

MONTHLY WEATHER BULLETIN

NO. 337
JUNE 2014



Rows of 'Cailleach dhearg' or the common poppy covered a small nature park near Nurney, Co Kildare in late June. Poppies, a wildflower which bloom between June and September are known as the international symbol of respect for those who lost their lives during both World Wars. The association stems from the growth of poppies in-between the trenches and No Man's Land on the Western Front during World War One. (Picture courtesy of Kieran Commins)

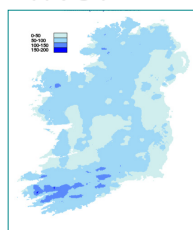
WARM EVERYWHERE; DROUGHT IN SCATTERED PARTS

Mean temperatures were all above average with differences from average up to 1.6°C at Ballincurrig (Peafield), Co Cork. Mean temperatures ranged from 13.5°C at Malin Head to 15.8°C at both Waterford (Tycor) and Dublin (Glasnevin). The majority of highest maxima were recorded between the 16th and 18th during

the mid-month period of high pressure, with the month's highest maximum of 27.6°C, recorded at Craggaunowen, Co Clare on the 17th, the site equalling its highest June temperature since 1995. The month's lowest air and grass minimum temperatures were nearly all recorded between the 4th and 6th or on the 29th, with the month's



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Above: Noctilucent clouds were captured in the sky over the Irish Sea at Bettystown Beach, Co Meath on the evening of June 19th. These clouds are located as high as 85 km above the earth's surface and are comprised of crystals of ice. Noctilucent roughly translates from Latin to 'night shining'. These clouds are most commonly observed in the summer months between latitudes of 50° and 70° and can only be seen when the sun is below the horizon. (Picture courtesy of Donal Black)

lowest air temperature of 0.5°C reported at Castleconnell Co Limerick on the 5th. A few isolated stations in the Southwest and West reported their lowest June temperatures in 13 to 23 years, with Valentia Observatory reporting its lowest June temperature since 1986 with 4.2°C.

The majority of stations reported below average rainfall, with the exception of areas in the South and isolated areas in the Midlands and West. Around one tenth of stations scattered across the country reported a period of absolute drought (*15 or more consecutive days to none of which 0.2mm or more is credited*) and less than 50% of their normal rainfall for June. Percentage of LTA rainfall values and monthly accumulations (in areas below 200 m) ranged from 21% and 15.8 mm at Inishere, Co Galway to 140% and 139.7 mm at Ballingearry (Vocational School), Co Cork. Overall, the highest accumulation was at a gauge in the Cummeragh Mountains, Co Kerry with 172.9 mm. Most stations reported their driest June conditions in four to eight years. The wettest day of the month was the 9th at Pettigo (Belault), Co Donegal with 58.5 mm, over two-thirds of its monthly total of 88.6 mm, its wettest day at the site since it opened in 2004.

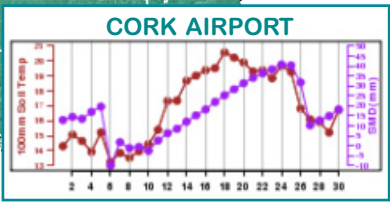
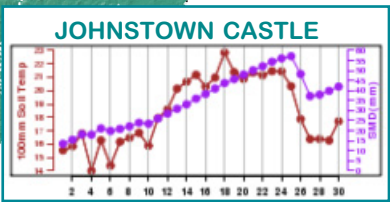
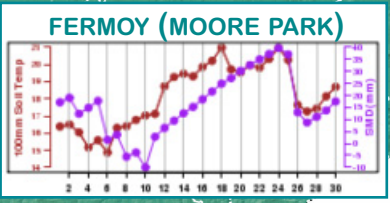
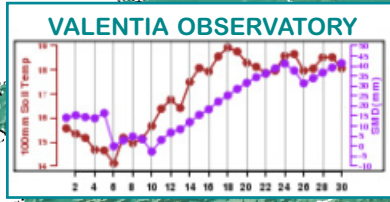
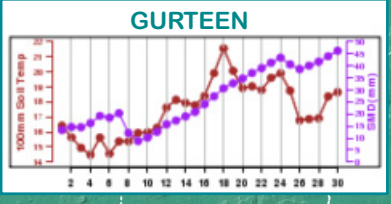
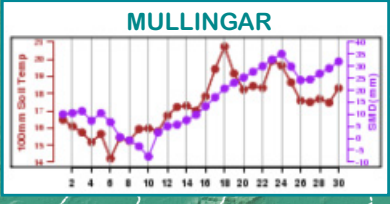
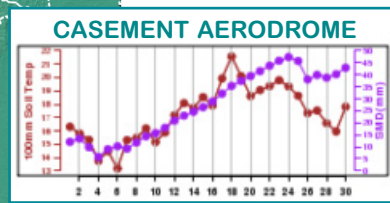
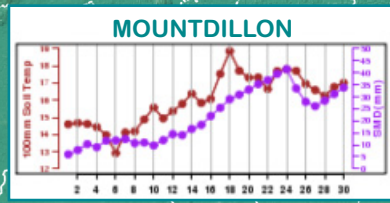
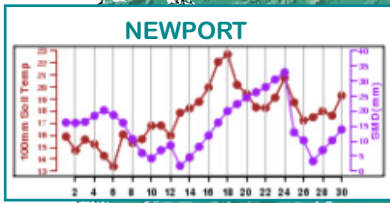
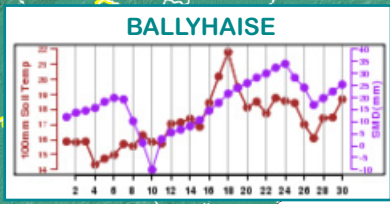
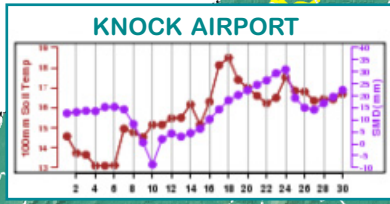
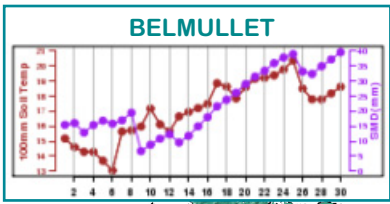
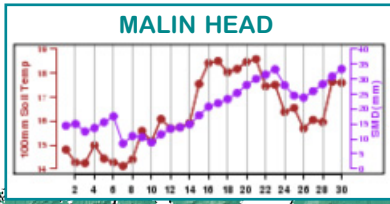
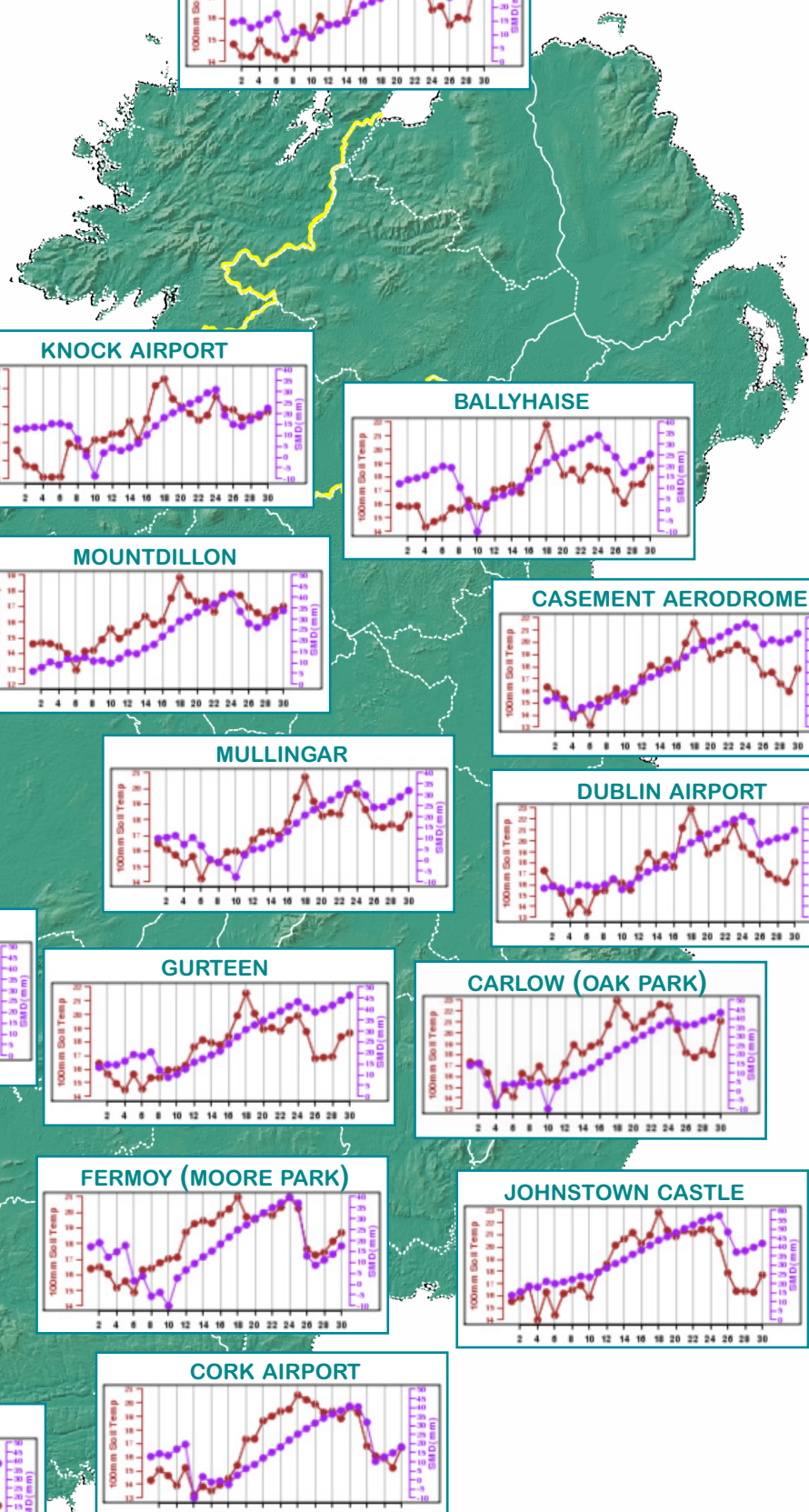
Sunshine totals were near or above average with percentage of LTA values ranging from 94% at Straide, Co Mayo to 164% at Valentia Observatory, Co Kerry. Mean daily sunshine values ranged from 4.86 hours per day at

Newport (Furnace), Co Mayo to 8.76 hours per day at Valentia Observatory. Valentia reported its sunniest June in 74 years and its second highest June sunshine total since 1893 (121 years). The month's sunniest day was recorded at Belmullet on the 17th with 15.8 hours, its sunniest June day in 19 years. The number of dull days (*less than 0.5 hours of sunshine*) ranged from one day at three stations in the East and Southeast to six days at three stations in the West and Northwest.

Wind and Elements

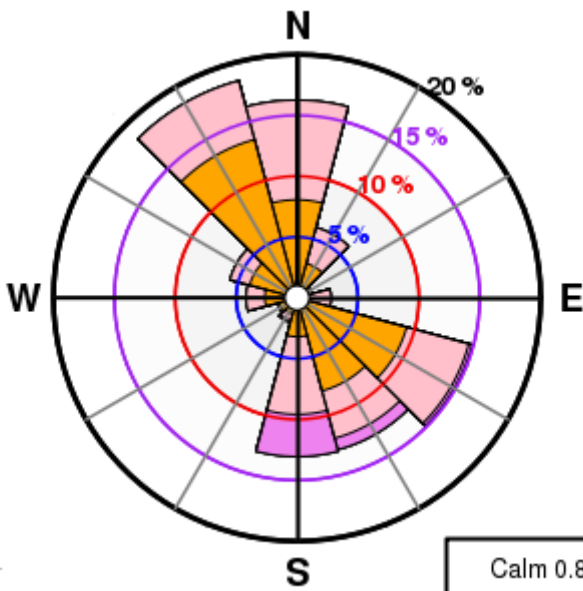
Monthly mean wind speeds ranged from 4.6 knots (*9 km/h*) at Mullingar, Co Westmeath to 9.4 knots (*17 km/h*) at Mace Head, Co Galway. Due to high pressure during the month, monthly mean wind speeds in the West, Southwest, South and parts of the Midlands and East were the lowest in at least six years with Mullingar reporting the longest series of observations exceeded with its calmest June in 64 years (1950). No gale force winds were reported during the month, with gusts greater than 34 knots only reported on the 4th and 6th at three stations all in the South and Southwest. The month's highest gust was 45 knots (*83 km/h*) at Valentia Observatory on the 6th. Thunderstorm activity occurred on numerous days with most severe activity between the 7th and 10th, with one report of a funnel cloud in the Kerry region on the 10th. Eight days reported fog, all in the eastern coastal counties and in Tipperary, Offaly and Mayo.

DAILY SOIL MOISTURE DEFICITS & SOIL TEMPERATURES



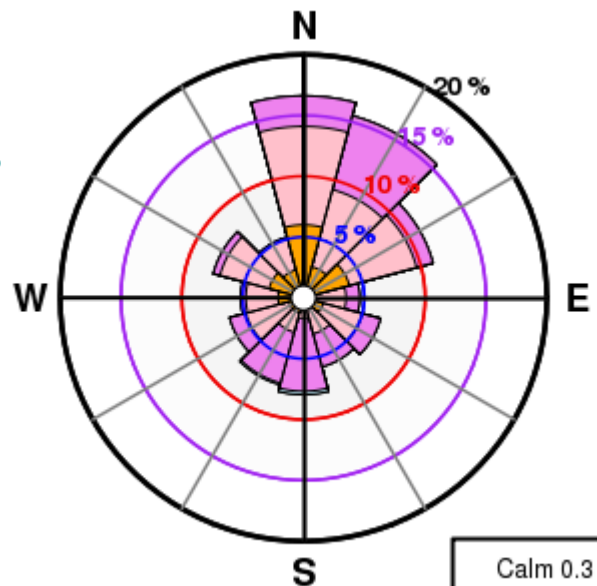
COUNTY / STATION	WIND (knots)										ELEMENTS (no.of days)					
	MEAN SPEED	MAX. 10-MIN. DIR.	MEAN SPEED	MEAN DATE/HOUR	MAX. DIR.	GUST SPEED	GUST DATE/TIME	DAYS WITH		HOURS WITH		SNOW	SNOW LYING	HAIL	THUNDER	FOG
								GALES	GUST > 34KNOTS	GUST > 34KNOTS	GUST > 34KNOTS					
CO CARLOW OAK PARK	5.3	170°	19	8/12	180°	27	8/1226	0	0	0						
CO CAVAN BALLYHAISE	4.6	120° 160°	15 15	6/13 8/15	150°	26	8/1509	0	0	0						
CO CLARE SHANNON AIRPORT	6.8	140° 160°	20 20	7/16 8/13	140° 160°	31 31	7/1516 9/1253	0	0	0	0	0	1	1	1	
CO CORK FERMOY (MOORE PARK)	5.0	90°	17	6/08	100°	26	6/0848	0	0	0						
SHERKIN ISLAND	8.9	110°	24	6/05	120°	34	6/0539	0	1	1						
ROCHE'S POINT	9.1	330°	25	4/10	320°	34	4/1052	0	1	1						
CORK AIRPORT	7.6	100°	21	6/06	330°	32	4/1038	0	0	0	0	0	0	0	4	
CO DONEGAL MALIN HEAD	9.3	100°	26	6/13	100°	31	6/1312	0	0	0						
FINNER	7.3	110°	20	6/15	100°	29	6/1325	0	0	0						
CO DUBLIN DUBLIN AIRPORT	7.6	120° 180°	19 19	6/13 8/17	130°	28	9/1116	0	0	0	0	0	1	1	0	
CASEMENT AERODROME	5.9	180°	21	8/14	210°	30	8/1308	0	0	0	0	0	0	0	0	
CO GALWAY MACE HEAD	9.4	90°	25	6/17	90°	34	6/1731	0	1	1						
ATHENRY	5.6	110°	18	6/10	90°	28	6/1021	0	0	0						
CO KERRY VALENTIA OBSERVATORY	7.0	80°	24	6/06	90°	45	6/0431	0	2	9						
CO MAYO CLAREMORRIS	6.5	110°	19	6/12	110°	28	6/1302	0	0	0						
BELMULLET	8.3	190°	26	1/14	190°	32	1/1454	0	0	0						
NEWPORT	7.3	160°	23	7/16	160°	33	7/1610	0	0	0						
KNOCK AIRPORT	7.1	110°	21	6/12	120°	31	6/1115	0	0	0	0	0	2	4	1	
CO MEATH DUNSANY (GRANGE)	5.5	190°	17	8/12	190°	26	8/1247	0	0	0						
CO ROSCOMMON MOUNTDILLON	5.9	110°	17	6/14	90°	25	6/1759	0	0	0						
CO TIPPERARY GURTEEN (AG COLLEGE)	6.2	100° 170°	19 19	6/12 8/12	110°	28	6/1909	0	0	0						
CO WESTMEATH MULLINGAR	4.6	180°	15	8/14	170°	24	8/1512	0	0	0						
CO WEXFORD JOHNSTOWN CASTLE	6.9	170°	19	8/10	170°	28	8/1056	0	0	0						

CARLOW (OAK PARK)



Calm 0.8 %

BELMULLET

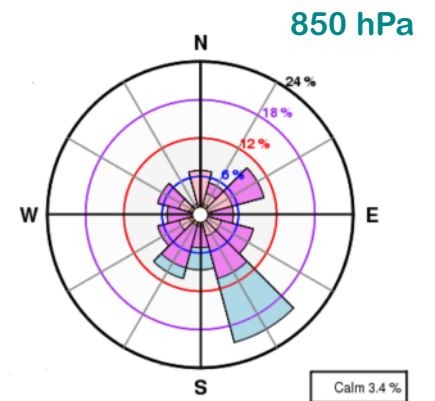
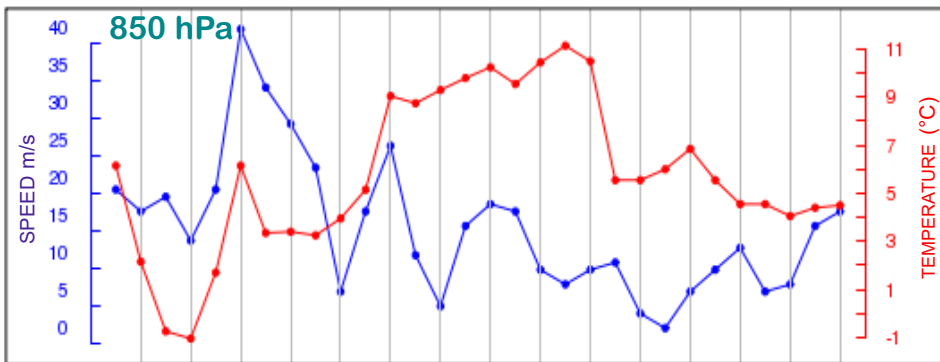
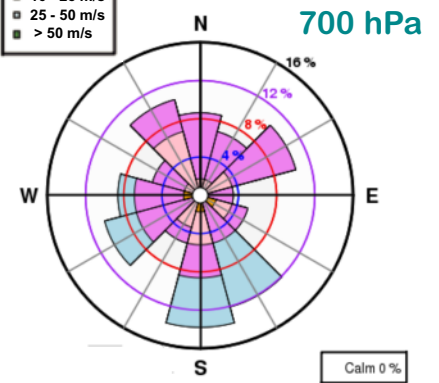
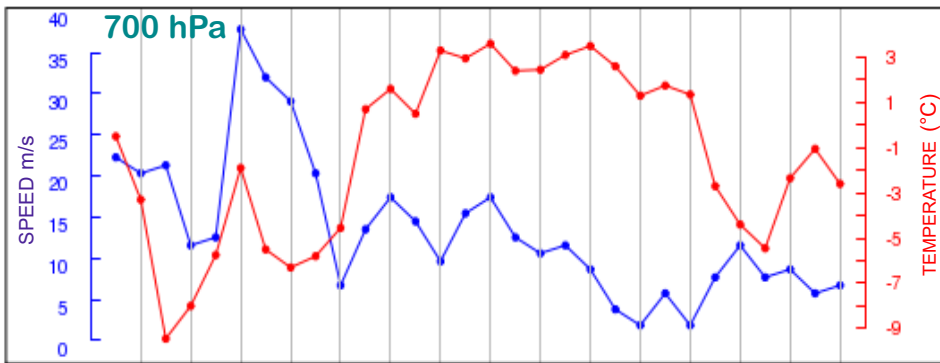
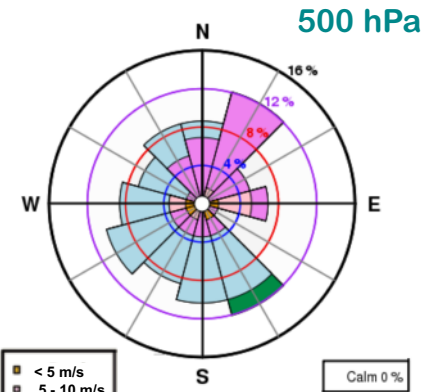
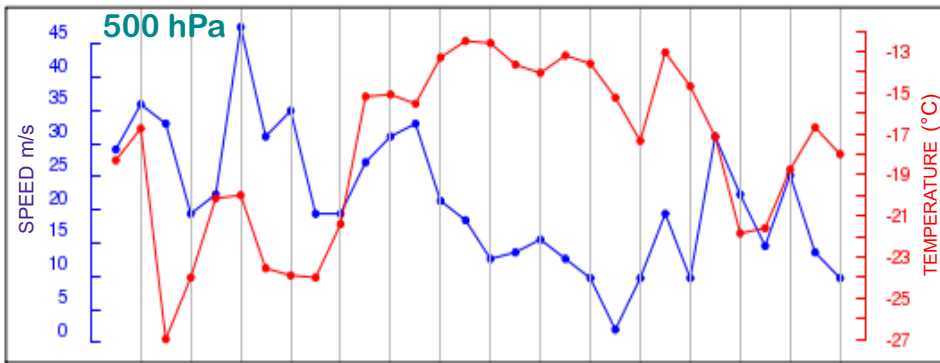
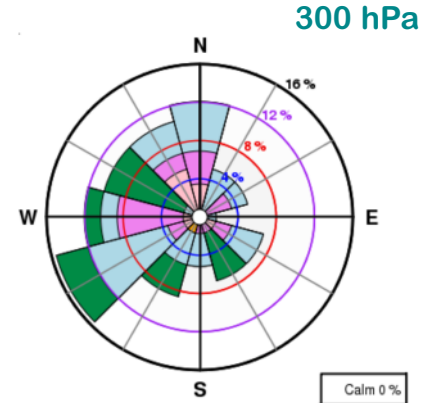
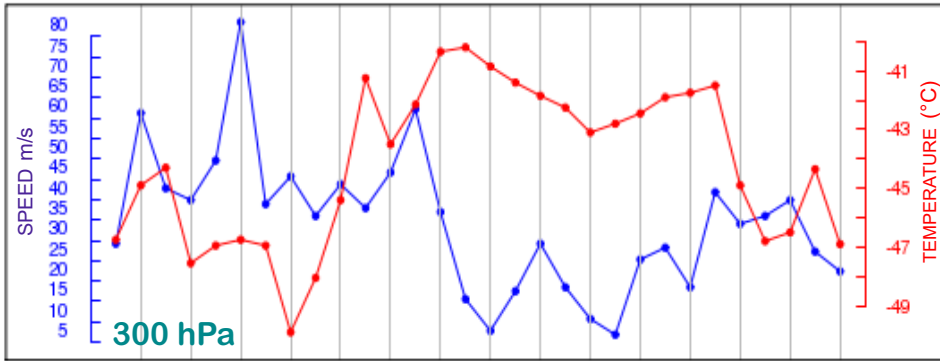


Calm 0.3 %

PERCENTAGE FREQUENCY OF WIND DIRECTION

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

UPPER AIR WIND SPEED AND TEMPERATURE JUNE 2014



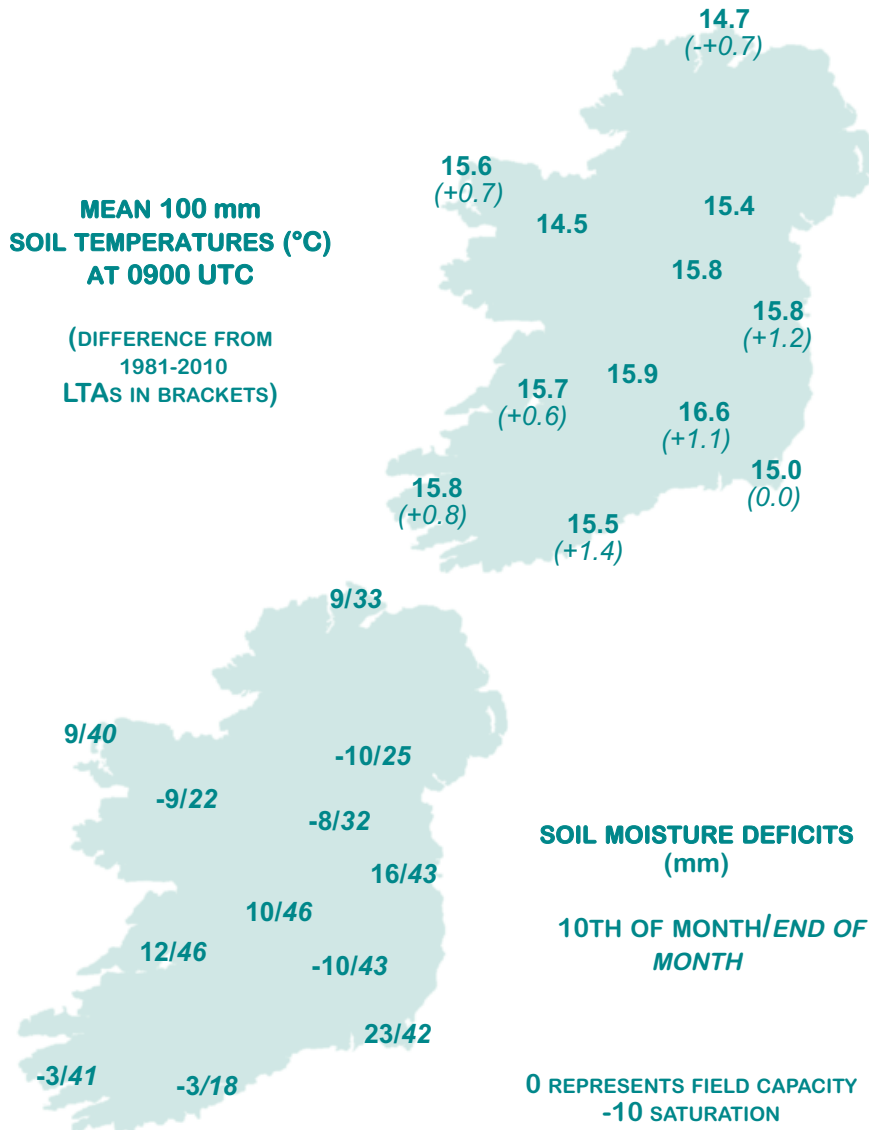
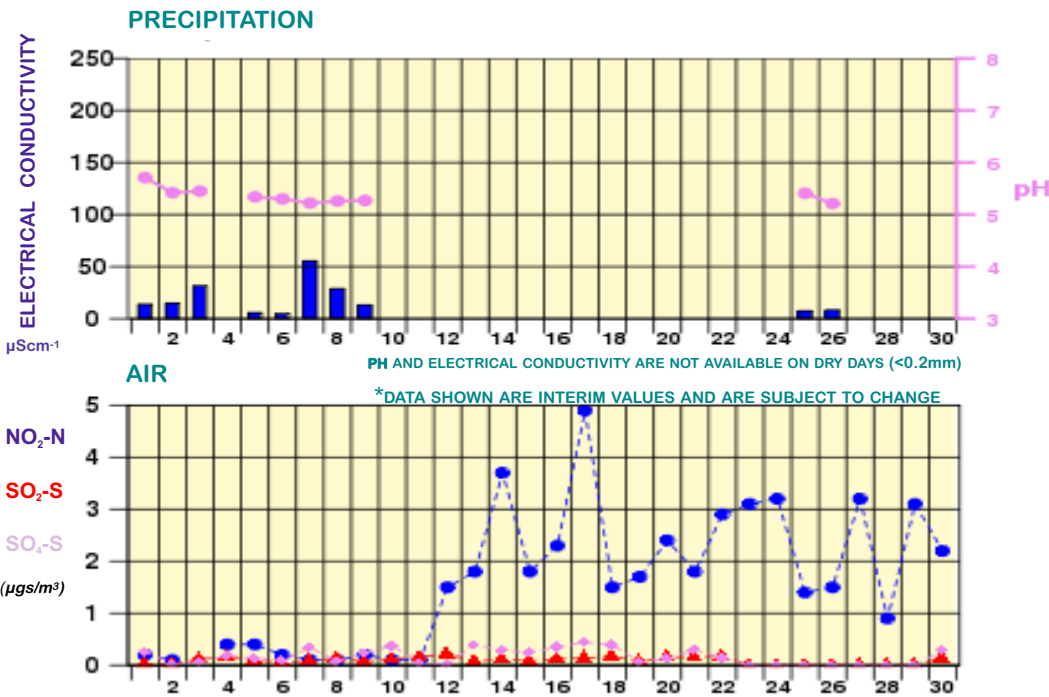
DAY OF MONTH

CHEMICAL ANALYSIS OF PRECIPITATION AND AIR SAMPLES AT VALENTIA OBSERVATORY

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

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

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



MEAN SOIL TEMPERATURES (°C) AT 0900 UTC

COUNTY/STATION	100 mm	200 mm	300 mm
CO CARLOW			
CARLOW (OAK PARK)	16.6	16.1	16.2
CO. CAVAN			
BALLYHAISE	15.4	15.3	15.7
CO CLARE			
SHANNON AIRPORT	15.7	15.7	15.7
CARRON	15.6		15.8
CO CORK			
ROCHE'S POINT	16.6	16.1	16.4
FERMOY (MOORE PARK)	16.5	16.2	16.5
CORK AIRPORT	15.5	14.9	15.4
SHERKIN ISLAND	16.3	15.8	15.6
BALINCURRIG (PEAFIELD)	16.0	15.0	15.6
CO DONEGAL			
MALIN HEAD	14.7	14.5	14.3
CO DUBLIN			
PHOENIX PARK	16.9	16.8	16.4
DUBLIN AIRPORT	15.6	15.4	15.8
CASEMENT AERODROME	15.8	15.3	15.5
CO KERRY			
VALENTIA OBSERVATORY	15.8	15.8	15.7
CO KILKENNY			
THOMASTOWN (MT JULIET)	17.1	16.9	16.9
CO LIMERICK			
MOUNT RUSSELL	n/a	n/a	n/a
CO MAYO			
BELMULLET	15.6	15.9	16.4
STRAIDE	15.8		
KNOCK AIRPORT	14.5	14.7	14.3
CO MEATH			
WARRENSTOWN	15.2	15.8	17.1
DUNSANY (GRANGE)	15.5	15.8	16.1
CO TIPPERARY			
GURTEEN (AG COLLEGE)	15.9	15.9	16.0
FETHARD (PARSONSHILL)	15.3	16.0	
CO WATERFORD			
DUNGARVAN (CARRIGLEA)	16.5	16.5	
CO WESTMEATH			
MULLINGAR	15.8	15.9	16.1
CO. WEXFORD			
JOHNSTOWN CASTLE	16.9	16.3	16.3
JFK PARK	16.6	16.5	16.7
CO WICKLOW			
ASHFORD (CRONYKEERY)	17.5	16.8	16.6

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
BALLINCURRIG	11-20	0.2	0	0	22.2	10.9	16.6	8.7	11	0	121	66	8.5	11	0	17.3	16.6	81.9			
(PEAFIELD)	21-END	46.0	3	3	20.2	10.8	15.5	8.6	28	0	111	56	8.4	28	0	16.9	16.6	48.6			
MONTH		105.6	120	12	9	19.6	10.3	14.9	1.6	3.8	5	0	316	153	3.6	5	0	16.0	15.6	174.8	98
CO DONEGAL	1-10	41.2	8	6	17.2	9.4	13.3	5.8	6	0	89	36	3.4	6	0	-	-	-			
GLENTIES HATCHERY	11-20	5.2	3	1	20.0	10.3	15.2	5.6	16	0	108	54	3.2	16	0	-	-	-			
	21-END	6.4	2	2	19.0	8.6	13.8	1.9	29	0	95	44	0.1	29	0	-	-	-			
MONTH		52.8	56	13	9	18.8	9.4	14.1	1.0	1.9	29	0	292	135	0.1	29	0	-	-	-	-
CO KERRY	1-10	41.7	9	7	16.8	9.0	12.9	3.5	5	0	85	33	3.1	5	0	-	-	31.7			
ARDFERT	11-20	0.0	0	0	21.7	10.6	16.2	8.1	20	0	117	62	7.5	20	0	-	-	75.6			
(LISCAHANE)	21-END	16.4	3	3	20.4	10.6	15.5	8.0	22	0	111	57	7.2	22	0	-	-	64.7			
MONTH		58.1	81	12	10	19.7	10.1	14.9	1.0	3.5	5	0	314	151	3.1	5	0	-	-	172.0	111
CO MONAGHAN	1-10	43.6	7	7	17.6	9.1	13.4	4.1	6	0	90	37	-0.6	6	1	-	-	-			
CARRICKMACROSS	11-20	0.4	1	0	21.3	9.9	15.6	6.1	11	0	112	59	1.0	11	0	-	-	-			
	21-END	24.5	3	3	19.2	9.7	14.5	5.8	30	0	100	48	0.0	29	0	-	-	-			
MONTH		68.5	101	11	10	19.3	9.6	14.5	0.8	4.1	6	0	302	143	-0.6	6	1	-	-	-	-
CO WATERFORD	1-10	37.5	7	6	16.9	9.9	13.4	4.3	5	0	90	36	2.1	5	0	-	14.9	57.6			
DUNGARVAN	11-20	0.8	1	0	21.1	10.7	15.9	8.9	20	0	115	60	5.6	11	0	-	17.2	100.7			
(CARRIGLEA)	21-END	18.3	5	4	20.3	10.8	15.6	9.0	28	0	111	56	5.6	27	0	-	17.3	62.7			
MONTH		56.6	70	13	10	19.4	10.5	14.9	0.6	4.3	5	0	316	152	2.1	5	0	-	16.5	221.0	131
CO WEXFORD	1-10	38.7	8	8	16.2	9.8	13.0	4.8	5	0	86	32	4.6	5	0	14.7	15.4	35.9			
JFK PARK	11-20	0.0	0	0	20.8	11.9	16.3	9.4	11	0	119	63	7.2	20	0	17.4	17.0	78.1			
	21-END	15.7	2	2	19.2	10.7	15.0	7.6	29	0	106	50	3.2	30	0	17.6	17.7	62.4			
MONTH		54.4	71	10	10	18.7	10.8	14.8	1.1	4.8	5	0	311	146	3.2	30	0	16.6	16.7	176.4	111
CO WICKLOW	1-10	22.5	7	4	17.2	9.8	13.5	3.8	6	0	91	38	-1.4	6	1	15.6	15.2	47.6			
ASHFORD	11-20	0.0	0	0	19.4	9.6	14.5	7.3	11	0	101	48	2.3	11	0	18.0	16.8	102.0			
(CRONYKEERY)	1-END	6.5	1	1	18.4	9.2	13.8	4.5	30	0	94	42	-1.2	30	2	19.0	17.8	83.5			
MONTH		29.0	47	8	5	18.3	9.5	13.9	0.5	3.8	6	0	286	127	-1.4	6	3	17.5	16.6	233.1	128

P.E. (PENMAN)		GLOBAL SOLAR RADIATION (MJ/m²)				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)	88	CARLOW (OAK PARK)*	157.49	205.01	199.65	562.15			
CO CAVAN		CO CAVAN							
BALLYHAISE	83	BALLYHAISE*	160.41	189.31	170.34	520.06			
CO CLARE		CO CORK							
SHANNON AIRPORT	92	ROCHE'S POINT*	198.03	258.33	194.70	651.06	CO KERRY		
CO CORK		CO DONEGAL					VALENTIA OBSERVATORY	55.5	104.8
CORK AIRPORT	89	MALIN HEAD*	158.64	186.20	188.53	533.37	CO KERRY		
CO DONEGAL		CO DUBLIN					NORTH KERRY LANDFILL	90.1	83.5
MALIN HEAD	75	DUBLIN AIRPORT*	163.10	205.45	202.12	570.67	CO MAYO		
CO DUBLIN		CO KERRY					NEWPORT (FURNACE)	60.9	89.1
DUBLIN AIRPORT	92	VALENTIA OBS.*	173.91	253.66	226.34	653.91	CO OFFALY		
CASEMENT AERODROME	86	CO MAYO					DERRYGREENAGH	42.7	86.5
CO KERRY		BELMULLET*	161.29	209.63	205.05	575.97	CO WATERFORD		
VALENTIA OBS.	96	CO TIPPERARY					DUNGARVAN (CARRIGLEA)	56.6	95.5
CO MAYO		GURTEEN (AG.COLLEGE)*	174.48	191.80	179.31	545.59	CO WEXFORD		
BELMULLET	84	CO WESTMEATH					JFK PARK	54.4	108.0
KNOCK AIRPORT	77	MULLINGAR*	161.19	186.30	187.13	534.62			
CO TIPPERARY		CO WEXFORD							
GURTEEN (AG.COLLEGE)	87	JOHNSTOWN CASTLE*	170.48	268.02	220.05	658.55			
CO WESTMEATH									
MULLINGAR	84								
CO WEXFORD									
JOHNSTOWN CASTLE	91								

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

Sunday 1st: Overall it was a mostly cloudy day with a few good spells of hazy sunshine. Patchy rain in the West and North gave some heavy downpours. The rain became more showery towards the afternoon and evening, gradually clearing eastwards by the end of the day. Winds were moderate, southerly.

Rainfall: Nil at numerous locations to 14.8 mm at Kylemore Abbey Gardens
Temperature: Lowest max. 13.7°C at Mace Head, highest max. 21.5°C at Castleconnell.
Lowest min. 6.8°C at Castleconnell, highest min. 13.9°C at Dublin (Glasnevin)
Sunshine: Nil at numerous locations to 3.6 hours at Dublin Apt

Monday 2nd: A generally cloudy day with just brief spells of sunshine. Many places received patchy rain or drizzle but it didn't persist. Winds were moderate to fresh, south to southwest.

Rainfall: Nil at numerous locations to 27.8 mm at Coolgreany Castlewarren
Temperature: Lowest max. 12.7°C at Ballycroy-Knockmoyleen, highest max. 18.9°C at Waterford (Tycor).
Lowest min. 8.9°C at Ballycroy-Knockmoyleen, highest min. 14.1°C at Dublin (Glasnevin)
Sunshine: Nil at Newport (Furnace) to 2.8 hours at Dungarvan (Carriglea)

Tuesday 3rd: Isolated showers continued overnight, becoming heavier and more widespread from late morning on. A few sunny breaks between showers. Winds were light to moderate southwest to west.

Rainfall: Nil at numerous locations to 38.4 mm at Kilkenny (Lavistown Hse)
Temperature: Lowest max. 13.5°C at Malin Head, highest max. 18.2°C at Cavan (Drumconnick).
Lowest min. 6.5°C at Ballycroy-Knockmoyleen, highest min. 11.2°C at Sligo Apt
Sunshine: 3.2 hours at Ardfert (Lisachane) to 9.1 hours at Knock Apt

Wednesday 4th: Heavy showery rain in the East, generally cleared during the night hours except in the Southeast where it persisted into the early afternoon. Countrywide showers in the afternoon, dying out by evening. Cloudy in the East and Southeast, prolonged sunshine elsewhere. Winds were light to moderate, west to northwest.

Rainfall: Nil at numerous locations to 12.5 mm at Killygordon (Ballyarrell)
Temperature: Lowest max. 12.8°C at Belderrig, highest max. 17.2°C at Cloyne (Lisanley).
Lowest min. 2.0°C at Castleconnell, highest min. 8.9°C at Dublin (Glasnevin)
Sunshine: 0.5 hours at Edenderry (Ballinla) to 14.2 hours at Sherkin Island

Thursday 5th: Dry overnight with light winds. Mostly a dry day with long spells of sunshine, but some showers in the West. Dry with sunny/clear spells during the evening and night. Winds were light, variable.

Rainfall: Nil at numerous locations to 22.5 mm at Macroom (Cahirbaroule)
Temperature: Lowest max. 13.6°C at Malin Head, highest max. 19.1°C at Castleconnell.
Lowest min. 0.5°C at Castleconnell, highest min. 10.3°C at Malin Head
Sunshine: 3.9 hours at Sherkin Island to 14.1 hours at Arklow (Ballyrichard Hse)

Friday 6th: Heavy rain in the South and Southwest overnight, but dry and clear elsewhere. Rain and showers continued in the South with just patchy rain and occasional showers elsewhere. It became mainly dry during the evening and night. Winds were light to moderate, southeasterly.

Rainfall: Nil at numerous locations to 35.5 mm at Gernapeka
Temperature: Lowest max. 13.8°C at Cork Apt, Sherkin Island, highest max. 19.0°C at Athy (Chanterlands).
Lowest min. 2.9°C at Mt Dillon, highest min. 12.6°C at Wexford Wildfowl Reserve
Sunshine: Nil at numerous locations to 1.4 hours at Straide

Saturday 7th: Some patchy rain overnight but most areas remained dry. During the morning, rain in the Northeast with scattered showers and patchy fog elsewhere. Heavy thundery showers during the afternoon but with good sunny intervals. Showers died out by nightfall. Winds were light to fresh, southerly.

Rainfall: Nil at numerous locations to 21.2 mm at Gap of Dunloe
Temperature: Lowest max. 15.6°C at Cork Apt, highest max. 21.1°C at Belmullet. Lowest min. 9.1°C at Adare Manor, highest min. 13.6°C at Valentia Obs, Dublin (Glasnevin), Ardtarmon
Sunshine: 2.0 hours at Ardfert (Lisachane) to 7.8 hours at Belmullet

Sunday 8th: Mostly dry overnight with scattered showers. Showers became widespread and heavy during the day, some with hail and thunder. Good sunny intervals. The showers became well scattered by late evening. Winds were light to fresh, south to southeast.

Rainfall: Nil at numerous locations to 27.4 mm at Oldbridge (Oakview)
Temperature: Lowest max. 14.7°C at Cork Apt, highest max. 20.1°C at Glenties Hatchery
20.1°C at Cavan (Drumconnick). Lowest min. 7.1°C at Mt Dillon, highest min. 13.5°C at Wexford Wildfowl Reserve
Sunshine: 1.0 hours at Cork Apt to 11.3 hours at Belmullet

Monday 9th: Showers overnight in the South, West and Midlands. There were some good sunny spells. Widespread showers in the afternoon and evening, some heavy and thundery, although lighter in the East and Southeast. Winds were light, southerly.

Rainfall: Nil at numerous locations to 58.5 mm at Pettigo (Belault)
Temperature: Lowest max. 15.5°C at Cork Apt, highest max. 20.2°C at Ardtarmon. Lowest min. 9.7°C at Dublin Apt, 9.7°C at Carrickmacross (Dunoge), highest min. 13.7°C at Piltown (Kildalton)
Sunshine: 0.8 hours at Straide, Knock Apt to 9.3 hours at Dublin Apt

Tuesday 10th: Widespread heavy showers (some with thunder) caused flooding in places. Thunderstorm activity increased during the day affecting most parts of the country, but particularly the West, Northwest and Midlands. There were some bright and sunny spells in-between showers. The showers mainly cleared by evening leaving clear conditions. Winds were light to fresh, southerly.

Rainfall: Nil at numerous locations to 29.2 mm at Emyvale
Temperature: Lowest max. 15.7°C at Johnstown, Dundalk (Annaskeagh), highest max. 19.6°C at Warrenstown. Lowest min. 7.7°C at Listowel (Gurtocloghane), highest min. 13.0°C at Dublin (Glasnevin)
Sunshine: 1.9 hours at Newport (Furnace) to 11.3 hours at Sherkin Island

Wednesday 11th: A dry day nearly everywhere, warm by afternoon. Prolonged sunshine in the North, Northwest and South, broken cloud elsewhere. Winds were light to moderate, southwesterly.

Rainfall: Nil at numerous locations to 10.0 mm at Tyrrellspass
Temperature: Lowest max. 15.8°C at Roche's Point, highest max. 21.5°C at Glenties Hatchery. Lowest min. 5.4°C at Mt Dillon, highest min. 12.8°C at Mace Head
Sunshine: 2.0 hours at Edenderry (Ballinla) to 9.9 hours at Wexford Wildfowl Reserve

Thursday 12th: Apart from patchy light rain in the West and Northwest it was a dry day. There was prolonged sunshine in the South but it was progressively cloudier further north. Warm inland by afternoon, a little cooler near coasts. Winds were light to moderate, southerly.

Rainfall: Nil at numerous locations to 17.3 mm at Mulrany (Doughbeg)
Temperature: Lowest max. 16.7°C at Mace Head, highest max. 24.1°C at Adare Manor. Lowest min. 6.7°C at Thomastown (Mt Juliet), highest min. 13.8°C at Sherkin Island
Sunshine: 0.5 hours at Belmullet to 11.5 hours at Cork Apt

Friday 13th: Fog in places overnight with some rain in the Northwest and North. The morning was mostly dry and cloudy with some drizzle in the North and Northwest. The afternoon and evening saw light showers in north Leinster and some parts of the North, but again dry elsewhere. Winds were light to moderate, southerly.

Rainfall: Nil at numerous locations to 10.5 mm at Killeshandra (Bawn)
Temperature: Lowest max. 15.8°C at Malin Head, highest max. 24.2°C at Piltown (Kildalton).
Lowest min. 8.1°C at Thomastown (Mt Juliet), Castleconnell, highest min. 14.3°C at Dublin (Merrion Sq)
Sunshine: 0.7 hours at Valentia Obs to 8.6 hours at Wexford Wildfowl Reserve

Saturday 14th: Some mist and fog in places overnight, but mainly dry with variable cloud cover. It was a mostly dry day, just some patchy drizzle in places. Some good sunshine in southern parts but generally cloudy elsewhere. Winds were light to moderate, northerly.

Rainfall: Nil at numerous locations to 3.6 mm at Falcarragh (Lough Altan)
Temperature: Lowest max. 15.3°C at Malin Head, highest max. 23.4°C at Ballincurrig (Peafield). Lowest min. 8.5°C at Ballycroy-Knockmoyleen, highest min. 14.5°C at Belderrig
Sunshine: Nil at numerous locations to 13.7 hours at Valentia Obs

Sunday 15th: Dry overnight with some fog patches. The day was mainly dry with some good periods of sunshine though it was a little cloudier over the Midlands and East. Winds were light, north to northeast.

Rainfall: Nil at numerous locations to 0.4 mm at Kingscourt Gypsum
Temperature: Lowest max. 16.1°C at Knock Apt, highest max. 23.7°C at Glengarriff (Innacullin). Lowest min. 5.9°C at Ballina GC, highest min. 14.8°C at Waterford (Tycor)
Sunshine: 0.8 hours at Edenderry (Ballinla) to 15.1 hours at Valentia Obs

Monday 16th: Mostly dry overnight with some light localised drizzle in the West. It was another sunny, dry day with the best of the sunshine in western areas. This trend continued into the evening with good sunny spells across the country before dusk. Winds were light, northeasterly.

Rainfall: Nil at numerous locations to 0.5 mm at Banteer Lyre
Temperature: Lowest max. 16.5°C at Malin Head, highest max. 25.6°C at Craggaunowen.
Lowest min. 5.6°C at Glenties Hatchery, highest min. 14.0°C at Roche's Point 14.0°C at Cloyne (Lisanley)
Sunshine: 6.1 hours at Edenderry (Ballinla) to 15.7 hours at Ballyshannon (Cathleen's Fall)

Tuesday 17th: Some overnight mist and fog in northern and eastern areas. Away from the North it was a fine, dry and warm day in most parts. Long spells of sunshine for most areas and little cloud, with the exception of northern parts where it was mostly cloudy and cool. Winds were light, northeasterly.

Rainfall: Nil at numerous locations to 0.5 mm at Kinsalebeg-Ferryport
Temperature: Lowest max. 14.5°C at Belderrig, highest max. 27.6°C at Craggaunowen.
Lowest min. 6.9°C at Dublin Apt, highest min. 13.5°C at Newport (Furnace)
Sunshine: 10.6 hours at Ballyshannon (Cathleen's Fall) to 15.8 hours at Belmullet

Wednesday 18th: Some mist and fog overnight especially in the North and East. Conditions cleared by morning in the East, but the North remained cloudy with occasional drizzle or showers. The rest of the country experienced clear, sunny skies and high temperatures for this time of year. Winds were light, north to northeast.

Rainfall: Nil at numerous locations to 0.8 mm at Falcarragh (Lough Altan)
Temperature: Lowest max. 15.3°C at Belderrig, highest max. 27.3°C at Ballincurrig (Peafield).
Lowest min. 8.8°C at Glenties Hatchery, highest min. 14.7°C at Mace Head, Sligo Apt
Sunshine: 7.0 hours at Belmullet to 15.6 hours at Dublin Apt 15.6 hours at Casement

Thursday 19th: A mainly clear night with a misty start in the North, but a fine day in most other parts. Variable cloud cover, cloudiest in the North, with some long bright sunny spells in many areas, warmest in the South. Winds were light, northerly.

Rainfall: Nil at numerous locations to 3.1 mm at Kiltormer
Temperature: Lowest max. 15.6°C at Malin Head, highest max. 24.0°C at Glengarriff (Ilnacullin). Lowest min. 8.5°C at Cloosh, highest min. 15.3°C at Waterford (Tycor)
Sunshine: 0.3 hours at Ballyshannon (Cathleen's Fall) to 15.3 hours at Valentia Obs

Friday 20th: Another clear night with a mist or fog at the start of the day in some coastal areas. Another fine, sunny and warm day in most parts, warmest in the South. The odd shower of rain or drizzle in parts of the North and West. Winds were light, northerly.

Rainfall: Nil at numerous locations to 8.4 mm at Kiltormer
Temperature: Lowest max. 16.0°C at Malin Head, highest max. 22.9°C at Glengarriff (Ilnacullin). Lowest min. 5.5°C at Dublin Apt, highest min. 13.5°C at Ardtarmon
Sunshine: 1.2 hours at Newport (Furnace) to 15.2 hours at Valentia Obs

Saturday 21st: Some patchy drizzle in parts of the West overnight, but dry with clear spells elsewhere. The day was generally dry with good sunshine. The evening and night continued dry, with mostly sunny or clear periods throughout. Winds were light, northerly.

Rainfall: Nil at numerous locations to 1.7 mm at Cresslough (Brockagh)
Temperature: Lowest max. 16.5°C at Malin Head 16.5°C at Belderrig, highest max. 22.5°C at Castleconnell. Lowest min. 6.0°C at Dublin Apt, highest min. 13.3°C at Mallow (Spa Hse)
Sunshine: 1.7 hours at Newport (Furnace) to 13.4 hours at Ashford (Cronykeery)

Sunday 22nd: Dry and clear overnight with a few light showers in the West during the morning. Continuing dry and sunny into the afternoon before cloud over by evening. Remaining dry into the night. Winds were light, northerly.

Rainfall: Nil at numerous locations to 0.4 mm at Gweedore
Temperature: Lowest max. 16.0°C at Belderrig, highest max. 23.6°C at Craggaunowen.
Lowest min. 5.3°C at Mt Dillon, highest min. 13.4°C at Newport (Furnace), Sherkin Island
Sunshine: Nil at numerous locations to 13.8 hours at Arklow (Ballyrichard Hse)

Monday 23rd: Some patch light rain from the West spread eastwards through the Midlands during the morning, clearing the Northeast coast before noon. Generally dry for the afternoon, with light showers in the far North in the evening and night. Winds were light, variable.

Rainfall: Nil at numerous locations to 5.1 mm at Banteer Lyre
Temperature: Lowest max. 17.4°C at Malin Head, Belderrig, highest max. 24.0°C at Craggaunowen. Lowest min. 4.6°C at Glenties Hatchery, highest min. 14.3°C at Mallow (Spa Hse)
Sunshine: 3.3 hours at Ballincurrig (Peafield) to 14.5 hours at Wexford Wildfowl Reserve

Tuesday 24th: Mostly dry overnight and in the morning with patches of drizzle on northern and eastern coasts. It became cloudy across much of the country during the afternoon with some showers across Ulster. This continued into the evening and night with some further showers in the North. Winds were light, variable.

Rainfall: Nil at numerous locations to 17.6 mm at Dingle (Baile na nGall)
Temperature: Lowest max. 15.5°C at Malin Head, highest max. 24.7°C at Ballincurrig (Peafield). Lowest min. 6.9°C at Adare Manor, highest min. 13.3°C at Roche's Point
Sunshine: Nil at numerous locations to 13.7 hours at Valentia Obs

Wednesday 25th: Rain moved into the West and North overnight. Rain affected all but the far South during the afternoon and evening clearing to the North overnight, followed by showers. Winds were light, variable.

Rainfall: Nil at numerous locations to 47.2 mm at Keenagh Beg
Temperature: Lowest max. 15.6°C at Malin Head, highest max. 22.6°C at Dungarvan (Carriglea). Lowest min. 10.3°C at Glengarriff (Ilnacullin), highest min. 16.2°C at Dublin (Glasnevin)
Sunshine: Nil at numerous locations to 7.9 hours at Valentia Obs

Thursday 26th: Bands of rain affected the country. It was a mostly cloudy day with long spells of rain and showers moving across the country from the Southwest through the afternoon and evening. A short clearance followed with conditions improving towards nightfall in the South. Winds were light, easterly.

Rainfall: Nil at numerous locations to 27.8 mm at Derryhillagh
Temperature: Lowest max. 14.9°C at Malin Head, highest max. 21.0°C at Cahore (Kilmichael Hse). Lowest min. 9.4°C at Wexford Wildfowl Reserve, highest min. 14.8°C at Newport (Furnace) 14.8°C at Ardtarmon
Sunshine: Nil at numerous locations to 6.6 hours at Sherkin Island

Friday 27th: Overnight rain in the East was heavy in places. Mostly dry elsewhere overnight with some fog. Frequent showers throughout the day, with some thundery heavy downpours. Generally dry in most places by late evening, with some sunny or clear periods. Winds were light to moderate, easterly.

Rainfall: Nil at numerous locations to 24.0 mm at Tralee UDC
Temperature: Lowest max. 14.9°C at Malin Head, highest max. 21.2°C at Littleton. Lowest min. 6.5°C at Thomastown (Mt Juliet) 6.5°C at Castleconnell, highest min. 13.4°C at Dublin (Glasnevin)
Sunshine: 1.1 hours at Arklow (Ballyrichard Hse) to 10.8 hours at Valentia Obs

Saturday 28th: Dry overnight with some fog in parts of the South. Some showers in the East during the morning, but dry elsewhere with some good sunshine. The rest of the day was dry with good sunny spells but some cloudy periods in places also. Winds were light to moderate, northerly.

Rainfall: Nil at numerous locations to 6.0 mm at Shanagarry (North)
Temperature: Lowest max. 14.4°C at Malin Head, highest max. 21.0°C at Castleconnell. Lowest min. 6.4°C at Castleconnell, highest min. 15.2°C at Newport (Furnace)
Sunshine: 4.9 hours at Ballyshannon (Cathleen's Fall), Wexford Wildfowl Reserve to 14.4 hours at Valentia Obs

Sunday 29th: The day was mostly dry with patchy drizzle in parts of the Northwest. Some good sunshine in parts. Winds were light to moderate, northerly.

Rainfall: Nil at numerous locations to 13.1 mm at Lullymore
Temperature: Lowest max. 14.7°C at Malin Head, highest max. 20.8°C at Cavan (Drumconnick), Craggaunowen. Lowest min. 1.9°C at Glenties Hatchery, highest min. 12.4°C at Roche's Point
Sunshine: 3.5 hours at Casement to 12.3 hours at Valentia Obs

Monday 30th: Dry overnight with good clear spells. A dry and mostly sunny day over most of the country, but some cloud over western parts. The evening and night continued dry with sunny or clear spells. Winds were light to moderate, southeasterly.

Rainfall: Nil at numerous locations to 0.3 mm at Kinsale (Voc Sch)
Temperature: Lowest max. 15.2°C at Malin Head, highest max. 23.8°C at Cavan (Drumconnick)
Lowest min. 4.5°C at Ashford (Cronykeery), highest min. 14.4°C at Roche's Point
Sunshine: 0.9 hours at Sherkin Island to 15.1 hours at Casement

ONE TENTH REPORT HALF OF NORMAL JUNE RAINFALL

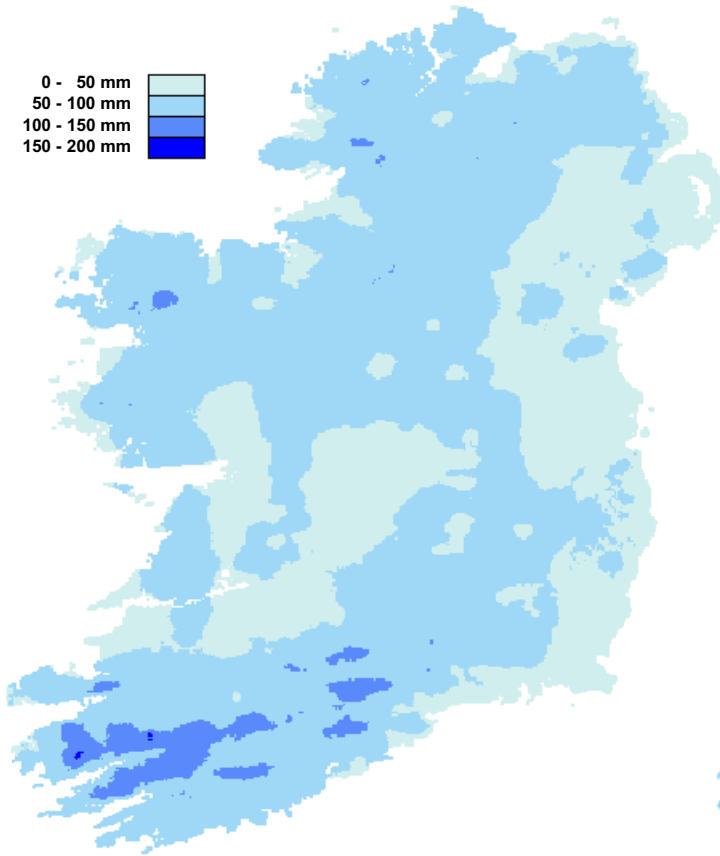
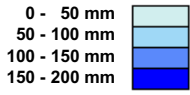
The majority of monthly rainfall totals were below their Long-Term Average (LTA), with above LTA values mainly recorded in Cork, Tipperary and Kilkenny. At around 10% of stations, percentage of LTA values were below half of what is normal for June, with low monthly totals attributed to varying periods of absolute drought (*15 or more consecutive days to none of which 0.2 mm or more is credited*) between the 8th and the 26th. The longest period of absolute drought was at Castlebridge, Co Wexford with 18 days. The station had a monthly total of 29.4 mm, 14.1 mm falling on the 27th an overall monthly percentage of LTA of 46%. The month's lowest percentage of LTA and lowest rainfall total was at Inishere, Co Galway with 21% and 15.8 mm, respectively, its driest June since 1983. The month's highest percentage of LTA and highest rainfall accumulation in a low lying area (area below 200 m) was at Ballingearry (Vocational School), Co Cork with 140% and 139.7 mm. The month's highest accumulation was in the Cumberagh Mountains, Co Kerry with 172.9 mm, its lowest June rainfall in eight years. Most stations reported drier conditions in 2006, 2010 or 2013 with the longest record of observations exceeded at Inishbofin, Co Galway and Kiladoon, Co Mayo where both had their driest June in 30 years. The wettest day was at Pettigo (Belault), Co Donegal on June 9th with 58.5 mm, its wettest day since it opened in 2004. While, nearby Pettigo (Lough Derg), Co Donegal reported 38.4 mm on the same date, its highest June fall since 1979 and second highest since 1953.

The number of wet days (*days with 1 mm or more*) ranged from four at Newtownmountkennedy (Forest Lab), Co Wicklow to 15 at Cloone Lake (Caragh River Area), Co Kerry.

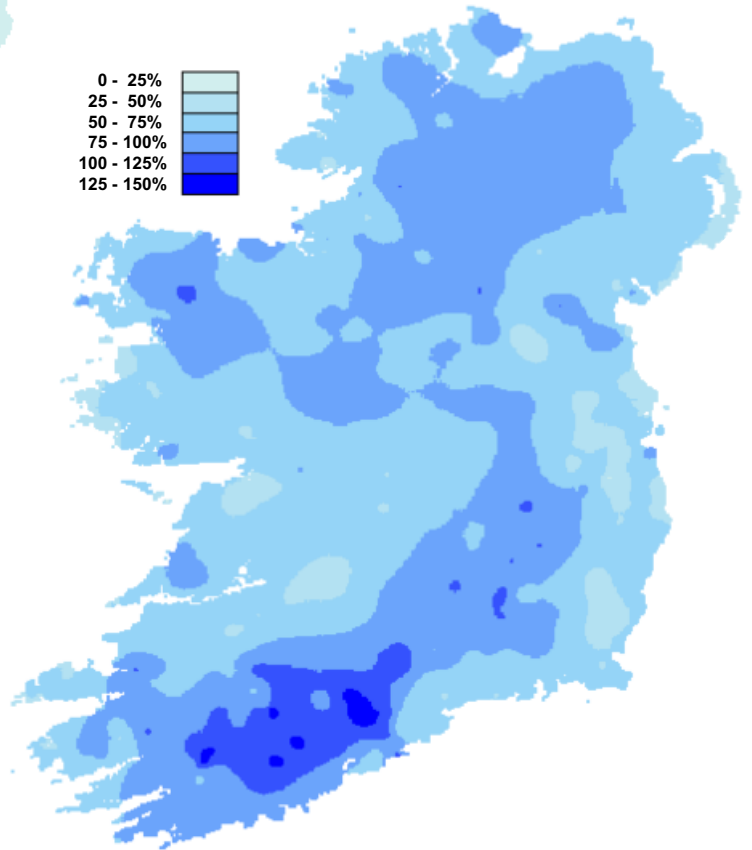
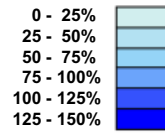
COUNTY/ STATION	TOTAL AMOUNT (mm)	% OF 1981-2010 AVERAGE	MOST IN A DAY / DATE		NUMBER OF RAINDAYS (>0.2mm)	NUMBER OF WETDAYS (>1mm)
CO CARLOW						
CARLOW (OAK PARK)	61.9	102	26.7	3	11	9
CO CAVAN						
BALLYHAISE	71.0	105	17.4	8	11	10
CO CLARE						
CARRON	40.5	40	10.4	26	14	11
SHANNON AIRPORT	40.5	58	7.1	26	13	10
CO CORK						
BALLINCURRIG (PEAFIELD)	105.6	120	22.2	27	12	9
CORK AIRPORT	85.3	105	20.2	5	13	10
FERMOY (MOORE PARK)	92.2	131	18.2	26	11	10
ROCHE'S POINT	45.8	72	9.8	6	11	8
SHERKIN ISLAND	59.7	79	19.7	5	9	8
CO DONEGAL						
BALLYSHANNON (CATHLEEN'S FALL)	57.7	83	28.6	9	13	8
GLENTIES HATCHERY	52.8	56	21.4	9	13	9
MALIN HEAD	46.9	67	10.0	24	17	10
CO DUBLIN						
CASEMENT AERODROME	31.8	51	12.0	3	10	6
DUBLIN (MERRION SQUARE)	34.6	59	9.5	25	9	7
DUBLIN AIRPORT	36.2	54	11.6	26	12	6
DUBLIN (PHOENIX PARK)	29.6	43	9.5	26	11	6
CO GALWAY						
MAAM VALLEY	77.5	51	24.2	9	14	11
CO KERRY						
ARDFERT (LISCAHANE)	58.1	81	14.3	6	12	10
VALENTIA OBSERVATORY	55.5	58	11.1	6	11	10
CO KILKENNY						
THOMASTOWN (MT. JULIET)	66.8	103	26.5	3	12	7
CO LIMERICK						
MOUNT RUSSELL	86.2	94	12.8	10	14	12
CO MAYO						
BELMULLET	44.6	62	15.8	9	12	9
DELPHI LODGE	85.2		17.4	9	13	10
KNOCK AIRPORT	66.8	73	11.7	25	15	12
STRAIDE	71.0	95	22.5	9	14	13
CO MEATH						
WARRENTOWN	31.5	43	13.1	3	9	6
CO MONAGHAN						
CARRICKMACROSS (DUNOGE)	68.5	101	17.6	7	11	10
CO OFFALY						
DERRYGREENAGH	42.7	61	8.2	3	11	9
CO ROSCOMMON						
MOUNTDILLON	49.2	66	9.6	26	13	10
CO SLIGO						
ARDTARMON	57.2	81	16.4	3	15	11
CO TIPPERARY						
FETHARD (PARSONSHILL)	64.0	86	15.0	10	11	10
GURTEEN (AG.COLLEGE)	33.7	47	8.3	7	14	8
CO WATERFORD						
DUNGARVAN (CARRIGLEA)	56.6	70	12.8	3	13	10
WATERFORD (TYCOR)	44.0	60	12.1	6	11	8
CO WESTMEATH						
MULLINGAR	63.4	86	9.1	10	14	11
CO WEXFORD						
CLONROCHE (KNOXTOWN)	50.8	***	12.7	26	11	9
JOHNSTOWN CASTLE	35.2	48	20.7	26	10	6
CO WICKLOW						
ASHFORD (CRONYKEERY)	29.0	47	10.3	10	8	5

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

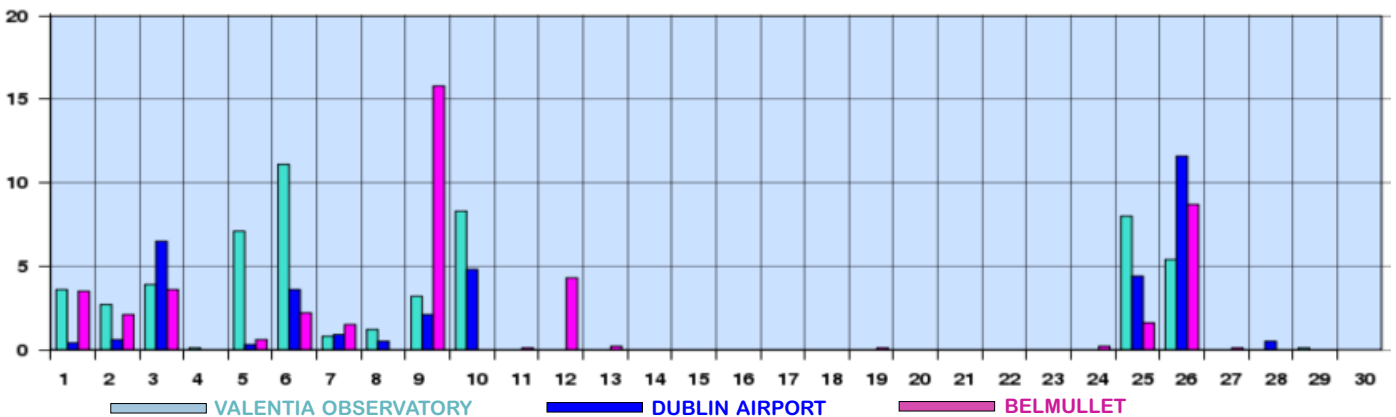
TOTAL RAINFALL (mm)



PERCENTAGE OF NORMAL RAINFALL
(1981-2010 NORMALS)



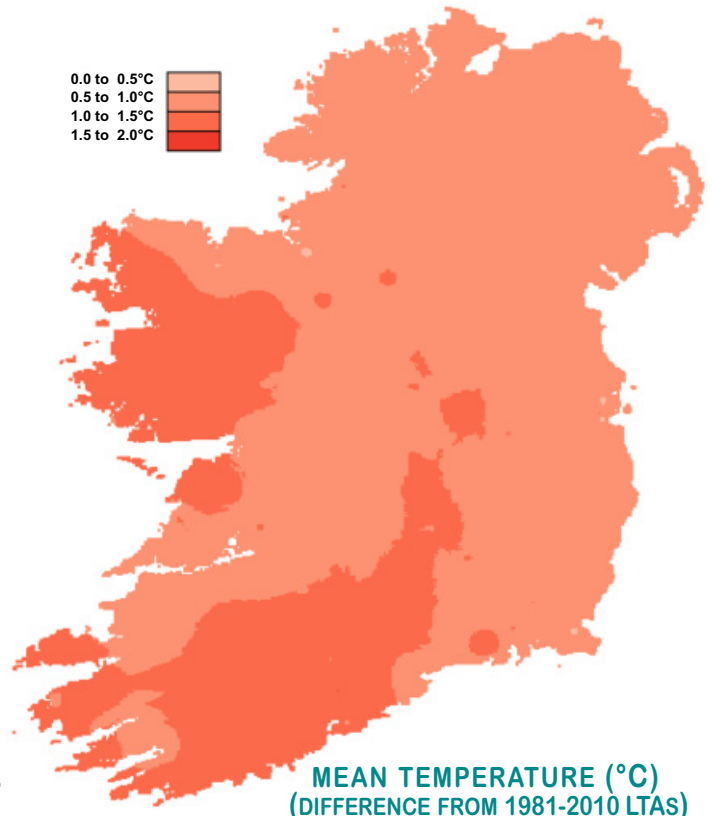
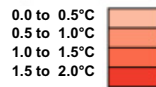
DAILY 0901-0900hr RAINFALL VALUES (mm)



EVERYWHERE REPORTS MEAN TEMPERATURES

ABOVE THEIR JUNE LTA

All monthly mean air temperatures were near or above their Long-Term Average (LTA), with largest deviations from LTA in parts of the South, Southwest, Midlands and West. Differences from LTA ranged from 0.1°C (mean air temperature of 13.7°C) at Markree, Co Sligo to 1.6°C (mean air temperature of 14.9°C) at Ballincurrig (Peafield), Co Cork. Monthly mean air temperatures ranged from 13.5°C (0.8° from LTA) at Malin Head to 15.8°C at both Waterford (Tycor) and Dublin (Glasnevin), 1.4°C and 1.2°C from their LTAs, respectively. Nearly all stations reported warmer June conditions in 2010. The majority of stations reported their highest maximum temperatures between the 16th and 18th with highest maxima ranging from 18.7°C at Malin Head (on the 12th) to 27.6°C at Craggaunowen, Co Clare (on the 17th), equalling its highest June temperature since 1995. Stations of Dungarvan (Carriglea), Co Waterford and John F Kennedy Park, Co Wexford also both reported their highest June temperatures in 19 years on the 18th with 26.9°C and 25.5°C, respectively. Most other stations reported higher June maxima in the last five years. Most stations reported their lowest air and grass minima between the 4th and 6th and on the 29th. The month's lowest air minimum temperatures ranged from 0.5°C at Castleconnell, Co Limerick (on the 5th) to 7.8°C (on the 5th) at Cashel

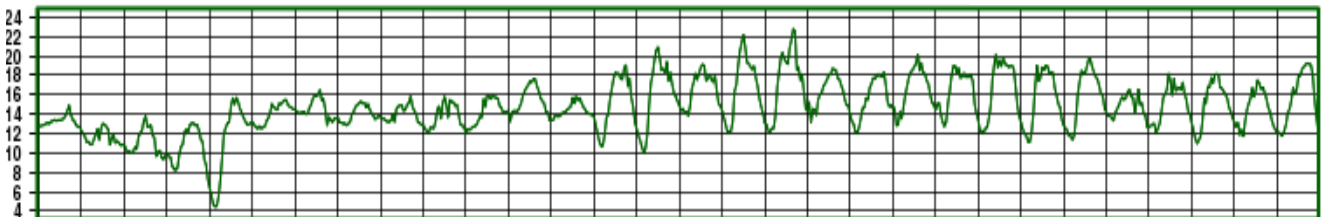


MEAN TEMPERATURE (°C)
(DIFFERENCE FROM 1981-2010 LTAS)

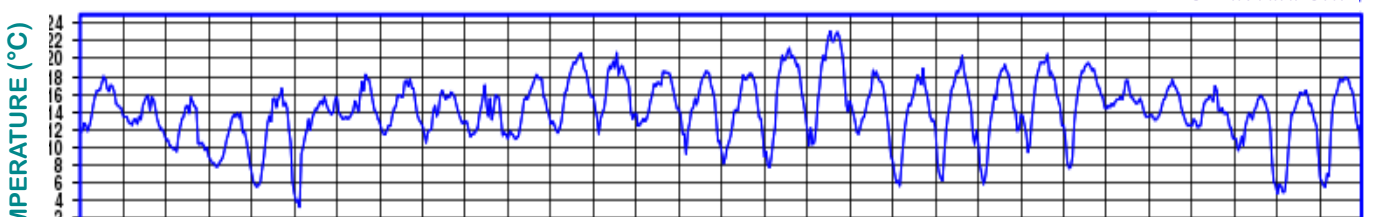
(Ballydoyle Hse), Co Tipperary. The month's lowest grass minimum was -2.5°C at Straide, Co Mayo on the 5th. The majority of stations reported no ground frost. A few stations in parts of Northwest, Midlands, West and East reported some ground frost ranging from one day at numerous locations to three days at Ashford (Cronykeery), Co Wicklow.

HOURLY TEMPERATURES JUNE 2014

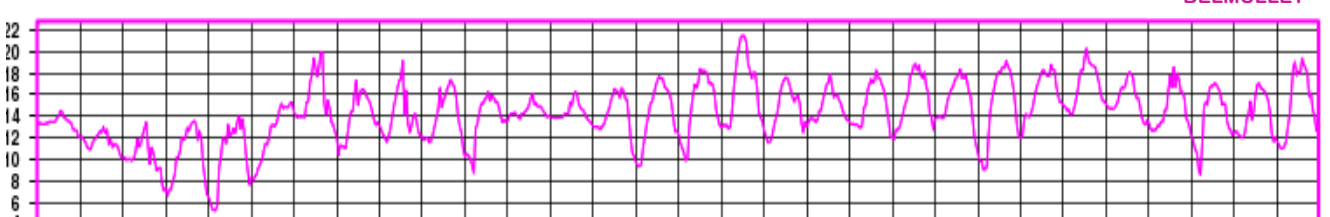
VALENTIA OBSERVATORY



DUBLIN AIRPORT



BELMULLET



DAY OF MONTH

COUNTY/ STATION	MEAN MAX.	MEAN MIN.	DIFFERENCE FROM 1981-2010		HIGHEST MAX./DATE	LOWEST MIN./DATE	LOWEST GRASS MIN./DATE	DAYS WITH FROST	
			MEAN	AVERAGE				AIR	GROUND
CO CARLOW									
CARLOW (OAK PARK)	19.1	10.2	14.7	0.6	24.9 18	5.3 5	0.6 29	0	0
CO CAVAN									
BALLYHAISE	18.6	10.0	14.3	0.6	24.3 17	4.9 5	1.7 29	0	0
CO CLARE									
CARRON	18.7	10.1	14.4	1.3	24.5 18	4.5 5	-0.4 5	0	1
SHANNON AIRPORT	19.5	11.1	15.3	0.7	25.9 18	3.7 5	-0.2 5	0	1
CO CORK									
BALLINCURRIG (PEAFIELD)	19.6	10.3	14.9	1.6	27.3 18	3.8 5	3.6 5	0	0
CORK AIRPORT	18.1	11.1	14.6	1.1	24.4 18	5.3 5	-1.5 5	0	1
FERMOY (MOORE PARK)	19.0	10.4	14.7	0.9	26.0 18	1.9 5	1.0 5	0	0
ROCHE'S POINT	17.7	12.0	14.9	1.0	22.1 18	5.4 5	2.2 5	0	0
SHERKIN ISLAND	17.6	12.0	14.8	0.9	21.2 18	5.2 5	3.0 5	0	0
CO DONEGAL									
BALLYSHANNON (CATHLEEN'S FALL)	18.3	10.9	14.6	1.1	22.3 17	5.9 29		0	
GLENTIES HATCHERY	18.8	9.4	14.1	1.0	23.1 16	1.9 29	0.1 29	0	0
MALIN HEAD	15.8	11.3	13.5	0.8	18.7 12	5.8 6	1.1 30	0	0
CO DUBLIN									
CASEMENT AERODROME	18.7	9.4	14.0	0.4	24.7 18	4.5 29	0.6 6	0	0
DUBLIN (MERRION SQUARE)	18.4	11.5	15.0	0.2	22.4 18	7.6 5		0	
DUBLIN AIRPORT	18.6	9.0	13.8	0.2	23.5 18	3.0 6	-1.4 6	0	1
DUBLIN (PHOENIX PARK)	19.4	10.0	14.7	0.9	24.6 18	5.4 5	0.2 5	0	0
CO GALWAY									
MAAM VALLEY	19.1	10.3	14.7	1.1	25.7 18	3.5 5	1.3 5	0	0
CO KERRY									
ARDFERT (LISCAHANE)	19.7	10.1	14.9	1.0	26.4 17	3.5 5	3.1 5	0	0
VALENTIA OBSERVATORY	18.0	11.5	14.8	1.0	23.2 18	4.2 5	0.2 5	0	0
CO KILKENNY									
THOMASTOWN (MT. JULIET)	19.6	9.5	14.5	0.5	26.1 18	4.0 5	1.2 29	0	0
CO LIMERICK									
MOUNTRUSSELL	18.7	10.7	14.7	1.4	25.0 18	4.2 5	1.0 5	0	0
CO MAYO									
BELMULLET	17.8	10.9	14.4	1.1	21.8 17	4.8 5	2.2 5	0	0
DELPHI LODGE	19.0	10.9	15.0	1.4	24.9 17	2.4 5	-2.1 5	0	1
KNOCK AIRPORT	17.5	10.2	13.8	1.4	23.8 17	5.5 5	4.1 5	0	0
STRAIDE	19.5	9.3	14.4	1.0	26.5 17	1.1 5	-2.5 5	0	2
CO MEATH									
WARRENTOWN	19.8	9.8	14.8	1.1	25.0 17,18	4.8 6	1.6 5	0	0
CO MONAGHAN									
CARRICKMACROSS (DUNOGE)	19.3	9.6	14.5	0.8	25.3 17	4.1 6	-0.6 6	0	1
CO OFFALY									
DERRYGREENAGH	19.6	10.4	15.0	1.5	25.7 18	5.5 5	1.0 5	0	0
CO ROSCOMMON									
MOUNTDILLON	19.7	9.2	14.5	0.8	25.5 17	2.7 5	-0.8 5, 6	0	2
CO SLIGO									
ARDTARMON	18.5	11.4	15.0	1.2	22.6 16	6.8 29	1.5 6	0	0
CO TIPPERARY									
FETHARD (PARSONSHILL)	19.1	10.4	14.7	1.2	26.1 18	4.6 5	4.6 5	0	0
GURTEEN (AG.COLLEGE)	18.9	10.0	14.5	0.7	25.3 18	4.5 5	-0.4 5	0	1
CO WATERFORD									
DUNGARVAN (CARRIGLEA)	19.4	10.5	14.9	0.6	26.9 18	4.3 5	2.1 5	0	0
WATERFORD (TYCOR)	19.6	12.1	15.8	1.4	25.4 18	6.9 5		0	
CO WESTMEATH									
MULLINGAR	18.9	9.7	14.3	0.9	24.9 18	4.9 5	-0.5 5	0	1
CO WEXFORD									
CLONROCHE (KNOXTOWN)	19.2	9.5	14.3	1.0	25.5 18	4.5 29	2.0 29	0	0
JOHNSTOWN CASTLE	17.3	11.0	14.1	0.4	22.9 18	6.8 5	3.1 6	0	0
CO WICKLOW									
ASHFORD (CRONYKEERY)	18.3	9.5	13.9	0.5	21.1 13	3.8 6	-1.4 6	0	3

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

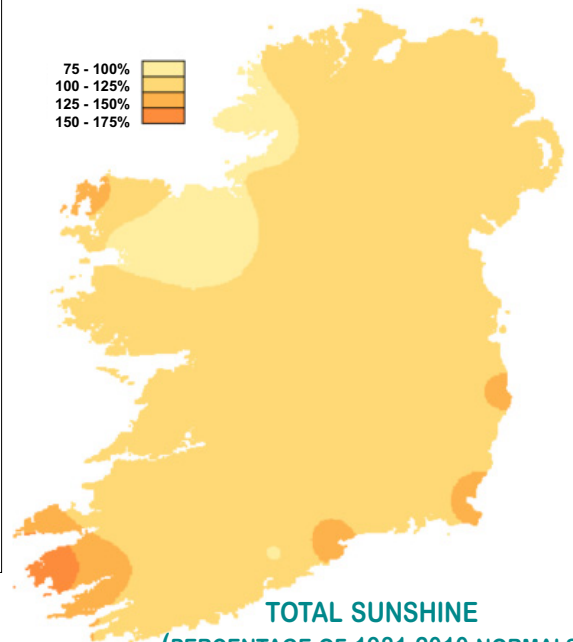
NEAR OR ABOVE LTA SUNSHINE EVERYWHERE

Sunshine totals were near Long-Term Average (LTA) in parts of the West, Northwest and South with above LTA totals elsewhere. The month's lowest daily mean sunshine and percentage of LTA values were recorded both in Mayo, with Newport (Furnace) reporting the lowest daily mean sunshine with 4.32 hours per day (95% of its LTA) and Straide reporting the lowest percentage of LTA with 94% (4.86 hrs/day). The highest percentage of LTA and daily mean sunshine was at Valentia Observatory with 164% and 8.76 hr/day, respectively, its sunniest June since 1940. The sunniest day was the 17th at Belmullet with 15.8 hours, its sunniest June day since 1995.

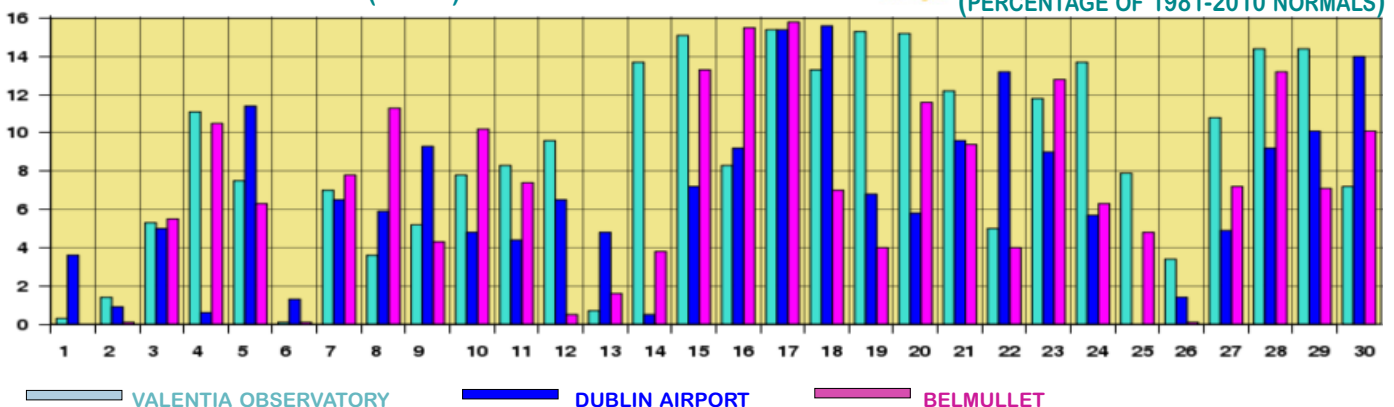
Percentage of global radiation values were all near or above average, with LTAs values ranging from 99% at Malin Head to 121% at Valentia Observatory.

COUNTY/ STATION	DAILY MEAN (HOURS/DAY)	% OF 1981-2010 LTA	DULL DAYS (<0.5 HRS)	MOST IN A DAY/DATE
CO CLARE				
SHANNON AIRPORT	5.87	113	3	14.5 18
CO CORK				
BALLINCURRIG (PEAFIELD)	5.83	98	3	13.9 17
CORK AIRPORT	6.88	118	2	15.5 17
SHERKIN ISLAND	7.30	115	2	14.9 17
CO DONEGAL				
BALLYSHANNON (CATHLEEN'S FALL)	4.70	99	6	15.7 16
CO DUBLIN				
CASEMENT AERODROME	6.05	113	5	15.6 18
DUBLIN (GLASNEVIN)	6.17	109	4	14.1 30
DUBLIN AIRPORT	6.75	117	1	15.6 18
CO KERRY				
ARDFERT (LISCAHANE)	5.73	111	3	11.8 18
VALENTIA OBSERVATORY	8.76	164	2	15.4 17
CO MAYO				
BELMULLET	7.05	136	4	15.8 17
KNOCK AIRPORT	4.58	95	6	15.3 16
NEWPORT (FURNACE)	4.32	95	6	13.3 16
STRAIDE	4.86	94	4	15.2 16
CO WATERFORD				
DUNGARVAN (CARRIGLEA)	7.37	131	2	15.4 17
CO WEXFORD				
CLONROCHE (KNOXTOWN)	6.18	108	1	14.5 17
JFK PARK	5.88	111	3	13.8 30
WEXFORD WILDFOWL RESERVE	7.43	134	3	15.0 17
CO WICKLOW				
ARKLOW (BALLYRICHARD HSE.)	7.45		2	14.5 30
ASHFORD (CRONYKEERY)	7.77	128	1	14.7 17

* PARTIAL DATA USED IN CALCULATION

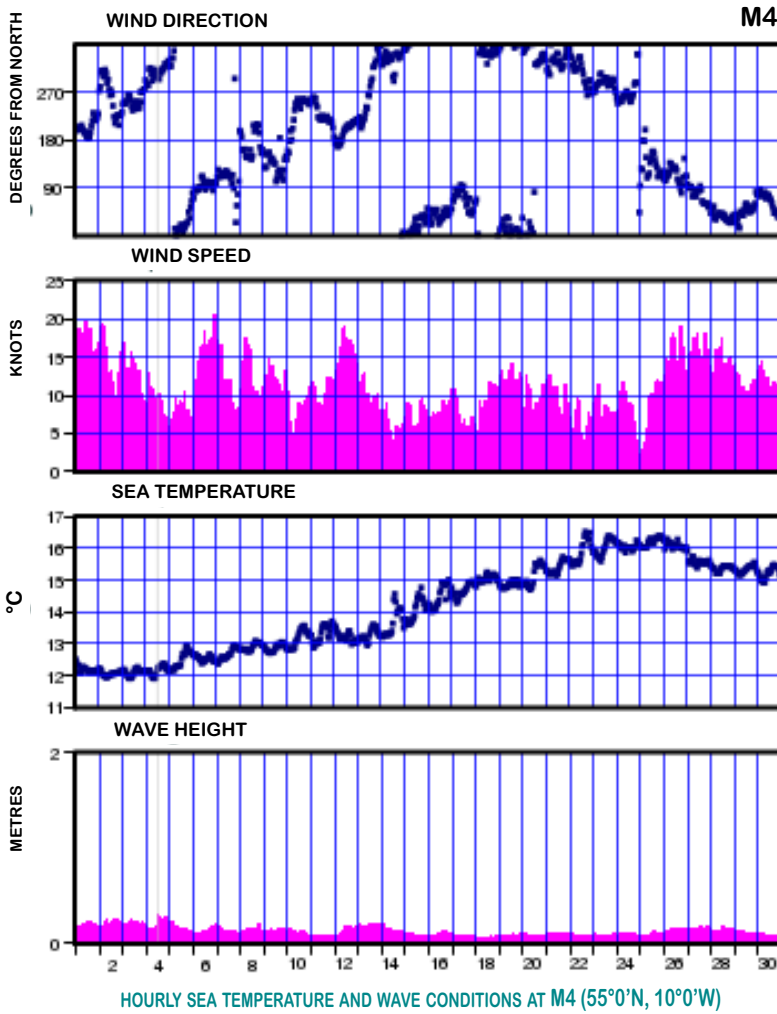


DAILY SUNSHINE VALUES (HOURS)



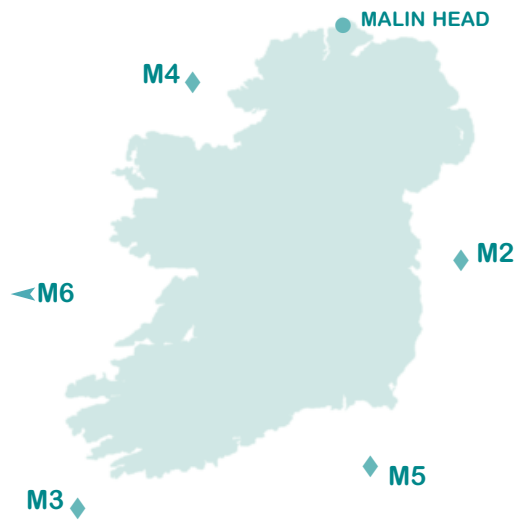
TOTAL SUNSHINE (PERCENTAGE OF 1981-2010 NORMALS)

MARINE OBSERVATIONS FROM IRISH MARINE DATA BUOY NETWORK

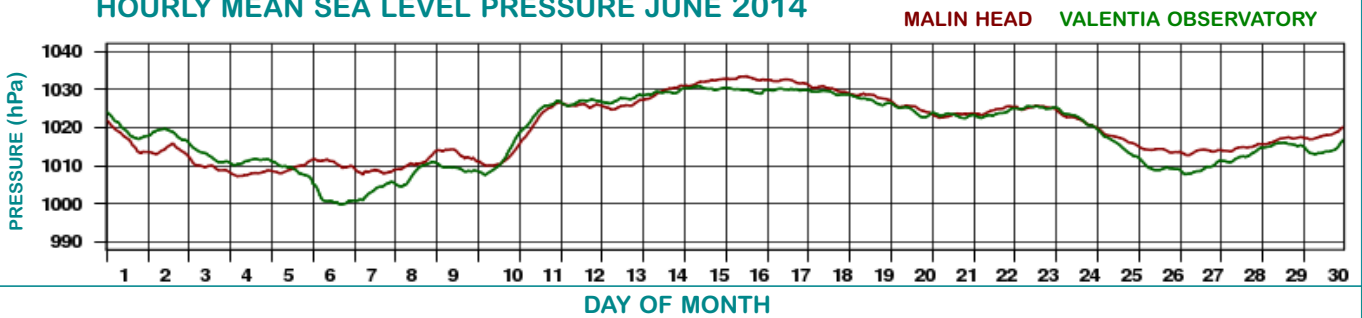


BUOY	SEA SURFACE TEMP. (°C)	MEAN WIND SPEED (knots)	MAX 10-MIN WIND (knots)	MEAN SIGNIFICANT WAVE HEIGHT (m)	MAX SIGNIFICANT WAVE HEIGHT (m)
M2	-----	not available	-----	-----	-----
M3	15.2	10.4	37.2	1.4	3.6
M4	14.1	10.4	20.5	1.3	3.0
M5	15.2	-----	not available	-----	-----
M6	13.6	11.1	28.0	1.5	4.5
MALIN HEAD	12.4				

SUMMARY OF MEAN MONTHLY VALUES

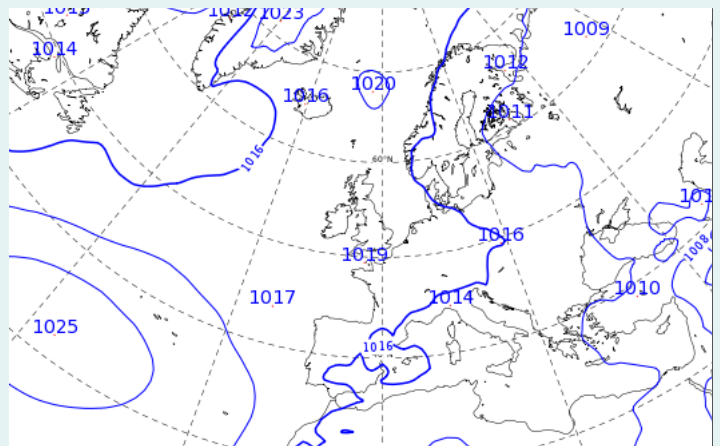


HOURLY MEAN SEA LEVEL PRESSURE JUNE 2014



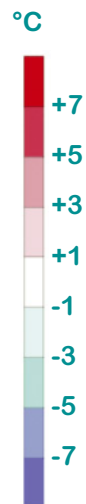
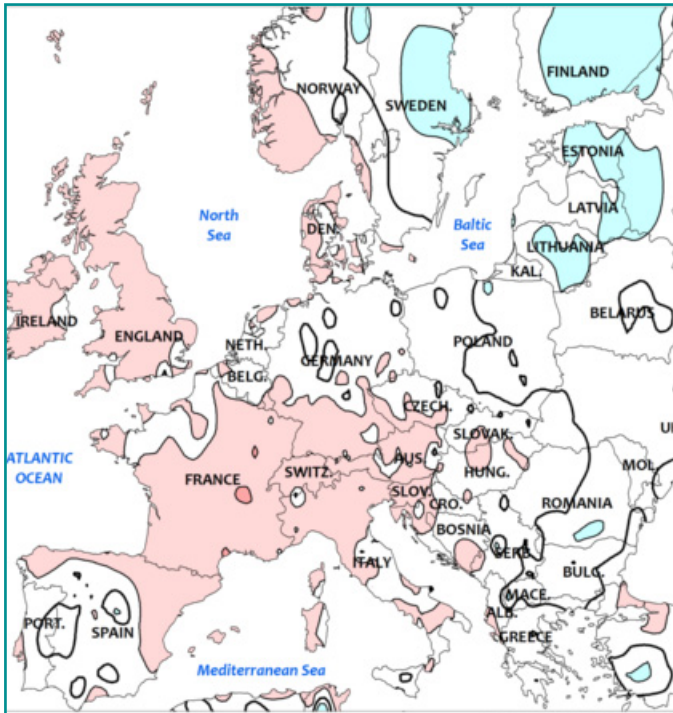
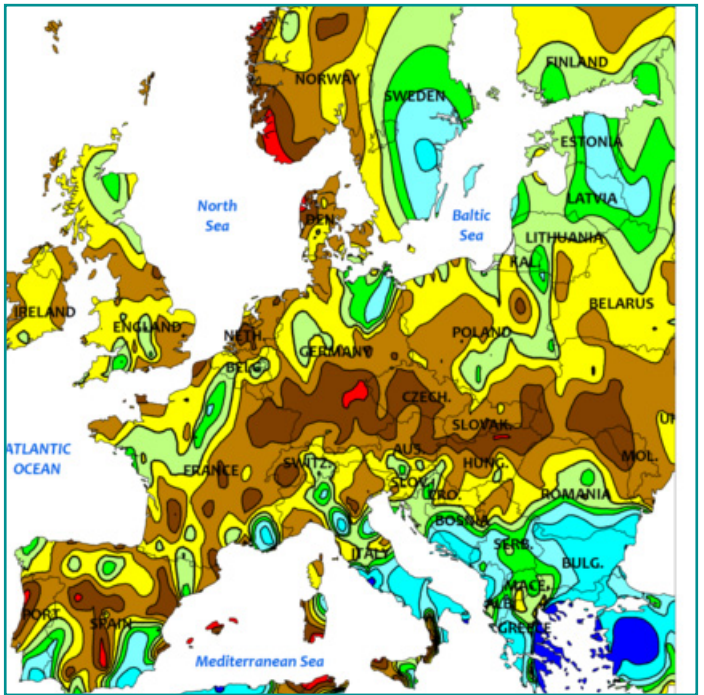
ATMOSPHERIC PRESSURE

Monthly mean sea level pressure values ranged from just above 1018 hPa in the Southwest to just over 1019 hPa in the far North. The month's lowest pressure value of 999.8 hPa was recorded at Valentia Observatory on the 6th at 1600 and 1700 UTC, as a depression of 986 hPa was located off the northwest coast of Portugal before moving into the mid-Atlantic Ocean. The month's highest pressure value of 1033.6 hPa was recorded at Belmullet on the 16th at 0000 and 0100 UTC as a high pressure centre of 1034 hPa was situated over western and northwestern coastal counties.



MONTHLY MEAN MSL PRESSURE, BASED ON 1200 UTC VALUES

JUNE RAINFALL
(PERCENTAGE OF 1961-1990 NORMAL)



JUNE MEAN TEMPERATURE
(DIFFERENCE FROM 1961-1990 NORMAL)

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

GLOBAL WEATHER HIGHLIGHTS OF THE MONTH

At the end of June in the Canadian provinces of Saskatchewan and Manitoba torrential rainfall of nearly 175 mm (within 48 hours) caused substantial flooding in many areas. The floods, which lingered into July, prompted both provinces to declare states of emergency as many roads, including the Trans-Canada Highway were submerged.

At least five EF-4 (wind speeds of 267 to 322 km/h) tornadoes were recorded in the Plains area in the US between June 16th and 18th. The most damage was caused in the small town of Pilger, Nebraska where two twin EF-4 tornadoes on the evening of the 16th caused the death of two people and injured at least 20 others.

Tropical Storm Boris, a weak and short lived tropical cyclone, made landfall near the border of southern Mexico's Chiapas and Oaxaca states on the 2nd with minimal wind speeds of 40 km/h. Boris brought heavy rain (up to 235 mm) to Guatemala causing widespread flooding and landslides, killing at least six people.

Severe thunderstorms affected Western and Central Europe between the 8th and the 10th causing significant hail damage in parts of Germany, France and Belgium. Hailstones of up to 7 cm were recorded with wind gusts of over 145 km/h recorded. At least six people died in Germany.

On the 10th and 11th across New Zealand's North Island, a vigorous storm system brought torrential rains and wind gusts of up to 131 km/h, killing at least one person. Auckland, Tauranga and the Coromandel Peninsula reported damaged caused by isolated flooding, downed trees and power lines.