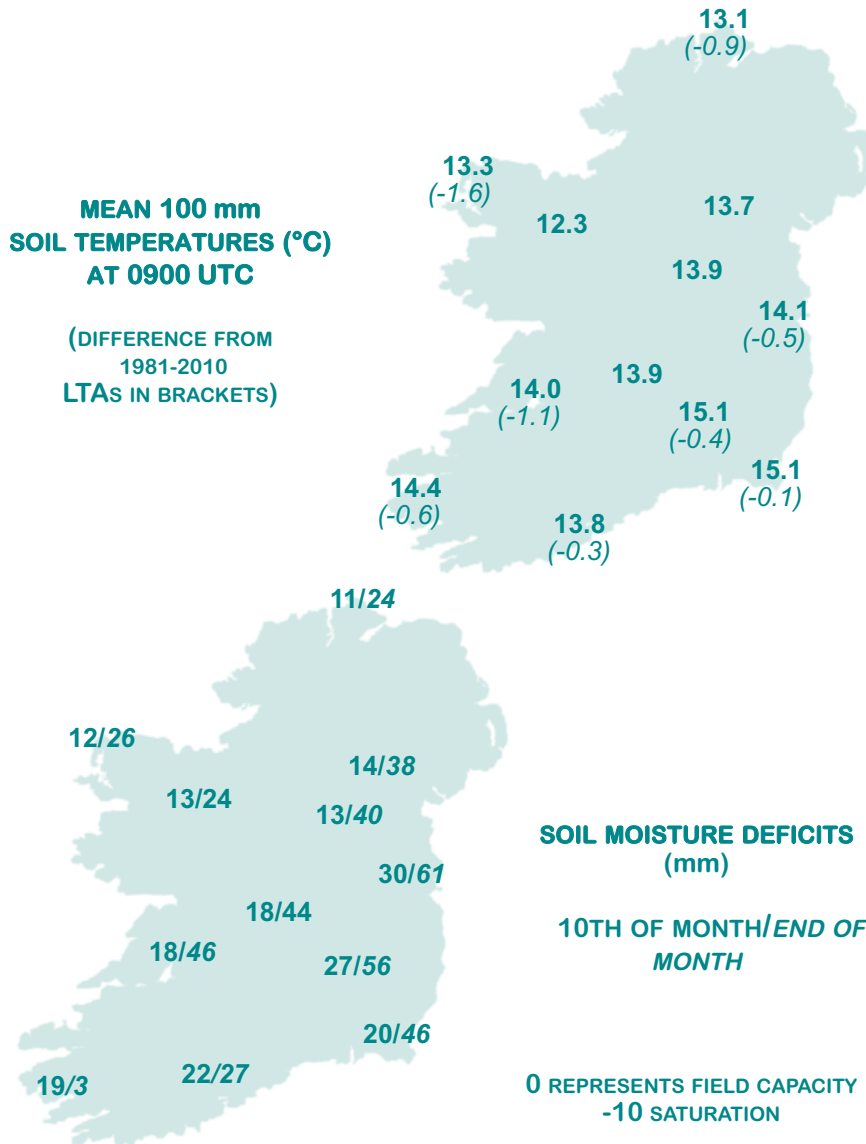
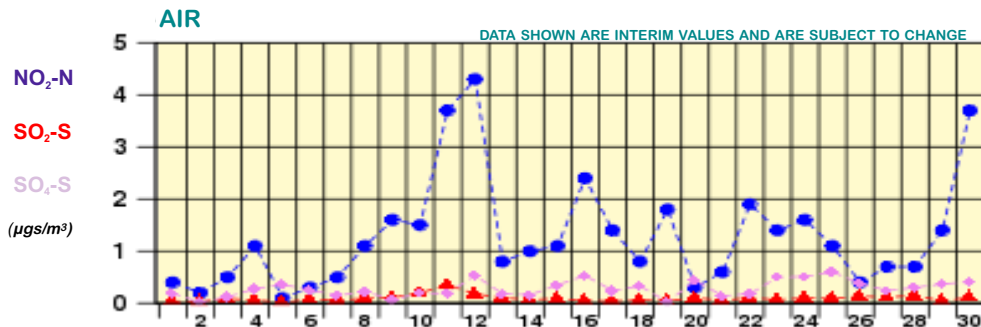
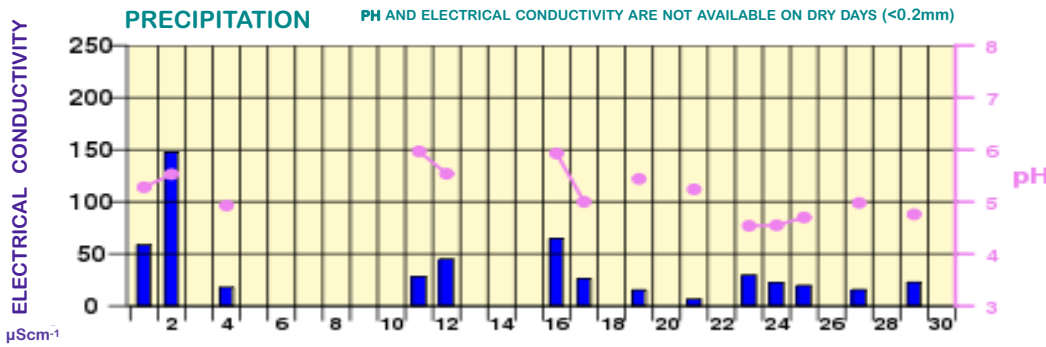
DAY OF MONTH

CHEMICAL ANALYSIS OF PRECIPITATION AND AIR SAMPLES AT VALENTIA OBSERVATORY

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.

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

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



MEAN SOIL TEMPERATURES (°C) AT 0900 UTC

COUNTY/STATION	100 mm	200 mm	300 mm
<b>CO CARLOW</b>			
CARLOW (OAK PARK)	15.1	14.7	14.8
<b>CO. CAVAN</b>			
BALLYHAISE	13.7	13.5	13.8
<b>CO CLARE</b>			
SHANNON AIRPORT	14.0	14.3	14.2
CARRON	13.3		13.5
<b>CO CORK</b>			
ROCHE'S POINT	14.7	14.3	14.5
FERMOY (MOORE PARK)	14.6	14.3	14.6
CORK AIRPORT	13.8	13.8	14.0
SHERKIN ISLAND	14.5	13.9	14.2
BALINCURRIG (PEAFIELD)	14.5	13.9	14.5
<b>CO DONEGAL</b>			
MALIN HEAD	13.1	12.4	12.3
<b>CO DUBLIN</b>			
PHOENIX PARK	16.7	16.6	15.7
DUBLIN AIRPORT	14.3	14.2	14.4
CASEMENT AERODROME	14.1	13.7	13.8
<b>CO KERRY</b>			
VALENTIA OBSERVATORY	14.4	14.5	14.4
<b>CO KILKENNY</b>			
THOMASTOWN (MT JULIET)	---not available---		
<b>CO LIMERICK</b>			
MOUNT RUSSELL	---not available---		
<b>CO MAYO</b>			
BELMULLET	13.3	13.5	14.0
STRAIDE	14.3		
KNOCK AIRPORT	12.3	12.4	12.1
<b>CO MEATH</b>			
WARRENSTOWN	13.7	14.2	15.4
DUNSANY (GRANGE)	13.8	13.9	14.2
<b>CO TIPPERARY</b>			
GURTEEN (AG COLLEGE)	13.9	13.8	13.9
FETHARD (PARSONSHILL)	13.4	14.2	
<b>CO WATERFORD</b>			
DUNGARVAN (CARRIGLEA)		15.3	15.3
<b>CO WESTMEATH</b>			
MULLINGAR	13.9	14.1	14.4
<b>CO. WEXFORD</b>			
JOHNSTOWN CASTLE	15.1	14.5	14.6
JFK PARK	15.5	15.3	16.1
<b>CO WICKLOW</b>			
ASHFORD (CRONYKEERY)	15.9	15.2	15.0



**Monday 1st:** Some heavy showers on the west coast became more widespread. Rain in all parts through the morning and for the rest of the day with some isolated showers in the West towards nightfall. Winds were fresh to strong, southwesterly.

**Rainfall:** 1.2 mm at Inishbofin to 52.9 mm at Gernapeka  
**Temperature:** Lowest max. 9.7°C at Knock Apt, highest max. 15.3°C at Dungarvan (Carriglea). Lowest min. 1.2°C at Clonroche (Knoxtown), highest min. 7.8°C at Sherkin Island  
**Sunshine:** Nil at numerous locations to 4.9 hours at Belmullet

**Tuesday 2nd:** A showery, breezy day overall with good sunny spells. The showers were mostly light but there were a number of heavier bursts. Temperatures were still a little below normal. Winds were fresh to strong, southwesterly.

**Rainfall:** Nil at numerous locations to 9.6 mm at Falcarragh (Lough Altan)  
**Temperature:** Lowest max. 10.8°C at Finner, Ballyshannon (Cathleen's Fall), highest max. 17.4°C at Waterford (Tycor). Lowest min. 4.3°C at Ballymore, highest min. 9.4°C at Waterford (Tycor)  
**Sunshine:** 3.4 hours at Ballyshannon (Cathleen's Fall) to 8.6 hours at Dungarvan (Carriglea)

**Wednesday 3rd:** Mainly dry with sunny spells. Any showers in north Ulster died out in the morning. A few well scattered showers developed in the afternoon. Winds were moderate, southwesterly.

**Rainfall:** Nil at numerous locations to 7.1 mm at Swanlinbar, Moycullen (Loughwell)  
**Temperature:** Lowest max. 13.2°C at Malin Head, highest max. 17.2°C at Newport. Lowest min. 3.6°C at Horseleap, highest min. 9.2°C at Mace Head  
**Sunshine:** 4.7 hours at Knock Apt to 12.3 hours at Newport (Furnace)

**Thursday 4th:** It was a mainly dry start to the day but cloudy in many areas. Some sunny spells broke through making it feel warm particularly on the east coast. A combination of light rain, drizzle and showers affected western coastal areas from early morning and continued there on and off for much of the day spreading further south by late afternoon and then began to move eastwards later in the evening. Winds were moderate, southeasterly.

**Rainfall:** 0.1 mm at Tullaroan (Ballybeagh) to 13.1 mm at Moyard (Shanbolard)  
**Temperature:** Lowest max. 12.0°C at Belderrig, highest max. 18.9°C at Dunmoe (Craigs Lane). Lowest min. 5.0°C at Ballinamore, highest min. 10.9°C at Valentia Obs  
**Sunshine:** Nil at numerous locations to 10.1 hours at Clonroche (Knoxtown)

**Friday 5th:** Rain spread eastwards overnight, with some heavy falls in places. The rain continued through early morning in the East, but cleared away by mid-morning, and was followed by showers and good sunny periods. Winds were fresh to strong, southwesterly.

**Rainfall:** Nil at numerous locations to 25.2 mm at Falcarragh (Lough Altan)  
**Temperature:** Lowest max. 12.3°C at Delphi Lodge, highest max. 17.8°C at Dun Laoghaire. Lowest min. 4.8°C at Mallow (Hazelwood), highest min. 11.0°C at Cahore (Kilmichael Hse)  
**Sunshine:** 6.0 hours at Belmullet to 13.9 hours at Sherkin Island

**Saturday 6th:** It was windy overnight with a mix of showers and longer spells of rain. The rain died out during the early morning but the showers continued to push eastwards across the country, before dying out during the late afternoon. The evening saw the showers almost gone. Winds were fresh to strong, southwesterly.

**Rainfall:** Nil at numerous locations to 7.1 mm at Fintown (Kingarow)  
**Temperature:** Lowest max. 12.1°C at Malin Head, highest max. 17.3°C at Waterford (Tycor). Lowest min. 4.4°C at Mt Russell, highest min. 9.5°C at Newport (Furnace)  
**Sunshine:** 5.2 hours at Newport (Furnace) to 13.5 hours at Sherkin Island

**Sunday 7th:** Cold overnight but the day was mainly dry and bright with good sunny spells and some cloudy periods. Some light isolated showers mainly in the Northwest. Winds were light to moderate, southwest to northwest.

**Rainfall:** Nil at numerous locations to 2.0 mm at Tralee U.D.C.  
**Temperature:** Lowest max. 12.6°C at Belderrig, highest max. 18.0°C at Kilkenny (Greenshill), Ballincurragh (Peafield). Lowest min. 2.1°C at Durrrow, highest min. 9.3°C at Mace Head  
**Sunshine:** 5.9 hours at Straide to 14.0 hours at Shannon Apt

**Monday 8th:** Another cold night with some frost in the Midlands and East, but the day was mainly dry and bright with good sunny spells and only a few cloudy periods. Winds were light to moderate, north to northwest

**Rainfall:** Nil at numerous locations to 1.6 mm at Tralee U.D.C.  
**Temperature:** Lowest max. 12.1°C at Malin Head, highest max. 19.4°C at Glengarriff (Innacullin). Lowest min. 1.0°C at Straide, highest min. 9.2°C at Dun Laoghaire  
**Sunshine:** 2.0 hours at Clonroche (Knoxtown) to 15.4 hours at Valentia Obs

**Tuesday 9th:** Warm in some places, especially in the West. Cooler temperatures in the East and North with onshore breezes. Temperatures falling in the evening again. Winds were light, northerly.

**Rainfall:** Nil at numerous locations to 1.0 mm at Virginia  
**Temperature:** Lowest max. 12.3°C at Belderrig, highest max. 19.5°C at Killarney (Muckross Hse), Cavan (Drumconnick), Springfield Castle. Lowest min. 0.7°C at Dublin Apt, highest min. 8.4°C at Belderrig  
**Sunshine:** 9.4 hours at Belmullet to 15.4 hours at Shannon Apt

**Wednesday 10th:** Cold overnight with some mist in rural areas but improving and becoming warmer through the day with good spells of sunshine. A little cloudier in the north of the country and cooler on some northern and eastern coasts with an onshore breeze. Winds were light, northerly.

**Rainfall:** Nil at numerous locations to 1.6 mm at Limerick Junction (Solohead)  
**Temperature:** Lowest max. 11.7°C at Malin Head, highest max. 21.5°C at Glengarriff (Innacullin). Lowest min. 2.6°C at Dublin Apt, highest min. 9.5°C at Belderrig  
**Sunshine:** 10.5 hours at Newport (Furnace) to 15.7 hours at Dublin Apt, Casement

**Thursday 11th:** Cool and dry overnight. There was some light rain in the South and Southeast during the afternoon and evening but it was otherwise dry. Warm inland by afternoon, but considerably cooler near coasts. Winds were light, northerly.

**Rainfall:** Nil at numerous locations to 7.3 mm at Bandon (The Gully)  
**Temperature:** Lowest max. 12.2°C at Malin Head, highest max. 21.4°C at Ballyshannon (Cathleen's Fall). Lowest min. 1.6°C at Clonroche (Knoxtown), highest min. 10.4°C at Dublin (Glasnevin)  
**Sunshine:** Nil at Sherkin Island to 14.1 hours at Ballyshannon (Cathleen's Fall)

**Friday 12th:** Light rain in the South pushed up through Munster and Connacht overnight and during the morning. The rain continued northwards through the afternoon but stalled in north Connacht and mid Ulster by evening. Warm inland by afternoon, but cooler near coasts. Winds were light, northerly.

**Rainfall:** Nil at numerous locations to 7.4 mm at Tralee (Lisaboula)  
**Temperature:** Lowest max. 11.6°C at Belderrig, highest max. 21.6°C at Ardee (Bohamamoe). Lowest min. 4.4°C at Glenties Hatchery, highest min. 13.6°C at Valentia Obs  
**Sunshine:** Nil at numerous locations to 2.0 hours at Dublin Apt

**Saturday 13th:** Dry overnight with some haze in paces. The day was dry, with some good sunny breaks. The evening and night continued dry with bright/clear periods. Winds were light to moderate, northerly.

**Rainfall:** Nil at numerous locations to 1.3 mm at Roundstone  
**Temperature:** Lowest max. 11.7°C at Knock Apt, highest max. 19.7°C at Derrygreenagh. Lowest min. 5.0°C at Ballycroy (Knockmoyleen), highest min. 12.9°C at Sherkin Island  
**Sunshine:** 0.1 hours at Newport (Furnace) to 8.2 hours at Valentia Obs

**Sunday 14th:** Dry overnight. Bright and sunny across the country during the morning and afternoon with mostly clear skies across the country. Some cloud at times in the South. Temperatures reached 19°C in the Southeast, but it was cooler in the North. Winds were light to moderate, northerly.

**Rainfall:** Nil at numerous locations to 0.4 mm at Roundstone  
**Temperature:** Lowest max. 11.9°C at Malin Head, highest max. 19.0°C at Cahore (Kilmichael Hse). Lowest min. 2.5°C at Castleconnell, highest min. 10.4°C at Sherkin Island.  
**Sunshine:** 4.2 hours at Sherkin Island to 14.3 hours at Arklow (Ballyrichard Hse)

**Monday 15th:** Some mist and fog overnight in the North and West. Some light patchy rain in the early morning. Otherwise a dry day in most parts, with cloud clearing through the morning to give good sunny spells. Winds were light, southerly.

**Rainfall:** Nil at numerous locations to 4.6 mm at Roundstone  
**Temperature:** Lowest max. 14.4°C at Sherkin Island, highest max. 21.6°C at Springfield Castle. Lowest min. 3.5°C at Clonroche (Knoxtown), highest min. 11.0°C at Ballycroy (Knockmoyleen)  
**Sunshine:** 2.2 hours at Belmullet to 9.2 hours at JFK Park

**Tuesday 16th:** An overall cloudy day, with some good sunny spells during the morning and afternoon, best sunshine in the South and East, with mainly moderate southerly breezes. Some mist and drizzle in the North and West through the day, with more persistent rain in parts by late evening. Winds were light to moderate, southwesterly.

**Rainfall:** Nil at numerous locations to 16.0 mm at Kilar (Cronasillagh)  
**Temperature:** Lowest max. 13.8°C at Cloosh, highest max. 22.6°C at Phoenix Park. Lowest min. 7.8°C at Craggaunowen, highest min. 13.6°C at Dublin (Glasnevin)  
**Sunshine:** Nil at numerous locations to 6.7 hours at JFK Park



**Wednesday 17th:** Some rain and drizzle in the early hours in the Northwest, before it spread southwards to most parts by dawn, clearing in the afternoon in the East but lingering for longer in the Southwest. Cloudy overall but some short sunny spells mainly in the East. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 8.3 mm at Ballynahill (Glenbawn)*  
*Temperature: Lowest max. 13.4°C at Malin Head, highest max. 22.4°C at Waterford (Tycor).*  
*Lowest min. 10.0°C at Ballycroy (Knockmoyleen), highest min. 16.8°C at Dublin (Glasnevin)*  
*Sunshine: Nil at Ballyshannon (Cathleen's Fall) to 12.0 hours at Sherkin Island*

**Thursday 18th:** A mainly dry day overall, fresher than recently, with warmer conditions in the Southeast and East, cooler in the West. Some isolated showers mainly in the North and West early in the day. Plenty of sunshine in most areas particularly in the afternoon. Winds were moderate to fresh, northwesterly.

*Rainfall: Nil at numerous locations to 4.6 mm at Roundstone*  
*Temperature: Lowest max. 13.0°C at Finner, highest max. 21.6°C at Waterford (Tycor).*  
*Lowest min. 5.1°C at Athenry, highest min. 14.0°C at Craggaunowen*  
*Sunshine: 0.4 hours at Ballyshannon (Cathleen's Fall) to 13.4 hours at Dungarvan (Carriglea)*

**Friday 19th:** Some fog and drizzle overnight on northwestern coasts before a mainly cloudy and humid day with patchy light drizzle and rain spreading slowly eastwards. Some hazy sunshine and clear spells, best in the South and Southeast with highest temperatures here also. Mild overnight. Winds were moderate, northwesterly.

*Rainfall: Nil at numerous locations to 13.5 mm at Fintown (Kingarow)*  
*Temperature: Lowest max. 13.4°C at Malin Head, highest max. 23.9°C at Glengarriff (Ilnacullin).*  
*Lowest min. 5.8°C at Straide, highest min. 12.8°C at Craggaunowen*  
*Sunshine: Nil at numerous locations to 9.8 hours at JFK Park*

**Saturday 20th:** Mild and humid overnight with some patches of mist, drizzle and fog, continuing patchy rain or drizzle in the morning clearing from the West first, to showers and fresher breezier conditions, as the front passed. Some good spells of sunshine in the afternoon and evening, best in the South and on eastern coasts. Winds were light to moderate, southwesterly.

*Rainfall: Nil at numerous locations to 11.5 mm at Derryhenny (Doochary)*  
*Temperature: Lowest max. 14.8°C at Ballycroy (Knockmoyleen), highest max. 23.7°C at Piltown (Kildalton Agr Col).*  
*Lowest min. 8.4°C at Ballymore, highest min. 15.3°C at Cloyne (Lisanley)*  
*Sunshine: 0.9 hours at Sherkin Island to 8.6 hours at Cork Apt*

**Sunday 21st:** Some patchy rain and showers in places overnight. The day was showery through most of the country but mainly dry in the East. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 15.9 mm at Roads*  
*Temperature: Lowest max. 12.6°C at Finner, highest max. 22.3°C at Mallow (Spa Hse).*  
*Lowest min. 7.5°C at Dundalk (Annaskeagh WW), highest min. 12.8°C at Glengarriff (Ilnacullin)*  
*Sunshine: Nil at Sherkin Island to 7.1 hours at Ashford (Cronykeery)*

**Monday 22nd:** Mainly dry and clear overnight, but some rain and drizzle in southern areas at first. The morning was dry and mainly cloudy, further north had good deal of sunshine. The afternoon was dry with some sunshine. The evening and night again dry with some good bright/clear periods. Winds were light to moderate, northwesterly.

*Rainfall: Nil at numerous locations to 4.3 mm at Sligo Airport*  
*Temperature: Lowest max. 13.4°C at Belderrig, highest max. 20.3°C at Waterford (Tycor).*  
*Lowest min. 5.3°C at Ballymore, highest min. 11.2°C at Valentia Obs*  
*Sunshine: 1.2 hours at Cork Apt to 11.2 hours at Arklow (Ballyrichard Hse)*

**Tuesday 23rd:** It was cool overnight with some fog patches. These cleared quickly in the early morning and it was bright and sunny across most of the country, with some cloud in the Southwest. Good conditions continued into the afternoon but cloud hung on in the Southwest and also began to build in the West towards evening, with some outbreaks of drizzle in the West towards midnight. Winds were light, variable in direction.

*Rainfall: Nil at numerous locations to 3.2 mm at Roads*  
*Temperature: Lowest max. 15.4°C at Malin Head, highest max. 22.5°C at Cavan (Drumconnick).*  
*Lowest min. 2.3°C at Glenties Hatchery, highest min. 11.4°C at Ballymore*  
*Sunshine: 0.1 hours at Sherkin Island to 12.5 hours at Dublin Apt*

**Wednesday 24th:** Mostly dry overnight with some patchy rain in South and Southwest, some fog also along the south coast. The morning was mainly dry and cloudy with just some drizzle along northern coasts. A lot of dry weather for the rest of the day with some sunny spells, but again some drizzle along northern and southern coasts. Winds were light, southeast to southwest.

*Rainfall: Nil at numerous locations to 6.4 mm at Kylemore Abbey Gardens*  
*Temperature: Lowest max. 15.8°C at Sherkin Island, highest max. 21.9°C at Ardtarmon.*  
*Lowest min. 6.2°C at Derrygreenagh, highest min. 14.5°C at Killarney (Muckross Hse)*  
*Sunshine: Nil at numerous locations to 6.8 hours at Newport (Furnace)*

**Thursday 25th:** There were a few bright spells, but generally cloudy and misty. There were some outbreaks of rain too, persistent at times, but much of the rain was confined to northern areas, by early afternoon. A band of heavy rain pushed into Atlantic coastal areas in the evening. Winds were light, southeasterly.

*Rainfall: Nil at numerous locations to 20.9 mm at Gernapeka*  
*Temperature: Lowest max. 16.2°C at Roches Pt, highest max. 21.2°C at Dublin (Glasnevin).*  
*Lowest min. 8.8°C at Glenties Hatchery, highest min. 15.5°C at Dublin (Glasnevin)*  
*Sunshine: Nil at numerous locations to 11.5 hours at Sherkin Island*

**Friday 26th:** Most places had rain in the early hours with the southern half of the country reporting the heaviest rainfall. A clearance brought in fresher conditions with lower humidity although temperatures still rose to the high teens and low twenties away from Atlantic fringes. There were a few well scattered light showers through the afternoon but there were still good long spells of sunshine. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 7.1 mm at Stradbally*  
*Temperature: Lowest max. 16.1°C at Sherkin Island, highest max. 22.5°C at Piltown (Kildalton Agr Col).*  
*Lowest min. 9.8°C at Craggaunowen, highest min. 15.6°C at Dublin (Glasnevin)*  
*Sunshine: 0.8 hours at JFK Park to 11.6 hours at Dungarvan (Carriglea), Shannon Apt*

**Saturday 27th:** Mostly dry overnight and for the first part of the day. Some light showers crossed the country during the morning and early afternoon. More widespread bands of rain began spreading up from the Southwest from mid-afternoon on. The heaviest of the rain was in the South. Some sunshine in the East and North, generally warm. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 36.6 mm at Gernapeka*  
*Temperature: Lowest max. 15.3°C at Mace Head, highest max. 21.7°C at Dun Laoghaire.*  
*Lowest min. 8.0°C at Castleconnell, highest min. 14.4°C at Dooks*  
*Sunshine: 0.1 hours at Shannon Apt, Valentia Obs to 9.5 hours at Sherkin Island*

**Sunday 28th:** Widespread rain in the very early hours. This cleared quickly and was followed by scattered showers, which were mostly light. Many areas stayed dry during daylight hours and had good spells of sunshine. It was breezy along Atlantic coasts and temperatures reached the high teens or low twenties. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 6.8 mm at Castlebar (Burren)*  
*Temperature: Lowest max. 15.6°C at Belmullet, highest max. 22.1°C at Ashford (Cronykeery).*  
*Lowest min. 10.0°C at Clonroche (Knoxtown), highest min. 15.5°C at Dublin (Glasnevin)*  
*Sunshine: Nil at Sherkin Island to 10.6 hours at Cork Apt*

**Monday 29th:** Most places started dry but patchy rain and drizzle spread from the Atlantic during the day to affect most areas. Even though it was quite a cloudy day temperatures were high, generally the high teens or low twenties. It stayed warm and humid overnight and sea fog developed along the south coast. Winds were moderate, southeast to southwest.

*Rainfall: Nil at numerous locations to 15.9 mm at Glengarriff (Ilnacullin)*  
*Temperature: Lowest max. 16.5°C at Sherkin Island, highest max. 23.0°C at Dublin (Glasnevin).*  
*Lowest min. 9.8°C at Slieve Bloom Mtns (Nealstown), highest min. 14.5°C at Dooks*  
*Sunshine: Nil at Belmullet to 4.6 hours at Dublin (Glasnevin)*

**Tuesday 30th:** Some fog along the south coast overnight, with patchy drizzle along some western coasts, but dry elsewhere with a widespread mist. The day was mostly sunny and warm over the Midlands and East, but cloudy over western parts, with patchy drizzle in places. Fog again on the south coast late in the day. Winds were moderate to fresh, southeasterly.

*Rainfall: Nil at numerous locations to 6.1 mm at Glencar (Dreenagh)*  
*Temperature: Lowest max. 16.2°C at Mace Head, highest max. 26.1°C at Dublin (Glasnevin).*  
*Lowest min. 12.0°C at Craggaunowen, highest min. 17.0°C at Dublin (Merriion Square)*  
*Sunshine: 0.1 hours at Valentia Obs to 13.8 hours at Dublin (Glasnevin)*

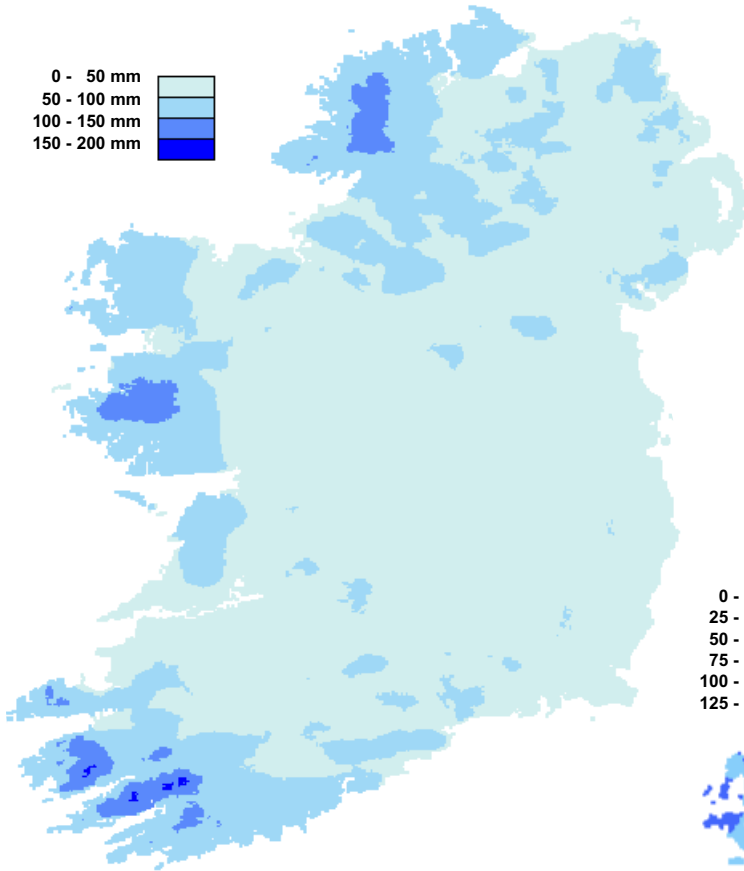
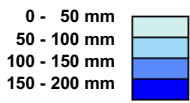
### DRY SPELLS AND ABSOLUTE DROUGHTS IN PARTS

The majority of stations reported below Long-Term Average (LTA) rainfall with the exception of stations in parts of Cork, Kerry and Donegal. Percentage of LTA values and monthly rainfall total were lowest in the Dublin area, with Dublin (Phoenix Park) reporting the month's lowest percentage of LTA and rainfall total with 16% of LTA and 10.9 mm respectively, its driest June since 1942. This low monthly rainfall total was attributed to a 'dry spell' (*a period of 15 or more consecutive days to none of which is credited 1.0 mm or more of precipitation*) between the 5th and 26th. A proportion of stations reported dry spells of varying lengths, namely stations in the eastern half of the country and in the parts of the West and Southwest. The longest dry spells were reported in the Dublin area, with up to 23 days reported at Dublin (Merrion Square) and Dun Laoghaire resulting in low monthly totals of 12.2 mm (21% of LTA) and 12.7 mm. This was their driest June since 1995 and 1997 (since it opened), respectively. A few isolated stations in Wexford, Wicklow, Tipperary and Kildare, reported 'absolute drought' conditions (*a period of 15 or more consecutive days to none of which is credited 0.2 mm or more*) with the longest absolute drought reported at Gorey (Garden City), Co Wexford with a period of absolute drought between June 5th and 26th, resulting in a monthly accumulation of just 31.6 mm. Over a third of stations reported drier June conditions in 2006, with the majority of remaining stations reporting June 1995 and June 2010 as significantly more dry. The highest percentage of LTA rainfall and monthly accumulation was at a gauge in the Cummeragh Mountains, Co Kerry with 118% of LTA and 264.2 mm of rain.

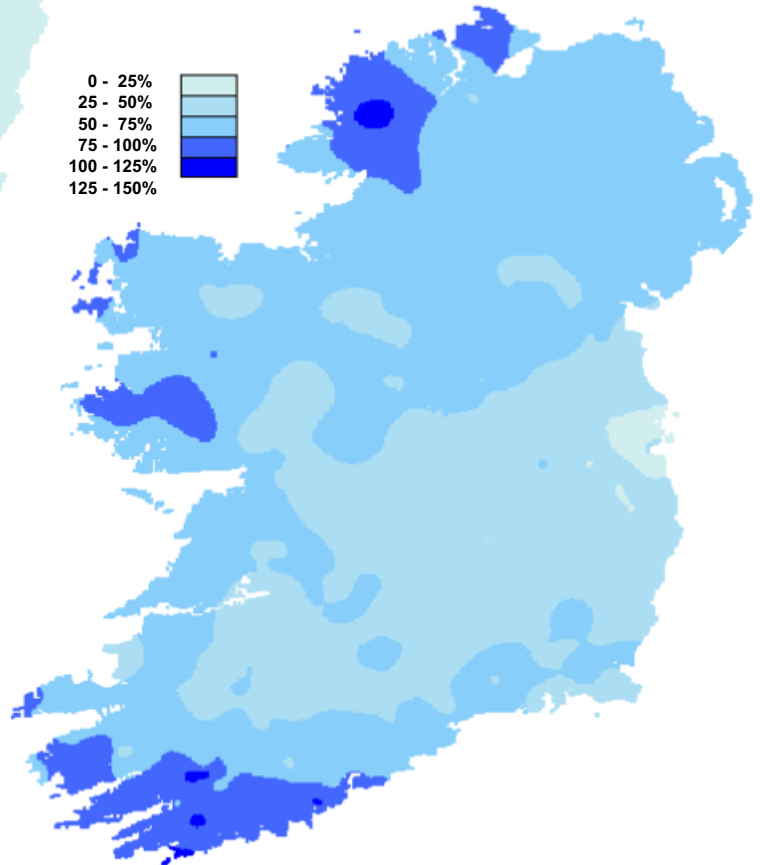
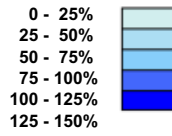
COUNTY/ STATION	TOTAL AMOUNT (mm)	% OF 1981-2010 AVERAGE	MOST IN A DAY / DATE		NUMBER OF RAINDAYS (>0.2mm)	NUMBER OF WETDAYS (>1mm)
<b>CO CARLOW</b>						
CARLOW (OAK PARK)	29.7	49	14.4	1	6	4
<b>CO CAVAN</b>						
BALLYHAISE	36.5	54	6.4	27	15	10
<b>CO CLARE</b>						
CARRON	66.2	66	17.4	1	16	11
SHANNON AIRPORT	26.9	39	7.4	1	14	7
<b>CO CORK</b>						
BALLINCURRIG (PEAFIELD)	55.3	63	13.3	1	10	7
CORK AIRPORT	53.4	66	13.1	1	10	7
FERMOY (MOORE PARK)	34.0	48	10.5	1	12	8
ROCHE'S POINT	61.3	96	14.1	1	9	8
SHERKIN ISLAND	72.8	97	20.2	1	13	7
<b>CO DONEGAL</b>						
BALLYSHANNON (CATHLEEN'S FALL)	51.4	74	10.3	1	13	11
GLENTIES HATCHERY	86.4	91	21.4	1	14	13
MALIN HEAD	55.0	78	11.8	4	17	11
<b>CO DUBLIN</b>						
CASEMENT AERODROME	17.4	28	7.1	1	8	6
DUBLIN (MERRION SQUARE)	12.2	21	4.7	27	8	3
DUBLIN AIRPORT	14.1	21	3.1	1 27	9	5
DUBLIN (PHOENIX PARK)	10.9	16	4.6	1	8	3
<b>CO GALWAY</b>						
MAAM VALLEY	117.6	78	31.6	27	21	16
<b>CO KERRY</b>						
ARDFERT (LISCAHANE)	29.2	41	7.3	1	11	8
VALENTIA OBSERVATORY	79.6	84	15.9	1 27	18	11
<b>CO KILKENNY</b>						
THOMASTOWN (MT. JULIET)	28.6	44	11.1	1	8	5
<b>CO LIMERICK</b>						
MOUNT RUSSELL	40.8	44	15.2*	1	11*	6*
<b>CO MAYO</b>						
BELMULLET	52.1	72	9.1	5	17	10
DELPHI LODGE	96.7		21.5	1	18	14
KNOCK AIRPORT	50.8	56	14.3	1	16	12
STRAIDE	38.5	52	12.0	1	16	9
<b>CO MEATH</b>						
WARRENTOWN	22.9	32	9.5	1	11	5
<b>CO MONAGHAN</b>						
CARRICKMACROSS (DUNOGE)	34.5	51	9.8	27	11	8
<b>CO OFFALY</b>						
DERRYGREENAGH	26.0	37	6.6	4	10	5
<b>CO ROSCOMMON</b>						
MOUNTDILLON	42.4	57	7.6	1	17	9
<b>CO SLIGO</b>						
ARDTARMON	38.7	55	9.5	1	14	11
<b>CO TIPPERARY</b>						
FETHARD (PARSONSHILL)	28.3	38	11.3	1	11	6
GURTEEN (AG.COLLEGE)	28.7	40	6.2	4	13	8
<b>CO WATERFORD</b>						
DUNGARVAN (CARRIGLEA)	50.0	62	17.4	1	10	7
WATERFORD (TYCOR)	39.3	53	14.9	1	8	6
<b>CO WESTMEATH</b>						
MULLINGAR	36.7	50	8.8	1	15	7
<b>CO WEXFORD</b>						
CLONROCHE (KNOXTOWN)	35.1		15.6	1	8	5
JOHNSTOWN CASTLE	32.5	45	16.8	1	10	6
<b>CO WICKLOW</b>						
ASHFORD (CRONYKEERY)	20.9	34	13.9	1	6	4

\* ESTIMATED DATA USED IN CALCULATION. TABLE REPRESENTS DATA FROM A SMALL SELECTION OF RAINFALL STATIONS. ALL DATA IS 09-09 HR

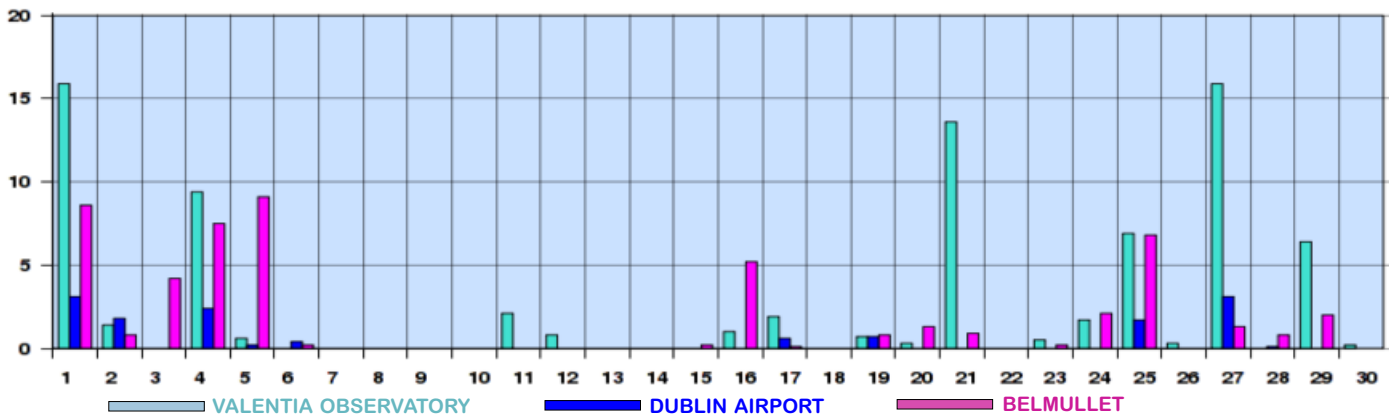
## TOTAL RAINFALL (mm)



## PERCENTAGE OF NORMAL RAINFALL (1981-2010 NORMALS)



## DAILY 0901-0900hr RAINFALL VALUES (mm)

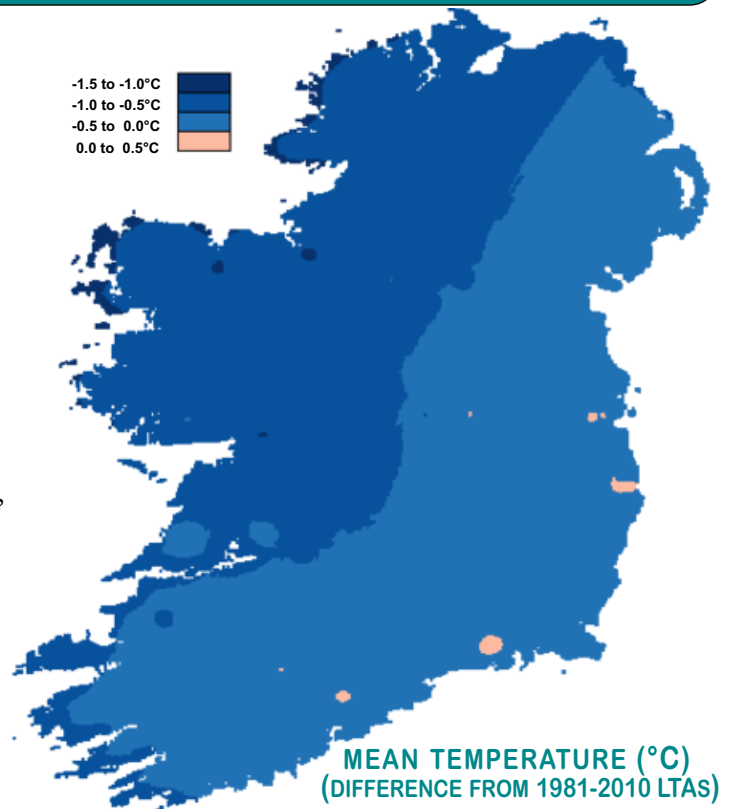


**BELOW LONG-TERM AVERAGE MEAN**

**TEMPERATURES NEARLY EVERYWHERE**

Monthly mean air temperatures were nearly all below Long-Term Average (LTA) with mean temperatures slightly above LTA in isolated areas in the South, Southeast and East. Deviations from LTA were over  $-1^{\circ}\text{C}$  in coastal counties in the West and North with the largest difference below LTA reported at Markree, Co Sligo with  $-1.4^{\circ}\text{C}$  (monthly mean air temperature of  $12.2^{\circ}\text{C}$ ). The largest difference above LTA was reported at Waterford (Tycor) with  $0.4^{\circ}\text{C}$  (monthly mean temperature of  $14.8^{\circ}\text{C}$ ). Monthly mean air temperatures ranged from  $11.9^{\circ}\text{C}$  at both Malin Head, Co Donegal ( $-0.8^{\circ}\text{C}$  from LTA) and Knock Airport, Co Mayo ( $-0.5^{\circ}\text{C}$  from LTA) to  $14.9^{\circ}\text{C}$  ( $0.3^{\circ}\text{C}$  from LTA) at Dublin (Glasnevin). Most stations reported cooler June conditions in 2011 and 2012.

The highest maxima were mainly reported on the 11th, 10th and 30th. Highest maxima ranged from  $18.3^{\circ}\text{C}$  at Belmullet, Co Mayo (on the 29th), its lowest June maximum since 2002 to  $26.1^{\circ}\text{C}$  at Dublin (Glasnevin) on the 30th, its highest June temperature since 2000. Malin Head reported a maximum of  $24.7^{\circ}\text{C}$  on the 30th, its highest for June since 1978. The month's lowest minima were mainly reported on the 1st, 8th and 9th with lowest air minima ranging from  $0.7^{\circ}\text{C}$  at Dublin Airport, its lowest June minimum on record since the station opened in 1942



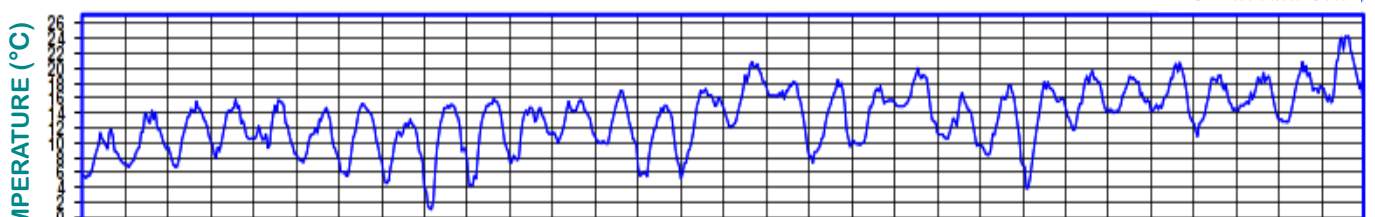
to  $6.6^{\circ}\text{C}$  at Roche's Point, Co Cork. The month's lowest grass minimum of  $-3.4^{\circ}\text{C}$  was reported at both Cloosh, Co Galway (on the 7th) and at Casement Aerodrome, Co Dublin (on the 9th), its lowest grass min at Casement during June in 50 years. There were no reports of air frost with up to nine days with ground frost reported at Ashford (Cronykeery), Co Wicklow.

**HOURLY TEMPERATURES JUNE 2015**

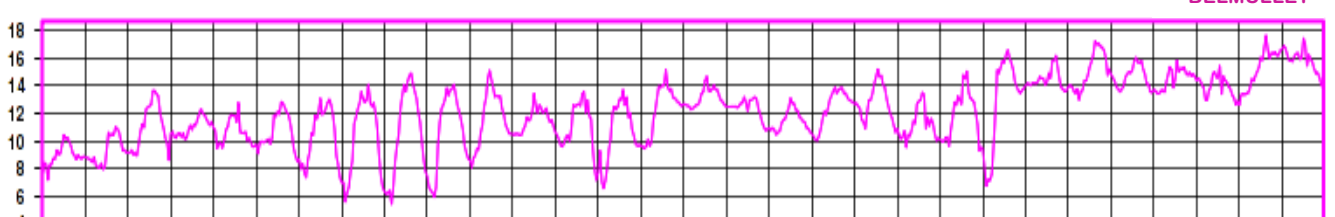
VALENTIA OBSERVATORY



DUBLIN AIRPORT



BELMULLET



DAY OF MONTH

COUNTY/ STATION	MEAN MAX.	MEAN MIN.	DIFFERENCE FROM 1981-2010		HIGHEST MAX./DATE	LOWEST MIN./DATE	LOWEST GRASS MIN./DATE		DAYS WITH FROST	
			MEAN	AVERAGE			AIR	GROUND		
<b>CO CARLOW</b> CARLOW (OAK PARK)	18.3	9.0	13.7	-0.4	24.0 30	3.6 9	-1.4 7	0	4	
<b>CO CAVAN</b> BALLYHAISE	17.1	8.7	12.9	-0.8	24.0 30	2.0 8	-1.3 8	0	2	
<b>CO CLARE</b> CARRON	16.0	9.0	12.5	-0.6	19.7 30	4.7 1	0.3 1	0	0	
SHANNON AIRPORT	17.5	10.1	13.8	-0.8	22.9 30	4.2 8	3.1 8	0	0	
<b>CO CORK</b> BALLINCURRIG (PEAFIELD)	17.9	9.1	13.5	0.2	22.5 20	4.5 1	4.3 1	0	0	
CORK AIRPORT	17.0	9.5	13.3	-0.2	21.5 17	4.1 1	-1.0 3	0	1	
FERMOY (MOORE PARK)	18.0	9.2	13.6	-0.2	21.8 20	3.3 7 9	0.5 7 9	0	0	
ROCHE'S POINT	16.7	10.6	13.6	-0.3	21.3 20	6.6 1	1.9 9	0	0	
SHERKIN ISLAND	15.3	10.7	13.0	-0.9	18.6 12	5.9 9	1.1 9	0	0	
<b>CO DONEGAL</b> BALLYSHANNON (CATHLEEN'S FALL)	16.3	9.4	12.9	-0.6	24.0 30	3.5 9		0		
GLENTIES HATCHERY	16.4	7.9	12.1	-1.0	23.4 30	1.4 8 9	-0.4 8	0	2	
MALIN HEAD	14.6	9.2	11.9	-0.8	24.7 30	5.7 1 15	-0.7 9	0	1	
<b>CO DUBLIN</b> CASEMENT AERODROME	18.0	8.9	13.5	-0.1	25.4 30	2.1 9	-3.4 9	0	3	
DUBLIN (MERRION SQUARE)	17.8	10.5	14.2	-0.6	24.4 30	6.3 1		0		
DUBLIN AIRPORT	17.7	8.7	13.2	-0.4	24.7 30	0.7 9	-3.2 9	0	4	
DUBLIN (PHOENIX PARK)	18.6	9.3	13.9	0.1	25.6 30	2.8 9	-1.8 9	0	3	
<b>CO GALWAY</b> MAAM VALLEY	16.6	9.3	12.9	-0.7	20.2 11	4.1 9	2.2 9	0	0	
<b>CO KERRY</b> ARDFERT (LISCAHANE)	17.4	9.6	13.5	-0.4	22.5 30	2.9 8	2.5 8	0	0	
VALENTIA OBSERVATORY	15.7	10.7	13.2	-0.6	18.5 10	6.3 7	1.9 11	0	0	
<b>CO LIMERICK</b> MOUNTRUSSELL	17.4	8.7	13.0	-0.3	21.4 30	3.9 9	1.6 9 15	0	0	
<b>CO MAYO</b> BELMULLET	14.7	9.6	12.2	-1.1	18.3 29	5.2 9	2.0 9	0	0	
DELPHI LODGE	16.0	9.6	12.8	-0.8	21.1 11	4.5 9	1.0 1 23	0	0	
KNOCK AIRPORT	15.3	8.4	11.9	-0.5	19.7 30	3.8 1	1.4 8	0	0	
STRAIDE	17.0	8.5	12.7	-0.7	22.0 30	1.0 8	-3.2 8	0	6	
<b>CO MEATH</b> WARRENTOWN	18.4	9.0	13.7	0.0	25.8 30	2.1 9	0.0 9	0	0	
<b>CO MONAGHAN</b> CARRICKMACROSS (DUNOGE)	18.0	8.5	13.3	-0.4	25.0 30	2.6 8 9	-1.7 9	0	6	
<b>CO OFFALY</b> DERRYGREENAGH	18.5	8.9	13.7	0.2	24.6 30	3.4 1 7	1.3 7	0	0	
<b>CO ROSCOMMON</b> MOUNTDILLON	17.7	8.6	13.1	-0.6	23.9 30	1.1 9	-1.3 8 9	0	2	
<b>CO SLIGO</b> ARDTARMON	16.9	9.3	13.1	-0.7	23.2 30	4.6 9 10	-0.5 9	0	1	
<b>CO TIPPERARY</b> FETHARD (PARSONSHILL)	17.9	8.9	13.4	-0.1	23.0 30	4.1 9	0.5 1	0	0	
GURTEEN (AG.COLLEGE)	17.4	8.6	13.0	-0.8	22.3 30	1.7 8	-1.5 8	0	4	
<b>CO WATERFORD</b> DUNGARVAN (CARRIGLEA)	18.8	9.4	14.1	-0.2	23.1 20	3.5 9	0.4 7	0	0	
WATERFORD (TYCOR)	19.1	10.4	14.8	0.4	23.4 20	5.8 10		0		
<b>CO WESTMEATH</b> MULLINGAR	17.4	8.5	12.9	-0.5	23.2 30	3.7 1 9	-2.4 9	0	5	
<b>CO WEXFORD</b> CLONROCHE (KNOXTOWN)	18.2	8.2	13.2	-0.1	22.5 20 30	1.2 1	-1.4 10	0	3	
JOHNSTOWN CASTLE	16.7	9.9	13.3	-0.4	22.1 30	5.3 1 7	1.2 7	0	0	
<b>CO WICKLOW</b> ASHFORD (CRONYKEERY)	18.2	9.1	13.6	0.2	23.6 30	2.8 7	-2.5 7	0	9	

\* PARTIAL DATA USED IN CALCULATION. TABLE REPRESENTS DATA FROM A SMALL SELECTION OF STATIONS. ALL DATA IS 09-09 HR

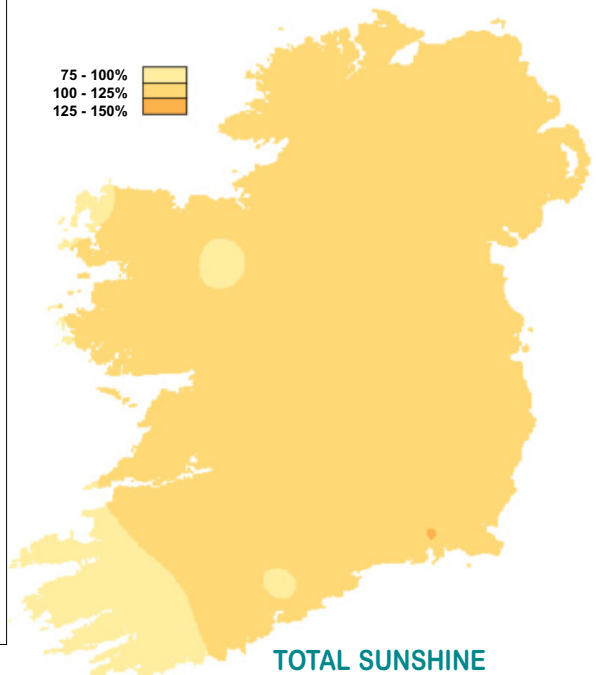
**SUNNIEST IN THE EAST; ABOVE LTA  
SUNSHINE IN MOST PLACES**

Sunshine totals were mainly above Long-Term Average (LTA) with below LTA values reported in parts of the western half of the country. Percentage of LTA values ranged from 86% Sherkin Island, Co Cork with a monthly sunshine total of 163.7 hours to 122% at Dublin (Glasnevin) with the months highest sunshine total of 207.0 hours. The month's lowest monthly sunshine was reported at Knock Airport, Co Mayo with 136.9 hours (94% of LTA). The month's sunniest day was 15.7 hours on the 10th reported at both Dublin Airport and Casement Aerodrome. The highest number of dull days (*days with less than 0.5 hours of sunshine*) ranged from one at Dublin Airport to 10 at Sherkin Island.

Percentage of global solar radiation LTA values were variable, ranging from 96% at Valentia Observatory, Co Kerry to 114% Dublin Airport.

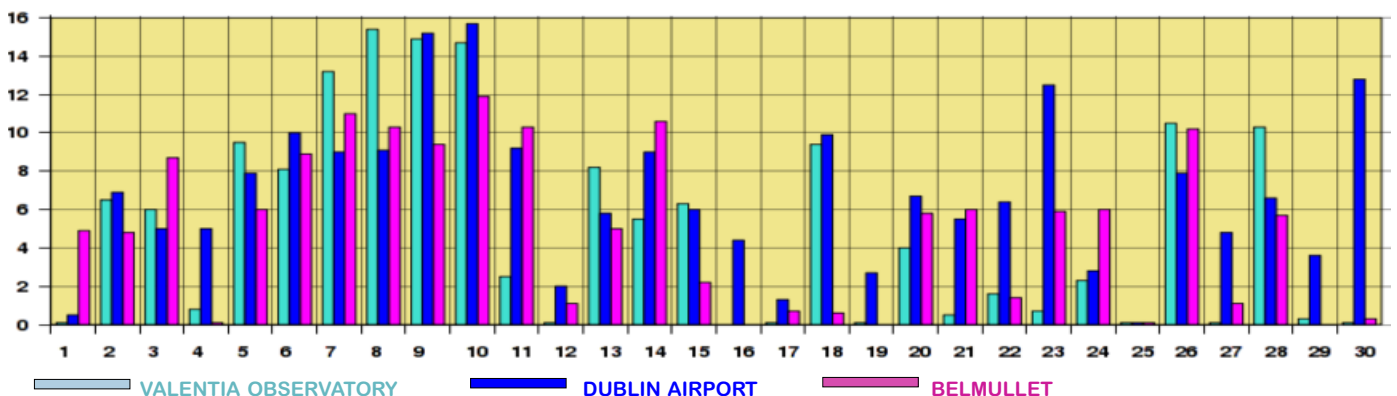
COUNTY/ STATION	DAILY MEAN (HOURS/DAY)	% OF 1981-2010 LTA	DULL DAYS (<0.5 HRS)	MOST IN A DAY/DATE
<b>CO CLARE</b>				
SHANNON AIRPORT	5.98	115	5	15.4 9
<b>CO CORK</b>				
BALLINCURRIG (PEAFIELD)	5.73	97	5	13.8 10
CORK AIRPORT	6.28	107	4	14.8 10
SHERKIN ISLAND	5.46	86	10	14.5 10
<b>CO DONEGAL</b>				
BALLYSHANNON (CATHLEEN'S FALL)	5.22	110	6	15.5 10
<b>CO DUBLIN</b>				
CASEMENT AERODROME	6.39	120	2	15.7 10
DUBLIN (GLASNEVIN)	6.90	122	2	13.9 10
DUBLIN AIRPORT	6.81	118	1	15.7 10
<b>CO KERRY</b>				
ARDFERT (LISCAHANE)	-----not available-----			
VALENTIA OBSERVATORY*	5.07		9	15.4 8
<b>CO MAYO</b>				
BELMULLET*	4.97		6	11.9 10
KNOCK AIRPORT	4.56	94	5	12.8 9
NEWPORT (FURNACE)	4.97	109	8	12.3 3
STRAIDE	5.50	106	4	14.7 9
<b>CO WATERFORD</b>				
DUNGARVAN (CARRIGLEA)	6.60	118	3	14.7 10
<b>CO WEXFORD</b>				
CLONROCHE (KNOXTOWN)	6.55	114	3	14.0 10
JFK PARK	6.60	121	3	13.1 10
WEXFORD WILDFOWL RESERVE	-----not available-----			
<b>CO WICKLOW</b>				
ARKLOW (BALLYRICHARD HSE.)	7.39		2	15.1 10
ASHFORD (CRONYKEERY)	6.87	113	2	14.4 10

\* PARTIAL DATA USED IN CALCULATION  
\* SUNSHINE DURATION DERIVED FROM AUTOSOL INSTRUMENTS. LONG-TERM AVERAGE COMPARISONS ARE NOT USED WITH AUTOSOL READINGS.

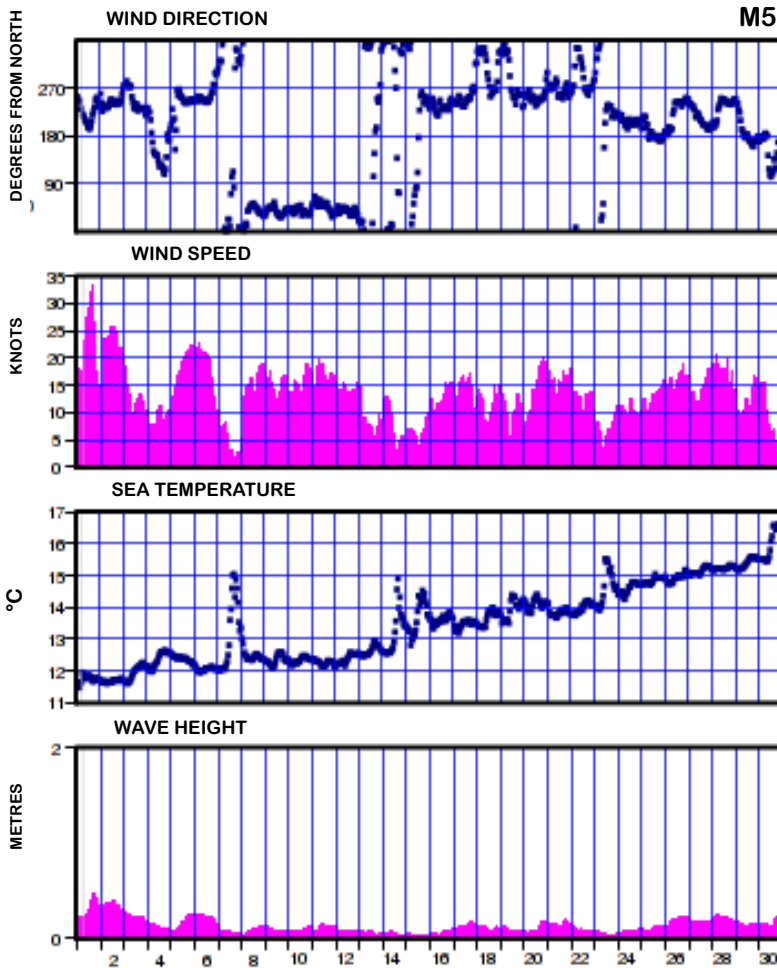


**DAILY SUNSHINE VALUES (HOURS)**

**TOTAL SUNSHINE  
(PERCENTAGE OF 1981-2010 NORMALS)**



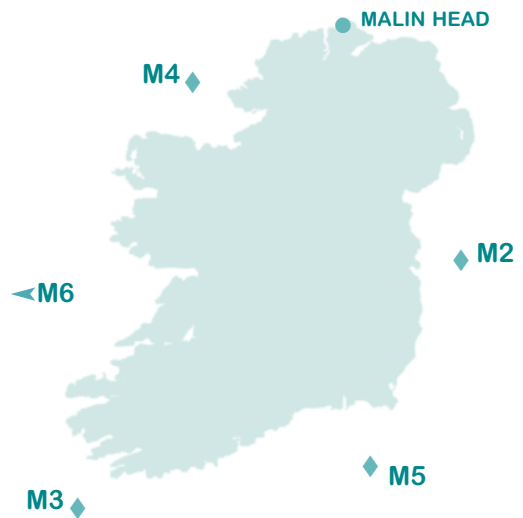
### MARINE OBSERVATIONS FROM IRISH MARINE DATA BUOY NETWORK



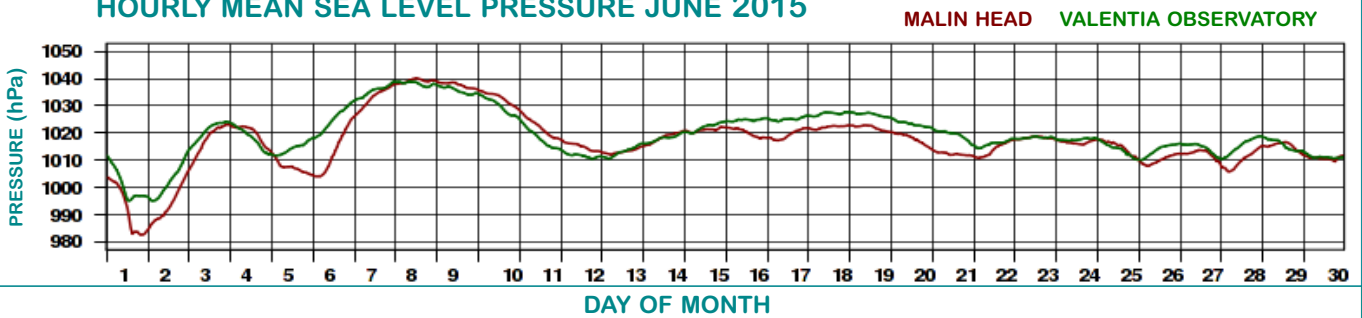
HOURLY SEA TEMPERATURE AND WAVE CONDITIONS AT M5 (51° 41' 24" N 6° 42' 16" W)

BUOY	SEA SURFACE TEMP. (°C)	MEAN WIND SPEED (knots)	MAX 10-MIN WIND (knots)	MEAN SIGNIFICANT WAVE HEIGHT (m)	MAX SIGNIFICANT WAVE HEIGHT (m)
M2	11.5	11.7	34.6	0.8	5.1
M3	n/a	12.1	29.2	2.2	6.1
M4	11.5	13.3	35.0	n/a	n/a
M5	13.5	12.7	33.2	1.3	4.8
M6	12.2	14.3	41.0	2.6	6.2
MALIN HEAD	11.7	* PARTIAL DATA			

#### SUMMARY OF MEAN MONTHLY VALUES

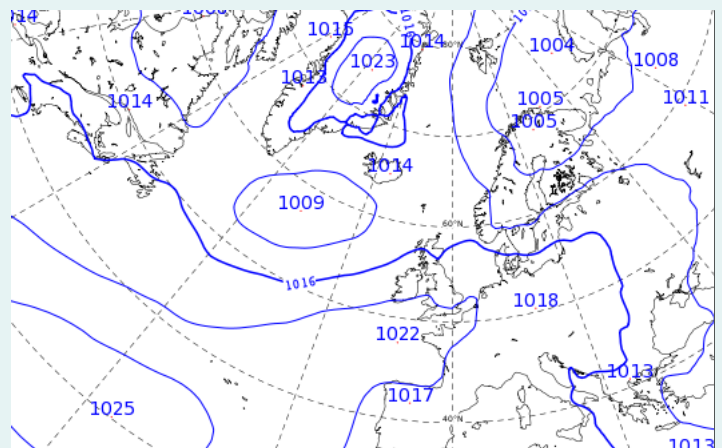


### HOURLY MEAN SEA LEVEL PRESSURE JUNE 2015



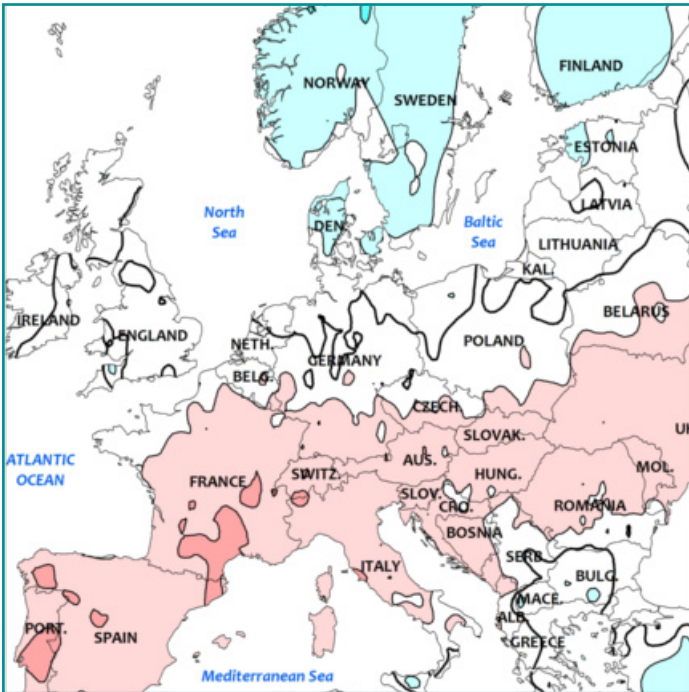
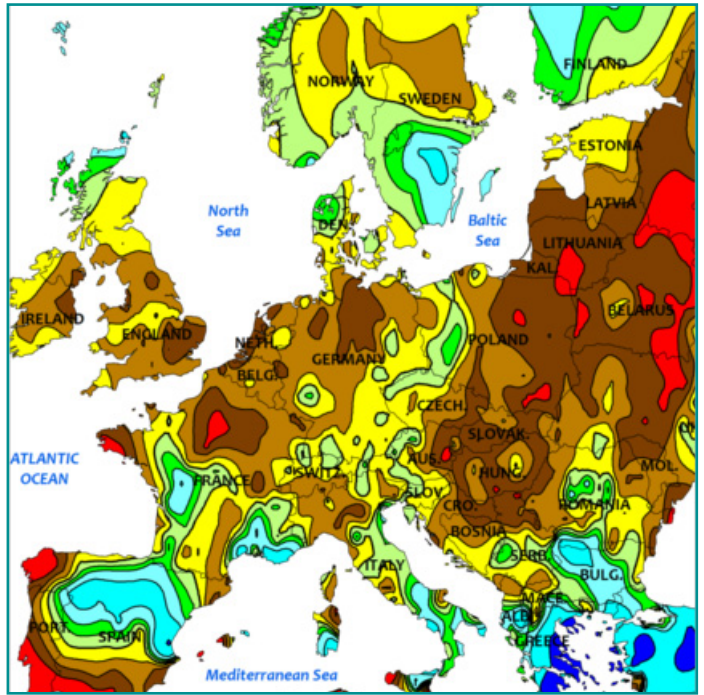
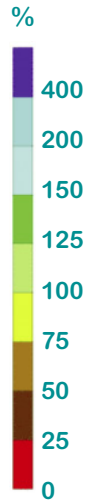
### ATMOSPHERIC PRESSURE

Monthly mean sea level pressure values ranged from just above 1017 hPa in the North to just below 1020 hPa in the South. The month's lowest pressure value of 982.6 hPa was recorded at Malin Head, Co Donegal on the 1st between 1900 and 2100 UTC as a depression of 973 hPa was located over the northwest Atlantic. The month's highest pressure value was 1040.9 hPa recorded at Belmullet, Co Mayo on the 8th between 1000 UTC and 1100 UTC as a high pressure system of 1042 hPa spanned Atlantic and over the west coast of Ireland.

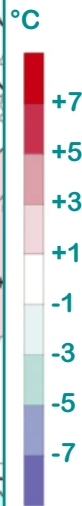


MONTHLY MEAN MSL PRESSURE, BASED ON 1200 UTC VALUES

**JUNE RAINFALL**  
(PERCENTAGE OF 1961-1990 NORMAL)



**JUNE MEAN TEMPERATURE**  
(DIFFERENCE FROM 1961-1990 NORMAL)



MAPS SUPPLIED BY NOAA  
CLIMATE PREDICTION CENTRE,  
US DEPARTMENT OF COMMERCE.  
GLOBAL WEATHER HIGHLIGHTS SUPPLIED  
BY AON BENFIELD

Tropical Storm Bill made landfall on Matagorda Island, Texas, on June 16th with maximum wind speeds of 60 knots (95 km/h) recorded. This storm brought torrential rainfall to the region, causing flooding in many areas. One death was recorded as a result of the severity of the storm.

Western Europe experienced heatwave conditions at the end of June. Temperatures exceeded 35.0°C in places. Central Madrid reported a June record on the 29th, reaching 39.7°C, while Madrid's Adolfo Suarez Madrid-Barajas Airport pushed up to 40.0°C, a first for June in records dating to 1945.

Heavy seasonal Mei-Yu rains brought flooding across several southern China provinces between June 1st and 4th killing at least nine people. Peak rain totals ranged from 250 mm to 394 mm falling in parts of Guizhou, Hunan, Jiangxi, Fujian, and the Guangdong provinces.

A heatwave from the 18th to the 24th in Pakistan resulted in the death of more than 1,240 individuals. Several areas recorded temperatures in excess of 40°C with the highest temperatures reported on the 20th. Cities of Larkana, Turbat and Sibi reported the highest maximum temperatures of 49°C.

Sixteen people lost their lives as a result of heavy rain and flooding in portions of Côte d'Ivoire. June 20th and 21st reported the highest death rate, as extreme rainfall caused devastation to the area.

Floods inundated parts of New Zealand's towards the end of June. Nelson city and the Tasman District reported flooding with a hill rain gauge near Takaka (near Tasman Bay) reporting 528mm of rain in a 48-hour period. This fell during a period of severe weather and storms, where the New Zealand Meteorological service reported over 180 lightning strikes. Significant rainfall accumulated in the rivers with the Wairoa River reaching 25 year flood level.

**GLOBAL WEATHER SUMMARY**

