



Exceptional weather events

Type of event:
Heavy Rainfall

Date:
October 1987

Preliminary Figures on Heavy Rainfall of
20th 2300 GMT/21st 0900 GMT October 1987

Amounts in millimetres measured in Daily Rain Gauges for the period 0900 GMT on 20/10/1987 to 0900 GMT on 21/10/1987.

St. Columba's College, Rathfarnham	53.0
Ballyboden Filter Beds	46.7
Phoenix Park	42.7
Merrion Square	41.8
R.D.S. Simmonscourt	41.6
Lough Nahanagan	40.3
Botanic Gardens, Glasnevin	40.2
(Glenasmole (Supts Lodge)	37.7)
" (Castlekelly	36.2)
" (D.C. W.W)	34.9)
Clontarf Pumping Station	37.4
Roundwood Filter Beds	37.2
Pouluphuca	36.3

At Synoptic Weather Stations Official Gauge Readings:

Casement Aerodrome

210000 GMT 3.5 mm and 210600 GMT 33.8 mm

Dublin Airport 210000 GMT 1.2 mm and 210600 GMT, 35.1 mm were recorded

Investigation of the Rain Recorder Charts from eight stations indicate as follows:-

Casement Aerodrome:- Rain commenced at 2340 GMT and recorded maximum rate of 12 mm per hour approximately at 0030 GMT - In general steady heavy rain to 0800 GMT

Ballyboden :- Rain commenced at 2300 GMT and in general was steady heavy rainfall to 0800 GMT.

Glenasmole (D.C.W.W):- Rain commenced at 2300 GMT and continued to 0900 GMT - Maximum Rate of fall in excess of 20 mm per hour between 0200 and 0300 GMT.

Simmonscourt (R.D.S.) :- Rain commenced at 2300 GMT and continued to 0800 GMT - Maximum rate of fall in excess of 25 mm per hour between 0130

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and 0230 GMT.

Merrion Square : - Rain commenced at 2300 GMT, continued to 0700 GMT with maximum rate of fall of 20-25 mm per hour at 0130GMT approximately.

Glasnevin (Botanic Gardens) :- Rain commenced at 2315 GMT and reached maximum rate in excess of 20 mm per hour between 0200 and 0300 GMT.

Clontarf Pumping Station :- Rain commenced at 0000 GMT and continued to 0800 GMT at a fairly steady rate throughout.

Dublin Airport :- Rain commenced at 2310 GMT and continued to 0700 GMT. Maximum rate of fall in excess of 40 mm per hour was recorded during the hour 0300 to 0400 GMT.

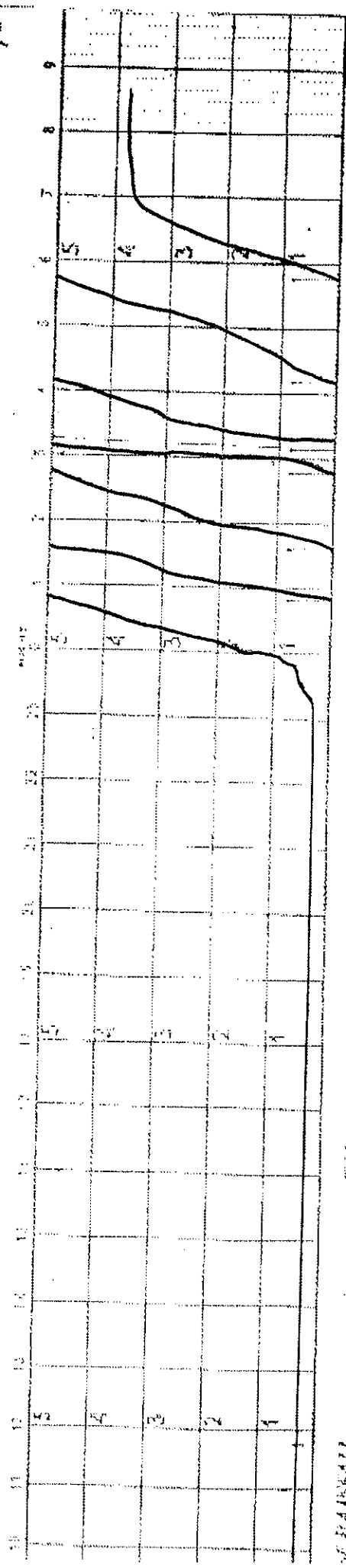
A copy of the rain record chart from Dublin Airport is attached.



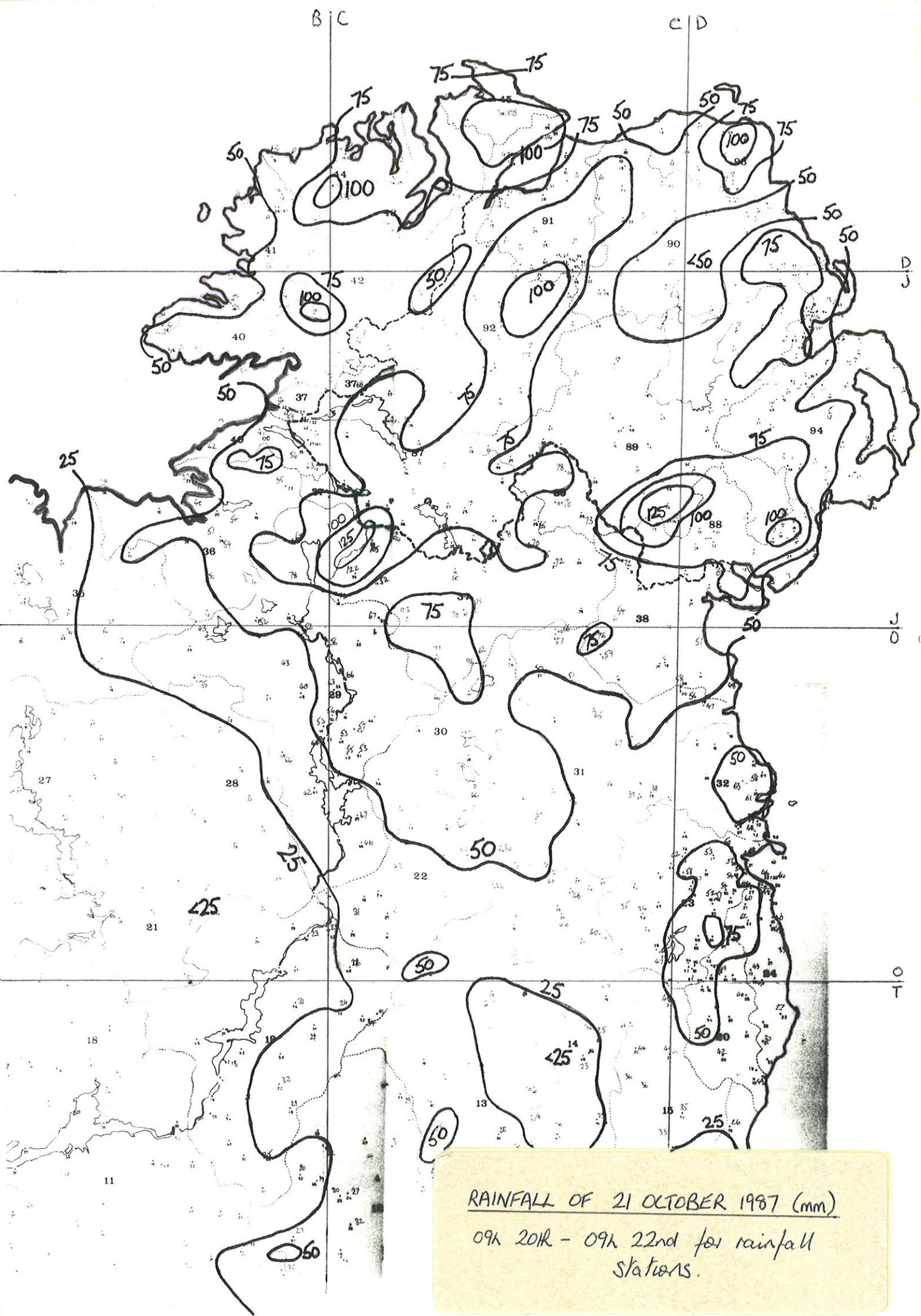
Stephen Gleeson,
Climatological Division,
21/10/'87.

ATTENTION S. GLEESON, CLIMAT D.I.V.

Gain A-records Long H 24 (MSL) Month OCTOBER 1987 Date to 20.08.49. 24.08.86 in Month of 11 AUGUST 1987. Station No. 2914



of RAINFALL to TOTAL BY HAND RUN GAGE
 Scale of 0.1mm per hour or more. 11.0-11.4 mm. Size of glass 305 X 68 mm.
 size of rain - 30 mm. 11.0-11.4 mm. Marginal, Left 9 mm. Right, NEK. Upper 21 mm. Lower, 18 mm.
 TOTAL BY CHECK GAGE 94. to 81.0-8. 12 mm.
 18-00 12 mm.
 03-06 55-1
 CE-11 E



RAINFALL OF 21 OCTOBER 1987 (mm)

09h 201R - 09h 22nd for rainfall stations.