

METEOROLOGICAL SERVICE



**A LOOK AT SOME ASPECTS
OF THE WEATHER
AT CORK AIRPORT**

**By
F. J. Fitzgerald**

**UDC
551.576.4
551.591.36
551.553.6
551.578
656.71(419.5)**

**Glasnevin Hill
Dublin 9**

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June 1980

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ERRATA

- Page 3, Para. 2 : Correct "strenghts" to read "strengths";
- Page 3, Para. 4 : Correct "(a)-(1)" to read "(a)-(L)";
- Page 7, Fig. 4 : Correct drawing to show values of 1.6% and 4.2% as applying to directions 020 and 200 degrees resp. (superimpose attached page 7 over the old page);
- Page 9, Fig. 6 : In title, correct "frequncy" to read "frequency";
- Page 14, Para. 2 : Correct "1960" to read "1968";
- Page 17, Footnote : Correct "Table 7" to read "Table 6";
- Page 18, Fig. 12 : Graphs should be straight lines (unbroken) throughout;
- Page 20, Para. 2 : Correct "(i.e. 1962-1874)" to read "(i.e. 1962-1974)".

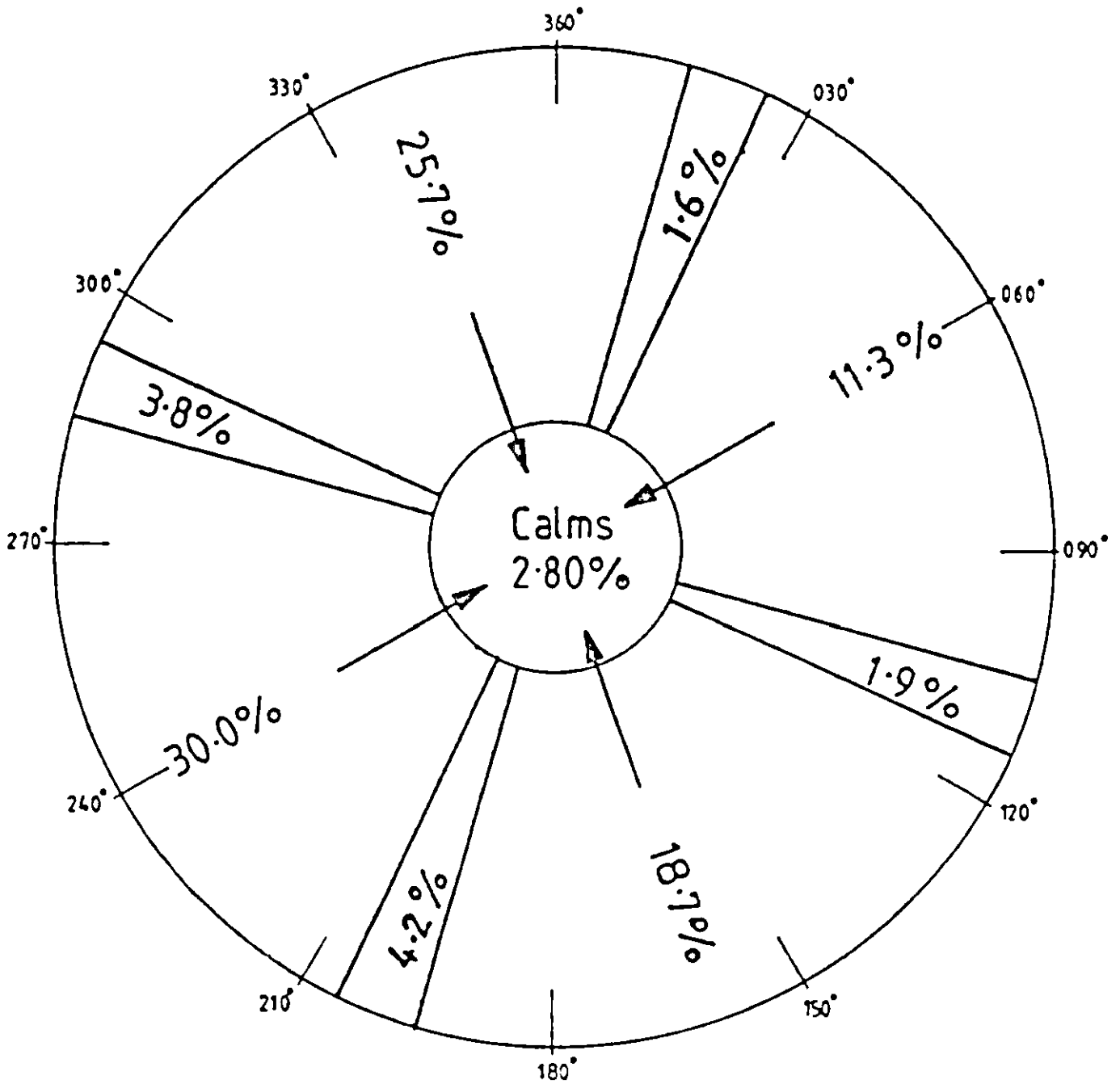


Fig. 4. Percentage frequencies of occurrences of winds in sectors,
(selected in relation to runway orientations) Cork Airport 1962 -1977.

Runway directions 160°-340° true and 062°-242° true

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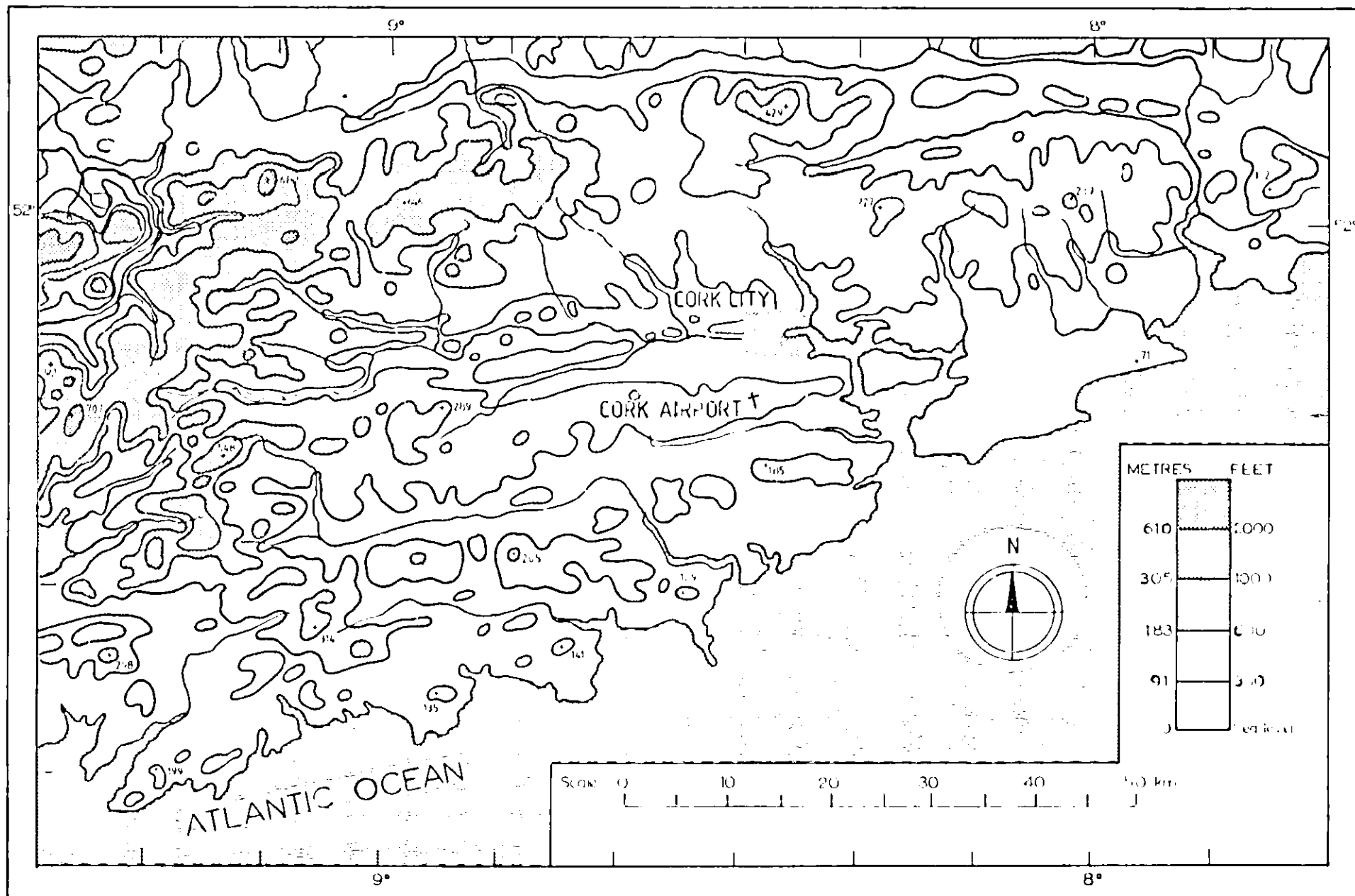
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A LOOK AT SOME ASPECTS

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CORK AIRPORT



Topography of environs of Cork Airport.

A look at the Weather at Cork Airport

Section 1 - Introduction

Cork Airport is situated at 51.50N 08.29W, near the south coast of Ireland, (National Grid Reference W664656). The official airfield level is 153 m (502 feet) AMSL. Cork City lies 6.5 km to the north, while approximately 17 km to the south and southeast is the Atlantic seaboard.

The main runway is 1829 m. in length, with directions 160/340 degrees true. The subsidiary runway is 1310 m. in length and is oriented along 062/242 degrees true. In Fig. 1 is shown a plan of the airfield, on which are marked the runways, and the sites of the main meteorological instruments.

The airport was officially opened in October 1961. Meteorological records date from that period, though measurement of some elements was not introduced until later. To date there has been no alteration in the siting of the instruments.

Detailed statistics are published in the Aeronautical Climatological Summary for Cork Airport, and in other publications of the Irish Meteorological Service.

In these notes diagrams are used to illustrate or interpret some of these statistics, though some selected basic tables are also supplied.

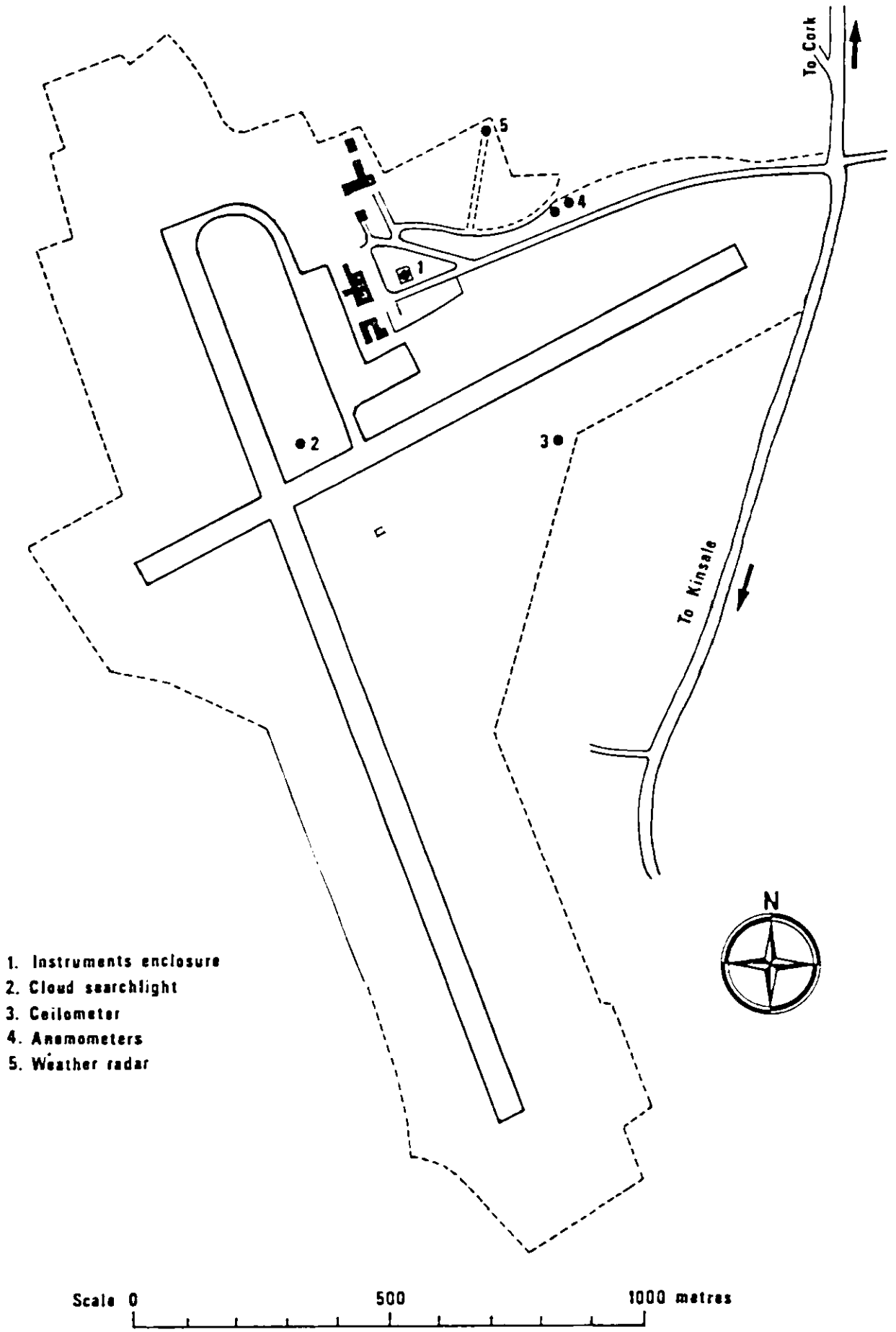


Fig. 1. Location of meteorological instruments at Cork Airport.

Section II - Wind

Wind force and direction have been measured to date by two Dines Pressure Tube Anemometers, sited approximately 770 m. to the northeast of the intersection of the runways, and 1500 m. north of the southern touchdown point on the main runway. One instrument is an Ordinary (direct-reading) Anemometer. The second is a Distant-Reading one, which is coupled with the Anemograph in the Meteorological Operations Office, from which slave displays in Air Traffic Services' positions are fed. This latter anemometer is used for operational rather than climatological purposes.

Fig. 2 illustrates the frequency of occurrence of each 10-degree wind direction, for all wind strengths, during the period 1962-1977 inc. The Wind Rose used here visually 'weighs' each direction.

Fig. 3: (a)-(1) illustrate graphically the frequency of occurrences of each 10-degree wind direction, for each month;

: (m) shows the directional distribution for all winds of mean speed greater than 33 knots, for all months;

: (n) shows the distribution for all wind speeds and for all months - it should be noted that calms were more prevalent than any of the directions in the sector from 350 through 080 to 170 degrees true. 65.6% of all winds occurred in the sector from 180 to 340 degrees true.

Fig. 4: consideration is given to the wind distributions relative to all the runways. Calms plus winds along those directions separating the 'runway sectors' amounted to 14.3% of the total number of observations.

Fig. 5: Two diagrams illustrate the distribution of wind frequencies relative to the main runway, (160/340).

: from A can be seen that 7.5% of all winds were either calm or normal to the runway, and the remaining winds indicated equal preference for runways 34 and 16;

: B illustrates the distribution in the busy months of May, June, July and August.

Fig. 6: The diurnal variation in wind strengths was examined by considering specific ranges of wind speeds for the months March, June, September and December. These diagrams illustrate the variations for Beaufort Forces 3 and 4, and for the combination of these.

Example: at 1500 GMT in June 29.6% of the observations had Force 3 winds, and 38.0% had Force 4, whereas at 0300 GMT 35.1% had Force 3 and 17.5% had Force 4.

Table 1 classifies the variations from month to month in the frequency of occurrence of winds in different sectors.

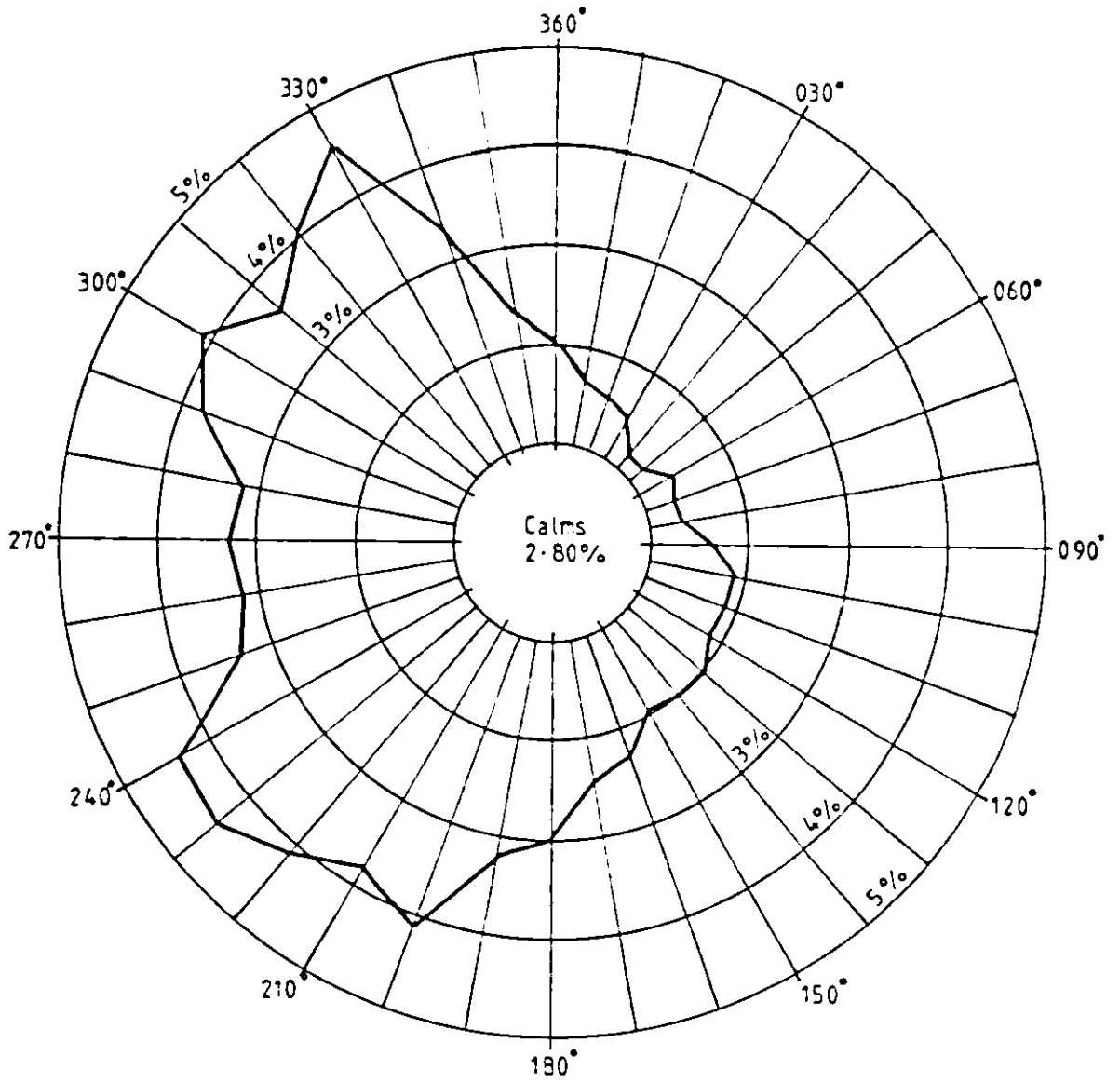
Table 1

PERCENTAGE FREQUENCIES OF OCCURRENCE OF WIND IN SPECIFIED DIRECTION
SECTORS - CORK AIRPORT 1962-1976 inc.

DIR. DEG.	J	F	M	A	M	J	J	A	S	O	N	D	ALL MONTHS
345 - 014	4.0	5.2	6.8	9.2	7.0	4.6	6.0	6.1	5.8	5.0	5.4	6.6	5.9
015 - 044	3.9	6.5	5.3	5.8	4.3	3.0	2.2	2.8	2.7	2.9	4.6	5.2	4.0
045 - 074	4.3	6.4	4.7	5.1	2.9	2.9	1.4	3.0	3.0	3.5	4.5	4.4	3.8
075 - 104	5.0	7.6	5.5	7.7	4.7	4.7	1.8	4.9	5.3	5.0	4.2	2.7	4.9
105 - 134	5.8	8.1	6.9	6.9	5.6	4.9	3.6	5.9	6.1	7.4	4.8	2.1	5.7
135 - 164	7.8	8.2	7.5	4.6	6.4	4.3	4.5	4.9	6.4	9.2	4.4	5.8	6.1
165 - 194	12.4	9.6	7.6	5.7	10.0	9.0	8.1	6.7	8.3	10.2	5.9	8.8	8.7
195 - 224	14.1	8.9	10.5	8.6	12.5	15.3	11.9	11.8	14.7	13.3	11.2	12.6	12.1
225 - 254	14.3	9.9	10.0	9.1	12.3	13.4	14.0	11.6	11.7	13.2	13.8	14.0	12.4
255 - 284	10.7	9.6	9.8	8.3	8.4	8.4	10.4	9.4	9.4	8.2	13.2	12.0	9.9
285 - 314	9.3	10.2	11.6	12.9	11.0	10.7	13.9	13.6	10.5	10.5	13.5	12.6	11.8
315 - 344	6.0	7.3	11.2	14.2	12.1	14.9	17.9	15.4	12.2	10.0	11.5	11.1	12.1
CALM	2.0	2.7	2.5	2.1	2.7	3.9	4.3	4.0	3.8	1.7	2.3	1.8	2.8

Total No. of observations 131,496.

NOTES: (i) The highest gust to date (31/3/79) was 94 knots;
(ii) See also Table 6 following Section VII.



High frequency

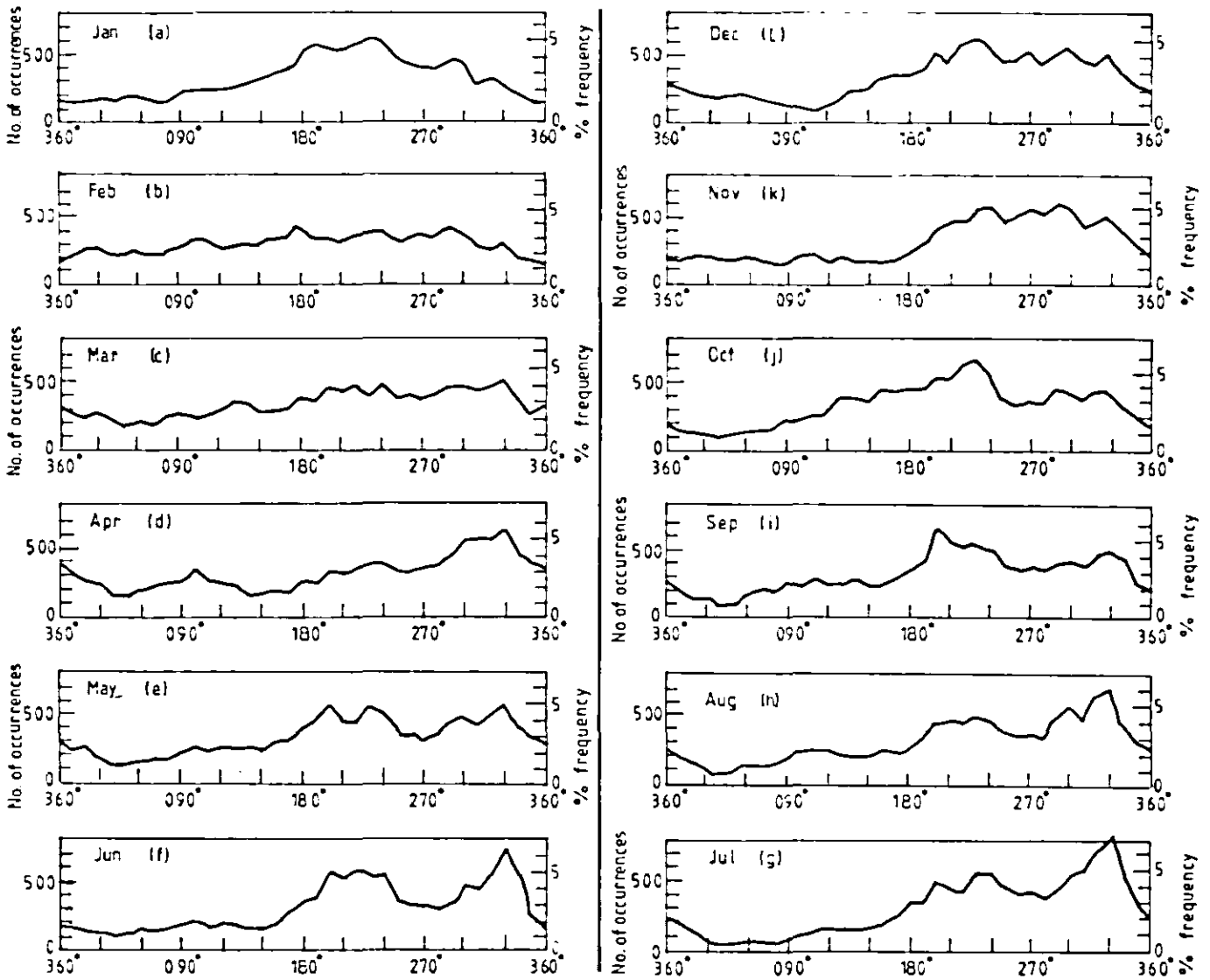
330° : 4.58%
 230° : 4.46%
 240° : 4.39%

Low frequency

040° : 1.15%
 050° : 1.18%
 070° : 1.31%

Fig. 2. Percentage frequencies of occurrences of hourly observations, with each 10-degree wind direction, at Cork Airport: Period 1962-1977

Total number of observations 140 256



Number of occurrences and percentage frequency of specified wind directions for all winds other than calms

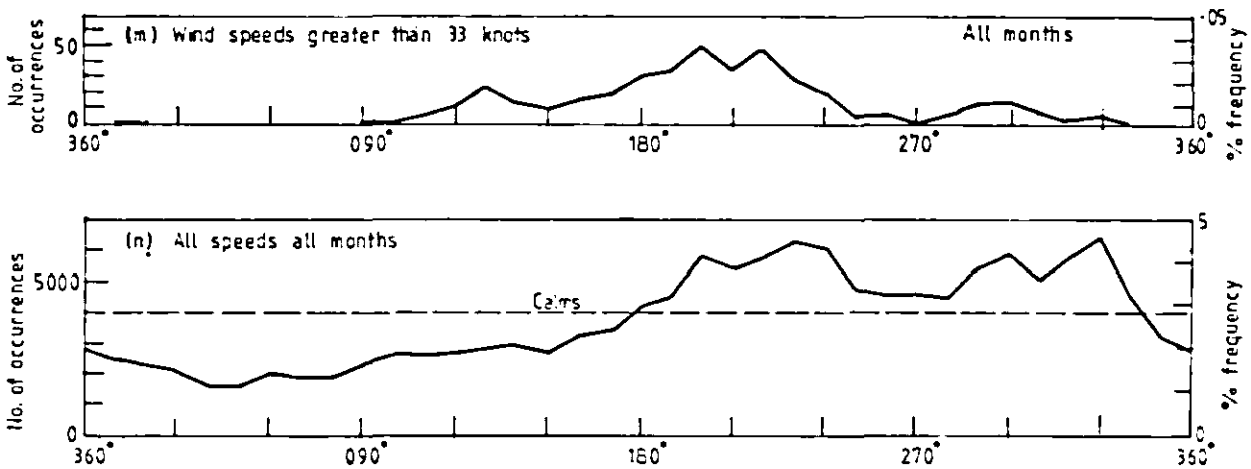


Fig. 1 Number of occurrences and percentage frequency of specified wind directions : Cork Airport 1962 - 1977

Total number of observations = 140,256

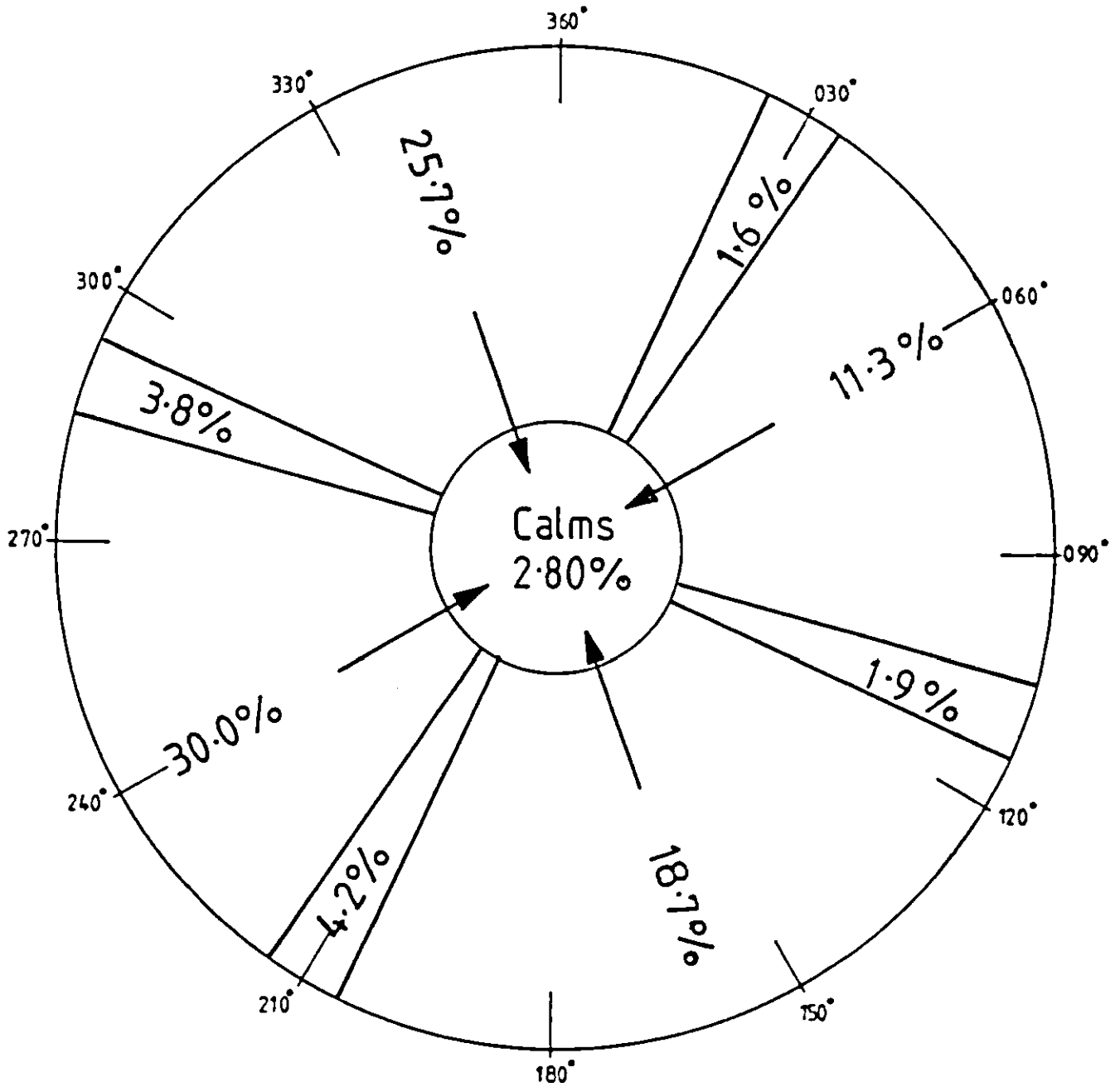
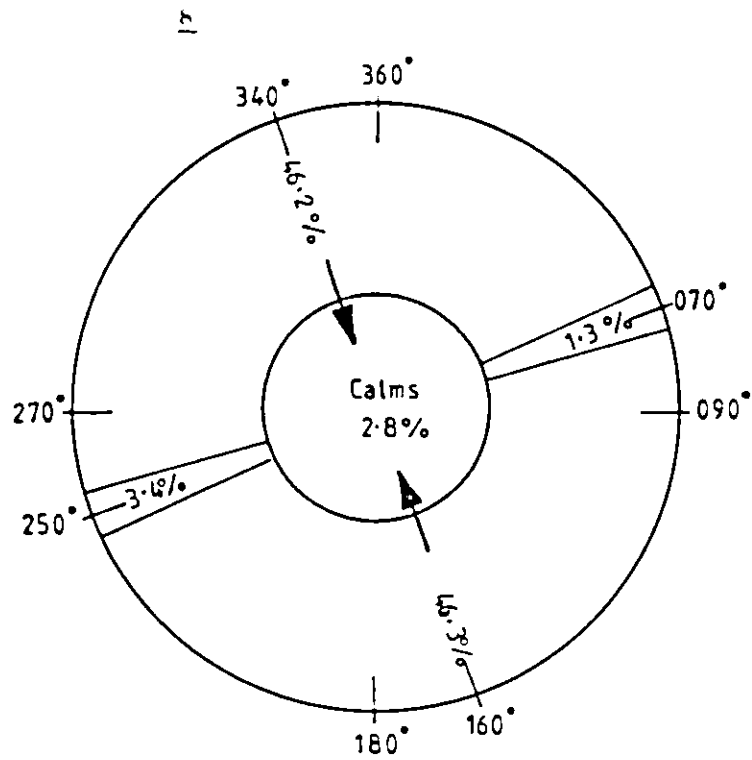
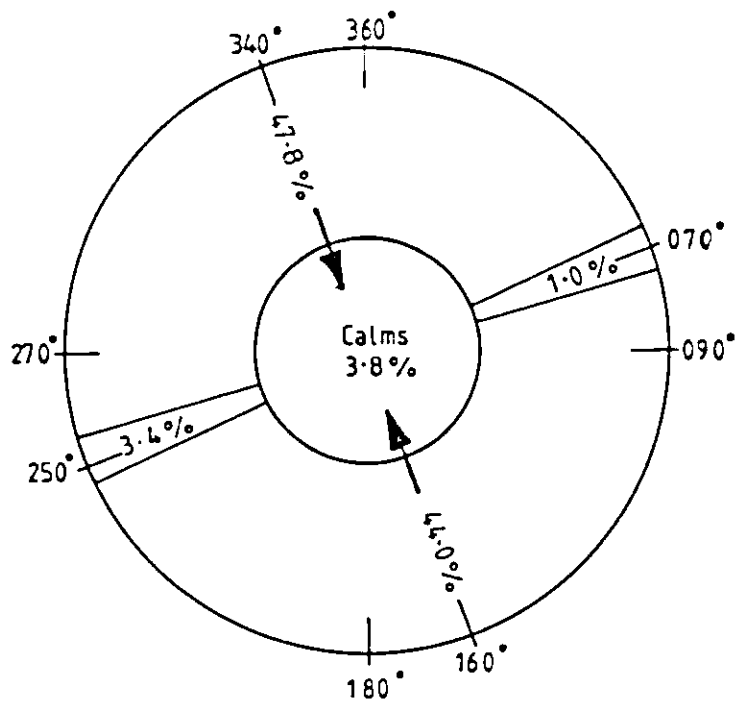


Fig. 4. Percentage frequencies of occurrences of winds in sectors, (selected in relation to runway orientations) Cork Airport 1962 -1977.

Runway directions 160°-340° true and 062°-242° true



A. All months



B. May, June, July and August

Fig. 5. Percentage frequencies of occurrence of winds in sectors (selected in relation to the main runway) Cork Airport 1952 - 1977

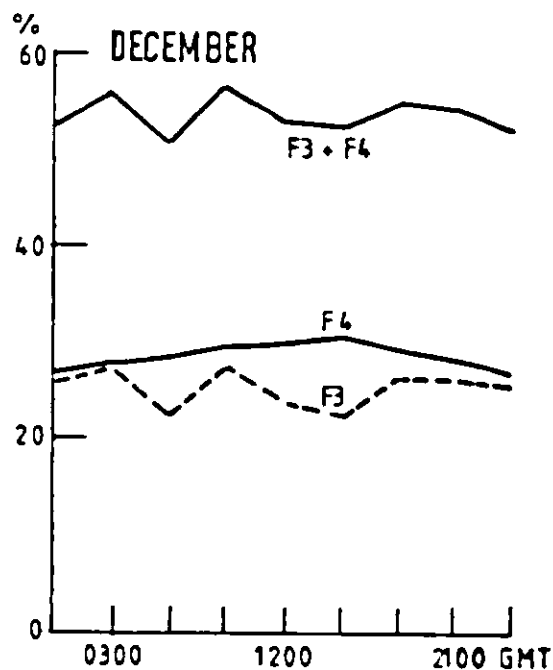
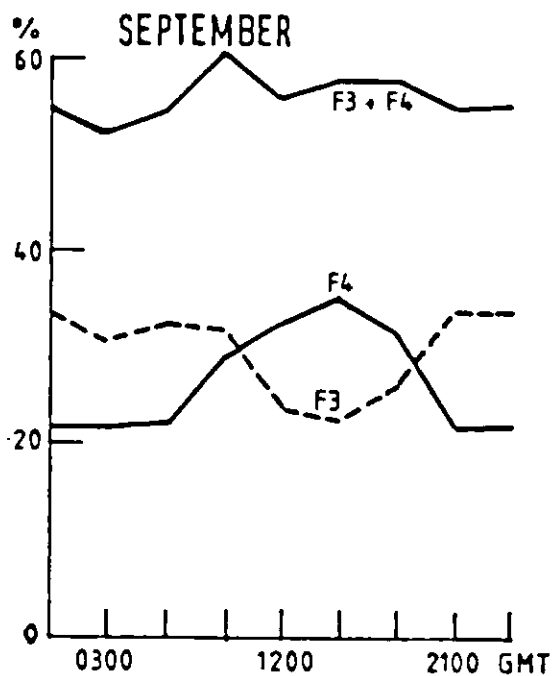
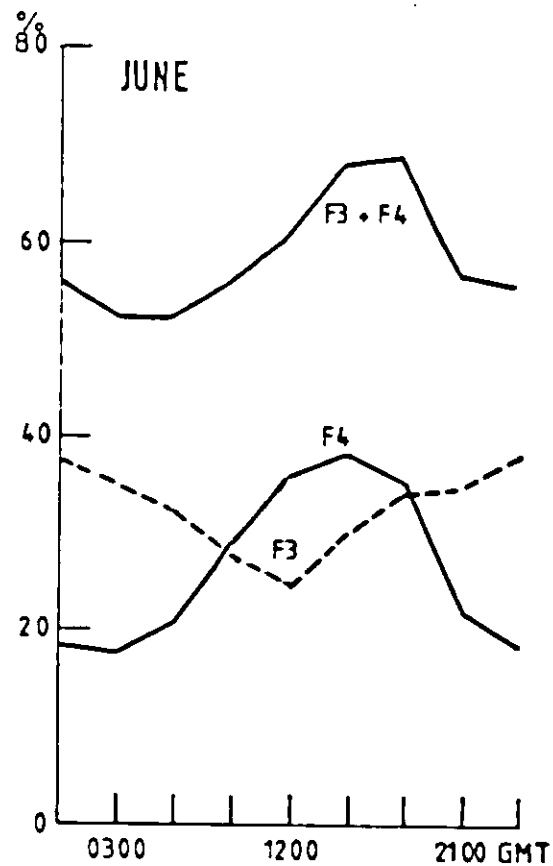
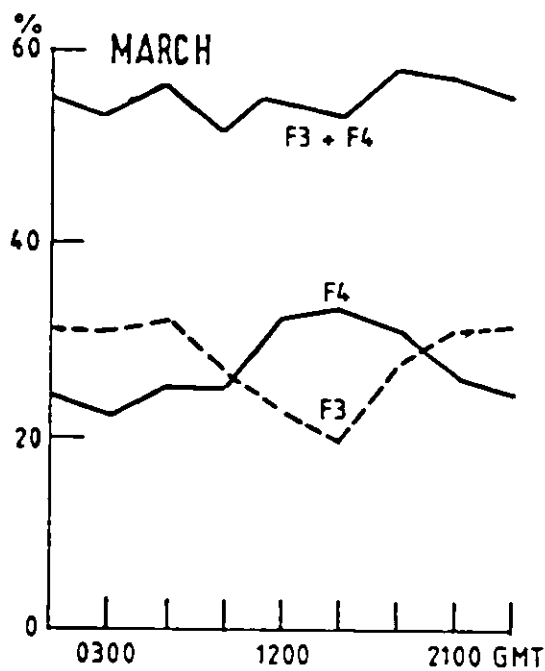


Fig. 6. Diurnal variations in frequency of occurrences of wind forces, (or combinations of wind forces) - Cork Airport: Period 1962 - 1976

F3 = 7 - 10 knots, F4 = 11 - 16 knots, F3 + F4 = 7 - 16 knots

Section III - Rainfall

Rainfall was measured using a standard raingauge of 12.7 cm diameter, with its receiving surface 0.3 m. above ground level. The raingauge was sited in the Instruments Enclosure, (cf. Fig. 1).

The term "rainfall", used herein, includes all forms of percipitation, measured as the equivalent amount of rain. Monthly rainfall records for Cork Airport are available since January 1962.

The average annual rainfall for Cork Airport during the 15-year period from 1962 to 1976 was 1169 cm.

Fig. 7 shows the average monthly rainfall, in histogram form.

Fig. 8 contrasts the Cork Airport average with those from selected stations in the Cork area, and with one of the wettest and one of the driest rainfall stations in the country.

Fig. 9 illustrates the monthly maximum and minimum values of rainfall (cf. Table 2) and contrasts them with the maximum rainfall in any day in each month of the same period, 1962-1976 inc.

A rainfall 'day' is taken as a period of 24 hours commencing 0600 GMT.

Table 2 indicates the range of monthly rainfall values, from the minimum February value of 5.9 mm to the maximum January value of 342.7 mm - again during the period 1962-1976 inc.

Table 3 lists the highest rainfall amounts recorded in specified periods at Cork Airport.

Table 2

EXTREME MONTHLY RAINFALL VALUES (mm) AT CORK AIRPORT 1962-1976 inc.

MONTH	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YEAR
MAXIMUM	342.7	304.1	233.9	235.0	182.5	128.8	186.3	134.6	186.2	232.2	205.1	203.2	1507.1
MINIMUM	90.3	5.9	33.2	17.6	32.0	20.2	23.3	14.1	14.0	31.5	41.5	25.3	928.4

Table 3HIGHEST RAINFALL AMOUNTS RECORDED IN SPECIFIED PERIODSAT CORK AIRPORT.

PERIOD	AMOUNT (mm)	DATE
15 minutes	13.6	12th October 1966
30 minutes	15.5	12th October 1966
1 hour	22.7	10th July 1975
2 hours	41.2	10th July 1975
3 hours	52.5	10th July 1975
4 hours	58.2	10th July 1975
6 hours	66.4	10th July 1975
12 hours	75.5	10th July 1975
24 hours	94.0	21st/22nd October 1975

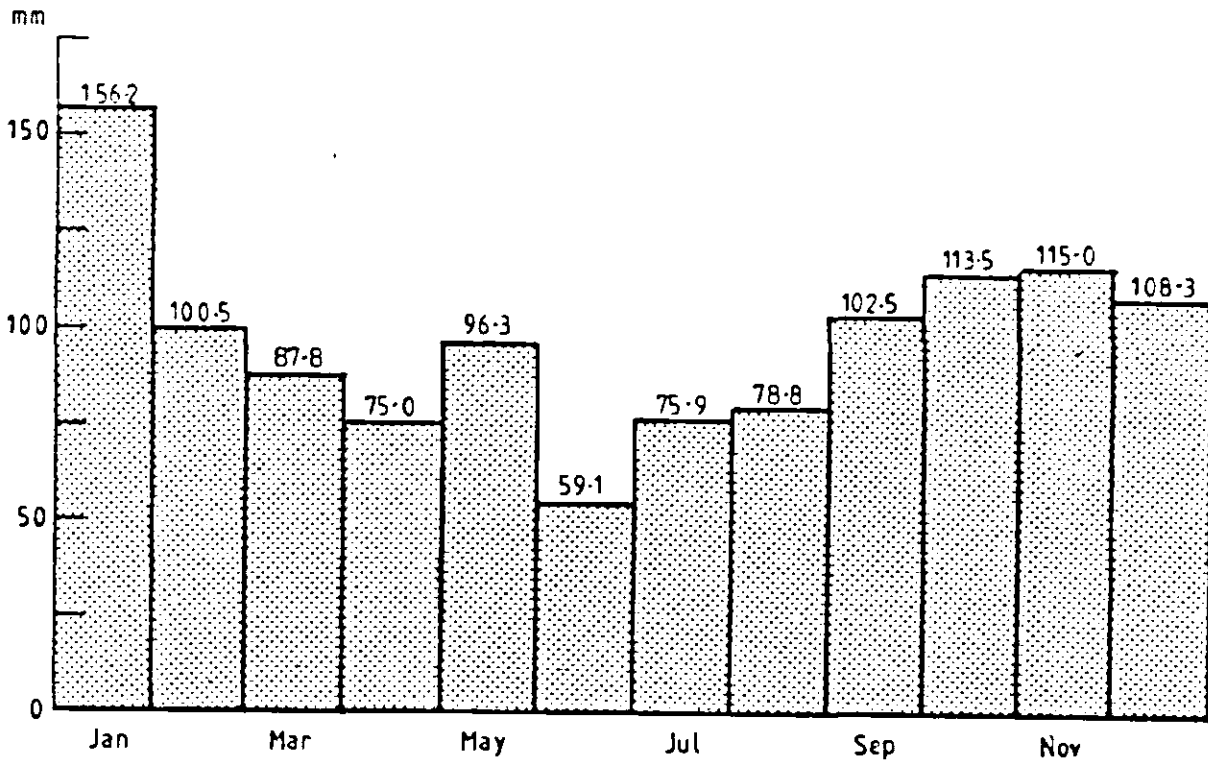


Fig. 7. Average monthly rainfall (mm) Cork Airport; Period 1962 - 1976 inc.

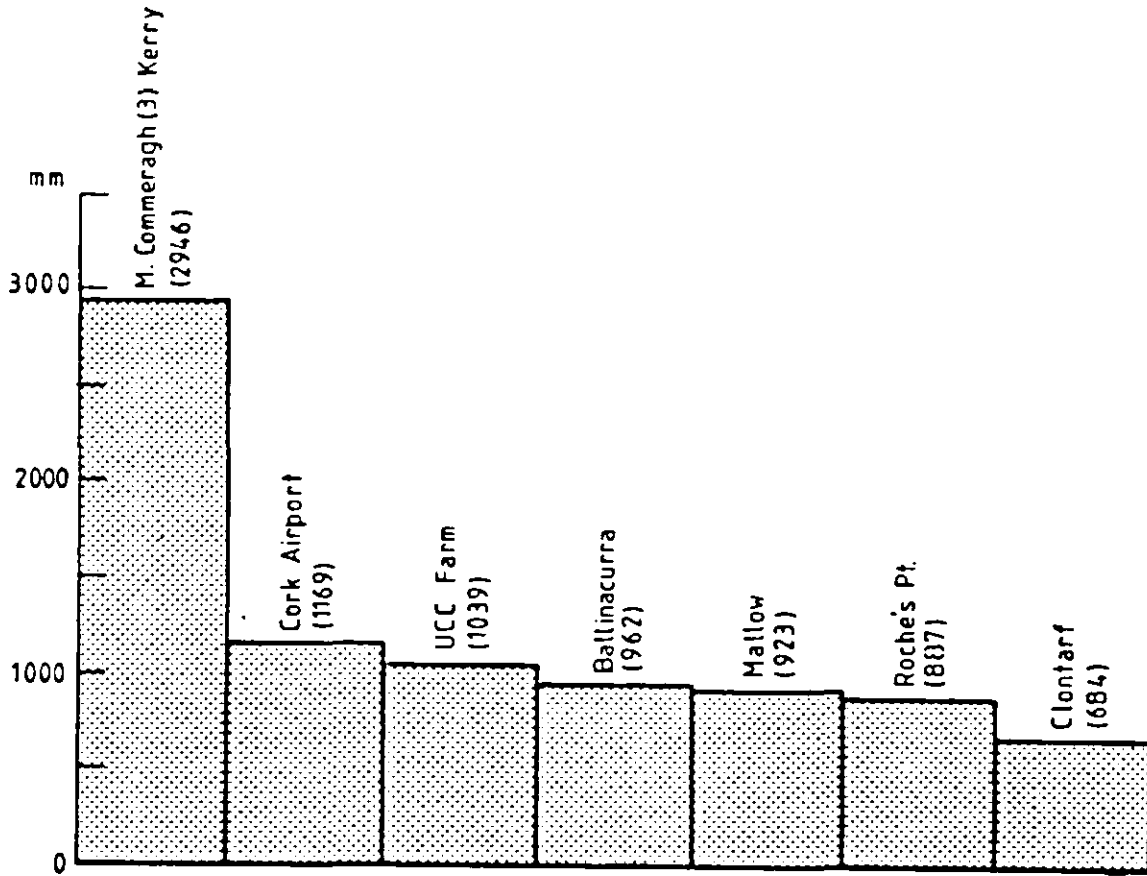


Fig. 8. 15 - year average annual rainfall (1962 - 76) at Cork Airport, and at other selected specified stations.

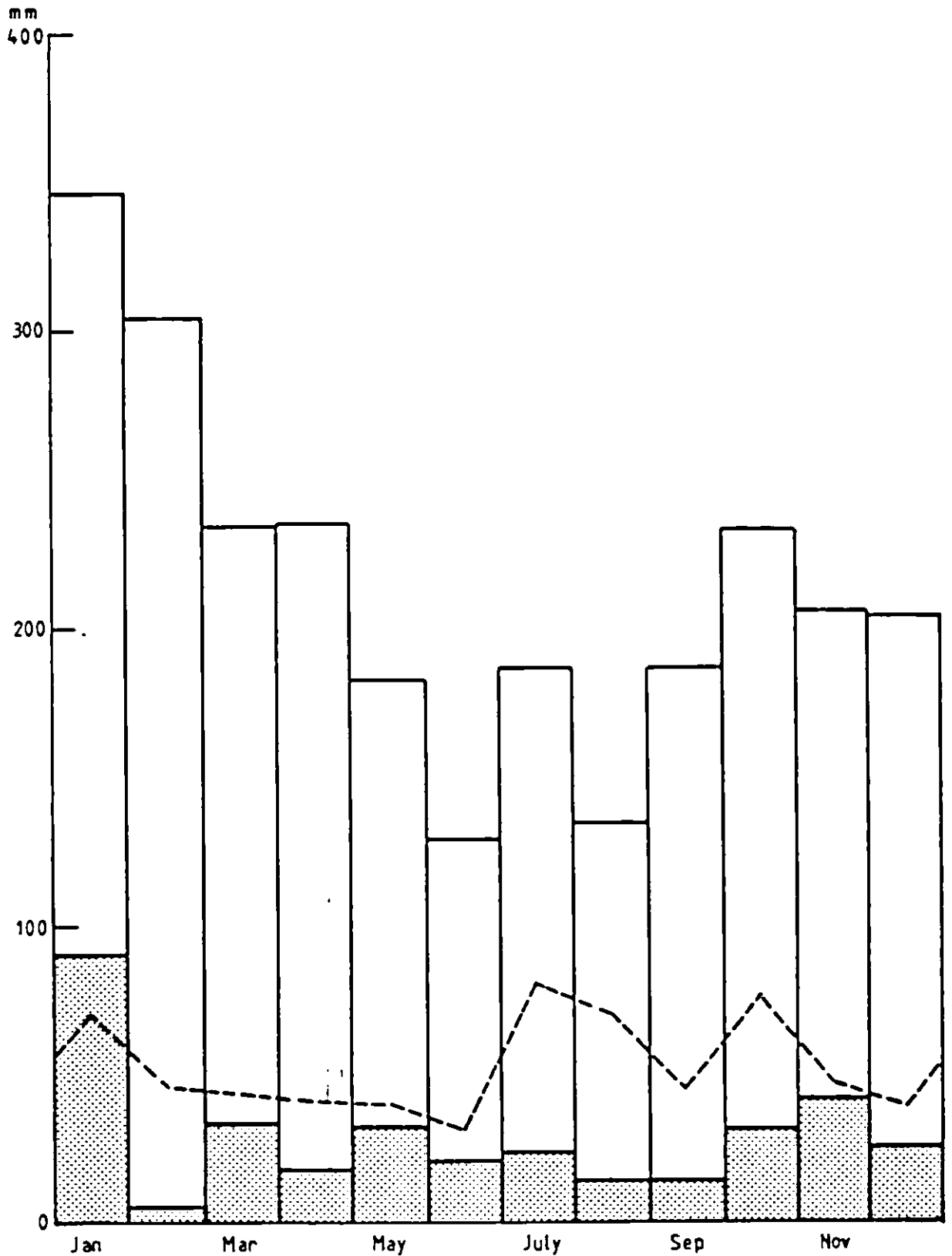


Fig. 9.



Monthly maxima and minima values at Cork Airport: Period 1962 - 1976 inc.



Maximum rainfall amount in a day during the same period
 Rainfall day is period of 24 hours commencing 0600 GMT

Section IV - Sunshine

Duration of bright sunshine was measured using a Campbell-Stokes sunshine recorder. Monthly measurements are available since April 1962.

The annual mean daily duration of bright sunshine varied from 3.64 hours in 1977 to 4.37 hours in 1960.

Fig. 10 illustrates the mean daily duration for the months March, June, September and December in each year of the 15 year period 1963-1977.

During the full period in which bright sunshine has been recorded at Cork Airport, the highest mean daily duration occurred for the month of May 1966, to the amount of 8.24 hours. The month with the lowest mean daily duration was December 1977, with 0.64 hours.

Fig 11 contrasts the actual mean daily duration for each month with the possible (at this latitude).

Airport buildings could reduce sunshine records by approx. 0.1 hours in February and October, by approx. 0.5 hours in January and November, and by 0.4 hours in December.

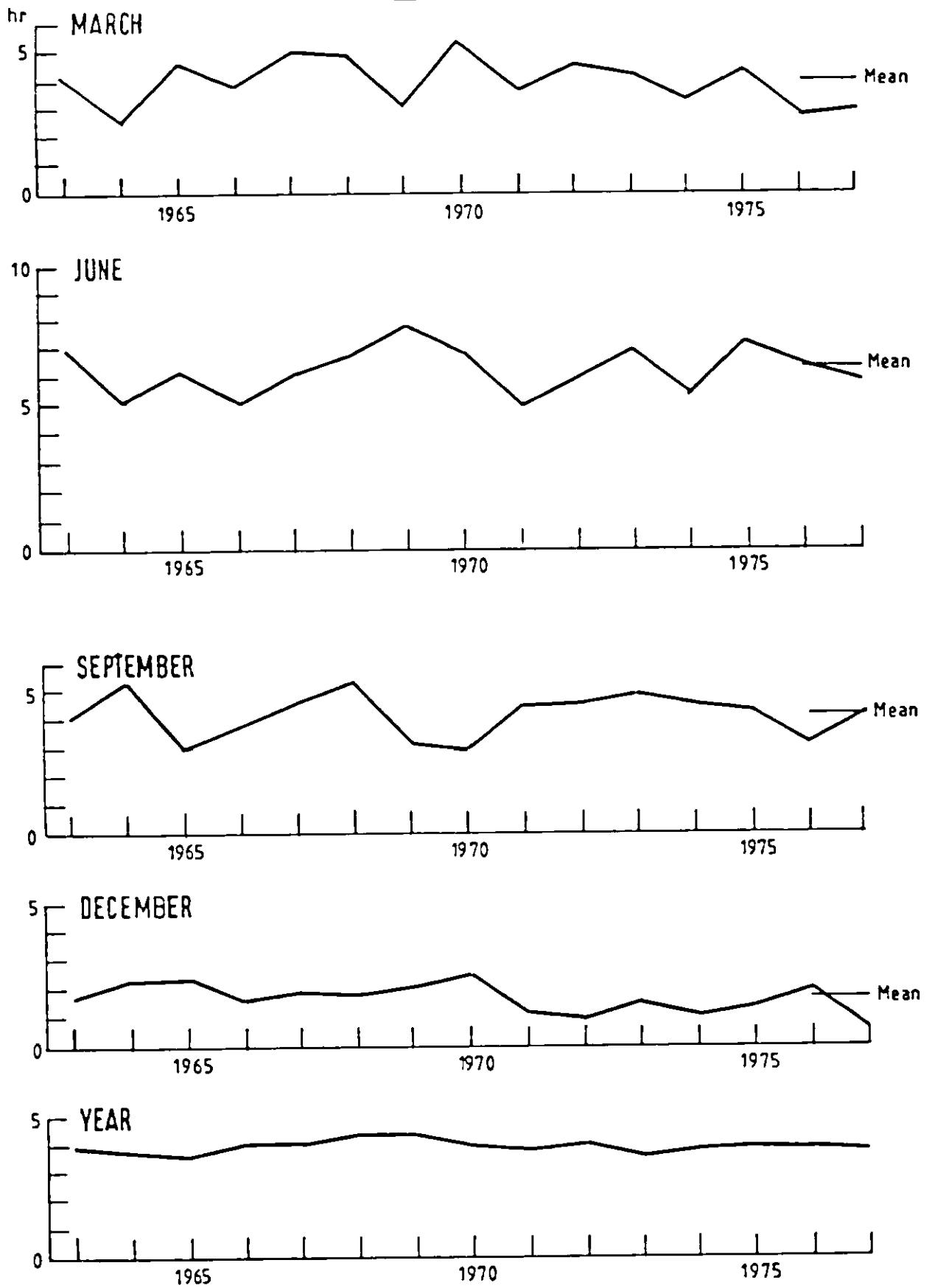


Fig. 10. Mean daily duration of bright sunshine at Cork Airport : Period 1963 - 1977.

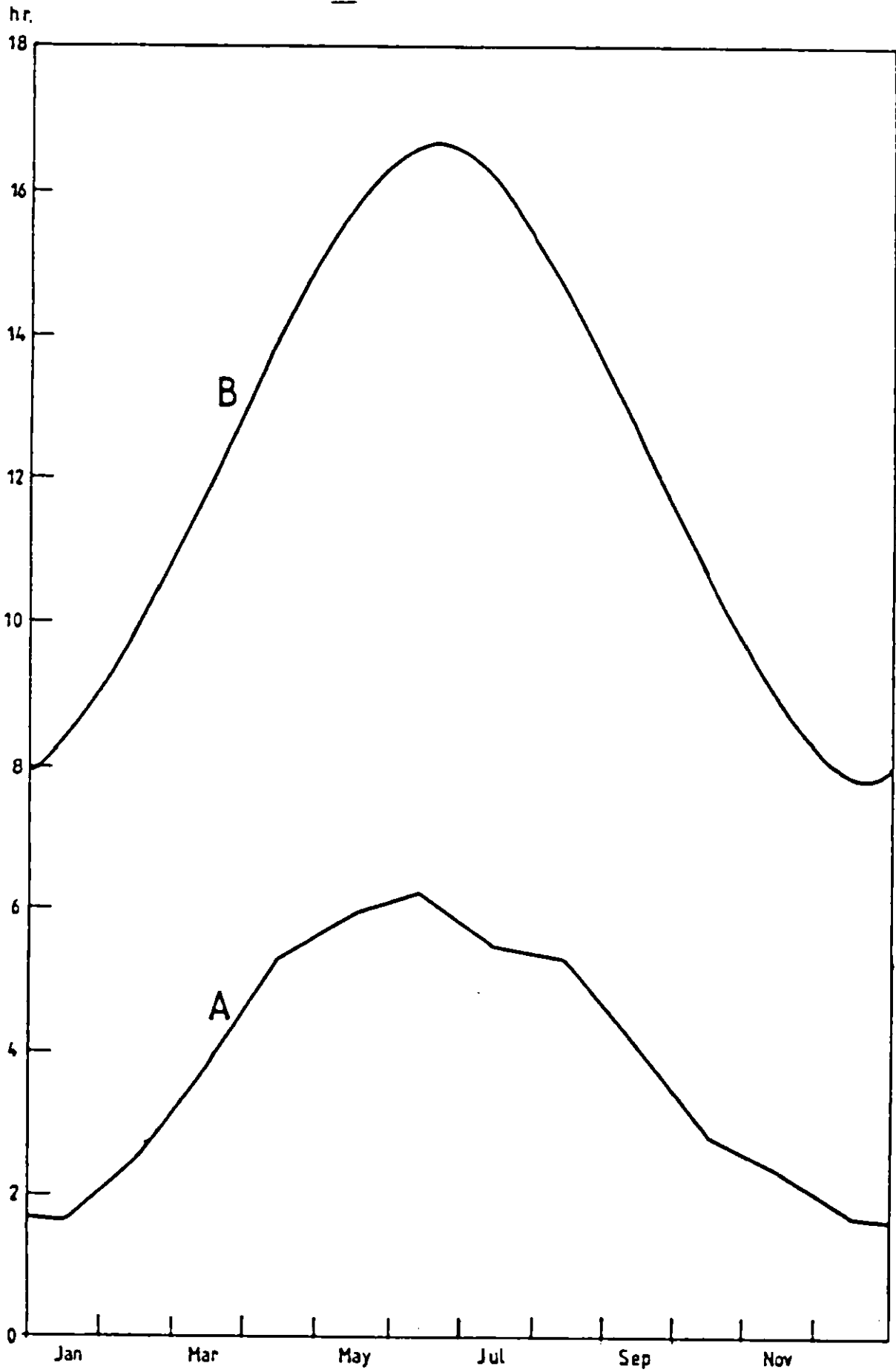


Fig. 11.

A. Mean daily duration of bright sunshine at Cork Airport: Period 1963 - 1977.

B. Mean daily duration of possible sunshine.

Section V - Temperature

Thermometers are housed in a standard Stevenson Screen in the Instruments Enclosure, (cf. Fig 1).

Dry and wet bulb and maximum thermometers used were standard "mercury-in-glass", while minimum temperatures were obtained using alcohol-in-glass thermometers.

Specified air temperature values, in the period 1962-1976, are illustrated in Fig. 12 (A and B).

During this period the air temperature ranged from an absolute minimum of -8.6 C to an absolute maximum of 27.5 C.

NOTES: Lowest grass temperature to date (31/3/79) was -12.4 C;
Lowest air temperature to date (31/3/79) was -8.6 C;
see also Table 7 following Section VII.

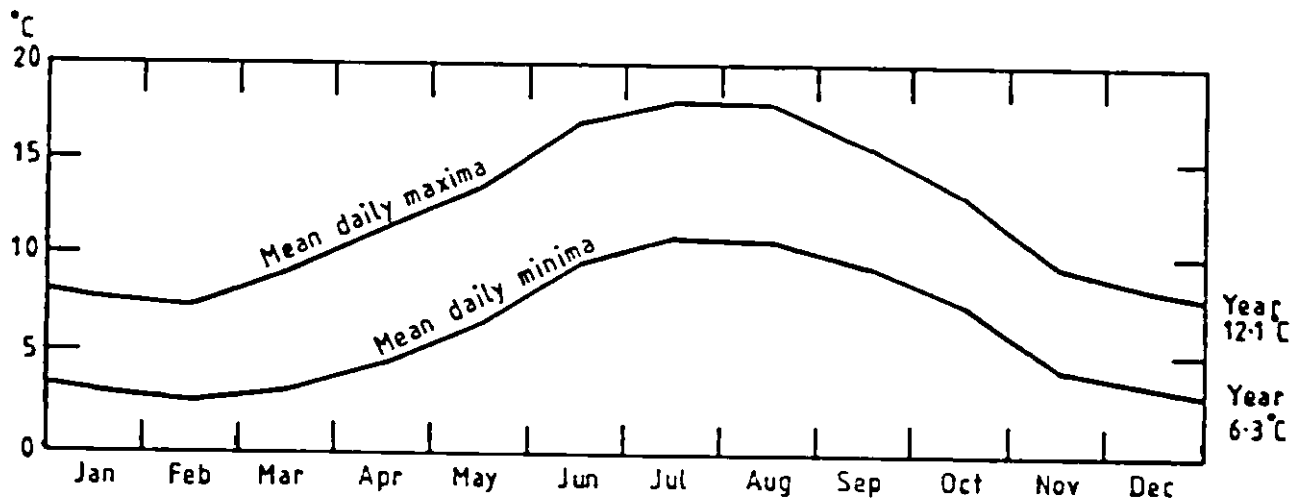


Fig. 12a. Specified air temperature values at Cork Airport, period 1962 - 1976 inc.

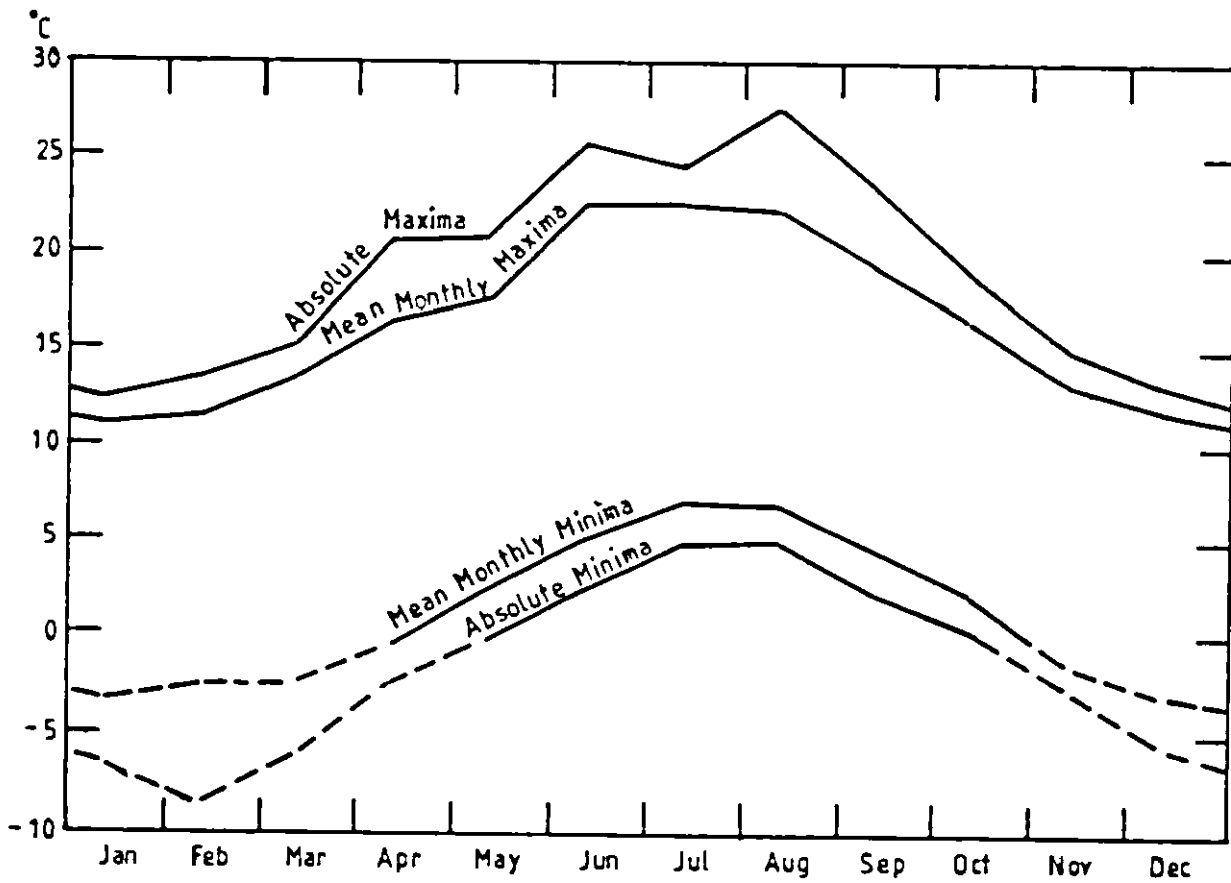


Fig. 12.b. Specified air temperature values at Cork Airport, period 1962 - 1976 inc.

Notes. a. above, suggests an aerodrome reference temperature of 18.1 °C. Aerodrome reference temperature is defined as the monthly mean of daily maximum temperature for the month with the highest monthly mean temperature.

Section VI - Visibility and Ceiling.

Climatological tables give frequencies of occurrences of specified ranges of visibilities and heights of base of lowest cloud which, with cloud below it, covers more than 4/8ths. of the sky, i.e. the cloud "ceiling".

In the period 1962-1976, of all the hourly observations at Cork Airport, the following frequencies obtained:

18.7% had visibility less than 8 km;
 14.1% had ceilings below 150 m;
 and 11.3% had visibility less than 8 km and ceilings below 150m.

Again, (cf. Table 4) it can be determined that of all the hourly observations in this period:

6.3% had ceilings below 60 m;
 4.1% had visibilities less than 800 m;
 and 3.9% had visibilities less than 800m and ceilings below 60 m.

Fig. 13 considers selected ranges of ceiling and visibility, and illustrates their frequencies of occurrence with different wind sectors. All show marked peaking in the SW. However, as has been previously indicated, in Section II, some wind sectors have a much higher frequency of occurrence than others.

Fig. 14 therefore "weights" the values of Fig.13 relative to the prevalence of respective wind sectors.

For all hourly observations with wind directions from 135 to 194 degrees true, just over 47% had ceilings below 300 m and/or visibilities less than 4.8km,
 approx. 33% " " " 150 m " " " 1.6km,
 and 16 to 17% " " " 60 m " " " 0.8km.

Also for observations with wind directions from 255 to 314 degrees true, only 5.1% had ceilings below 300 m and/or visibilities less than 4.8 km,
 and 1% " " " 60 m " " " 0.8 km.

Table 5 gives the values on which Figs. 13 and 14 are based.

Fig. 15 considers the diurnal variation in "low" cloud ceilings. Percentage frequencies of occurrence of ceilings below three selected values are illustrated, for each hourly observation. There were 4748 reports for each hour over the 13-year period.

Fig. 16 considers the diurnal variation in "poor" visibilities over the same period reviewed in Fig. 15 (i.e. 1962-1874).

Low ceilings would seem to be of greater influence than are poor visibilities.

Table 4

PERCENTAGE FREQUENCIES OF SIMULTANEOUS OCCURRENCES OF SPECIFIED RANGES OF VISIBILITIES AND HEIGHT OF BASE OF CLOUD WHICH WITH CLOUD BELOW IT COVERS MORE THAN 4/8ths. OF THE SKY. - CORK AIRPORT 1962-1976 Inc.

VISIBILITY RANGE in km.	<u>ALL MONTHS</u>												TOTAL
	<u>CLOUD HEIGHT IN METRES</u>												
	0 TO 30	30 TO 60	60 TO 90	90 TO 120	120 TO 150	150 TO 180	180 TO 240	240 TO 300	300 TO 450	450 TO 900	900 TO 2400	2400 TO MORE*	
0.0 - 0.1	0+	0+	0+									0+	0+
0.1 - 0.2	0.1	0.7	0+	0+				0+	0+	0+	0+	0.1	0.8
0.2 - 0.3	0+	0.8	0+	0+				0+	0+	0+	0+	0.1	1.0
0.3 - 0.4	0+	0.6	0+	0+	0+		0+	0+	0+	0+	0+	0.1	0.7
0.4 - 0.5	0+	0.6	0+	0+	0+	0+		0+	0+	0+	0+	0.1	0.7
0.5 - 0.6	0+	0.4	0+	0+	0+	0+		0+	0+	0+	0+	0+	0.4
0.6 - 0.7	0+	0.3	0+	0+	0+	0+	0+	0+	0+	0+	0+	0+	0.3
0.7 - 0.8		0.2	0+	0+	0+		0+	0+	0+	0+	0+	0+	0.2
0.8 - 0.9	0+	0.4	0+	0+	0+	0+	0+	0+	0+	0+	0+	0.1	0.5
0.9 - 1.0		0.2	0+	0+	0+		0+	0+	0+	0+	0+	0+	0.2
1.0 - 1.2		0.1	0.1	0+	0+	0+	0+	0+	0+	0+	0+	0+	0.2
1.2 - 1.6	0+	0.4	0.1	0.1	0+	0+	0+	0+	0+	0+	0+	0+	0.7
1.6 - 2.0		0.3	0.2	0.1	0+	0+	0+	0+	0+	0+	0+	0+	0.7
2.0 - 2.4		0.3	0.2	0.1	0+	0+	0+	0+	0+	0+	0+	0.1	0.9
2.4 - 3.2	0+	0.3	0.4	0.2	0.1	0.1	0.1	0+	0.1	0+	0.1	0.2	1.6
3.2 - 4.8	0+	0.3	0.6	0.4	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.3	2.7
4.8 - 8.0		0.2	0.7	0.8	0.6	0.5	0.6	0.4	0.5	0.7	0.6	1.2	6.8
8.0 - 16.0	0+	0.1	0.4	0.7	0.9	0.9	1.4	1.0	1.9	2.6	2.5	3.6	15.9
16 OR MORE	0+	0+	0.1	0.2	0.3	0.4	1.1	1.1	4.7	10.9	16.9	29.7	65.4
TOTAL	0.1	6.2	3.0	2.5	2.3	2.0	3.6	2.6	7.3	14.5	20.2	35.7	

TOTAL NUMBER OF OBSERVATIONS: 131496.

* includes cases of cloud amount 4/8ths. or less.

EACH RANGE IS FROM SPECIFIED LOWER LIMIT UP TO BUT NOT INCLUDING SPECIFIED UPPER LIMIT.

THE ENTRY '0+' INDICATES THAT THE PERCENTAGE IS GREATER THAN ZERO BUT LESS THAN 0.05.

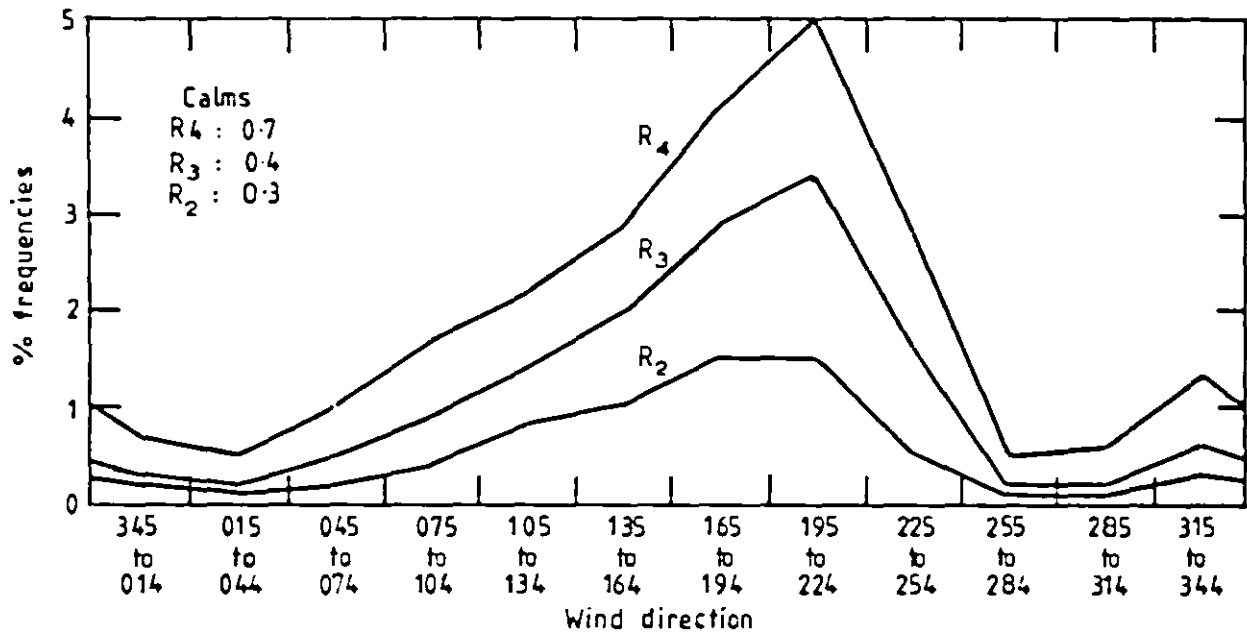


Fig. 13. Percentage frequencies of occurrence, in wind direction sectors, of specified ranges of ceiling and visibility.

Range R_2 denotes ceiling less than 60 m and/or visibility less than 0.8 km
 • R_3 " " " " " 150 m " " " 1.6 km
 • R_4 " " " " " 300 m " " " 4.8 km

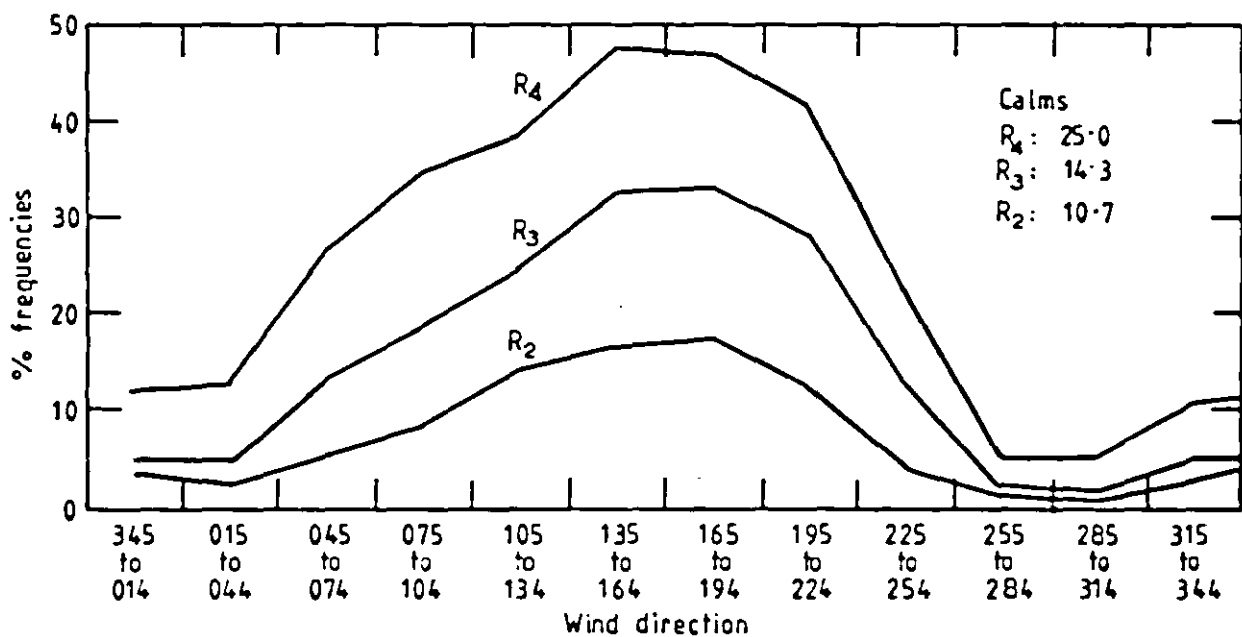


Fig. 14. Frequencies of occurrence of selected ranges of ceiling and/or visibility, expressed as percentages of the total frequencies of occurrence of the associated specified wind sectors.

Table 5.

PERCENTAGE FREQUENCIES OF OCCURRENCES OF SPECIFIED RANGES OF
VISIBILITIES AND/OR CEILINGS FOR EACH WIND DIRECTION SPECIFIED

CORK AIRPORT 1962-1976 inc.

WIND DIRECTIONS IN DEGREES TRUE	F	R ₂	R ₃	R ₄	$\frac{R_2 \times 100}{F}$	$\frac{R_3 \times 100}{F}$	$\frac{R_4 \times 100}{F}$
345-014	5.9	0.2	0.3	0.7	3.39	5.08	11.88
015-044	4.0	0.1	0.2	0.5	2.50	5.00	12.50
045-074	3.8	0.2	0.5	1.0	5.26	13.16	26.31
075-104	4.9	0.4	0.9	1.7	8.16	18.37	34.70
105-134	5.7	0.8	1.4	2.2	14.04	24.56	38.60
135-164	6.1	1.0	2.0	2.9	16.39	32.79	47.54
165-194	8.7	1.5	2.9	4.1	17.24	33.33	47.13
195-224	12.1	1.5	3.4	5.0	12.40	28.10	41.32
225-254	12.4	0.5	1.6	2.8	4.03	12.90	22.58
255-284	9.9	0.1	0.2	0.5	1.01	2.02	5.05
285-314	11.8	0.1	0.2	0.6	0.85	1.69	5.08
315-344	12.1	0.3	0.6	1.3	2.48	4.96	10.74
CALM	2.8	0.3	0.4	0.7	10.71	14.28	24.99

F = Percentage frequency of occurrence of wind directions specified.

R₂ = Ceiling less than 60m and/or visibility less than 0.8 km.

R₃ = " " " 150m " " " " 1.6 km.

R₄ = " " " 300m " " " " 4.8 km.

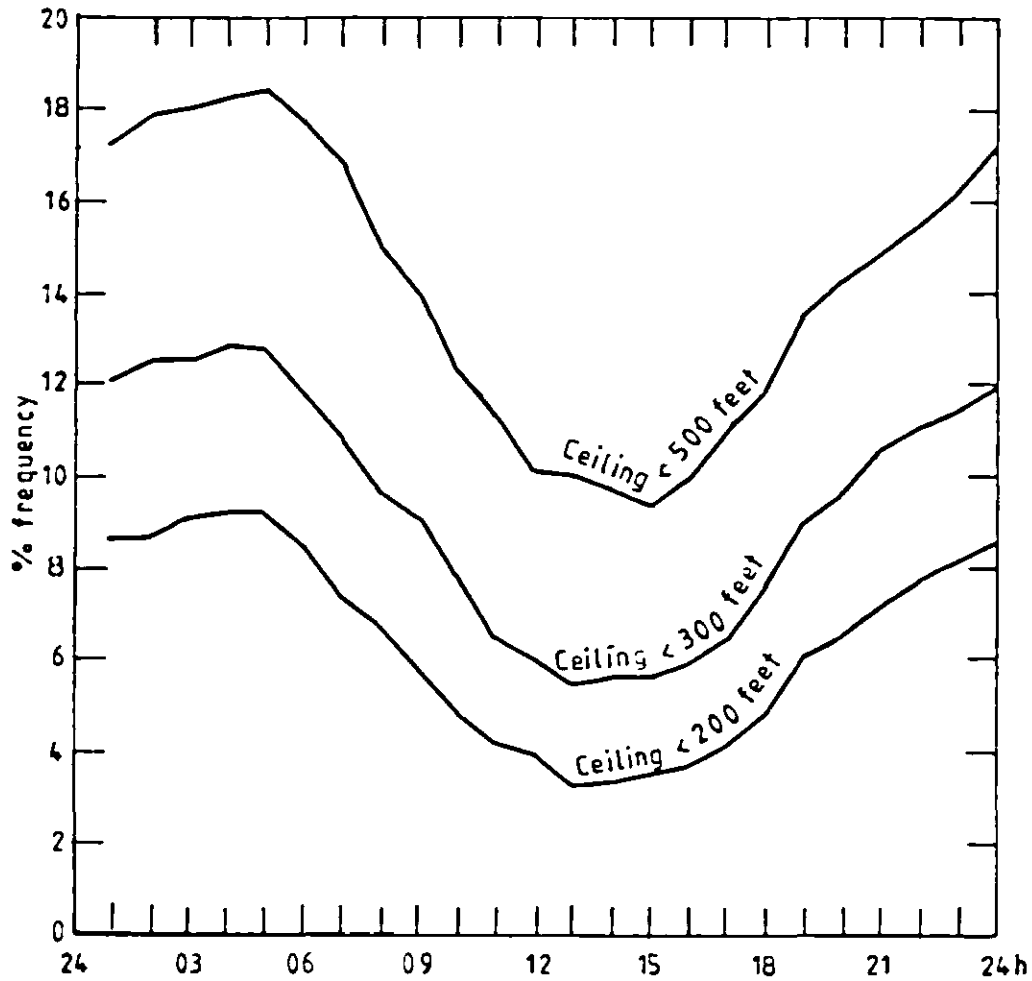


Fig. 15. Diurnal variations in percentage frequencies of occurrences of cloud ceiling below specified values, Cork Airport 1962 - 1974

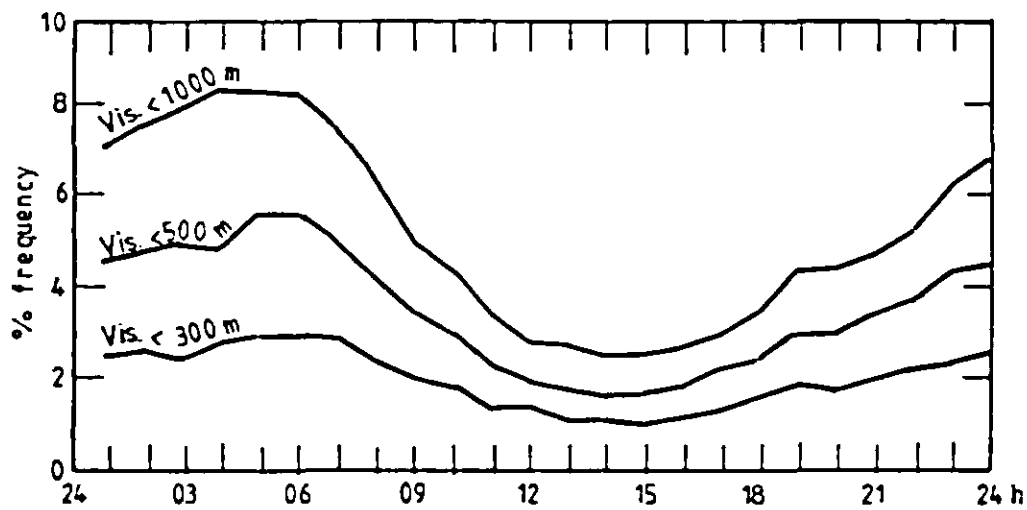


Fig. 16. Diurnal variations in percentage frequencies of occurrences of visibilities below specified values, Cork Airport, 1962 - 1974

Section VII - General

Table 6 gives monthly and annual values of specified elements over particular periods up to 1976. Some of these are incorporated in previous sections.

From hourly observations the frequency of various weather phenomena, for each hour, can be ascertained. The normal pattern of aircraft operations at Cork suggest the following summary:

Table 7.NO. OF HOURLY OBSERVATIONS (UP TO 1976) WITH SPECIFIED PHENOMENA.

PERIOD GMT	FOG	GENERAL PRECIPITATION	SNOW/OR RAIN/SNOW	THUNDERSTORM	HAIL
0900-2100	2977	20472	604	67	194
2100-0900	5937	18296	548	31	29

Table 6.

MONTHLY AND ANNUAL VALUES OF SPECIFIED ELEMENTS FOR CORK AIRPORT OVER PARTICULAR PERIODS ENDING 1976.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Period
Mean Daily Maximum Air Temperature (°C)	7.8	7.4	9.1	11.4	13.6	16.8	18.1	18.0	15.8	13.2	9.7	8.3	12.4	1962 to 1976
Mean Daily Minimum Air Temperature (°C)	2.9	2.5	3.0	4.4	6.6	9.4	10.9	10.8	9.4	7.7	4.2	3.4	6.3	" " "
Mean Monthly Maximum Air Temperature (°C)	11.0	11.4	13.4	16.3	17.7	22.4	22.5	22.2	19.5	16.5	13.5	12.0	23.5*	" " "
Mean Monthly Minimum Air Temperature (°C)	-3.2	-2.4	-2.3	-0.6	2.4	5.1	7.0	6.9	4.7	2.4	-1.2	-2.6	-4.3**	" " "
Absolute Maximum Air Temperature (°C)	12.3	13.5	15.2	20.5	20.7	25.7	24.6	27.5	23.5	19.0	15.1	13.3	27.5	" " "
Absolute Minimum Air Temperature (°C)	-6.6	-8.6	-6.1	-2.3	-0.1	2.4	4.8	4.9	2.3	0.4	-2.5	-5.4	-8.6	" " "
Mean Daily Relative Humidity (%) at 0h GMT	90	90	89	89	91	91	92	93	93	93	92	91	91	" " "
Mean Daily Relative Humidity (%) at 6h GMT	90	90	90	91	92	92	93	94	94	93	92	91	92	" " "
Mean Daily Relative Humidity (%) at 12h GMT	87	84	78	73	74	73	74	76	79	83	85	87	79	" " "
Mean Daily Relative Humidity (%) at 18h GMT	89	86	80	76	75	75	77	79	82	89	89	90	82	" " "
Mean Daily Duration of Bright Sunshine (hours)	1.59	2.54	3.90	5.35	5.86	6.25	5.47	5.31	4.12	2.88	2.35	1.76	3.95	1963 to 1976
Greatest duration of Bright Sunshine in a day	7.3	9.3	11.8	13.5	15.3	15.8	15.4	14.2	12.8	9.3	8.5	6.7	15.8	" " "
Mean number of days with no sun	12	8	6	4	2	2	1	2	4	7	8	11	67	" " "
Mean Rainfall Amount (mm.)	156	101	88	75	96	59	76	79	103	113	115	108	1169	1962 to 1976
Greatest Rainfall Amount in a day (mm.)	68.9	46.0	43.4	40.3	39.3	30.6	79.3	70.7	43.9	75.5	46.7	38.6	79.9	" " "
Mean number of days with rainfall ≥ 0.2mm.	20	18	16	15	18	13	14	16	17	18	19	19	203	" " "
Mean number of days with rainfall ≥ 1.0mm.	16	13	11	10	14	10	10	11	13	13	14	14	149	" " "
Mean number of days with snow or sleet	3.3	4.6	2.3	1.1	0.1	0.0	0.0	0.0	0.0	0.1	0.7	2.1	14.3	" " "
Mean number of days with hail	1.1	1.3	2.1	1.7	1.1	0.1	0.1	0.1	0.1	0.3	0.3	0.7	9.0	" " "
Mean number of days with thunder	0.4	0.2	0.1	0.3	0.4	0.3	0.7	0.7	0.5	0.3	0.1	0.1	4.1	" " "
Mean number of days with fog at 9h GMT	2.5	1.3	2.3	0.7	0.5	0.5	0.7	0.9	1.9	2.6	1.5	1.7	17.1	" " "
Mean number of days with air temperature < 0.0°C.	7	6	4	2	0.1	0.0	0.0	0.0	0.0	0.0	3	5	27	" " "
Mean Wind Speed (in knots)	12.8	11.8	11.5	11.1	10.6	9.1	8.4	8.8	9.6	10.6	10.7	11.9	10.6	" " "
Highest Wind Speed in a gust (in knots)	94	61	63	63	60	51	43	50	64	56	64	68	94	" " "
Mean number of days with gales ††	3.3	1.5	1.1	1.0	0.4	0.2	0.0	0.0	0.7	0.8	1.3	1.7	12.0	" " "

* Mean of highest each year. ** Mean of lowest each year.

† "Day" is taken as a period of 24 hours commencing at 06 GMT.

†† Mean Wind Speed 33.5 knots or more for a period of at least 10 minutes.