# Weather of February 1988



Meteorological Service

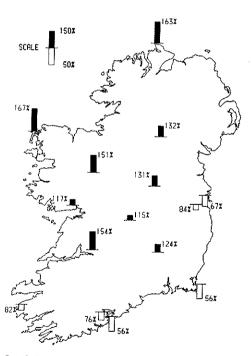
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	Ж	Rainfall	!		PCC.	ir Te	Air Temperature	ture			Sur	Sunshine		Wind	N	Number of days with	of o	lays	with	_
Station		Most in a	n a Day	Means	, o (		Extr	Extreme Tem	Temperature			Most in	a Day	× × ×	Snow	Air Fros	Hail	Thun	Fog	Gale Gust
	lotal a	Amount	Date(s)	Мах	Min	Mean	Highest Date(s)	Date(s)	Lowest Date(s		lotat	Amount Date(s	late(s)	Gust		t		der		s
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Cork Airport	8.3	80.3 15.8	<b>~~~</b>	7.9	2.2	5.1	10.0	18,28	8.0-	13	80.8	8.7	16	8	1	<u></u>	7	'	7	ਨ
Dublin Airport	34.3	8.3	ਨ	7.9	2.4	5.2	11.3	7	-1.0	12	8. 8.	8.9	24	22	19	<u></u>	₹	<u> </u>	· · · · · · · · · · · · · · · · · · ·	r~-
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Malin Head	122.	22.5 19.4	တ	ω. Ο.	3.4	5.7	11.4	ក្	0.3	91	47.9	4.5	23	<u>~</u>	77	<del>00</del>		- ~	1	23
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NOTES: Rainfall in millimetres, Temperatures in Degrees Celsius, Sunshine in Hours and Wind in Nots. Gale Gust	millimet	tres, Ten	nperature	s in Deg	rees Cel	sius, S	unshine	in Hours	and Wir	nd in Km	ots. Cal	e Gust .	- Gust of	Gust of > 33.5 knots	knots.	* *	ays wi	days with 0.2mm	or	nore

# Major Storms on 1st and 9th Cause Considerable Damage

The first half of the month was wet and windy. Westerly winds were dominant and on 1st and 9th major storms passed close by the northwest of the country, causing record low pressures. Both storms wreaked havoc over the country, bringing down telephone and power lines and causing widespread disruption of road, rail, air and sea transport. During the second half of the month high pressure dominated to weather charts in the region of Ireland. The centre of the anti-cyclone was mostly out to the west in the Atlantic but between 19th and 21st the centre was quite close to the country. As winds were mostly from the northwest or north and amounts of precipitation were small we got improved drying which was much needed after the wet January.



Rainfall percentage of (1951-1980) normals

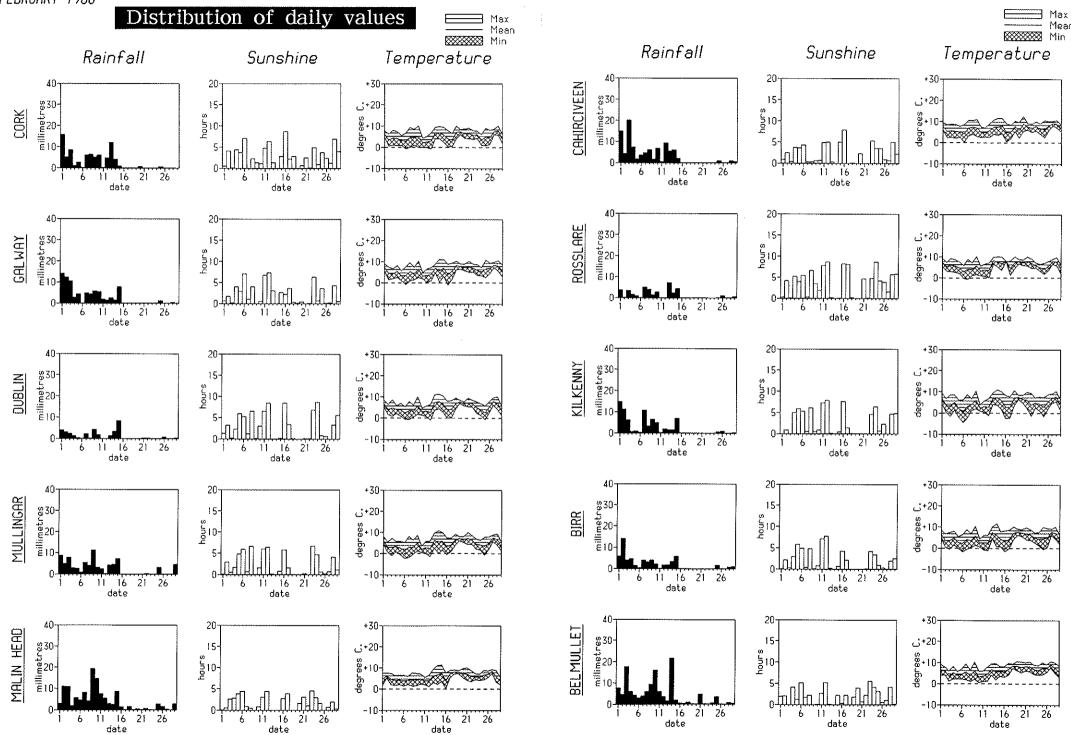
### WINDSTORMS

In both cases a major Atlantic depression passed close by the northwest of the country. On 1st the centre of low pressure passed very near Belmullet and pressure there fell to 949.1 hectopascals (millibars). All but some southern areas could be said to have escaped lightly with maximum gusts of between 40 and 60 knots. However, along the whole south coast gusts of between 75 and 83 knots were recorded and Cork Airport had twelve successive hours with mean windspeed of at least gale force (34 to 40 knots) and two hours with storm force winds (48 to 55 knots). This resulted in over 40,000 homes in southern counties being without electricity as falling trees brought down power lines.

On 9th (see front page on which the storm centre is to the north of Ireland) the central pressure of the storm was lower than on 1st but the centre did not pass quite so close to any of our stations and the lowest pressure recorded was 953.5 hectopascals at Malin Head, the lowest February pressure there in over thirty years of record. Destructive winds affected the whole country. The west and northwest were worst affected but near southern coasts the storm of 1st was the more severe. Many areas had 20 to 24 hours with mean winds of at least gale force and Belmullet had eight hours with storm force winds. Maximum gusts ranged from 69 to 85 knots generally; Rosslare registered only 61 knots but Belmullet recorded 93 knots (107 mph), its highest gust since January 1957.

The windstorm of 9th bears comparison with the

(Continued on back page)



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Wind	× S	Gust	93	74	11	82	35	7	8	2	83	72	∞	7	83	9/	
به	a Day	Date(s)	9 Dec	12 Feb	16 Feb	24 Feb	12 Feb	13 Jan 11 Feb	16 Feb	24 Feb	12 Feb	12 Feb	1 Dec	23 Feb	6 Feb	12 Feb 24 Feb	-
Sunshine	Most in	Amount	6.7	7.7	7.9	<u>~</u>	<del>ن</del> ئ	5.8	œ ~	8. 0.	7.3	7.9	6.4	2'9	7.5	9.	
25	1242	0.01	134.5	136.5	135.2	166.6	122.8	130.7	167.5	184.4	145.7	167.6	125.2	164.4	169.7	214.2	300.0 22.3 16 Jan 9.1 3.7 6.4 14.2 28 Dec -2.9 9 Dec 142.3 8.5 16 Feb 78 62 10 5 20 2 3
		Date(s)	10 Dec	10 Dec	6 Feb	10 Dec	9 Dec 10 Dec	10 Dec	12 Feb	10 Dec	9 Dec	9 Dec	10 Dec	9 Dec	6 Feb	7 Feb	
	mperatu	Lowest	-2.6	-6.5	0.2	اري - ا	-5.5	-7.1	6.8	÷	-4.0	-4.8	-2.4	-5.6	9.0	-0.7	
ture	Extreme Temperature	Date(s)	28 Dec	28 Dec	17 Dec	17 Dec	28 Dec	17 Dec	- Jan	17 Dec	28 Dec	17 Dec	28 Dec	28 Dec	1 Jan	28 Dec	
Temperature	Ě	Highest	12.6	3.9	13.6	14.0	3.1	13.2	12.6	14.2	13.4	14.0	13.6	13.0	3.3	12.5	
Air Te	200		6.2	5.7	7.5	5.7	5.2	4.9	5.	6.2	6.1	5.6	6.2	5.0	7.1	7.0	-
~	s of	Min	3.9	2.8	5.0	3.0	2.4	2.2	3.8	က	3.5	2.6	က တ	2.2	5.0	9.4	
	Means	Max	8.5	8.5	10.0	8.3	7.9	7.5	8.4	8.6	8.6	8 9	4.8	7.8	9.2	9.0	300.8 22.3 18 Jan 9.1 3.7 6.4 14.2 28 Dec -2.9 9 Dec 142.3 8.5 16 Feb 78 62 10 5 20 2 3
p	a Day	Date(s)	12 Jan	4 Jan	18 Jan	15 Feb	18 Jan	23 Jan	18 Jan	6 Jan	18 Jan	18 Jan	19 Jan	18 Jan	18 Jan	18 Jan	
Rainfall	Most in a	Amount Dat	436.4 25.0 12	230.6 15.8	558.2 45.6 18	176.6 12.8 15	426.1 24.5   18	300.1 23.4 23	521.5 45.5 18	19.0	368.2 26.3 18	271.6 21.1 118	351.8 25.3 19	273.1 24.1 18	389.3 32.8 18	22.3	
Ra	Total	יטימי	436.4	230.6	558.2	176.6	426.1	300.1	521.5	192.1	368.2	271.6	351.8	273.1	389.3	307.8	irport 326.8 18.8 1 Jan 9.1 3.7 6.4 14.2 28 Dec -2.9 9 Dec 142.3 8.5 16 Feb 78 62 10 5 20 2 3
	Station		Belmullet	Birr	Cahirciveen	Casement	Claremorris	Clones	Cork Airport	Dublin Airport	Galway	Kilkenny	Malin Head	Mullingar	Roche's Point	Rosslare	

(Continued from Page 3)

the storms of February 1957, January 1974 and even 'Hurricane Debbie' of September 1961. Four people were killed and over a dozen injured as the storm swept over the country. Trees were down everywhere, roofs blown off and over 80,000 homes were without power during the day.

Records for February were broken at quite a number, but not all our stations. The only full-period record broken was at Galway where the 83-knot gust was the highest since the station opened in 1978. The lengthy duration of gale force winds was the most singular feature of this storm. On 28th and 29th in a fresh northerly airflow winds gusted from 35 to 50 knots over the country with gusts of up to 62 knots at Malin Head.

#### PRECIPITATION

In south Munster and east Leinster rainfall was below normal but elsewhere it was above normal. Amounts ranged from 127mm at Belmullet (167% of normal) to 39mm at Rosslare (56% of normal). The bulk of the rain fell in the first two weeks, when wettest spells were 1st to 3rd, 7th to 10th and 13th to 15th and showers of hail, sleet and snow were widely reported.

During the second half of the month drying conditions improved considerably as amounts of rain were small especially between 16th and 24th. With the centre of high pressure retreating slowly westwards troughs occasionally came down from the north between 25th and 29th but amounts of precipitation remained small. Showers of hail and sleet were reported especially in the north and west. Malin Head and Shannon Airport had their highest February totals for 11 years but Beimullet had its wettest February for 18 years.

### AIR TEMPERATURE

Mean maximum air temperatures ranged from 0.1°C to 0.6°C above normal. Mean minimum air temperatures were below normal in south Munster and south Leinster but were above normal elsewhere. Air frost was recorded on 3rd between 5th and 8th, 10th and 12th and from 14th, 16th and 25th.

#### SUNSHINE

Totals ranged from 104 hours at Rosslare (131% of normal) to 48 hours (73% of normal) at Malin Head. Near the south and east coasts it was the sunniest February for 13 to 18 years.

### **WINTER OF 1987/88**

December: Cold Start Becoming Mild

January: Wet and Mild

February: Wet and Stormy at First

n all but parts of the east rainfall was above normal. In the west it was the wettest winter for 14 years while near the south coast it was the wettest for 6 to 9 years and at some stations over 130% of normal rainfall was recorded. In parts of the east rainfall was below normal with Casement Aerodrome having only 91% of its normal total.

Mean maximum air temperatures were between 0.4°C and 0.9°C above normal in most areas while mean minimum air temperatures ranged from 0.5°C to 0.9°C above normal. In the east and parts of the southeast it was the mildest winter since 1975/76. However, at Belmullet mean air temperatures were just above normal.

Sunshine totals ranged from 214 hours at Rosslare to 123 hours at Claremorris representing percentages of normal varying from less then 80% at Birr and Claremorris to over 108% at Rosslare which had its sunniest winter for 18 years. Near the south and east coasts the highest winter sunshine totals for 6 to 9 years were recorded.

There was a notable windstorm on February 9th but there were no major snowfalls during the winter. Lowest temperatures were recorded during the cold spell of early December when -7.1°C was recorded at Clones.