

MONTHLY WEATHER BULLETIN

NO. 324
APRIL 2013



*Lenticular clouds (*Alto cumulus lenticularis*) formed in the sky over the River Lee at Ballincollig Regional Park, Cork as people enjoyed the bright evening around the 21st of the month. These stationary lens-shaped clouds form in the troposphere when stable moist air flows over a mountain and are normally perpendicular to the wind direction. (Picture courtesy of Denis Scannell, Irish Examiner)*

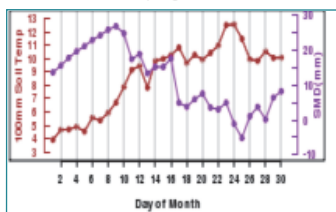
COLD AND EXTREMELY WINDY AT TIMES; WET IN PLACES

All monthly mean temperatures were below Long-Term Average (LTA), parts of the Northwest, West and Midlands had temperatures more than 1.5°C below average. Mullingar, Sherkin Island and stations in coastal areas in the North and West, were the coldest since

1989 (24 years). Other stations in the Western half of the country reported their coldest April since the early 2000s. Lowest air minimum temperatures were recorded at the start of the month. Dublin Airport and Mullingar recorded minima of -5.6°C and -6.5°C respectively on the



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6th, their lowest April air minimum temperature since both stations opened in 1942 (71 years) and 1950 (63 years), respectively. The month's actual lowest air minimum temperature of -7.3°C recorded at Mountdillon on the 6th was the lowest April air minimum temperature recorded in Ireland since 1988 (25 years). Phoenix Park, Mullingar, Casement and Merrion Square recorded their lowest maxima of 4.3°C , 3.7°C , 3.8°C and 4.3°C respectively for April since 1966 (47 years). Monthly mean wind speeds were high due to a series of deep Atlantic depressions that affected the country between the 13th and 18th of the month. Monthly mean wind speeds of 12.8 knots and 12.3 knots recorded at Dublin Airport and Cork Airport were the highest since 1950 (63 years) and 1986 (27 years), respectively. Rainfall for the month was mainly above LTA except in the eastern half of the country and along southeast coastlines. The wettest days of the month were mainly between the 10th and the 17th; Cloone Lake Co. Kerry recorded the greatest daily fall of the month with 72.3mm on the 16th; its wettest April day since 2003 (10 years). Monthly rainfall totals ranged from 280.2mm at Cloone Lake, Co. Kerry with 157% of LTA, its wettest April since 1999 (14 years) to 28.6mm at Ringsend, Dublin with 63% of LTA. Sunshine was on or above average at all recording stations, with percentage of LTA values as much as 133% at Straide Co. Mayo, with 193.8 hours of sunshine. April's highest monthly sunshine total of 196.8 hours was recorded at Ballyshannon (Cathleen's Fall) Co. Donegal. The sunniest day was at Ashford (Cronykeery), Co. Wicklow on the 29th with 13.1 hours of sunshine.

1st to 6th: A northeast to east airflow brought cold and dry weather, with clear skies and good sunshine. Ground and air frosts recorded almost everywhere.

7th to 13th: Remaining cold with outbreaks of rain and drizzle. Showers also, some heavy and with thunder on the 11th. Mainly cloudy but with prolonged sunny periods in parts. Air frost in some midlands areas, with ground frost almost everywhere.

14th to 21st: More unsettled weather, but turning milder, with a mixture of rain and scattered showers. Precipitation was heavy at times, with high accumulations on 17th. A few dull days but mainly sunny. Little or no air frost, with ground frost in most

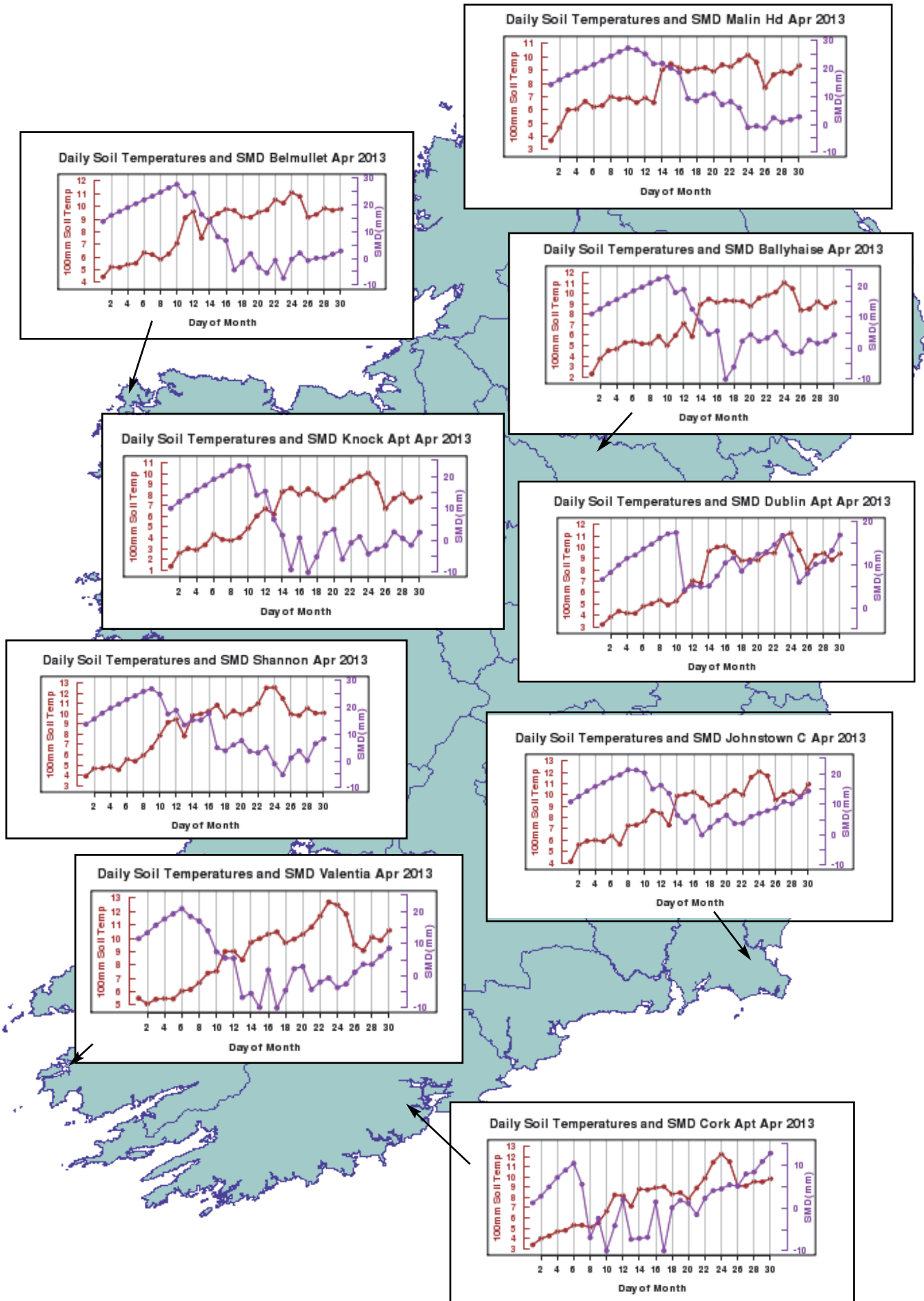


A partial lunar eclipse was visible across most parts of Ireland on April 25th, the night of the month's full moon. A partial lunar eclipse occurs when a portion of the Moon passes into the Earth's shadow. In the picture above, the Earth's shadow can be seen on the upper left hand surface of the Moon and was only visible to spectators for a number of hours. (Picture courtesy of Dan Linehan, Evening Echo)

places. Winds reaching gale force at times.

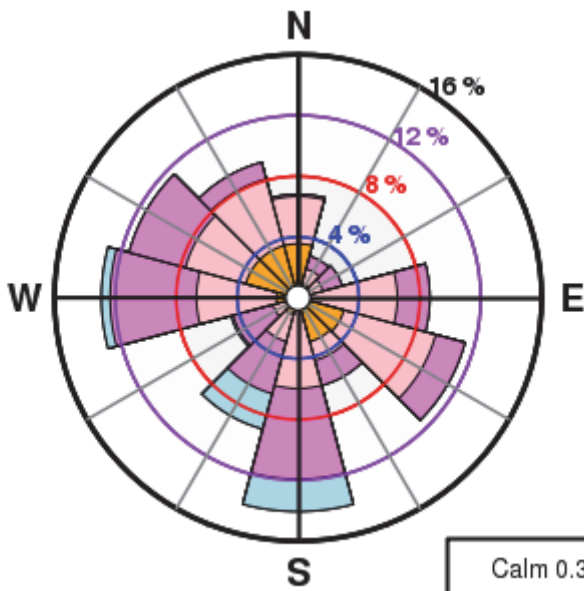
22nd to 30th: Mild and damp conditions at the start turned cooler and drier by the end of the period. Mainly sunny with cloudy intervals. Air frost in the Midlands and East on the 30th.

Wind and Elements: Mean windspeeds for the month were between 7.7 knots (14 km/h) at Mullingar and 15.9 knots (29 km/h) at Malin Head. Almost all stations recorded gusts greater than 34 knots between the 14th and 18th, with Roche's Point reporting the month's highest gust of 66 knots (122 km/h) on the 17th, (its highest gust for April since automatic records began in 2005. Dublin Airport's gust of 54 knots (100 km/h) on the 17th was its highest for April since 1990 (23 years). Six days with gale force winds were reported, all between the 13th and 18th, with winds during this period in exposed coastal sites reaching strong gale force at times. Mace Head reported the greatest number of gales during the month with five consecutive days of gale force winds from the 14th -18th. Kinsale Energy Gas Platform, south of Cork recorded a maximum individual wave of 18.6m on 17th April, its highest ever for April and the second highest ever recorded. Scattered thunderstorms were recorded on the 11th of the month. Mount Dillion Co. Roscommon and Drumconnick Co. Cavan reported 11 days of air frost, while up to 19 days ground frost were reported in parts of the Midlands, West and Northeast.

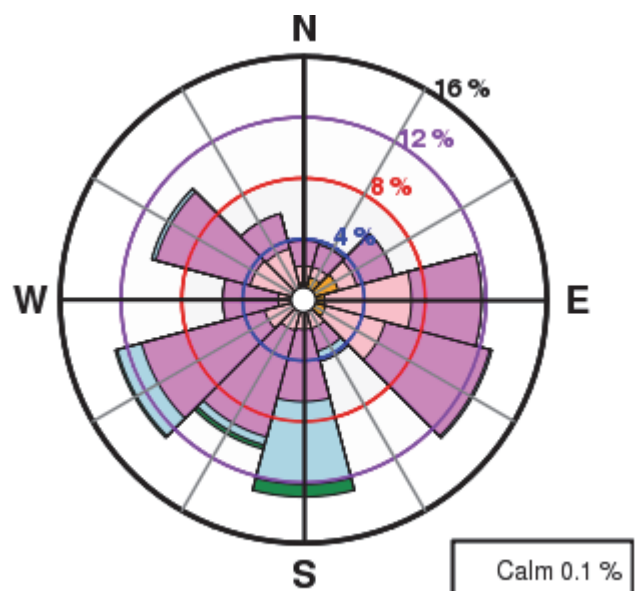


COUNTY / STATION	WIND (knots)										ELEMENTS (no.of days)					
	MEAN SPEED	MAX. 10-MIN. DIR.	MEAN SPEED	MEAN DATE/HOUR	MAX. GUST DIR.	GUST SPEED	GUST DATE/TIME	DAYS WITH		HOURS WITH		SNOW	SNOW LYING	HAIL	THUNDER	FOG
								GALES	GUST > 34KNOTS	GUST > 34KNOTS	GUST > 34KNOTS					
CO. CARLOW OAK PARK	9.3	200°	32	17/18	200°	50	17/1746	0	7	41						
CO. CAVAN BALLYHAISE	8.0	220°	26	16/04	220°	43	16/0453	0	5	24						
CO. CLARE SHANNON AIRPORT	11.6	220°	37	17/20	220°	53	17/2103	1	6	55	0	0	1	0	0	
CO. CORK ROCHE'S POINT	14.3	220°	46	17/18	200°	66	17/1618	4	9	74						
CO. DONEGAL CORK AIRPORT	12.3	210°	39	17/17	200°	59	17/1651	1	9	71	0	0	2	0	8	
CO. DUBLIN MALIN HEAD	15.9	230°	40	16/07	230°	53	16/0744	3	14	94						
CO. DUBLIN DUBLIN AIRPORT	12.8	220°	37	17/22	220°	54	17/2120	2	9	59	0	0	1	0	1	
CO. KERRY CASEMENT	11.7	220°	37	18/01	220°	52	18/0034	2	6	79	0	0	1	1	1	
CO. MAYO VALENTIA OBSERVATORY	10.4	230°	36	17/18	230°	55	17/1707	1	9	76						
CO. MEATH BELMULLET	12.6	180°	44	15/22	180°	58	15/2305	4	12	62						
CO. MEATH KNOCK AIRPORT	11.5	200°	33	16/01	210°	56	14/1448	0	11	66	2				4	
CO. MEATH DUNSANY (GRANGE)	10.1	220°	29	18/00	230°	42	18/0045	0	5	38						
CO. ROSCOMMON MOUNTDILLON	9.2	180°	25	14/14	210°	42	16/0235	0	6	19						
CO. WESTMEATH GURTEEN (AG. COLLEGE)	10.5	230°	29	17/22	230°	43	17/2249	0	5	40						
CO. WESTMEATH MULLINGAR	7.7	180°	22	14/14	190°	38	17/1523	0	4	12						
CO. WESTMEATH JOHNSTOWN CASTLE	10.8	190°	22	17/17	260°	38	18/0108	0	4	12						
CO. WESTMEATH JOHNSTOWN CASTLE	10.8	210°	30	17/18	220°	51	17/2216	0	5	35						

CARLOW (OAK PARK)



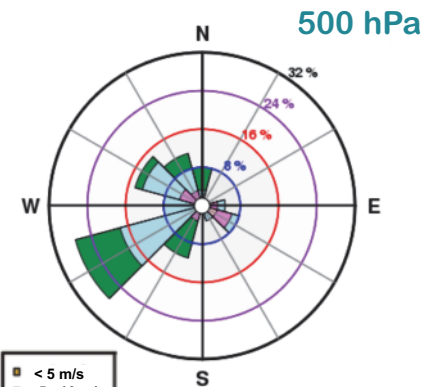
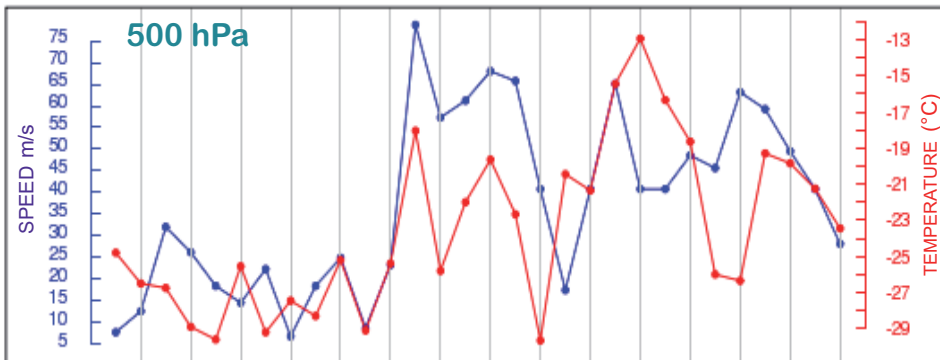
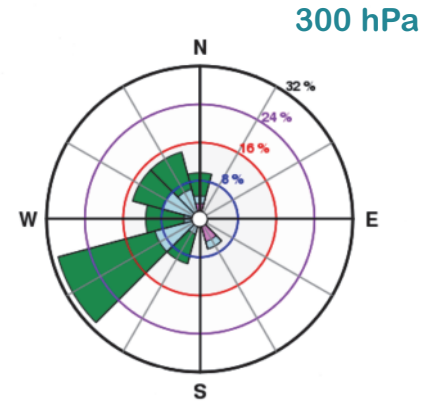
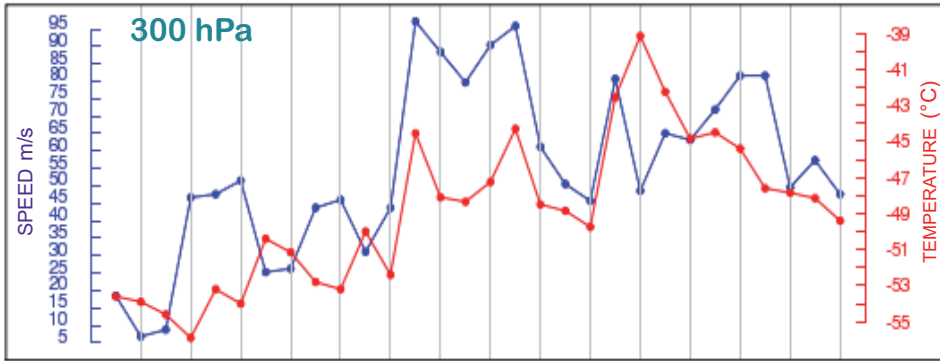
BELMULLET



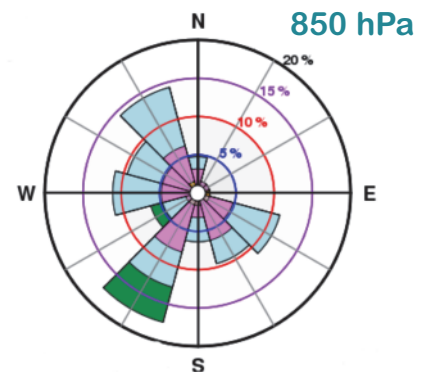
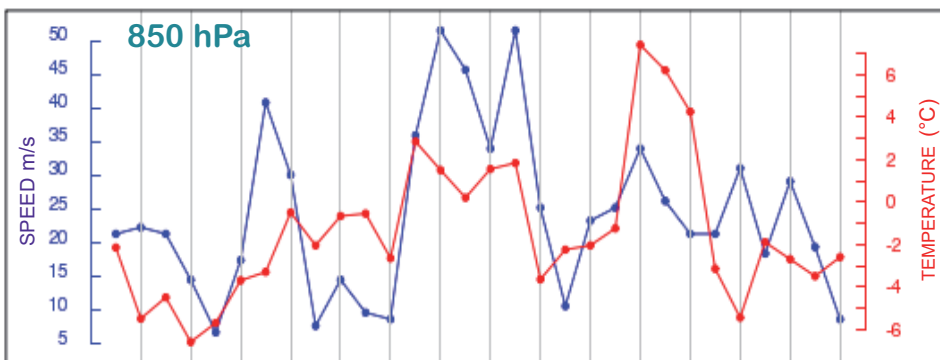
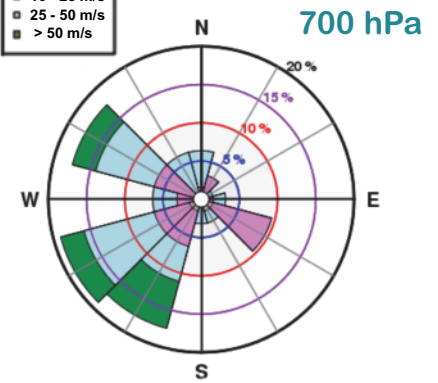
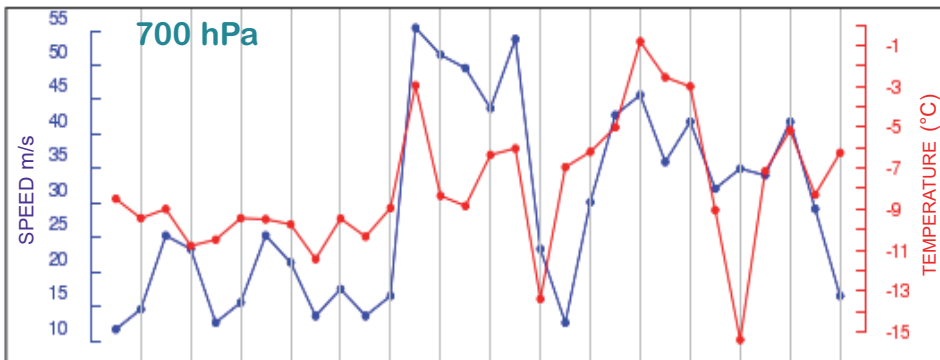
PERCENTAGE FREQUENCY OF WIND DIRECTION

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 windspeeds and temperatures at defined pressure levels, 850, 700, 500 and 300 hPa, corresponding approximately to heights of 1,500, 3,000, 6,000 and 10,000 metres. Monthly windroses are also shown for each pressure level.

UPPER AIR WIND SPEED AND TEMPERATURE APRIL 2013



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



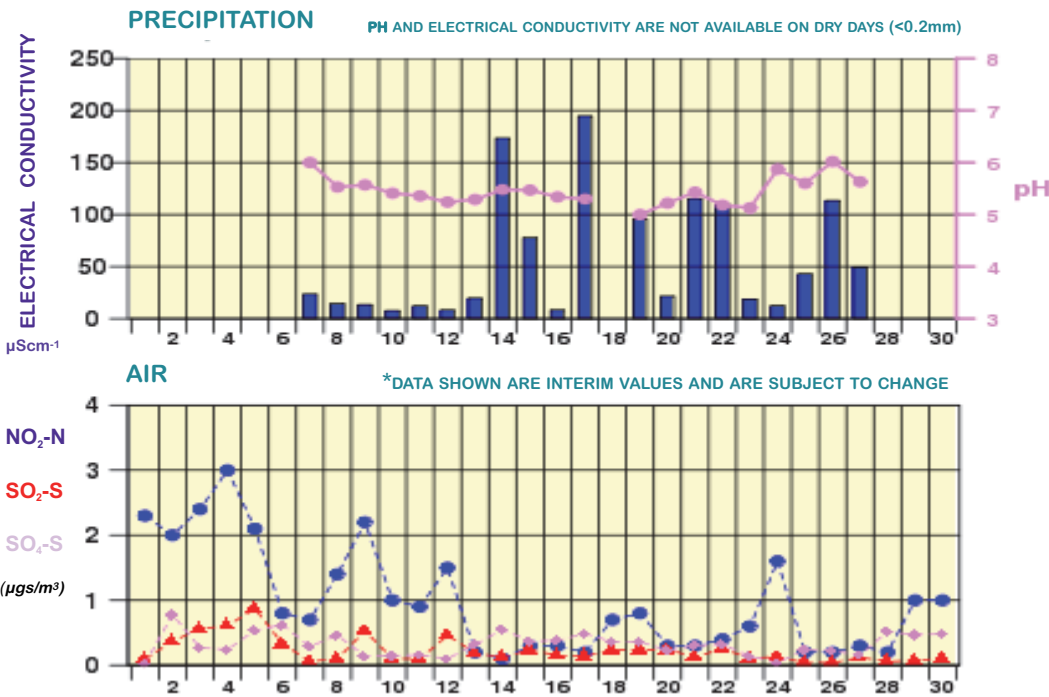
DAY OF MONTH

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.

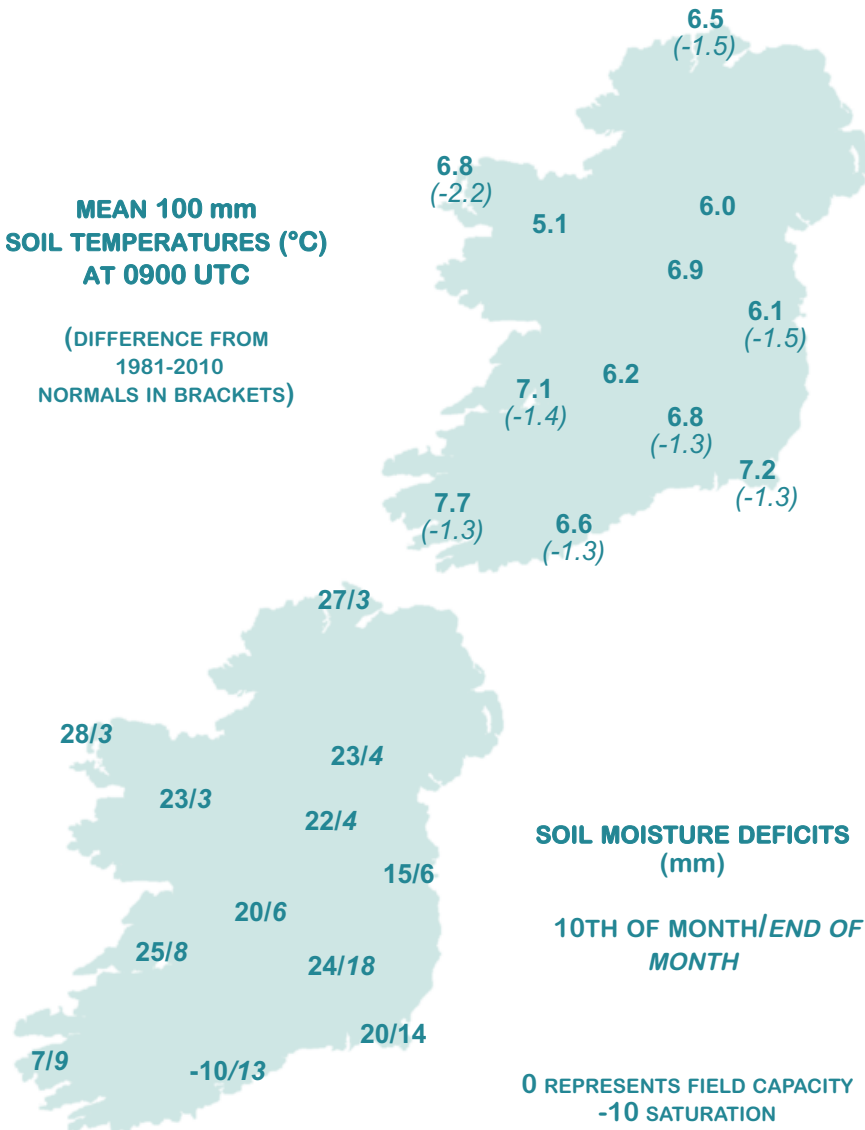
Sulphur dioxide and sulphate in air contribute to the formation of sulphuric acid; nitrate in air contributes to the formation of nitric acid.

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



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

(DIFFERENCE FROM 1981-2010 NORMALS IN BRACKETS)



MEAN SOIL TEMPERATURES (°C) AT 0900 UTC

COUNTY/STATION	100 mm	200 mm	300 mm
CO. CARLOW			
CARLOW (OAK PARK)	6.8	7.0	7.1
CO. CAVAN			
BALLYHAISE	6.0	6.4	7.0
CO. CLARE			
SHANNON AIRPORT	7.1	7.1	7.7
CARRON	7.3		7.8
CO. CORK			
ROCHE'S POINT	7.3	7.5	7.8
FERMOY (MOORE PARK)	6.9	7.0	7.6
CORK AIRPORT	6.6	6.9	7.4
SHERKIN ISLAND	7.8	8.0	8.5
BALINCURRIG (PEAFIELD)	6.4	6.3	7.5
CO. DONEGAL			
MALIN HEAD	6.5	7.0	7.3
CO. DUBLIN			
PHOENIX PARK	6.9	7.4	7.4
DUBLIN AIRPORT	6.1	6.4	6.8
CASEMENT AERODROME	6.1	6.4	6.5
CO. KERRY			
VALENTIA OBSERVATORY	7.7	8.3	8.8
CO. KILKENNY			
THOMASTOWN (MT. JULIET)	8.2	8.1	8.4
CO. LIMERICK			
MOUNT RUSSELL	6.2	6.9	
CO. MAYO			
BELMULLET	6.8	7.6	8.2
STRAIDE	7.0		
KNOCK AIRPORT	5.1	5.7	5.8
CO. MEATH			
WARRENSTOWN	5.9	6.7	7.5
DUNSANY (GRANGE)	6.1	6.8	6.8
CO. TIPPERARY			
GURTEEN (AG. COLLEGE)	6.2	6.3	6.7
FETHARD (PARSONSHILL)	6.3	6.9	
CO. WATERFORD			
DUNGARVAN (CARRIGLEA)		7.6	8.0
CO. WESTMEATH			
MULLINGAR	6.9	7.3	7.6
CO. WEXFORD			
JOHNSTOWN CASTLE	7.2	7.2	7.5
CLONROCHE (KNOXTOWN)	7.0	7.7	7.8
CO. WICKLOW			
ASHFORD (CRONYKEERY)	7.8	7.7	8.2

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. °	DATE	DAYS WITH GROUND FROST	MEAN 10CM AT 0900H	MEAN 30CM AT 0900H	TOTAL NO. OF HOURS	% OF AVERAGE
CO. CORK	1-10	63.4	-	4	3	8.1	0.9	4.5	-	-3.5	6	4	12	0	-4.4	6	4	3.3	5.1	46.9	-
BALLINCURRIG	11-20	45.9	-	9	7	12.5	4.8	8.7	-	0.0	13	0	45	7	-1.0	13	1	7.5	7.9	50.8	-
	21-END	8.9	-	5	4	14.1	4.9	9.5	-	1.2	27	0	54	14	-0.1	30	1	8.3	9.4	71.7	-
	MONTH	118.2	139	18	14	11.6	3.5	7.6	-0.5	-3.5	6	4	111	21	-4.4	6	6	6.4	7.5	169.4	105
CO. DONEGAL	1-10	3.8	-	1	1	10.7	-1.2	4.8	-	-5.2	5	5	19	3	-10.1	3	10	-	-	-	-
GLENTIES	11-20	87.8	-	8	8	12.5	4.0	8.3	-	-2.0	13	1	42	8	-6.6	13	4	-	-	-	-
	21-END	26.5	-	9	7	11.8	5.0	8.4	-	1.4	27	0	41	5	-4.9	30	3	-	-	-	-
	MONTH	118.1	122	18	16	11.7	2.6	7.1	-1.1	-5.2	5	6	103	15	-10.1	3	17	-	-	-	-
CO. KERRY	1-10	6.6	-	3	2	10.5	0.7	5.6	-	-4.1	5	4	22	2	-5.0	5	4	-	-	56.3	-
ARDFERT	11-20	53.3	-	8	7	13.7	5.8	9.8	-	1.4	13	0	54	11	0.4	13	0	-	-	63.3	-
	21-END	20.4	-	8	3	13.1	6.1	9.6	-	2.2	30	0	53	10	1.0	30	0	-	-	69.6	-
	MONTH	80.3	116	19	12	12.4	4.2	8.3	-0.8	-4.1	5	4	130	24	-5.0	5	4	-	-	189.2	119
CO. MONAGHAN	1-10	4.6	-	1	1	7.9	0.3	4.1	-	-5.0	6	2	10	0	-7.9	6	9	-	-	-	-
CARRICKMACROSS	11-20	38.5	-	8	7	12.9	4.1	8.5	-	-1.4	13	1	45	10	-3.2	13	6	-	-	-	-
	21-END	17.4	-	7	4	12.8	5.2	9.0	-	1.7	30	0	47	8	-3.5	30	4	-	-	-	-
	MONTH	60.5	94	16	12	11.2	3.2	7.2	-1.0	-5.0	6	3	103	18	-7.9	6	19	-	-	-	-
CO. WATERFORD	1-10	23.0	-	4	3	8.8	1.9	5.4	-	-3.1	6	1	17	0	-7.3	6	4	-	4.9	46.8	-
DUNGARVAN	11-20	43.5	-	9	6	13.5	5.8	9.7	-	0.0	13	0	54	11	-3.6	13	2	-	8.9	61.1	-
	21-END	3.3	-	3	2	14.8	6.4	10.6	-	1.0	30	0	63	18	-1.5	30	2	-	10.3	60.2	-
	MONTH	69.8	86	16	11	12.4	4.7	8.6	-0.5	-3.1	6	1	134	29	-7.3	6	8	-	8.0	168.1	105
CO. WEXFORD	1-10	N/A	-	NA	NA	8.1	1.6	4.9	-	0.0	5	0	13	0	-4.5	6	7	4.7	6.7	57.8	-
J.F.K. PARK	11-20	N/A	-	NA	NA	12.6	5.4	9.0	-	1.2	20	0	48	8	-0.6	13	2	8.9	9.2	51.7	-
	21-END	N/A	-	NA	NA	13.6	5.2	9.4	-	2.0	29	0	52	12	-1.0	30	3	10.2	11.2	64.5	-
	MONTH	N/A	N/A	NA	NA	11.4	4.0	7.7	-0.9	0.0	5	0	112	20	-4.5	6	12	7.9	9.0	174.0	109
CO. WICKLOW	1-10	4.2	-	2	1	8.1	1.8	5.0	-	-2.3	7	3	13	0	-9.9	7	9	5.1	6.3	53.9	-
ASHFORD	11-20	38.9	-	8	7	13.1	4.9	9.0	-	-0.8	13	1	49	11	-6.6	13	5	8.4	8.4	48.4	-
	21-END	4.2	-	6	2	14.2	6.3	10.3	-	3.3	26	0	59	16	-2.6	22	4	9.7	10.0	69.8	-
	MONTH	47.3	68	16	10	11.8	4.3	8.1	-0.5	-2.3	7	4	121	27	-9.9	7	18	7.8	8.2	172.1	114

P.E. (PENMAN)		GLOBAL SOLAR RADIATION (MJ/sq.m.)				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)
CO. CARLOW		CO. CARLOW							
CARLOW (OAK PARK)	57	CARLOW (OAK PARK)*	127.45	124.30	157.87	409.62			
CO. CAVAN		CO. CAVAN							
BALLYHAISE	52	BALLYHAISE*	125.11	117.74	148.26	391.11			
CO. CLARE		CO. CORK							
SHANNON AIRPORT	59	ROCHE'S POINT*	100.55	154.07	167.21	421.83	CO. KERRY		
CO. CORK		CO. DONEGAL					VALENTIA OBSERVATORY	128.1	73.6
CORK AIRPORT	50	MALIN HEAD	161.17	132.73	168.66	462.56	CO. KERRY		
CO. DONEGAL		CO. DUBLIN					NORTH KERRY LANDFILL	135.2	37.0
MALIN HEAD	56	DUBLIN AIRPORT	124.47	120.38	157.48	402.33	CO. MAYO		
CO. DUBLIN		CO. KERRY					NEWPORT (FURNACE)	126.2	49.8
DUBLIN AIRPORT	54	VALENTIA OBS.	136.78	142.19	170.64	449.61	CO. OFFALY		
CASEMENT AERODROME	47	CO. MAYO					DERRYGREENAGH	58.9	53.5
CO. KERRY		BELMULLET	150.83	135.93	172.51	459.27	CO. WATERFORD		
VALENTIA OBS.	56	CO. TIPPERARY					DUNGARVAN (CARRIGLEA)	69.8	61.8
CO. MAYO		GURTEEN (AG. COLLEGE)*	140.13	130.14	154.72	424.99	CO. WEXFORD		
BELMULLET	54	CO. WESTMEATH					J.F.K. PARK	N/A	N/A
KNOCK AIRPORT	52	MULLINGAR*	132.17	113.45	157.07	402.69			
CO. TIPPERARY		CO. WEXFORD							
GURTEEN (AG. COLLEGE)	57	JOHNSTOWN CASTLE*	135.90	131.42	167.78	435.10			
CO. WESTMEATH									
MULLINGAR	52								
CO. WEXFORD									
JOHNSTOWN CASTLE	54								

GLOBAL SOLAR RADIATION VALUES FOR STATIONS MARKED * ARE PROVISIONAL

Monday 1st: Clear spells overnight with frost in many places. Becoming cloudier towards dawn. Cloudy in most places through the day with the exception of the North and Northwest where there were some sunny spells. Cold and cloudy after dark too. Winds were fresh to strong, southwesterly.

Rainfall: Nil at numerous locations to 1.0 mm at Piltown (Kildalton Agr.Coll.)
Temperature: Lowest max. 3.5°C at Edenderry (Ballinla), Fethard (Parsonshill), highest max. 8.3°C at Dooks. Lowest min. -1.5°C at Cavan (Drumconnick), highest min. 5.3°C at Valentia Observatory.
Sunshine: Nil at numerous locations to 6.0 hours at Newport (Furnace)

Tuesday 2nd: Generally a dry day throughout with some good periods of sunshine for much of the country. Winds were moderate, easterly.

Rainfall: Nil at numerous locations to 0.2 mm at Ballineen (Carbery), Bandon (The Gully)
Temperature: Lowest max. 6.0°C at Johnstown Castle, highest max. 10.9°C at Glenties Hatchery. Lowest min. -3.1°C at Derrygreenagh, highest min. 5.0°C at Sherkin Island.
Sunshine: 6.9 hours at Ardferf (Liscahane), Sherkin Island, Cork Airport to 12.0 hours at Straide

Wednesday 3rd: Cold and dry overnight with an air frost inland and a widespread ground frost, severe or very severe in central midland areas. A sunny start in most areas, any cloud quickly dissipated during the morning with good sunshine for the rest of the day. Ground frost returned after dark and quickly became sharp to severe in central areas. Winds were light to moderate, easterly.

Rainfall: Nil at numerous locations to 0.1 mm at Newport (Coole)
Temperature: Lowest max. 6.5°C at Malin Head, highest max. 12.0°C at Glengarriff (Innacullin). Lowest min. -4.6°C at Glenties Hatchery, highest min. 3.3°C at Malin Head.
Sunshine: 10.2 hours at John F. Kennedy Park to 12.2 hours at Ballyshannon (Cathleen's Fall)

Thursday 4th: Very cold overnight with a widespread sharp to very severe ground frost and a sharp air frost in many areas. The frost cleared quickly during the morning and everywhere enjoyed long sunny spells throughout the day. Ground frost quickly returned after dark. The frost becoming sharp to severe in central areas with an air frost too. Winds were light to fresh, northeasterly.

Rainfall: Nil at numerous locations to 1.0 mm at Phoenix Park
Temperature: Lowest max. 6.5°C at Gleanealy (Kilmacurragh Park), highest max. 12.5°C at Glengarriff (Innacullin). Lowest min. -6.0°C at Straide, highest min. 3.7°C at Dun Laoghaire
Sunshine: 9.5 hours at Newport (Furnace), Clonroche (Knoxstown) to 11.8 hours at Ardferf (Liscahane), Cork Airport

Friday 5th: Very cold overnight with a widespread sharp to very severe ground frost and a slight to sharp air frost in many areas. Some very light rain or hail showers affected east Leinster during the morning. The afternoon saw just the odd isolated shower in the Dublin area; dry elsewhere with some good sunshine. A sharp to severe ground frost quickly set in after dark in the eastern half of the country. Winds were light to moderate, northeasterly.

Rainfall: Nil at all locations
Temperature: Lowest max. 6.0°C at Casement, highest max. 13.2°C at Glenties Hatchery. Lowest min. -6.0°C at Markree, highest min. 4.4°C at Ashford (Cronykeery).
Sunshine: 3.8 hours at Dublin (Glasnevin) to 9.4 hours at Ardferf (Liscahane)

Saturday 6th: Cold with a severe frost overnight. The frost cleared quickly during the morning and the day was dry and sunny but still cool for early April. Winds were light, variable in direction.

Rainfall: Nil at numerous locations to 6.9 mm at Gap of Dunloe
Temperature: Lowest max. 8.0°C at Roche's Point, highest max. 13.5°C at Ardferf (Liscahane). Lowest min. -7.3°C at Mt. Dillon, highest min. 2.2°C at Mace Head.
Sunshine: 5.4 hours at Ballincurrig (Peafield) to 11.1 hours at Knock Airport

Sunday 7th: Dry overnight with frost in the eastern half of the country. A mostly dry and cloudy morning, with just some patchy rain along the Southwest coast. Rain and drizzle near the South and Southwest coasts persisted throughout the day and on into late evening. Dry elsewhere with a slight ground frost returning after dark. Winds were fresh, south to southeast.

Rainfall: Nil at numerous locations to 28.3 mm at Kilgarvan (Gortnabouli)
Temperature: Lowest max. 5.9°C at Cork Airport, highest max. 10.0°C at Castleconnell. Lowest min. -3.1°C at Mt. Dillon, highest min. 6.3°C at Sherkin Island.
Sunshine: Nil at numerous locations to 1.4 hours at Straide

Monday 8th: Some rain along the South coast overnight, dry and misty elsewhere, with a slight ground frost in places. The morning was mostly dry with some sunny spells, the best of the sunshine in the East and North. Rain and drizzle along the South and Southwest coasts persisted thereafter, remaining dry elsewhere. Winds were fresh to strong, southwesterly.

Rainfall: Nil at numerous locations to 27.8 mm at Ballincurrig (Peafield)
Temperature: Lowest max. 6.5°C at Cork Airport, highest max. 12.0°C at Elphin, Littleton II.

Lowest min. -2.9°C at Mt. Dillon, highest min. 6.2°C at Sherkin Island.
Sunshine: Nil at numerous locations to 10.2 hours at Straide

Tuesday 9th: Outbreaks of rain in the East and the southern half of the country; it also briefly affected east Ulster before retreating southwards. Sunshine in the West throughout the day but becoming cloudy as a front moved northwards and rain again affected the South. The rain moved northwards very gradually through the afternoon and evening, affecting only Munster and south Leinster by the end of the day. Winds were moderate, easterly.

Rainfall: Nil at numerous locations to 18.0 mm at Ballymacoda (Mountcotton)
Temperature: Lowest max. 5.6°C at Edenderry (Ballinla), highest max. 11.0°C at Castleconnell. Lowest min. -3.0°C at Elphin, highest min. 5.8°C at Sherkin Island.
Sunshine: Nil at numerous locations to 10.2 hours at Straide

Wednesday 10th: Rain from the South moved up through the country overnight giving outbreaks to all parts except the North and Northwest. A small band of thundery rain gave localised downpours on the South coast for a time during late morning. A further band of frontal rain from the South pushed northwards during the rest of the day, affecting all parts except Ulster. By late evening there were heavy pulses of rain in the Southwest. Winds were light to moderate, east to southeast.

Rainfall: Nil at numerous locations to 27.6 mm at Mount Russell
Temperature: Lowest max. 7.4°C at Ballyhaise, Carrickmacross (Dunoge), highest max. 13.4°C at Delphi Lodge. Lowest min. -2.8°C at Elphin, highest min. 5.5°C at Wexford Wildfowl Reserve.
Sunshine: Nil at numerous locations to 7.3 hours at Sherkin Island

Thursday 11th: Rain over much of the country pushed north overnight. Further heavy showery rain pushed up over the country during the morning. These showers were thundery in places during the afternoon, with only the Northwest and the far South escaping. Showers were more isolated by evening but there were still some moderate falls in eastern areas. Winds were light to moderate, variable in direction.

Rainfall: Nil at numerous locations to 26.4 mm at Claremorris
Temperature: Lowest max. 6.7°C at Malin Head, highest max. 14.0°C at Belmullet. Lowest min. 2.6°C at Dundalk (Annaskeagh), highest min. 7.2°C at Valentia Observatory, Cloyne (Lisanley).
Sunshine: Nil at numerous locations to 10.3 hours at Sherkin Island

Friday 12th: Misty overnight with fog in a few places, the odd light shower also. Well-scattered showers during the morning, but with some good spells of sunshine particularly in Munster. Some isolated showers across the middle of the country during the afternoon and evening while the rest of the country remained dry. A ground frost for many areas after dark. Winds were light, variable in direction.

Rainfall: Nil at numerous locations to 17.9 mm at Ballynahinch
Temperature: Lowest max. 7.6°C at Malin Head, highest max. 14.5°C at Dungarvan (Carriglea). Lowest min. 0.7°C at Glenties Hatchery, highest min. 8.1°C at Wexford Wildfowl Reserve.
Sunshine: Nil at numerous locations to 9.8 hours at Shannon Airport

Saturday 13th: Dry and cold at first with frost. Rain spread into the Southwest around dawn moving quickly up over the country through the morning and early afternoon. Further rain pushed into the West, making only slow progress eastwards by evening. The rain was heaviest in the South and West. Winds ranged light to strong, variable in direction.

Rainfall: 1.0 mm at Galtee Mountains Skeheenarinky to 67.3 mm at Cloone Lake (Caragh River Area)
Temperature: Lowest max. 10.3°C at Roche's Point, highest max. 16.0°C at Dooks. Lowest min. -2.3°C at Thomastown (Mt. Juliet), highest min. 4.3°C at Dublin (Merrion Square).
Sunshine: Nil at numerous locations to 2.2 hours at Dublin (Glasnevin)

Sunday 14th: Rain already in the West slowly crossed the country in the early hours, clearing the east coast by mid-morning. A band of showers pushed up quickly, in strong winds from the Southwest, dying out over Ulster. Further showers continued through the evening affecting mostly the Southwest and Midlands. Winds were strong with gale gusts, southerly.

Rainfall: Nil at numerous locations to 21.1 mm at Leenane-Glanaglimma
Temperature: Lowest max. 11.5°C at Roche's Point, highest max. 15.8°C at Dublin (Glasnevin), Ardee (Boharnamoe). Lowest min. 3.7°C at Glenties Hatchery, highest min. 9.1°C at Valentia Observatory
Sunshine: Nil at Claremorris to 9.5 hours at Ardferf (Liscahane)

Monday 15th: Generally dry overnight with mist in places and just the odd shower. Showery over much of the country throughout the day. Showers were punctuated by sunny spells in places before becoming heavier in some places during the afternoon. Rain in the Southwest during the evening with showers and sunny or clear spells elsewhere. Winds were strong, southwesterly.

Rainfall: Nil at numerous locations to 42.0 mm at Leenane-Glanaglimma
Temperature: Lowest max 11.2°C at Roche's Point, highest max. 16.9°C at Dun Laoghaire. Lowest min. 5.5°C at Straide, highest min. 10.7°C at Dublin (Glasnevin).
Sunshine: Nil at Claremorris to 8.0 hours at Newport (Furnace)

Tuesday 16th: Heavy overnight showers became well scattered during the morning. Much of the morning and afternoon remained dry, but with still the odd shower in some areas. A slight ground frost appeared in parts after dark. Winds were strong to gale force, southwesterly.

Rainfall: Nil at numerous locations to 72.3 mm at Cloone Lake (Caragh River Area)
Temperature: Lowest max. 11.1°C at Malin Head, highest max. 16.5°C at Piltown (Kildalton Agr.Coll.) Lowest min. 5.3°C at Ballinamore (Creedy No.2), highest min. 9.8°C at Dublin (Glasnevin).

Sunshine: Nil at Claremorris to 11.4 hours at Dungarvan (Carriglea), Ashford (Cronykeery)

Wednesday 17th: Overnight rain from the West spread to the whole country during the early hours. The rain cleared the east coast by early afternoon leaving showers in its wake which affected much of the country on and off throughout the day. Some sunny spells between showers. Winds were strong to gale force, southerly.

Rainfall: Nil at Ballinspittle (Kilkerran) to 51.8 mm at Drummin Tawnyard
Temperature: Lowest max. 11.0°C at Cahore (Kilmichael House), Ballinacurry (Peafield), highest max. 16.7°C at Ardtarmon. Lowest min. 1.2°C at Dundalk (Annaskeagh), highest min. 10.0°C at Killarney (Muckross House), Dooks.

Sunshine: Nil at numerous locations to 6.8 hours at Ballyshannon (Cathleen's Fall)

Thursday 18th: Rain affected most of the country overnight with heavy pulses in the Midlands and South, before clearing the east coast by dawn. Further scattered showers affecting the West and Southwest formed into bands of showers and spread countywide during the late morning and afternoon. Heavy and frequent, they passed over quickly, before dying back to western coasts by the end of the day. Winds were strong, west to northwest.

Rainfall: Nil at numerous locations to 21.4 mm at Drummin Tawnyard
Temperature: Lowest max. 9.8°C at Knock Airport, highest max. 14.5°C at Dunmoe (Graigs Lane). Lowest min. 3.4°C at Derrygreenagh, highest min. 8.0°C at Piltown (Kildalton Agr.Coll.).

Sunshine: Nil at Claremorris to 10.3 hours at Sherkin Island

Friday 19th: Light and scattered showers in the Southwest and West moved eastwards overnight, dying out as they did. A ground frost in parts of the West towards dawn. Further scattered showers from the West moved slowly across the country, before dying out by early evening. Some sunshine in most areas, the day ended with clear skies and a slight to sharp ground frost. Winds were light, southwest to west.

Rainfall: Nil at numerous locations to 14.5 mm at Kilcar (Cronasillagh)
Temperature: Lowest max. 11.2°C at Sherkin Island, highest max. 15.0°C at Castleconnell, Lullymore Nature Centre. Lowest min. -0.4°C at Dunmoe (Graigs Lane), highest min. 6.4°C at Mace Head.

Sunshine: Nil at Claremorris to 12.5 hours at Ballyshannon (Cathleen's Fall)

Saturday 20th: Clear spells overnight with patches of drizzle in places, some fog in the Southeast with a sharp inland frost. Occasional showers during the day, there were good spells of sunshine particularly in the East. A band of showers crossed the country during the afternoon. The cloud thickened and brought outbreaks of rain to the Northwest during the late evening. Winds were light to fresh, variable in direction.

Rainfall: Nil at numerous locations to 21.7 mm at Newport
Temperature: Lowest max. 10.8°C at Mace Head, highest max. 15.4°C at Dublin (Glasnevin). Lowest min. -1.2°C at Castleconnell, highest min. 8.2°C at Mace Head

Sunshine: Nil at Claremorris to 11.9 hours at Wexford Wildfowl Reserve

Sunday 21st: Rain already into the West and Northwest crossed the country overnight. A clearance followed, reaching the east coast by mid-morning. A line of heavy showers arrived in the West, crossing the country through the morning and early afternoon. Isolated lighter showers continued for a while, but gradually died back to the West by evening. Winds were light to moderate, southwest to west.

Rainfall: Nil at numerous locations to 13.1 mm at Curry
Temperature: Lowest max. 10.3°C at Knock Airport, highest max. 16.0°C at Cahore (Kilmichael House). Lowest min. 3.5°C at Cashel (Ballydoyle House), highest min. 8.1°C at Cloyne (Lisanley).

Sunshine: Nil at Claremorris to 9.1 hours at Ballyshannon (Cathleen's Fall)

Monday 22nd: An area of patchy light rain or drizzle affected Connacht, north Munster and Leinster during the early hours, before clearing the East coast shortly after dawn. A band of heavier rain crossed north Connacht and Ulster in the late morning and early afternoon. It was dry elsewhere and remained so for the rest of the day. Winds were light to moderate, southwest to west.

Rainfall: Nil at numerous locations to 8.1 mm at Cleggan (Cloch Breac)
Temperature: Lowest max. 11.5°C at Malin Head, highest max. 19.2°C at Cork (Clover Hill). Lowest min. 4.0°C at Casement, Craggaunowen, highest min. 9.6°C at Dooks.

Sunshine: Nil at Claremorris to 8.1 hours at Sherkin Island

Tuesday 23rd: Some patchy rain and drizzle in places overnight, but most areas were dry with mist in places. The day was dry throughout with good

sunny spells. Some rain in the North and Northwest by late evening, but generally dry over the rest of the country. Winds were light, westerly.

Rainfall: Nil at numerous locations to 19.9 mm at Ardnawark Barnesmore
Temperature: Lowest max. 11.7°C at Ballyshannon (Cathleen's Fall), highest max. 20.5°C at Cork (Clover Hill). Lowest min. 5.2°C at Dundalk (Annaskeagh), highest min. 10.9°C at Killarney (Muckross House).

Sunshine: Nil at Claremorris to 9.3 hours at John F. Kennedy Park

Wednesday 24th: Rain and drizzle overnight in places, with some heavy falls along the North coast. The morning was cloudy with some rain and drizzle in places. The afternoon saw rain and drizzle over the East and South of the country, this rain and drizzle continued through the evening and night. Winds were light, southwesterly.

Rainfall: Nil at numerous locations to 20.4 mm at Cloghane
Temperature: Lowest max. 9.5°C at Knock Airport, highest max. 18.0°C at Cahore (Kilmichael House), Cloyne (Lisanley). Lowest min. 6.6°C at Knock Airport, highest min. 12.3°C at Dublin (Glasnevin).

Sunshine: Nil at numerous locations to 6.2 hours at Newport (Furnace)

Thursday 25th: Rain overnight, heavy in places. Though dry elsewhere, rain continued over the East of the country before clearing the East coast by late morning. The afternoon and evening saw mostly dry bright weather, but some showers developed also. Winds ranged light to moderate, variable in direction.

Rainfall: Nil at numerous locations to 7.2 mm at Dromahair (Market St.)
Temperature: Lowest max. 10.1°C at Knock Airport, highest max. 15.5°C at Glengariff (Ilnacullin). Lowest min. 3.6°C at Knock Airport, highest min. 10.5°C at Waterford (Tycor).

Sunshine: Nil at Claremorris to 9.4 hours at Ballyshannon (Cathleen's Fall)

Friday 26th: Generally dry overnight with just the odd shower in the West with a ground frost in places also. A mainly dry morning with sunny spells, but with a few well scattered showers also, some of hail. Showers became more frequent and heavy during the afternoon. The evening and night were dry over most of the country, with just the odd shower along the West coast. Winds were light to strong, north to northwest.

Rainfall: Nil at numerous locations to 9.1 mm at Derrypark
Temperature: Lowest max. 7.9°C at Knock Airport, highest max. 13.5°C at Cahore (Kilmichael House). Lowest min. -0.3°C at Thomastown (Mt. Juliet), highest min. 6.1°C at Sherkin Island.

Sunshine: Nil at Claremorris to 11.8 hours at Sherkin Island, Clonroche (Knoxtown)

Saturday 27th: A few light showers in western counties overnight, otherwise dry. A slight to sharp ground frost in some inland areas disappeared quickly around dawn. Morning and afternoon were mostly bright, with some long sunny spells and just the odd isolated light shower. Remaining mostly dry during the evening, with just some light and patchy rain or drizzle in a few places. Winds were light to moderate, northerly.

Rainfall: Nil at numerous locations to 5.7 mm at Dromahair (Market St.)
Temperature: Lowest max. 9.1°C at Malin Head, highest max. 15.0°C at Glengariff (Ilnacullin). Lowest min. -1.0°C at Castleconnell, highest min. 7.2°C at Sherkin Island

Sunshine: Nil at Claremorris to 12.8 hours at Cork Airport

Sunday 28th: Some patchy light rain or drizzle overnight pushed away southeastwards during the morning but more showery rain followed behind. Showery in the afternoon with only parts of the far South escaping. Showers continued during the evening becoming more isolated. Winds were light to moderate, northwesterly at first backing southwesterly by evening.

Rainfall: Nil at numerous locations to 12.7 mm at Termon (Goldrum)
Temperature: Lowest max. 9.5°C at Knock Airport, highest max. 16.0°C at Glengariff (Ilnacullin). Lowest min. 3.1°C at Mallow (Spa House), highest min. 7.7°C at Belmullet, Oughterard (Ardnasillagh).

Sunshine: Nil at Claremorris to 4.1 hours at Sherkin Island

Monday 29th: Showers continued overnight in the West and North, generally dry elsewhere. Showers became heavier and spread to the rest of the country during the morning. It continued showery through the afternoon, but the showers gradually died out by evening. Good sunshine between the showers everywhere. Winds were moderate; west to northwest.

Rainfall: Nil at numerous locations to 5.2 mm at Dunfanaghy (Murroe)
Temperature: Lowest max. 9.8°C at Knock Airport, highest max. 14.9°C at Waterford (Tycor). Lowest min. 1.1°C at Clonroche (Knoxtown), highest min. 7.4°C at Sherkin Island.

Sunshine: Nil at Claremorris to 13.1 hours at Ashford (Cronykeery)

Tuesday 30th: Dry and cold overnight with a slight air frost and widespread grass frost inland. It continued mainly dry for the rest of the day, with a mixture of sunshine and cloud. The afternoon saw a few scattered light showers. Winds were light to moderate, northwesterly at first before backing southwesterly later.

Rainfall: Nil at numerous locations to 4.7 mm at Drummin Tawnyard
Temperature: Lowest max. 10.7°C at Markree, highest max. 15.1°C at Slieve Bloom Mtns. (Nealstown) Lowest min. -2.0°C at Castleconnell, highest min. 5.1°C at Mace Head, Sherkin Island

Sunshine: Nil at Claremorris to 12.8 hours at Ashford (Cronykeery)

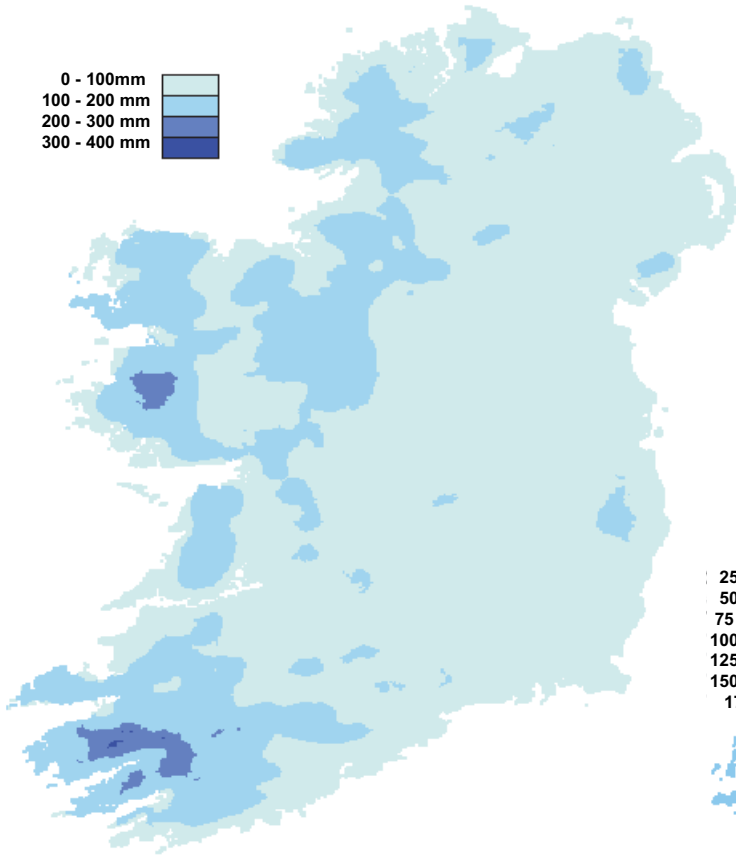
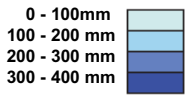
WETTEST IN THE WEST & SOUTHWEST

Rainfall totals were mainly near or above LTA except for some stations in the eastern half of the country and along southeast coastlines. Monthly rainfall totals ranged from 280.2mm at Cloone Lake, Co. Kerry with 157% of LTA, its wettest April since 1999 (14 years) to 28.6mm at Ringsend, Dublin with 63% of LTA. Kilgarvan (Gortnaboul) Co. Kerry recorded a monthly total of 211.6 mm, its wettest April since 1970 (43 years). Many stations across the country reported April 2012 as being wetter than April 2013. The driest areas compared to LTA were mainly in the East and Southeast, with Tullow Co. Carlow reporting just under half of LTA but the month's actual lowest percentage of LTA of 42% was at Inishbofin Co. Galway recording 31.7 mm, its driest April since 1985 (28 years). Wettest days of the month were mainly between the 10th and 17th, with the month's highest daily rainfall recorded at Cloone Lake, Co. Kerry on the 16th with 72.3 mm, its wettest April day since 2003 (10 years). French Park Callow Co. Roscommon recorded 27.1 mm on the 17th, its highest daily fall for April since 1987 (26 years), while Knock Airport recorded its highest daily fall for April since 1997 (16 years) also on the 17th. Claremorris recorded a daily rainfall amount of 33.9mm on the 11th, its wettest April day since the station opened in 1950 (63 years). The number of wetdays (*days with 1 mm or more of rainfall*) ranged from 21 at Mt Cummeragh Killarney, Co. Kerry and Ballydesmond Co. Kerry to 6 at Malahide Castle and Ringsend, Dublin, while the number of raindays (*days with 0.2 mm or more of rainfall*) ranged from 25 at Roads, Co. Kerry to 10 at numerous stations

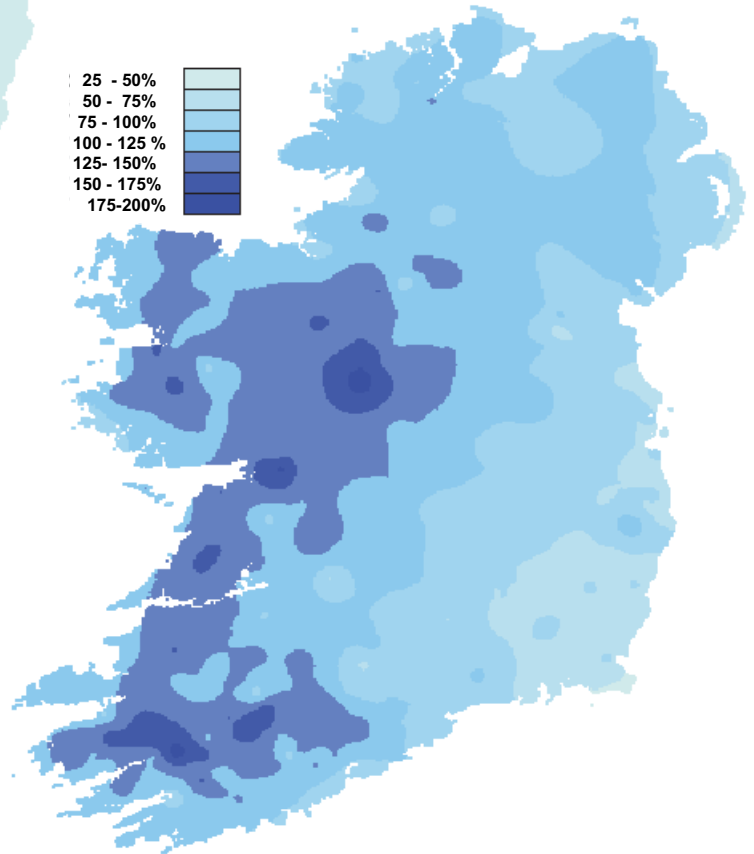
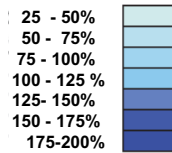
COUNTY/ STATION	TOTAL	% OF	MOST IN		NUMBER OF	
	AMOUNT (mm)	1981-2010 AVERAGE	A DAY /	DATE	RAINDAYS (≥0.2mm)	WETDAYS (≥1mm)
CO. CARLOW						
CARLOW (OAK PARK)	44.4	79	10.6	11	12	10
CO. CAVAN						
BALLYHAISE	75.8	111	12.8	16	17	17
CO. CLARE						
CARRON	119.4	134	19.9	17	21	18
SHANNON AIRPORT	63.5	107	13.7	24	20	12
CO. CORK						
BALLINCURRIG (PEAFIELD)	118.2	139	27.8	8	18	14
CORK AIRPORT	97.2	127	17.8	10	19	15
FERMOY (MOORE PARK)	71.1	108	14.0	10	19	14
ROCHE'S POINT	52.5	89	12.9	10	17	11
SHERKIN ISLAND	72.7	99	15.6	8	17	11
CO. DONEGAL						
BALLYSHANNON (CATHLEEN'S FALL)	64.5	91	12.5	20	18	14
GLENTIES HATCHERY	118.1	122	19.7	15	18	16
MALIN HEAD	62.8	97	12.6	23	16	13
CO. DUBLIN						
CASEMENT AERODROME	47.5	92	14.5	24	14	8
DUBLIN (MERRION SQUARE)	36.2	74	10.6	24	14	7
DUBLIN AIRPORT	40.1	74	12.6	24	13	8
DUBLIN (PHOENIX PARK)	46.4	88	13.0	24	16	9
CO. GALWAY						
MAAM VALLEY	207.0	132	33.9	17	21	18
CO. KERRY						
ARDFERT (LISCAHANE)	80.3	116	25.3	16	19	12
VALENTIA OBSERVATORY	128.1	132	31.8	16	22	16
CO. KILKENNY						
THOMASTOWN (MT. JULIET)	41.3	64	8.7	13	15	11
CO. LIMERICK						
MOUNT RUSSELL	113.6	134	27.6	10	21	16
CO. MAYO						
BELMULLET	81.8	114	13.3	20	19	15
DELPHI LODGE	217.3		36.0	17	19	17
KNOCK AIRPORT	106.7	131	15.4	16	19	16
STRAIDE	95.3	126	18.4	16	19	15
CO. MEATH						
WARRENTOWN	59.8	100	16.0	24	14	11
CO. MONAGHAN						
CARRICKMACROSS (DUNOGE)	60.5	94	12.3	16	16	12
CO. OFFALY						
DERRYGREENAGH	58.9	95	14.0	24	17	12
CO. ROSCOMMON						
MOUNTDILLON	84.3	127	13.8	16	18	16
CO. SLIGO						
ARDTARMON	63.1	98	12.4	17	n/a	n/a
CO. TIPPERARY						
FETHARD (PARSONSHILL)	53.7	85	12.3	11	17	11
GURTEEN (AG. COLLEGE)	66.0	110	14.8	24	18	12
CO. WATERFORD						
DUNGARVAN (CARRIGLEA)	69.8	86	14.9	13	16	11
WATERFORD (TYCOR)	53.5	76	18.9	13	14	9
CO. WESTMEATH						
MULLINGAR	78.2	119	14.0	16	17	14
CO. WEXFORD						
CLONROCHE (KNOXTOWN)	54.5		16.7	13	14	10
JOHNSTOWN CASTLE	44.0	62	11.3	13	16	11
CO. WICKLOW						
ASHFORD (CRONYKEERY)	47.3	68	15.4	13	16	10

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

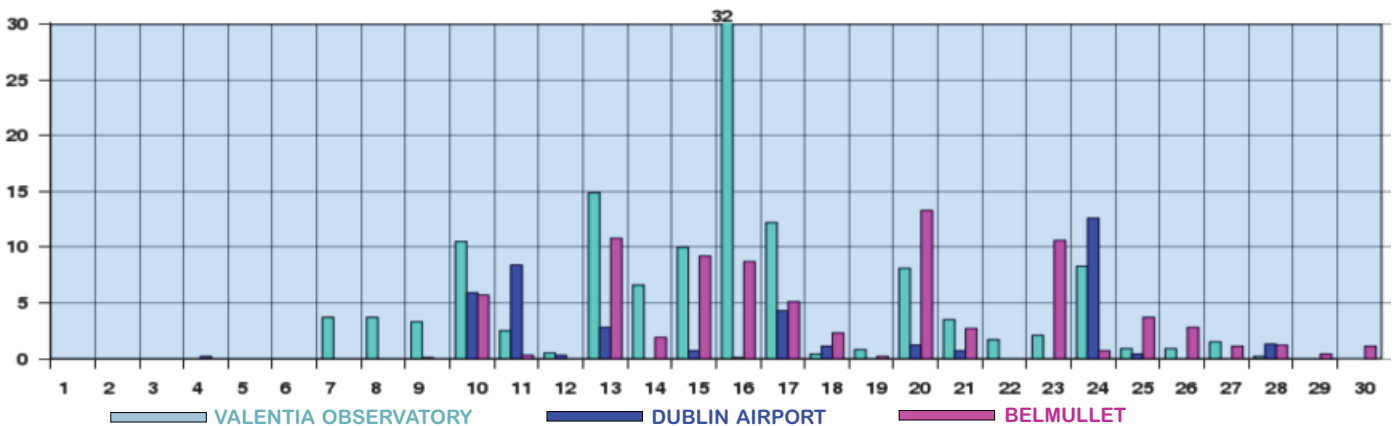
TOTAL RAINFALL (mm)



PERCENTAGE OF NORMAL RAINFALL
(1981-2010 NORMALS)



DAILY 09-09hr RAINFALL VALUES (mm)

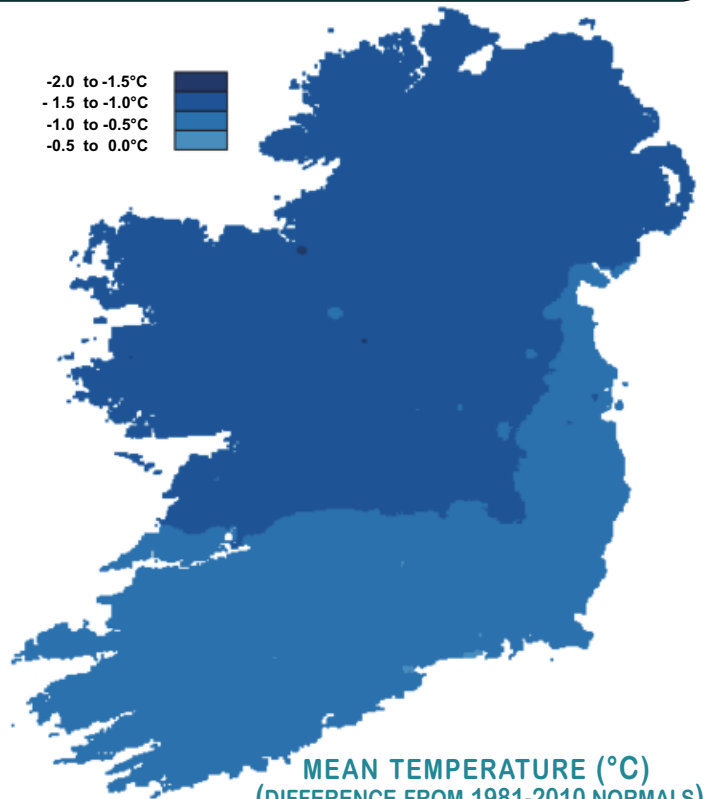


BELOW AVERAGE TEMPERATURES

EVERYWHERE

Mean temperatures were below their LTA everywhere. Deviations were greatest in the Northwest, West and Midlands. A temperature of 1.8°C below LTA was recorded at Markree, Co. Sligo, with a mean temperature of 6.8°C. Most mean monthly air temperatures were close to or just below 1.0°C of LTA. Mean temperatures ranged from 8.9°C at Dooks Co. Kerry to 6.3°C at Knock Airport Co. Mayo, Knock Airport's coldest April since 2000 (13 years). Delphi Lodge Co. Mayo reported a mean temperature of 7.5°C, its coldest April since records began in 1994 (19 years). Lowest minima were mainly recorded between the 5th and 6th and ranged from -7.3°C at Mount Dillion on the 6th, its lowest April minimum since the station opened in 2008 to 0.4°C at Newport Co. Mayo on the 5th, its lowest April minimum since 2006. Dublin Airport recorded a minimum of -5.6°C, its lowest minimum for April since 1942 (71 years). The majority of stations report their lowest minima for April since station records began. Mean maximum temperatures were below LTA, with differences by as much as -2.1°C at Markree, Co. Sligo. Many stations recorded their highest maxima between the 15th and 23rd, with the

-2.0 to -1.5°C
-1.5 to -1.0°C
-1.0 to -0.5°C
-0.5 to 0.0°C

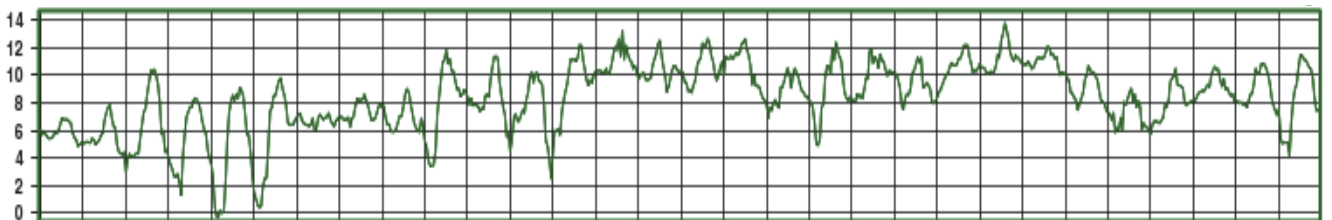


MEAN TEMPERATURE (°C)
(DIFFERENCE FROM 1981-2010 NORMALS)

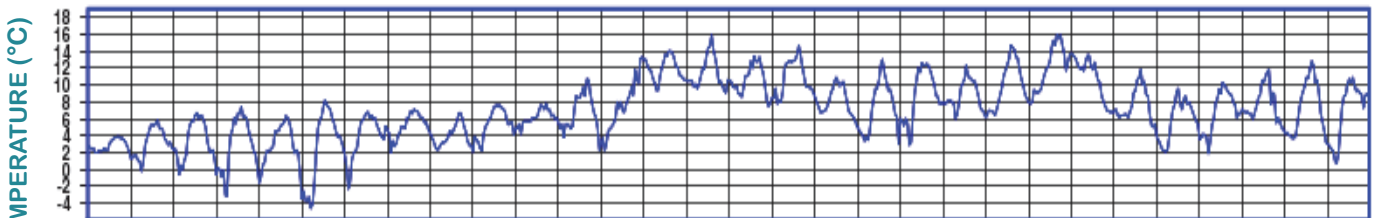
month's highest temperature of 21.5°C at Clover Hill Co. Cork on the 23rd. Phoenix Park, Mullingar, Casement and Merrion Sq. recorded their lowest maxima of 4.3°C, 3.7°C, 3.8°C and 4.3°C respectively for April since 1966 (47 years). The month's lowest grass minimum temperature was -13.5°C on the 3rd at Straide Co. Mayo.

HOURLY TEMPERATURES APRIL 2013

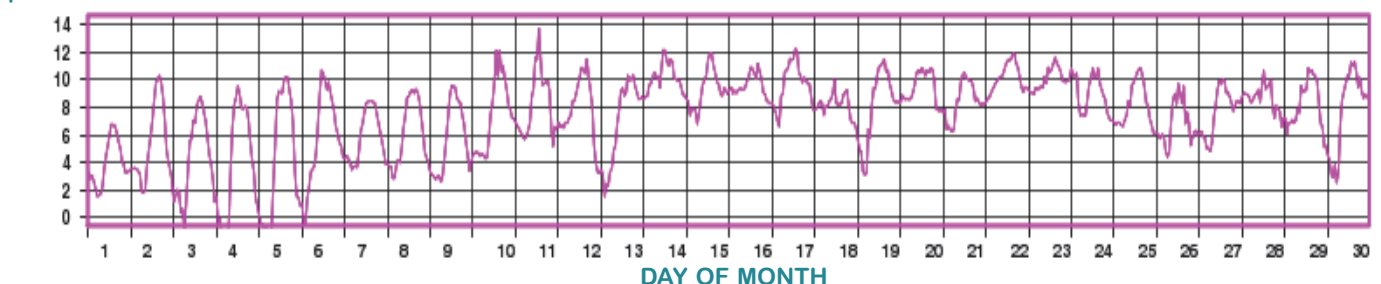
VALENTIA OBSERVATORY



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			MIN./DATE	MIN./DATE	AIR	GROUND
CO. CARLOW										
CARLOW (OAK PARK)	11.4	3.8	7.6	-1.3	17.4 23	-3.8 6	-9.8 6	4	12	
CO. CAVAN										
BALLYHAISE	10.7	2.9	6.8	-1.5	15.1 22	-6.0 6	-8.0 6	9	11	
CO. CLARE										
CARRON	11.0	3.5	7.2	-1.0	14.0 15 20	-3.6 6	-11.8 5	6	15	
SHANNON AIRPORT	11.9	4.8	8.4	-1.1	15.9 23	-2.9 4	-6.6 6	4	9	
CO. CORK										
BALLINCURRIG (PEAFIELD)	11.6	3.5	7.6	-0.5	20.1 23	-3.5 6	-4.4 6	4	6	
CORK AIRPORT	10.7	4.3	7.5	-0.9	17.9 23	-0.7 5	-6.6 13	3	7	
FERMOY (MOORE PARK)	11.6	4.2	7.9	-0.5	18.7 23	-5.1 6	-9.0 6	5	8	
ROCHE'S POINT	10.7	5.5	8.1	-1.0	17.8 22	-0.3 6	-4.1 6	1	3	
SHERKIN ISLAND	10.7	6.1	8.4	-1.1	13.8 22	-0.1 4	-1.7 4	1	3	
CO. DONEGAL										
BALLYSHANNON (CATHLEEN'S FALL)	10.8	3.4	7.1	-1.3	15.4 17	-2.4 5	n/a n/a	5	n/a	
GLENTIES HATCHERY	11.7	2.6	7.1	-1.1	15.8 17	-5.2 5	-10.1 3	6	17	
MALIN HEAD	9.8	4.4	7.1	-1.2	15.6 14	-1.0 6	-3.1 6	1	6	
CO. DUBLIN										
CASEMENT AERODROME	11.1	3.1	7.1	-1.1	16.2 23	-5.9 6	-9.5 6	4	14	
DUBLIN (MERRION SQUARE)	11.4	5.3	8.3	-1.1	17.1 23	-0.3 6	n/a n/a	1	n/a	
DUBLIN AIRPORT	11.1	3.0	7.1	-1.2	16.6 22	-5.6 6	-10.1 6	6	12	
DUBLIN (PHOENIX PARK)	11.6	3.9	7.8	-0.7	17.0 23	-3.8 6	-9.6 6	3	18	
CO. GALWAY										
MAAM VALLEY	11.5	4.0	7.7	-1.2	14.2 23	-1.9 5	-6.7 5	5	12	
CO. KERRY										
ARDFERT (LISCAHANE)	12.4	4.2	8.3	-0.8	17.1 23	-4.1 5	-5.0 5	4	4	
VALENTIA OBSERVATORY	11.0	5.9	8.4	-1.0	14.1 23	-1.0 5	-4.7 5	2	6	
CO. KILKENNY										
THOMASTOWN (MT. JULIET)	11.9	3.2	7.6	-0.9	18.1 23	-6.8 6	-10.3 6	8	13	
CO. LIMERICK										
MOUNT RUSSELL	10.8	3.8	7.3	-0.9	18.5 23	-3.0 5	-8.8 5	4	11	
CO. MAYO										
BELMULLET	11.0	4.2	7.6	-1.4	14.0 11	-2.1 4	-5.6 4	4	7	
DELPHI LODGE	11.3	3.7	7.5	-1.6	13.7 23	-4.2 5	-7.9 5	5	9	
KNOCK AIRPORT	10.0	2.6	6.3	-1.2	14.0 17	-1.8 4	-3.2 4	7	10	
STRAIDE	12.1	2.8	7.5	-1.1	14.9 17	-6.0 4	-13.5 3	6	19	
CO. MEATH										
WARRENTOWN	11.6	3.4	7.5	-0.9	16.6 23	-5.4 6	-10.8 6	6	17	
CO. MONAGHAN										
CARRICKMACROSS (DUNOGE)	11.2	3.2	7.2	-1.0	16.1 15	-5.0 6	-7.9 6	3	19	
CO. OFFALY										
DERRYGREENAGH	11.9	2.5	7.2	-0.9	16.1 23	-5.4 6	-12.1 6	8	19	
CO. ROSCOMMON										
MOUNTDILLON	11.5	2.0	6.8	-1.6	15.3 15	-7.3 6	-11.1 6	11	16	
CO. SLIGO										
ARDTARMON	11.9	4.2	8.1	-0.9	16.7 17	-0.7 4	-6.5 4	2	14	
CO. TIPPERARY										
FETHARD (PARSONSHILL)	11.0	3.4	7.2	-0.8	17.6 23	-1.9 6	-5.2 6	4	5	
GURTEEN (AG.COLLEGE)	11.2	2.9	7.1	-1.1	15.5 23	-5.6 6	-11.6 6	4	16	
CO. WATERFORD										
DUNGARVAN (CARRIGLEA)	12.4	4.7	8.5	-0.5	19.0 23	-3.1 6	-7.3 6	1	8	
WATERFORD (TYCOR)	12.2	5.1	8.6	-0.5	18.7 23	-0.8 6	n/a n/a	1	n/a	
CO. WESTMEATH										
MULLINGAR	11.1	2.6	6.9	-1.3	15.4 15	-6.5 6	-11.3 6	8	16	
CO. WEXFORD										
CLONROCHE (KNOXTOWN)	11.3	3.4	7.4	-0.6	17.4 23	-4.5 6	-8.6 6	5	12	
JOHNSTOWN CASTLE	10.7	4.7	7.7	-0.8	15.4 24	-0.3 6	-4.7 7	1	7	
CO. WICKLOW										
ASHFORD (CRONYKEERY)	11.8	4.3	8.0	-0.6	18.8 23	-2.3 7	-9.9 7	4	18	

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

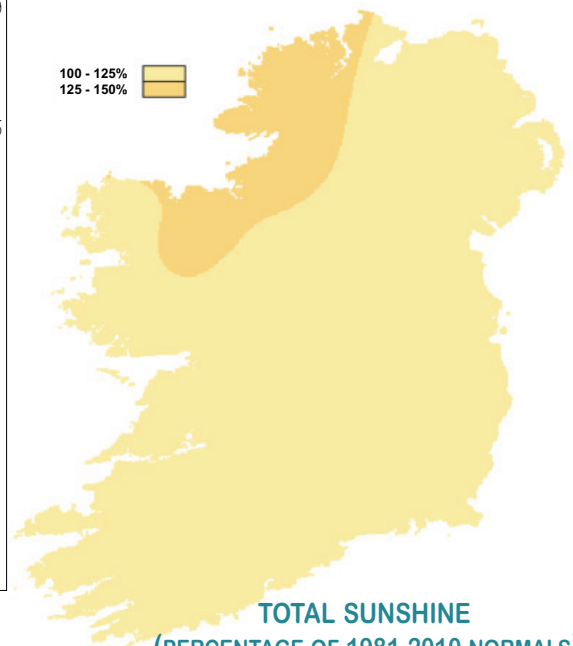
COUNTY/ STATION	DAILY MEAN (HOURS/DAY)	% OF 1981-2010 LTA	DULL DAYS (<0.5 HRS)	MOST IN A DAY/DATE
CO. CLARE				
SHANNON AIRPORT	6.29	122	5	12.0 3
CO. CORK				
BALLINCURRIG (PEAFIELD)	5.65	105	6	12.6 27
CORK AIRPORT	5.60	105	7	12.8 27
SHERKIN ISLAND	6.03	102	8	12.1 29
CO. DONEGAL				
BALLYSHANNON (CATHLEEN'S FALL)	6.56	131	4	12.5 19 29
CO. DUBLIN				
CASEMENT AERODROME	5.32	105	7	11.0 3
DUBLIN (GLASNEVIN)	5.94	114	4	11.3 29
DUBLIN AIRPORT	5.51	105	5	11.3 3 27
CO. KERRY				
ARDFERT (LISCAHANE)	6.31	119	3	11.8 4
VALENTIA OBSERVATORY	5.18	100	6	11.5 3
CO. MAYO				
BELMULLET	6.00	115	1	11.5 3
KNOCK AIRPORT	5.98	125	3	11.4 2
NEWPORT (FURNANCE)	4.92	104	3	10.7 3 19
STRAIDE	6.46	133	2	12.0 2
CO. WATERFORD				
DUNGARVAN (CARRIGLEA)	5.60	105	5	11.4 3 16
CO. WEXFORD				
CLONROCHE (KNOXTOWN)	6.12	115	5	12.5 27
J.F.K PARK	5.80	109	4	11.3 20
WEXFORD (WILDFOWL RESERVE)	5.85	114	5	12.5 30
CO. WICKLOW				
ASHFORD (CRONYKEERY)	5.74	114	5	13.1 29

* ESTIMATED DATA USED IN CALCULATION.

MAINLY SUNNY, BUT SUNNIEST IN THE NORTHWEST

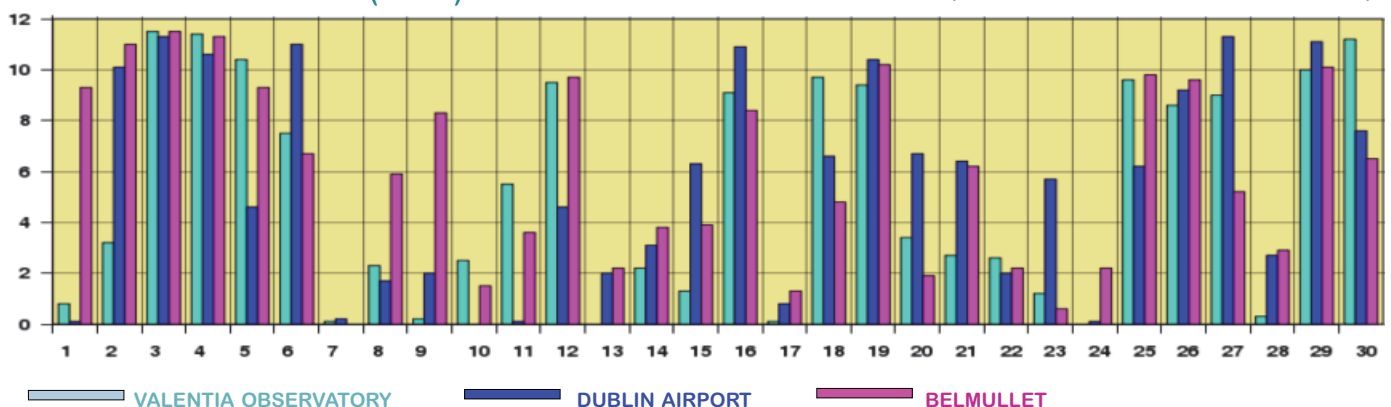
Sunshine totals were on or above LTA everywhere. Percentage of LTA values ranged from 100% at Valentia Observatory Co. Kerry with 155.3 hours of sunshine, to 133% at Straide, Co. Mayo with 193.8 hours of sunshine. Ballyshannon (Cathleen's Fall), Co. Donegal recorded the highest monthly sunshine hours with 196.8 hours. Most stations reported it was duller in 2012 but sunnier in 2011. The sunniest day was at Ashford (Cronykeery), Co. Wicklow on the 29th with 13.1 hours of sunshine. Newport Furnace's sunniest days of 10.7 hours of sunshine on the 3rd and 19th was its lowest maximum daily sunshine hours in April since 2001 (12 years). Belmullet recorded the smallest number of dull days with just one on the 7th.

Percentage of LTA global solar radiation values were all above average with the highest value of 117% at Malin Head.

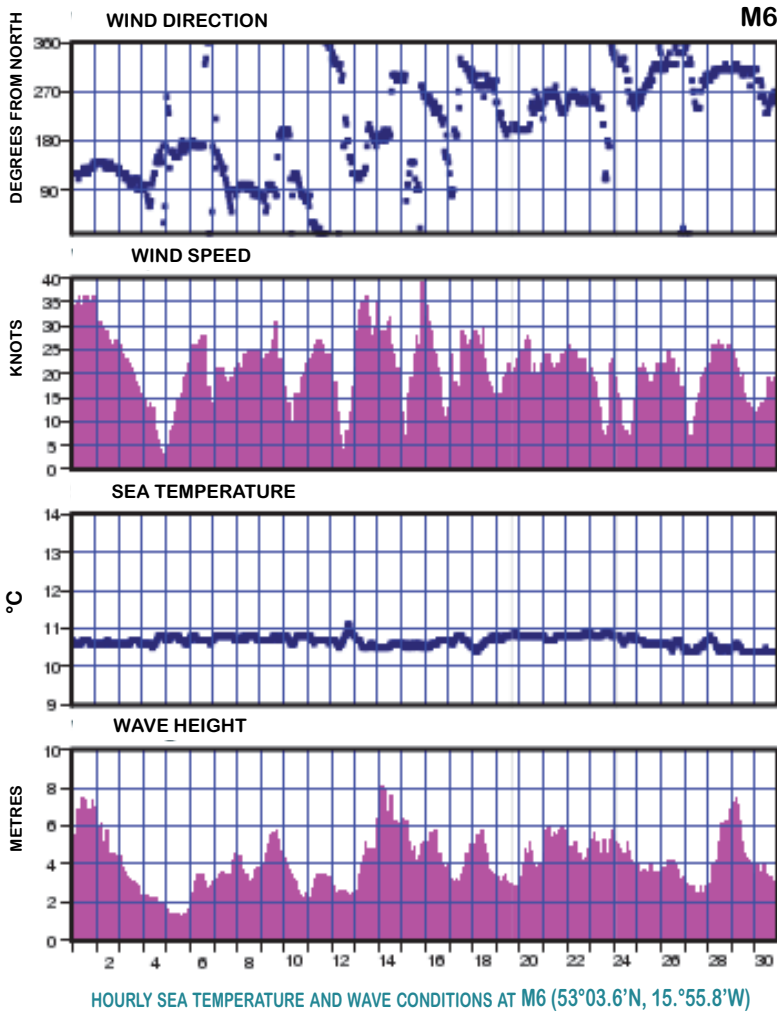


TOTAL SUNSHINE (PERCENTAGE OF 1981-2010 NORMALS)

DAILY SUNSHINE VALUES (HOURS)

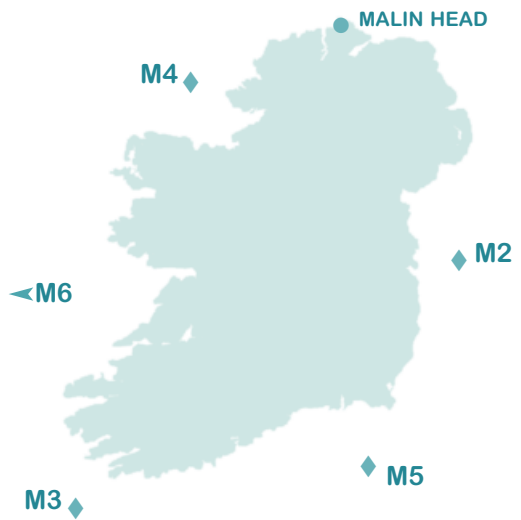


MARINE OBSERVATIONS FROM IRISH MARINE DATA BUOY NETWORK

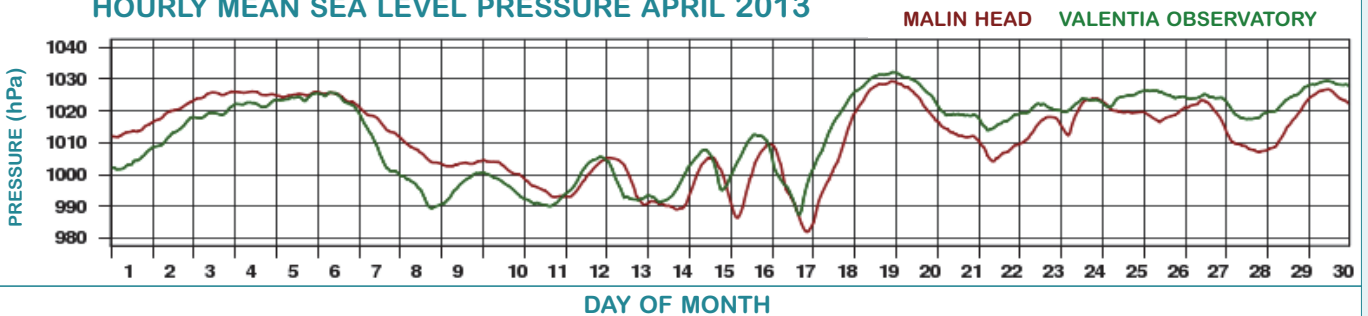


BUOY	SEA SURFACE TEMP. (°C)	MEAN WIND SPEED (knots)	MAX 10-MIN WIND (knots)	MEAN SIGNIFICANT WAVE HEIGHT (m.)	MAX SIGNIFICANT WAVE HEIGHT (m.)
M2	7.3	14.2	33.9	n/a	n/a
M3		not available			
M4		not available			
M5	8.6	15.7	32.6	n/a	n/a
M6	10.7	19.8	39.0	4.0	8.1
MALIN HEAD	7.6				

SUMMARY OF MEAN MONTHLY VALUES

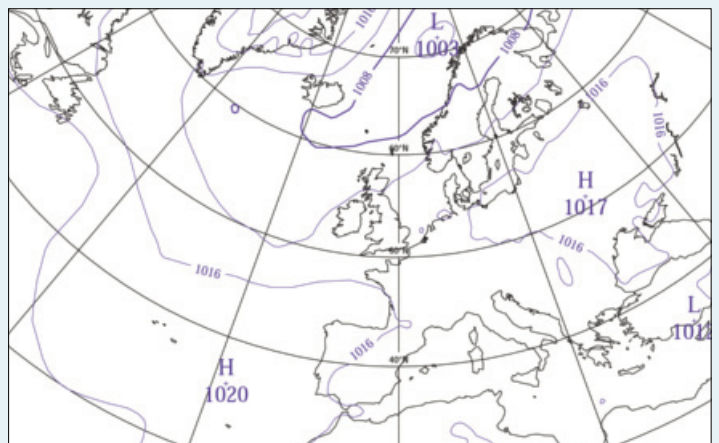


HOURLY MEAN SEA LEVEL PRESSURE APRIL 2013



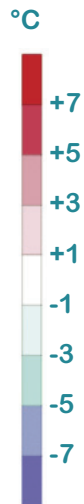
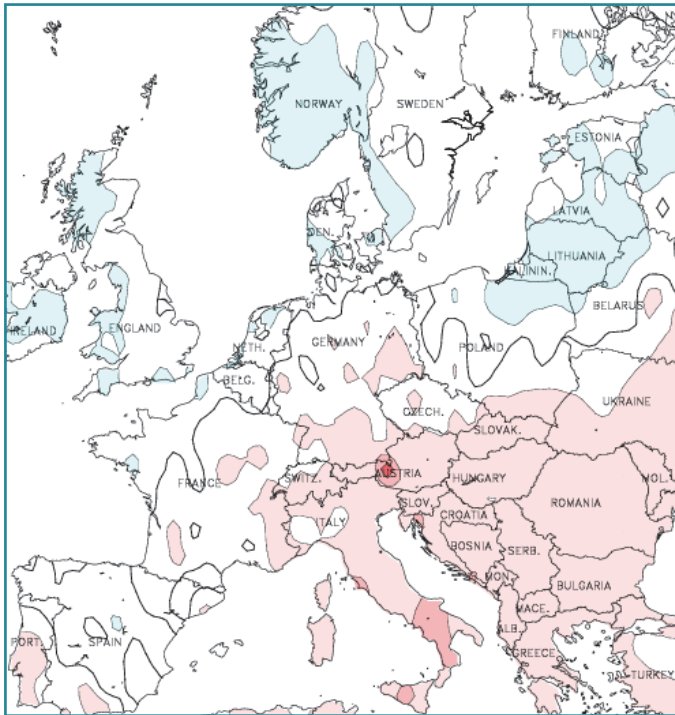
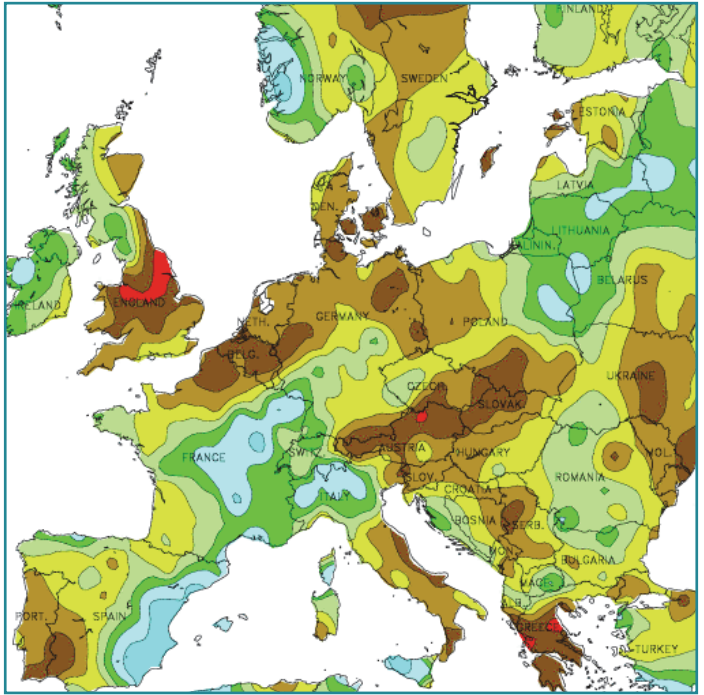
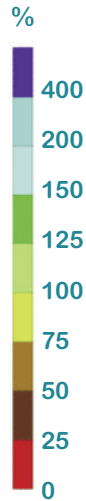
ATMOSPHERIC PRESSURE

Monthly mean sea level pressure values ranged from 1013.7 hPa in the Southeast to 1011.7 hPa in the West. The month's highest pressure value was 1032.9 hPa recorded at Cork Airport on the 20th as a ridge of high pressure crossed the area. The month's lowest pressure value was 981.9 hPa recorded at Malin Head and Belmullet on the 17th, as a depression to the West of Ireland tracked northeastwards.



MONTHLY MEAN MSL PRESSURE, BASED ON 1200 UTC VALUES

APRIL RAINFALL
(PERCENTAGE OF 1961-1990 NORMAL)



APRIL MEAN TEMPERATURE
(DIFFERENCE FROM 1961-1990 NORMAL)

DATA SUPPLIED BY NOAA
CLIMATE PREDICTION CENTRE,
US DEPARTMENT OF COMMERCE

A world map with callout boxes providing weather highlights for April 2013. The map uses a color gradient from green (temperate) to red (hot) to blue (cold).

GLOBAL WEATHER HIGHLIGHTS OF THE MONTH

- North America:** A week of heavy rains caused flooding in multiple Midwestern states in April 2013. Flooding swelled the Mississippi and Illinois Rivers near their confluence north of St. Louis. The Associated Press reported that some areas received up to 18 cm of rain, and some rivers burst their banks. High water forced road closures and evacuations, and inundated thousands of acres of farmland.
- Mediterranean:** Dust plumes blew over the Mediterranean Sea in early April 2013. Thick plumes hovered off the coasts of Libya and Egypt on April 7th and spanned the sea's eastern shoreline the following day, reaching as far north as Turkey. News reports from Cyprus carried warnings that sensitive individuals should stay indoors to avoid breathing dust particles.
- West Africa:** The warmest temperature measured in the northern hemisphere and the world during April was a reading of 47.0°C at Matam, Senegal on April 16th. The Seychelles International Airport recorded 34.8°C on April 10th, the highest temperature ever on record for any inhabited location in the Seychelles Islands.
- Antarctica:** The coldest temperature in the southern hemisphere and the world during April was -76.3°C recorded at Dome Fuji, Antarctica on April 3rd.
- New Zealand:** Farmers in New Zealand rejoiced mid-month when rains started to break one of the worst droughts to hit the country in decades. Much of the country reached drought status in late February and experienced unusually low levels of rain throughout the summer. The situation on North Island, in particular, worsened throughout March and by early April, climate and weather experts had started calling it the worst drought on North Island in 70 years. The area around Wellington recorded no rainfall between February 13th and March 17th.