

Met Éireann's Data Rescue Collaborations and Archives

Mary Curley













The archive holds

- Catalogued handwritten records back to 1834 (Phoenix Park)
- Copies of diaries held by other archives dating back to 1734
- In 2019 approximately 150 previously undocumented manuscripts were found at a number of locations
- Further data has been found in recent years;
 - Army medical records
 - Agricultural statistics of the weather









ROYAL INGINEERS. METEOROLOGICAL OBSERVATORY AT O. S. Dablin for april 1869 Longitud 6-21-6-35 West Height above the Sea 15 & Pre - varya vale

No. 1. Day Observations

Latitude 58-21-44-65 /

Observations taken at 9.30 A.M. (Local Time) Observations taken at 9.30 A.M. (Local Time) Barometer No. Hygrometer Wind Cloud Self-Registering Thermometers Rain in previous Corrected 24 hours for Index Dry Bulb Correct- Temp. Wet Bulb Parometer Attached error, d readed read- of Dew- Elastic Humi-Thermo-Capillary acing for lbs. per Direction point Force of dity ing for Therm. Therm. Max. in Reading meter tion, and to Index equare Index com-Vapour 0-1 Min. on Max. in Min. in No. No. Max. Sun's Mean temperature Error foot Error puted Grass Wet Wet above rays of 32°. in Air Wet No. No. No. 3300 Ground 2 57.457.549.4353 873.4.1. 10.2540cm. 7/1337.260.340.050.156.939.841/ Then has been a great many cases of Catarril des the month, also a few Cases of ferer and formlatin

The Swallows was seen, and Cornerable heard on

78 50 22.8 2633 15 54 7644 1068.77

Observations made by Devleant

60

Ozone

Commanding Royal Engineers.

Inspector General of Fortifications

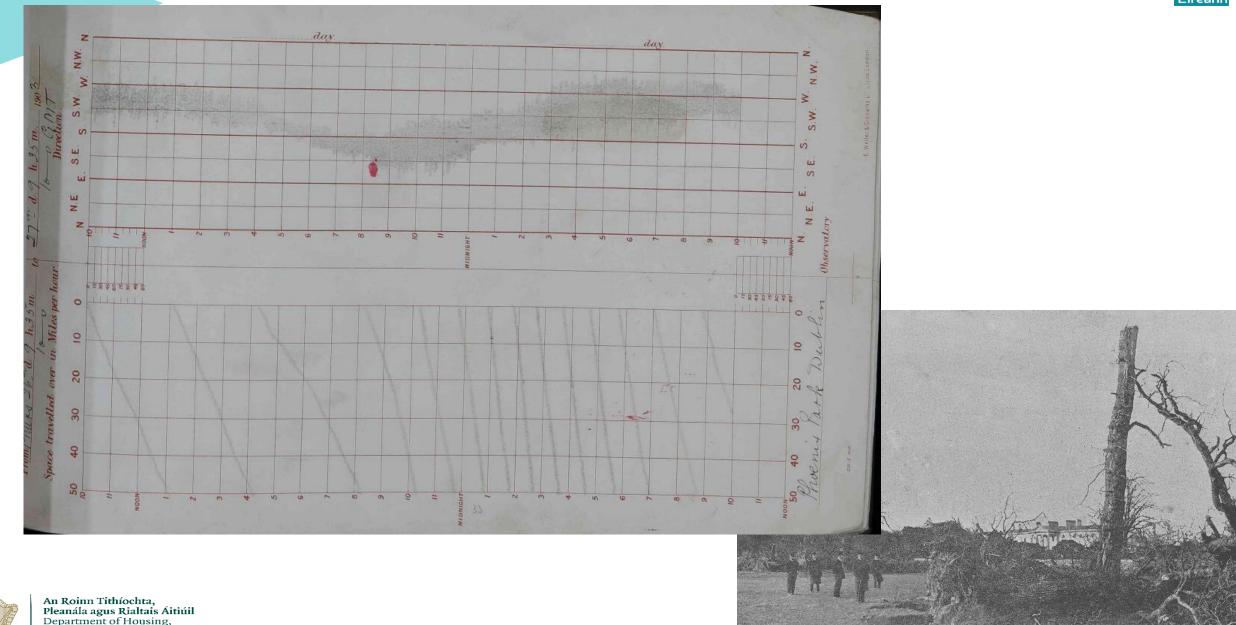
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An Roinn Tithíochta, Pleanála agus Rialtais Áitiúil Department of Housing, Planning and Local Governmen FAT 6000 4-61



Storm Ulysses February 1903







No. 21. TABULATED HOURLY VALUES OF THE ANEMOGRAPH at Phonix Park, Bublin for February 1903.



No. 9

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HOURS.	-	Velocity		Direction,	-	Velocity	•	Direction.		Velocity		Direction.		Velocity.		Direction.		Velocity.		Direction,		Velocity.		Direction,		Velocity		Direction.	
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Means			-					The sell			-				100														Means



An Roinn Tithíochta, Pleanála agus Rialtais Áiti Department of Housing, Planning and Local Goverr

Note.—The causes of all omissions of the hourly values to be stated on the "Remark" lines below. First and second columns of each day to be left blank when the hourly velocity exceeds 10 miles. The daily sums of the uncorrected velocities to be given.



Meteorological Observations at Markree Catle County My

Month July

1922: Standard of Time in Remarks Column is

Hours of Observation I. = 9 h. m. Greenwich Time, i.e., 10 h. m. by the Clock.

II. = 2 h. m. , i.e., 12 h. m. , ...

From the 10 to to 16 " Jould not take any reading of the 21 h owing to the danger of being under five The Marc & Min was red the following morning at the 9"

Section	14	for the	e entry	of Daily	Observ	ations.9	10873	SE.—BRI			FOR	OFFICE	IAL USE.
Form 10	700	AIR	MINIST	RY.—MI	ETEORO	LOGICAI	OFFIC	E.—BRI	TISH R			ANIZATIO	ON.
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rieigh.	- 1000			Level		in.							
	THE M	IORNIN	G MEAS	UREME	NT IS	CREDIT	ED TO	THE P	REVIOL	S DAY		Jan. 1	, following.
An obs	server who n the spa	does not ce on the	right of	to this rul this parag	e should :	insert the	reading n	nade on Ja	nuary 1s	t of the fo	ollowing		
			ase read	the Not	es and l	Instruction	ons Over	rleaf.					
Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date
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12	.25	.49	-1/	.03	.//	.01	.03	-	-	-26	-01	-	12
13	-	-	.03		-22	.28	-28	-	-11	-	124	-2	13
14	.12	.27	-	.10	-06	.24	.07	•33	.04	-	-	-	14
15	.03	-3/	-	-	-	.28	.02	.38	-	-	-	.01	15
16	.12	.23	-	.30	-	.02	-18	.54	.24	-	-11	_	16
17	.05	.01		-	-	.08	-12	.65	-	-	168	-	17
18	-15	.06	.01	.06	-	.63	.09	-	-	-	.02	-	18
19	.33	.04	.20	-	-	.01	.05	.80	-	-	.06	-	
20	.02	.23	.03	-	-	.09	.07	-	-	-	10	_	19
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22	-28	.06	7	-09	35	.03	.05	-	_	-	.40	25	22
23	./3	.06	_	.27	-09	-	.14	_			.07	-	23
24	•2/	.37		.05	-	.01	.03			_	.50	1/2	24
25	.09	-		~	.25		-11					1/3	25
26	.19	-11	.08					-			.15		26
27		-19			32		.23	-		2	.09	./0	27
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Date	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Date					
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3	-	.07	-	-	-	.08	.02		.14	.01	.26	.02	3					
4	.83		-//	.32	.03	_	-	-	.02	.06	.04	-	4					
5	-	. 18	.14	-54	-	.70	.15	-	-	.06	158	.31	5					
6	_	-01	-	.01	.23	./5	.//	-	-	.25	-	.02	6					
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9	.02	.34	-	-	160	28	-	.27	-	.16	-30	.01	8					
10	.02	.21	_	-	.19	.21	.01	.06	-	.06	.08	_	9					
11	.25	26	_	.30	-	-18	.42	.04	.60		.24	-						
12	.25	.49	-1/	.03	-//	.01	.03	-	-	-26	-01	-	11					
	-	-	.03		-22	-28	-28	-	-11	-	•24	-	12					
13	.12	.27	-	.10	-06	-24	.07	-33	.04	-	_	-	13					
14	.03	-3/	-	-	-	.28	.02	.38	-	-	-	.01	14					
15 16	.12	.23		•30	-	.02	-18	.54	•24	-	-11	_	15					
****	.05	.01		-	-	.08	./2	165	_	_	168	-	16					
17	.15	.06	.01	.06	-	.63	.09	-	-	-	.02	- 1	17					
10	•33	.04	.20	-	-	.01	.05	.80	-	-	.06	-	18					
20	.02	.23	.03	-	-	.09	.07	-	-	-	10	-	19					
	_	./0	-01			.06	.02						20					
21	-/3	_	_	-14	.14	.05	.24	_	-	-	.18	25.	21					
22	-28	.06	-	-09	*35	.03	.05	-	-	-	.40	25	22					
23	•/3	-06	-	.27	-09	-	.14	_	_		.07	-	23					
24	•21	.37	_	.05	-	.01	.03	-		-	.50	1/3	24					
25	.09	-	_	-	.25	-	-11	_	_	-	.15	-	25					
26	.19	-//	.08	_	32	_	.23	_		-	.09	./0	26					
27	-/3	-19	.55	_	.45	_	.05	_		.25	.43	.23	27					
28	.09	-	.//	_	.32	.08	.02		-18	.07	-	.22	28					
29	.60	×	./3	_	.32	.02	-~		-10	.15	-02	.06	29					
30	.14	×	-63	×	-	×	.114	-	***************************************	-	***************************************	.08	30					
31	17		2.2.3	3.02	3.92	5.41	.14		×		×	- 0	31 YEAR'S TOTAL					
TOTAL Days with	4.26/	3.90	3.02/	3.92/	59	2-85.	2.85	3-48.	2.46/	1.42/	5.41	2.32/	41.28					
or in. or more. Days with	23	23	14	13	16	24	28	9	10	13	24	17	214					
or more.	19	21	10	11	15	18	20	9	9	12	21	13	178/					
40-9999)						(Sig	ned)	1				Jv.T.o.					
													/					

Particulars of Station. Summary. *.* The following register of monthly totals &c., is required if daily or weekly Every observer is requested to fill in this section and also the space for notes as far as possible: values are not given on the other side. Name and Address to which any inquiry relating to this register should be sent:-RAINFALL IN 1929 Boyle, Co. Roscommon Hour of observation by the clock—in Winter Q days in Summer Q description In the County of Rosenson Diameter of Funnel 5 Nearest Parish Church at Boyle Height of Top above Ground Ift - in . Nature of objects Tree Height of Ground above Sea Level 200 ft. nearest to gauge 50 ft Heights of objects Total Greatest Fall Days with Depth. in 24 hours. *01 in. *04 in. 100 yas Inches. | Inches. | Date. | Distances Directions from 2.26 .60 8 1 12 9 N.W. 3.88 1.00 186 11 1 If gauge has been moved during the year state-·20 ·10 20th 2 Date of move Distance Direction Indicate pattern of gauge in use by deleting those sketches of cross sections of gauges which do not represent it. If the pattern is different from any of these please make a sketch of it. (Good gauges to use are those marked A and B.)

If the gauge is of a self-registering or self-recording type please give particulars. .83 -22 74 1.84 40 70 10 2.15 .30 108 12 12 If you know of any record of rainfall not quoted in British Rainfall, please OCT. NOTES ON EXCEPTIONAL RAINFALL OF THE YEAR. In giving particulars of falls of unusual intensity it is desirable that answers to the following questions be supplied:-(a) Is it known that the gauge was empty at the beginning of the measured rainfall? (b) What note was made of the times of beginning and end of this fall?
(c) When was the measurement made?

D INSTRUCTIONS

- Rules for measuring the rainfall and for correctly recording the measurements are given in "Rules for Rainfall Observers," to be obtained gratis from The Director, Meteorological Office, Air Ministry, London, W.C.2, or from The Superintendent, Meteoro-logical Office, 6, Drumsheugh Gardens, Edinburgh.
- 2. In filling up the register on the reverse side the following rules should be observed. Those rules which apply also to the summary form above are printed in italic type:—
- mmary form above are printed in state-type.

 (a) Rain should be measured each morning, preferably at 9 a.m.,
 Greenwich Mean Time. The measurement is to be credited to
 the previous day and should be entered in the register at the
 time of observation. Thus the entry for January 1st is the
 rainfull for the 24 hours following 9 a.m. on January 1st;
 it is therefore the amount measured on January 2nd,
 the should be sho Summer Time Period.
- (b) The raingauge should be visited every morning without exception. When there has been no precipitation the entry in the register should be a dash— (not '00). The entry "trace" or "tr" is to be made in the two following cases,
 (A) and (B).
- (A) When there is less than -005 in, of water in the gauge and the observer knows that this is not the result of a drop or two draining from the sides of the can after emptying the rainwater out of it at a previous time of emptying the rainwater out or it at a previous time of observation, i.e., the observer must be reasonably certain that there has actually been precipitation since the preceding measurement. If the observer knows that the precipitation has been in the form of dew or wet fog this may be noted.

- (B) The observer knows definitely from his own observation that some rain (or other form of precipitation such as snow, hail, sleet or drizzle) has fallen since the presnow, hall, sect or drizze; has fainer since the pre-ceding observation, and yet finds no water in the gauge. This happens sometimes especially in dry, warm weather, without the gauge being even damp, the small amount of rain having evaporated before it
- the small amount of rain naving evaporated octors it of the form of the following can.

 (c) On some measures there is graduation marked 4065; this graduation is to show the limit between the amounts which count as 401 and those which are mere "traces." An entry
- of a not the mode thick register.

 If the morning observation has to be omitted for one day or more, the days covered by the next reading should be indicated by a bracket. Thus 17 18 17 14 would show that the reading on the morning of the 18th day of the month was

- reading on the morning of the 18th day of the month was missed and that the reading on the morning of the 19th was 14 in.

 (c) The total rainfall for the month is found by addition. The addition should always be done a second time as a check. The check is of special importance when the total has already been found in another copy of the register.

 (f) The "number of days with 40 in, or more" includes all the days with any rain except those for which the entry is "trace." The "swember of days with 40 in, or more" includes all the days with any rain except those for which the entries are trace, 91, 92, or 93, 193. trace, .01, .02, or .03.

 (g) If observations are not available for every day during the
- month the spaces for the number of days with rain should be left blank.

 (h) The heaviest daily fall for each month should be underlined.

London: Published by His Majesty's Stationery Office. To be purchased directly from H.M. Stationery Office at the following addresses:
Adastral House, Kingsway, London, W.C.2; 129, George Street, Edinburgh; York Street, Manchester; 1, St. Andrew's Crescent,
Cardiff; 15, Donegall Square West, Belfast; or through any Bookseller. Price 1d. net.

Printed under the authority of His Majesty's Stationery Office by John Corah & Son, Ltd., Loughborough and London. (164) Wt.2398/185/162 14,000 5/29. Gp. 119/110.



An Roinn Tithíochta, Pleanála agus Rialtais Áitiúil





H.M.S. Topaze log

Launched 12 May 1858, Devonport

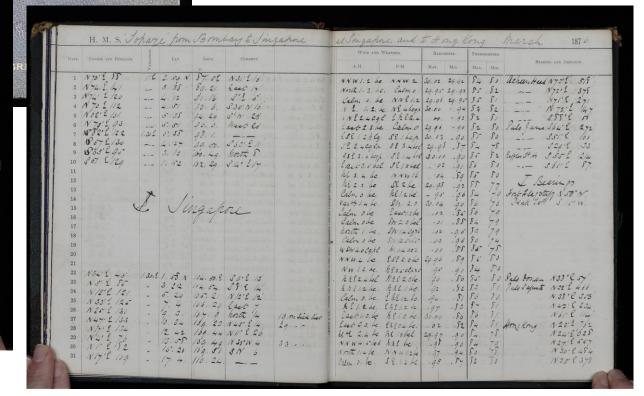
Commissioned 11 June 1859

Decommissioned 28 June 1878

Sold on 14 February 1884 and Fate

broken up at Charlton









GRIFFIN & Co., No. 2, THE HARD.

BOOK.



An Roinn Tithíochta, Pleanála agus Rialtais Áitiúil Department of Housing, Planning and Local Government





Her crew assisted in the building of the Race Rocks Lighthouse in British Columbia, Canada, and laid a bronze tablet in 1868 at the Juan Fernández Islands commemorating the stay of marooned sailor Alexander Selkirk.

The voyage to Easter Island in 1868 saw the crew remove the two moai Hoa Hakananai'a and Moai Hava and ship them to Britain.[3] Hoa Hakananai'a was found in November 1868 by officers and crew from the Topaze. When first seen, it was buried up to about half its height or even more. It was dug out, dragged down on a sledge, and rafted out to the ship. The Admiralty offered the moai to Queen Victoria, who proposed that they should be given to the British Museum.







Metadata rescue

Synoptic stations

VALENTIA OBSERVATORY.

- Climate stations
- Rainfall stations Prior to 1867, the Neteorological Office received daily number of stations in the British Islas. among these stations was Foilhummerun on Valentia Island which

					was maintained by the Magnetic Telegraph Company.
DATE	Date end	TYPE OF INFO	element	INFORMATION	In 1867, the Neteorological Office decided to establish an
1866			station	Station opened on Valentia Island	Observatory at Valentie and steps were taken to provide suitable
1867		ws 53	station	isles. Among these stations was Foilhummerun on Valenti nagnetic telegraph company. In 1867 the met office decidentiand an agreement was signed 14/11/1967 for the renting Peter Fitzgerald Knight of Kerry. In 1890 a larger premise	ts from a number of station in the pritising with the pritising with the pritising with the wild a stand which was maintained by the wish wild wild wild wild wild wild wild wild
17/06/1871	07/11/1930	ws 53	station		In 1890, it became nocessary to obtain larger premises (/1930. quamed no observe tory artificial processary to obtain a green and a green entry to 1932 to be set wood out with a green and agreements 1871 to 1932 to be set wood out with a green and agreements 1871 to 1930 (2) This house was to be a green and agreements 1871 to 1930 (2)
06/03/1905		n	anemo	Robinson cup anemo mounted on roof of westwood house	
27/10/1898		WS1261/63 Photographic Recorders	Light Shutter		Re-light shutter: which became an on-going G'Alsers\closes\metadata excel\valentia\valentia\valentia\seap\ Ws1261-63 Valentia Photo Recorders' bight Shutter 08-10-1943 Ws1261-63 Valentia Photo Recorders' bight Shutter 08-10-1943
01/11/1916		n	anemo	Dines pressure tube anemo installed	it impossible for them to enter into an agreement such as was
29/09/1928		ws53	station	purchase agreement for meteorological station valentia island london. (From report dated 16/01/1939) scanned	acreed that the purchaseval and of Mahas works pulchase agreement 200 1928
April. 1930		ws1261/41	anemo	Delivery lists	G. Users clones (metadata excel valentia valentia scan) Wi1261-41 Anemo April 1930 (3) Wi1261-41 Anemo April 1930 (3) Wi1264-41 Anemo April 1930 (4)
01/01/1932		n	anemo	New pressure tube anemo installed	favour of the Treasurer of the Royal Society, in February, 1892.
12/08/1937	23/01/1939	ws53	station	Memos 1937-1939 scanned for records.	G:\Users\clones\metadata excel\valentia\valentia\scan\ 106 10
01/04/1937		ws53	station	Valentia observatory was transferred from his majestys gove 01/04/1937, the latter government taking over liability for pa	ernment to the government of eire from G\Usen \close\



On 1st October, 1919, the Air Ministry took over the control and administration of the Meteorological Office.

Rescuing Ireland's Climate and Rainfall Data



Data Rescue initiatives:

- 1. Rainfall Data Rescue involving 3rd level students in Maynooth University "Integrating Data Rescue into the classroom"
- 2. Maximum and Minimum Temperature Data Rescue at Galway University (NUIG)
- 3. Full climate journals with the Central Statistics Office
- 4. Other data rescue projects

















Data Rescue: Integrating Data Rescue into the Classroom

Collaboration between Met Éireann and Maynooth University, Ciara Ryan Ph.D. student (now a meteorologist in Met Éireann.







An award winning project to rescue daily rainfall data.







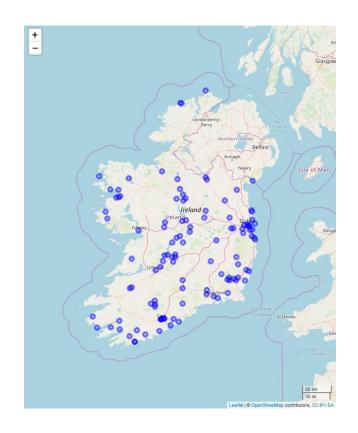




Data Rescue: Integrating Data Rescue into the Classroom

Met

3,616 station years of rainfall data (1.32 million daily values) transcribed from 1864 to 1856



80 70 STATIONS 20 Ö 30 20 10 912 916 920 924 928 932 936 YEAR

Rainfall has been rescued from 114 sites





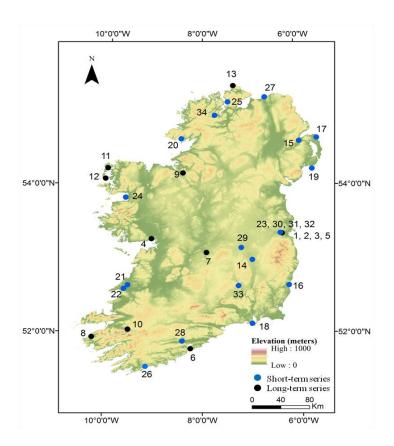




Met Éireann

Rescuing Long-term Maximum and Minimum Air Temperature Series

12 long and 21 short term series were rescued from 1831 to 1968. 97,000 daily maximum and minimum values transcribed for





Carla Mateus

The data was rescued from multiple sources, ~76% was rescued from the Met Éireann archive.

An Roinn Tithíochta,

Department of Housing,

Pleanála agus Rialtais Áitiúil

Planning and Local Government





Rescuing Full Weather Journals



Partnership with Central Statistics Office

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Rescuing Full Weather Journals



Station	Years	1 st Key	2nd Key
Phoenix Park	1829-1959	✓	✓
Blacksod Bay	1884-1956	✓	✓
Roches Point	1873-1956	✓	X
Malin Head	1885-1955	✓	✓
Valentia	1873-1914	✓	X
Birr Castle	1872-1951	✓	X
Fitzwilliam Square	1911-1930	✓	X
Markree Castle	1869-1940	✓	X

It takes approximately 6 hours to rescue 1 station month









Army Medical Meteorological Observations 1866-1875

- Mary Curley & Ciara Ryan, Climate Services
- Maynooth University, MSc in Climate Change, full class project.















			At 9b. A.M., Local Time							At 3h. P.M., Local Time						1		At 9h. A.M., Local Time					1			1			
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Investigating Ireland's highest and lowest temperatures



Agricultural statistics of the weather

- Killarney
- Waterford
- Mount Trenchard, Limerick
- Kilkenny Castle
- Birr Castle
- Dundrum
- Fitzwilliam Square
- Kingstown
- Currygrane, Edgeworthstown
- Markree Castle
- Brooklodge, Fermanagh
- Derry (from Stations of the Second Order publication)
- Mullaghmore (from the Daily Weather Report)



Upcoming projects

- Daily precipitation data rescue project-citizen science
- Re-assessment of Ireland monthly and annual records for:
 - Temperature
 - Precipitation
 - Wind
 - Atmospheric pressure
 - Sunshine
- Beyond 2022 www.virtualtreasury.ie
 - AI OCR Transkribus

The Treasury re-imagines and reconstructs through digital technologies the Public Record Office of Ireland, a magnificent archive destroyed on June 30th, 1922, in the opening engagement of the Civil War.





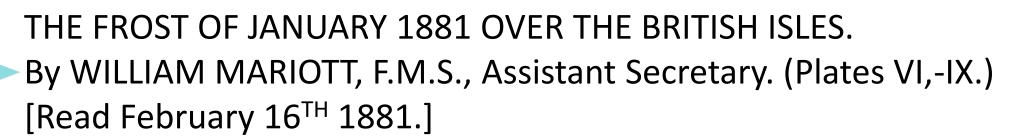


Further investigations

- Data from lighthouses around Ireland
- Other historical data
 - Army records e.g. the Curragh camp
 - Diaries in private collections

• And......







Buncrana
Rathmullan
Markree Castle
Mullaghmore
Enniscoe
Galway(NUIG)
Ballinasloe
Twyford
Parsonstown
Dublin (Phoenix Park)
Monkstown
Killaloe
Ennis
Valentia
Blackrock
Cork
Roches Point
St Mullins
Waterford

19 locations recording maximum and minimum temperature.

Location of data from 10 stations unknown





Finally.....

None of this work would be possible without

- the assistance of staff and students at various organisations and volunteers who transcribed the records (Patricia McGrath and Aoife O'Mullane)
- the observers who meticulously recorded the weather over the years.