

# MONTHLY WEATHER BULLETIN

NO. 347  
APRIL 2015



*A ewe and her baby lambs enjoy beautiful dry and sunny weather on Wednesday April 8th in a field near Tralee, Co Kerry. The nearby climate station of Ardfer (Lis Cahane) had day's highest maximum temperature of 19.6°C while also reporting the day's second highest daily sunshine total of 11.2 hours. This daily sunshine total was just beaten by Dublin Airport where 12.0 hours were reported. (Picture courtesy of Ruth Coughlan)*

## SUNNY EVERYWHERE; EXTREMELY DRY CONDITIONS IN PARTS OF THE SOUTH

Rainfall totals were variable with the majority reported as below their Long-Term Average (LTA). Most stations in southern coastal counties had dry conditions, with most reporting 50% or less of their LTA. Isolated stations in

Cork, Wexford and Waterford reported LTAs of below 20%. The month's lowest percentage of LTA and lowest monthly rainfall was recorded at Bannow, Co Wexford with 12% and 7.0 mm respectively, attributing this low monthly total to



### INSIDE



DAILY WEATHER- PAGES 8 & 9

WIND & ELEMENTS.....	4
UPPER ATMOSPHERE.....	5
LABORATORY.....	6
AGMET.....	6/7
DAILY WEATHER.....	8
RAINFALL .....	10
TEMPERATURE.....	12
SUNSHINE .....	14
MARINE & PRESSURE .....	15
GLOBAL WEATHER.....	16

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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 3rd and the 27th. A few other isolated stations in southern coastal counties also reported 'dry spells' of varying lengths during this period. The month's highest percentage of LTA was 137% recorded at Inagh (Mt Callan), Co Clare with 124.3 mm while the month's highest rainfall total was at Drummin (Tawnyard), Co Mayo with 147.5mm. The wettest days during April were mainly the 11th, 25th and 28th with the month's wettest day reported on the 11th with 38.8 mm at Kilkee (Moveen), Co Clare.

Monthly mean air temperatures were on or above average in the southern half of the country with below LTA means reported in the northern half. Differences from LTA ranged from -1°C at Markree, Co Sligo with a monthly mean of 7.6°C to 1.1°C at Mountrussell, Co Limerick with a mean temperature of 9.3°C. Mean temperatures ranged from 7.6°C at both Markree and at Dublin Airport (difference from LTA -0.7°C) to 9.7°C at Shannon Airport, Co Clare (difference from LTA 0.2°C). Highest temperatures were recorded during warm periods on the 7th and between the 21st to 23rd, with the month's highest maximum of 21.5°C recorded at both Ardfert (Liscahane), Co Kerry and Dooks, Co Kerry on the 23rd. Lowest temperatures were on

the 26th and 28th with the the month's lowest air and minimum measured at Mullingar, Co Westmeath on the 27th with -4.0°C.

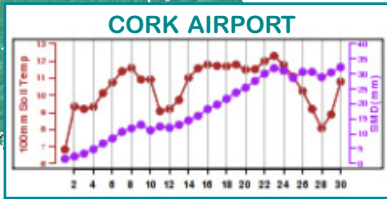
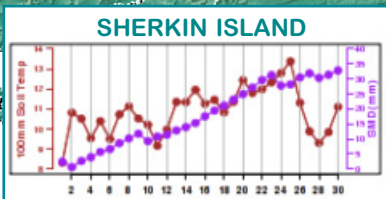
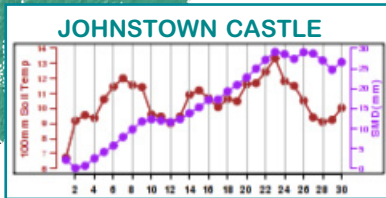
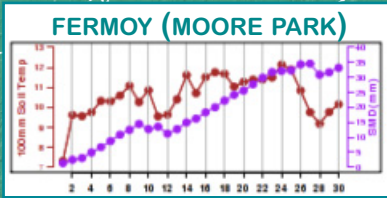
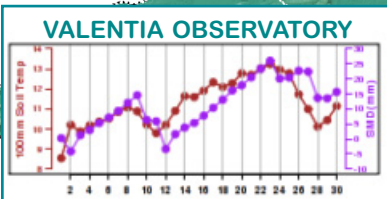
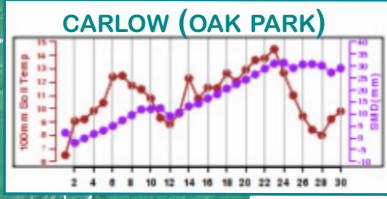
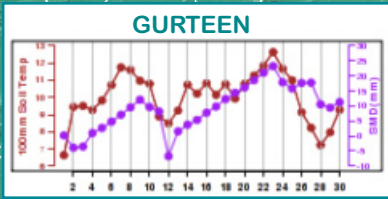
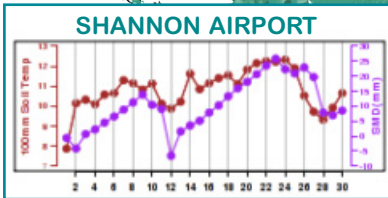
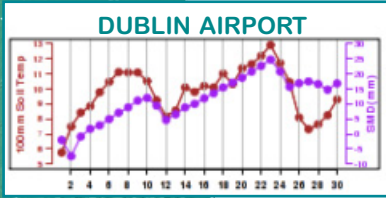
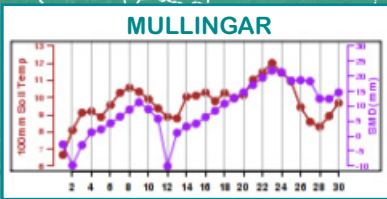
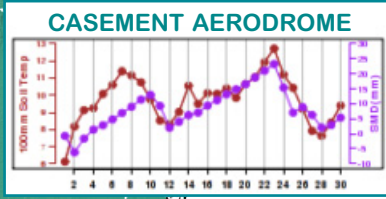
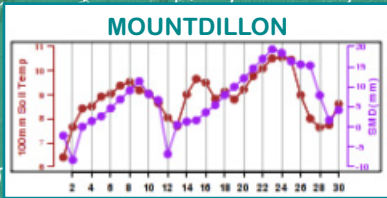
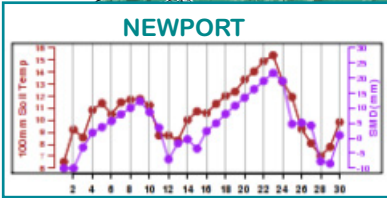
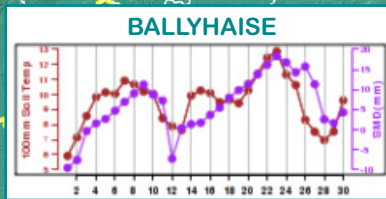
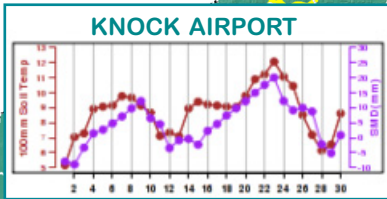
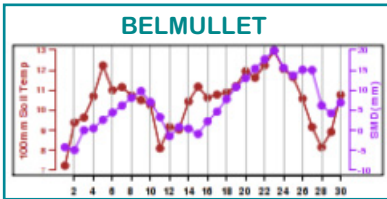
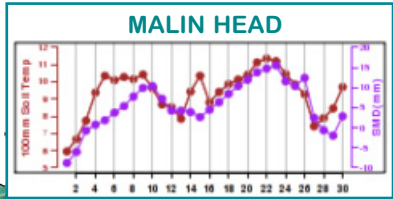
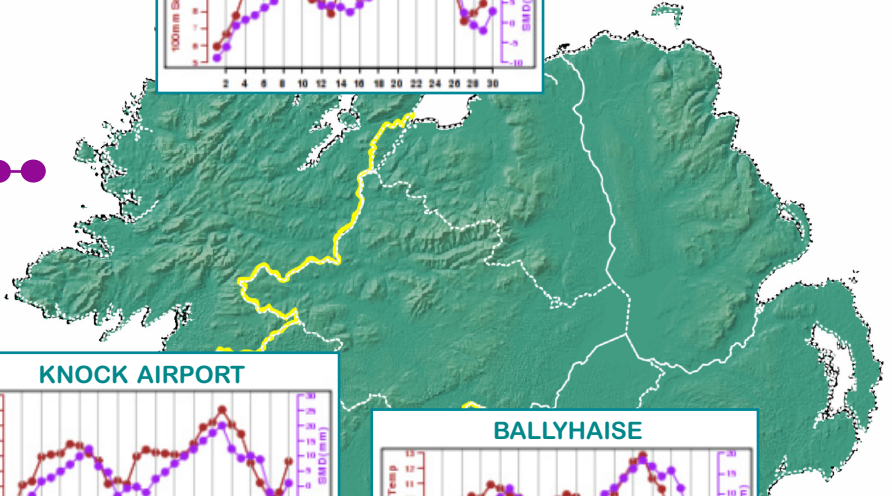
Available sunshine totals were well above normal for April. Lowest mean daily sunshine was at Knock Airport, Co Mayo with 6.5 hours per day (monthly total of 196.2 hours) and 137% of its LTA, respectively. The highest mean daily sunshine and percentage of LTA was at Shannon Airport, Co Clare with 8.2 hours per day (monthly total of 246.3 hours) and 159% respectively. The sunniest day was the 21st at Dublin Airport with 13.9 hours. The number of dull days (days with less than 0.5 hours of sunshine) were up to six at numerous stations in Mayo.

**Wind and Elements:** Monthly mean wind speeds ranged from 5.5 knots (10.2 km/h) at Fermoy (Moore Park), Co Cork to 12.0 knots (22.2 km/h) at Malin Head, Co Donegal. In parts, monthly mean wind speeds were the lowest in five to eight years. Gale winds were reported on three days the 3rd, 12th and 27th, with the month's highest 10-minute wind speed of 38 knots (70 km/h) reported at Roche's Point, Co Cork on the 12th and Finner, Co Donegal on the 27th. The month's highest gust was 51 knots (94 km/h) at Roche's Point on the 28th. Hail was reported on eight days during the month, with fog reported on 18 days across the country.



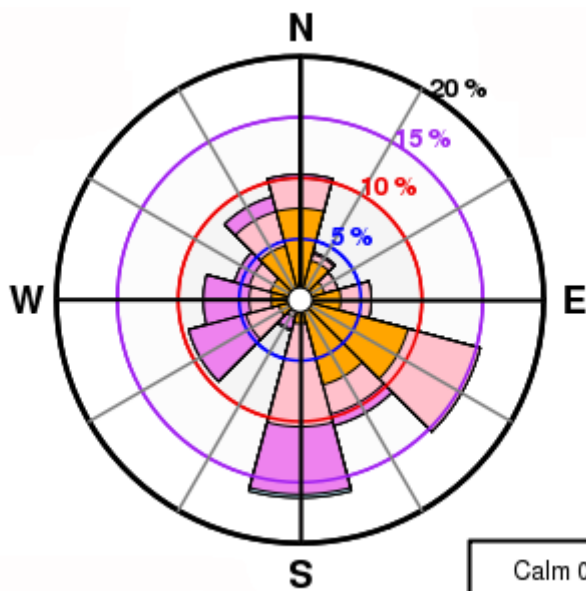
On Monday April 6th a partial fog bow was captured in the sea fog at Graball Bay, Crosshaven, Co Cork. Fog bows form when sunlight passes through the fog water droplets. Due to the small droplet size (which can be smaller than 0.5 mm), the light is diffracted rather than reflected and refracted (which occurs in a rainbow). This diffracted light results in a whitish bow. (Picture courtesy of Ruth Coughlan)

# DAILY SOIL MOISTURE DEFICITS & SOIL TEMPERATURES

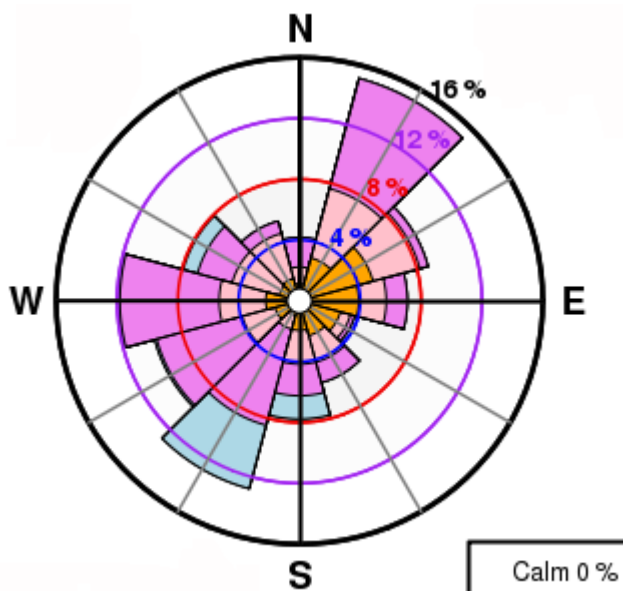


COUNTY / STATION	WIND (knots)										ELEMENTS (no.of days)					
	MEAN SPEED	MAX. 10-MIN. DIR.	MEAN		MAX. GUST DIR.	MAX. GUST SPEED	GUST DATE/TIME	DAYS WITH		HOURS WITH		SNOW	SNOW LYING	HAIL	THUNDER	FOG
			DATE/HOUR	DIR.				GALES	GUST > 34KNOTS	GUST > 34KNOTS	GUST > 34KNOTS					
<b>CO CARLOW</b>																
OAK PARK	6.7	180°	26	12/ 7	190°	39	12/ 618	0	1	2						
<b>CO CAVAN</b>																
BALLYHAISE	5.7	260°	18	27/16	260°	36	27/1655	0	2	2						
<b>CO CLARE</b>																
SHANNON AIRPORT	7.9	230°	27	28/18	240°	42	28/1720	0	3	7	0	0	3	0	1	
<b>CO CORK</b>																
FERMOY (MOORE PARK)	5.5	190°	20	12/ 4	180°	35	12/ 323	0	1	1						
SHERKIN ISLAND	11.4	200°	34	12/ 3	190°	43	12/ 313	1	4	14						
ROCHE'S POINT	10.3	200°	38	12/ 6	210°	51	28/1922	2	5	28						
CORK AIRPORT	9.1	330°	30	3/12	340°	44	3/1132	0	4	17	0	0	2	0	9	
<b>CO DONEGAL</b>																
MALIN HEAD	12.0	300°	37	27/20	300°	50	27/2022	1	8	62						
FINNER	9.0	270°	38	27/17	270°	50	27/1652	1	5	28						
<b>CO DUBLIN</b>																
DUBLIN AIRPORT	9.4	240°	28	11/15	210°	42	12/ 749	0	6	16	0	0	0	0	2	
		210°	28	12/ 8												
CASEMENT AERODROME	8.1	200°	31	12/ 8	200°	45	12/ 657	0	3	6	0	0	3	0	4	
<b>CO GALWAY</b>																
MACE HEAD	11.9	270°	34	27/14	240°	48	28/1545	1	7	57						
ATHENRY	6.8	260°	22	29/11	240°	34	11/1639	0	1	1						
<b>CO KERRY</b>																
VALENTIA OBSERVATORY	8.0	200°	31	12/ 4	200°	44	12/ 544	0	2	5						
<b>CO MAYO</b>																
CLAREMORRIS	7.4	290°	24	27/18	280°	39	27/1834	0	3	6						
BELMULLET	10.0	200°	29	13/14	230°	41	28/1352	0	5	27						
NEWPORT	8.4	300°	29	27/17	260°	43	27/1412	0	6	20						
KNOCK AIRPORT	8.3	260°	27	29/16	260°	40	27/1443	0	5	15	6					6
					250°	40	29/1131									
<b>CO MEATH</b>																
DUNSANY (GRANGE)	7.1	250°	25	29/15	260°	34	27/1938	0	2	2						
					250°	34	29/1508									
<b>CO ROSCOMMON</b>																
MOUNTDILLON	6.4	320°	21	3/12	210°	35	28/1814	0	3	3						
<b>CO TIPPERARY</b>																
GURTEEN (AG COLLEGE)	7.2	260°	23	11/14	280°	38	27/1706	0	2	2						
<b>CO WESTMEATH</b>																
MULLINGAR	5.5	240°	17	29/14	240°	31	29/1436	0	0	0						
<b>CO WEXFORD</b>																
JOHNSTOWN CASTLE	8.4	200°	23	12/ 7	200°	40	12/ 642	0	3	9						

CARLOW (OAK PARK)



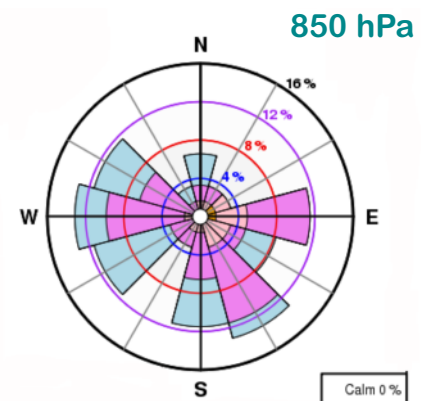
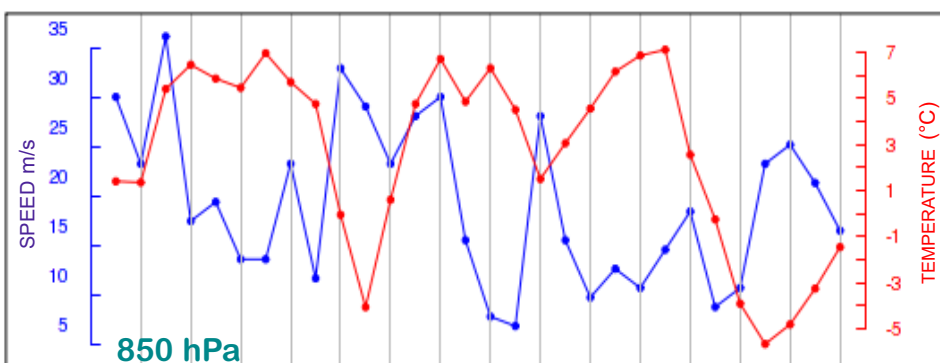
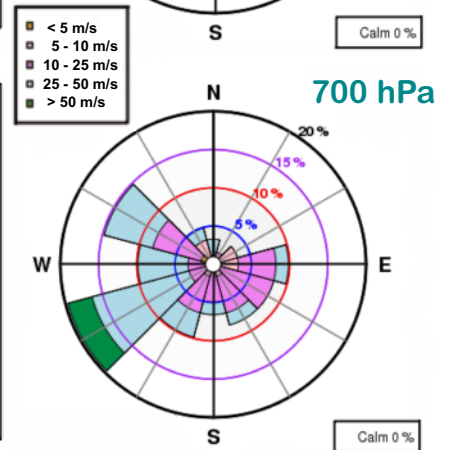
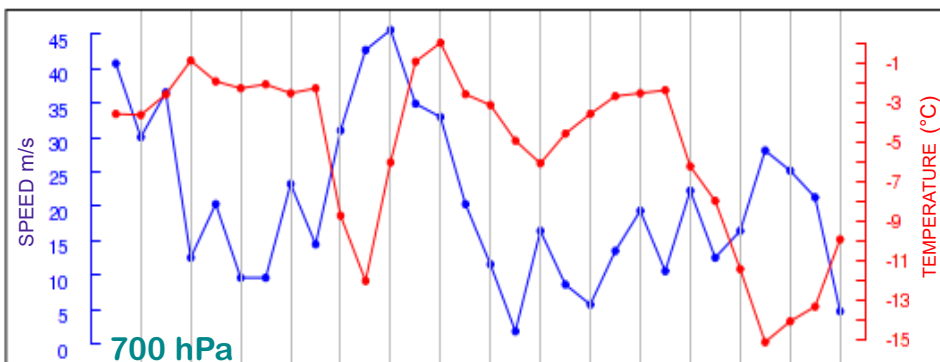
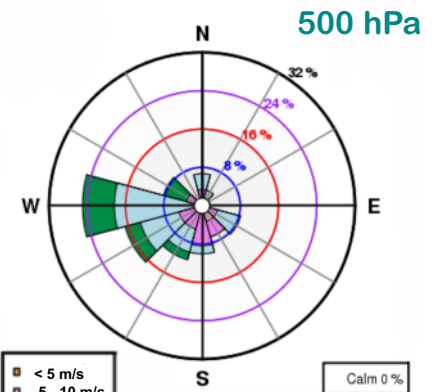
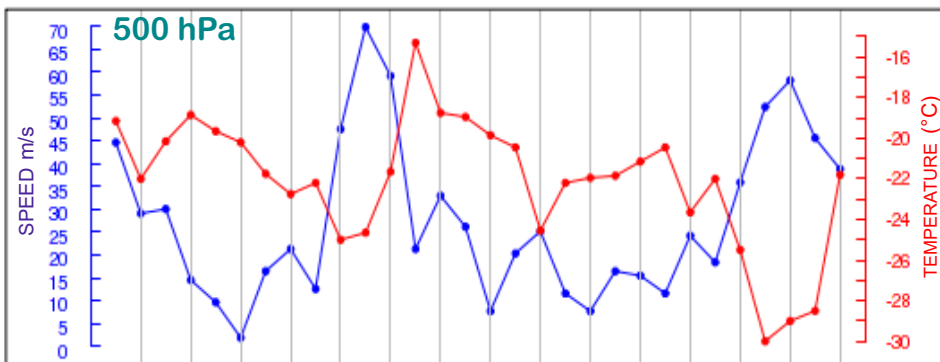
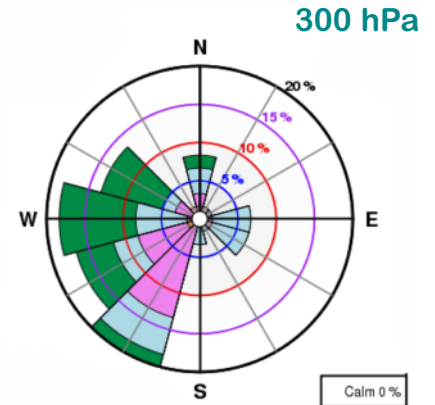
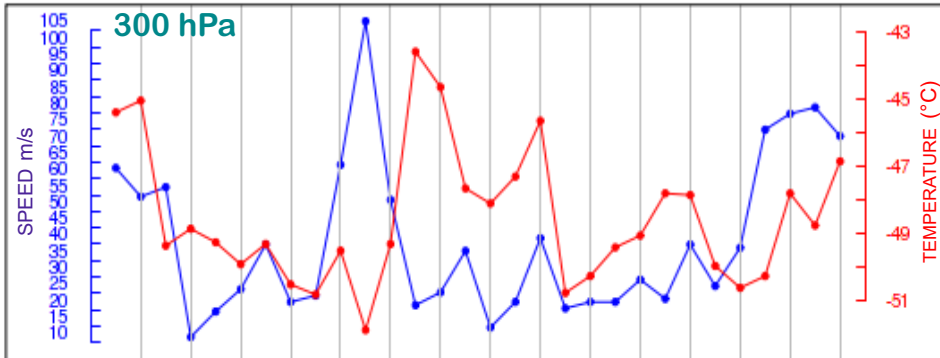
BELMULLET



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 APRIL 2015



DAY OF MONTH

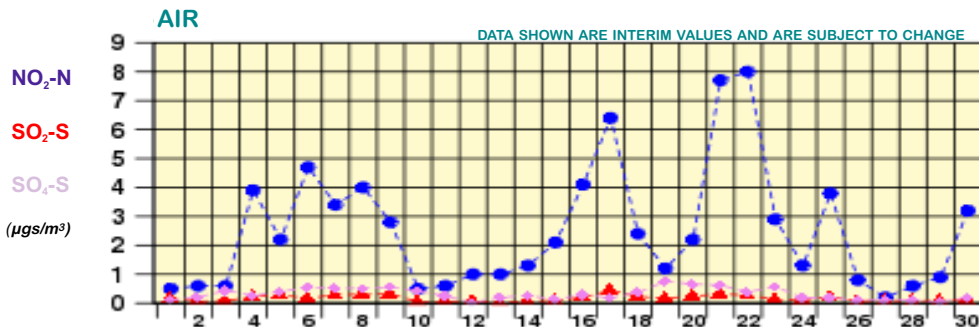
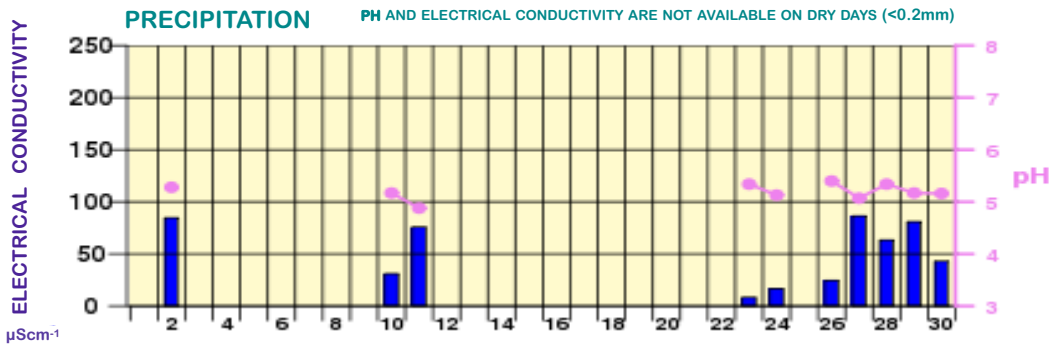
- < 5 m/s
- 5 - 10 m/s
- 10 - 25 m/s
- 25 - 50 m/s
- > 50 m/s

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.

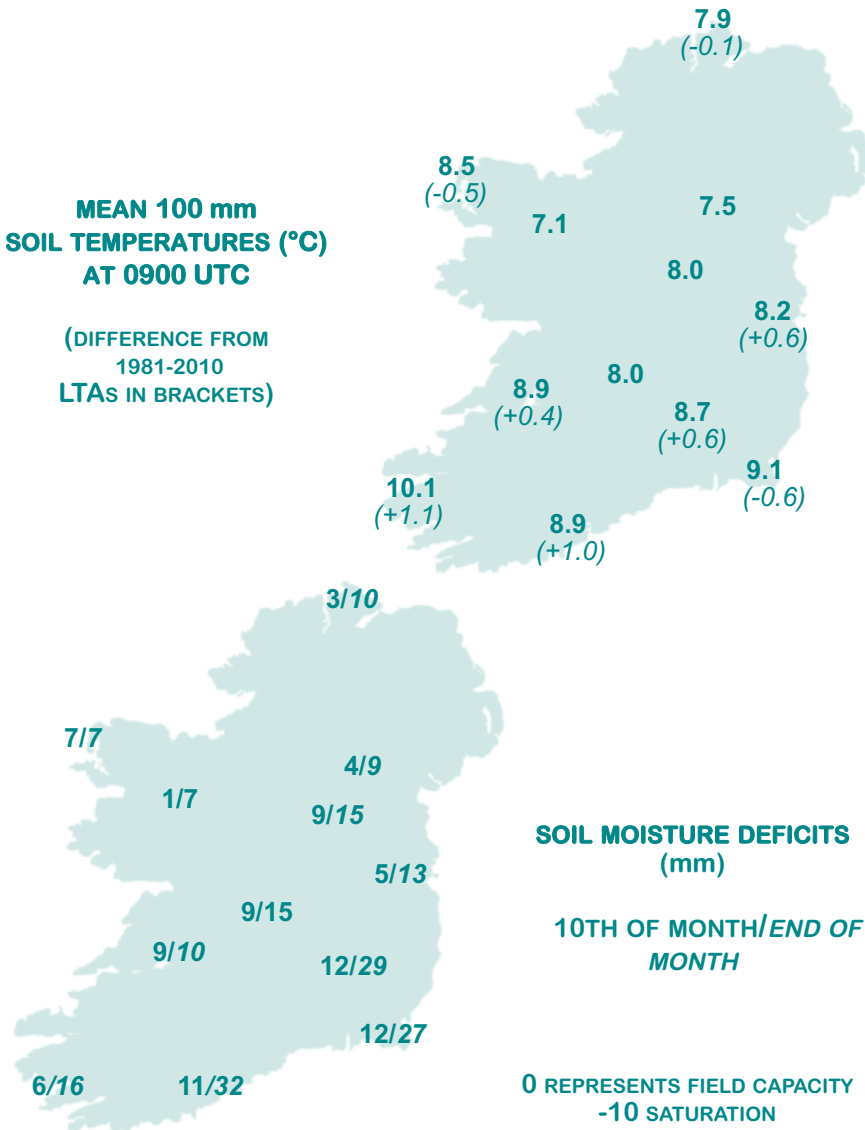
Conductivity measures the total ion activity in the rainfall, i.e. the higher the conductivity the greater the number of ions.

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



MEAN 100 mm SOIL TEMPERATURES (°C) AT 0900 UTC

(DIFFERENCE FROM 1981-2010 LTAs IN BRACKETS)



MEAN SOIL TEMPERATURES (°C) AT 0900 UTC

COUNTY/STATION	100 mm	200 mm	300 mm
<b>CO CARLOW</b>			
CARLOW (OAK PARK)	8.7	9.0	9.2
<b>CO. CAVAN</b>			
BALLYHAISE	7.5	8.2	9.2
<b>CO CLARE</b>			
SHANNON AIRPORT	8.9	9.4	10.2
CARRON	8.7		9.3
<b>CO CORK</b>			
ROCHE'S POINT	11.4	11.4	11.1
FERMOY (MOORE PARK)	9.2	9.6	9.9
CORK AIRPORT	8.9	9.4	9.9
SHERKIN ISLAND	9.3	9.4	10.3
BALINCURRIG (PEAFIELD)	8.7	9.2	10.4
<b>CO DONEGAL</b>			
MALIN HEAD	7.9	8.0	8.6
<b>CO DUBLIN</b>			
PHOENIX PARK	8.6	9.6	9.4
DUBLIN AIRPORT	7.6	8.3	8.8
CASEMENT AERODROME	8.2	8.5	9.0
<b>CO KERRY</b>			
VALENTIA OBSERVATORY	10.1	10.5	10.7
<b>CO KILKENNY</b>			
THOMASTOWN (MT JULIET)	9.9	9.8	10.6
<b>CO LIMERICK</b>			
MOUNT RUSSELL	8.7	9.8	
<b>CO MAYO</b>			
BELMULLET	8.5	9.4	10.2
STRAIDE	8.5		
KNOCK AIRPORT	7.1	8.0	8.2
<b>CO MEATH</b>			
WARRENSTOWN	7.8	8.6	9.7
DUNSANY (GRANGE)	7.4	8.6	9.2
<b>CO TIPPERARY</b>			
GURTEEN (AG COLLEGE)	8.0	8.5	8.8
FETHARD (PARSONSHILL)	8.6	9.7	
<b>CO WATERFORD</b>			
DUNGARVAN (CARRIGLEA)	9.8	10.1	
<b>CO WESTMEATH</b>			
MULLINGAR	8.0	8.7	9.3
<b>CO. WEXFORD</b>			
JOHNSTOWN CASTLE	9.1	8.9	9.4
JFK PARK	10.0	10.2	11.3
<b>CO WICKLOW</b>			
ASHFORD (CRONYKEERY)	8.9	9.1	9.5

10-DAY VALUES FOR SELECTED AGROMETEOROLOGICAL STATIONS		RAINFALL (mm)				TEMPERATURE (°C)												SUNSHINE (hours)			
STATION	PERIOD	AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	MEAN MAX.	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." °C	DATE	DAYS WITH GROUND FROST	MEAN 10CM AT 0900H	MEAN 30CM AT 0900H	TOTAL NO. OF HOURS	% OF AVERAGE
<b>CO CORK</b>	1-10	4.8	3	1		15.0	3.6	9.3		1.6	6	0	52	13	1.5	6	0	8.2	9.6	66.8	
BALLINCURRIG	11-20	3.2	2	2		14.1	4.3	9.2		-0.1	11	1	50	12	-0.3	11	1	9.1	10.6	71.9	
(PEAFIELD)	21-END	11.9	7	4		14.5	2.8	8.7		-0.8	28	3	49	13	-1.0	28	3	8.8	10.9	87.4	
	<b>MONTH</b>	<b>19.9</b>	<b>23</b>	<b>12</b>	<b>7</b>	<b>14.5</b>	<b>3.6</b>	<b>9.0</b>	<b>0.9</b>	<b>-0.8</b>	<b>28</b>	<b>4</b>	<b>150</b>	<b>38</b>	<b>-1.0</b>	<b>28</b>	<b>4</b>	<b>8.7</b>	<b>10.4</b>	<b>226.1</b>	<b>140</b>
<b>CO DONEGAL</b>	1-10	37.7	4	4		14.2	2.7	8.5		0.1	7	0	46	11	-3.0	7	6	-	-	-	
GLENTIES HATCHERY	11-20	21.7	6	3		14.0	2.8	8.4		-1.8	16	2	46	11	-5.0	16	6	-	-	-	
	21-END	42.8	6	5		13.4	1.6	7.5		-2.8	26	3	40	11	-5.7	26	7	-	-	-	
	<b>MONTH</b>	<b>102.2</b>	<b>105</b>	<b>16</b>	<b>12</b>	<b>13.9</b>	<b>2.4</b>	<b>8.1</b>	<b>-0.1</b>	<b>-2.8</b>	<b>26</b>	<b>5</b>	<b>131</b>	<b>33</b>	<b>-5.7</b>	<b>26</b>	<b>19</b>	-	-	-	
<b>CO KERRY</b>	1-10	20.6	3	2		16.2	4.7	10.5		1.5	7	0	63	19	-0.6	7	1	-	-	63.6	
ARDFERT	11-20	20.2	2	2		15.9	4.7	10.3		0.7	16	0	61	19	-1.0	19	3	-	-	77.4	
(LISCAHANE)	21-END	24.5	5	5		15.0	3.4	9.2		-1.1	26	1	53	17	-1.9	26	1	-	-	73.5	
	<b>MONTH</b>	<b>65.3</b>	<b>94</b>	<b>10</b>	<b>9</b>	<b>15.7</b>	<b>4.3</b>	<b>10.0</b>	<b>0.9</b>	<b>-1.1</b>	<b>26</b>	<b>1</b>	<b>176</b>	<b>54</b>	<b>-1.9</b>	<b>26</b>	<b>5</b>	-	-	<b>214.5</b>	<b>135</b>
<b>CO MONAGHAN</b>	1-10	22.0	3	3		14.9	3.2	9.1		-0.1	9	1	51	14	-3.1	10	6	-	-	-	
CARRICKMACROSS	11-20	16.5	3	2		12.6	3.5	8.1		-1.4	13	1	41	7	-3.5	13	5	-	-	-	
	21-END	21.2	6	5		13.2	1.2	7.2		-2.9	27	2	37	8	-5.8	26	9	-	-	-	
	<b>MONTH</b>	<b>59.7</b>	<b>93</b>	<b>12</b>	<b>10</b>	<b>13.6</b>	<b>2.6</b>	<b>8.1</b>	<b>-0.1</b>	<b>-2.9</b>	<b>27</b>	<b>4</b>	<b>129</b>	<b>30</b>	<b>-5.8</b>	<b>26</b>	<b>20</b>	-	-	-	
<b>CO WATERFORD</b>	1-10	3.6	4	2		14.4	4.2	9.3		-0.5	9	1	52	12	-3.3	9	2	-	9.7	63.9	
DUNGARVAN	11-20	4.2	3	2		13.7	5.1	9.4		1.9	16	0	52	10	-1.6	11	2	-	10.2	71.7	
(CARRIGLEA)	21-END	12.6	5	2		14.4	3.4	8.9		0.4	27	0	50	13	-3.5	21	7	-	10.4	93.3	
	<b>MONTH</b>	<b>20.4</b>	<b>25</b>	<b>12</b>	<b>6</b>	<b>14.2</b>	<b>4.2</b>	<b>9.2</b>	<b>0.2</b>	<b>-0.5</b>	<b>9</b>	<b>1</b>	<b>153</b>	<b>35</b>	<b>-3.5</b>	<b>21</b>	<b>11</b>	-	<b>10.1</b>	<b>228.9</b>	<b>144</b>
<b>CO WEXFORD</b>	1-10	3.8	2	2		14.4	4.7	9.5		0.8	1	0	53	12	-0.4	1	1	9.6	10.5	65.4	
JFK PARK	11-20	2.8	3	2		14.0	5.0	9.5		1.2	11	0	52	12	-1.2	19	2	10.0	11.3	68.1	
	21-END	24.8	6	5		13.7	3.3	8.5		0.3	28	0	46	11	-5.0	28	6	10.6	12.0	74.0	
	<b>MONTH</b>	<b>31.4</b>	<b>43</b>	<b>11</b>	<b>9</b>	<b>14.0</b>	<b>4.3</b>	<b>9.2</b>	<b>0.6</b>	<b>0.3</b>	<b>28</b>	<b>0</b>	<b>152</b>	<b>36</b>	<b>-5.0</b>	<b>28</b>	<b>9</b>	<b>10.0</b>	<b>11.3</b>	<b>207.5</b>	<b>131</b>
<b>CO WICKLOW</b>	1-10	12.8	3	2		13.6	3.3	8.5		-0.6	10	1	45	9	-7.6	10	6	8.4	9.1	57.5	
ASHFORD	11-20	7.7	3	3		13.0	3.9	8.5		0.7	13	0	43	9	-5.6	13	8	9.1	9.7	69.4	
(CRONYKEERY)	21-END	8.4	4	4		13.5	2.6	8.1		-1.6	27	1	42	10	-8.6	27	9	9.3	10.5	89.2	
	<b>MONTH</b>	<b>28.9</b>	<b>41</b>	<b>10</b>	<b>9</b>	<b>13.4</b>	<b>3.2</b>	<b>8.3</b>	<b>-0.3</b>	<b>-1.6</b>	<b>27</b>	<b>2</b>	<b>131</b>	<b>28</b>	<b>-8.6</b>	<b>27</b>	<b>23</b>	<b>8.9</b>	<b>9.8</b>	<b>216.1</b>	<b>143</b>

P.E. (PENMAN)		GLOBAL SOLAR RADIATION (MJ/m <sup>2</sup> )				MONTHLY EVAPORATION (mm) FROM CLASS A PAN			
STATION /COUNTY	TOTAL (mm)	STATION /COUNTY	1ST-10TH	11TH-20TH	21ST-END	TOTAL	COUNTY/ STATION	MONTHLY RAINFALL (mm)	MONTHLY EVAPORATION (mm)
<b>CO CARLOW</b>		<b>CO CARLOW</b>							
CARLOW (OAK PARK)	62	CARLOW (OAK PARK)*	139.87	169.55	181.73	491.15			
<b>CO CAVAN</b>		<b>CO CAVAN</b>							
BALLYHAISE	56	BALLYHAISE*	132.00	145.07	173.91	450.98			
<b>CO CLARE</b>		<b>CO CORK</b>							
SHANNON AIRPORT	68	ROCHE'S POINT*	150.57	164.47	170.08	485.12	<b>CO KERRY</b>		
<b>CO CORK</b>		<b>CO DONEGAL</b>					VALENTIA OBSERVATORY	54.4	78.5
CORK AIRPORT	57	MALIN HEAD*	130.83	165.66	156.03	452.52	<b>CO KERRY</b>		
<b>CO DONEGAL</b>		<b>CO DUBLIN</b>					NORTH KERRY LANDFILL	N/A	N/A
MALIN HEAD	52	DUBLIN AIRPORT*	134.62	154.90	185.33	474.85	<b>CO MAYO</b>		
<b>CO DUBLIN</b>		<b>CO KERRY</b>					NEWPORT (FURNACE)	121.4	67.9
DUBLIN AIRPORT	56	VALENTIA OBS.*	153.54	178.36	191.04	522.94	<b>CO OFFALY</b>		
CASEMENT AERODROME	58	<b>CO MAYO</b>					DERRYGREENAGH	59.4	56.7
<b>CO KERRY</b>		BELMULLET*	138.12	171.17	190.82	500.11	<b>CO WATERFORD</b>		
VALENTIA OBS.	69	<b>CO TIPPERARY</b>					DUNGARVAN (CARRIGLEA)	20.4	69.8
<b>CO MAYO</b>		GURTEEN (AG.COLLEGE)*	143.51	165.38	182.91	491.80	<b>CO WEXFORD</b>		
BELMULLET	62	<b>CO WESTMEATH</b>					JFK PARK	31.4	75.9
KNOCK AIRPORT	57	MULLINGAR*	130.19	154.02	175.22	459.43			
<b>CO TIPPERARY</b>		<b>CO WEXFORD</b>							
GURTEEN (AG.COLLEGE)	61	JOHNSTOWN CASTLE*	151.13	157.83	195.29	504.25			
<b>CO WESTMEATH</b>									
MULLINGAR	58								
<b>CO WEXFORD</b>									
JOHNSTOWN CASTLE	55								

GLOBAL SOLAR RADIATION VALUES FOR STATIONS MARKED  
\* ARE PROVISIONAL  
\* ARE FROM AUTOSOL INSTRUMENTS  
RAINFALL VALUES MARKED \* ARE ESTIMATED.

**Wednesday 1st:** Dry early in the morning, but rain and drizzle became widespread by mid-morning over most of the country. The afternoon continued wet over northern half with some fine weather further south. Rain and drizzle continued through the evening and night. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 21.0 mm at Keenagh Beg*  
*Temperature: Lowest max. 7.4°C at Finner, highest max. 13.5°C at Glengarriff (Innacullin).*  
*Lowest min. -1.4°C at Ballinamore, highest min. 7.0°C at Sherkin Island*  
*Sunshine: Nil at numerous locations to 2.0 hours at Dublin (Glasnevin)*

**Thursday 2nd:** It was a cloudy and wet day with rain and drizzle first affecting the West, Midlands and East during the morning. Scattered outbreaks of rain continued across the country during the evening and night. Winds were moderate, southerly.

*Rainfall: Nil at numerous locations to 30.6 mm at Lough Glencar*  
*Temperature: Lowest max. 8.9°C at Malin Head, highest max. 14.7°C at Cloyne (Lisanley).*  
*Lowest min. 3.0°C at Carrickmacross (Dunoge), highest min. 8.4°C at Sherkin Island, Cloyne (Lisanley)*  
*Sunshine: Nil at numerous locations to 1.0 hours at Dungarvan (Carriglea), Cork Apt*

**Friday 3rd:** Some light rain and drizzle overnight, heavier and more persistent in the North, cleared in the morning. A cool day with cloudy periods and sunny spells in parts. Winds were moderate to fresh, northwesterly.

*Rainfall: Nil at numerous locations to 9.8 mm at Ballymote (Lavagh)*  
*Temperature: Lowest max. 8.7°C at Knock Apt, highest max. 14.9°C at Glengarriff (Innacullin). Lowest min. 4.5°C at Edenderry (Ballinla), highest min. 9.1°C at Waterford (Tycor)*  
*Sunshine: 0.1 hours at Straide to 9.8 hours at Sherkin Island*

**Saturday 4th:** Some patchy drizzle overnight, before turning mainly dry and mild with cloudy periods and sunny spells. Some further drizzle in the Northwest in the morning. The night was also a mixture of cloudy and clear spells. Some light mist or fog, and ground frost in some areas. Winds were light, northwesterly.

*Rainfall: Nil at numerous locations to 2.1 mm at Roundstone*  
*Temperature: Lowest max. 10.2°C at Malin Head, highest max. 17.6°C at Maam Valley.*  
*Lowest min. 2.5°C at Athenry, highest min. 8.5°C at Belmullet 8.5°C at Dooks*  
*Sunshine: Nil at Belmullet to 7.5 hours at Arklow (Ballyrichard Hse)*

**Sunday 5th:** Variations in cloud cover brought fog patches and low temperatures before dawn. The cloud broke up as the day progressed so most places reported spells of sunshine with temperatures generally reaching the mid-teens. Winds were light, east to southeast.

*Rainfall: Nil at numerous locations to 0.3 mm at Oak Park, Ballyroan (Oatlands)*  
*Temperature: Lowest max. 10.0°C at Cahore (Kilmichael Hse), highest max. 17.6°C at Glenties Hatchery. Lowest min. 0.6°C at Mullagh (Carrollagan), highest min. 8.6°C at Delphi Lodge*  
*Sunshine: Nil at Arklow (Ballyrichard Hse) to 11.6 hours at Ardfert (Liscahane)*

**Monday 6th:** Clear skies and calm conditions meant that it was chilly during the early hours with fog patches in many places, burning away once the sun rose. Temperatures generally rose to the mid-to-high teens with widespread, nearly uninterrupted sunshine in most areas. Winds were light, variable in direction.

*Rainfall: Nil at numerous locations to 1.8 mm at Tinahely (Mucklagh)*  
*Temperature: Lowest max. 8.6°C at Roches Pt, highest max. 19.0°C at Castleconnell. Lowest min. -0.5°C at Straide, highest min. 7.1°C at Belmullet*  
*Sunshine: 2.8 hours at Sherkin Island to 11.8 hours at Dublin Apt*

**Tuesday 7th:** Cold overnight with frost and fog inland. Any fog cleared during the morning and the day was dry and sunny, warm inland but cooler near coasts. Winds were light, variable in direction.

*Rainfall: Nil at numerous locations to 3.0 mm at Tinahely (Mucklagh)*  
*Temperature: Lowest max. 12.0°C at Malin Head, highest max. 20.0°C at Killarney (Muckross Hse), Castleconnell, Cashel (Ballydoyle Hse). Lowest min. -0.5°C at Thomastown (Mt Juliet), highest min. 6.3°C at Mt Russell*  
*Sunshine: 9.5 hours at Dublin (Glasnevin), Edenderry (Ballinla) to 12.2 hours at Cork Apt*

**Wednesday 8th:** Cold overnight with frost and fog inland. Any fog cleared during the morning and the day was dry and sunny, warm inland but cool near south and east coasts. Winds were light, south to southeast.

*Rainfall: Nil at numerous locations to 0.4 mm at Macroom (Renaniree)*  
*Temperature: Lowest max. 11.7°C at Sherkin Island, Roches Pt, highest max. 19.6°C at Ardfert (Liscahane), Listowel (Bunaghara). Lowest min. -0.6°C at Markree, highest min. 7.4°C at Sherkin Island*  
*Sunshine: 8.0 hours at Cork Apt to 12.0 hours at Dublin Apt*

**Thursday 9th:** Dry overnight with a widespread mist and patchy fog. Widespread ground frost also. It was dry and sunny for the day, with some haze in places, and patches of fog along north coasts. Winds were light, southeasterly.

*Rainfall: Nil at numerous locations to 0.9 mm at Portlaw (Mayfield)*  
*Temperature: Lowest max. 11.9°C at Roches Pt, highest max. 20.5°C at Dooks. Lowest min. -1.5°C at Thomastown (Mt Juliet), highest min. 6.3°C at Roches Pt*  
*Sunshine: 8.6 hours at Dungarvan (Carriglea) to 12.5 hours at Dublin Apt*

**Friday 10th:** It was another dry day with good spells of sunshine, although temperatures were not as high as recent days. A band of rain moved into the West during the evening and spread to affect all parts of the country during the night. Winds were moderate, south to southwest.

*Rainfall: Nil at numerous locations to 21.1 mm at Cloghane*  
*Temperature: Lowest max. 10.8°C at Johnstown, highest max. 19.0°C at Cavan (Drumconnick). Lowest min. -0.9°C at Mt Dillon, highest min. 8.3°C at Belmullet*  
*Sunshine: 0.7 hours at Dungarvan (Carriglea), Clonroche (Knoxtown) to 9.5 hours at Newport (Furnace)*

**Saturday 11th:** Some frost overnight, before rain arrived in the West. This cleared to showers of hail and rain, some with thunder, mainly in the North and West. Some good spells of sunshine but temperatures were low for the time of year. Winds were moderate, southwesterly.

*Rainfall: Nil at numerous locations to 38.8 mm at Killee (Moveen)*  
*Temperature: Lowest max. 8.3°C at Knock Apt, highest max. 15.0°C at Cahore (Kilmichael Hse). Lowest min. -0.1°C at Ballincurrig (Peafield), highest min. 6.4°C at Cloyne (Lisanley)*  
*Sunshine: 5.1 hours at Belmullet, Knock Apt to 11.1 hours at Arklow (Ballyrichard Hse)*

**Sunday 12th:** Some heavy and continuous rain and drizzle from the West, changed to showers. Some showers with hail in northern parts, becoming more scattered by the mid-morning for most parts. The remainder was cloudy, with some good spells of sunshine in places, and isolated showers in the North and West. Winds were moderate to fresh, variable in direction.

*Rainfall: Nil at numerous locations to 9.1 mm at Dereen*  
*Temperature: Lowest max. 9.7°C at Malin Head, highest max. 14.3°C at Mallow (Spa Hse).*  
*Lowest min. 0.3°C at Ballinamore, highest min. 8.3°C at Sherkin Island*  
*Sunshine: Nil at numerous locations to 9.8 hours at Ballyshannon (Cathleen's Fall)*

**Monday 13th:** Cloud increased from the Southwest bringing patchy rain, drizzle and mist. The rain and drizzle persisted in the North and West for short while longer before turning into a mainly dry, cloudy day with some bright spells. Sunshine best in the Southeast, mistier on other coasts. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 6.9 mm at Bruckless*  
*Temperature: Lowest max. 11.1°C at Knock Apt, highest max. 17.3°C at Ardfert (Liscahane).*  
*Lowest min. -1.8°C at Markree, highest min. 8.3°C at Sherkin Island*  
*Sunshine: Nil at numerous locations to 4.5 hours at Ardfert (Liscahane)*

**Tuesday 14th:** There was some rainfall in northern areas, mostly late in the day, but most southern areas stayed dry. There was a lot of sunshine in the South which led to temperatures in the high teens. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 15.5 mm at Drummin (Tawnyard)*  
*Temperature: Lowest max. 10.2°C at Belderrig, highest max. 19.5°C at Castleconnell.*  
*Lowest min. 3.5°C at Clonroche (Knoxtown), highest min. 11.2°C at Dublin (Glasnevin)*  
*Sunshine: Nil at numerous locations to 11.6 hours at Ballincurrig (Peafield)*

**Wednesday 15th:** A narrow band of rain passed southeastwards across the country overnight, breaking up in the Southeast. The rest of the day was dry. There was prolonged sunshine in the North and West, but it was cloudier further East and South. Winds were light to moderate, north to northwest.

*Rainfall: Nil at numerous locations to 5.4 mm at Pettigo (Lough Derg)*  
*Temperature: Lowest max. 9.0°C at Belderrig, highest max. 18.2°C at Springfield Castle.*  
*Lowest min. -0.6°C at Thomastown (Mt Juliet), highest min. 8.8°C at Sherkin Island*  
*Sunshine: 0.1 hours at Arklow (Ballyrichard Hse) to 9.3 hours at Ballyshannon (Cathleen's Fall)*

**Thursday 16th:** It was a cold start to the day with a touch of frost in some areas. The day was dry and mild in most areas with good sunny spells. It was a few degrees cooler on the North and East coasts due to onshore breezes. It became cool again later in the evening and after dark. Winds were light, northerly.

*Rainfall: Nil at numerous locations to 1.6 mm at Ballyvourney (Clounycarty)*  
*Temperature: Lowest max. 9.1°C at Belderrig, highest max. 18.9°C at Glengarriff (Innacullin).*  
*Lowest min. -1.8°C at Glenties Hatchery, highest min. 6.4°C at Dublin (Merrion Square)*  
*Sunshine: 6.6 hours at Knock Apt to 12.8 hours at Arklow (Ballyrichard Hse)*

**Friday 17th:** The day was dry and sunny, with mist in parts during the morning. Cloud persisted in some southern parts. The evening and night continued mainly dry with sunny/clear spells away from the south coast. Some rain and drizzle developed along the southeast and south coast late in the day. Winds were light, northerly.

*Rainfall: Nil at numerous locations to 5.4 mm at Ashford (Cronykeery)*  
*Temperature: Lowest max. 10.3°C at Belderrig, highest max. 19.8°C at Glengarriff (Innacullin).*  
*Lowest min. -1.6°C at Dublin Apt, highest min. 7.6°C at Sherkin Island*  
*Sunshine: Nil at Arklow (Ballyrichard Hse) to 12.4 hours at Belmullet*

**Saturday 18th:** It was another dry day, there was little to no cloud and good sunshine throughout the day. It continued dry and clear into the night. Winds were moderate, north to northeast.

*Rainfall: Nil at numerous locations to 0.2 mm at Glenealy (Kilmacurragh Park)*  
*Temperature: Lowest max. 10.1°C at Dublin (Merrion Square), highest max. 17.8°C at Ardfert (Liscahane). Lowest min. 0.8°C at Ardee (Boharnamoe), highest min. 9.5°C at Sherkin Island*  
*Sunshine: 5.2 hours at Sherkin Island to 13.3 hours at Ballyshannon (Cathleen's Fall)*

**Sunday 19th:** Some mist or fog patches, and ground frost overnight but the mainly dry settled conditions remained. Plenty of sunshine in the beginning but cloud was built through the afternoon. It was warmest in the West but coolest in the East. Winds were light, north to northeast.

*Rainfall: Nil at numerous locations to 6.0 mm at Bloody Foreland*  
*Temperature: Lowest max. 10.0°C at Dun Laoghaire, highest max. 19.4°C at Dooks. Lowest min. -1.8°C at Markree, highest min. 9.5°C at Valentia Obs*  
*Sunshine: 6.3 hours at Casement to 13.2 hours at Shannon Apt*

**Monday 20th:** Cold overnight, some frost in the south. Some light rain in the north at first, but overall a dry day with good sunny spells in most places and mild temperatures, warmest in the West but cooler in the rest of the country. Winds were light, variable in direction.

*Rainfall: Nil at numerous locations to 4.7 mm at Tinahely (Mucklagh)*  
*Temperature: Lowest max. 10.9°C at Malin Head, highest max. 16.9°C at Newport (Furnace).*  
*Lowest min. 0.2°C at Horseleap, highest min. 8.4°C at Valentia Obs*  
*Sunshine: 4.8 hours at Ballincurrig (Peafield) to 12.8 hours at Arklow (Ballyrichard Hse)*

**Tuesday 21st:** Cold overnight with some mist or fog, and ground frost. The settled conditions continued with good sunshine and clear skies in most parts with high temperatures especially in the West and inland. Coolest in the East due to sea breezes. Winds were light, northeasterly.

*Rainfall: Nil at numerous locations to 1.3 mm at Tinahely (Mucklagh)*  
*Temperature: Lowest max. 11.4°C at Belderrig, highest max. 21.0°C at Ardfert (Liscahane).*  
*Lowest min. -1.7°C at Thomastown (Mt Juliet), highest min. 7.4°C at Arklow (Ballyrichard Hse)*  
*Sunshine: 11.3 hours at JFK Park to 13.9 hours at Dublin Apt*

**Wednesday 22nd:** Settled conditions continued after a cold overnight. Some lingering fog in northern Ulster with no sunshine but good warm sunny spells elsewhere. Warmest again in the West and Midlands, cooler in the East. Winds were light, east to northeast.

*Rainfall: Nil at numerous locations to 1.3 mm at Clonroche (Knoxtown)*  
*Temperature: Lowest max. 9.8°C at Malin Head, highest max. 21.4°C at Ardfert (Liscahane).*  
*Lowest min. -0.4°C at Dunsany, highest min. 8.8°C at Roches Pt*  
*Sunshine: 10.2 hours at JFK Park to 13.3 hours at Dublin Apt*

**Thursday 23rd:** Cool overnight with ground frost and some fog, particularly in the North. Most of the country then had a warm sunny day, the exception was the north coast where low cloud persisted, keeping temperatures low. Winds were light, easterly.

*Rainfall: Nil at numerous locations to 4.8 mm at Skibbereen (Water Treatment Plant)*  
*Temperature: Lowest max. 8.8°C at Malin Head, highest max. 21.5°C at Ardfert (Liscahane).*  
*Dooks. Lowest min. -0.5°C at Mt Dillon, highest min. 9.0°C at Roches Pt*  
*Sunshine: 8.4 hours at Sherkin Island to 13.8 hours at Belmullet*

**Friday 24th:** A cluster of heavy thundery showers developed in north Munster in the afternoon, crossing eastwards into Leinster by evening. Winds were light, variable in direction.

*Rainfall: Nil at numerous locations to 30.5 mm at Derryhillagh*  
*Temperature: Lowest max. 8.9°C at Malin Head, highest max. 17.6°C at Adare Manor. Lowest min. 0.5°C at Dublin Apt, highest min. 9.7°C at Valentia Obs*  
*Sunshine: Nil at Newport (Furnace) to 4.8 hours at Dungarvan (Carriglea)*

**Saturday 25th:** Showers became widespread, but remained dry in the South. Rain cleared most areas during the afternoon with some good sunshine developing. Dry over most areas for evening and night with good sunny/clear periods. Ground frost set in, in most areas after dark. Winds were moderate, variable in direction.

*Rainfall: Nil at numerous locations to 18.8 mm at Strokestown (Carrowclogher)*  
*Temperature: Lowest max. 8.0°C at Slieve Bloom Mtns (Nealstown), highest max. 16.8°C at Glengarriff (Innacullin). Lowest min. 2.0°C at Ballycro (Knockmoyleen), highest min. 10.4°C at Sherkin Island, Glengarriff (Innacullin)*  
*Sunshine: 0.4 hours at Valentia Obs to 11.2 hours at Belmullet*

**Sunday 26th:** The morning was clear and sunny with frost clearing quickly. It was a mostly dry morning but showers of rain and hail in the North and West became more widespread during the afternoon. Skies remained clear into the evening and during the night temperatures dropped again. Winds were light, north to northwest.

*Rainfall: Nil at numerous locations to 9.5 mm at Brittas (Glenaraneen)*  
*Temperature: Lowest max. 8.2°C at Belderrig, highest max. 15.1°C at Glengarriff (Innacullin).*  
*Lowest min. -3.6°C at Casement, highest min. 7.0°C at Dungarvan (Carriglea)*  
*Sunshine: 6.6 hours at JFK Park to 13.1 hours at Cork Apt*

**Monday 27th:** Widespread frost overnight. A lot of sunshine to start, but cloud increased during the day with showers spreading from the West. Further showers moved eastwards during the late afternoon and evening as winds increased in the North and West. Temperatures dropped again after nightfall with clear spells developing and some further scattered showers. Winds were moderate to fresh, westerly.

*Rainfall: Nil at numerous locations to 20.5 mm at Rossinver Organic Centre*  
*Temperature: Lowest max. 7.3°C at Glenties Hatchery, highest max. 12.5°C at Cahore (Kilmichael Hse). Lowest min. -4.0°C at Mullingar, highest min. 4.8°C at Craggaunowen*  
*Sunshine: 4.2 hours at Ballyshannon (Cathleen's Fall) to 10.2 hours at Arklow (Ballyrichard Hse)*

**Tuesday 28th:** Some showers in the western half of the country overnight became more widespread during the day affecting all areas; some thundery and of hail. A band of more persistent rain in the afternoon and evening clearing to isolated showers. Winds were moderate to fresh, southwesterly.

*Rainfall: 0.7 mm at Bunclody (Corragh) to 26.7 mm at Maam Valley*  
*Temperature: Lowest max. 7.2°C at Knock Apt, highest max. 14.0°C at Cahore (Kilmichael Hse). Lowest min. -1.6°C at Thomastown (Mt Juliet), highest min. 5.3°C at Sherkin Island*  
*Sunshine: 0.9 hours at Knock Apt to 9.9 hours at Dublin (Glasnevin)*

**Wednesday 29th:** A cool and breezy overnight with some heavy hail and rain showers and isolated thunderstorms. The showers becoming more widespread through the day affecting all areas, with thunder becoming more intense in the afternoon. Winds were moderate to fresh, southwesterly.

*Rainfall: Nil at numerous locations to 19.4 mm at Creeslough (Brockagh)*  
*Temperature: Lowest max. 8.4°C at Knock Apt, highest max. 15.0°C at Cahore (Kilmichael Hse). Lowest min. -0.5°C at Ballincurrig (Peafield), highest min. 6.2°C at Sherkin Island*  
*Sunshine: 3.2 hours at Ballyshannon (Cathleen's Fall) to 11.7 hours at Dungarvan (Carriglea)*

**Thursday 30th:** Some isolated showers overnight in the South and West becoming more scattered in the middle of the country. The showers dying out by dark with some ground frost overnight. Apart from showers it was a cool dry day with good sunny spells for most parts. Winds were light to moderate, northerly.

*Rainfall: Nil at numerous locations to 5.3 mm at Ballymote (Lavagh), Ballincurrig (Peafield)*  
*Temperature: Lowest max. 10.1°C at Malin Head, highest max. 16.9°C at Castleconnell.*  
*Lowest min. -0.6°C at Adare Manor, highest min. 7.2°C at Sherkin Island*  
*Sunshine: 5.8 hours at Ardfert (Liscahane) to 13.1 hours at Dublin Apt*

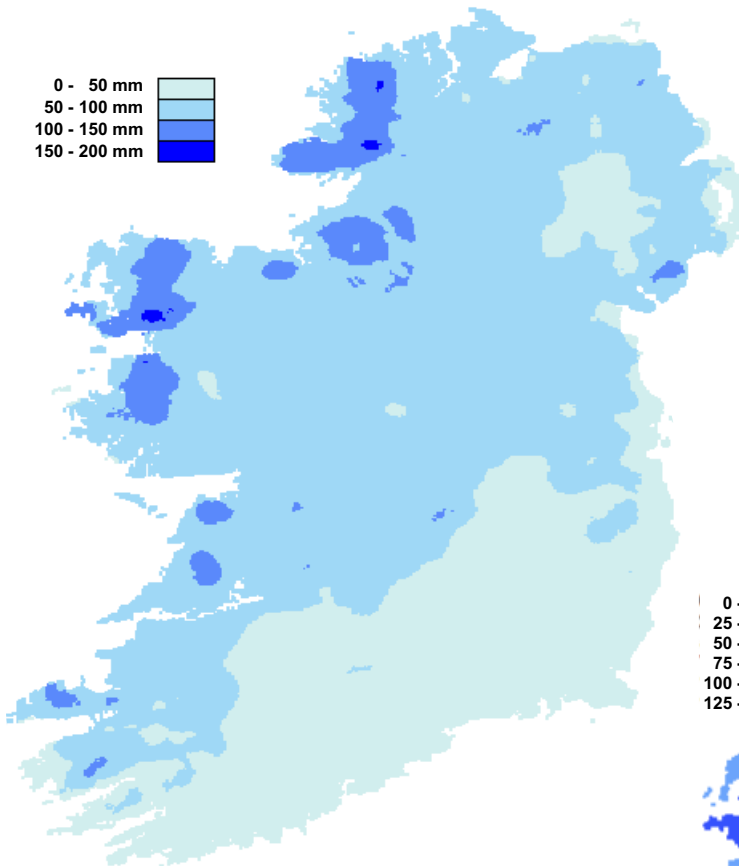
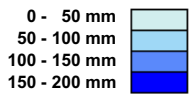
**BELOW LTA RAINFALL IN MOST PLACES; DRIEST IN PARTS OF THE SOUTH**

Percentage of Long-Term Average (LTA) rainfall values were mainly below average with above LTA rainfall totals mainly recorded in parts of the Northwest, Southwest and West. The month's lowest percentage of LTA and month's lowest rainfall total was at Bannow, Co Wexford with 12% and 7.0 mm respectively, its driest April since the station opened in 1997. It attributed this low monthly total 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 3rd and the 27th. A few other isolated stations in southern coastal counties also reported 'dry spells' of varying lengths during this period. Ballingearry (Tooreenaneen) in the Shehy Mountains, Co Cork reported its driest April since the station opened in 1948 with 24.9 mm (20% of LTA) with a few other stations in the counties of Cork, Tipperary, Wexford and Waterford reporting their driest April in 20 to 48 years. The month's highest percentage of LTA was 137% recorded at Inagh (Mt Callan), Co Clare with 124.3 mm while the month's highest rainfall total was at Drummin (Tawnyard), Co Mayo with 147.5mm. A few stations located in Sligo, Donegal and Clare had their wettest April since 2009. The wettest days during April were mainly the 11th, 25th and 28th with the month's wettest day reported on the 11th with 38.8 mm at Kilkee (Moveen), Co Clare. Another station in Clare at Mullagh (Carrowlagan), reported its wettest April day since the station opened in 1984 with 37.0 mm (on the 11th), nearly half of its monthly total of 77.9 mm (109% of LTA).

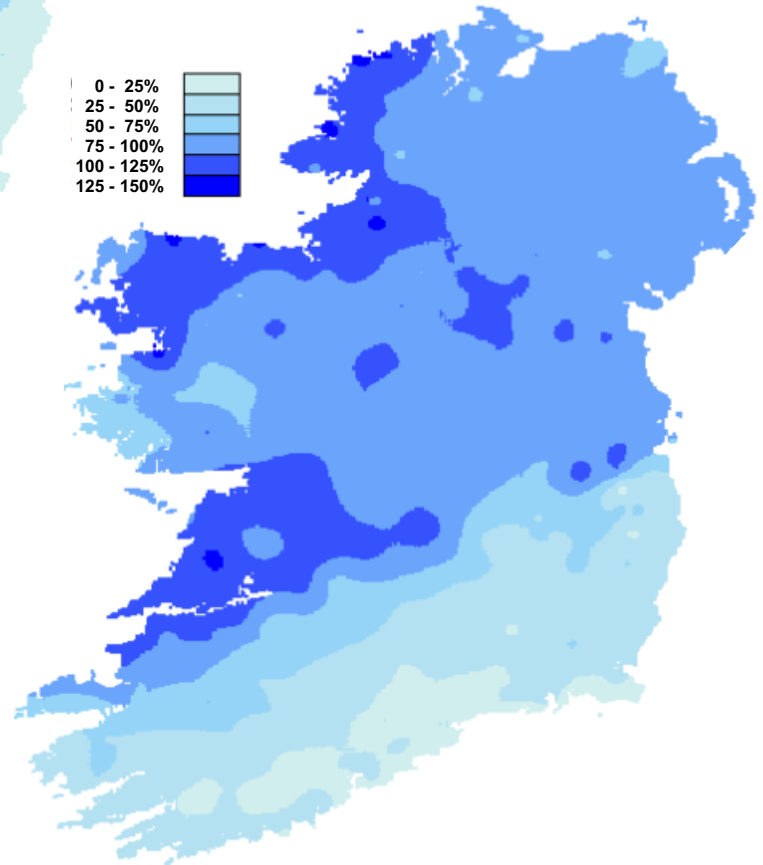
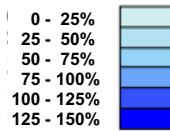
COUNTY/ STATION	TOTAL AMOUNT (mm)	% OF 1981-2010 AVERAGE	MOST IN A DAY / DATE		NUMBER OF RAINDAYS WETDAYS (>0.2mm) (>1mm)	
<b>CO CARLOW</b>						
CARLOW (OAK PARK)	26.3	47	4.8	2	12	9
<b>CO CAVAN</b>						
BALLYHAISE	71.0	104	16.6	11	12	10
<b>CO CLARE</b>						
CARRON	94.8	106	25.5	11	14	12
SHANNON AIRPORT	63.4	107	18.6	11	12	8
<b>CO CORK</b>						
BALLINCURRIG (PEAFIELD)	19.9	23	5.3	30	12	7
CORK AIRPORT	17.0	22	3.6	25	12	7
FERMOY (MOORE PARK)	18.4	28	4.8	28	12	7
ROCHE'S POINT	11.8	20	3.8*	25	9*	3*
SHERKIN ISLAND	19.1	26	4.3	23	13	5
<b>CO DONEGAL</b>						
BALLYSHANNON (CATHLEEN'S FALL)	91.8	130	14.1	2	12	9
GLENTIES HATCHERY	102.2	105	17.1	2	16	12
MALIN HEAD	61.1	94	12.1	27	14	10
<b>CO DUBLIN</b>						
CASEMENT AERODROME	56.2	108	10.2	24	11	10
DUBLIN (MERRION SQUARE)	40.9	83	7.8	1	12	10
DUBLIN AIRPORT	43.9	81	8.1	1	11	10
DUBLIN (PHOENIX PARK)	52.0	99	8.5	1	12	10
<b>CO GALWAY</b>						
MAAM VALLEY	124.8	79	26.7	28	13	12
<b>CO KERRY</b>						
ARDFERT (LISCAHANE)	65.3	94	18.6	11	10	9
VALENTIA OBSERVATORY	54.4	56	12.6	11	13	11
<b>CO KILKENNY</b>						
THOMASTOWN (MT. JULIET)	15.0	23	4.0	25	10	5
<b>CO LIMERICK</b>						
MOUNT RUSSELL	38.7	46	8.0	28	11	8
<b>CO MAYO</b>						
BELMULLET	62.7	87	12.3	28	13	10
DELPHI LODGE	121.6		30.5	2	13	11
KNOCK AIRPORT	86.7	106	13.4	28	13	12
STRAIDE	72.7	96	14.1	28	11	11
<b>CO MEATH</b>						
WARRENTOWN	54.5	91	14.1	11	11	10
<b>CO MONAGHAN</b>						
CARRICKMACROSS (DUNOGE)	59.7	93	13.6	11	12	10
<b>CO OFFALY</b>						
DERRYGREENAGH	59.4	96	13.0	11	10	8
<b>CO ROSCOMMON</b>						
MOUNTDILLON	66.6	100	17.5	11	13	10
<b>CO SLIGO</b>						
ARDTARMON	74.9	116	13.3*	28	13*	9*
<b>CO TIPPERARY</b>						
FETHARD (PARSONSHILL)	20.9	33	4.2	28	10	8
GURTEEN (AG.COLLEGE)	57.6	96	17.7	11	11	9
<b>CO WATERFORD</b>						
DUNGARVAN (CARRIGLEA)	20.4	25	6.7	25	12	6
WATERFORD (TYCOR)	17.5	25	5.6*	25	10*	7*
<b>CO WESTMEATH</b>						
MULLINGAR	64.2	97	20.6	11	12	9
<b>CO WEXFORD</b>						
CLONROCHE (KNOXTOWN)	42.1		12.9*	25	12*	9*
JOHNSTOWN CASTLE	21.9	31	3.6	29	12	9
<b>CO WICKLOW</b>						
ASHFORD (CRONYKEERY)	28.9	41	7.1	1	10	9

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

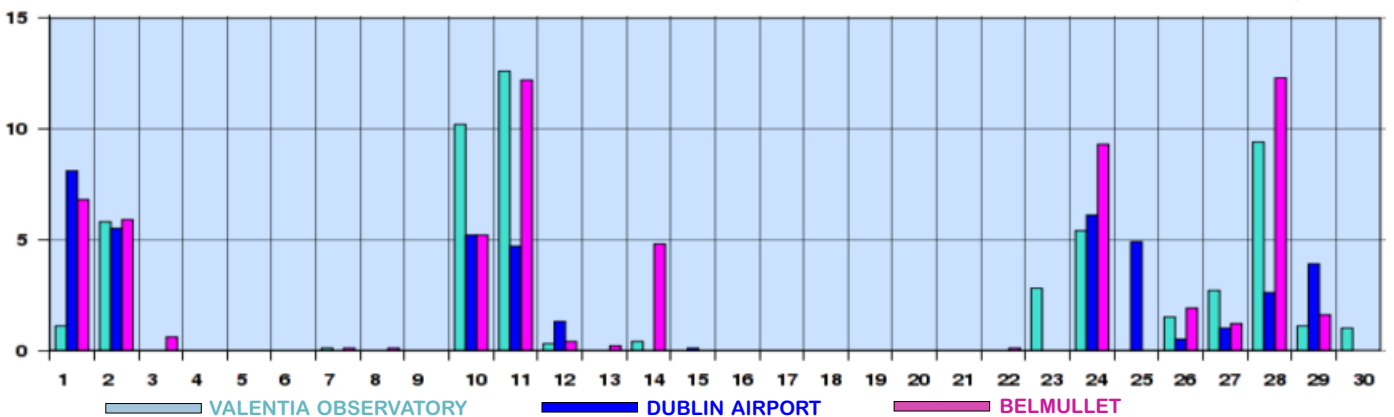
TOTAL RAINFALL (mm)



PERCENTAGE OF NORMAL RAINFALL  
(1981-2010 NORMALS)



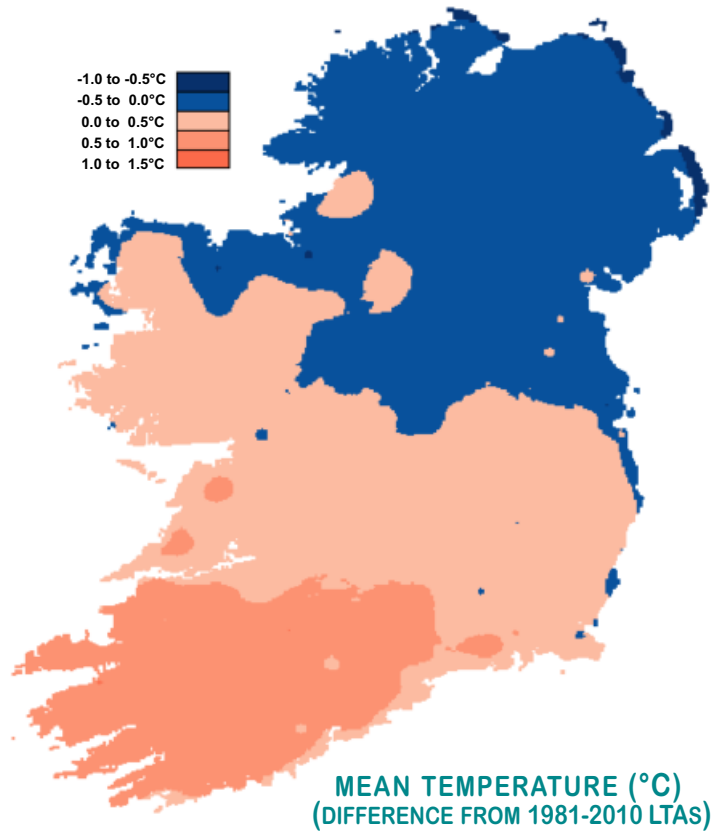
DAILY 0901-0900hr RAINFALL VALUES (mm)



**MEAN AIR TEMPERATURES VARIABLE ACROSS THE COUNTRY; HIGHEST IN SOUTH**

Monthly mean air temperatures were below average in mainly the northern half of the country, with mean temperatures over 1°C above their Long-Term Average (LTA) in the Southwest. Differences from LTA ranged from -1°C at Markree, Co Sligo with a monthly mean of 7.6°C to 1.1°C at Mountrussell, Co Limerick with a mean temperature of 9.3°C. Mean temperatures ranged from 7.6°C at both Dublin Airport (difference from LTA -0.7°C) and at Markree to 9.7°C at Shannon Airport, Co Clare (difference from LTA 0.2°C).

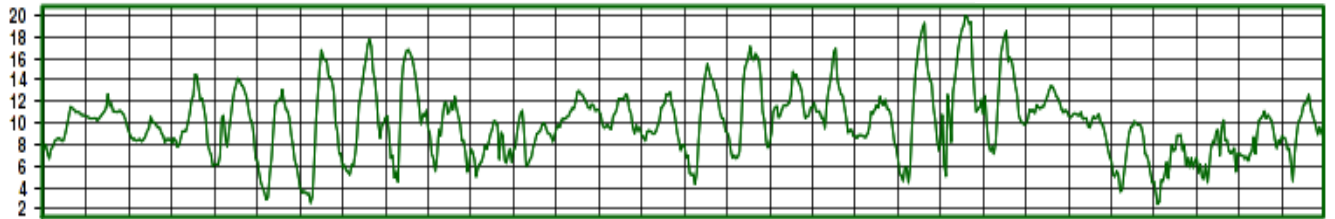
Monthly highest maximum temperatures were mainly recorded on the 7th, 22nd and 23rd ranging from 15.3°C at Roche’s Point, Co Cork on the 21st to 21.5°C reported at both Ardfert (Liscahane), Co Kerry and Dooks, Co Kerry on the 23rd. Monthly lowest air and grass minimum temperatures were mainly recorded between the 26th and 28th with lowest air minima ranging from -4.0°C at Mullingar, Co Westmeath to 3.4°C at Sherkin Island, both recorded on the 27th. Over a quarter of stations scattered around the country reported no days with air frost with the number of days reported at remaining station as much as 11 (Markree, Co Sligo). Lowest



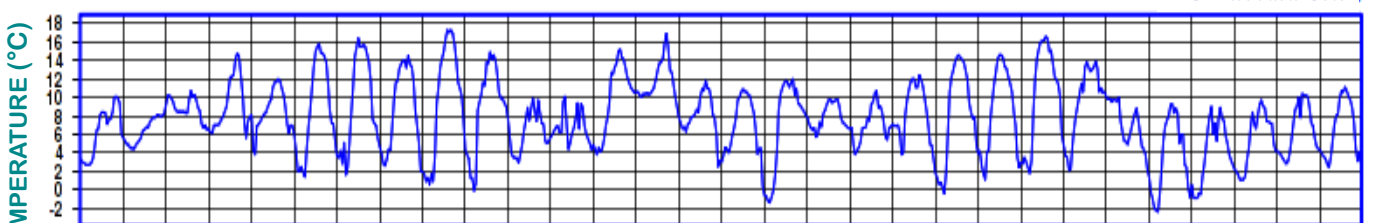
grass minimum temperatures ranged from -9.4°C (on the 26th) at Straide, Co Mayo to -0.4°C at Roche’s Point (on the 7th). All stations reported at least one day with ground frost with up to 24 days reported at Offaly stations of Horseleap and Edenderry (Ballinla) and at Thomastown (Mt Juliet), Co Kilkenny.

**HOURLY TEMPERATURES APRIL 2015**

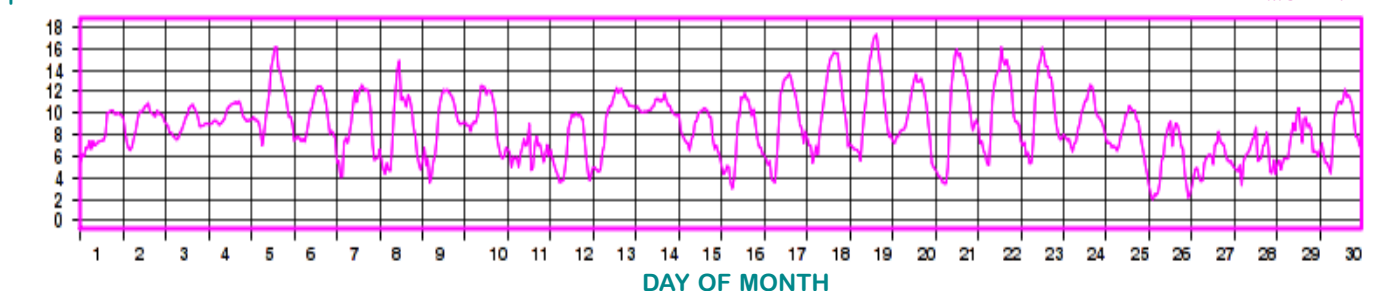
VALENTIA OBSERVATORY



DUBLIN AIRPORT



BELMULLET



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)	14.1	3.7	8.9	0.0	18.9 7	-0.4 27	-6.2 27	2	16	
<b>CO CAVAN</b>										
BALLYHAISE	13.1	2.5	7.8	-0.5	18.4 23	-2.1 27	-6.3 26	6	16	
<b>CO CLARE</b>										
CARRON	13.7	4.5	9.1	0.9	18.8 22	0.9 27	-1.6 13 27	0	7	
SHANNON AIRPORT	14.9	4.5	9.7	0.2	20.0 22	-0.3 26	-0.8 6	1	5	
<b>CO CORK</b>										
BALLINCURRIG (PEAFIELD)	14.5	3.6	9.0	0.9	18.7 7	-0.8 28	-1.0 28	4	4	
CORK AIRPORT	12.8	4.8	8.8	0.4	16.4 7	0.5 29	-4.5 29	0	10	
FERMOY (MOORE PARK)	14.2	3.2	8.7	0.3	18.2 7	-1.8 27	-2.6 28	4	12	
ROCHE'S POINT	12.4	6.4	9.4	0.3	15.3 21	2.7 26	-0.4 7	0	5	
SHERKIN ISLAND	12.3	6.8	9.5	0.0	15.7 7	3.4 27	-1.4 27	0	2	
<b>CO DONEGAL</b>										
BALLYSHANNON (CATHLEEN'S FALL)	13.4	4.4	8.9	0.5	18.6 22	-0.3 27		1		
GLENTIES HATCHERY	13.9	2.4	8.1	-0.1	21.1 22	-2.8 26	-5.7 26	5	19	
MALIN HEAD	10.7	4.7	7.7	-0.6	17.6 8	-0.7 27	-4.2 27	1	10	
<b>CO DUBLIN</b>										
CASEMENT AERODROME	13.3	3.2	8.3	0.1	19.1 23	-3.6 26	-6.6 26	2	15	
DUBLIN (MERRION SQUARE)	12.8	5.5	9.2	-0.2	16.9 9	1.9 26		0		
DUBLIN AIRPORT	13.0	2.3	7.6	-0.7	18.1 9	-2.7 26	-7.0 26 27	5	16	
DUBLIN (PHOENIX PARK)	13.8	3.5	8.7	0.2	18.9 8	-1.9 26	-4.5 26 27	2	20	
<b>CO GALWAY</b>										
MAAM VALLEY	14.3	4.1	9.2	0.3	19.6 23	0.5 27	-2.7 13	0	8	
<b>CO KERRY</b>										
ARDFERT (LISCAHANE)	15.7	4.3	10.0	0.9	21.5 23	-1.1 26	-1.9 26	1	5	
VALENTIA OBSERVATORY	14.1	6.0	10.0	0.6	20.2 22	2.0 27	-2.3 26	0	6	
<b>CO KILKENNY</b>										
THOMASTOWN (MT. JULIET)	14.4	2.0	8.2	-0.3	19.1 7	-3.4 26	-6.9 26	9	24	
<b>CO LIMERICK</b>										
MOUNTRUSSELL	14.1	4.5	9.3	1.1	18.2 22	-0.7 26	-5.7 26	1	14	
<b>CO MAYO</b>										
BELMULLET	12.7	5.0	8.9	-0.1	17.8 19	1.6 27	-0.9 26	0	6	
DELPHI LODGE	14.3	4.4	9.4	0.3	19.7 23	-0.6 26	-7.2 26	1	17	
KNOCK AIRPORT	12.7	3.5	8.1	0.6	18.5 23	-0.4 28	-3.4 13	1	9	
STRAIDE	14.6	2.1	8.4	-0.2	20.0 23	-2.5 26	-9.4 26	8	20	
<b>CO MEATH</b>										
WARRENTOWN	13.9	2.8	8.4	0.0	18.9 23	-3.5 27	-4.7 27	4	13	
<b>CO MONAGHAN</b>										
CARRICKMACROSS (DUNOGE)	13.6	2.6	8.1	-0.1	18.6 23	-2.9 27	-5.8 26	4	20	
<b>CO OFFALY</b>										
DERRYGREENAGH	14.2	3.0	8.6	0.5	19.2 23	-1.2 27	-4.6 13 26	1	21	
<b>CO ROSCOMMON</b>										
MOUNTDILLON	14.2	1.9	8.0	-0.4	19.5 23	-1.6 27	-6.4 26	9	19	
<b>CO SLIGO</b>										
ARDTARMON	13.8	4.4	9.1	0.1	18.8 8	1.1 27	-1.8 26	0	10	
<b>CO TIPPERARY</b>										
FETHARD (PARSONSHILL)	14.1	3.8	8.9	0.9	19.2 7	-0.8 28	-2.8 28	2	5	
GURTEEN (AG.COLLEGE)	14.1	2.5	8.3	0.1	19.2 22	-2.2 26	-7.2 26	3	19	
<b>CO WATERFORD</b>										
DUNGARVAN (CARRIGLEA)	14.2	4.2	9.2	0.2	16.9 21	-0.5 9	-3.5 21	1	11	
WATERFORD (TYCOR)	14.5	5.5	10.0	0.9	18.2 7	1.9 28		0		
<b>CO WESTMEATH</b>										
MULLINGAR	13.8	2.0	7.9	-0.3	19.2 23	-4.0 27	-8.3 27	6	22	
<b>CO WEXFORD</b>										
CLONROCHE (KNOXTOWN)	13.7	2.7	8.2	0.2	18.5 22	-0.9 13	-2.2 23 27	1	16	
JOHNSTOWN CASTLE	11.9	5.0	8.5	0.0	15.4 7	1.2 28	-3.4 27	0	12	
<b>CO WICKLOW</b>										
ASHFORD (CRONYKEERY)	13.4	3.2	8.3	-0.3	19.1 14	-1.6 27	-8.6 27	2	23	

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

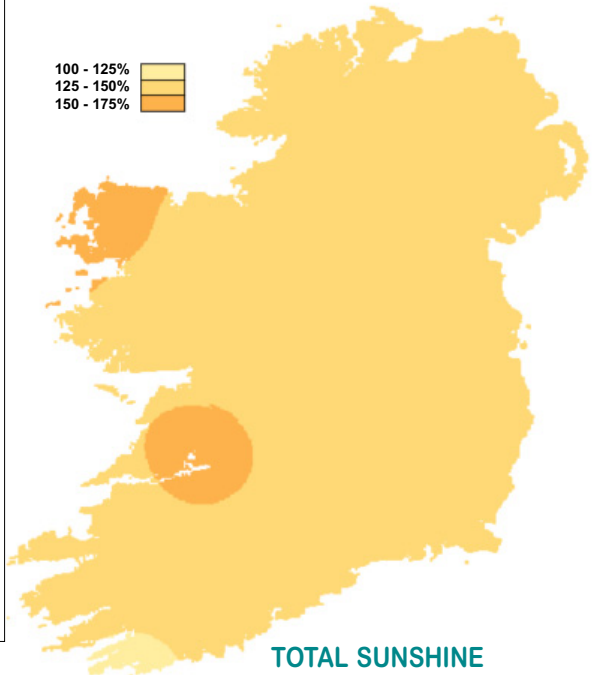
COUNTY/ STATION	DAILY MEAN (HOURS/DAY)	% OF 1981-2010 LTA	DULL DAYS ( $<0.5$ HRS)	MOST IN A DAY/DATE
<b>CO CLARE</b>				
SHANNON AIRPORT	8.21	159	1	13.3 21
<b>CO CORK</b>				
BALLINCURRIG (PEAFIELD)	7.54	140	1	13.3 21
CORK AIRPORT	7.46	140	2	13.4 21
SHERKIN ISLAND	6.75	114	3	13.3 21
<b>CO DONEGAL</b>				
BALLYSHANNON (CATHLEEN'S FALL)	7.18	144	5	13.4 21
<b>CO DUBLIN</b>				
CASEMENT AERODROME	7.04	139	1	13.3 21
DUBLIN (GLASNEVIN)	6.75	129	2	11.6 21
DUBLIN AIRPORT	7.66	146	1	13.9 21
<b>CO KERRY</b>				
ARDFERT (LISCAHANE)	7.15	135	2	12.4 19,22
VALENTIA OBSERVATORY*	7.25		3	13.2 22
<b>CO MAYO</b>				
BELMULLET*	8.01		6	13.8 23
KNOCK AIRPORT	6.54	137	6	13.1 18,21
NEWPORT (FURNACE)	7.05	150	5	12.0 21
STRAIDE	7.24	149	6	13.2 18,23
<b>CO WATERFORD</b>				
DUNGARVAN (CARRIGLEA)	7.63	144	1	13.0 21
<b>CO WEXFORD</b>				
CLONROCHE (KNOXTOWN)	-----not available-----			
JFK PARK	6.92	131	3	11.8 18
WEXFORD WILDFOWL RESERVE	-----not available-----			
<b>CO WICKLOW</b>				
ARKLOW (BALLYRICHARD HSE.)	7.36		5	13.3 21
ASHFORD (CRONYKEERY)	7.20	143	2	12.9 21

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

**SUNNIEST IN THE SOUTHEAST; ABOVE LTA SUNSHINE EVERYWHERE**

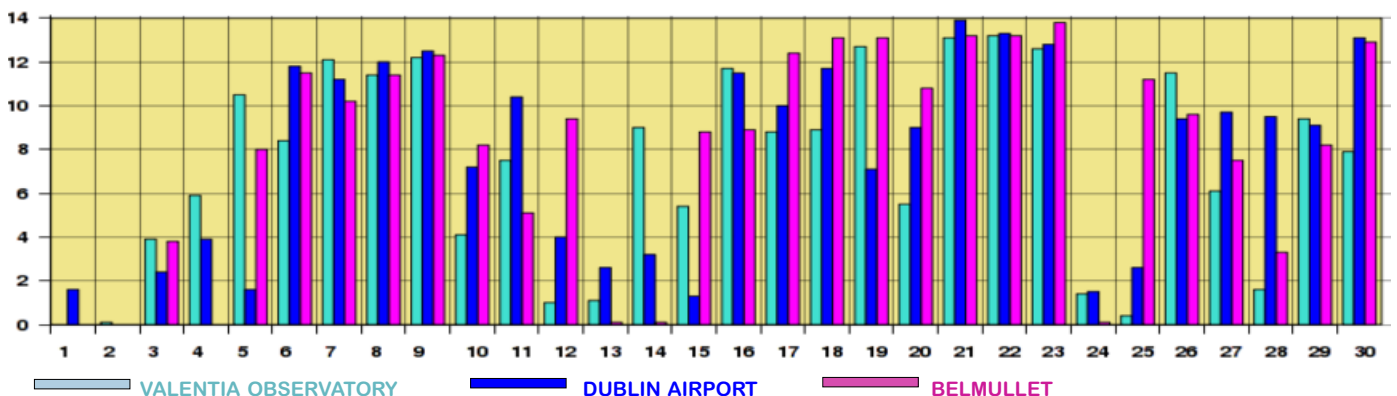
Sunshine totals were all above Long-Term Average (LTA) with the lowest percentage of LTA reported at Sherkin Island, Co Cork with 114% recording a monthly total of 202.4 hours, its sunniest April in five years. The month's highest percentage of LTA and month's highest monthly sunshine total was at Shannon Airport, Co Clare with 159% and 246.3 hours, respectively, its sunniest April since the station opened in 1946. The lowest monthly sunshine total was at Knock Airport, Co Mayo with 196.2 hours (137% of LTA), despite being the lowest monthly total, it was the most sunshine recorded for April at the station since it opened in 1996. The sunniest day was 13.9 hours at Dublin Airport on the 21st, equalling its highest April daily sunshine since the station opened in 1942.

Global solar radiation LTA values ranged from 114% at Malin Head, Co Donegal to 127% at Valentia Observatory, Co Kerry.

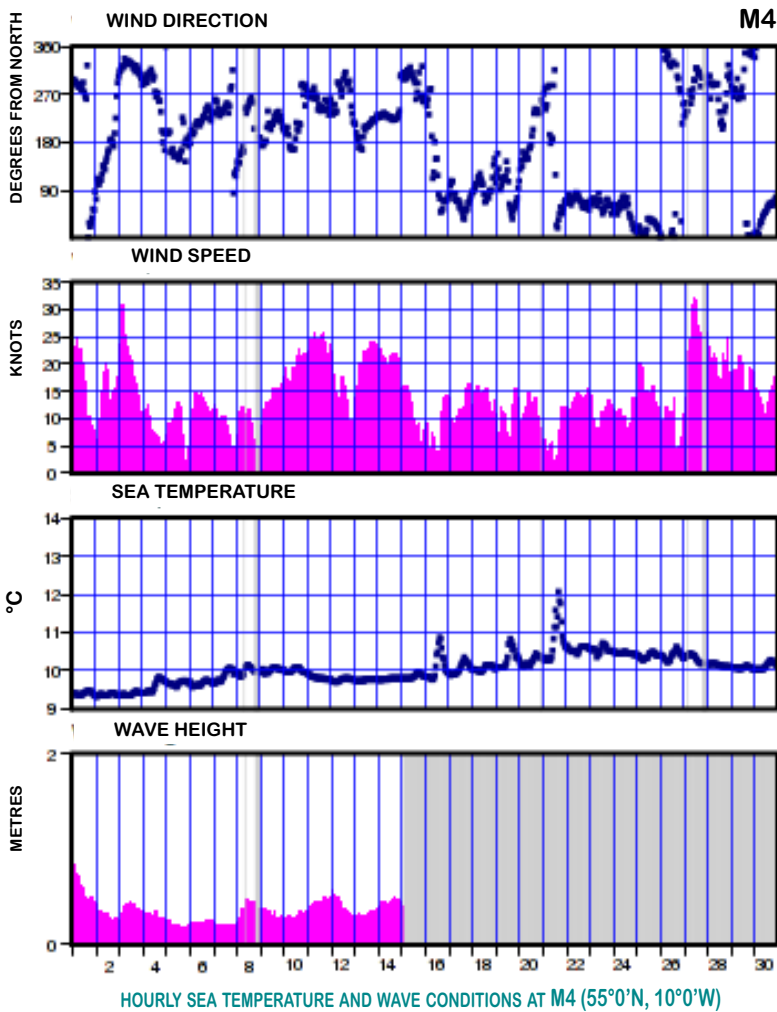


**TOTAL SUNSHINE (PERCENTAGE OF 1981-2010 NORMALS)**

**DAILY SUNSHINE VALUES (HOURS)**

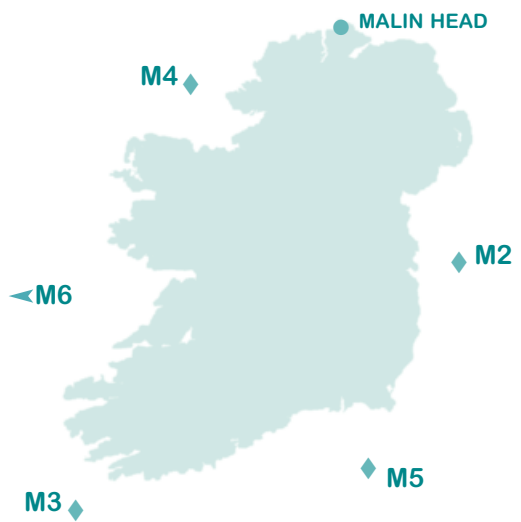


### MARINE OBSERVATIONS FROM IRISH MARINE DATA BUOY NETWORK

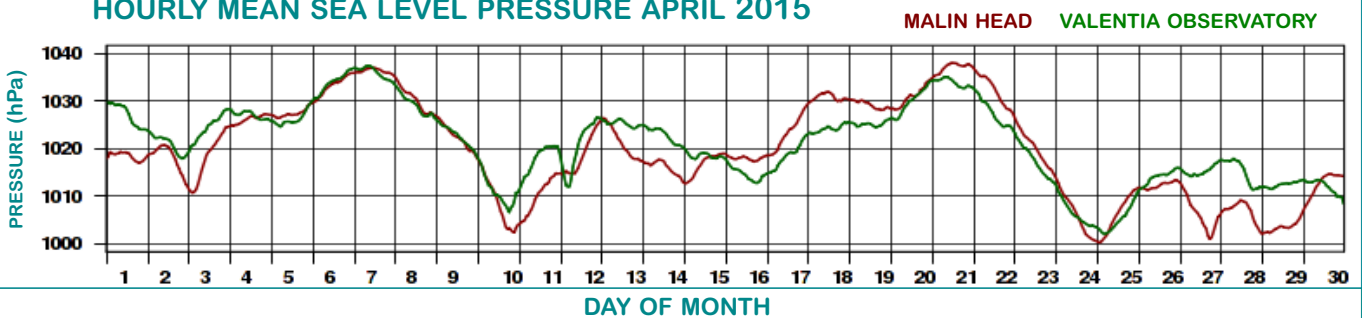


BUOY	SEA SURFACE TEMP. (°C)	MEAN WIND SPEED (knots)	MAX 10-MIN WIND (knots)	MEAN SIGNIFICANT WAVE HEIGHT (m)	MAX SIGNIFICANT WAVE HEIGHT (m)
M2*	8.2	10.8	30.0	0.8	3.8
M3*	n/a	13.6	26.8	2.5	5.9
M4*	10.0	13.3	32.0	3.4	8.5
M5*	9.6	12.2	25.8	1.3	8.5
M6*	10.8	16.5	27.0	2.9	4.4
MALIN HEAD	8.7*	* PARTIAL DATA			

#### SUMMARY OF MEAN MONTHLY VALUES

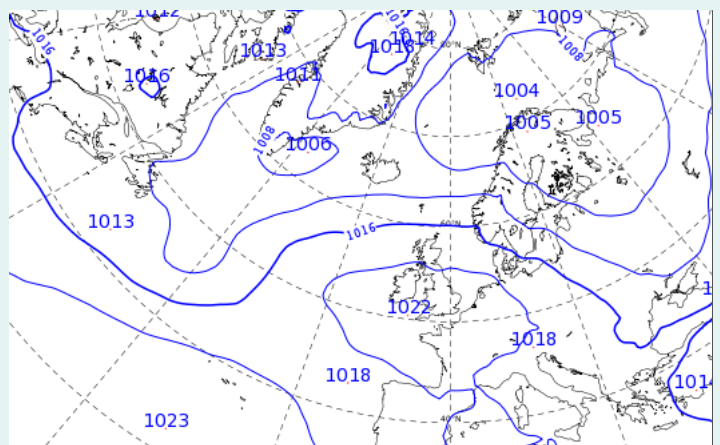


### HOURLY MEAN SEA LEVEL PRESSURE APRIL 2015



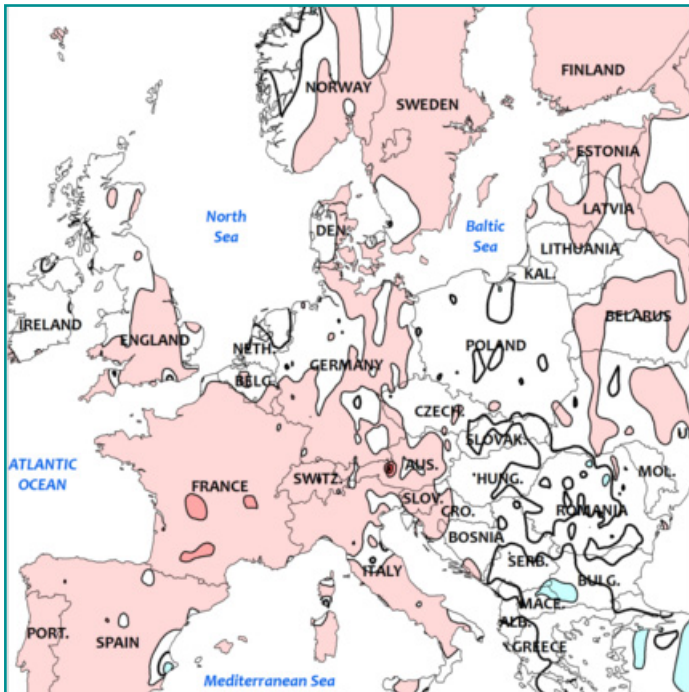
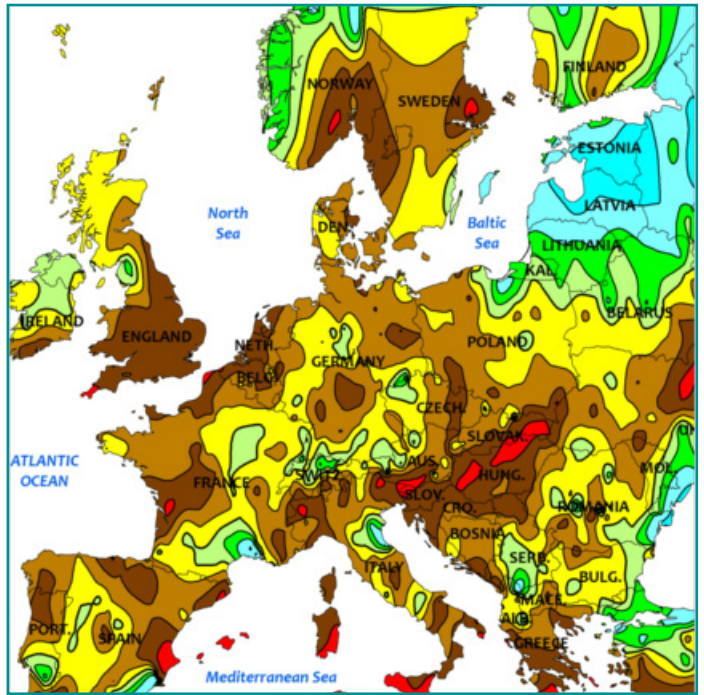
### ATMOSPHERIC PRESSURE

Monthly mean sea level pressure values ranged from just below 1020 hPa in the North to just below 1022 hPa in the South. The month's lowest pressure value of 999.0 hPa was recorded at Ballyhaise, Co Cavan on the 25th at 0300 UTC as a depression of 993 hPa was northeast of Scotland. The month's highest pressure value was 1038.4 hPa recorded at stations in the East and east Midlands on the 7th between 0600 UTC and 0800 UTC as a high pressure system spanned over Ireland, England, Wales and northwest Europe.

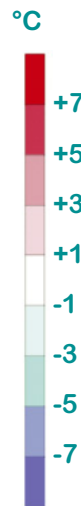


MONTHLY MEAN MSL PRESSURE, BASED ON 1200 UTC VALUES

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



**APRIL 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

A severe weather outbreak affected many parts of the United States from April 7th to 10th, resulting in three fatalities and many injuries. More severe weather from April 24th through to the 28th killed at least four people and injured dozens of others. The storms prompted tornadoes in Texas but most of the damage sustained was as a result of severe winds and large hail showers.

A supercell thunderstorm developed over southern Brazil on April 20th and spawned at least one tornado touchdown in the city of Xanxere. The tornado was estimated between F2 and F3 intensity, which was noted as one of the strongest in the region's history. Two people died and 97 others were injured as the tornado damaged or destroyed 2,188 homes.

At least 16 people died on April 28th due to seasonal flooding in Kenya that affected numerous cities. At least 300 homes were destroyed rendering hundreds of people homeless. Severe flooding also affected portions of Nairobi.

A cyclonic storm developed over Bangladesh, claiming 40 lives as it brought hail, torrential rain, gusty winds, and tornadoes to the affected areas. In Bangladesh the storm caused devastating damage to homes and infrastructure.

An intense East Coast Low impacted portions of Australia's New South Wales, killing at least three people. The thunderstorms brought winds gusting to 73 knots (135 km/hr) and torrential rainfall along the coastline. The Hunter Region was the hardest hit, where the Williams River burst its banks and caused major flood damage to the region.

**GLOBAL WEATHER SUMMARY**

