

MONTHLY WEATHER BULLETIN

NO. 351
AUGUST 2015



Around 420 dinghies competed in the National Championship at the Cork Dinghy Fest which took place at the Royal Cork Yacht Club, Crosshaven, Co Cork between the 20th and 23rd of August. (Picture Courtesy Irish Examiner. Photographer: Robert Bateman)

COOL WITH VARIABLE RAINFALL; GALES IN PLACES AT TIMES

All monthly mean air temperatures were below their LTA (Long-Term Average) with stations reporting deviations from normal of -0.5°C or more. Differences from LTA were as much as -1.7°C at Athenry, Co Galway with a mean temperature of 13.7°C . Most stations reported cooler August conditions in the last five year with the exception of some stations in the Midlands

and Southwest. Valentia Observatory, Co Kerry had its coldest August in 29 years with a mean temperature of 14.0°C (-1.4°C from its LTA) while Carron, Co Clare reported its coldest August in 22 years with a mean temperature of 13.4°C (-1.2°C from its LTA). The majority of highest temperatures were recorded on the 13th and between the 16th and 20th, with the month's



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Flooding in Carrigaline, Co Cork at the start of the month. During the first four days of August, Cork stations at Roche's Point and Cork Airport reported between 30 mm and 40 mm of rain (nearly half their August normal rainfall). This, combined with double the expected rainfall the previous month led to flooding in some areas. (Picture Courtesy Irish Examiner. Photographer: Howard Crowdy)

highest temperature of 24.6°C recorded at Wexford Wildfowl Reserve on the 19th, its highest August maximum since 2003 and the second highest since the site opened in 1992. Dublin Airport also recorded its highest maximum since 2006 (on the 18th) with 23.3°C. The month's lowest air temperature was 2.8°C reported at Castleconnell, Co Limerick on the 8th while the month's lowest grass minimum was -1.9°C at Ashford (Cronykeery), Co Wicklow on the 25th.

Monthly rainfall comparisons to LTAs were variable, with the majority of stations reporting near or above average rainfall for August. Percentage of LTA values ranged from 55% at Inishere, Co Galway (monthly total 56.3 mm) to 179% at Curry, Co Sligo (monthly total 172.3 mm). Curry attributed nearly half of its monthly total to its wettest day on the 22nd, where it recorded 85.8 mm, the highest amount of daily rainfall recorded in Ireland in a 24-hour period during August 2015 and its wettest day at the station since it opened in 1997. Monthly rainfall totals in low-lying areas (regions below 200m) ranged from 43.4 mm (65% of its LTA) at Bannow, Co Wexford to 226.4 mm (123% of LTA), at Cloone Lake (Caragh River Area), Co Kerry. The overall highest accumulation was at a

gauge in the Cumberagh Mountains, Co Kerry with 287.9 mm (113% of LTA).

Percentage of Long-Term Average (LTA) sunshine values were variable across the country, ranging from 61% at Knock Airport, Co Mayo (monthly sunshine total of 75.5 hours, its dullest August in 7 years) to 115% at Shannon Airport, Co Clare (monthly sunshine of 162.9 hours). The month's sunniest day was at Cork Airport on the 12th with 14.1 hours, its sunniest August day in nine years.

Wind and elements: Monthly mean wind speeds ranged from 5.4 knots (10.0 km/h) at Mullingar, Co Westmeath to 13.9 knots (25.7 km/h) at Mace Head, Co Galway. Gale force winds were reported on the 3rd and 4th in parts of the West and Southwest, with severe gale force winds reported at Mace Head on the 3rd, when both the month's highest 10-minute mean wind speed and month's highest gust were recorded with 42 knots (78 km/h) and 54 knots (100 km/h), respectively, both the highest for August since the station opened in 2008. Fourteen days reported fog, with Carron, Co Clare reporting the highest number of days with fog with nine. There were no reports of air frost, with isolated stations in the West, Midlands and East reporting ground frost on the 7th, 8th, 13th, 15th, 25th and 28th.

COOL; VARIABLE RAINFALL AND SUNSHINE

All seasonal mean temperatures were below their Long-Term Average (LTA) after almost all stations reported below their monthly LTAs for all three months of summer. The coolest month (compared to LTA) was July where parts of the Midlands and Northwest reported mean air temperatures of nearly 2°C below normal. June was the only month which had some monthly mean air temperatures above LTA, reported at a few isolated stations in the East, Southeast and East. Differences from seasonal LTA were largest at both Athenry, Co Galway and Markree, Co Sligo with 1.6°C below average with summer means of 13.4°C and 13.0°C, respectively. Summer temperatures were nearest to normal at both Derrygreenagh, Co Offaly and Waterford (Tycor) with 0.3°C below their LTAs with summer means of 14.3°C and 15.5°C, respectively. Summer mean temperatures ranged from 12.5°C at Knock Airport, Co Mayo (difference from LTA -0.9°C) to 15.4°C at Dublin (Glasnevin) (difference from LTA -0.4°C). The majority of summer mean temperatures were lower in 2011. The majority of highest maxima were recorded between June 30th and July 3rd, with summer's highest temperature reported on June 30th at Dublin (Glasnevin) with 26.1°C, its highest June temperature since 2000. Most lowest minima (both air and grass) were during the first two weeks of June with the season's lowest air temperature reported at Dublin Airport on June 9th, its lowest for summer since the station opened in 1942. Summer's lowest grass minimum temperature of -3.4°C was recorded on the same date at both Cloosh, Co Galway and Casement Aerodrome, Co Dublin, with Casement reporting it as its lowest for summer since 1965. The number of days with ground frost ranged from zero at most stations to 12 days at Kilkenny (Greenshill). Despite low temperatures, there was no air frost.

Percentage of seasonal rainfall totals were variable with all three month's of summer reporting variable rainfall. The driest conditions (compared to monthly LTAs) were

reported in the Dublin area in June which reported low rainfall totals due to a 'dry spell' between the 5th and 26th. Wettest conditions were in the Northwest in July with over 200% reported in parts. Percentage of summer LTAs ranged from 55% at Inishere, Co Galway with a total of 140.3 mm to 149% at Roscommon (Vocational School) with 343.1 mm. Rainfall totals in low-lying areas ranged from 138.8 mm (73% of LTA) at Celbridge (Ardrass House), Co Kildare to 599.0 mm (119% of LTA) at Maam Valley, Co Galway. The highest overall rainfall was at a gauge in the Cummeragh mountains with 894.1 mm (126% of summer LTA). Most stations reported wetter conditions in summer 2012. Summer's wettest day was reported on August 22nd at Curry, Co Sligo with 85.8 mm, its wettest summer day on record since the station opened in 1997. The number of wet days ranged from 23 days at Kilcoole (Treatment Plant) to 72 days at Mulrany (Doughbeg), Co Mayo, its highest number of summer wet days since the station opened in 1984.

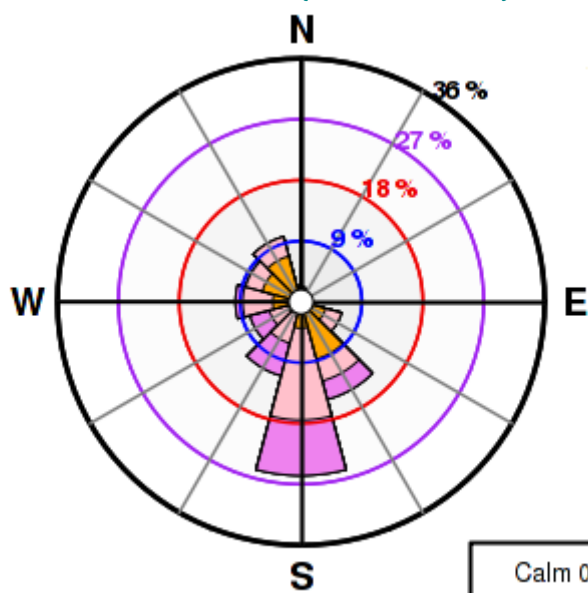
Percentage of summer sunshine totals were variable, with all three months reporting variable monthly LTAs. Percentage of summer LTA sunshine values ranged from 73% at Knock Airport, Co Mayo (lowest seasonal total of 294.0 hours) to 109% at Dungarvan (Carriglea), Co Waterford (highest seasonal total of 541.0 hours), its sunniest spring in five years. The season's sunniest day was June 10th at both Dublin Airport and Casement Aerodrome with 15.7 hours. The number of dull days (*days with less than 0.5 hours of sunshine*) ranged from five at Dublin (Glasnevin) to 25 at Sherkin Island, Co Cork.

Seasonal mean wind speeds ranged from 5.9 knots (10.9 km/h) at Mullingar, Co Westmeath to 13.8 knots (25.5 km/h) at both Mace Head, Co Galway. Summer's highest gust and highest 10-minute wind speed were both at Malin Head, Co Donegal on June 1st. The season's highest gust was 62 knots (115 km/h) while the highest 10-minute wind speed was 47 knots (87 km/h) both the highest at the station since summer of 1988.

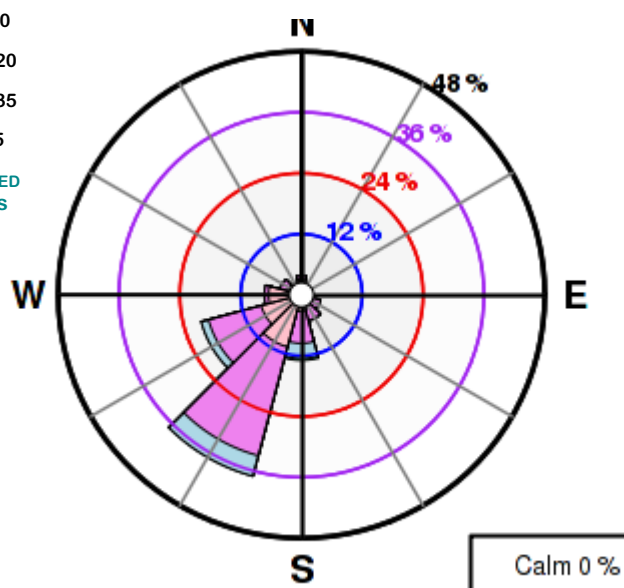
COUNTY/STATION	RAINFALL (mm)					TEMPERATURE (°C)						SUNSHINE (HRS)				WIND			
	TOTAL	% OF LTA	MOST IN A DAY	NO. OF RAINFALL DAYS	NO. OF WET DAYS	DIFFERENCE FROM LTA		EXTREMES		NO. OF DAYS GROUND FROST	NO. OF DAYS AIR FROST	TOTAL	% OF AVERAGE	MOST IN A DAY	NO. OF DULL DAYS	HIGHEST GUST (KNOTS)	HIGHEST 10-MIN WIND SPEED (KNOTS)	NO. OF DAYS GALES	NO. OF DAYS GUSTS ≥34 KNOTS
						MEAN		MAXIMUM	MINIMUM										
CO CARLOW CARLOW (OAK PARK)	192.1	100	28.4*	44*	30*	14.4	-0.9	24.0	3.6	6	0					41	24	0	3
CO CAVAN BALLYHAISE	283.1	122	24.9	62	49	13.5	-1.3	24.0	2.0	2	0					38	25	0	4
CO CLARE SHANNON AIRPORT	203.0	93	13.2	62	46	14.5	-1.3	22.9	4.2	0	0	468.4	107	15.4	15	47	31	0	13
CO CORK CORK AIRPORT	313.4	122	33.5	56	41	13.7	-1.0	21.5	4.1	1	0	489.5	97	14.8	14	44	29	0	7
ROCHE'S POINT CO DONEGAL	278.6	131	27.3	45	38	14.1	-0.9	21.3	6.6	0	0					47	37	1	12
FINNER MALIN HEAD	292.2	109	26.7	64	48	13.4	-1.1	23.9	3.5	2	0					45	31	0	8
CO DUBLIN	299.1	121	22.6	66	51	13.1	-0.8	24.7	5.7	1	0					62	47	6	19
CASEMENT AERODROME DUBLIN AIRPORT	148.1	78	21.3	45	32	14.2	-0.7	25.4	2.1	3	0	461.7	99	15.7	8	52	36	1	8
	183.4	93	23.5	46	31	13.8	-1.0	24.7	0.7	5	0	496.9	100	15.7	6	51	34	1	8
CO KERRY VALENTIA OBSERVATORY	326.1	105	21.0	69	54	13.9	-1.0	20.5	6.3	0	0					45	31	0	10
CO MAYO BELMULLET	279.7	111	23.8	66	47	13.3	-1.1	22.8	5.2	0	0	399.0	93	14.0	17	54	42	3	15
KNOCK AIRPORT CO TIPPERARY	390.2	132	56.5	67	57	12.5	-0.9	21.3	3.8	0	0	294.0	73	12.8	18	47	34	1	6
GURTEEN CO WESTMEATH	165.7	74	12.7*	58*	40*	13.8	-1.1	23.1	1.7	4	0					39	24	0	4
MULLINGAR CO WEXFORD	210.3	91	22.4*	62*	41*	13.5	-1.0	23.2	3.7	6	0					37	22	0	2
JOHNSTOWN CASTLE	203.4	89	23.7	48	33	14.0	-1.0	22.1	5.3	0	0					40	25	0	5

COUNTY / STATION	WIND (knots)										ELEMENTS (no.of days)				
	MEAN SPEED	MAX. 10-MIN. DIR. SPEED	MEAN DATE/HOUR	MAX. GUST DIR. SPEED	GUST DATE/TIME	DAYS WITH		HOURS WITH		SNOW	SNOW LYING	HAIL	THUNDER	FOG	
						GALES	GUST ≥ 34KNOTS	GUST ≥ 34KNOTS							
CO CARLOW															
OAK PARK	6.9	180° 22	3/15	210° 41	26/ 331	0	1	1							
CO CAVAN															
BALLYHAISE	5.8	160° 20 230° 20	3/21 4/12	220° 37	4/1302	0	2	2							
CO CLARE															
SHANNON AIRPORT	8.6	200° 31	3/17	200° 47	3/1620	0	5	15	0	0	0	0	1		
CO CORK															
FERMOY (MOORE PARK)	5.5	130° 18 180° 18	2/15 3/15	190° 33	3/1808	0	0	0							
SHERKIN ISLAND	10.2	230° 34	3/22	230° 43	3/2230	1	4	14							
ROCHE'S POINT	11.1	190° 31	3/18	210° 42	3/2342	0	5	16							
CORK AIRPORT	8.6	210° 27	3/16	200° 38	3/1501	0	2	12	0	0	0	0	9		
CO DONEGAL															
MALIN HEAD	12.1	170° 31	3/23	170° 42	3/2318	0	6	27							
FINNER	8.7	160° 24 240° 24	3/21 27/ 4	150° 38	3/2138	0	2	6							
CO DUBLIN															
DUBLIN AIRPORT	9.2	200° 25 220° 25	3/17 4/12	220° 37	27/1609	0	3	10	0	0	0	1	1		
CASEMENT AERODROME	8.2	200° 26 230° 26	3/24 4/13	180° 39	3/1640	0	2	10	0	0	0	1	0		
CO GALWAY															
MACE HEAD	13.9	180° 42	3/17	180° 54	3/1758	2	5	53							
ATHENRY	6.6	200° 21	3/15	250° 34	4/1342	0	1	1							
CO KERRY															
VALENTIA OBSERVATORY	8.2	190° 29	3/14	200° 42	3/1912	0	2	20							
CO MAYO															
CLAREMORRIS	7.4	190° 25	3/15	180° 45	3/1627	0	1	8							
BELMULLET	12.1	160° 40	3/15	160° 53	3/1655	1	5	37							
NEWPORT	8.7	180° 29	3/15	170° 44	3/1833	0	2	14							
KNOCK AIRPORT	8.2	190° 31	3/18	180° 47	3/1714	0	1	10	0				11		
CO MEATH															
DUNSANY (GRANGE)	6.8	220° 23	4/10	230° 39	4/1051	0	1	1							
CO ROSCOMMON															
MOUNTDILLON	6.1	190° 22	3/16	180° 34	3/1637	0	1	1							
CO TIPPERARY															
GURTEEN (AG COLLEGE)	7.4	160° 23 190° 23	2/13 3/18	190° 36	3/1806	0	1	1							
CO WESTMEATH															
MULLINGAR	5.4	180° 18	3/14	180° 30 210° 30	3/1823 4/ 421	0	0	0							
CO WEXFORD															
JOHNSTOWN CASTLE	8.1	210° 22	26/15	220° 34	4/1500	0	1	1							

CARLOW (OAK PARK)

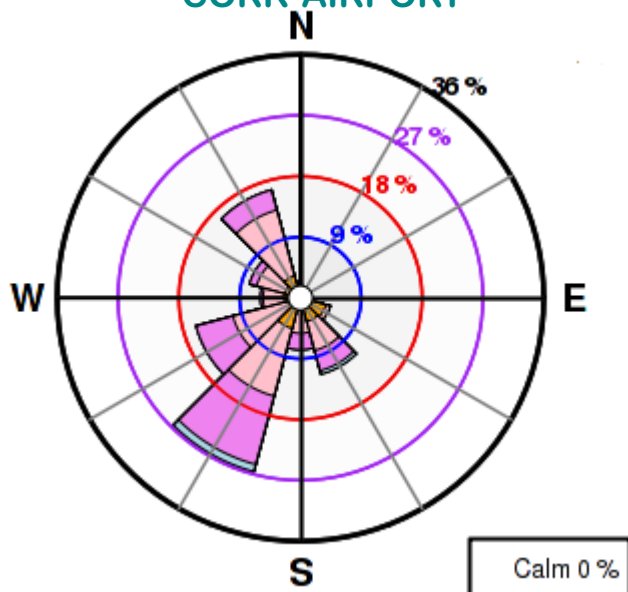


BELMULLET

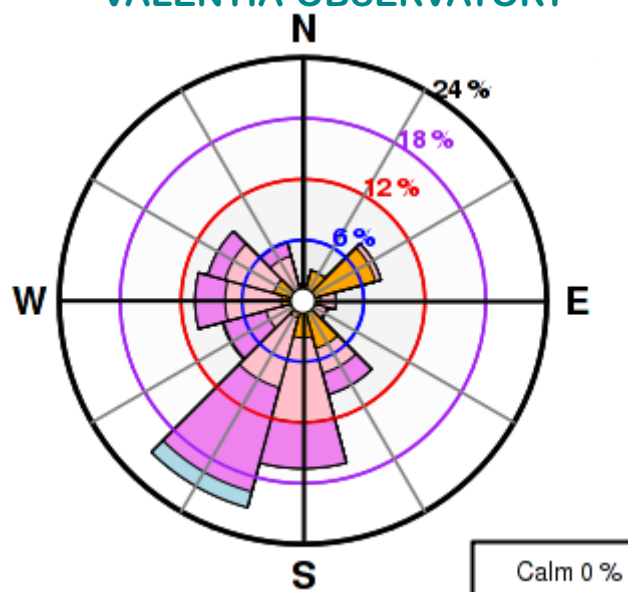


PERCENTAGE FREQUENCY OF WIND DIRECTION

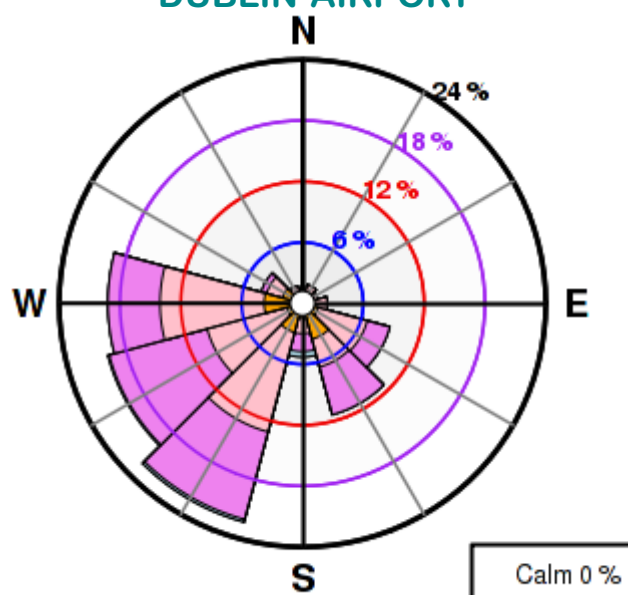
CORK AIRPORT



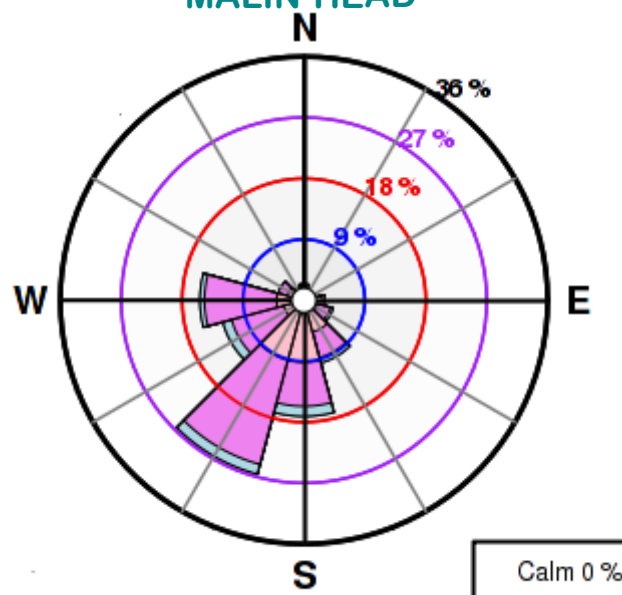
VALENTIA OBSERVATORY



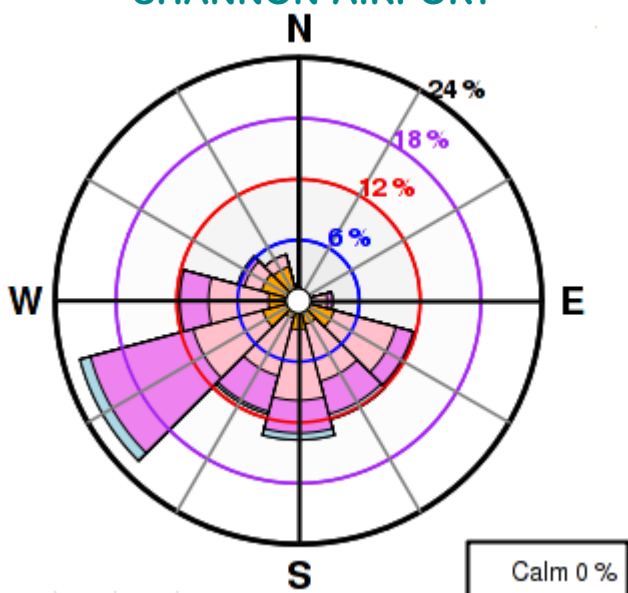
DUBLIN AIRPORT



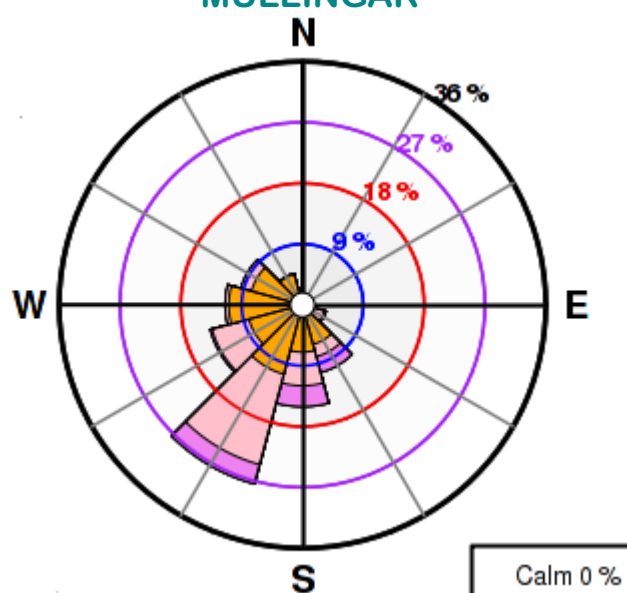
MALIN HEAD



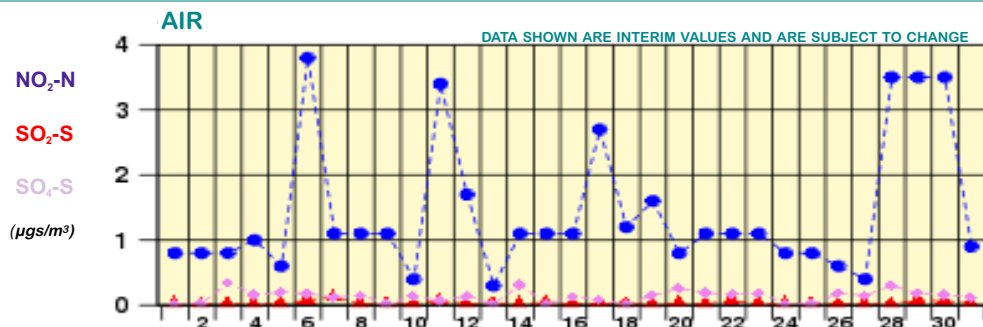
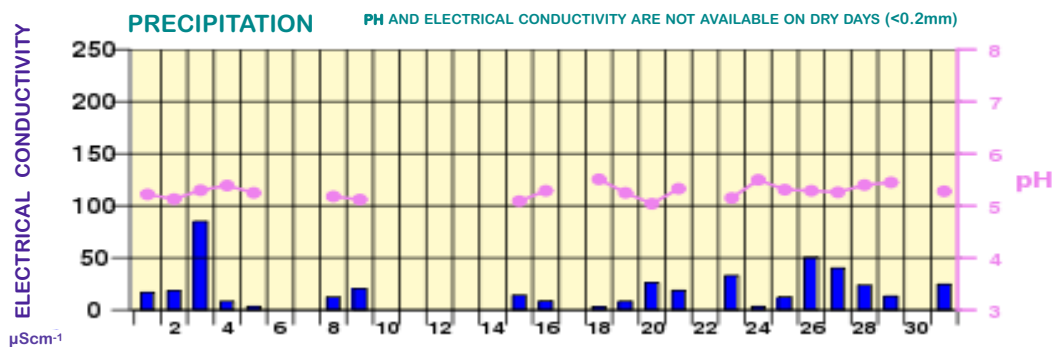
SHANNON AIRPORT



MULLINGAR



CHEMICAL ANALYSIS OF PRECIPITATION AND AIR SAMPLES AT VALENTIA OBSERVATORY



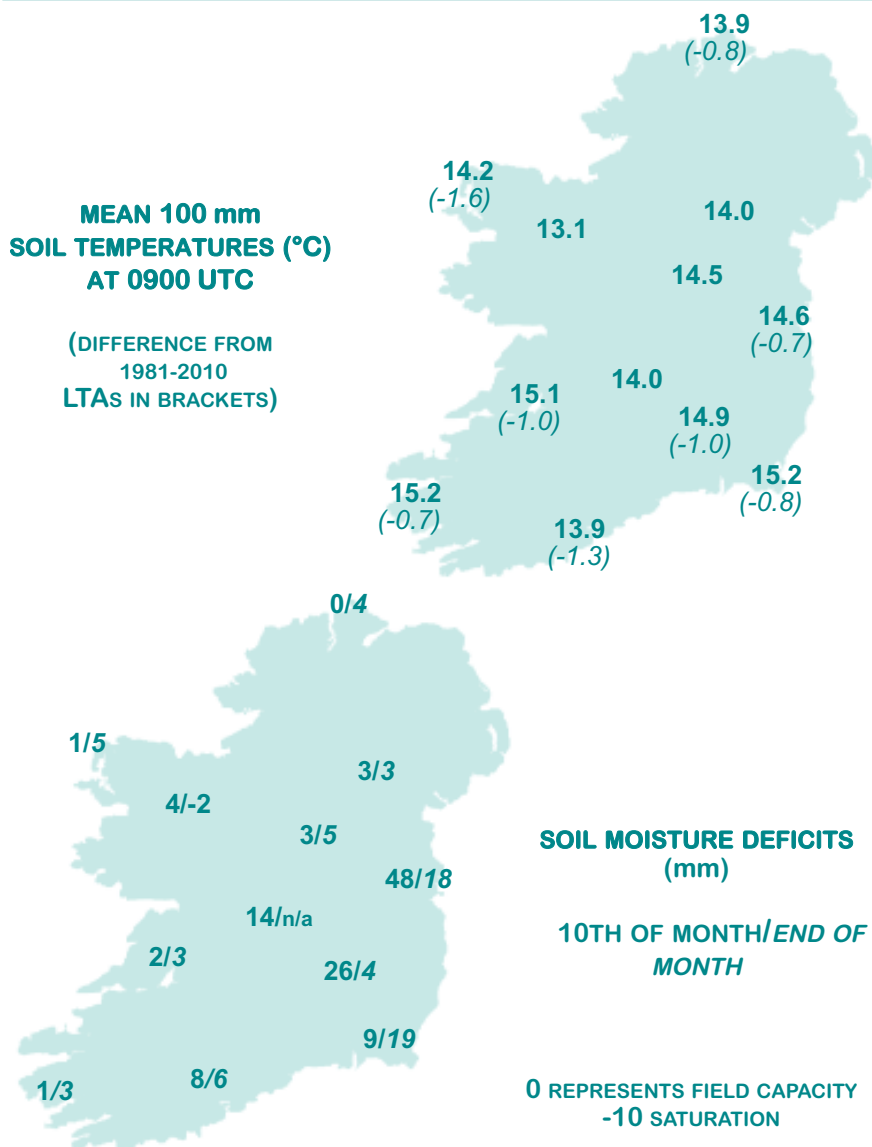
Acid rain occurs when pollutants combine with moisture in the air to form sulphuric or nitric acid. pH is the simplest way of measuring the acidity of precipitation. Usually pH of 7.00 is considered neutral but this is not the case in rainfall samples. Pure water in the atmosphere has an equilibrium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

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

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

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

(DIFFERENCE FROM 1981-2010 LTAS IN BRACKETS)



MEAN SOIL TEMPERATURES (°C) AT 0900 UTC

COUNTY/STATION	100 mm	200 mm	300 mm
CO CARLOW			
CARLOW (OAK PARK)	14.9	15.1	15.3
CO. CAVAN			
BALLYHAISE	14.0	14.4	15.2
CO CLARE			
SHANNON AIRPORT	15.1	15.6	15.9
CARRON	14.1		14.5
CO CORK			
ROCHE'S POINT	14.6	14.7	15.1
FERMOY (MOORE PARK)	14.8	14.9	15.3
CORK AIRPORT	13.9	14.3	15.0
SHERKIN ISLAND	14.7	14.8	15.5
BALLINCURRIG (PEAFIELD)	14.5	14.5	15.1
CO DONEGAL			
MALIN HEAD	13.9	13.8	14.2
CO DUBLIN			
PHOENIX PARK	15.3	16.0	15.8
DUBLIN AIRPORT	14.3	14.7	15.2
CASEMENT AERODROME	14.6	14.5	14.8
CO KERRY			
VALENTIA OBSERVATORY	15.2	15.7	15.7
CO LIMERICK			
MOUNTRUSSELL	13.8	14.6	
CO MAYO			
BELMULLET	14.2	14.8	15.3
NEWPORT (FURNACE)	14.1	14.3	14.8
STRAIDE	15.3		
KNOCK AIRPORT	13.1	13.4	13.5
CO MEATH			
WARRENSTOWN	14.8	15.5	16.7
DUNSANY (GRANGE)	14.0	14.9	15.2
CO TIPPERARY			
GURTEEN (AG COLLEGE)	14.0	14.2	14.4
FETHARD (PARSONSHILL)	--not available--		
CO WATERFORD			
DUNGARVAN (CARRIGLEA)		15.9	16.1
CO WESTMEATH			
MULLINGAR	14.5	14.9	15.6
CO. WEXFORD			
JOHNSTOWN CASTLE	15.2	14.9	15.1
JFK PARK	15.8		17.1
CLONROCHE	15.3	15.5	15.8
CO WICKLOW			
ASHFORD (CRONYKEERY)	15.5	15.4	16.2

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	48.4		7	4	17.3	10.2	13.8		6.7	8	0	94	39	6.5	8	0	14.4	14.7	36.5	
BALLINCURRIG	11-20	14.2		5	4	18.7	11.1	14.9		7.6	15	0	105	50	6.1	15	0	15.2	15.9	40.8	
(PEAFIELD)	21-END	55.1		9	9	17.8	10.9	14.4		8.9	27	0	109	48	7.0	27	0	13.9	14.8	57.5	
	MONTH	117.7	119	21	17	17.9	10.7	14.3	-0.6	6.7	8	0	308	137	6.1	15	0	14.5	15.1	134.8	79
CO DONEGAL	1-10	68.8		8	8	16.4	10.1	13.3		4.5	7	0	89	35	0.9	7	0	-	-	-	
GLENTIES HATCHERY	11-20	11.0		8	5	18.0	10.3	14.2		7.2	13	0	97	43	3.9	13	0	-	-	-	
	21-END	84.2		10	9	16.7	11.1	13.9		8.1	31	0	104	43	5.6	31	0	-	-	-	
	MONTH	164.0	131	26	22	17.0	10.5	13.8	-0.7	4.5	7	0	290	121	0.9	7	0	-	-	-	
CO KERRY	1-10	39.8		8	8	17.3	10.7	14.0		6.7	7	0	96	42	6.2	7	0	-	-	36.2	
ARDFERT	11-20	14.9		7	5	18.7	11.0	14.9		6.4	13	0	104	50	5.7	13	0	-	-	40.3	
(LISCAHANE)	21-END	30.9		11	7	17.8	11.2	14.5		7.5	25	0	111	50	6.2	25	0	-	-	44.3	
	MONTH	85.6	95	26	20	17.9	11.0	14.5	-1.0	6.4	13	0	312	142	5.7	13	0	-	-	120.8	82
CO MONAGHAN	1-10	26.7		8	8	18.3	10.4	14.4		5.2	8	0	99	46	-	-	-	-	-	-	
CARRICKMACROSS	11-20	6.9		3	2	19.5	9.1	14.3		5.2	16	0	99	47	-	-	-	-	-	-	
	21-END	54.8		9	7	17.9	9.8	13.9		3.6	25	0	104	46	-	-	-	-	-	-	
	MONTH	88.4	109	20	17	18.6	9.7	14.1	-1.0	3.6	25	0	302	138	-	-	-	-	-	-	
CO WATERFORD	1-10	45.0		5	4	18.9	11.5	15.2		6.0	8	0	108	53	2.5	8	0	-	16.0	51.6	
DUNGARVAN	11-20	11.2		5	4	18.7	10.6	14.7		6.8	18	0	102	48	3.5	18	0	-	16.3	56.6	
(CARRIGLEA)	21-END	33.4		6	6	18.6	10.5	14.6		7.5	27	0	111	52	3.6	28	0	-	16.2	76.5	
	MONTH	89.6	97	16	14	18.7	10.8	14.8	-1.1	6.0	8	0	321	153	2.5	8	0	-	16.1	184.7	111
CO WEXFORD	1-10	31.6		5	4	17.7	11.3	14.5		7.6	8	0	101	46	5.2	8	0	15.9	17.0	39.4	
JFK PARK	11-20	8.4		3	1	19.6	10.1	14.9		6.2	15	0	105	51	2.6	15	0	16.5	17.3	53.2	
	21-END	38.4		6	5	18.1	10.8	14.5		7.9	27	0	110	50	4.8	27	0	15.2	17.0	65.0	
	MONTH	78.4	91	14	10	18.5	10.7	14.6	-0.8	6.2	15	0	316	147	2.6	15	0	15.8	17.1	157.6	99
CO WICKLOW	1-10	33.9		6	5	19.1	11.5	15.3		6.8	8	0	109	55	0.8	1	0	16.0	16.2	43.8	
ASHFORD	11-20	7.5		3	2	19.4	8.9	14.2		6.3	12	0	97	45	0.4	12	0	16.0	16.3	62.8	
(CRONYKEERY)	21-END	51.5		4	3	18.2	9.5	13.9		4.4	25	0	104	47	-1.9	25	2	14.8	16.0	54.4	
	MONTH	92.9	130	13	10	18.8	10.0	14.4	-1.1	4.4	25	0	310	147	-1.9	25	2	15.5	16.2	161.0	101

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)
CO CARLOW		CO CARLOW						
CARLOW (OAK PARK)	71	CARLOW (OAK PARK)*	147.41	150.84	138.15	436.40		
CO CAVAN		CO CAVAN						
BALLYHAISE	66	BALLYHAISE*	142.62	143.73	136.41	422.76		
CO CLARE		CO CORK						
SHANNON AIRPORT	70	ROCHE'S POINT*	146.84	148.95	174.25	470.04	CO KERRY	
CO CORK		CO DONEGAL					VALENTIA OBSERVATORY	126.2
CORK AIRPORT	61	MALIN HEAD*	126.08	151.73	139.17	416.98	CO KERRY	
CO DONEGAL		CO DUBLIN					NORTH KERRY LANDFILL	N/A
MALIN HEAD	65	DUBLIN AIRPORT*	147.42	165.42	132.04	444.88	CO MAYO	
CO DUBLIN		CO KERRY					NEWPORT (FURNACE)	114.0
DUBLIN AIRPORT	73	VALENTIA OBS.*	130.88	148.65	151.03	430.56	CO OFFALY	
CASEMENT AERODROME	72	CO MAYO					DERRYGREENAGH	104.6
CO KERRY		BELMULLET*	131.46	141.96	146.17	419.59	CO WATERFORD	
VALENTIA OBS.	62	CO TIPPERARY					DUNGARVAN (CARRIGLEA)	89.6
CO MAYO		GURTEEN (AG.COLLEGE)*	149.32	150.91	153.52	453.75	CO WEXFORD	
BELMULLET	63	CO WESTMEATH					JFK PARK	78.4
KNOCK AIRPORT	54	MULLINGAR*	143.30	146.23	133.66	423.19		86.8
CO TIPPERARY		CO WEXFORD						
GURTEEN (AG.COLLEGE)	69	JOHNSTOWN CASTLE*	164.76	165.86	159.75	490.37		
CO WESTMEATH								
MULLINGAR	65							
CO WEXFORD								
JOHNSTOWN CASTLE	67							

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

Saturday 1st: Heavy showers developed over the northern half of the country in the late morning. Light rain spread into the Southwest during the evening. It clouded over early in the Southwest but was progressively sunnier further north and east. Winds were light to moderate, southwesterly.

Rainfall: 0.4 mm at Castlebridge (Sewage Works) to 15.3 mm at Gladree
Temperature: Lowest max. 15.1°C at Sherkin Island, Knock Apt, highest max. 20.0°C at Cahore (Kilmichael Hse). Lowest min. 5.5°C at Horseleap, highest min. 11.9°C at Sherkin Island, Roches Pt
Sunshine: 2.1 hours at Sherkin Island to 10.2 hours at Casement

Sunday 2nd: Rain overnight continued in the West, North and southeast coasts during the morning. Persistent rain then moved into the South during the afternoon and pushed northeastwards during the evening, affecting all areas. Winds were fresh to strong, southeasterly.

Rainfall: Nil at Dublin (Ringsend) to 44.6 mm at Glenivkece (Caragh River Area)
Temperature: Lowest max. 15.2°C at Slieve Bloom Mtns (Nealstown), highest max. 19.4°C at Dunmoe (Craigs Lane). Lowest min. 7.0°C at Raphoe (Tops), highest min. 13.7°C at Waterford (Tycor)
Sunshine: Nil at numerous locations to 4.4 hours at Clonroche (Knoxtown)

Monday 3rd: Rain and showers across the country overnight though it was quite mild. The morning saw the eastern half of the country dry with sunny spells. Elsewhere there were scattered showers which later on in the evening turned to heavy rain. Winds were moderate to fresh, southwesterly.

Rainfall: Nil at numerous locations to 41.4 mm at Derrypark
Temperature: Lowest max. 15.8°C at Mace Head, Sherkin Island, highest max. 20.6°C at Dublin (Glasnevin), Dun Laoghaire. Lowest min. 9.5°C at Raphoe (Tops), highest min. 15.4°C at Dublin (Glasnevin)
Sunshine: 2.9 hours at Knock Apt to 11.0 hours at Dungarvan (Carriglea)

Tuesday 4th: Showers for most of the day, heaviest in the West but lighter in the East and Southeast. More rain arrived in the Southwest at around dusk. Temperatures were mild; the best of any sunshine was near the east coast. Winds were light to moderate, southwesterly.

Rainfall: 0.2 mm at Monaghan (Knockroe), Oldbridge (Oakview) to 24.2 mm at Cloone Lake (Caragh River Area)
Temperature: Lowest max. 13.9°C at Ballina Golf Club, highest max. 20.3°C at Ashford (Cronykeery). Lowest min. 10.0°C at Raphoe (Tops), Ballycroy (Knockmoyleen), highest min. 14.4°C at Dublin (Glasnevin)
Sunshine: Nil at numerous locations to 6.8 hours at Dublin (Glasnevin)

Wednesday 5th: A cloudy day overall with widespread outbreaks of rain, with heavy and thundery outbursts, affecting mainly the Midlands, East and North by the afternoon. A clearance from the West started in the afternoon, covering all areas by nightfall. Winds were light to moderate, southeast to southwest.

Rainfall: Nil at numerous locations to 36.7 mm at Frenchpark Callow
Temperature: Lowest max. 13.7°C at Knock Apt, highest max. 20.6°C at Castleconnell. Lowest min. 9.8°C at Knock Apt, highest min. 13.2°C at Dublin (Glasnevin)
Sunshine: Nil at numerous locations to 5.2 hours at Belmullet

Thursday 6th: Rain to start but this quickly cleared, followed by a scattering of mostly light showers for the rest of the day but many places stayed dry. There were sunny spells in most areas. Winds were light to moderate, southwesterly.

Rainfall: Nil at numerous locations to 5.9 mm at Ballyhaunis (Lavallyroe)
Temperature: Lowest max. 15.3°C at Sherkin Island, highest max. 19.8°C at Dunmoe (Craigs Lane). Lowest min. 4.8°C at Horseleap, highest min. 12.5°C at Dooks
Sunshine: 2.1 hours at Ballincurrig (Peafield) to 8.9 hours at Belmullet

Friday 7th: It was a dry day apart from some light rain and showers mainly on south and west coasts, with isolated showers in the East. There were some good sunny spells. Winds were light, southwest to northwest.

Rainfall: Nil at numerous locations to 2.9 mm at Roundstone
Temperature: Lowest max. 15.6°C at Malin Head, highest max. 20.7°C at Glengarriff (Ilacullin). Lowest min. 3.2°C at Straide, highest min. 12.6°C at Dublin (Glasnevin)
Sunshine: 2.4 hours at Casement to 11.8 hours at Sherkin Island

Saturday 8th: It was a cool, dry start with only light rain or drizzle along the south and west coasts. Further rain and drizzle moved into the South and Southwest by noon and moved eastwards across the country. This cleared the east coast by nightfall with just isolated showers and mist remaining. Winds were moderate to fresh, southwesterly.

Rainfall: Nil at numerous locations to 22.3 mm at Maam Valley
Temperature: Lowest max. 14.4°C at Knock Apt, highest max. 20.3°C at Dublin (Glasnevin). Lowest min. 2.8°C at Castleconnell, highest min. 13.1°C at Mace Head
Sunshine: Nil at numerous locations to 7.7 hours at Clonroche (Knoxtown)

Sunday 9th: Some drizzle in the early morning, but it became mainly dry by noon, with some sunny breaks. The afternoon was mostly dry, with some sunshine, but there were isolated showers in the West. The evening and night was dry, with some good sunny/clear periods, but again some drizzle along the northwest coast. Winds were moderate to fresh, southwesterly.

Rainfall: Nil at numerous locations to 18.5 mm at Killadoon
Temperature: Lowest max. 14.9°C at Sherkin Island, highest max. 22.2°C at Dun Laoghaire. Lowest min. 8.8°C at Mallow (Hazelwood), highest min. 15.4°C at Dublin (Glasnevin)
Sunshine: 0.1 hours at Sherkin Island, Ballincurrig (Peafield), Cork Apt to 5.5 hours at Ardfer (Lisacahane)

Monday 10th: Scattered showers during the morning, with some sunny breaks. The afternoon was mostly dry with more sunshine, but with the occasional shower. Again some well scattered showers through the evening, but still a lot of dry weather with good sunny periods. Winds were moderate, southwesterly.

Rainfall: Nil at numerous locations to 19.9 mm at Lisglennan WW
Temperature: Lowest max. 15.1°C at Newport (Furnace), Ballyshannon (Cathleen's Fall), Delphi Lodge, Ballycroy (Knockmoyleen), highest max. 21.4°C at Waterford (Tycor). Lowest min. 10.5°C at Ballycroy (Knockmoyleen), highest min. 15.6°C at Dublin (Glasnevin)
Sunshine: 1.6 hours at Ballyshannon (Cathleen's Fall) to 11.7 hours at Sherkin Island

Tuesday 11th: It was mild overnight with just a few showers on the west coast and over Ulster. The day was dry and calm but it was mainly cloudy with sunny spells developing in places in late afternoon and evening. Winds were light, northwesterly.

Rainfall: Nil at numerous locations to 6.1 mm at Castlbar (Burren)
Temperature: Lowest max. 14.9°C at Listowel (Gurtocloghane), highest max. 19.7°C at Dublin (Glasnevin). Lowest min. 8.0°C at Cork Apt, highest min. 12.5°C at Dublin (Glasnevin), Dooks
Sunshine: Nil at Sherkin Island to 8.0 hours at Dublin Apt

Wednesday 12th: Dry overnight with some mist and fog patches inland. A warm day with good sunny spells for the Midlands, East and South with cooler and cloudier conditions in the West and along Atlantic coasts. Winds were light, variable in direction.

Rainfall: Nil at numerous locations to 3.3 mm at Goleen
Temperature: Lowest max. 14.8°C at Belderrig, highest max. 22.3°C at Durrow. Lowest min. 3.5°C at Durrow, Littleton, highest min. 13.2°C at Mace Head
Sunshine: Nil at numerous locations to 14.1 hours at Cork Apt

Thursday 13th: Overnight, some patchy fog, clearing early on. Mainly a warm day with good sunny spells away from Atlantic coastal areas where it was cooler and cloudier. Some light rain in the Northwest by evening. Winds were light, variable in direction.

Rainfall: Nil at numerous locations to 4.6 mm at Dunlewy Lough
Temperature: Lowest max. 16.4°C at Belmullet, highest max. 24.0°C at JFK Park. Lowest min. 3.5°C at Mt Dillon, highest min. 12.8°C at Roches Pt
Sunshine: 4.7 hours at Belmullet to 11.8 hours at Dublin Apt

Friday 14th: Mostly dry overnight, with just some light rain in the North during the early hours and in the West around dawn. Showers developed in the western half of the country during the afternoon, gradually receding back to Atlantic coasts by late evening. Winds were light to moderate, southwest to northwest.

Rainfall: Nil at numerous locations to 9.3 mm at Ballyshannon (Cathleen's Fall)
Temperature: Lowest max. 14.5°C at Knock Apt, highest max. 21.0°C at Cahore (Kilmichael Hse). Lowest min. 5.8°C at Craggaunowen, highest min. 13.1°C at Dooks
Sunshine: 0.4 hours at Casement to 9.8 hours at Sherkin Island

Saturday 15th: Showers in western and northwestern coastal counties overnight and into the morning. These showers spread countrywide during the afternoon, dying out during the evening. A mixture of cloudier conditions and sunny breaks. Winds were mainly light, southwesterly.

Rainfall: Nil at numerous locations to 6.0 mm at Drimoleague (Angram)
Temperature: Lowest max. 14.1°C at Knock Apt, highest max. 19.0°C at Cahore (Kilmichael Hse), Castleconnell. Lowest min. 4.7°C at Durrow, highest min. 12.0°C at Dooks
Sunshine: 0.5 hours at JFK Park to 7.3 hours at Shannon Apt

Sunday 16th: Mainly dry overnight with some showery rain in the Southwest. The rain spread into Munster and south Leinster during the morning but dying out further north and east. Winds were light southeast to southwest.

Rainfall: Nil at numerous locations to 20.3 mm at Skibereen (Water Treatment Plant)
Temperature: Lowest max. 14.9°C at Ballymore, highest max. 20.4°C at Newport (Furnace). Lowest min. 4.0°C at Mullingar, highest min. 13.4°C at Sherkin Island
Sunshine: Nil at numerous locations to 8.1 hours at Newport (Furnace)

Monday 17th: Mostly dry but showers developed during the late morning, becoming heavy in north Connacht and Ulster during the afternoon. The showers petered out during the evening. Winds were light, southeasterly.
Rainfall: Nil at numerous locations to 13.5 mm at Illies (Pollan Dam Waterworks)
Temperature: Lowest max. 15.5°C at Glengarriff (Innacullin), highest max. 22.8°C at Ardee (Boharnamoe). Lowest min. 5.7°C at Dublin Apt, highest min. 14.2°C at Valentia Obs
Sunshine: Nil at Sherkin Island to 12.0 hours at Dublin Apt

Tuesday 18th: Fog early on before becoming a dry morning with some good sunshine. Showers developed during the afternoon, but there were some good sunny periods countrywide. Mostly dry during early evening and night, but rain arrived later. Winds were light, variable in direction.
Rainfall: 0.1 mm at Ardee (Boharnamoe) to 22.3 mm at Waterville
Temperature: Lowest max. 16.4°C at Malin Head, highest max. 24.2°C at Phoenix Park. Lowest min. 4.0°C at Castleconnell, highest min. 14.3°C at Roches Pt
Sunshine: 2.7 hours at Ballincurrig (Peafield) to 13.3 hours at Arklow (Ballyrichard Hse)

Wednesday 19th: Rain early on in the South moving eastwards across the country to affect most areas by morning. Rain turned to scattered showers later in the day. By evening time there was some good sunshine in most places with isolated showers. Winds were light to moderate, southwesterly.
Rainfall: Nil at numerous locations to 17.1 mm at Riverstown (Glenmore Upper)
Temperature: Lowest max. 15.5°C at Mace Head, highest max. 24.6°C at Wexford Wildfowl Reserve. Lowest min. 8.9°C at Dundalk (Annaskeagh WW), highest min. 15.5°C at Killarney (Muckross Hse)
Sunshine: 0.1 hours at Ballyshannon (Cathleen's Fall) to 4.5 hours at Cork Apt

Thursday 20th: Showers and patchy drizzle through the morning, but with some sunny periods also. The afternoon was mostly cloudy with a few scattered showers. The evening and night had some sunny/clear breaks. Winds were moderate to fresh, southeast to southwest.
Rainfall: Nil at numerous locations to 14.6 mm at Drummin (Tawnyard)
Temperature: Lowest max. 17.0°C at Roches Pt, Belmullet, highest max. 22.8°C at Shannon Apt. Lowest min. 10.4°C at Dundalk (Annaskeagh WW), highest min. 14.5°C at Killarney (Muckross Hse), Dooks
Sunshine: Nil at numerous locations to 13.2 hours at Dungarvan (Carriglea)

Friday 21st: A mostly dry day with some decent sunny spells. A few scattered showers became more widespread through the day, some heavy, becoming more isolated towards evening. Winds were moderate to fresh, southwesterly.
Rainfall: Nil at numerous locations to 10.3 mm at Leenane (Glanagimla)
Temperature: Lowest max. 16.2°C at Listowel (Gurtocloghane), highest max. 22.7°C at Dun Laoghaire. Lowest min. 11.2°C at Sligo Airport, highest min. 16.9°C at Dublin (Glasnevin)
Sunshine: 3.0 hours at Sherkin Island to 10.3 hours at Dungarvan (Carriglea)

Saturday 22nd: A mainly dry, cloudy start, with a few sunny breaks. Showers after, becoming widespread by afternoon, with some heavy thundery downpours. Showers cleared the West by evening as persistent rain from the East spread countrywide. Winds were light, southerly.
Rainfall: Nil at numerous locations to 85.8 mm at Curry
Temperature: Lowest max. 15.5°C at Glenealy (Kilmacurragh Park), highest max. 21.0°C at Castleconnell. Lowest min. 8.8°C at Castleconnell, highest min. 14.0°C at Newport (Furnace), Waterford (Tycor)
Sunshine: Nil at numerous locations to 10.1 hours at Sherkin Island

Sunday 23rd: Clear weather spread into the Northeast, leaving a narrowing band of rain through the middle of the country. Further pulses of heavy rain returned to north Leinster and Ulster later in the afternoon and evening. The rain died out during the evening. Winds were light to moderate, variable in direction.
Rainfall: Nil at numerous locations to 34.9 mm at Letterkenny (Dromore)
Temperature: Lowest max. 13.5°C at Knock Apt, highest max. 21.4°C at Glengarriff (Innacullin). Lowest min. 9.4°C at Valentia Obs, highest min. 13.7°C at Ashford (Cronykeery)
Sunshine: Nil at numerous locations to 11.3 hours at Sherkin Island

Monday 24th: Light, showery rain affected Munster and south Connacht overnight and into the morning, dying out by early afternoon. The rest of the day was predominantly dry. Winds were moderate to fresh, southwesterly.
Rainfall: Nil at numerous locations to 19.5 mm at Coomclogh
Temperature: Lowest max. 13.2°C at Belderrig, highest max. 19.9°C at Waterford (Tycor). Lowest min. 7.5°C at Clonroche (Knoxtown), highest min. 12.8°C at Dooks
Sunshine: 1.3 hours at Belmullet to 10.1 hours at Shannon Apt

Tuesday 25th: Rain in the Southwest during the early hours continued moving northeastwards through the morning and afternoon. The rain cleared the Northeast in the late evening but by then further heavy rain was beginning to spread into the South. Winds were light to moderate, southeasterly.
Rainfall: 1.2 mm at Glynn (Bulgan) to 45.0 mm at Bartlemy
Temperature: Lowest max. 14.2°C at Knock Apt, highest max. 19.1°C at Littleton. Lowest min. 3.6°C at Carrickmacross (Dunoge), highest min. 11.7°C at Mace Head
Sunshine: 0.3 hours at Newport (Furnace), Knock Apt to 5.3 hours at Sherkin Island

Wednesday 26th: Rain in the Midlands and East overnight, but mostly dry elsewhere. Scattered showers through the morning, with some good sunshine. Showers were widespread in the afternoon, some heavy and with thunder, but these became scattered by late evening. Winds were moderate to fresh, southwesterly.
Rainfall: Nil at numerous locations to 31.5 mm at Dungloe
Temperature: Lowest max. 15.8°C at Knock Apt, highest max. 21.5°C at Castleconnell. Lowest min. 6.9°C at Dundalk (Annaskeagh WW), highest min. 12.3°C at Sherkin Island, Ashford (Cronykeery)
Sunshine: 3.3 hours at Knock Apt to 9.5 hours at Cork Apt

Thursday 27th: Light showers along the west coast during the night became widespread and heavier after midday bringing some thundery downpours. Despite this, there were some good sunny spells in between showers. Winds were moderate to fresh, southwesterly.
Rainfall: Nil at numerous locations to 16.6 mm at Inagh (Mt Callan)
Temperature: Lowest max. 14.4°C at Belderrig, highest max. 19.7°C at Dublin (Glasnevin). Lowest min. 6.0°C at Clonroche (Knoxtown), highest min. 12.3°C at Sherkin Island
Sunshine: 5.5 hours at Ardfer (Liscahane) to 12.1 hours at Shannon Apt

Friday 28th: Scattered showers overnight became countrywide by afternoon, some heavy and with thunder. These became more isolated towards evening, bringing good sunny spells and dry periods. Winds were moderate to fresh, southwesterly.
Rainfall: Nil at numerous locations to 21.8 mm at Leenane (Glanagimla)
Temperature: Lowest max. 15.3°C at Knock Apt, highest max. 20.0°C at Dublin (Glasnevin). Lowest min. 5.5°C at Ashford (Cronykeery), highest min. 12.3°C at Mace Head
Sunshine: Nil at Casement to 12.2 hours at Sherkin Island

Saturday 29th: Some patches of mist and fog overnight. A showery day with showers feeding from the Southwest, some very heavy and thundery in the afternoon, affecting the East and North in particular. Good sunny spells but temperatures kept down by heavy showers. Winds were light to moderate, southwesterly.
Rainfall: Nil at numerous locations to 11.2 mm at Bartlemy
Temperature: Lowest max. 15.5°C at Delphi Lodge, highest max. 21.0°C at Cahore (Kilmichael Hse). Lowest min. 8.3°C at Ashford (Cronykeery), highest min. 13.6°C at Sherkin Island
Sunshine: 1.7 hours at Straide to 11.1 hours at Sherkin Island

Sunday 30th: Dry and mainly clear overnight with some mist and fog patches. For most of the day, some light showers in the western half of the country, isolated showers elsewhere. Some spells of sunshine but relatively cloudy. Showers died back to western and northwestern coasts for the evening and night. Winds were light, variable in direction.
Rainfall: Nil at numerous locations to 11.7 mm at Ballyvaughan (Ballyconry)
Temperature: Lowest max. 14.9°C at Glenties Hatchery, highest max. 19.2°C at Durrow. Lowest min. 5.2°C at Dundalk (Annaskeagh WW), highest min. 13.4°C at Mace Head
Sunshine: 0.3 hours at Knock Apt to 7.1 hours at Sherkin Island

Monday 31st: A calm night with clear spells, mist and fog patches. Showers developed in the North and Northwest during the morning becoming widespread but scattered. Some showers were very heavy and thundery, and continued throughout the day until evening. Clear spells thereafter. Winds were light, northerly.
Rainfall: Nil at numerous locations to 12.7 mm at Banteer Lyre
Temperature: Lowest max. 14.5°C at Malin Head, highest max. 20.2°C at Cloyne (Lisanley). Lowest min. 7.0°C at Ashford (Cronykeery), highest min. 12.6°C at Roches Pt
Sunshine: 0.5 hours at Dublin (Glasnevin) to 7.5 hours at Sherkin Island

ABOVE AVERAGE RAINFALL IN MOST PLACES

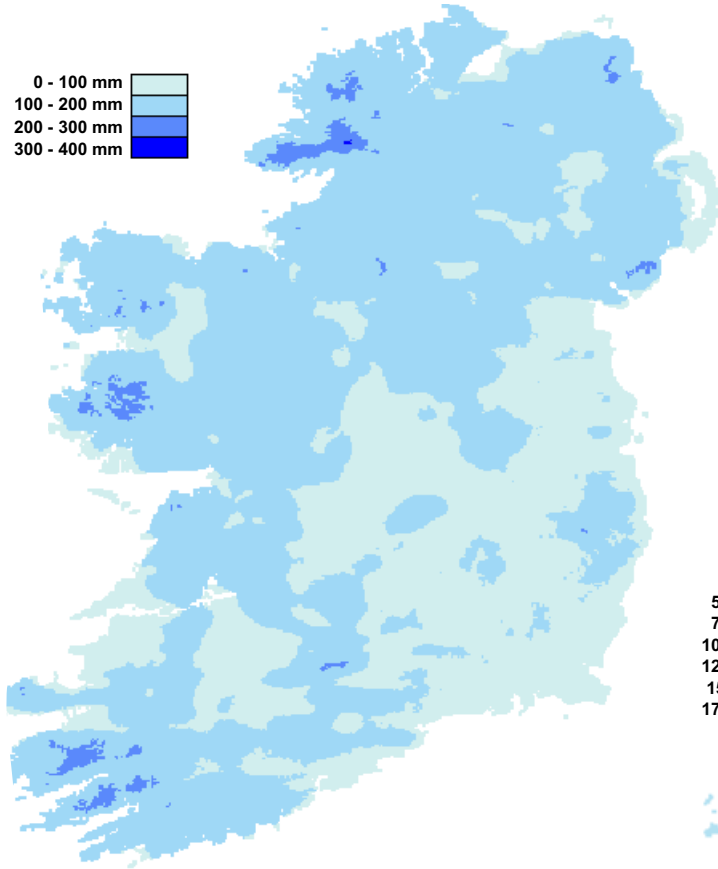
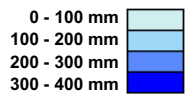
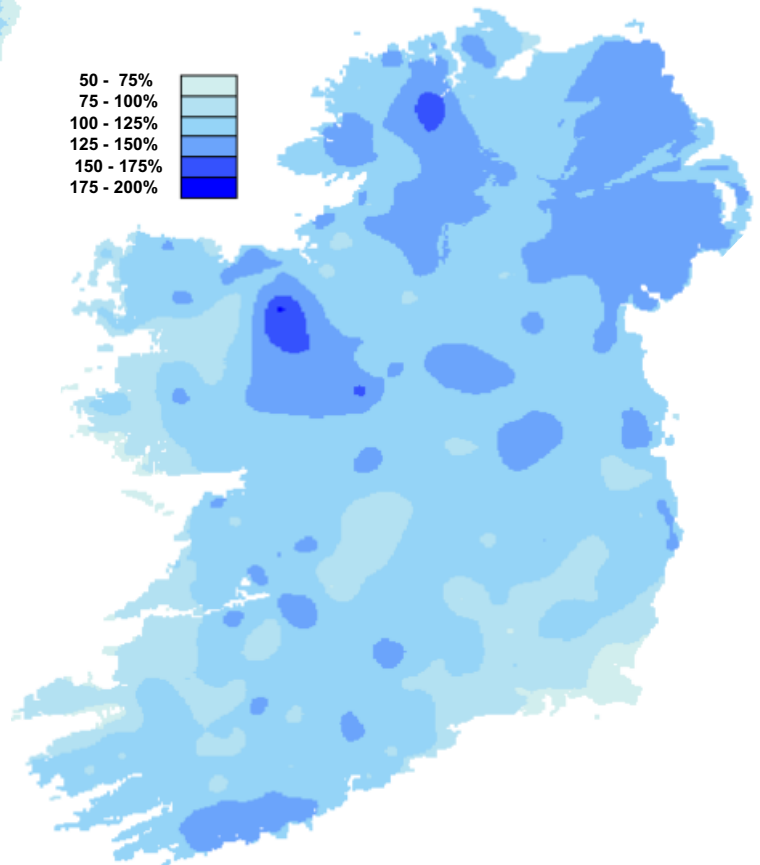
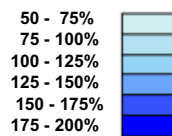
Rainfall totals were mainly above Long-Term Average (LTA) with around a quarter of stations scattered around the country reporting below LTA values. Percentage of LTA values were lowest at Inishere, Co Galway with 55% and a monthly total of 56.3 mm. The month's lowest rainfall accumulation was at Bannow, Co Wexford with 43.4 mm (65% of its LTA). A few isolated stations with below LTA values in Kerry, Wicklow and Clare reported their driest August since 2006. Percentage of LTA rainfall values were highest at Curry, Co Sligo with 179% and a monthly total of 172.3 mm, its wettest August on available record since it opened in 1997. Nearly half of this monthly total was attributed to heavy rainfall recorded across the country on the 22nd, when the station recorded 85.8 mm in the 24-hour period, the month's wettest day and its highest daily rainfall for any given month since the station opened. The longest series of long-term observations exceeded for a high monthly rainfall total was at Letterkenny (Dromore), Co Donegal reporting its wettest August since 1992 with 150.9 mm (169% of LTA), just under a quarter of this falling on the 23rd (34.9 mm), its wettest day during August since 1987. The highest monthly rainfall total in a low-lying area (region below 200m) was at Cloone Lake (Caragh River Area), Co Kerry with 226.4 mm (123% of LTA), while the overall highest accumulation was at a gauge in the Cumberagh Mountains, Co Kerry with 287.9 mm (113% of LTA).

The number of wet days (*days with 1mm or more*) ranged from eight at Dublin (Merrion Square) to 27 at Derryhenny Doochary, Co Donegal.

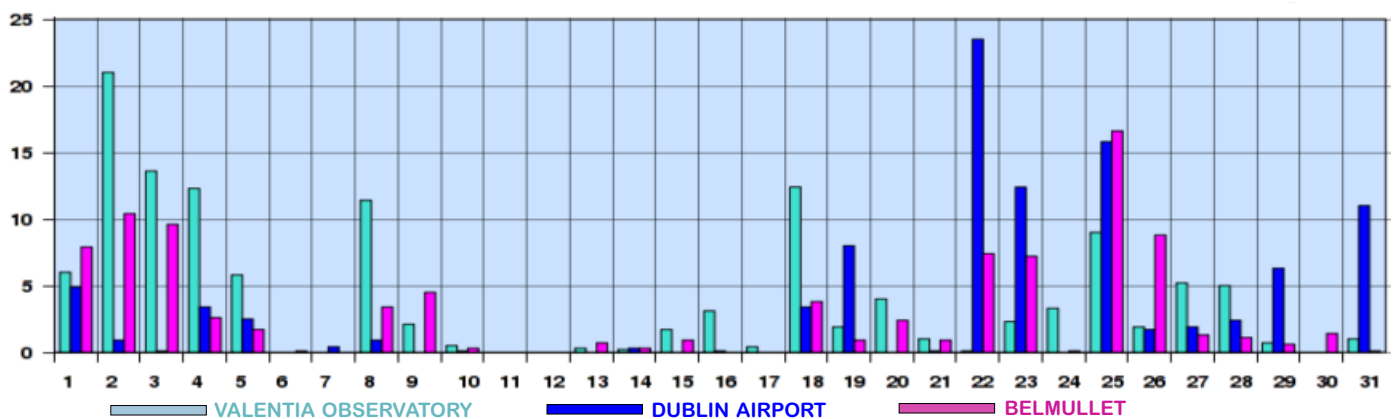
COUNTY/ STATION	TOTAL AMOUNT (mm)	% OF 1981-2010 AVERAGE	MOST IN A DAY / DATE		NUMBER OF RAINDAYS WETDAYS (≥0.2mm) (≥1mm)	
CO CARLOW						
CARLOW (OAK PARK)	83.0	115	28.4	25	18	12
CO CAVAN						
BALLYHAISE	112.0	123	24.9	22	23	19
CO CLARE						
CARRON	134.9	96	23.0	3	24	19
SHANNON AIRPORT	93.3	114	10.3	22	25	19
CO CORK						
BALLINCURRIG (PEAFIELD)	117.7	119	28.4	25	21	17
CORK AIRPORT	100.9	104	25.2	25	22	17
FERMOY (MOORE PARK)	104.0	124	32.3	25	17	15
ROCHE'S POINT	94.4	111	17.8	22	18	14
SHERKIN ISLAND	86.4	98	13.2	2	21	15
CO DONEGAL						
BALLYSHANNON (CATHLEEN'S FALL)	143.3	141	23.5	26	25	19
GLENTIES HATCHERY	164.0	131	26.8	22	26	22
MALIN HEAD	111.4	117	22.6	22	23	19
CO DUBLIN						
CASEMENT AERODROME	68.2	94	21.3	22	17	10
DUBLIN (MERRION SQUARE)	77.5	120	21.8	22	15	8
DUBLIN AIRPORT	100.1	137	23.5	22	17	13
DUBLIN (PHOENIX PARK)	95.5	131	25.3	22	20	12
CO GALWAY						
MAAM VALLEY	196.9	97	30.8	3	26	20
CO KERRY						
ARDFERT (LISCAHANE)	85.6	95	12.4	5	26	20
VALENTIA OBSERVATORY	126.2	110	21.0	2	25	20
CO KILKENNY						
THOMASTOWN	56.2	72	15.6	22	16	9
CO LIMERICK						
MOUNT RUSSELL	117.0	109	19.3	25	26	22
CO MAYO						
BELMULLET	95.0	93	16.6	25	23	16
DELPHI LODGE	173.8		27.8	3	23	21
KNOCK AIRPORT	178.5	165	56.5	22	26	23
STRAIDE	81.1	85	15.0	22	22	15
CO MEATH						
WARRENTOWN	84.6	109	26.5	25	19	13
CO MONAGHAN						
CARRICKMACROSS (DUNOGE)	88.4	109	22.5	22	20	17
CO OFFALY						
DERRYGREENAGH	104.6	126	24.4	25	19	14
CO ROSCOMMON						
MOUNTDILLON	118.5	134	20.8	25	24	20
CO SLIGO						
ARDTARMON	98.0	108	16.3	22	23	18
CO TIPPERARY						
FETHARD (PARSONSHILL)	87.1	104	31.8*	25	18*	13*
GURTEEN (AG.COLLEGE)	65.5	77	12.7*	4	21*	14*
CO WATERFORD						
DUNGARVAN (CARRIGLEA)	89.6	97	23.4	2	16	14
WATERFORD (TYCOR)	61.0	73	14.4	2 25	13	9
CO WESTMEATH						
MULLINGAR	97.1	113	22.4*	22	23*	16*
CO WEXFORD						
CLONROCHE (KNOXTOWN)	87.2		23.3	5	16	12
JOHNSTOWN CASTLE	52.1	62	11.3	5	16	12
CO WICKLOW						
ASHFORD (CRONYKEERY)	92.9	130	24.5	22	13	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)

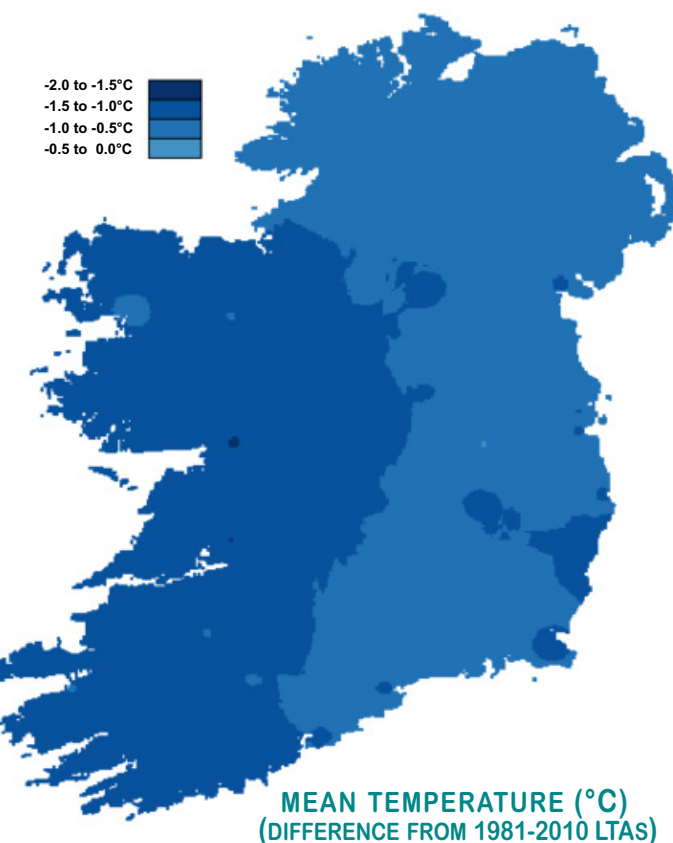
DAILY 0901-0900hr RAINFALL VALUES (mm)



COOL CONDITIONS EVERYWHERE

Monthly mean air temperatures were all below Long-Term Average (LTA). The majority of stations reported deviations from LTA of over 1°C with the highest deviations recorded in parts of the Northwest, West and Southwest. Differences from LTA were as much as -1.7°C at Athenry, Co Galway (mean temperature of 13.7°C) while stations at Derrygreenagh, Co Offaly and Ardee (Boharnamoe), Co Louth were the nearest to their average with just -0.5°C from LTA with mean temperatures of 14.5°C and 14.7°C , respectively. Mean air temperatures ranged from 12.9°C (-0.9°C from LTA) at Knock Airport, Co Mayo, its coolest August since the station opened in 1996 to 15.6°C (-0.7°C from LTA) at Dublin (Glasnevin). Nearly half of stations reported the same or cooler conditions in August 2014, with most of the other half reporting cooler in 2011. Valentia Observatory, Co Kerry reported the longest long-term record exceeded with a mean air temperature of 14.0°C (-1.4°C from LTA), its coolest August since 1986.

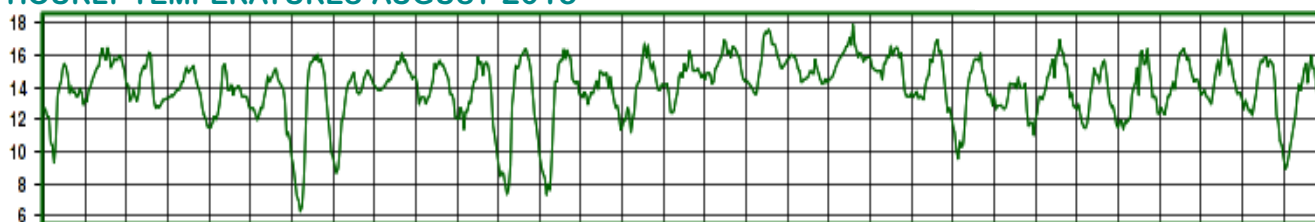
The majority of highest maxima were reported on the 13th or between the 16th and 20th. The month's lowest maxima was 18.1°C at Sherkin Island, Co Cork (on the 23rd and 31st), equalling its lowest recorded during August since 1985. The month's highest maximum of 24.6°C was at Wexford Wildfowl Reserve (on the 19th), its highest August maximum



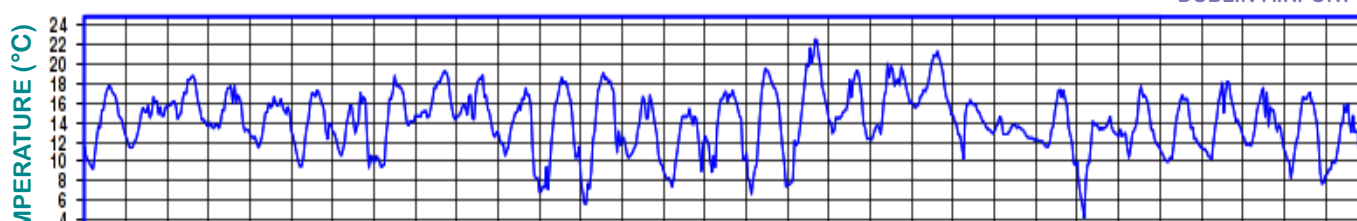
since 2003 and the second highest since the site opened 1992. The month's lowest air temperature was 2.8°C reported at Castleconnell, Co Limerick on the 8th while the month's lowest grass minimum was -1.9°C at Ashford (Cronykeery), Co Wicklow on the 25th, its lowest grass minimum since the station opened in 2002.

HOURLY TEMPERATURES AUGUST 2015

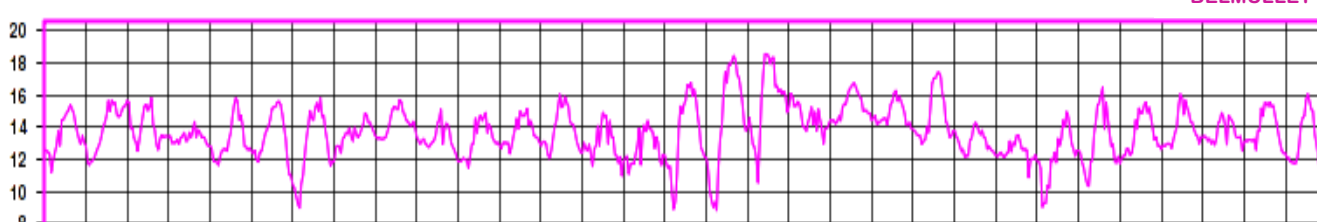
VALENTIA OBSERVATORY



DUBLIN AIRPORT



BELMULLET



DAY OF MONTH

COUNTY/ STATION	MEAN MAX.	MEAN MIN.	DIFFERENCE FROM 1981-2010		HIGHEST MAX./DATE	LOWEST MIN./DATE	LOWEST GRASS MIN./DATE		DAYS WITH FROST	
			MEAN	AVERAGE					AIR	GROUND
CO CARLOW										
CARLOW (OAK PARK)	19.1	10.4	14.8	-1.0	23.0 13	6.0 15	-0.8 15		0	1
CO CAVAN										
BALLYHAISE	17.6	10.4	14.0	-1.2	21.5 18	5.2 13	3.5 8		0	0
CO CLARE										
CARRON	16.6	10.2	13.4	-1.2	19.3 18	7.1 1	3.9 1		0	0
SHANNON AIRPORT	18.0	11.4	14.7	-1.5	22.8 20	6.7 12	5.5 12		0	0
CO CORK										
BALLINCURRIG (PEAFIELD)	17.9	10.7	14.3	-0.6	21.6 12	6.7 8	6.1 15		0	0
CORK AIRPORT	17.2	10.6	13.9	-1.3	20.9 13	7.4 27	2.0 8		0	0
FERMOY (MOORE PARK)	18.2	10.5	14.4	-1.0	20.8 12	5.2 8	3.7 15		0	0
ROCHE'S POINT	17.0	12.1	14.5	-1.0	21.1 13	9.4 8	4.7 8		0	0
SHERKIN ISLAND	16.4	12.3	14.4	-1.3	18.1 23,31	10.1 31	5.1 31		0	0
CO DONEGAL										
BALLYSHANNON (CATHLEEN'S FALL)	17.0	11.4	14.2	-0.8	21.3 18	7.6 7			0	
GLENTIES HATCHERY	17.0	10.5	13.8	-0.7	21.7 18	4.5 7	0.9 7		0	0
MALIN HEAD	16.8	11.1	14.0	-0.7	20.7 20	8.1 7	2.2 7		0	0
CO DUBLIN										
CASEMENT AERODROME	18.8	10.3	14.5	-0.9	23.2 18	5.4 12	0.9 25		0	0
DUBLIN (MERRION SQUARE)	18.5	11.5	15.0	-1.4	22.6 18	7.1 12			0	
DUBLIN AIRPORT	18.3	10.0	14.1	-1.2	23.3 18	3.8 25	-0.7 25		0	1
DUBLIN (PHOENIX PARK)	19.0	10.3	14.7	-0.8	24.2 18	5.3 25	0.5 25		0	0
CO GALWAY										
MAAM VALLEY	17.3	10.9	14.1	-1.0	19.5 16	6.1 7	4.0 7		0	0
CO KERRY										
ARDFERT (LISCAHANE)	17.9	11.0	14.5	-1.0	20.7 18	6.4 13	5.7 13		0	0
VALENTIA OBSERVATORY	16.5	11.5	14.0	-1.4	18.3 18	6.3 7	2.5 7		0	0
CO LIMERICK										
MOUNTRUSSELL	17.4	10.6	14.0	-1.0	19.4 13,20	7.9 8	4.1 15		0	0
CO MAYO										
BELMULLET	16.1	11.5	13.8	-1.2	19.1 18	8.2 25	5.0 25		0	0
DELPHI LODGE	16.4	10.9	13.7	-1.5	19.4 18	6.0 7	0.0 7		0	0
KNOCK AIRPORT	15.9	9.8	12.9	-0.9	19.4 18	6.9 25	2.9 13		0	0
STRAIDE	17.6	10.1	13.9	-1.0	20.8 18	3.2 7	-1.5 7		0	1
CO MEATH										
WARRENTOWN	19.1	10.2	14.7	-0.6	23.0 18	4.8 25	2.6 25		0	0
CO MONAGHAN										
CARRICKMACROSS (DUNOGE)	18.6	9.7	14.1	-1.0	22.3 17	3.6 25			0	
CO OFFALY										
DERRYGREENAGH	18.9	10.1	14.5	-0.5	23.2 18	5.8 16	4.1 16		0	0
CO ROSCOMMON										
MOUNTDILLON	17.9	9.9	13.9	-1.2	21.8 18	3.5 13	0.9 25		0	0
CO SLIGO										
ARDTARMON	17.8	11.1	14.5	-0.9	22.5 18	6.1 7	-0.4 7		0	1
CO TIPPERARY										
FETHARD (PARSONSHILL)	18.2	10.4	14.3	-0.6	21.7 13	7.3 15	6.0 27		0	0
GURTEEN (AG.COLLEGE)	18.3	10.0	14.1	-1.2	22.8 20	5.3 13	1.3 12		0	0
CO WATERFORD										
DUNGARVAN (CARRIGLEA)	18.7	10.8	14.8	-1.1	21.8 19	6.0 8	2.5 8		0	0
WATERFORD (TYCOR)	19.0	11.7	15.4	-0.6	22.1 12	8.9 15			0	
CO WESTMEATH										
MULLINGAR	18.1	9.3	13.7	-1.2	22.2 18	4.0 16	0.5 8,16		0	0
CO WEXFORD										
CLONROCHE (KNOXTOWN)	18.3	9.7	14.0	-0.9	23.0 13	4.3 12	2.1 8		0	0
JOHNSTOWN CASTLE	17.2	11.4	14.3	-1.2	20.5 13	7.2 15	3.5 15		0	0
CO WICKLOW										
ASHFORD (CRONYKEERY)	18.8	10.0	14.4	-1.1	22.2 18	4.4 25	-1.9 25		0	2

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

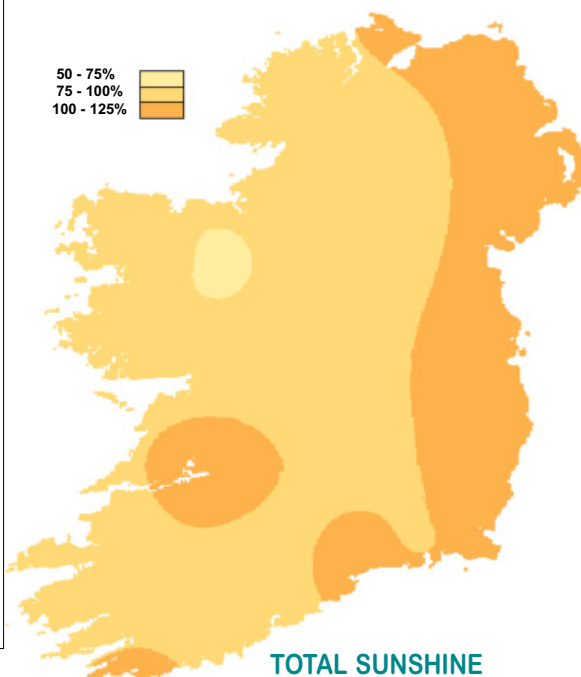
COUNTY/ STATION	DAILY MEAN (HOURS/DAY)	% OF 1981-2010 LTA	DULL DAYS (<0.5 HRS)	MOST IN A DAY/DATE	
CO CLARE					
SHANNON AIRPORT	5.25	115	3	12.1	27
CO CORK					
BALLINCURRIG (PEAFIELD)	4.35	79	6	10.6	12
CORK AIRPORT	5.03	96	5	14.1	12
SHERKIN ISLAND	5.89	103	6	12.2	28
CO DONEGAL					
BALLYSHANNON (CATHLEEN'S FALL)	3.21	78	6	10.8	18
CO DUBLIN					
CASEMENT AERODROME	4.82	99	4	13.4	12
DUBLIN (GLASNEVIN)	5.38	106	2	11.8	18
DUBLIN AIRPORT	5.10	100	3	12.7	12
CO KERRY					
ARDFERT (LISCAHANE)	3.90	82	3	11.4	7
VALENTIA OBSERVATORY*	4.19		6	13.5	7
CO MAYO					
BELMULLET*	3.69		6	8.9	6
KNOCK AIRPORT	2.44	61	6	8.2	24
NEWPORT (FURNACE)	3.68	94	7	11.1	7
STRAIDE	3.55	83	5	10.4	13
CO WATERFORD					
DUNGARVAN (CARRIGLEA)	5.96	111	3	13.2	20
CO WEXFORD					
CLONROCHE (KNOXTOWN)	5.42	100	2	12.8	18
JFK PARK	5.08	99	2	12.0	18
WEXFORD WILDFOWL RESERVE	5.11	94	3	13.2	12
CO WICKLOW					
ARKLOW (BALLYRICHARD HSE)	5.95		3	13.5	12
ASHFORD (CRONYKEERY)	5.19	101	3	13.0	12

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

VARIABLE PERCENTAGE OF LTA; LOWEST IN THE WEST, HIGHEST IN THE SOUTHWEST

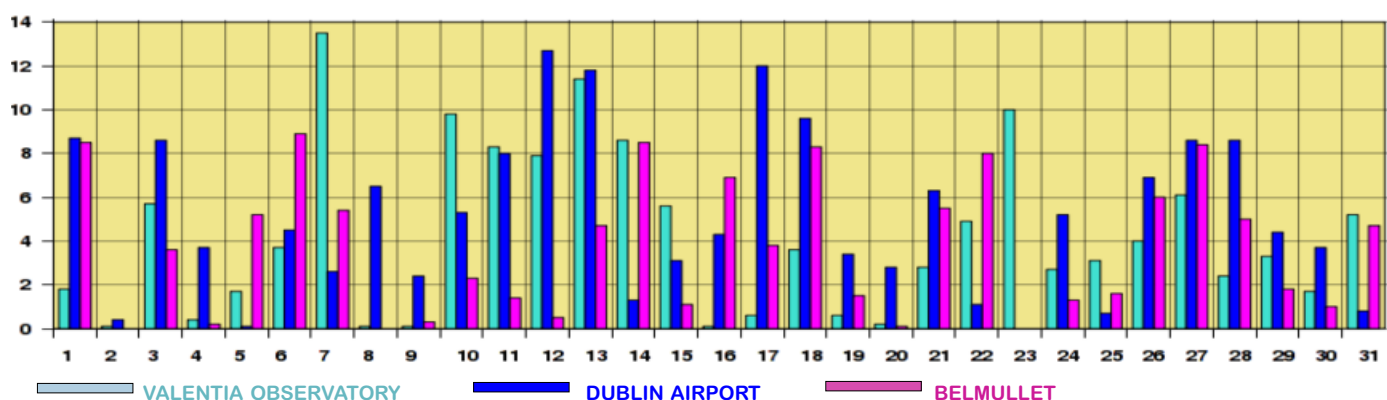
Percentage of Long-Term Average (LTA) sunshine values were variable across the country. Percentage of LTAs ranged from 61% at Knock Airport, Co Mayo (lowest monthly sunshine total of 75.5 hours, its dullest August in 7 years) to 115% at Shannon Airport, Co Clare (monthly sunshine of 162.9 hours). The highest monthly sunshine was 184.7 hours at Dungarvan (Carriglea), Co Waterford which equated to 111% of its LTA. The month's sunniest day was at Cork Airport on the 12th with 14.1 hours, its sunniest August day in nine years. The number of monthly dull days (*days with less than 0.5 hours of sunshine*) were up to seven at Newport (Furnace), Co Mayo.

Percentage of global solar radiation LTA values were near or above average ranging from 99% at Valentia Observatory, Co Kerry to 105% at Dublin Airport.

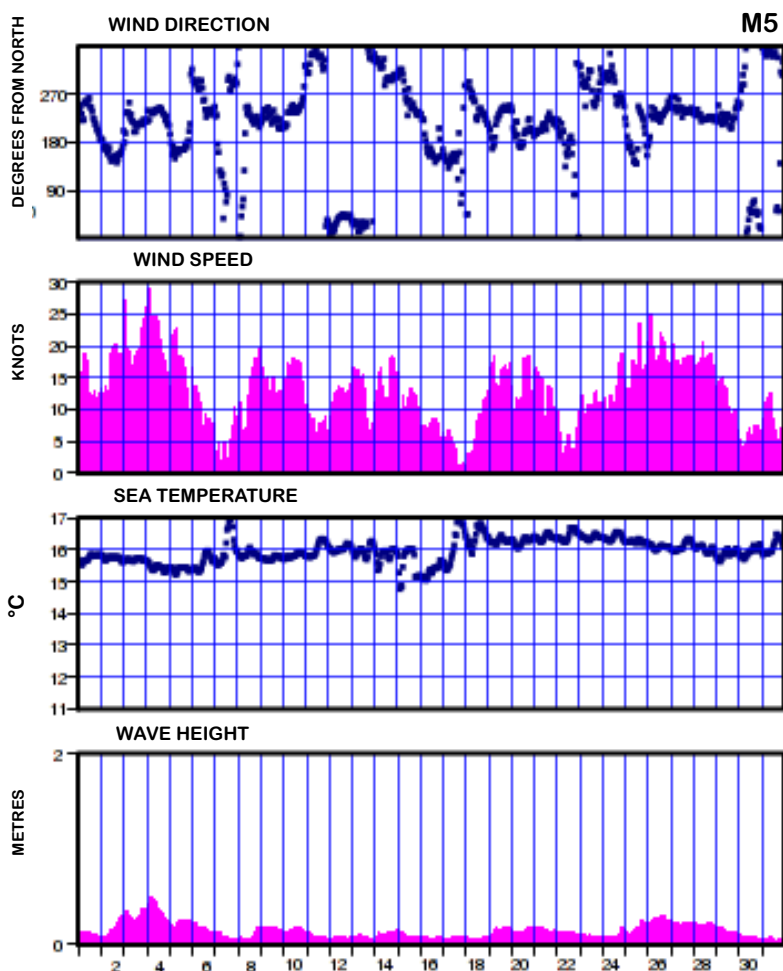


TOTAL SUNSHINE
(PERCENTAGE OF 1981-2010 NORMALS)

DAILY SUNSHINE VALUES (HOURS)



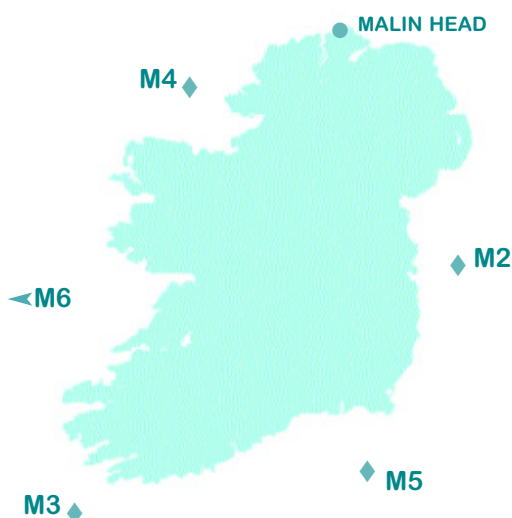
MARINE OBSERVATIONS FROM IRISH MARINE DATA BUOY NETWORK



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

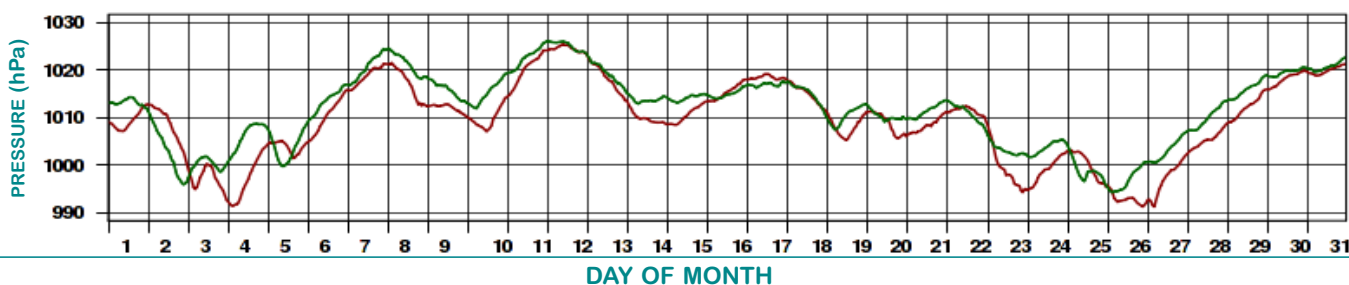
BUOY	SEA SURFACE TEMP. (°C)	MEAN WIND SPEED (knots)	MAX 10-MIN WIND (knots)	MEAN SIGNIFICANT WAVE HEIGHT (m)	MAX SIGNIFICANT WAVE HEIGHT (m)
M2	13.4	10.8	27.9	0.8	2.6
M3	n/a	12.0	28.3	2.3	7.8
M4	13.6	14.0	35.0	n/a	n/a
M5	16.0	12.1	29.0	1.4	5.0
M6	13.9	15.5	39.0	2.4	5.9
MALIN HEAD	14.4	* PARTIAL DATA			

SUMMARY OF MEAN MONTHLY VALUES



HOURLY MEAN SEA LEVEL PRESSURE AUGUST 2015

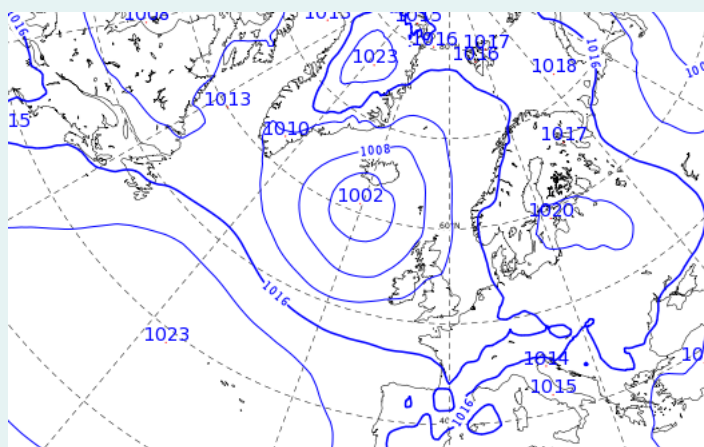
MALIN HEAD VALENTIA OBSERVATORY



ATMOSPHERIC PRESSURE

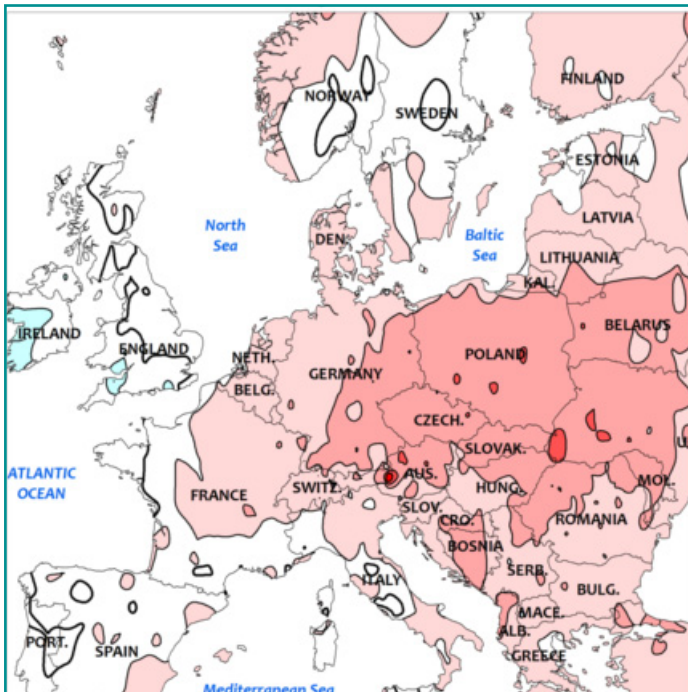
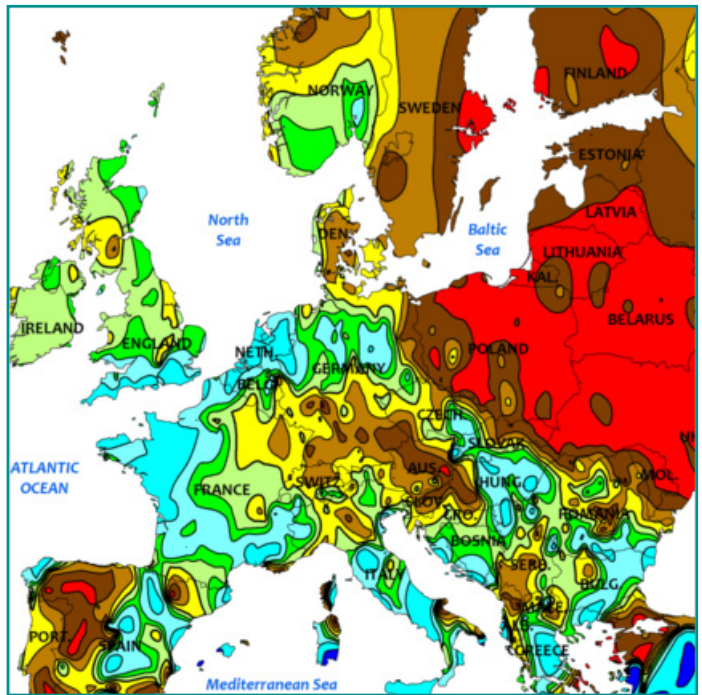
Monthly mean sea level pressure values ranged from just below 1010 hPa in the West to just above 1013 hPa in the South and Southeast. The month's lowest pressure value of 988.2 hPa was recorded at Belmullet, Co Mayo on the 3rd between 1800 and 1900 UTC as a depression of 976 hPa was located off the northwest coast.

The month's highest pressure value was 1026.5 hPa recorded at Shannon Airport, Co Clare on the 12th between 0900 UTC and 1000 UTC as a anticyclone of 1027 hPa was located over Ireland and the United Kingdom.

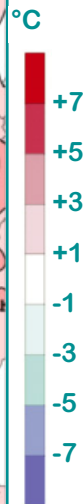


MONTHLY MEAN MSL PRESSURE, BASED ON 1200 UTC VALUES

AUGUST RAINFALL (PERCENTAGE OF 1961-1990 NORMAL)



AUGUST 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

Between August 2nd to 4th, several consecutive days of severe weather impacted portions of the central Plains, Midwest and Northeast of the US, resulting in the deaths of at least four people. Most of the major damage occurred from thunderstorms which brought winds gusts of over 51 knots (95 km/h) and up to grapefruit-sized hail. Isolated tornado touchdowns occurred as well.

Tropical Storm Erika tracked through the Caribbean Sea between the 24th and 28th, bringing excessive rains and periods of gusty winds to many islands. The most extensive impacts were on the island of Dominica, where the weather station at the national airport recorded 321 mm during the storm's passage (12 hours). This caused major flash flooding and resulted in the deaths of 31 people.

Super Typhoon Soudelor made landfalls in Taiwan and China and was active between July 29th and August 11th. Soudelor became the second strongest typhoon ever after maximum wind speeds reached 157 knots (290 km/hr) and rainfall in Taiwan over a four day period reaching between 600 and 800 mm. The storm resulted in the loss of more than 41 lives.

Heatwave conditions were reported throughout portions of central and southern Europe and the Middle East in August. This was the second major heatwave to affect Europe in the summer of 2015 as previously there were record-breaking July temperatures and hours of sunshine. Germany reported its highest temperature on record with 40.3°C on July 5th and August 7th.

An East Coast Low brought periods of torrential rainfall, gusty winds, hail and an isolated tornado to Australia's New South Wales on August 25th and 26th. The regions of Illawarra and South Coast had hail up to 3cm and flash flooding as thunderstorms affected the regions.