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BRITISH NORTH GREENLAND EXPEDITION 1952-54

CLIMATOLOGICAL TABLES

FOR THE SITE OF
THE EXPEDITION'S BASE AT BRITANNIA SØ AND
THE STATION ON THE INLAND-ICE "NORTHICE"

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SUMMARY

This paper consists mainly of climatological tables compiled from the meteorological observations made by the British North Greenland Expedition 1952—54 over a period of about 20 months at the two stations Britannia Sø (approx. 77° N. 23° W., alt. 231 m) and at “North-ice” (approx. 78° N. 39° W. alt 2345 m).

A general description is made of the site of the meteorological stations and of the surrounding topography. The tables for each meteorological element are accompanied by a brief description of the instruments used, the methods of calibration, corrections applied etc.

The tables include monthly means of the following meteorological elements: wind speed, temperature at each synoptic hour, maximum and minimum temperatures, relative humidity and vapour pressure, pressure at station level, amounts of cloud and low cloud at the synoptic hours. The extreme values of temperature, pressure, relative humidity and vapour pressure are also given.

For each month is given the total precipitation, the number of days of rain, snow and gale.

The frequency tables show the diurnal variation of wind, cloud amount and visibility, the variation of wind speed with direction, the frequency of maximum temperature, minimum temperature and wind chill in certain ranges and the variation of the state of ground.



Fig. 1. The arrows indicate the position of the Meteorological Station. Photo: Geodetic Institute. Denmark. Copyright.

INTRODUCTION

The British North Greenland Expedition 1952—54 spent two years carrying out scientific research in Dronning Louise Land, N.E. Greenland, and on the inland-ice to the west of it. The main base was set up at Britannia Sø in Northern Dronning Louise Land, and a second station, "Northice", was set up on the inland-ice to serve as a base for the parties carrying out geophysical and glaciological research on the ice sheet. Meteorological observations were made at both these stations, the station numbers 04125 and 04120 were allotted to them respectively, and synoptic reports were fed into the international network. The observations have been analysed and as a result the following tables of frequencies and monthly means have been compiled. A more general discussion of the meteorological investigations will be published later.

The authors wish to express their gratitude to the many members of the expedition who helped to make the observations, to those who have given advice and assistance in working up the results and to the Director of the Meteorological Office, London, for permission to publish this paper.

Index to Meteorological Elements.

1. Wind	Tables 1, 2, 3.
2. Temperature	Tables 4, 5, 6, 7.
3. Humidity	Tables 8, 9.
4. Wind Chill	Table 10.
5. Pressure	Table 11.
6. Cloud	Tables 12, 13, 14, 15.
7. Precipitation	Table 16.
8. Visibility	Tables 17, 18.
9. State of ground	Table 19.

Britannia Sø.

(Lat. $77^{\circ}09'03''$ N., long. $23^{\circ}36'13''$ W.: altitude of barometer cistern 229 m).

The main base of the B.N.G.E. was situated in a small bay at the foot of the hills on the north shore of Britannia Sø, in Dronning Louise Land. The hut was built by the mouth of a stream flowing between an old moraine and the hillside.

Behind the base hut, to the north, the land rises very steeply from lake level of 223 m to a summit of 998 m. Southwards from the hut the lake is at its widest, and nearly 3 Km. across to where the land rises, at first precipitously and then more gently to an altitude of 938 m.

Approximately $2\frac{1}{2}$ Km. to the west of the base hut is the western end of the lake into which flowed the Britannia Gletscher, a glacier some 18 Km. long and 8 Km. wide, extending S.S.E. wards from the Suzanne Bræ which, as part of the inland-ice, flows past the northern region of Dronning Louise Land.

To the west of the Britannia Gletscher is a mountainous ridge 1,500 to 2,000 m in altitude behind which lies the inland ice.

Approximately $2\frac{1}{2}$ Km. to the east of the base hut the lake narrows to a width of about 600 m. Beyond these narrows the lake widens all the way to its eastern end into which flows an arm of Storstrømmen, the glacier separating the northern half of Dronning Louise Land from the coastal area. To the east of Britannia Sø Storstrømmen is approximately 30 Km. wide and at an altitude of approximately 250 to 300 m.

It will be seen, therefore, that Britannia Sø is almost surrounded by high land, the two relatively low pieces of surrounding country being in the one case to the east across Storstrømmen, and in the other through the valley of the stream which drains the lake from the south side of the area east of the narrows. Further to the south this flows into the western lateral stream of Storstrømmen.

Fig. 1 is an aerial photograph from 4000 m looking approximately N.W. It shows all the main features described above, with Britannia Sø in the centre and Storstrømmen on the right. The site of the meteorological station is at the intersection of the arrows. Fig. 2 is a photograph of the station from the north, showing the screens and anemometer mast on the moraine.

The outdoor meteorological instruments were situated on top of the moraine running between the base hut and the north shore of the lake at a height of approximately 9.5 m above mid-winter lake level.



Fig. 2. The Meteorological Station at Britannia Sø, lat. $77^{\circ}09'03''$ N., long. $23^{\circ}36'13''$ W.

The two instrument screens and the anemometer mast were on the same ridge: from within 2 m of the base of the moraine fell steeply to the lake. The snowgauge stood on another moraine pimple nearby.

Snow settled in the depressions on the moraine but the highest points remained free of snow. The height of each instrument site proved advantageous in reducing the trouble caused by drifting snow as the screens were generally above the level of the low drift.

“Northice”.

(Lat. $78^{\circ}04'$ N., long. $38^{\circ}29'$ W.: altitude of barometer cistern 2,343 m).

At the position of “Northice” the inland ice is completely featureless and the slope indiscernible by eye. The maximum slope of the surface measured at a point near “Northice” was found to be $+9.1'$, or about 2.7×10^{-3} upwards towards true direction 240° . There is no ice-free land within 300 Km. of the station. The thickness of the ice sheet is approximately 2,500 m and the value of gravity at “Northice” is $982,240 \text{ cm/sec}^2$.

The meteorological instruments were set up about 40 m to the west (windward) side of the hut. The floor of the hut was laid about 1.5 m

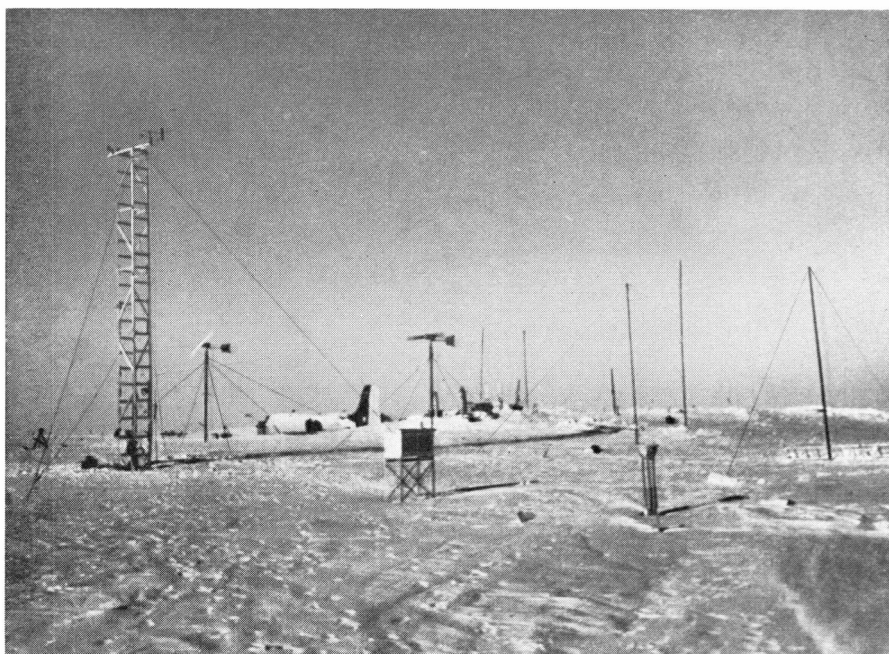


Fig. 3. The Meteorological Station "Northice" on the inland ice, lat. $78^{\circ}04'$ N. long. $38^{\circ}29'$ W.

below the general level of the snow surface when it was erected, but the hut soon drifted over and after the first four months it was completely buried.

There were no obstacles in the neighbourhood of the meteorological instruments. Fig. 3 is a general view of the station looking approximately N.E.

The party which set up the station in September and October, 1952 travelled by dog sledge and took with it two barometers (one of which was broken), an aneroid barometer and whirling psychrometer with a few thermometers. Otherwise all the meteorological instruments were dropped by parachute. Unfortunately a number of the parachutes failed to open and the instruments were smashed. There were therefore several deficiencies in the equipment of the station until replacements could be brought by surface transport in May, 1953.

Times of Observation.

The actual times of observation were 20 min. before the synoptic hours 0001, 0600, 1200 and 1800 G.M.T. at Britannia Sø and 30 min. before them at "Northice". This was so that the synoptic reports could be passed to the radio station at Danmarkshavn for inclusion in the

collective reports of Greenland stations. In these climatological tables these observations are, nevertheless, referred to as the observations for 00, 06, 12 and 18 hours G.M.T.

In addition climatological observations, e. g. maximum and minimum temperatures, precipitation, state of ground were made at 0900 and 2100 G.M.T. Extra observations, e. g. at 1500 were made when other duties permitted.

There were only two trained meteorologists available for the first year but these trained several members of the expedition to make observations so that when one of the meteorologists returned in 1953, there were sufficient men available to carry on the observations at both stations. Nevertheless, it was not always possible for observers to be available throughout the 24 hs. and the 0001 G.M.T. observation was omitted for some periods. At these times the values of pressure, temperature and humidity have been taken from the self-registering instruments, but no information is available for the elements observed visually.

On a very few occasions in the summer the visual observations at midnight are not available as most of the members then at the base were engaged on a special investigation on the glacier about 10 Km. away. In these cases—and they occurred in steady conditions—the values for 2100 have been used in completing the tables.

Except for midnight observations there was only one break in the observations, viz. those from 1200 10.1.54 to 1200 11.1.54 at “North-ice” as a result of a serious fire which broke out in the generator room and caused damage which had to be quickly repaired.

WIND

Britannia Sö.

A lattice mast was erected of 'Dexion' slotted angle and on a transverse arm were mounted

- (a) a M.O. pattern cup-counter anemometer, Mark II
- (b) a M.O. pattern cup-generator anemometer, Mark IB
- (c) a M.O. pattern remote indicating wind vane Mark IIIa.

The cups and vane were 4 m above ground level and 13.5 m above winter lake level.

All grease and oil which had been applied to the mechanism in U.K. was washed off and the moving parts lubricated with 'Aeroshell', low temperature oil or grease. This provided good lubrication even at the lowest temperatures experienced and the cup-counter anemometer on several occasions rotated at a rate of only two revolutions per minute when the wind was so light that it could not, even at the low temperature, be felt on the face.

The cup-counter anemometer was used for measuring wind speeds below 6 kt., the cup-generator for winds of 6 kt. or above. Checks were carried out periodically on both the anemometers by comparing their readings with those of a calibrated hand anemometer held at the same level: thirty spot readings were made at 10-sec. intervals and the mean of these readings of the hand anemometer was compared with those of the cup-generator anemometer and with the mean wind during the five-minute run of the counter anemometer. No significant difference was found in the readings of the anemometers. In addition the monthly mean-wind speeds computed from the wind speeds at the synoptic hours agree well with the mean given by the total run-of-wind measured by the cup-counter anemometer.

An experiment was carried out in April, 1953 to determine the effective height of the mast. Another cup-counter anemometer was set up on a mast drilled into the lake-ice about 200 m from the shore, the cups being 2 m above the lake surface. Over periods of 10 to 15 hs. the

run of wind D measured by the mast anemometer was compared with the run C measured by the 2-m anemometer on the lake. The ratio D/C showed quite a random variation with no close relation between D/C and the wind. The mean value of D/C was 1.09 with a standard deviation of 0.05. A previous comparison of the two anemometers showed that D read about 3 % higher than C, so the accepted ratio is 1.06, giving by Hellmann's formula an effective height of the anemometer of 3.2 m. The same formula gives 1.22 as the ratio of the wind at 10 m to that at 3.2 m. To obtain the 10 m wind therefore, wind speeds measured by the anemometer have been increased by 20 %.

"Northice".

The wind speed was measured by a cup-generator anemometer and the direction by a Dessyn remote indicating wind vane. During the first winter these were erected on a mast 2 m high and to obtain the wind at 10 m the measured wind speed has been increased by 30 %.

On the 18th April, 1953, the instruments were set-up on a lattice mast at a height of 10 m above the surface.

The cup generator anemometer was satisfactorily checked against a calibrated hand anemometer by the same method as that used at Britannia Sö. On return to the U.K. the hand anemometer was rechecked satisfactorily in the wind tunnel at the Meteorological Office, Harrow.

For most of the time, at a height of 10 m, the drifting snow did not settle on the cups of the anemometer, but very occasionally snow particles did partially fill the cups and on those occasions the measured wind speeds may be subject to slight error.

Notes on the Tables.

Tables 1(B) and 1(N) give the mean wind speeds for each month at each time of observation, the number of gales per month, and the percentage number of synoptic observations of winds of gale force. A day of gale is recorded when at any time between 0001 and 2359 a mean wind speed of 34 knots or more or a gust of 45 knots or more is recorded. It is possible that a very few days of gale were missed as no self-recording anemometer was available.

Tables 2(B) and 2(N) show the diurnal variation of wind speed and direction.

Tables 3(B) and 3(N) show the variation of speed with direction at each hour of observation in each month.

Table I (B)
Britannia Sø

Table I (N)
“Northice”

G.M.T.	Mean	Wind	Speed	in Kt.	Days of Gale	Percentage Observations with Gale	Mean	Wind	Speed	in Kt.	Days of Gale	Percentage Observations with Gale
	0	6	12	18			0	6	12	18		
Nov. 52	..	17.6	18.7	16.9	13	17	17.9	19.1	17.6	16.8	3	4
Dec. 52	..	14.2	12.7	10.7	8	6	14.5	13.6	14.5	15.6	0	0
Jan. 53	..	17.2	16.1	15.9	12	15	15.3	13.3	12.2	13.6	0	0
Feb....	..	13.4	11.6	11.6	8	8	14.4	13.5	13.1	13.8	0	0
Mar....	..	16.2	15.6	13.8	10	13	13.1	14.6	14.8	14.4	1	2
April ..	..	22.1	23.5	21.2	11	19	15.6	15.4	15.0	14.0	1	1
May ...	..	12.8	15.9	15.7	1	0	..	13.8	14.0	13.4	1	0
June ..	..	8.9	12.2	12.0	0	0	..	10.4	11.0	11.8	0	0
July ...	12.3	11.9	14.9	17.3	1	1	..	12.7	14.5	14.0	0	0
Aug. ..	12.1	13.6	13.3	14.6	2	1	..	15.6	15.1	15.1	1	1
Sept. ..	13.6	14.4	14.9	15.9	1	3	..	13.5	13.6	14.4	0	0
Oct. ...	19.2	18.2	16.5	16.9	9	10	..	15.0	14.8	14.7	0	0
Nov. ..	16.8	17.2	19.9	20.5	8	16	..	14.4	15.5	15.8	0	0
Dec. 53	15.3	14.9	16.3	17.0	10	16	15.6	15.2	15.2	16.1	1	1
Jan. 54	14.7	12.6	11.9	12.7	9	11	18.5	18.6	17.1	17.2	1	1
Feb....	11.7	12.5	14.5	12.1	8	13	17.3	18.6	18.3	18.5	0	0
Mar....	12.5	12.5	8.9	11.1	6	6	16.9	17.3	17.2	16.9	0	0
April ..	10.8	11.7	12.9	13.9	2	1	15.6	15.5	15.0	14.5	1	1
May ...	..	12.3	14.5	16.4	0	0	10.3	11.1	9.8	8.6	0	0
June ..	..	10.7	15.3	13.9	0	0	8.7	9.8	9.1	8.8	0	0
July ...	12.5	13.3	16.1	14.8	0	0	..	..	..	..	..	..

Table 2 (B)

Britannia Sø
Diurnal Variation of Wind Speed and Direction

Number of Observations of:—														
Month	G.M.T.	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
		8 or more	6-7	4-5	1-3	Calm								
		34 or more	22-33	11-21	1-10	0								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
November 1952	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	6	7	6	6	5	2	1	..	1	..	..	3	18
	12	5	9	6	8	2	..	2	4	1	..	1	4	16
	18	4	7	7	8	4	..	1	2	1	1	1	4	16
	Total	15	23	19	22	11	2	4	6	3	1	2	11	50
December 1952	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	3	8	4	6	10	1	..	3	..	1	..	2	14
	12	3	6	6	8	8	1	2	2	1	..	..	4	13
	18	..	8	5	8	10	2	..	5	..	..	..	1	13
	Total	6	22	15	22	28	4	2	10	1	1	..	7	40
January 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	4	11	3	6	7	..	2	1	..	1	1	4	15
	12	4	9	4	7	7	..	2	3	..	..	1	3	15
	18	6	7	3	8	7	4	..	2	1	1	..	6	10
	Total	14	27	10	21	21	4	4	6	1	2	2	13	40
February 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	3	6	5	6	8	..	..	2	..	..	..	7	11
	12	1	7	4	11	5	2	1	2	3	..	1	6	8
	18	3	2	6	8	9	..	..	3	1	..	1	2	12
	Total	7	15	15	25	22	2	1	7	4	..	2	15	31
March 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	5	11	..	6	9	3	..	2	1	..	2	8	6
	12	5	6	7	9	4	4	2	4	..	..	..	7	10
	18	2	6	10	9	4	3	1	3	1	..	1	7	11
	Total	12	23	17	24	17	10	3	9	2	..	3	22	27
April 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	5	16	3	3	3	2	1	2	..	..	..	5	17
	12	8	10	9	2	1	2	..	2	..	1	..	4	20
	18	4	13	9	3	1	2	..	7	1	..	..	6	13
	Total	17	39	21	8	5	6	1	11	1	1	..	15	50
May 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	9	10	3	9	4	..	4	..	..	..	5	9
	12	..	10	13	4	4	2	1	7	2	..	..	4	11
	18	..	12	10	6	3	2	1	10	1	..	1	10	3
	Total	..	31	33	13	16	8	2	21	3	..	1	19	23
June 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	6	5	8	11	1	..	6	1	..	..	4	7
	12	..	3	17	5	5	..	2	10	2	..	1	6	4
	18	..	2	18	6	4	2	1	13	..	..	..	8	2
	Total	..	11	40	19	20	3	3	29	3	..	1	18	13

Table 2 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
July 1953	00	..	5	15	8	3	3	1	8	1	..	1	6	8
	06	1	6	10	5	9	2	1	4	..	..	..	1	14
	12	..	9	11	9	2	..	1	6	2	..	2	10	8
	18	..	13	11	5	2	1	..	13	1	..	..	9	5
	Total	1	33	47	27	16	6	3	31	4	..	3	26	35
August 1953	00	..	6	12	8	5	1	1	3	..	..	2	6	13
	06	1	7	12	4	7	2	1	4	..	..	..	7	10
	12	..	5	15	10	1	..	..	6	2	1	..	11	10
	18	..	9	11	11	..	..	1	8	3	1	1	10	7
	Total	1	27	50	33	13	3	3	21	5	2	3	34	40
September 1953	00	1	7	9	10	3	1	2	4	2	..	1	7	10
	06	1	6	14	7	2	4	..	4	1	1	..	4	14
	12	..	5	18	6	1	..	..	8	1	1	..	8	11
	18	1	6	18	5	..	1	..	8	2	..	..	11	8
	Total	3	24	59	28	6	6	2	24	6	2	1	30	43
October 1953	00	4	11	7	9	..	4	..	5	1	..	1	8	12
	06	5	8	7	9	2	2	1	5	..	..	..	7	14
	12	2	10	8	10	1	1	..	2	1	..	5	10	11
	18	2	10	10	9	..	2	..	6	..	..	1	10	12
	Total	13	39	32	37	3	9	1	18	2	..	7	35	49
November 1953	00	3	10	5	9	3	1	1	1	..	1	..	5	18
	06	4	11	4	8	3	5	2	..	1	..	2	6	11
	12	7	8	6	8	1	2	1	3	1	..	..	9	13
	18	5	10	7	7	1	3	1	2	1	..	1	6	15
	Total	19	39	22	32	8	11	5	6	3	1	3	26	57
December 1953	00	4	7	5	11	4	4	1	4	..	2	1	4	11
	06	6	3	6	12	4	1	..	4	..	2	1	8	11
	12	6	7	5	10	3	7	..	2	..	..	2	5	12
	18	4	9	5	12	1	7	1	5	1	..	..	6	10
	Total	20	26	21	45	12	19	2	15	1	4	4	23	44
January 1954	00	5	6	4	13	3	3	1	6	1	1	2	3	11
	06	3	5	7	9	7	3	2	5	1	1	..	6	6
	12	1	6	9	11	4	2	..	4	1	..	..	9	11
	18	5	3	4	16	3	1	2	7	..	..	3	5	10
	Total	14	20	24	49	17	9	5	22	3	2	5	23	38
February 1954	00	4	3	4	16	1	1	4	2	..	..	2	6	11
	06	3	6	2	10	7	..	1	6	..	..	..	5	9
	12	4	7	3	13	1	6	3	4	1	2	..	2	9
	18	3	6	2	17	..	3	3	3	2	..	1	7	9
	Total	14	22	11	56	9	10	12	15	3	2	3	20	38
March 1954	00	2	9	2	16	2	5	1	3	1	..	1	10	8
	06	2	10	1	15	3	6	1	2	1	1	..	10	7
	12	1	5	4	19	2	4	1	3	2	3	1	9	6
	18	2	7	3	19	..	6	..	1	4	4	..	9	7
	Total	7	31	10	69	7	21	3	9	8	8	2	38	28

Table 2 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
April 1954	00	..	7	5	17	1	1	3	5	..	1	5	4	10
	06	..	7	9	9	5	1	2	5	1	..	1	5	10
	12	1	7	7	13	2	5	..	6	2	2	3	5	5
	18	..	8	9	13	..	1	1	11	3	..	2	4	8
	Total	1	29	30	52	8	8	6	27	6	3	11	18	33
May 1954	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	8	9	10	4	4	1	7	2	1	..	7	5
	12	..	8	14	9	..	2	..	13	1	1	3	5	6
	18	..	6	21	4	..	1	1	18	..	..	..	8	3
	Total	..	22	44	23	4	7	2	38	3	2	3	20	14
June 1954	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	4	13	11	2	3	2	8	3	..	2	5	5
	12	..	8	16	5	1	2	1	10	1	1	1	8	5
	18	..	5	14	11	..	..	2	8	2	1	..	13	4
	Total	..	17	43	27	3	5	5	26	6	2	3	26	14
July 1954	00	..	5	15	11	..	7	..	4	1	1	1	9	8
	06	..	3	19	8	..	6	..	2	1	..	..	9	2
	12	..	9	13	9	..	5	..	2	2	..	2	13	7
	18	..	5	17	9	..	1	1	6	3	1	..	10	9
	Total	..	22	64	37	..	19	1	14	7	2	3	41	26

Table 2 (N)

“Northice”

Diurnal Variation of Wind Speed and Direction

Number of Observations of:—														
Month	G.M.T.	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
		8 or more	6-7	4-5	1-3	Calm								
		34 or more	Velocity in knots											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
November 1952	00	1	10	12	7	..	..	..	..	..	..	1	27	2
	06	2	10	13	5	..	..	..	..	..	..	2	28	..
	12	1	8	16	5	..	..	..	..	..	1	1	27	1
	18	1	8	13	8	..	..	..	..	..	1	4	24	1
	Total	5	36	54	25	..	..	..	..	..	2	8	106	4
December 1952	00	..	3	22	6	..	..	..	..	..	..	..	29	2
	06	..	3	19	9	..	..	..	..	..	..	..	29	2
	12	..	3	21	7	..	..	..	..	..	..	..	27	4
	18	..	5	20	6	..	..	..	..	..	..	..	29	2
	Total	..	14	82	28	..	..	..	..	..	..	..	114	10
January 1953	00	..	4	19	8	..	..	..	2	..	2	..	23	4
	06	..	3	18	10	..	..	1	1	1	..	3	23	2
	12	..	1	20	8	2	1	..	2	..	..	2	23	1
	18	..	2	21	6	2	..	..	2	1	..	2	23	1
	Total	..	10	78	32	4	1	1	7	2	2	7	92	8

Table 2 (N) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
February 1953	00	..	5	13	10	..	1	..	..	..	..	3	24	..
	06	..	2	15	11	..	1	..	..	..	1	4	22	..
	12	..	4	14	9	1	..	..	..	..	..	3	24	..
	18	..	4	15	8	1	..	..	..	..	..	2	25	..
	Total	..	15	57	38	2	2	..	..	..	1	12	95	..
March 1953	00	..	6	13	11	1	..	..	..	..	1	4	18	7
	06	1	6	12	10	2	..	..	..	..	..	6	19	4
	12	1	3	15	12	..	..	..	..	..	..	3	23	5
	18	1	5	13	12	..	..	1	..	..	1	4	18	7
	Total	3	20	53	45	3	..	1	..	..	2	17	78	23
April 1953	00	..	3	22	5	..	..	..	..	..	..	1	20	9
	06	..	2	24	4	..	..	..	..	..	..	..	22	8
	12	..	2	24	4	..	..	..	..	..	..	..	23	7
	18	1	1	19	9	..	..	..	..	..	..	1	22	7
	Total	1	8	89	22	..	..	..	..	..	..	2	87	31
May 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	..	26	5	..	1	..	..	..	..	..	28	2
	12	..	2	23	6	..	1	..	..	..	..	1	24	5
	18	..	1	22	7	1	1	..	1	..	..	2	21	5
	Total	..	3	71	18	1	3	..	1	..	..	3	73	12
June 1953	00	..	..	..	..	..	..	..	2	..	2	..	12	..
	06	..	..	18	11	1	..	..	..	1	2	10	12	2
	12	..	1	15	12	2	1	..	1	2	2	8	10	4
	18	..	1	16	11	2	2	..	..	2	6	7	6	5
	Total	..	2	49	34	5	3	..	3	5	10	25	28	11
July 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	..	25	5	1	..	1	..	..	..	3	21	5
	12	..	2	25	4	..	..	..	2	..	..	4	21	4
	18	..	1	28	2	..	..	..	1	1	1	1	19	8
	Total	..	3	78	11	1	..	1	3	1	1	8	61	17
August 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	4	23	4	..	..	..	..	..	..	2	26	3
	12	..	4	22	4	1	..	..	..	..	..	..	27	3
	18	1	2	22	4	2	..	..	..	..	..	2	19	8
	Total	1	10	67	12	3	..	..	..	..	..	4	72	14
September 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	..	23	7	..	1	1	..	..	..	2	23	3
	12	..	..	22	8	..	1	..	..	..	1	1	21	6
	18	..	1	25	4	..	..	..	..	1	..	1	22	6
	Total	..	1	70	19	..	2	1	..	1	1	4	66	15
October 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	2	23	6	..	..	..	..	1	..	4	24	2
	12	..	4	21	6	..	..	..	..	..	1	4	22	4
	18	..	3	22	6	..	..	1	..	..	2	2	23	3
	Total	..	9	66	18	..	..	1	..	1	3	10	69	9

Table 2 (N) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
November 1953	00	..	..	..	..	..	..	..	..	..	..	..	..	..
	06	..	1	26	3	..	1	1	..	1	1	3	19	4
	12	..	3	24	3	..	..	1	..	1	1	4	20	3
	18	..	4	22	4	..	1	..	..	..	..	6	18	5
	Total	..	8	72	10	..	2	2	..	2	2	13	57	12
December 1953	00	..	2	25	4	..	2	..	1	1	..	3	22	2
	06	..	2	23	6	..	1	..	..	2	2	1	22	3
	12	..	1	25	5	..	..	..	..	2	..	3	23	3
	18	1	1	27	2	..	1	..	1	..	1	4	23	1
	Total	1	6	100	17	..	4	..	2	5	3	11	90	9
January 1954	00	..	6	22	2	..	..	..	1	..	1	8	19	1
	06	1	7	19	3	..	..	..	..	1	..	7	21	1
	12	..	6	20	3	..	..	..	..	1	..	7	19	2
	18	..	5	23	2	..	..	1	..	..	2	8	19	..
	Total	1	24	84	10	..	..	1	1	2	3	30	78	4
February 1954	00	..	3	23	2	..	..	1	1	1	3	6	15	1
	06	..	6	21	1	..	..	..	3	1	1	8	15	..
	12	..	6	21	1	..	..	1	..	2	3	8	14	..
	18	..	6	22	..	..	..	..	1	1	4	9	13	..
	Total	..	21	87	4	..	..	2	5	5	11	31	57	1
March 1954	00	..	2	27	2	..	..	..	..	..	..	5	25	1
	06	..	2	27	1	..	..	..	..	..	..	3	27	..
	12	..	4	26	..	..	..	..	..	..	..	4	26	..
	18	..	2	27	2	..	..	..	..	..	..	3	28	..
	Total	..	10	107	5	..	..	..	..	..	..	15	106	1
April 1954	00	..	2	25	3	..	..	..	..	..	..	2	24	4
	06	..	4	19	7	..	..	..	..	..	..	1	27	2
	12	1	5	15	9	..	..	..	..	1	..	3	23	3
	18	..	3	20	7	..	..	..	..	1	..	2	24	3
	Total	1	14	79	26	..	..	..	..	2	..	8	98	12
May 1954	00	..	..	18	13	..	..	..	..	..	..	8	21	2
	06	..	..	17	14	..	..	..	..	..	..	7	21	3
	12	..	1	12	18	..	..	1	..	..	..	8	20	2
	18	..	2	5	24	..	..	1	..	..	..	10	16	4
	Total	..	3	52	69	..	..	2	..	..	..	33	78	11
June 1954	00	..	..	8	20	2	1	..	1	6	2	4	10	4
	06	..	..	13	16	1	..	..	2	4	1	2	16	4
	12	..	..	11	18	1	2	2	..	3	3	3	15	1
	18	..	..	11	18	1	1	1	2	4	3	5	9	4
	Total	..	..	43	72	5	4	3	5	17	9	14	50	13

Table 3 (B)

Britannia Sø

Variation of Wind Speed with Direction

November 1952

Number of observations of:—																
	Beaufort Force	Knots	350 to 010	020 to 040	050 to 070	080 to 100	110 to 130	140 to 160	170 to 190	200 to 230	230 to 250	260 to 280	290 to 310	320 to 340	All Drms.	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0600 G.M.T.	1	1-3	2	1	..	..	..	1	..	..	..	..	1	..	5	5
	2	4-6	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	..	..	..	..	0	..
	4	11-16	..	..	..	..	..	..	..	..	..	1	2	1	4	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	2	..	2	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	2	1	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	3	4	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	5	1	6	..
1200 G.M.T.	1	1-3	..	1	1	1	..	..	..	..	..	1	..	..	4	2
	2	4-6	..	1	..	1	1	..	..	..	..	..	1	..	4	..
	3	7-10	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	4	11-16	..	..	..	..	1	..	..	..	..	..	1	..	2	..
	5	17-21	..	..	..	..	..	..	..	..	..	3	..	..	3	..
	6	22-27	..	..	..	..	..	..	..	..	..	4	2	2	6	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	1	1	3	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	2	3	5	..
1800 G.M.T.	1	1-3	..	1	..	2	..	..	..	..	..	..	2	..	5	4
	2	4-6	..	..	..	..	1	..	..	1	..	..	1	..	3	..
	3	7-10	..	..	..	..	..	..	..	..	..	..	..	..	0	..
	4	11-16	..	..	..	..	..	..	..	..	..	..	..	1	1	..
	5	17-21	..	..	..	..	..	..	..	..	1	..	2	3	6	..
	6	22-27	..	..	..	..	..	..	..	..	..	2	..	2	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	2	3	5	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	3	1	4	..	..
December 1952																
0600 G.M.T.	1	1-3	..	..	..	1	..	..	1	..	..	..	..	..	2	10
	2	4-6	1	..	..	2	..	..	..	..	..	..	..	..	3	..
	3	7-10	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	4	11-16	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	3	..	3	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	5	..	5	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	2	1	3	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	3	..	3	..
1200 G.M.T.	1	1-3	1	..	..	1	..	1	..	..	..	2	1	..	6	8
	2	4-6	..	..	..	1	..	..	..	..	..	..	..	..	1	..
	3	7-10	..	1	..	..	..	..	..	..	..	..	..	..	1	..
	4	11-16	..	..	..	..	..	..	..	..	..	1	..	1	2	..
	5	17-21	..	..	1	..	..	..	..	..	..	..	2	1	4	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	2	1	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	2	3	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	2	..	3	..
1800 G.M.T.	1	1-3	2	..	..	2	..	..	..	..	..	..	..	..	4	10
	2	4-6	..	..	..	2	..	..	..	..	1	..	..	..	3	..
	3	7-10	..	..	1	..	..	..	..	..	..	..	..	..	1	..
	4	11-16	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	3	1	4	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	2	2	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	2	2	4	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Table 3 (B) (cont.)

Table 3 (B) (cont.)														January 1953			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0600 G.M.T.	1	1-3	..	..	1	..	..	..	1	..	..	..	1	..	3	7	
	2	4-6	..	..	..	1	..	..	..	..	..	..	1	..	2	..	
	3	7-10	..	..	..	..	..	..	..	..	1	..	..	..	1	..	
	4	11-16	..	..	..	..	..	..	..	..	..	1	..	..	1	..	
	5	17-21	..	..	..	..	..	..	..	..	..	..	2	..	2	..	
	6	22-27	..	1	..	..	..	..	..	..	..	1	3	2	7	..	
	7	28-33	..	..	..	..	..	..	..	..	..	1	2	1	4	..	
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	4	..	4	..	
1200 G.M.T.	1	1-3	..	1	..	1	..	..	..	..	..	..	1	1	4	7	
	2	4-6	..	..	..	1	..	..	..	..	1	..	..	..	2	..	
	3	7-10	..	..	..	..	..	..	..	..	1	..	..	..	1	..	
	4	11-16	..	..	..	1	..	..	..	..	..	..	..	..	1	..	
	5	17-21	..	..	..	..	..	..	..	..	..	..	3	..	3	..	
	6	22-27	..	1	..	..	..	..	..	..	..	1	3	..	5	..	
	7	28-33	..	..	..	..	..	..	..	..	..	..	3	1	4	..	
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	3	1	4	..	
1800 G.M.T.	1	1-3	..	..	..	2	..	1	1	..	..	..	2	..	6	7	
	2	4-6	1	..	..	..	..	..	..	..	..	..	1	..	2	..	
	3	7-10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	4	11-16	..	..	..	..	..	..	..	..	..	..	1	..	1	..	
	5	17-21	..	..	..	..	..	..	..	..	..	1	1	..	2	..	
	6	22-27	1	..	..	..	..	..	..	..	..	..	3	..	4	..	
	7	28-33	..	..	..	..	..	..	..	..	..	..	3	..	3	..	
	8 or over	34 or over	1	..	..	..	..	..	..	..	..	..	4	1	6	..	

February 1953

0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	2	..	2	8	
	2	4-6	..	..	..	1	..	..	..	..	1	1	..	3	..	
	3	7-10	..	..	..	..	..	..	..	..	1	..	..	1	..	
	4	11-16	..	..	..	1	..	..	..	..	..	3	..	4	..	
	5	17-21	..	..	..	..	..	..	..	..	..	1	..	1	..	
	6	22-27	..	..	..	..	..	..	..	..	..	1	2	3	..	
	7	28-33	..	..	..	..	..	..	..	..	..	2	1	3	..	
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	2	1	3	..	
1200 G.M.T.	1	1-3	1	..	2	..	2	..	..	..	..	1	1	..	7	5
	2	4-6	..	..	1	..	..	..	..	..	1	1	..	3	..	
	3	7-10	..	..	..	..	1	..	..	..	..	..	..	1	..	
	4	11-16	..	..	..	..	..	..	..	..	1	..	1	..	2	..
	5	17-21	..	..	..	..	..	..	..	..	..	2	..	2	..	
	6	22-27	..	..	..	..	..	..	..	..	..	3	1	4	..	
	7	28-33	..	..	..	..	..	..	..	..	..	1	2	3	..	
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	..	1	..	
1800 G.M.T.	1	1-3	..	..	..	1	..	1	..	..	..	1	1	..	4	9
	2	4-6	..	..	..	1	..	..	..	..	..	1	..	2	..	
	3	7-10	..	..	1	..	..	..	..	..	..	1	..	..	2	..
	4	11-16	..	..	..	..	..	..	..	..	..	..	..	..	..	
	5	17-21	..	..	..	..	..	..	..	..	1	..	5	..	6	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	..	..	..	
	7	28-33	..	..	..	..	..	..	..	..	..	2	..	2	..	
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	2	1	3	..	

March 1953

0600 G.M.T.	1	1-3	..	..	..	..	1	..	..	1	..	..	..	2	9	
	2	4-6	..	..	..	1	..	..	..	1	..	..	..	2	..	
	3	7-10	..	..	..	1	..	..	..	1	..	..	..	2	..	
	4	11-16	..	..	..	..	..	..	..	..	..	..	..	..	..	
	5	17-21	..	..	..	..	..	..	..	..	..	..	..	..	..	
	6	22-27	..	..	..	..	..	..	..	..	2	5	1	8	..	
	7	28-33	..	..	..	..	..	..	..	..	2	..	1	3	..	
	8 or over	34 or over	1	..	..	..	..	..	..	..	..	1	3	5	..	

2*

Table 3 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1200 G.M.T.	1	1-3	1	..	..	..	..	..	..	..	..	1	..	..	2	4	
	2	4-6	..	1	..	3	..	..	..	..	..	1	1	..	6	..	
	3	7-10	..	..	..	1	..	..	..	..	..	..	..	..	1	..	
	4	11-16	1	..	1	..	..	..	..	..	..	2	1	..	5	..	
	5	17-21	..	..	..	..	..	..	..	..	..	1	1	..	2	..	
	6	22-27	..	..	..	..	..	..	..	..	..	..	1	2	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	1	1	3	..	
	8 or over	34 or over	2	..	..	..	..	..	..	..	..	..	1	2	5	..	
1800 G.M.T.	1	1-3	1	..	..	..	..	..	..	..	1	..	2	..	4	4	
	2	4-6	..	..	1	..	..	..	..	..	..	1	1	1	4	..	
	3	7-10	..	..	1	..	..	..	..	..	..	..	..	..	1	..	
	4	11-16	..	..	..	2	..	1	..	..	..	2	2	..	7	..	
	5	17-21	..	..	..	..	..	..	..	..	..	..	3	..	3	..	
	6	22-27	..	1	..	..	..	..	..	..	..	..	2	..	3	..	
	7	28-33	1	..	..	..	..	..	..	..	..	..	1	1	3	..	
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	2	..	2	..	

April 1953

[illegible]

May 1953

[illegible]

Table 3 (B) (cont.)

[illegible]

June 1953

[illegible][illegible][illegible]

July 1953

[illegible]

0600 G.M.T.	{	1	1-3	..	..	..	..	..	..	..	..	1	..	1	9	
		2	4-6	..	1	..	..	..	..	..	..	2	..	3	..	
		3	7-10	..	..	..	1	..	..	..	..	..	..	1	..	
		4	11-16	..	..	..	2	1	..	..	..	..	1	..	4	..
		5	17-21	..	1	..	..	..	..	..	..	..	2	3	6	..
		6	22-27	..	..	..	..	..	..	..	..	..	2	3	5	..
		7	28-33	..	..	..	..	..	..	..	..	..	1	..	1	..
		8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	..	1	..

1200 G.M.T.	{	1	1-3	..	..	..	..	..	1	..	1	..	1	..	..	3	2
		2	4-6	..	..	..	1	..	..	..	..	1	..	..	2	..	
		3	7-10	..	1	..	1	..	..	..	1	1	..	..	4	..	
		4	11-16	..	..	..	3	2	..	..	..	..	..	..	5	..	
		5	17-21	..	..	..	..	..	..	..	..	1	4	1	6	..	
		6	22-27	..	..	..	..	..	..	1	..	2	2	2	7	..	
		7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	
		8 or over	34 or over	..	..	..	..	..	..	..	..	..	2	..	..	..	

Table 3 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1800 G.M.T.	1	1-3	..	..	1	1	..	1	..	..	..	..	..	..	3	2
	2	4-6	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	3	7-10	..	..	..	1	..	..	..	..	..	..	..	..	1	..
	4	11-16	..	..	..	1	..	..	..	..	..	2	..	..	3	..
	5	17-21	1	..	..	5	..	..	..	..	..	..	2	..	8	..
	6	22-27	..	..	..	3	1	..	..	..	..	2	2	1	9	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	4	..	4	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
August 1953																
0000 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	1	4	1	6	5
	2	4-6	..	..	..	..	..	..	..	1	..	..	..	..	1	..
	3	7-10	..	..	..	1	..	..	..	..	..	..	..	..	1	..
	4	11-16	..	..	1	1	..	..	..	..	1	1	1	1	6	..
	5	17-21	..	..	..	1	..	..	..	..	..	..	4	1	6	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	2	2	5	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	1	1	2	7
	2	4-6	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	3	7-10	..	..	..	1	..	..	..	..	..	..	..	..	1	..
	4	11-16	..	..	1	3	..	..	..	..	..	..	3	..	7	..
	5	17-21	..	..	..	..	..	..	..	..	..	1	4	..	5	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	3	2	5	..
	7	28-33	1	..	..	..	..	..	..	..	..	..	..	1	2	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	1	1	..
1200 G.M.T.	1	1-3	..	..	..	..	2	..	..	1	1	..	..	..	4	1
	2	4-6	..	..	..	..	..	..	..	..	..	2	1	..	3	..
	3	7-10	..	..	..	1	..	..	..	..	..	1	..	1	3	..
	4	11-16	..	..	..	3	1	..	..	..	..	..	2	..	6	..
	5	17-21	..	..	..	..	1	..	..	..	..	2	5	1	9	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	3	1	5	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	2	..	..	..	..	1	..	..	3	..
	2	4-6	..	..	1	..	..	..	..	..	1	1	..	..	3	..
	3	7-10	..	..	1	1	1	..	..	..	..	2	..	..	5	..
	4	11-16	..	..	..	2	1	..	..	..	..	..	1	..	4	..
	5	17-21	..	..	..	2	..	..	..	..	..	2	1	2	7	..
	6	22-27	..	..	..	2	..	..	..	..	..	1	5	1	9	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
September 1953																
0000 G.M.T.	1	1-3	..	..	3	1	1	..	..	..	..	1	..	..	6	3
	2	4-6	..	..	..	..	..	1	..	1	..	1	..	..	3	..
	3	7-10	..	..	..	1	..	..	..	..	..	..	..	..	1	..
	4	11-16	..	..	..	1	..	..	..	..	1	1	1	..	4	..
	5	17-21	..	..	..	..	..	..	..	..	..	2	2	1	5	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	1	1	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	3	1	5	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	1	..	1	..
0600 G.M.T.	1	1-3	2	..	..	..	1	..	..	..	..	..	..	1	4	2
	2	4-6	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	3	7-10	..	..	..	..	1	..	..	..	..	1	..	..	2	..
	4	11-16	..	..	2	1	..	..	..	..	..	1	1	3	8	..
	5	17-21	..	..	..	..	..	..	..	1	..	..	..	5	6	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	1	2	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	1	2	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	1	..	1	..

Table 3 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1200 G.M.T.	1	1-3	..	..	..	..	1	..	1	..	..	..	..	..	2	1
	2	4-6	..	..	..	..	..	..	..	..	..	1	1	1	3	..
	3	7-10	..	..	..	..	1	..	..	..	..	..	..	..	1	..
	4	11-16	..	..	2	3	..	..	..	..	..	..	2	..	7	..
	5	17-21	..	..	..	2	..	..	..	..	..	3	3	3	11	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	3	1	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	..	1	..	..	1	1	..	..	3	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	1	..	..	..	..	..	..	1	2	..
	4	11-16	..	..	..	8	..	..	..	..	..	1	2	..	11	..
	5	17-21	..	..	..	..	..	..	..	..	..	1	3	3	7	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	5	..	6	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	..	..	1	..

October 1953

0000 G.M.T.	1	1-3	..	..	..	1	1	..	..	..	..	1	1	..	4	..
	2	4-6	..	..	..	..	2	..	..	..	..	..	..	..	2	..
	3	7-10	..	..	..	1	..	..	..	..	1	..	1	..	3	..
	4	11-16	..	..	..	1	..	..	..	..	1	..	..	1	3	..
	5	17-21	..	..	..	..	..	..	..	..	..	1	3	..	4	..
	6	22-27	..	..	..	..	..	..	..	..	1	1	1	4	7	..
	7	28-33	1	..	..	..	..	..	..	..	..	..	2	1	4	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	1	3	4	..
0600 G.M.T.	1	1-3	..	..	..	1	1	..	..	..	1	..	..	1	4	2
	2	4-6	..	..	..	1	1	..	..	..	..	..	..	..	2	..
	3	7-10	..	..	..	1	..	..	..	..	..	1	1	..	3	..
	4	11-16	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	5	17-21	..	2	..	..	..	..	..	..	..	2	2	2	6	..
	6	22-27	..	..	..	..	..	..	..	..	..	2	1	2	5	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	2	3	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	3	2	5	..
1200 G.M.T.	1	1-3	1	..	..	1	1	..	..	1	2	..	..	..	6	1
	2	4-6	..	..	..	..	..	..	..	..	1	1	..	..	2	..
	3	7-10	..	..	..	..	1	..	..	..	1	..	..	..	2	..
	4	11-16	..	..	..	..	..	..	..	..	2	..	2	..	4	..
	5	17-21	..	..	..	..	..	..	..	..	..	2	2	..	4	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	1	3	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	4	2	6	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	1	1	2	..
1800 G.M.T.	1	1-3	..	..	..	1	..	..	..	..	2	2	..	..	5	..
	2	4-6	..	..	..	1	..	..	..	..	..	..	..	..	1	..
	3	7-10	..	..	..	2	..	..	..	..	1	..	..	..	3	..
	4	11-16	..	..	..	1	..	..	..	..	..	..	1	1	3	..
	5	17-21	..	..	..	1	..	..	..	..	..	..	3	3	7	..
	6	22-27	1	..	..	..	..	..	..	..	..	..	5	2	8	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	1	2	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	2	..	2	..

November 1953

0000 G.M.T.	1	1-3	..	..	1	1	..	..	..	..	..	..	3	..	5	3
	2	4-6	..	..	..	..	..	..	..	1	..	1	..	..	2	..
	3	7-10	..	..	..	..	..	..	..	..	..	1	..	..	2	..
	4	11-16	..	..	..	..	..	..	..	..	..	..	..	1	1	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	4	..	4	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	2	4	6	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	1	2	4	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	2	1	3	..

Table 3 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0600 G.M.T.	1	1-3	2	..	2	..	1	..	..	1	1	1	..	..	8	3
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	4	11-16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	5	17-21	..	..	..	..	..	..	..	..	2	..	1	1	4	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	3	4	7	..
	7	28-33	1	1	..	..	..	..	..	..	..	..	1	1	4	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	3	1	4	..
1200 G.M.T.	1	1-3	..	..	1	1	..	1	..	..	1	1	1	..	6	1
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	2	..	..	..	..	..	..	..	2	..
	4	11-16	..	..	..	..	..	..	..	..	..	1	1	1	3	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	1	2	3	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	2	2	5	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	2	1	3	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	2	2	2	7	..
1800 G.M.T.	1	1-3	..	..	..	..	..	1	..	1	..	2	1	..	5	1
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	1	1	..	..	..	..	..	..	..	..	2	..
	4	11-16	..	..	..	1	..	..	..	..	..	..	2	..	3	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	1	3	4	..
	6	22-27	..	..	..	..	..	..	..	..	1	..	2	3	6	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	..	3	4	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	2	2	5	..

December 1953

0000 G.M.T.	1	1-3	..	2	..	..	..	..	..	2	1	..	1	..	6	4
	2	4-6	..	..	..	1	..	..	..	..	..	..	..	..	1	..
	3	7-10	..	..	..	1	..	..	1	..	..	..	2	..	4	..
	4	11-16	..	..	1	1	..	..	..	..	..	..	1	..	3	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	1	1	2	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	1	1	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	3	2	5	..
	8 or over	34 or over	1	..	..	..	..	..	..	..	..	..	..	3	4	..
0600 G.M.T.	1	1-3	..	..	1	1	1	..	2	1	..	3	..	1	10	4
	2	4-6	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	4	11-16	..	..	..	1	..	..	..	..	..	1	..	1	3	..
	5	17-21	..	..	..	..	..	..	..	..	..	1	2	..	3	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	28-33	1	..	..	..	..	..	..	..	..	..	1	1	3	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	4	2	6	..
1200 G.M.T.	1	1-3	1	..	..	1	..	..	..	1	1	..	1	1	6	3
	2	4-6	..	..	..	..	..	..	..	..	1	..	..	1	2	..
	3	7-10	..	..	..	..	..	..	..	..	..	1	1	..	2	..
	4	11-16	..	..	..	1	..	..	..	..	..	1	1	1	4	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	6	22-27	..	1	..	..	..	..	..	..	..	..	1	4	6	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	1	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	1	2	3	6	..	..
1800 G.M.T.	1	1-3	2	..	..	1	1	..	..	..	..	..	..	2	6	1
	2	4-6	..	..	1	1	..	..	..	..	..	1	1	..	4	..
	3	7-10	..	1	..	..	..	..	..	..	..	..	1	..	2	..
	4	11-16	..	..	..	1	1	..	..	..	..	1	1	..	4	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	7	28-33	2	..	..	..	..	..	..	..	..	..	3	3	8	..
	8 or over	34 or over	1	..	..	..	..	..	..	..	..	..	2	1	4	..

Table 3 (B) (cont.)

January 1954

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0000 G.M.T.	1	1-3	1	..	1	2	2	..	..	1	1	..	..	..	8	3
	2	4-6	1	..	..	2	..	..	1	..	..	..	..	1	5	..
	3	7-10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	4	11-16	..	..	..	..	..	..	..	..	..	1	1	1	2	..
	5	17-21	..	..	..	..	..	..	..	..	..	1	1	..	2	..
	6	22-27	1	..	1	..	..	..	..	..	..	..	1	1	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	2	..	2	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	3	2	5	..
0600 G.M.T.	1	1-3	1	..	2	3	..	..	..	..	..	..	1	..	7	7
	2	4-6	..	..	..	..	..	..	..	1	..	..	..	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	4	11-16	..	..	..	1	1	..	..	..	..	..	..	..	2	..
	5	17-21	..	..	..	1	..	..	..	..	..	1	..	3	5	..
	6	22-27	1	..	..	..	..	..	..	..	..	1	2	..	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	1	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	1	1	3	..
1200 G.M.T.	1	1-3	1	..	..	..	1	..	..	..	..	2	2	1	7	4
	2	4-6	..	..	..	1	1	..	..	..	..	1	..	..	3	..
	3	7-10	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	4	11-16	..	..	1	1	..	..	..	..	..	3	3	8	..	..
	5	17-21	..	..	..	..	..	..	..	..	..	1	..	1	..	..
	6	22-27	..	..	..	..	..	..	..	..	..	2	2	4	..	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	2	2	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	..	1	..	..
1800 G.M.T.	1	1-3	..	1	1	5	..	..	..	..	1	1	1	1	11	3
	2	4-6	..	..	1	..	..	..	..	1	..	..	..	1	3	..
	3	7-10	..	..	..	..	..	..	..	..	1	1	..	..	2	..
	4	11-16	..	..	..	1	..	..	..	..	..	1	1	..	3	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	..	1	1	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	2	2	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	1	3	5	..

February 1954

0000 G.M.T.	1	1-3	1	2	3	1	..	..	..	..	2	1	4	2	16	1
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	4	11-16	..	..	..	..	..	..	..	..	1	1	..	..	3	..
	5	17-21	..	..	1	..	..	..	..	..	..	..	..	..	1	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	1	1	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	1	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	2	2	4	..
0600 G.M.T.	1	1-3	..	..	..	1	2	..	..	..	..	2	1	..	6	7
	2	4-6	..	..	..	1	..	..	..	..	..	1	..	..	2	..
	3	7-10	..	..	1	1	..	..	..	..	..	..	..	..	2	..
	4	11-16	..	..	..	..	..	..	..	..	..	..	..	1	1	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	1	1	3	..
	7	28-33	..	..	1	..	..	..	..	..	..	..	1	1	3	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	1	2	3	..
1200 G.M.T.	1	1-3	3	1	1	1	..	2	..	1	..	1	..	1	11	1
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	1	..	..	1	..	..	..	..	..	..	..	..	2	..
	4	11-16	..	..	..	1	..	..	..	..	..	..	..	..	1	..
	5	17-21	..	..	..	1	..	..	..	..	..	1	..	..	2	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	3	3	6	..
	7	28-33	..	..	1	..	..	..	..	..	..	..	..	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	3	1	4	..

Table 3 (B) (cont.)

[illegible]

May 1954

[illegible]

June 1954

[illegible]

Table 3 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	3	1	..	4	..
	2	4-6	..	..	..	..	..	..	..	1	..	1	1	..	3	..
	3	7-10	..	..	1	1	1	..	..	..	..	..	1	..	4	..
	4	11-16	..	1	2	..	..	..	..	..	..	3	..	..	6	..
	5	17-21	..	..	1	3	1	..	..	..	..	1	1	..	8	..
	6	22-27	..	..	..	..	1	..	..	..	..	..	2	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	2	..	..	2	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
July 1954																
0000 G.M.T.	1	1-3	..	..	..	1	..	..	..	..	1	..	1	1	4	..
	2	4-6	..	..	..	..	..	..	..	..	2	..	..	..	2	..
	3	7-10	..	..	..	2	..	1	..	..	..	1	1	..	5	..
	4	11-16	1	..	..	..	1	..	..	1	..	3	5	1	12	..
	5	17-21	1	..	..	..	..	..	..	..	..	..	1	1	3	..
	6	22-27	2	..	..	..	..	..	..	..	..	..	..	2	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	2	3	..	5	1
	2	4-6	..	..	..	..	1	..	..	..	..	1	..	..	2	..
	3	7-10	..	..	..	..	..	..	..	..	..	..	1	1	1	..
	4	11-16	..	..	..	1	1	..	..	1	..	1	3	1	8	..
	5	17-21	2	..	..	..	..	..	..	..	1	1	1	7	11	..
	6	22-27	1	..	..	..	..	..	..	..	..	..	1	1	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	1	..	1	..	..	2	..
	2	4-6	..	..	..	..	1	..	..	..	..	1	..	..	2	..
	3	7-10	1	..	..	..	..	..	..	..	..	1	1	1	4	..
	4	11-16	..	..	..	..	..	..	..	..	..	1	2	1	4	..
	5	17-21	..	..	..	1	2	..	..	1	..	3	1	3	10	..
	6	22-27	..	..	..	..	..	..	..	..	..	3	..	4	7	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	1	..	2	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	1	..	..	..	..	1	..	..	2	..
	2	4-6	..	..	..	..	1	..	1	..	..	..	..	..	2	..
	3	7-10	..	..	..	..	2	..	..	..	..	3	..	..	5	..
	4	11-16	..	..	..	1	2	..	..	..	..	1	1	1	6	..
	5	17-21	..	1	..	2	..	..	..	..	..	2	4	2	11	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	3	1	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Table 3 (N)

“Northice”

Variation of Wind Speed with Direction

November 1952

Number of observations of:—																
	Beaufort Force	Knots	350 to 010	020 to 040	050 to 070	080 to 100	110 to 130	140 to 160	170 to 190	200 to 220	230 to 250	260 to 280	290 to 310	320 to 340	All Drns.	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0000 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	..	2	4	..	6	..
	4	11-16	..	..	..	..	..	..	..	..	1	3	1	..	5	..
	5	17-21	..	..	..	..	..	..	..	..	..	7	..	..	7	..
	6	22-27	..	..	..	..	..	..	..	..	1	5	1	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	1	1	1	..	3	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	1	..	1	..
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	..	3	2	..	5	..
	4	11-16	..	..	..	..	..	..	..	..	1	4	2	..	7	..
	5	17-21	..	..	..	..	..	..	..	..	2	3	1	..	6	..
	6	22-27	..	..	..	..	..	..	..	..	..	6	2	..	8	..
	7	28-33	..	..	..	..	..	..	..	..	1	1	..	..	2	..
	8 or over	34 or over	..	..	..	..	..	..	..	1	..	1	..	..	2	..
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	1	1	..	2	..
	3	7-10	..	..	..	..	..	..	..	..	..	1	2	..	3	..
	4	11-16	..	..	..	..	..	..	..	1	2	4	2	..	9	..
	5	17-21	..	..	..	..	..	..	..	..	3	3	1	..	7	..
	6	22-27	..	..	..	..	..	..	..	..	3	3	..	..	6	..
	7	28-33	..	..	..	..	..	..	..	..	1	1	..	..	2	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	1	..	1	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	2	..	4	..
	2	4-6	..	..	..	..	..	..	..	..	..	2	2	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	..	4	..	..	..	..
	4	11-16	..	..	..	..	..	..	..	2	1	1	5	..	9	..
	5	17-21	..	..	..	..	..	..	..	..	1	3	..	..	4	..
	6	22-27	..	..	..	..	..	..	..	..	2	2	..	..	4	..
	7	28-33	..	..	..	..	..	..	..	..	2	2	..	..	4	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	..	..	1	..
December 1952																
0000 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	..	4	1	1	6	..
	4	11-16	..	..	..	..	..	..	..	..	2	11	3	..	16	..
	5	17-21	..	..	..	..	..	..	..	..	1	4	1	..	6	..
	6	22-27	..	..	..	..	..	..	..	..	..	3	..	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	1	1	..	..	2	..
	2	4-6	..	..	..	..	..	..	..	..	..	2	..	..	2	..
	3	7-10	..	..	..	..	..	..	..	..	..	4	1	..	5	..
	4	11-16	..	..	..	..	..	..	..	..	..	12	1	1	14	..
	5	17-21	..	..	..	..	..	..	..	..	..	3	2	..	5	..
	6	22-27	..	..	..	..	..	..	..	..	..	3	..	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Table 3 (N) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0600 G.M.T.	1	1-3	1	..	..	..	..	..	..	..	..	..	..	..	1	..
	2	4-6	..	..	..	..	..	..	1	..	..	2	..	..	3	..
	3	7-10	..	..	..	..	..	..	..	..	1	5	1	..	7	..
	4	11-16	..	..	..	..	..	..	..	..	4	2	..	..	6	..
	5	17-21	..	..	..	..	..	..	..	..	1	8	..	..	9	..
	6	22-27	..	..	..	..	..	..	..	..	..	2	..	..	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	1	..	..	1	1
	2	4-6	..	..	..	..	..	..	..	..	1	1	..	..	2	..
	3	7-10	..	..	..	..	..	..	..	..	2	3	1	..	6	..
	4	11-16	..	..	..	..	..	..	..	..	2	6	1	..	9	..
	5	17-21	..	..	..	..	..	..	..	..	1	4	..	..	5	..
	6	22-27	..	..	..	..	..	..	..	..	..	3	..	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	1
	2	4-6	..	..	..	..	..	..	..	..	..	3	..	..	3	..
	3	7-10	..	..	..	..	..	..	..	..	..	5	..	..	5	..
	4	11-16	..	..	..	..	..	..	..	1	2	5	..	..	8	..
	5	17-21	..	..	..	..	..	..	..	..	4	3	..	..	7	..
	6	22-27	..	..	..	..	..	..	..	..	..	4	..	..	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
March 1953																
0000 G.M.T.	1	1-3	..	..	..	..	..	..	1	..	..	..	1	..	2	1
	2	4-6	..	..	..	..	..	..	..	..	..	..	4	1	5	..
	3	7-10	..	..	..	..	..	..	..	..	..	2	2	..	4	..
	4	11-16	..	..	..	..	..	..	..	..	2	5	1	..	8	..
	5	17-21	..	..	..	..	..	..	..	..	1	4	..	..	5	..
	6	22-27	..	..	..	..	..	..	..	..	1	5	..	..	6	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	1	..	1	2
	2	4-6	..	..	..	..	..	..	..	1	..	1	2	..	4	..
	3	7-10	..	..	..	..	..	..	..	..	1	1	3	..	5	..
	4	11-16	..	..	..	..	..	..	..	..	1	4	..	..	5	..
	5	17-21	..	..	..	..	..	..	..	1	3	3	..	..	7	..
	6	22-27	..	..	..	..	..	..	..	..	..	5	..	..	5	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	..	..	1	..
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	3	1	4	..
	2	4-6	..	..	..	..	..	..	..	..	..	1	2	..	3	..
	3	7-10	..	..	..	..	..	..	..	..	1	3	1	..	5	..
	4	11-16	..	..	..	..	..	..	..	..	1	2	1	..	4	..
	5	17-21	..	..	..	..	..	..	..	2	..	7	2	..	11	..
	6	22-27	..	..	..	..	..	..	..	..	1	2	..	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	..	..	1	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	1	2	3	..
	2	4-6	..	1	..	..	..	..	..	..	..	2	3	..	6	..
	3	7-10	..	..	..	..	..	..	..	..	..	2	1	..	3	..
	4	11-16	..	..	..	..	..	..	..	..	2	1	1	..	4	..
	5	17-21	..	..	..	..	..	..	..	2	2	5	..	..	9	..
	6	22-27	..	..	..	..	..	..	..	..	1	4	..	..	5	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	1	..	1	..

Table 3 (N) (cont.)

April 1953

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0000 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	1	2	1	..	4	..
	4	11-16	..	..	..	..	..	..	..	..	..	5	7	..	12	..
	5	17-21	..	..	..	..	..	..	..	..	1	4	5	..	10	..
	6	22-27	..	..	..	..	..	..	..	..	1	1	1	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	..	2	1	..	3	..
	4	11-16	..	..	..	..	..	..	..	..	1	7	5	..	13	..
	5	17-21	..	..	..	..	..	..	..	..	1	4	6	..	11	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	2	..	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	..	2	..	1	3	..
	4	11-16	..	..	..	..	..	..	..	..	1	7	6	..	14	..
	5	17-21	..	..	..	..	..	..	..	..	1	6	2	1	10	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	1	2	4	1	8	..
	4	11-16	..	..	..	..	..	..	..	..	..	6	5	..	11	..
	5	17-21	..	..	..	..	..	..	..	..	..	4	4	..	8	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	1	..	1	..

May 1953

[illegible]

Table 3 (N) (cont.)

June 1953

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0600 G.M.T.	1	1-3	..	..	..	..	..	..	1	..	1	..	..	..	2	1
	2	4-6	..	..	..	..	..	..	..	1	..	..	..	..	1	..
	3	7-10	..	..	1	..	1	..	..	1	3	..	1	1	8	..
	4	11-16	..	..	..	..	1	..	..	1	5	8	1	..	16	..
	5	17-21	..	..	..	..	..	..	..	..	1	..	1	..	2	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	..	..	..	1	..	..	1	..	..	..	2	2
	2	4-6	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	3	7-10	..	..	..	..	1	..	..	3	2	2	1	..	9	..
	4	11-16	1	..	..	..	..	..	..	1	2	6	2	1	13	..
	5	17-21	..	..	..	..	..	..	..	..	1	1	..	..	2	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	28-33	..	..	1	..	..	..	..	..	..	..	..	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	2
	2	4-6	..	..	..	..	..	..	1	1	..	1	..	..	3	..
	3	7-10	..	..	..	..	..	1	..	4	1	1	1	..	8	..
	4	11-16	1	..	..	..	..	1	1	1	3	1	2	..	10	..
	5	17-21	..	..	..	..	..	1	1	..	1	..	1	2	6	..
	6	22-27	1	..	..	..	..	..	..	..	..	..	..	..	1	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..

July 1953

0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	1	..	..	1	1
	2	4-6	..	..	..	..	..	..	..	..	1	2	..	..	3	..
	3	7-10	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	4	11-16	..	..	..	..	..	..	..	..	5	8	7	..	20	..
	5	17-21	..	..	1	..	..	..	..	..	..	2	2	..	5	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	1	2	1	..	4	..
	4	11-16	..	..	..	..	..	..	..	..	5	9	6	..	20	..
	5	17-21	..	..	..	2	..	..	..	..	..	2	1	..	5	..
	6	22-27	..	..	..	..	..	..	..	..	..	1	1	..	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	1	..	..	..	..	..	1	..
	3	7-10	..	..	..	..	1	..	..	..	..	..	..	..	1	..
	4	11-16	..	..	..	..	..	..	..	..	2	10	8	..	20	..
	5	17-21	..	..	..	..	1	..	..	..	..	3	4	..	8	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..

August 1953

0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	1	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	..	3	..	..	..	..
	4	11-16	..	..	..	..	..	..	..	..	4	8	5	..	..	..
	5	17-21	..	..	..	..	..	..	..	..	..	6	..	..	..	..
	6	22-27	..	..	..	..	..	..	..	..	1	2	1	..	..	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..



Table 3 (N) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	1
	2	4-6	..	..	..	..	..	..	..	..	..	1	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	..	3	..	..	..	..
	4	11-16	..	..	..	..	..	..	..	..	..	6	7	..	..	..
	5	17-21	..	..	..	..	..	..	..	..	..	9	..	..	..	..
	6	22-27	..	..	..	..	..	..	..	..	..	3	..	..	..	..
	7	28-33	..	..	..	..	..	..	..	..	..	1	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	2
	2	4-6	..	..	..	..	..	..	..	..	1	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	1	..	1	1	..	..	..
	4	11-16	..	..	..	..	..	..	..	..	2	6	8	..	..	..
	5	17-21	..	..	..	..	..	..	..	..	1	4	1	..	..	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	28-33	..	..	..	..	..	..	..	..	..	2	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	1	..	..	..	..

September 1953

[illegible]

October 1953

[illegible]

Table 3 (N) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	1	..	..	..	..	1	..	2	1	1	..	6	..
	4	11-16	..	..	..	..	..	..	1	..	5	8	3	..	17	..
	5	17-21	..	..	..	..	..	..	..	..	3	1	..	1	5	..
	6	22-27	..	..	..	..	..	..	..	..	..	2	1	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
November 1953																
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	1	1	1	..	3	..
	4	11-16	1	..	..	..	..	2	..	..	4	7	3	1	18	..
	5	17-21	..	1	..	..	..	..	..	..	1	3	3	..	8	..
	6	22-27	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	..	2	..	..	2	..
	4	11-16	..	1	..	..	..	1	1	1	6	7	2	..	19	..
	5	17-21	..	..	..	..	..	..	..	..	1	2	2	..	5	..
	6	22-27	..	..	..	..	..	..	..	..	1	..	2	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	1	..	..	1	..
	3	7-10	1	..	..	..	..	..	..	..	..	1	..	..	2	..
	4	11-16	..	..	..	..	..	..	..	1	6	6	3	..	16	..
	5	17-21	..	..	..	..	..	..	..	1	2	2	1	1	7	..
	6	22-27	..	..	..	..	..	..	..	..	2	..	2	..	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
December 1953																
0000 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	1	..	..	..	..	..	..	..	..	..	..	..	1	..
	3	7-10	..	..	..	1	..	1	..	..	..	..	1	..	3	..
	4	11-16	..	1	..	..	..	..	..	..	2	8	3	..	14	..
	5	17-21	..	..	..	..	..	..	..	..	4	7	..	..	11	..
	6	22-27	..	..	..	..	..	..	..	..	..	2	..	..	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	1	..	1	..	..	..	..	..	2	..
	3	7-10	..	..	..	..	..	..	..	1	..	1	2	..	4	..
	4	11-16	..	..	..	..	..	..	..	..	3	6	2	..	12	..
	5	17-21	..	..	..	..	..	..	..	..	3	7	1	..	11	..
	6	22-27	..	..	..	..	1	..	..	..	..	1	..	..	2	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	7-10	..	..	..	..	..	..	..	..	..	3	2	..	5	..
	4	11-16	..	..	..	..	..	..	..	..	4	8	1	2	15	..
	5	17-21	..	..	..	..	2	..	..	..	2	5	1	..	10	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	1	..	1	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Table 3 (N) (cont.)

[illegible]

March 1954

[illegible]

April 1954

[illegible]

Table 3 (N) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	..	1	1	..	2	..
	3	7-10	..	..	..	..	..	..	..	..	..	1	4	..	5	..
	4	11-16	..	..	..	..	..	..	..	..	..	8	1	..	9	..
	5	17-21	..	..	..	..	..	..	..	..	3	6	1	..	10	..
	6	22-27	..	..	..	..	..	..	..	..	2	2	..	..	4	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	..	..	1	..	..	..	..	..	..	..	1	..
	2	4-6	..	..	..	..	..	..	..	..	2	1	..	..	3	..
	3	7-10	..	..	..	..	..	..	..	1	2	1	1	..	5	..
	4	11-16	..	..	..	..	..	..	..	10	1	..	..	..	11	..
	5	17-21	..	..	..	..	..	..	..	1	3	..	..	..	4	..
	6	22-27	..	..	..	..	..	..	..	3	1	..	..	..	4	..
	7	28-33	..	..	..	..	..	..	..	1	..	..	..	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	1	..	..	..	1	..
1800 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2	4-6	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	3	7-10	..	..	..	..	..	..	..	..	4	2	..	..	6	..
	4	11-16	..	..	..	..	1	..	..	2	9	1	..	..	13	..
	5	17-21	..	..	..	..	..	..	..	2	3	2	..	..	7	..
	6	22-27	..	..	..	..	..	..	..	3	..	..	..	..	3	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
May 1954																
0000 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	1	1	2	..	3	..
	2	4-6	..	..	..	..	..	..	..	1	1	..	..	..	2	..
	3	7-10	..	..	..	..	..	..	..	1	2	3	2	..	8	..
	4	11-16	..	..	..	..	..	..	..	2	7	7	1	..	17	..
	5	17-21	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
0600 G.M.T.	1	1-3	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	2	4-6	..	..	..	..	..	..	..	..	1	..	1	..	2	..
	3	7-10	..	..	..	..	..	..	..	..	2	7	2	..	11	..
	4	11-16	..	..	..	..	..	..	1	6	9	..	..	..	16	..
	5	17-21	..	..	..	..	..	..	..	..	1	..	..	..	1	..
	6	22-27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1200 G.M.T.	1	1-3	..	..	1	..	..	..	..	..	2	..	..	..	2	..
	2	4-6	..	..	..	..	..	..	..	1	..	..	..	..	2	..
	3	7-10	..	..	..	..	..	..	..	4	7	2	1	..	14	..
	4	11-16	..	..	..	..	..	..	2	1	8	1	..	..	12	..
	5	17-21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	6	22-27	..	..	..	..	..	..	..	1	..	..	..	..	1	..
	7	28-33	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1800 G.M.T.	1	1-3	..	1	..	..	..	..	..	1	..	2	..	..	4	..
	2	4-6	..	..	..	..	..	..	1	1	2	..	1	..	5	..
	3	7-10	..	..	..	..	..	..	..	6	7	2	..	..	15	..
	4	11-16	..	..	..	..	..	..	1	..	2	1	..	..	4	..
	5	17-21	..	..	..	..	..	..	..	1	..	..	..	..	1	..
	6	22-27	..	..	..	..	..	..	..	1	..	..	..	..	1	..
	7	28-33	..	..	..	..	..	..	..	1	..	..	..	..	1	..
	8 or over	34 or over	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Table 3 (N) (cont.)

June 1954

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TEMPERATURE

Britannia Sø.

Temperatures were normally measured by standard M.O. pattern, mercury in glass thermometers and a thermograph. The ordinary dry-bulb thermometer was housed in a large Stevenson screen which had been lined with fine brass gauze to keep drifting snow out of the screen. The gauze lining, however, was not a success, for the screen tended to become choked with drifting snow particles. The gauze and the internal section of the screen's louvred walls were removed and with this great reduction in the restriction of the air flow through the screen considerable improvement was achieved.

In this screen was kept a whirling psychrometer which was used for measuring air temperature when there was little wind.

The maximum and minimum thermometer and the thermograph were housed in a Danish thermometer screen approximately 3 m to the S.S.W. of the other screen. There was no significant difference between the temperature measured by the dry bulb thermometer in the one screen and the minimum thermometer in the other. The height of the thermometer bulbs in each screen was about 1.4 m above the ground.

The M.O. pattern thermometers had been checked by the N.P.L. The thermometers in the whirling psychrometer were supplied by Messrs Casella Ltd. of London and were frequently checked against the standard thermometer.

“Northice”.

The instruments for temperature measurement were housed in a large Stevenson screen with a lining of brass gauze. The very fine drift particles penetrated the gauze however which served only to reduce the speed of the air blowing through the screen so that drifting snow was deposited. Accordingly the gauze was removed in June, 1953.

The only thermometers available in the screen from October, 1952 to May, 1953 was an ordinary mercury thermometer reading down to -40°F (-40°C) and a M.O. pattern alcohol minimum thermometer reading down to -50°F (-45°C).

At temperatures below -40°C the temperature was read on the thermometer of a whirling psychrometer which was graduated down to -90°F (-68°C). It was not possible to calibrate the whirling thermometers before the departure of the expedition. They were compared with the mercury thermometer with N.P.L. certificate in batches in oil baths down to -20°C , and were found to have errors of 0.2°C or less. After the return of the expedition two of the low range whirling psychrometer thermometers were calibrated by the meteorological office. They agreed well with each other and down to a temperature of -75°F (-59°C) they were never more than 0.3°C in error. From -75°F downwards the error showed a slight increase and is between 0.7 and 1.0°C higher at -90°F (-68°C). Temperatures below -75°F were measured on only 16 occasions. The error of the thermometers is likely, therefore, to be less than 0.5°C except at the very lowest temperatures when the error may be 1.0°C .

A normal M.O. pattern maximum thermometer, thermograph and hygrograph were installed in the screen on May 20th, 1953. When maximum and minimum temperatures were outside the range of the thermometers they were read from the thermograph which was constantly checked against the readings of the low-range thermometers.

Notes on the tables.

Tables 4(B) and 4(N) give the mean temperature and the highest and lowest temperatures for each month at each main synoptic hour.

Tables 5(B) and 5(N) give the mean values for each month of the maximum temperatures in the period 09 to 09 and of the minimum temperatures in the period 21 to 21. The absolute maximum and absolute minimum for each month is also given.

At "Northice" during the period November, 1952 to March, 1953 the minimum temperatures, when they were below the range of the minimum thermometer, were determined in the following manner. The air temperatures at the times of observation were plotted on a blank thermograph chart and the minimum temperature was estimated for each period without reference to the measured minimum temperature, when available. From the estimated and measured minimum temperatures during the periods when the temperatures were within the range of the minimum thermometer the error of estimation ΔT can be determined: ΔT is the mean value of estimated minimum minus actual minimum.

To obtain the monthly mean minimum temperature the quantity $-\frac{m}{n}\Delta T$ was added to the mean of the daily minima (measured when

possible, otherwise estimated) where n is the number of days in the month and m the number of occasions on which the minimum temperature was estimated. To obtain the absolute minimum $-\Delta T$ was added to the estimated absolute minimum.

Since, during this particular period, no measurements of maximum temperatures were made, no estimate can be given of the likely error made in estimating its value. The mean monthly temperature was obtained by adding the quantity ΔT to the mean of the estimated maxima. Similarly the absolute maxima was obtained by adding ΔT to the estimated absolute maximum. In April and May however when there is normally a diurnal variation of temperature and measurements are made near the time of maximum temperature no such correction has been added.

The values of ΔT for the months November, 1952 to March, 1953 were 0.4, 0.3, 0.5, 1.0, 0.3° C. and the values of m for these months were 9, 11, 14, 16, 18.

During these months, therefore there is an uncertainty of about 0.5° C. in the means of maximum and minimum temperatures, and of about 1.0° C. in the extreme values.

Tables 6(B) and 6(N) show the frequency (in times per month) of occurrence of maximum temperatures in the ranges shown at the heads of the columns. (The range includes the lower but not the higher of the figures).

Tables 7(B) and 7(N) are frequency tables for minimum temperatures similar to Tables 6(B) and 6(N).

The lowest temperature quoted at "Northice" January 1954 (—66.0° C.) is near the world's recorded minimum (—67.7° C.).

Table 4(B)
Britannia Sø
Temperatures at Synoptic Hours.

G.M.T.	Mean Temperature °C.				Highest Temperature °C.				Lowest Temperature °C.			
	00	06	12	18	00	06	12	18	00	06	12	18
Nov. 1952..	−15.3	−15.1	−14.7	−15.1	−2.2	−4.4	−5.0	−4.2	−25.0	−25.3	−25.8	−25.6
Dec. 1952..	−20.7	−20.2	−20.7	−21.2	−8.3	−9.3	−9.1	−8.8	−30.0	−30.0	−29.7	−30.0
Jan. 1953..	−19.6	−19.9	−20.2	−20.7	−3.1	−3.1	−2.8	−5.2	−30.6	−31.0	−32.2	−36.7
February...	−25.7	−24.7	−24.8	−24.5	−16.1	−13.7	−13.9	−10.6	−40.6	−38.6	−38.6	−39.4
March	−25.0	−24.4	−23.3	−23.6	−13.3	−9.4	−12.2	−9.7	−37.2	−38.0	−34.2	−34.6
April	−11.3	−12.2	−9.6	−9.0	+1.1	+2.1	+2.8	+1.9	−21.7	−23.6	−19.7	−18.9
May	−3.4	−4.5	−1.6	−0.3	+3.3	+7.8	+6.1	+8.2	−10.6	−13.3	−8.3	−7.8
June	+4.0	+3.8	+5.5	+6.5	+11.7	+12.2	+14.6	+14.4	−2.8	−0.6	+0.6	+0.6
July	+6.4	+5.5	+7.9	+8.5	+14.8	+12.8	+13.7	+14.9	+0.8	+0.6	+2.4	+2.2
August	+6.2	+4.7	+5.3	+7.7	+15.2	+14.2	+15.3	+15.3	+1.2	−0.4	+2.2	+3.9
September..	−3.2	−3.5	−2.3	−2.1	+5.0	+4.9	+7.7	+8.4	−14.2	−15.3	−13.5	−13.9
October	−12.1	−12.1	−12.1	−12.3	−4.1	−4.7	−5.6	−6.1	−18.9	−20.0	−19.3	−19.2
November..	−14.8	−15.3	−14.8	−14.5	−3.7	−6.9	−4.8	−4.2	−7.1	−28.9	−30.7	−30.0
Dec. 1953..	−19.4	−19.9	−19.6	−20.1	−10.8	−11.2	−9.7	−10.1	−31.7	−30.9	−29.1	−32.8
Jan. 1954..	−21.5	−22.2	−22.4	−22.6	−3.9	−7.5	−2.2	−3.8	−32.8	−32.9	−33.3	−33.3
February...	−20.8	−19.9	−19.5	−19.9	−6.5	−2.2	−1.8	−5.3	−33.7	−33.6	−33.3	−32.4
March	−25.5	−25.0	−24.2	−24.2	−7.9	−8.6	−8.3	−9.6	−36.4	−34.9	−34.9	−34.7
April	−19.3	−17.5	−14.2	−13.4	−4.9	−5.0	−3.3	−4.2	−32.9	−35.0	−29.6	−28.4
May	−3.8	−5.4	−2.2	−1.7	+11.9	+3.1	+4.9	+12.9	−13.1	−14.8	−11.0	−11.2
June	+3.1	+2.2	+3.8	+4.4	+9.2	+9.2	+9.3	+11.7	−4.9	−5.3	−3.7	−3.3
July	+6.2	+6.0	+7.7	+8.2	+14.8	+14.4	+12.5	+16.3	+1.4	+0.6	+1.1	+1.1

Table 4(N)
“Northice”
Temperatures at Synoptic Hours

G.M.T.	Mean Temperature °C.				Highest Temperature °C.				Lowest Temperature °C.			
	00	06	12	18	00	06	12	18	00	06	12	18
Nov. 1952..	−39.1	−38.9	−39.4	−39.4	−26.7	−21.6	−23.8	−27.2	−52.3	−51.2	−50.6	−53.9
Dec. 1952..	−39.6	−40.8	−40.4	−40.3	−30.2	−29.7	−29.4	−27.7	−47.2	−50.0	−50.6	−50.6
Jan. 1953..	−39.7	−40.5	−41.6	−40.7	−20.5	−17.8	−22.6	−19.3	−55.9	−56.7	−56.7	−54.6
February...	−45.4	−46.8	−46.8	−46.3	−19.7	−26.7	−24.3	−20.8	−60.0	−61.7	−63.3	−62.3
March	−45.9	−45.6	−44.9	−42.3	−34.3	−30.6	−29.6	−24.7	−61.0	−61.1	−58.4	−53.9
April	−32.6	−34.2	−31.4	−27.7	−20.3	−22.8	−20.1	−16.7	−42.3	−46.7	−40.6	−34.8
May	−27.3	−25.1	−20.9	−16.9	−14.5	−15.7	−12.8	−11.2	−33.1	−36.7	−29.4	−22.9
June	−12.4	−15.7	−12.6	−8.9	−5.6	−8.6	−7.2	−2.6	−22.2	−24.2	−21.1	−15.8
July	−10.6	−12.7	−10.0	−7.3	−3.9	−3.9	−1.7	−1.1	−18.6	−22.8	−18.9	−14.6
August	−14.6	−15.2	−12.6	−10.3	−5.6	−6.6	−4.6	−4.0	−31.2	−25.1	−22.1	−17.7
September..	−26.8	−27.2	−26.2	−24.2	−11.7	−13.3	−13.4	−11.3	−44.6	−44.2	−44.3	−37.9
October	−36.6	−36.7	−36.5	−36.1	−23.3	−25.4	−23.9	−20.8	−46.1	−46.7	−47.8	−46.1
November..	−40.9	−41.0	−40.4	−40.9	−24.4	−23.9	−19.8	−20.8	−58.3	−60.6	−56.9	−57.2
Dec. 1953..	−44.4	−43.6	−44.2	−44.7	−31.2	−31.9	−27.8	−30.0	−57.8	−55.3	−58.3	−56.2
Jan. 1954..	−40.4	−41.2	−42.3	−41.1	−19.7	−23.3	−25.0	−23.9	−63.1	−64.0	−66.0	−63.1
February...	−37.4	−36.7	−36.7	−38.0	−22.3	−21.8	−23.4	−24.2	−49.0	−48.3	−48.9	−48.9
March	−42.5	−43.1	−42.2	−39.6	−27.8	−26.3	−27.7	−24.5	−55.0	−56.1	−53.3	−48.9
April	−34.3	−36.8	−32.7	−28.7	−21.7	−16.6	−16.9	−13.7	−41.8	−46.1	−41.4	−37.5
May	−20.7	−24.8	−19.8	−16.3	−6.1	−9.7	−6.5	−5.7	−31.4	−35.6	−30.0	−25.5
June	−14.3	−16.4	−12.4	−9.5	−4.6	−3.7	−3.1	−1.5	−23.3	−27.4	−22.3	−17.3

Table 5 (B) **Britannia Sø**
Maximum and Minimum Temperature

	Mean Max. 09-09	Mean Min. 21-21	Highest Max.	Lowest Min.
	°C.	°C.	°C.	°C.
Nov. 1952.....	— 10.8	— 19.3	— 2	— 26
Dec. 1952.....	— 16.7	— 24.3	— 7	— 31
Jan. 1953.....	— 16.6	— 23.4	0	— 38
February.....	— 19.6	— 29.4	+ 3	— 42
March	— 20.1	— 28.2	— 4	— 39
April	— 6.9	— 14.1	+ 3	— 24
May	+ 1.2	— 6.2	+ 9	— 15
June	+ 8.8	+ 1.4	+ 17	— 5
July	+ 10.9	+ 3.2	+ 16	— 1
August	+ 9.4	+ 3.3	+ 17	— 1
September	— 0.4	— 5.4	+ 9	— 16
October	— 9.6	— 14.3	— 2	— 20
November.....	— 11.3	— 18.3	— 1	— 32
Dec. 1953.....	— 16.3	— 23.6	— 9	— 33
Jan. 1954.....	— 16.6	— 26.8	+ 1	— 34
February.....	— 15.2	— 24.2	— 2	— 34
March	— 20.6	— 30.4	— 7	— 38
April	— 11.4	— 20.1	— 3	— 36
May	+ 0.4	— 6.7	+ 13	— 16
June	+ 5.7	+ 0.6	+ 12	— 6
July	+ 9.2	+ 3.3	+ 17	— 1

Table 5 (N) **“Northice”**
Maximum and Minimum Temperature

	Mean Max. 09-09	Mean Min. 21-21	Highest Max.	Lowest Min.
	°C.	°C.	°C.	°C.
Nov. 1952.....	— 34.6	— 43.2	— 24	— 54
Dec. 1952.....	— 35.1	— 43.7	— 18	— 52
Jan. 1953.....	— 36.4	— 45.2	— 18	— 57
February.....	— 42.2	— 50.2	— 19	— 63
March	— 39.7	— 49.1	— 24	— 62
April	— 26.3	— 36.3	— 16	— 47
May	— 15.9	— 26.2	— 11	— 38
June	— 8.3	— 17.1	— 2	— 24
July	— 6.7	— 13.9	— 1	— 23
August	— 9.6	— 17.1	— 3	— 25
September	— 21.8	— 30.6	— 11	— 44
October	— 32.3	— 40.8	— 19	— 49
November.....	— 35.8	— 45.6	— 20	— 61
Dec. 1953.....	— 39.4	— 49.1	— 28	— 59
Jan. 1954.....	— 36.3	— 46.0	— 19	— 66
February.....	— 32.6	— 43.4	— 22	— 49
March	— 37.4	— 45.4	— 22	— 56
April	— 27.4	— 38.2	— 13	— 46
May	— 15.9	— 25.3	— 6	— 36
June	— 8.4	— 18.0	— 1	— 28

N.B. The maximum temperature in 24-hr. period ending 0900 on 14th July, 1954 was + 0.6.

Table 6(B) **Britannia Sö**
Frequency distribution of maximum temperatures

Number of occurrences of maximum temperatures in the ranges:—												
Range of temperature °C.	20 to 15	15 to 10	10 to 5	5 to 0	0 to —5	—5 to —10	—10 to —15	—15 to —20	—20 to —25	—25 to —30	—30 to —35	—35 to —40
Nov. 1952..	..	..	..	..	7	9	8	1	5	..	..	..
Dec. 1952..	..	..	..	..	..	5	9	8	5	4	..	..
Jan. 1953..	..	..	..	1	1	7	4	7	6	5	..	..
February...	..	..	..	1	..	..	6	11	5	2	2	1
March	..	..	..	..	1	..	6	7	13	2	2	..
April	..	..	..	5	5	9	10	1	..	..	..	..
May	..	..	8	11	11	1	..	..	..	..	..	..
June	3	8	16	3	..	..	..	..	..	..	..	..
July	4	18	9	..	..	..	..	..	..	..	..	..
August	2	10	18	1	..	..	..	..	..	..	..	..
September..	..	..	8	7	8	6	1	..	..	..	..	..
October....	..	..	..	..	3	13	13	2	..	..	..	..
November..	..	..	..	..	4	11	6	6	3	..	..	..
Dec. 1953..	..	..	..	..	..	2	11	12	5	1	..	..
Jan. 1954..	..	..	..	1	3	5	7	2	5	6	2	..
February...	..	..	..	..	2	8	2	10	3	2	1	..
March	..	..	..	..	..	1	5	10	8	6	1	..
April	..	..	..	..	4	11	9	2	2	2	..	..
May	..	1	5	10	12	3	..	..	..	..	..	..
June	..	5	13	10	2	..	..	..	..	..	..	..
July	2	12	12	5	..	..	..	..	..	..	..	..

The range of temperature includes the lower, but not the upper, limit.

Table 6(N) **“Northice”**
Frequency distribution of maximum temperatures

Number of occurrences of maximum temperatures in the ranges:—												
Range of temperature °C.	0 to —5	—5 to —10	—10 to —15	—15 to —20	—20 to —25	—25 to —30	—30 to —35	—35 to —40	—40 to —45	—45 to —50	—50 to —55	—55 to —60
Nov. 1952..	..	..	..	..	1	7	7	9	3	3	..	..
Dec. 1952..	..	..	..	1	..	5	9	10	6	..	..	..
Jan. 1953..	..	..	..	1	3	5	4	9	3	3	3	..
February...	..	..	..	2	1	1	3	4	7	..	7	3
March	..	..	..	..	1	2	9	5	1	10	3	..
April	..	..	..	4	9	7	10	..	..	..	..	..
May	..	..	18	6	6	..	..	..	..	..	..	..
June	7	15	8	..	..	..	..	..	..	..	..	..
July	10	15	6	..	..	..	..	..	..	..	..	..
August	3	16	11	1	..	..	..	..	..	..	..	..
September..	..	..	7	5	7	9	2	..	..	..	..	..
October....	..	..	..	1	1	9	10	9	1	..	..	..
November..	..	..	..	1	2	6	7	5	3	4	2	..
Dec. 1953..	..	..	..	..	..	2	4	11	9	4	1	..
Jan. 1954..	..	..	..	1	3	3	11	3	5	2	1	2
February...	..	..	..	..	5	7	5	7	2	2	..	..
March	..	..	..	..	2	6	4	4	11	4	..	..
April	..	..	1	2	5	15	5	2	..	..	..	..
May	..	4	13	7	6	1	..	..	..	..	..	..
June 1954..	4	19	7	..	..	..	..	..	..	..	..	..

The range of temperature includes the lower, but not the upper, limit.

Table 7(B) **Britannia Sö**
Frequency distribution of minimum temperatures

Number of occurrences of minimum temperatures in the ranges:—												
Range of temperature °C.	15 to 10	10 to 5	5 to 0	0 to —5	—5 to —10	—10 to —15	—15 to —20	—20 to —25	—25 to —30	—30 to —35	—35 to —40	—40 to —45
Nov. 1952..	..	..	..	..	1	5	11	9	4	..	..	..
Dec. 1952..	..	..	..	..	..	2	3	12	13	1	..	..
Jan. 1953..	..	..	..	..	..	2	7	11	7	3	1	..
February...	..	..	..	..	..	..	3	9	5	2	6	3
March	..	..	..	..	..	..	2	8	8	10	3	..
April	..	..	..	5	4	5	10	6	..	..	..	..
May	..	..	2	11	13	5	..	..	..	..	..	..
June	..	2	21	7	..	..	..	..	..	..	..	..
July	..	7	23	1	..	..	..	..	..	..	..	..
August	1	7	22	1	..	..	..	..	..	..	..	..
September..	..	..	6	10	7	5	2	..	..	..	..	..
October....	..	..	..	..	6	9	16	..	..	..	..	..
November..	..	..	..	..	1	9	10	4	5	1	..	..
Dec. 1953..	..	..	..	..	..	3	7	6	13	2	..	..
Jan. 1954..	..	..	..	..	..	1	5	6	10	9	..	..
February...	..	..	..	..	1	3	4	7	5	8	..	..
March	..	..	..	..	..	..	2	2	9	15	3	..
April	..	..	..	..	1	7	9	5	3	4	1	..
May	..	..	3	11	9	7	1	..	..	..	..	..
June	..	3	18	8	1	..	..	..	..	..	..	..
July	..	9	21	1	..	..	..	..	..	..	..	..

The range of temperature includes the lower, but not the upper, limit.

Table 7(N) **“Northice”**
Frequency distribution of minimum temperatures

Number of occurrences of minimum temperatures in the ranges:—													
Range of temperature °C.	0 to —5	—5 to —10	—10 to —15	—15 to —20	—20 to —25	—25 to —30	—30 to —35	—35 to —40	—40 to —45	—45 to —50	—50 to —55	—55 to —60	—60 to —65
November 1952	..	..	..	..	..	..	1	11	8	5	5	..	..
December 1952	..	..	..	..	..	..	1	3	15	10	2	..	..
January 1953	..	..	..	..	..	2	1	6	6	7	6	3	..
February.....	..	..	..	..	..	1	1	2	6	4	6	6	2
March	..	..	..	..	..	..	1	5	4	6	6	8	1
April	..	..	..	..	..	6	7	8	8	1	..	..	..
May	..	..	..	2	15	7	6	1	..	..	..	..	..
June	..	..	13	10	7	..	..	..	..	..	..	..	..
July	1	4	20	4	2	..	..	..	..	..	..	..	..
August	..	3	3	18	7	..	..	..	..	..	..	..	..
September	..	..	..	2	6	5	10	5	2	..	..	..	..
October	..	..	..	..	..	..	3	10	11	7	..	..	..
November.....	..	..	..	..	..	..	2	8	4	7	4	4	1
December 1953	..	..	..	..	..	..	1	..	6	10	10	4	..
January 1954	..	..	..	..	..	..	3	7	6	6	4	2	2
February.....	..	..	..	..	..	1	2	6	12	7	..	..	..
March	..	..	..	..	..	..	5	2	4	11	8	1	..
April	..	..	..	..	..	2	4	15	8	1	..	..	..
May	..	1	2	..	15	7	5	1	..	..	..	..	..
June 1954.....	1	1	5	14	6	3	..	..	..	..	..	..	..

The range of temperature includes the lower, but not the upper, limit.

HUMIDITY

Britannia Sø

Measurements of humidity were made by

- (a) Dry and wet-bulb hygrometer. Normal M.O. thermometers were used, but when the wind was light the whirling psychrometer was used. At temperatures below freezing point an ice bulb was painted on the thermometer bulb half an hour before the time of reading.
- (b) A standard M.O. pattern hair hygograph.
- (c) A lithium chloride hygrometer.

All the above instruments were housed in the large Stevenson screen.

Difficulties arose through the lack of an absolute instrument for measuring humidities at low temperatures. The dry- and ice-bulb could be used above temperatures of -15°C. to obtain relative humidity values which are probably correct to within 5 %.

The hair hygograph responded well to change of humidity but could not be regarded as an absolute instrument. However, by comparison with humidity values obtained with the D.W.B. hygrometer, the hygograph was calibrated so that the R.H. at the standard hours could be deduced from the trace. For the periods when temperatures were below -15°C. , it is on this basis that the humidity values tabulated herein were calculated.

The lithium chloride hygrometer was studied and attempts were made to calibrate this instrument which was made specially by the Meteorological Office.

The measurement of humidity has been discussed in detail elsewhere¹).

¹) Reference: "The Measurement of Humidity at Britannia Sø, 1952—53" by R. A. HAMILTON. (Meteorological Research Publication No. 983, 1956).

“Northice”

Measurements were made at “Northice” only during the short summer using hair hygrograph and dry-and-ice-bulb hygrometer. The results are not tabulated here.

Notes on the tables.

In table 8 are given the mean values and also the highest and lowest values at the synoptic hours in each month of the relative humidity measured with respect to water.

Table 9 gives the mean value of the vapour pressure at each synoptic hour in each month and also the highest and lowest values at the synoptic hours in each month.

Table 8. Britannia Sö
Relative Humidity

G.M.T.	Mean Relative Humidity % (w. r. t. water)				Highest R. H.	Lowest R. H.
	00	06	12	18		
November 1952.....	56	56	55	56	95	23
December 1952.....	73	69	70	72	100	22
January 1953.....	79	79	80	81	98	45
February.....	71	70	70	69	91	31
March.....	67	67	64	65	87	31
April.....	54	52	44	48	96	31
May.....	59	60	55	55	92	19
June.....	64	65	61	58	93	20
July.....	62	63	54	52	94	21
August.....	58	61	53	52	95	24
September.....	59	57	57	54	95	27
October.....	63	64	66	64	93	31
November.....	68	69	66	65	97	31
December 1953.....	72	73	73	72	93	26
January 1954.....	66	68	67	71	95	30
February.....	71	71	67	68	96	37
March.....	67	66	66	66	87	34
April.....	62	63	58	59	93	29
May.....	65	67	61	61	87	26
June.....	65	66	60	61	90	32
July 1954.....	57	56	51	50	88	23

Table 9
Britannia Sø
Vapour Pressure

G.M.T.....	Mean Vapour Pressure mb.				Highest V. P. mb.	Lowest V. P. mb.
	00	06	12	18		
November 1952.....	1.0	1.0	1.0	1.0	2.0	0.5
December 1952.....	0.9	0.8	0.8	0.8	2.0	0.5
January 1953.....	1.1	1.1	1.1	1.1	4.1	0.2
February.....	0.6	0.7	0.7	0.7	2.2	0.1
March.....	0.6	0.6	0.6	0.6	1.3	0.2
April.....	1.4	1.3	1.4	1.5	3.5	0.4
May.....	2.8	2.6	3.0	3.2	5.4	1.2
June.....	5.2	5.1	5.3	5.4	7.7	1.8
July.....	5.7	5.5	5.5	5.6	8.7	2.4
August.....	5.4	5.0	5.1	5.4	7.2	2.8
September.....	2.8	2.6	2.9	2.8	6.2	1.1
October.....	1.6	1.6	1.6	1.6	3.5	0.7
November.....	1.5	1.4	1.4	1.4	4.4	0.3
December 1953.....	1.0	1.0	1.0	0.9	1.9	0.3
January 1954.....	0.8	0.8	0.7	0.7	2.1	0.2
February.....	1.0	1.1	0.9	1.0	4.8	0.3
March.....	0.5	0.5	0.6	0.6	1.5	0.2
April.....	1.1	1.0	1.2	1.3	2.3	0.3
May.....	3.0	2.8	3.1	3.3	5.3	1.4
June.....	4.9	4.7	4.7	5.0	7.1	2.2
July.....	5.2	5.1	4.9	5.1	8.4	2.5

WIND CHILL

It is recognised by biologists that when considering the resistance of animals and plants to temperature, it is not only the air temperature that matters but that the wind speed is a very important factor while other factors such as radiation must be considered.

The term wind chill is used by physiologists to denote the rate of cooling of the human skin, and SIPLE¹⁾ has derived the empirical formula

$$K = (\sqrt{100v} + 10.45 - v) (33 - T)$$

where K is the total dry-shade cooling in kilogram calories per square metre of skin per hour,

v is the wind velocity in metres per second,

and T is the air temperature in centigrade degrees.

The values of wind chill used in construction of this table have been derived from this equation. The effect of radiation, which amounts to about 200 units in strong sunlight has not been considered.

Notes on the Tables.

The wind chill was read from a nomogram based on Siple's formula at each main hour of observation and was rounded off to the nearest hundred.

Tables 34(B) and 34(N) show in each month the percentage frequency of occasions on which the wind chill was in the range of values (when rounded to the nearest hundred) at the head of the column. The observations at all four synoptic hours have been considered.

In Siple's equation no mention is made of the height at which the wind speed is measured. In computing these values the wind measured at anemometer level has been accepted.

¹⁾ Siple Proc. Amer. Phil. Soc. Vol. 89 No. 1 April, 1945.

The expressions of relative comfort based on an individual in a state of inactivity are as follows:—

- 300— 400 Pleasant
- 500— 600 Cool
- 700— 800 Very cool
- 900—1000 Cold
- 1100—1200 Very cold
- 1300—1400 Bitterly cold
- Below 1400 Exposed flesh freezes.

Table 10(B) **Britannia Sø**
*Percentage frequency of occasions in each month on which
the wind chill was in the ranges shown*

Range	300 to 400	500 to 600	700 to 800	900 to 1000	1100 to 1200	1300 to 1400	1500 to 1600	1700 to 1800	1900 to 2000	2100 to 2200
Nov. 1952...	..	..	4	12	27	26	27	4	..	..
Dec. 1952...	..	..	..	22	22	14	30	12	..	..
Jan. 1953...	..	..	4	16	21	15	19	21	4	..
February....	..	..	1	15	27	10	13	25	8	..
March	..	..	..	8	22	13	15	31	12	..
April	..	..	4	9	27	31	19	9	1	..
May	..	11	16	37	32	4	..	..	..	..
June	7	37	23	30	3	..	..	..	..	..
July	6	29	47	17	..	..	..	..	..	..
August	..	38	41	21	..	..	..	..	..	..
September ..	..	3	25	40	23	9	..	..	..	..
October	..	..	9	10	19	47	14	1	..	..
November...	..	2	11	11	13	20	29	11	3	..
Dec. 1953...	..	..	4	22	10	21	22	19	2	..
Jan. 1954...	..	..	2	12	39	14	14	12	5	2
February....	..	..	10	21	26	11	8	20	4	..
March	..	..	..	15	38	10	11	19	7	..
April	..	..	10	17	27	32	14	..	..	..
May	..	8	14	41	30	6	1	..	..	..
June	..	19	45	33	3	..	..	..	..	..
July 1954...	2	23	64	10	..	..	..	..	..	..

Table 10 (N) “Northice”

*Percentage frequency of occasions in each month on which
the wind chill was in the ranges shown*

Range.....	500 to 600	700 to 800	900 to 1000	1100 to 1200	1300 to 1400	1500 to 1600	1700 to 1800	1900 to 2000	2100 to 2200	2300 to 2400	2500 to 2600	2700 to 2800	2900 to 3000
November 1952.....	..	..	..	..	..	..	4	24	26	28	18	..	..
December 1952.....	..	..	..	..	1	1	7	14	42	26	9	..	..
January 1953.....	..	..	..	2	3	4	13	15	24	24	11	4	..
February	..	..	2	..	..	3	7	12	13	23	31	9	..
March.....	..	..	..	..	1	3	12	16	18	30	14	6	..
April.....	..	..	..	..	..	13	28	25	29	5	..	..	..
May	..	..	1	5	19	40	26	9	..	..	..	..	..
June	1	6	8	28	40	14	3	..	..	..	..	..	..
July	..	1	5	42	40	12	..	..	..	..	..	..	..
August	..	3	1	16	51	24	5	..	..	..	..	..	..
September	..	..	..	1	13	27	18	31	10	..	..	..	..
October	..	..	..	..	1	2	13	23	39	21	1	..	..
November	..	..	..	..	..	2	7	13	31	28	11	8	..
December 1953.....	..	..	..	..	..	1	6	11	14	31	27	9	1
January 1954.....	..	..	..	..	..	..	3	18	32	22	15	9	1
February	..	..	..	1	..	1	11	18	20	31	17	1	..
March.....	..	..	..	..	..	..	3	15	17	31	30	4	..
April.....	..	..	..	1	2	6	20	30	29	12	..	..	..
May	..	3	7	12	27	27	19	5	..	..	..	..	..
June	..	5	12	38	36	8	1	..	..	..	..	..	..

PRESSURE

Britannia Sø.

Four M.O. Kew pattern barometers were taken to Britannia Sø and on being set up they were all found to agree to within 0.1 mb. Two were taken on to "Northice" and two remained at Britannia Sø for the first winter. They were compared periodically and the comparison was found satisfactory. One of these was taken to "Northice" in May, 1953, so that from then onwards until July, 1954, there was only one barometer at Britannia Sø. There is no reason to suppose that the subsequent readings of this barometer were incorrect and it agreed with the barometers brought back from "Northice" in July, 1954.

A continuous record of station-level pressure was made by a M.O. pattern open-scale barograph which was kept in the laboratory.

"Northice".

Of the two M.O. Kew pattern barometers taken by sledge to "Northice", one was broken en route but the second, No. 2408, reached the destination intact, though there appeared to be a few small air bubbles in the tube. These were removed after a considerable amount of repeated inversion and gentle tapping of the instrument, which eventually resulted in the mercury striking the top of the tube with a click when the barometer was tilted, indicating that no air bubbles were present.

In May, 1953, the spare barometer No. 3120 was brought from Britannia Sø, where it had agreed with the one in use. It was set up beside 2408, after checking that no air was in the tube and found to read 1.0 mb. higher. No. 2408 was therefore inverted and a small air bubble removed. The two barometers now agreed and continued to do so until they were taken down in July 1954.

On return to Britannia Sø, they were subjected to inversion and tapping for removal of air after a very bumpy journey and were found to agree with the barometer there.

On return to Britain all barometers were set up at the Met. Office at Harrow and compared with the test barometer there. There was no significant error.

It is not known whether No. 2408 was correct in October, 1952 and subsequently an air bubble entered the tube or whether the barometer read 1.0 mb. too low throughout the first winter. Accordingly 0.5 mb. has been added to the readings before May 24th, 1953 and the monthly means are subject to a constant error of ± 0.5 mb. The value of gravity used in the correction table is that determined on the spot 982.24 cm/sec².¹⁾

A continuous record of pressure was made by a barograph specially constructed to operate at pressures of the order of 700 to 750 mb. It was first of all situated at approximately the same height as the barometer cistern on the interior of the north wall of the hut but, in order to avoid the effects of temperature fluctuation, and minor pressure changes caused by the sudden closing of the hut door, from May 1953 onwards the barograph was housed in the entrance tunnel or the entrance lobby to the hut. In the autumn it was moved to the generator room.

Notes on the Tables.

Tables 11 (B) and 11 (N) show the mean monthly pressure at station level and the extreme pressure values which were read from the barograph trace, corrected at the nearest synoptic hours.

The equation for determining the mean sea level pressure, p_0 , at a station of altitude H metres at which the pressure is p , is given by

$$H = 67.4 T (\log. p - \log. p_0)$$

where T is the mean temperature in degrees absolute in the air column between the station and m. s. l. Normally T is estimated and if H is small the corresponding error in p is also small.

In the case of Britannia Sør it is difficult to estimate the mean monthly value of T as the temperature gradient at the surface was sometimes a marked inversion and on other occasions the temperature gradient was probably small. In order to determine a mean monthly value of the m. s. l. correction the adopted value of T is the mean monthly temperature derived from the first four columns of Table 4(B) plus 1° . An error of 1° in the estimate of T results in an error of 0.1 mb. in the value of p_0 .

The values of the monthly mean correction to m. s. l., $p_0 - p$ are shown in the last column of Table 11 (B).

¹⁾ C.B.B. BULL. Meddelelser om Grønland, Bd. 137, Nr. 1.

Table 11 (B) **Britannia Sø**
Station Level Pressure

G. M. T.	Monthly Mean Pressures, mb.				Extreme pressures mb.		Mean Correction to m.s.l.
	00	06	12	18	Highest	Lowest	
November 1952....	985.9	986.9	987.3	987.1	1001.0	963.5	30.4
December 1952....	990.2	989.3	990.3	990.2	1002.0	972.3	31.1
January 1953....	980.9	980.3	980.8	980.6	997.6	957.6	30.8
February.....	982.1	981.5	981.9	981.4	1003.0	943.2	31.4
March.....	986.6	986.1	986.9	986.8	1008.5	957.2	31.5
April.....	995.2	994.8	995.2	994.5	1008.0	980.7	30.3
May.....	989.4	989.5	989.8	989.3	1004.2	975.9	29.0
June.....	983.7	983.7	984.0	983.6	996.9	964.6	28.0
July.....	982.5	982.3	982.7	982.1	998.2	969.4	27.8
August.....	983.2	983.4	983.9	983.2	997.8	963.7	27.9
September.....	982.9	982.4	982.7	982.3	995.0	955.0	28.8
October.....	980.8	980.3	980.3	980.2	999.5	964.6	29.8
November.....	976.9	976.4	976.9	976.7	991.4	952.0	30.1
December 1953....	971.1	970.9	971.0	971.3	985.4	951.5	30.5
January 1954....	983.5	983.3	983.5	983.2	1005.6	960.0	31.0
February.....	978.4	977.2	977.4	978.3	1007.2	954.0	30.6
March.....	987.5	987.1	987.6	987.1	1000.2	972.8	31.7
April.....	989.6	989.5	989.1	989.5	1012.0	969.8	30.4
May.....	995.5	995.9	995.9	995.3	1007.4	983.5	29.4
June.....	986.7	986.9	986.7	986.3	997.0	976.8	28.4
July.....	983.5	983.5	983.7	983.5	1000.9	971.7	27.8

Table 11 (N) **“Northice”**
Station Level Pressure

G.M.T.....	Monthly Mean Pressures, mb.				Extreme pressures mb.	
	00	06	12	18	Highest	Lowest
November 1952.....	744.4	744.7	744.5	744.1	754.4	732.6
December 1952.....	744.4	744.1	744.2	744.4	758.2	728.7
January 1953.....	736.5	736.4	736.4	736.1	748.7	717.6
February.....	735.3	735.0	735.7	735.0	756.6	711.2
March.....	736.1	736.1	736.2	736.0	747.8	714.4
April.....	752.1	752.2	752.4	752.0	768.6	737.3
May.....	753.4	753.5	753.5	753.3	768.7	741.5
June.....	754.2	754.1	754.1	753.9	768.1	740.0
July.....	755.8	755.8	755.9	755.6	765.5	743.4
August.....	756.2	756.2	756.3	756.1	767.3	741.5
September.....	749.4	749.1	749.3	749.0	761.9	737.7
October.....	741.8	741.5	741.7	741.7	755.5	732.9
November.....	737.5	737.2	737.2	737.3	749.2	718.9
December 1953.....	729.6	729.4	729.5	729.3	739.0	720.1
January 1954.....	737.8	737.8	738.2	737.7	756.0	723.9
February.....	735.3	735.1	735.8	735.8	753.4	720.4
March.....	739.1	738.8	738.9	738.7	749.3	724.7
April.....	747.6	747.5	747.8	748.0	767.0	732.3
May.....	758.7	758.7	758.6	758.4	766.7	751.3
June.....	756.0	755.6	755.6	755.5	762.1	742.1

CLOUD

Heights and amounts of cloud were estimated by eye at both stations as no instruments were available.

At Britannia Sø the heights of various hills in the neighbourhood were known and these, together with the height of various marks on the hillsides, were used when estimating the cloud heights on the infrequent occasions when the cloud base was lower than the hilltops.

At "Northice" the estimation of the height of cirrus was particularly difficult. The estimates were checked at times by determination of the cloud base heights by pilot balloons.

Notes on the Tables.

The conventions which were in force in 1952 have been adopted when compiling these tables, e. g. a trace of cloud has not been regarded as significant and has been ignored when compiling Tables 14(B) and 14(N), but in the other tables a trace counts as one okta.

Tables 12(B) and 12(N) give the mean monthly amount of low cloud i. e. cloud below 2500 m above station level, for each main synoptic hour. The mean of these 4 (or 3) means is given as "all hours".

Tables 13(B) and 13(N) give the mean monthly amount of total cloud for each main synoptic hour. The mean of these 4 (or 3) means is given as "all hours".

Tables 14(B) and 14(N) show the variation of the amount of cloud, in oktas, shown at the left of each row, with the height of the base of the cloud shown in code¹⁾ at the head of the columns. Totals of the occasions of occurrence of the different amounts (irrespective of height) and of different heights (irrespective of amount) are shown at the ends

¹⁾ N.B. The significance of the code figures for cloud height is as follows:—

Code Figs.	Range of Height	
	From	To
	m.	m.
00	0	30
01	30	60
02-03	60	120
04-09	120	300
10-19	300	600
20-39	600	1200
40-79	1200	2500
80-85	2500	6000
86-89	6000 or more	

N.B. The ranges of height include the lower but not the upper limits.

of the rows and at the bottoms of the columns. The numbers of occasions of no significant cloud below 2500 m and of no cloud at all are given in the row for amount 0 in the columns 40—79 and 86—89 respectively.

Tables 15(B) and 15(N) show the diurnal variation of the total amount of cloud in each month. The total amount of cloud is given in oktas at the top of each column. The code figure 9 indicates that the sky is obscured by drifting snow, fog etc.

Table 12(B) **Britannia Sö**
Monthly mean amounts of low cloud (oktas)

G.M.T.....	00	06	12	18	All Hours
Nov. 1952.....	..	0.0	0.0	0.3	0.1
Dec. 1952.....	..	0.0	0.0	0.0	0.0
Jan. 1953.....	..	1.3	1.4	0.6	1.1
February.....	..	0.2	0.3	0.8	0.4
March.....	..	0.8	0.7	0.8	0.8
April.....	..	0.3	0.4	0.1	0.3
May.....	..	1.1	1.0	1.2	1.1
June.....	..	1.3	2.2	1.4	1.6
July.....	1.4	1.6	0.9	0.8	1.2
August.....	1.7	1.8	1.3	1.5	1.6
September.....	2.0	1.6	1.0	1.6	1.5
October.....	2.7	3.5	3.6	3.7	3.4
November.....	2.1	5.4	3.3	2.5	3.3
Dec. 1953.....	2.2	2.0	2.4	1.5	2.0
Jan. 1954.....	0.5	1.0	0.9	0.7	0.8
February.....	1.9	2.0	2.6	2.6	2.3
March.....	1.2	0.9	0.9	1.2	1.1
April.....	0.9	1.0	0.7	0.8	0.9
May.....	..	1.7	1.9	1.6	1.7
June.....	..	3.3	3.3	2.9	3.2
July.....	3.0	3.6	2.4	2.8	2.9

Table 12(N) **“Northice”**
Monthly mean amounts of low cloud (oktas)

G.M.T.....	00	06	12	18	All Hours
Nov. 1952.....	0.5	0.4	0.6	0.8	0.6
Dec. 1952.....	0.5	0.6	0.3	0.0	0.3
Jan. 1953.....	0.5	1.0	1.0	1.6	1.0
February.....	0.3	0.3	0.3	0.5	0.3
March.....	0.3	0.9	1.0	1.4	0.9
April.....	2.0	2.2	1.5	0.7	1.6
May.....	..	1.0	0.4	0.5	0.6
June.....	..	1.7	1.5	1.9	1.7
July.....	..	2.7	2.5	2.2	2.5
August.....	..	2.0	2.9	1.7	2.2
September.....	..	2.2	1.9	1.9	2.0
October.....	..	0.5	1.2	0.8	0.8
November.....	..	0.5	0.3	0.0	0.3
Dec. 1953.....	..	0.5	0.8	1.0	0.8
Jan. 1954.....	0.8	0.8	0.2	0.4	0.5
February.....	0.6	1.1	1.2	0.6	0.9
March.....	0.0	0.0	0.0	0.0	0.0
April.....	0.0	0.0	0.5	0.0	0.1
May.....	1.0	1.1	1.5	1.0	1.1
June.....	1.7	2.3	1.8	1.2	1.7

Table 13(B) **Britannia Sö**
Monthly mean amount of total cloud (oktas)

G.M.T.....	00	06	12	18	All Hours
Nov. 1952.....	..	1.4	2.1	1.8	1.8
Dec. 1952.....	..	1.1	1.2	1.5	1.3
Jan. 1953.....	..	2.8	3.9	3.3	3.3
February.....	..	2.5	2.5	3.4	2.8
March.....	..	2.3	2.8	2.7	2.6
April.....	..	2.8	2.9	2.7	2.8
May.....	..	3.0	3.2	3.1	3.1
June.....	..	3.9	4.0	3.6	3.8
July.....	..	4.0	3.5	2.7	3.4
August.....	3.3	3.7	3.1	2.9	3.3
September.....	3.3	3.7	4.2	3.6	3.7
October.....	3.7	5.7	6.3	5.0	5.2
November.....	3.8	4.1	4.7	4.3	4.2
Dec. 1953.....	3.4	4.1	3.9	3.6	3.8
Jan. 1954.....	2.7	2.9	2.8	2.9	2.8
February.....	3.9	3.1	4.3	4.0	3.8
March.....	2.2	2.4	2.8	3.2	2.6
April.....	2.0	2.1	2.2	1.9	2.0
May.....	..	4.4	3.9	3.3	3.9
June.....	..	4.9	4.7	4.5	4.7
July 1954.....	3.5	4.3	3.7	3.4	3.7

Table 13(N) **“Northice”**
Monthly mean amount of total cloud (oktas)

G.M.T.....	00	06	12	18	All Hours
Nov. 1952.....	1.9	1.9	2.5	3.1	2.3
Dec. 1952.....	3.2	2.6	3.6	3.1	3.1
Jan. 1953.....	3.3	3.3	3.3	3.3	3.3
February.....	1.5	1.7	2.9	2.9	2.3
March.....	1.9	3.0	4.1	3.9	3.3
April.....	3.9	3.9	3.6	3.5	3.7
May.....	..	3.0	3.5	3.4	3.1
June.....	..	3.7	3.4	3.0	3.4
July.....	..	3.7	3.8	3.2	3.6
August.....	..	3.2	3.6	3.7	3.5
September.....	..	3.9	4.0	3.9	3.9
October.....	..	2.2	3.9	3.0	3.0
November.....	..	2.1	2.0	2.5	2.2
Dec. 1953.....	2.4	2.5	2.4	1.9	2.3
Jan. 1954.....	2.3	1.7	1.6	2.0	1.9
February.....	3.2	2.6	2.9	1.8	2.6
March.....	1.3	1.3	1.8	1.4	1.5
April.....	1.6	1.6	2.7	2.0	2.0
May.....	2.0	2.1	2.9	2.2	2.3
June.....	2.8	3.0	3.6	2.4	2.9

Table 14 (B)

Britannia Sø

Variation of amount of cloud with height of cloud

0600 November 1952										
Amount Oktas	HEIGHT (Code Fig.)									
	00	01	02 to 03	04 to 09	10 to 19	20 to 39	40 to 79	80 to 85	86 to 89	Total
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	29	..	20	..
1.2	..	..	..	..	..	..	1	1	2	4
3.4	..	..	..	..	..	..	..	1	1	2
5.6	..	..	..	..	..	..	..	..	2	2
7.8	..	..	..	..	..	..	..	2	..	2
Total	..	..	..	..	..	..	1	4	5	10

1200										
0	..	..	..	..	..	..	29	..	4	..
1.2	..	..	..	..	..	..	1	8	12	19
3.4	..	..	..	..	..	..	..	1	2	3
5.6	..	..	..	..	..	..	..	..	2	2
7.8	..	..	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	1	9	16	24

1800										
0	..	..	..	..	..	..	28	..	15	..
1.2	..	..	..	..	..	..	1	2	7	10
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	1	..	4	..	5
Total	..	..	..	..	..	1	1	6	7	15

0600 December 1952										
0	..	..	..	..	..	..	31	..	23	..
1.2	..	..	..	..	..	..	..	1	3	4
3.4	..	..	..	..	..	..	..	2	..	2
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	..	..	2	2
Total	..	..	..	..	..	..	..	3	5	8

1200										
0	..	..	..	..	..	..	31	..	17	..
1.2	..	..	..	..	..	..	..	2	9	11
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	..	2	..	2
Total	..	..	..	..	..	..	..	5	9	14

1800										
0	..	..	..	..	..	..	31	..	22	..
1.2	..	..	..	..	..	..	..	2	3	5
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	..	4	..	4
Total	..	..	..	..	..	..	..	6	3	9

0600 January 1953										
Amount Oktas	HEIGHT (Code Fig.)									
	00	01	02 to 03	04 to 09	10 to 19	20 to 39	40 to 79	80 to 55	86 to 89	Total
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	26	..	14	..
1.2	..	..	..	..	..	..	..	4	3	7
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	2	1	3
7.8	..	1	2	..	..	2	..	..	1	6
Total	..	1	2	..	..	2	..	7	5	17

1200										
0	..	..	..	..	..	..	25	..	5	..
1.2	..	..	..	..	..	..	1	1	11	13
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	1	..	1	1	2	6	..	11
Total	..	..	1	..	1	1	3	7	13	26

1800										
0	..	..	..	..	..	..	27	..	11	..
1.2	..	..	..	..	..	..	1	..	8	9
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	1	1	2
7.8	..	1	1	..	..	..	1	5	1	9
Total	..	1	1	..	..	..	2	6	10	20

0600 February 1953										
0	..	..	..	..	..	..	26	..	17	..
1.2	..	..	..	..	..	..	..	1	1	2
3.4	..	..	..	..	..	..	..	2	..	2
5.6	..	..	..	..	..	..	..	..	2	2
7.8	2	..	..	..	..	..	..	3	..	5
Total	2	..	..	..	..	..	..	6	3	11

1200										
0	..	..	..	..	..	..	26	..	8	..
1.2	..	..	..	..	..	..	1	3	10	14
3.4	..	..	..	..	..	..	..	..	1	1
5.6	..	..	..	..	..	..	..	..	1	1
7.8	..	..	..	..	..	1	..	3	..	4
Total	..	..	..	..	..	1	1	6	12	20

1800										
0	..	..	..	..	..	..	24	..	6	..
1.2	..	..	..	..	..	..	1	4	6	11
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	1	2	..	3
7.8	..	..	..	..	..	..	2	6	..	8
Total	..	..	..	..	..	..	4	12	6	22

Table 14 (B) (cont.)

0600 March 1953										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	28	..	16	..
1.2	..	..	..	..	..	..	..	3	3	6
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	..	1	1	2
7.8	3	..	..	..	..	..	..	1	1	5
Total	3	..	..	..	..	..	..	5	7	15

1200										
0	..	..	..	..	..	..	28	..	15	..
1.2	..	..	..	..	..	..	..	2	2	4
3.4	..	..	..	..	..	..	..	2	3	5
5.6	..	..	..	..	..	..	1	..	1	2
7.8	..	..	..	..	1	..	1	3	..	5
Total	..	..	..	..	1	..	2	7	6	16

1800										
0	..	..	..	..	..	..	28	..	12	..
1.2	..	..	..	..	..	..	..	5	4	9
3.4	..	..	..	..	..	..	..	..	4	4
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	1	2	..	..	2	1	6
Total	..	..	..	1	2	..	..	7	9	19

0600 April 1953										
0	..	..	..	..	..	..	29	..	11	..
1.2	..	..	..	..	..	..	..	4	4	8
3.4	..	..	..	..	..	..	..	3	2	5
5.6	..	..	..	..	..	..	..	1	2	3
7.8	..	..	..	..	..	..	1	1	1	3
Total	..	..	..	..	..	1	9	9	9	19

1200										
0	..	..	..	..	..	..	28	..	10	..
1.2	..	..	..	..	..	..	..	5	4	9
3.4	..	..	..	..	..	..	1	2	3	6
5.6	..	..	..	..	..	..	..	2	2	4
7.8	..	..	..	..	1	..	..	..	..	1
Total	..	..	..	..	1	1	9	9	9	20

1800										
0	..	..	..	..	..	..	28	..	10	..
1.2	..	..	..	..	..	1	1	2	7	11
3.4	..	..	..	..	..	..	..	2	1	3
5.6	..	..	..	..	..	..	..	2	2	4
7.8	..	..	..	..	..	..	..	2	..	2
Total	..	..	..	..	..	1	1	8	10	20

0600 May 1953										
0	..	..	..	..	..	..	25	..	8	..
1.2	..	..	..	..	..	..	2	6	5	13
3.4	..	..	..	..	..	..	..	..	3	3
5.6	..	..	..	..	..	..	..	2	1	3
7.8	..	..	..	1	1	1	1	..	..	4
Total	..	..	..	1	1	1	3	8	9	23

1200										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	24	..	6	..
1.2	..	..	..	..	..	..	2	5	7	14
3.4	..	..	..	..	..	..	2	..	..	2
5.6	..	..	..	..	..	..	..	3	2	5
7.8	..	..	..	1	1	..	1	1	..	4
Total	..	..	..	1	1	..	5	9	9	25

1800										
0	..	..	..	..	..	..	23	..	9	..
1.2	..	..	..	..	..	..	2	6	2	10
3.4	..	..	..	..	..	..	2	2	2	6
5.6	..	..	..	..	1	..	..	1	1	3
7.8	..	..	..	..	..	3	..	..	..	3
Total	..	..	..	..	1	3	4	9	5	22

0600 June 1953										
0	..	..	..	..	..	..	23	..	6	..
1.2	..	..	..	..	..	..	1	3	7	11
3.4	..	..	..	..	..	1	..	2	..	3
5.6	..	..	..	..	..	1	1	..	..	2
7.8	..	1	..	1	..	1	..	3	2	8
Total	..	1	..	1	..	3	2	8	9	24

1200										
0	..	..	..	..	..	..	17	..	6	..
1.2	..	..	..	..	..	2	2	..	4	8
3.4	..	..	..	..	..	1	1	..	2	4
5.6	..	..	..	..	..	2	..	..	3	5
7.8	..	..	..	..	1	1	3	2	..	7
Total	..	..	..	..	1	6	6	2	9	24

1800										
0	..	..	..	..	..	..	22	..	5	..
1.2	..	..	..	..	..	..	2	4	7	13
3.4	..	..	..	..	..	2	..	..	1	3
5.6	..	..	..	..	..	1	2	1	4	..
7.8	..	1	..	..	1	1	..	2	..	5
Total	..	1	..	..	1	3	3	8	9	25

0000 July 1953										
0	..	..	..	..	..	..	21	..	11	..
1.2	..	..	..	1	..	..	3	4	3	11
3.4	..	..	..	..	..	1	..	1	..	2
5.6	..	..	..	..	..	1	1	2	..	4
7.8	..	..	..	..	1	..	2	..	..	3
Total	..	..	..	1	1	1	7	6	4	20

0600										
0	..	..	..	..	..	..	21	..	6	..
1.2	..	..	..	..	..	..	1	3	5	9
3.4	..	..	..	..	..	1	2	..	..	5
5.6	..	..	..	..	..	..	..	1	2	3
7.8	..	..	1	..	1	1	3	1	1	8
Total	..	..	1	..	1	2	6	7	8	21

Table 14 (B) (cont.)

1200										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	22	..	5	..
1.2	1	..	2	..	..	..	2	3	7	15
3.4	..	..	..	..	..	1	2	2	..	5
5.6	..	..	..	..	..	..	..	1	1	2
7.8	..	..	..	1	..	..	..	2	1	4
Total	1	..	2	1	..	1	4	8	9	26

1800										
0	..	..	..	..	..	..	24	..	10	..
1.2	..	..	1	..	..	3	..	5	5	14
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	1	2	1	4
7.8	..	..	..	..	..	1	1	..	..	2
Total	..	..	1	..	..	4	2	8	6	21

0000 August 1953										
0	..	..	..	..	..	..	20	..	5	..
1.2	..	..	..	..	..	1	4	6	4	15
3.4	..	..	..	..	..	..	..	1	2	3
5.6	..	..	..	..	..	1	1	..	1	3
7.8	..	..	..	..	..	2	2	1	..	5
Total	..	..	..	..	..	4	7	8	7	26

0600										
0	..	..	..	..	..	..	24	..	10	..
1.2	..	..	..	..	..	..	..	2	3	5
3.4	..	..	..	..	..	..	..	3	1	4
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	..	1	1	1	2	2	..	4	11
Total	..	..	1	1	1	2	2	6	8	21

1200										
0	..	..	..	..	..	..	23	..	12	..
1.2	..	..	..	..	..	1	1	2	1	5
3.4	..	..	..	..	..	1	..	2	3	6
5.6	..	..	..	1	..	1	1	..	2	5
7.8	..	..	..	..	..	1	1	..	1	3
Total	..	..	..	1	..	4	3	4	7	19

1800										
0	..	..	..	..	..	..	25	..	10	..
1.2	..	..	..	..	1	1	1	2	6	11
3.4	..	..	..	..	..	1	1	2	1	4
5.6	..	..	..	..	..	1	..	1	..	2
7.8	..	..	..	..	1	..	..	1	2	4
Total	..	..	..	..	2	2	2	6	9	21

0000 September 1953										
0	..	..	..	..	..	..	21	..	12	..
1.2	..	..	..	..	..	..	1	2	1	4
3.4	..	..	..	..	..	..	..	2	2	4
5.6	..	..	..	..	1	..	1	..	..	4
7.8	..	..	1	2	1	1	1	..	..	6
Total	..	..	1	2	2	1	3	5	4	18

0600										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	25	..	11	..
1.2	..	..	..	..	..	..	..	1	3	4
3.4	..	..	..	..	..	..	..	1	1	2
5.6	..	..	..	..	..	1	..	..	5	6
7.8	..	..	1	1	1	1	..	1	2	7
Total	..	..	1	1	1	2	..	3	11	19

1200										
0	..	..	..	..	..	..	25	..	8	..
1.2	..	..	..	..	..	..	1	1	4	6
3.4	..	..	..	1	..	..	..	1	1	3
5.6	..	..	..	..	..	1	..	1	1	3
7.8	1	..	..	..	1	..	..	1	7	10
Total	1	..	..	1	1	1	1	4	13	22

1800										
0	..	..	..	..	..	..	22	..	8	..
1.2	..	..	..	..	..	1	..	..	5	6
3.4	..	..	..	..	..	1	1	2	4	8
5.6	..	..	..	..	..	..	1	..	1	2
7.8	1	..	..	..	2	1	..	..	2	6
Total	1	..	..	..	2	3	2	2	12	22

0000 October 1953										
0	..	..	..	..	..	..	19	..	16	..
1.2	..	..	..	..	1	..	..	..	..	1
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	1	..	..	1	..	2
7.8	..	2	1	1	2	1	3	..	2	12
Total	..	2	1	1	4	1	3	1	2	15

0600										
0	..	..	..	..	..	..	16	..	2	..
1.2	..	..	..	..	..	..	..	1	5	6
3.4	..	..	..	..	..	1	..	1	..	2
5.6	..	..	..	..	..	..	1	..	1	2
7.8	1	1	2	2	2	2	3	4	2	19
Total	1	1	2	2	2	3	4	6	8	29

1200										
0	..	..	..	..	..	..	16	..	1	..
1.2	..	..	..	..	..	..	..	2	3	5
3.4	..	..	..	..	..	..	1	..	..	1
5.6	..	..	..	1	..	..	1	1	1	4
7.8	3	2	1	1	1	1	1	8	2	20
Total	3	2	1	2	1	1	3	11	6	30

1800										
0	..	..	..	..	..	..	17	..	2	..
1.2	..	..	..	..	..	..	..	1	8	9
3.4	..	..	..	..	..	1	..	2	..	3
5.6	..	..	..	..	..	..	..	2	1	3
7.8	..	2	2	3	2	3	1	1	..	14
Total	..	2	2	3	3	3	1	6	9	29

Table 14 (B) (cont.)

0000 November 1953										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	21	..	12	..
1.2	..	..	..	..	..	..	1	1	1	3
3.4	..	..	..	..	..	..	1	1	..	2
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	1	2	2	2	..	..	4	1	12
Total	..	1	2	2	2	..	2	7	2	18

0600										
0	..	..	..	..	..	..	23	..	10	..
1.2	..	..	..	..	..	..	..	1	4	5
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	1	..	1	..	2
7.8	..	..	..	3	1	1	1	3	3	12
Total	..	..	..	3	1	2	1	6	7	20

1200										
0	..	..	..	..	..	..	17	..	7	..
1.2	..	..	..	..	1	..	..	..	5	6
3.4	..	..	..	..	..	..	..	..	1	1
5.6	..	..	..	1	..	..	1	..	1	3
7.8	..	2	1	3	..	2	2	2	1	13
Total	..	2	1	4	1	2	3	2	8	23

1800										
0	..	..	..	..	..	..	20	..	8	..
1.2	..	..	..	..	..	..	..	1	7	8
3.4	..	..	..	..	..	1	..	..	..	1
5.6	..	..	..	..	..	..	..	2	..	2
7.8	..	3	1	1	..	1	3	1	1	11
Total	..	3	1	1	..	2	3	4	8	22

0000 December 1953										
0	..	..	..	..	..	..	22	..	13	..
1.2	..	..	..	..	..	..	..	2	2	4
3.4	..	..	..	..	..	..	1	2	..	..
5.6	..	..	..	..	..	..	..	..	..	..
7.8	1	1	2	..	1	..	3	3	..	11
Total	1	1	2	..	1	..	4	7	2	18

0600										
0	..	..	..	..	..	..	23	..	11	..
1.2	..	..	..	..	..	..	..	1	3	4
3.4	..	..	..	..	..	..	..	2	..	2
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	1	1	2	..	2	2	3	2	13
Total	..	1	1	2	..	2	2	7	5	20

1200										
0	..	..	..	..	..	..	21	..	12	..
1.2	..	..	..	..	..	..	..	2	1	3
3.4	..	..	..	..	..	1	..	2	1	4
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	1	1	2	1	3	1	3	..	12
Total	..	1	1	2	1	4	1	7	2	19

1800										
0	..	..	..	..	..	..	25	..	14	..
1.2	..	..	..	..	..	..	..	1	2	3
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	1	1	2
7.8	..	2	1	2	1	..	..	4	1	11
Total	..	2	1	2	1	..	..	7	4	17

0000 January 1954										
0	..	..	..	..	..	..	29	..	18	..
1.2	..	..	..	..	..	..	..	1	2	3
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	1	..	1	..	5	2	9
Total	..	..	..	1	..	1	..	7	4	13

0600										
0	..	..	..	..	..	..	27	..	20	..
1.2	..	..	..	..	..	..	..	..	..	..
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	1	..	1	2	5	1	10
Total	..	..	..	1	..	1	2	6	1	11

1200										
0	..	..	..	..	..	..	27	..	16	..
1.2	..	..	..	..	..	..	..	5	5	..
3.4	..	..	..	..	..	..	..	2	..	2
5.6	..	..	..	..	..	..	..	2	..	2
7.8	..	..	..	1	..	..	3	2	..	6
Total	..	..	..	1	..	..	3	6	5	15

1800										
0	..	..	..	..	..	..	28	..	12	..
1.2	..	..	..	..	..	..	..	2	6	8
3.4	..	..	..	..	..	..	1	1	1	3
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	1	..	1	..	..	..	4	1	7
Total	..	1	..	1	..	..	1	8	8	19

0000 February 1954										
0	..	..	..	..	..	..	20	..	10	..
1.2	..	..	..	..	..	..	1	1	2	4
3.4	..	..	..	..	..	1	..	1	..	2
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	1	3	1	..	1	5	..	..	11
Total	..	1	3	1	..	1	2	8	2	18

0600										
0	..	..	..	..	..	..	21	..	16	..
1.2	..	..	..	..	..	..	..	1	..	1
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	1	..	3	1	..	2	3	..	10
Total	..	1	..	3	1	..	2	5	..	12

Table 14 (B) (cont.)

1200										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	18	..	7	..
1.2	..	..	..	..	..	1	..	..	4	5
3.4	..	..	..	..	..	..	..	3	..	3
5.6	..	..	..	..	..	..	1	..	1	2
7.8	..	1	..	2	2	..	3	3	..	11
Total	..	1	..	2	2	1	4	6	5	21

1800										
0	..	..	..	..	..	..	17	..	8	..
1.2	..	..	..	..	..	..	..	3	1	4
3.4	..	..	..	..	..	..	1	3	..	4
5.6	..	1	..	1	..	1	..	..	..	4
7.8	..	1	..	1	1	1	2	1	1	8
Total	..	2	..	2	1	2	4	7	2	20

0000 March 1954										
0	..	..	..	..	..	..	22	..	16	..
1.2	..	..	..	..	..	2	2	2	1	7
3.4	..	..	..	..	..	..	1	..	..	1
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	..	..	1	..	..	3	..	2	6
Total	..	..	..	1	..	2	6	3	3	15

0600										
0	..	..	..	..	..	..	26	..	18	..
1.2	..	..	..	..	..	..	1	1	2	4
3.4	..	..	..	..	..	1	..	2	..	3
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	1	..	1	..	1	3	..	6
Total	..	..	1	..	1	1	2	6	2	13

1200										
0	..	..	..	..	..	..	24	..	13	..
1.2	..	..	1	..	..	..	1	..	3	5
3.4	..	..	..	..	..	..	2	5	1	8
5.6	..	..	..	..	..	..	2	1	..	3
7.8	..	..	..	..	..	..	1	1	..	2
Total	..	..	1	..	..	..	6	7	4	18

1800										
0	..	..	..	..	..	..	25	..	13	..
1.2	..	..	..	..	..	..	..	3	2	5
3.4	..	..	..	..	..	..	1	2	1	4
5.6	..	..	..	..	..	..	2	..	1	3
7.8	..	..	..	..	1	..	2	3	..	6
Total	..	..	..	..	1	..	5	8	4	18

0000 April 1954										
0	..	..	..	..	..	..	25	..	15	..
1.2	..	..	..	..	..	..	1	2	5	8
3.4	..	..	..	..	..	..	1	..	1	2
5.6	..	..	..	..	..	..	1	..	..	1
7.8	..	..	..	..	2	..	..	2	..	4
Total	..	..	..	..	2	..	3	4	6	15

0600										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	24	..	18	..
1.2	..	..	..	..	..	..	3	1	1	5
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	..	1	1	2
7.8	..	..	..	..	..	..	2	1	..	3
Total	..	..	..	..	..	..	6	3	3	12

1200										
0	..	..	..	..	..	..	27	..	19	..
1.2	..	..	..	..	..	..	..	2	2	4
3.4	..	..	..	..	..	1	..	..	..	1
5.6	..	..	..	..	..	..	..	..	1	1
7.8	..	..	..	..	1	..	1	2	1	5
Total	..	..	..	..	1	1	1	4	4	11

1800										
0	..	..	..	..	..	..	26	..	20	..
1.2	..	..	..	..	..	..	1	..	3	4
3.4	..	..	..	..	1	..	..	1	..	2
5.6	..	..	..	..	1	..	..	..	1	2
7.8	..	..	..	..	..	1	..	1	..	2
Total	..	..	..	..	2	1	1	2	4	10

0600 May 1954										
0	..	..	..	..	..	..	22	..	8	..
1.2	..	..	..	..	1	..	1	1	3	4
3.4	..	..	..	..	..	..	2	1	2	5
5.6	..	..	..	..	..	1	2	2	1	4
7.8	..	..	..	..	1	1	2	3	3	10
Total	..	..	..	..	2	1	6	7	9	23

1200										
0	..	..	..	..	..	..	20	..	9	..
1.2	..	..	..	..	..	1	1	2	1	5
3.4	..	..	..	..	1	..	..	1	1	3
5.6	..	..	..	..	1	..	1	2	..	4
7.8	..	..	..	..	..	3	3	2	2	10
Total	..	..	..	..	2	4	5	7	4	22

1800										
0	..	..	..	..	..	..	24	..	12	..
1.2	..	..	..	..	..	..	..	5	5	5
3.4	..	..	..	..	..	1	2	..	1	4
5.6	..	..	..	..	..	1	..	..	2	3
7.8	..	..	..	..	..	1	2	3	1	7
Total	..	..	..	..	..	3	4	3	9	19

0600 June 1954										
0	..	..	..	..	..	..	15	..	4	..
1.2	..	..	..	..	..	1	1	3	2	7
3.4	..	..	..	..	..	1	..	2	1	4
5.6	..	..	..	..	..	1	..	..	..	1
7.8	..	..	..	1	2	6	2	3	..	14
Total	..	..	..	1	2	9	3	8	3	26

Table 14 (B) (cont.)

1200										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	14	..	4	..
1.2	..	..	..	..	1	1	2	3	..	9
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	1	1	1	3
7.8	..	..	..	..	4	2	5	2	..	13
Total	..	..	..	..	5	3	8	7	3	26

1800										
0	..	..	..	..	..	..	10	..	6	..
1.2	..	..	..	..	..	4	4	2	..	10
3.4	..	..	..	..	..	..	2	..	..	2
5.6	..	..	..	..	..	..	3	1	..	4
7.8	..	..	..	..	4	1	2	1	..	8
Total	..	..	..	..	4	5	11	4	..	24

0000 July 1954										
0	..	..	..	..	..	..	11	..	9	..
1.2	..	..	..	..	..	..	7	..	..	7
3.4	..	..	..	..	..	..	3	1	..	4
5.6	..	..	..	..	..	..	3	1	..	4
7.8	..	..	..	2	..	3	2	..	..	7
Total	..	..	..	2	..	3	15	2	..	22

0600										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	12	..	8	..
1.2	..	..	..	..	..	1	3	3	..	7
3.4	..	..	..	..	..	..	1	1	..	2
5.6	..	..	..	..	..	1	1	1	..	2
7.8	..	..	..	1	1	2	8	..	..	12
Total	..	..	..	1	1	4	13	4	..	23

1200										
0	..	..	..	..	..	..	18	..	11	..
1.2	..	..	..	..	..	1	2	1	1	5
3.4	..	..	..	..	..	..	1	1	..	2
5.6	..	..	..	..	..	..	..	2	..	3
7.8	..	..	..	2	1	4	1	2	..	10
Total	..	..	..	2	2	5	4	6	1	20

1800										
0	..	..	..	..	..	..	13	..	11	..
1.2	..	..	..	..	..	..	5	..	1	6
3.4	..	..	..	..	..	1	2	1	..	4
5.6	..	..	..	..	..	..	3	..	..	3
7.8	..	..	..	1	2	3	1	..	..	7
Total	..	..	..	1	2	4	11	1	1	20

Table 14 (N)

“Northice”

Variation of amount of cloud with height of cloud

0000 November 1952										
Amount Oktas	HEIGHT (Code Fig.)									
	00	01	02 to 03	04 to 09	10 to 19	20 to 39	40 to 79	80 to 85	86 to 89	Total
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	28	..	10	..
1.2	..	..	..	..	..	..	..	1	14	15
3.4	..	..	..	..	..	..	..	..	1	1
5.6	..	..	..	..	..	..	..	..	1	1
7.8	..	1	..	1	..	..	..	..	1	3
Total	..	1	..	1	..	..	..	1	17	20

0600										
0	..	..	..	..	..	..	28	..	9	..
1.2	..	..	..	..	..	..	1	..	13	14
3.4	..	..	..	..	..	..	1	..	2	3
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	1	..	..	1	2	4
Total	..	..	..	..	1	..	2	1	17	21

1200										
Amount Oktas	HEIGHT (Code Fig.)									
	00	01	02 to 03	04 to 09	10 to 19	20 to 39	40 to 79	80 to 85	86 to 89	Total
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	27	..	3	..
1.2	..	..	..	..	..	..	..	5	14	19
3.4	..	..	..	..	..	..	2	1	1	4
5.6	..	..	..	..	..	1	..	..	1	2
7.8	..	..	..	..	..	1	..	..	1	2
Total	..	..	..	..	..	2	2	6	17	27

1800										
0	..	..	..	..	..	..	25	..	2	..
1.2	..	..	..	..	2	..	..	3	13	18
3.4	..	..	..	..	..	..	..	..	3	3
5.6	..	..	..	..	..	..	..	..	1	1
7.8	..	..	..	..	1	1	1	1	2	6
Total	..	..	..	..	3	1	1	4	19	28

Table 14 (N) (cont.)

0000 December 1952										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	29	..	10	..
1.2	..	..	..	..	..	..	..	1	8	9
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	2	2	6	10
Total	..	..	..	..	..	..	2	3	16	21
0600										
0	..	..	..	..	..	..	28	..	12	..
1.2	..	..	..	..	..	..	..	1	8	9
3.4	..	..	..	..	..	..	1	..	1	2
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	2	2	4	8
Total	..	..	..	..	..	..	3	3	13	19
1200										
0	..	..	..	..	..	..	30	..	8	..
1.2	..	..	..	..	..	..	..	2	7	9
3.4	..	..	..	..	..	..	..	1	1	2
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	1	2	9	12
Total	..	..	..	..	..	..	1	5	17	23
1800										
0	..	..	..	..	..	..	31	..	10	..
1.2	..	..	..	..	..	..	..	3	7	10
3.4	..	..	..	..	..	..	..	..	1	1
5.6	..	..	..	..	..	..	..	..	3	3
7.8	..	..	..	..	..	..	..	1	6	7
Total	..	..	..	..	..	..	..	4	17	21
0000 January 1953										
0	..	..	..	..	..	..	29	..	11	..
1.2	..	..	..	..	..	..	..	1	6	7
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	..	2	2
7.8	..	..	1	1	..	..	..	2	6	10
Total	..	..	1	1	..	..	..	4	14	20
0600										
0	..	..	..	..	..	..	27	..	11	..
1.2	..	..	..	..	..	..	..	..	7	7
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	..	1	1
7.8	1	..	..	2	..	..	1	..	7	11
Total	1	..	..	2	..	..	1	1	15	20
1200										
0	..	..	..	..	..	..	27	..	3	..
1.2	..	..	..	..	..	..	..	3	14	17
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	..	3	3
7.8	..	..	1	2	1	..	..	2	2	8
Total	..	..	1	2	1	..	..	5	19	28

1800										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	24	..	6	..
1.2	..	..	..	..	..	..	..	2	11	13
3.4	..	..	..	..	..	..	..	..	1	1
5.6	..	..	..	1	..	1	..	2	2	4
7.8	..	..	1	1	1	..	2	2	..	7
Total	..	..	1	2	1	1	2	6	12	25
0000 February 1953										
0	..	..	..	..	..	..	27	..	16	..
1.2	..	..	..	..	..	..	..	..	8	8
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	1	..	3	4
Total	..	..	..	..	..	..	1	..	11	12
0600										
0	..	..	..	..	..	..	27	..	14	..
1.2	..	..	..	..	..	..	..	..	8	8
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	..	..	1	..	..	..	..	2	3
Total	..	..	..	1	..	..	..	1	12	14
1200										
0	..	..	..	..	..	..	26	..	3	..
1.2	..	..	..	..	..	..	1	1	15	17
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	1	..	..	..	..	2	4	7
Total	..	..	1	..	..	..	1	4	19	25
1800										
0	..	..	..	..	..	..	26	..	2	..
1.2	..	..	..	..	..	..	..	1	18	19
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	1	..	1	2
7.8	..	..	1	..	..	..	..	2	1	4
Total	..	..	1	..	..	..	1	4	20	26
0000 March 1953										
0	..	..	..	..	..	..	29	..	13	..
1.2	..	..	..	..	..	..	..	..	10	10
3.4	..	..	..	..	..	1	..	..	..	1
5.6	..	..	..	..	..	..	..	2	2	4
7.8	..	..	..	..	..	1	..	1	1	3
Total	..	..	..	..	..	2	..	3	13	18
0600										
0	..	..	..	..	..	..	27	..	13	..
1.2	..	..	..	..	..	..	..	..	5	5
3.4	..	..	..	..	..	1	..	..	1	2
5.6	..	..	..	..	..	..	..	1	2	3
7.8	1	..	..	..	..	2	..	1	4	8
Total	1	..	..	..	..	3	..	2	12	18

Table 14 (N) (cont.)

1200										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	27	..	6	..
1.2	..	..	..	..	..	..	..	..	8	8
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	..	1	3	4
7.8	1	..	..	..	..	2	1	2	5	11
Total	1	..	..	..	..	2	1	3	18	25

1800										
0	..	..	..	..	..	..	25	..	5	..
1.2	..	..	..	..	..	..	..	..	7	7
3.4	..	..	..	..	..	..	..	1	4	5
5.6	..	..	..	1	..	..	..	..	6	7
7.8	..	..	2	..	..	1	2	1	1	7
Total	..	..	2	1	..	1	2	2	18	26

0000 April 1953										
0	..	..	..	..	..	..	20	..	2	..
1.2	..	..	..	..	..	..	2	..	12	14
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	2	..	2	4
7.8	..	..	1	..	3	2	..	..	2	8
Total	..	..	1	..	3	2	4	..	18	28

0600										
0	..	..	..	..	..	..	18	..	3	..
1.2	..	..	..	..	..	1	..	..	10	11
3.4	..	..	..	..	..	2	1	..	..	3
5.6	..	..	..	..	..	2	1	..	4	7
7.8	..	..	..	..	..	3	2	..	1	6
Total	..	..	..	..	..	8	4	..	15	27

1200										
0	..	..	..	..	..	..	22	..	3	..
1.2	..	..	..	..	1	1	..	..	13	15
3.4	..	..	..	..	..	1	..	..	1	2
5.6	..	..	..	..	..	..	..	1	1	2
7.8	..	..	..	..	1	4	..	..	3	8
Total	..	..	..	..	2	6	..	1	18	27

1800										
0	..	..	..	..	..	..	25	..	4	..
1.2	..	..	..	..	1	1	1	..	11	14
3.4	..	..	..	..	..	..	..	..	3	3
5.6	..	..	..	..	..	..	..	..	2	2
7.8	..	..	1	..	..	1	..	1	4	7
Total	..	..	1	..	1	2	1	1	20	26

0600 May 1953										
0	..	..	..	..	..	..	25	..	10	..
1.2	..	..	..	..	..	..	..	..	10	10
3.4	..	..	..	..	1	..	..	..	..	1
5.6	..	..	..	..	1	1	1	1	3	7
7.8	..	1	..	1	..	..	..	..	1	3
Total	..	1	..	1	2	1	1	1	14	21

1200										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	24	..	8	..
1.2	..	..	..	..	..	..	..	..	8	8
3.4	..	..	..	..	1	1	1	..	2	5
5.6	..	..	..	..	1	..	..	1	4	6
7.8	..	..	..	..	..	3	..	..	1	4
Total	..	..	..	..	2	4	1	1	15	23

1800										
0	..	..	..	..	..	..	22	..	5	..
1.2	..	..	..	..	..	..	..	..	11	11
3.4	..	..	..	..	1	..	2	..	4	7
5.6	..	..	..	..	..	..	1	..	1	2
7.8	..	..	..	1	..	2	..	..	1	6
Total	..	..	..	1	1	2	5	..	17	26

0600 June 1953										
0	..	..	..	..	..	..	23	..	11	..
1.2	..	..	..	..	..	..	..	..	2	2
3.4	..	..	..	..	..	..	..	..	5	5
5.6	..	..	..	..	..	..	..	..	2	2
7.8	..	..	..	..	..	5	2	1	2	10
Total	..	..	..	..	..	5	2	1	11	19

1200										
0	..	..	..	..	..	..	23	..	13	..
1.2	..	..	..	..	..	..	..	1	..	3
3.4	..	..	..	..	..	..	1	..	1	2
5.6	..	..	..	..	..	..	..	..	3	3
7.8	..	1	..	..	1	..	4	..	3	9
Total	..	1	..	..	1	..	5	1	9	17

1800										
0	..	..	..	..	..	..	23	..	12	..
1.2	..	..	..	..	..	..	1	..	6	7
3.4	..	..	..	..	..	..	..	1	3	4
5.6	..	..	..	..	1	..	..	..	..	1
7.8	..	..	..	1	1	4	..	..	..	6
Total	..	..	..	1	2	4	1	1	9	18

0600 July 1953										
0	..	..	..	..	..	..	18	..	3	..
1.2	..	..	..	..	..	1	1	3	9	14
3.4	..	..	..	..	..	..	1	..	2	3
5.6	..	..	..	..	..	..	..	..	1	1
7.8	..	1	1	..	1	4	3	..	..	10
Total	..	1	1	..	1	5	5	3	12	28

1200										
0	..	..	..	..	..	..	20	..	1	..
1.2	..	1	..	..	..	..	..	2	11	14
3.4	..	..	..	..	..	..	..	..	3	3
5.6	..	..	..	..	..	..	..	..	2	2
7.8	..	..	..	..	..	7	3	1	..	11
Total	..	1	..	..	..	7	3	3	16	30

Table 14 (N) (cont.)

1800										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	18	..	1	..
1.2	..	..	..	..	..	2	1	1	13	17
3.4	..	..	..	..	..	1	1	..	3	5
5.6	..	..	..	..	..	1	..	..	..	1
7.8	..	1	1	..	..	4	1	..	..	7
Total	..	1	1	..	..	8	3	1	16	30

0600 August 1953										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	22	..	8	..	..
1.2	..	..	..	..	..	1	3	4	4	12
3.4	..	1	..	..	..	..	..	1	2	..
5.6	..	..	..	..	..	..	2	..	2	7
7.8	..	..	..	..	1	2	1	3	..	7
Total	..	1	..	..	1	3	4	9	5	23

1200										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	20	..	8	..	..
1.2	..	..	..	..	..	2	2	4	8	..
3.4	..	..	..	..	..	..	1	3	4	..
5.6	..	..	..	..	..	1	1	..	2	..
7.8	..	..	..	..	1	7	1	..	9	..
Total	..	..	..	..	1	10	5	7	23	..

1800										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	25	..	7	..	..
1.2	..	..	..	..	..	1	..	5	6	..
3.4	..	..	..	..	..	..	2	4	6	..
5.6	..	..	..	..	..	2	2	2	6	..
7.8	..	1	..	..	1	1	3	..	6	..
Total	..	1	..	..	1	4	7	11	24	..

0600 September 1953										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	21	..	7	..	..
1.2	..	..	..	..	..	..	..	8	8	..
3.4	..	..	..	..	..	..	..	2	2	..
5.6	..	..	..	..	1	..	..	1	2	..
7.8	..	..	2	1	4	1	2	1	11	..
Total	..	..	2	1	5	1	2	12	23	..

1200										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	21	..	8	..	..
1.2	..	..	..	1	..	..	..	7	8	..
3.4	..	..	1	..	1	..	1	..	3	..
5.6	..	..	..	..	..	..	..	1	1	..
7.8	..	1	..	1	3	..	2	2	10	..
Total	..	1	..	2	4	..	3	10	22	..

1800										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	22	..	6	..	..
1.2	..	..	..	..	..	..	2	8	10	..
3.4	..	..	..	1	..	1	..	2	3	..
5.6	..	..	..	..	..	..	1	1	2	..
7.8	1	1	..	2	2	1	1	1	9	..
Total	1	1	..	2	3	1	4	12	24	..

0600 October 1953										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	29	..	12	..
1.2	..	..	..	..	..	..	..	4	8	12
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	1	..	..	..	1	..	2
7.8	..	..	..	1	..	..	..	4	..	5
Total	..	..	..	2	..	..	..	9	8	19

1200										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	25	..	5	..	..
1.2	..	..	..	1	..	..	3	6	10	..
3.4	..	..	..	1	..	..	..	2	3	..
5.6	..	..	..	..	..	..	2	2	4	..
7.8	1	..	..	3	..	..	4	1	9	..
Total	1	..	..	5	..	..	9	11	26	..

1800										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	28	..	7	..	..
1.2	..	..	..	..	..	..	4	7	11	..
3.4	..	..	..	..	..	..	2	1	3	..
5.6	..	..	..	..	..	..	2	3	5	..
7.8	1	..	..	1	1	..	2	..	5	..
Total	1	..	..	1	1	..	10	11	24	..

0600 November 1933										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	28	..	19	..	..
1.2	..	..	..	..	..	..	2	1	3	..
3.4	..	..	..	..	..	..	..	1	1	..
5.6	..	..	..	..	..	..	..	..	..	..
7.8	1	..	..	..	1	..	3	2	7	..
Total	1	..	..	..	1	..	5	4	11	..

1200										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	28	..	14	..	..
1.2	..	..	..	..	..	1	3	4	8	..
3.4	..	..	..	..	..	..	5	..	5	..
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	1	2	..	3	..
Total	..	..	..	..	..	2	10	4	16	..

1800										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	29	..	14	..	..
1.2	..	..	..	..	..	1	4	..	5	..
3.4	..	..	..	..	..	..	4	1	5	..
5.6	..	..	..	..	..	..	1	..	1	..
7.8	..	..	..	..	..	5	..	..	5	..
Total	..	..	..	..	..	1	14	1	16	..

0000 December 1953										
0	1.2	3.4	5.6	7.8	Total	1	2	3	4	5
0	..	..	..	..	..	29	..	11	..	..
1.2	..	..	..	..	..	..	8	1	9	..
3.4	..	..	..	..	..	..	1	1	2	..
5.6	..	..	..	..	1	..	2	..	3	..
7.8	..	..	..	..	1	..	3	1	5	..
Total	..	..	..	..	2	..	14	3	19	..

Table 14 (N) (cont.)

	1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	..	28	..	14	..
1.2	..	..	..	..	..	..	..	..	4	2	6
3.4	..	..	..	..	..	..	..	..	3	..	3
5.6	..	..	..	..	..	..	..	..	2	..	2
7.8	1	..	..	..	..	1	..	1	2	1	6
Total	1	..	..	..	..	1	..	1	11	3	17

1200										
0	..	..	..	..	..	..	27	..	15	..
1.2	..	..	..	..	..	..	..	4	2	6
3.4	..	..	..	..	..	..	..	2	1	3
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	..	..	..	2	..	2	2	..	6
Total	..	..	..	..	2	..	2	9	3	16

1800										
0	..	..	..	..	..	..	28	..	20	..
1.2	..	..	..	..	..	..	..	3	1	4
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	1	..	1
7.8	1	..	..	..	..	..	2	3	..	6
Total	1	..	..	..	..	..	2	7	1	11

0000							January 1954			
0	..	..	..	..	..	..	28	..	16	..
1.2	..	..	..	..	..	..	..	2	3	5
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	..	1	1	1	..	..	3	1	7
Total	..	..	1	1	1	..	..	5	6	15

0600											
0	..	..	..	..	..	..	28	..	19	..	
1.2	..	..	..	..	..	..	..	..	6	6	
3.4	..	..	..	..	..	..	..	..	..	..	
5.6	..	..	..	..	..	..	..	..	1	1	
7.8	..	..	..	2	..	..	1	2	..	5	
Total	..	..	..	2	..	..	1	2	7	12	

1200											
0	..	..	..	..	..	..	29	..	9	..	
1.2	..	..	..	..	..	1	..	4	10	15	
3.4	..	..	..	..	..	..	..	2	1	3	
5.6	..	..	..	..	..	..	1	1	1	3	
7.8	..	..	..	..	..	..	..	..	1	1	
Total	..	..	..	..	..	1	1	7	13	22	

1800											
0	..	..	..	..	..	..	28	..	11	..	
1.2	..	..	..	..	..	..	1	5	7	13	
3.4	..	..	..	..	..	..	1	1	..	2	
5.6	..	..	..	..	..	..	..	1	..	1	
7.8	..	..	..	..	1	..	..	2	1	4	
Total	..	..	..	..	1	..	2	9	8	20	

0000 February 1954										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	26	..	13	..
1.2	..	..	..	..	..	..	..	2	1	3
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	2	..	2
7.8	..	..	..	..	..	1	1	6	1	9
Total	..	..	..	..	..	1	1	11	2	15

0600										
0	..	..	..	..	..	..	24	..	15	..
1.2	..	..	..	..	..	..	..	2	2	4
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	..	1	..	2	1	..	4	..	8
Total	..	..	1	..	2	1	..	7	2	13

1200										
0	..	..	..	..	..	..	23	..	12	..
1.2	..	..	..	1	..	..	..	5	..	6
3.4	..	..	..	..	..	..	..	1	1	2
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	1	1	1	1	2	2	8
Total	..	..	..	2	1	1	1	8	3	16

1800											
0	..	..	..	..	..	..	26	..	16	..	
1.2	..	..	..	..	..	..	..	1	4	5	
3.4	..	..	..	..	..	..	..	2	3	5	
5.6	..	..	..	..	..	..	..	..	..	..	
7.8	..	..	..	..	1	..	1	..	..	2	
Total	..	..	..	..	1	..	1	3	7	12	

0000							March 1954			
0	..	..	..	..	..	..	31	..	22	..
1.2	..	..	..	..	..	..	..	5	..	5
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	..	..	..	..	..	..	2	1	3
Total	..	..	..	..	..	..	..	8	1	9

[illegible][illegible]

Table 14 (N) (cont.)

1800										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	31	..	22	..
1.2	..	..	..	..	..	..	..	2	2	4
3.4	..	..	..	..	..	..	..	3	1	4
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	..	1	..	1
Total	..	..	..	..	..	..	..	6	3	9

0000 April 1954										
0	..	..	..	..	..	..	30	..	22	..
1.2	..	..	..	..	..	..	..	3	..	3
3.4	..	..	..	..	..	..	..	1	1	2
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	..	2	1	3
Total	..	..	..	..	..	..	..	6	2	8

0600										
0	..	..	..	..	..	..	30	..	19	..
1.2	..	..	..	..	..	..	..	4	1	5
3.4	..	..	..	..	..	..	..	1	..	1
5.6	..	..	..	..	..	..	..	..	2	2
7.8	..	..	..	..	..	..	..	2	1	3
Total	..	..	..	..	..	..	..	7	4	11

1200										
0	..	..	..	..	..	..	28	..	18	..
1.2	..	..	..	..	..	..	..	..	2	1
3.4	..	..	..	..	..	..	..	..	2	2
5.6	..	..	..	..	..	..	..	..	2	2
7.8	1	..	..	..	..	1	..	2	3	7
Total	1	..	..	..	..	1	..	2	8	12

1800										
0	..	..	..	..	..	..	30	..	21	..
1.2	..	..	..	..	..	..	..	..	3	3
3.4	..	..	..	..	..	..	..	..	1	1
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	..	..	..	..	..	2	3	5
Total	..	..	..	..	..	..	..	2	7	9

0000 May 1954										
0	..	..	..	..	..	..	25	..	9	..
1.2	..	..	..	..	..	..	1	6	7	14
3.4	..	..	..	..	..	..	1	1	1	3
5.6	..	..	..	..	..	1	..	1	..	2
7.8	..	..	..	..	..	3	..	..	..	3
Total	..	..	..	..	..	4	2	8	8	22

0600										
0	..	..	..	..	..	..	25	..	13	..
1.2	..	..	..	..	..	..	1	7	4	12
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	1	..	..	..	1
7.8	..	..	..	..	..	3	1	1	..	5
Total	..	..	..	..	..	4	2	8	4	18

1200										
1	2	3	4	5	6	7	8	9	10	11
0	..	..	..	..	..	..	25	..	14	..
1.2	..	..	..	..	..	..	..	2	4	6
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	1	2	3
7.8	..	..	..	..	..	3	3	2	..	8
Total	..	..	..	..	..	3	3	5	6	17

1800										
0	..	..	..	..	..	..	27	..	12	..
1.2	..	..	..	..	..	..	..	4	8	12
3.4	..	..	..	..	..	..	..	..	1	1
5.6	..	..	..	..	..	..	..	1	..	1
7.8	..	..	..	1	..	2	1	..	1	5
Total	..	..	..	1	..	2	1	5	10	19

0000 June 1954										
0	..	..	..	..	..	..	24	..	14	..
1.2	..	..	1	..	..	..	..	1	7	9
3.4	..	..	..	..	..	..	..	..	..	..
5.6	..	..	..	..	..	..	..	..	..	..
7.8	..	..	3	..	1	..	1	1	1	7
Total	..	..	4	..	1	..	1	2	8	16

0600										
0	..	..	..	..	..	..	20	..	12	..
1.2	..	..	..	..	..	..	..	1	5	6
3.4	..	..	..	..	..	..	..	..	..	3
5.6	..	..	..	..	..	..	..	..	1	1
7.8	..	..	1	4	2	1	..	..	..	8
Total	..	..	1	4	2	2	1	2	6	18

1200										
0	..	..	..	..	..	..	23	..	11	..
1.2	..	..	..	..	..	..	..	..	5	5
3.4	..	..	..	..	..	..	..	1	3	4
5.6	..	..	..	..	..	..	..	..	1	1
7.8	..	..	..	3	1	2	1	..	2	9
Total	..	..	..	3	1	2	1	1	11	19

1800										
0	..	..	..	..	..	..	25	..	18	..
1.2	..	..	..	..	..	..	..	1	3	4
3.4	..	..	..	..	..	..	1	1	1	3
5.6	..	..	..	..	..	..	..	..	1	1
7.8	..	..	..	1	..	1	2	..	..	4
Total	..	..	..	1	..	1	3	2	5	12

Table 15(B)

Britannia Sö*Diurnal variation of total cloud amount (oktas)*

November 1952								June 1953							
Number of occasions of:—								Number of occasions of:—							
G.M.T.	0	1-2	3-5	6	7	8	9	G.M.T.	0	1-2	3-5	6	7	8	9
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
0000	..	..	..	..	..	..	..	0000	..	..	..	..	..	..	..
0600	18	6	3	1	..	2	..	0600	2	14	1	3	4	6	..
1200	4	17	8	1	..	..	..	1200	4	8	7	3	1	7	..
1800	11	14	..	..	2	3	..	1800	1	14	5	2	3	5	..
Total	33	37	11	2	2	5	..	Total	7	36	13	8	8	18	..
December 1952								July 1953							
0000	..	..	..	..	..	..	..	0000	5	14	5	1	3	3	..
0600	18	9	2	..	..	2	..	0600	4	10	3	3	8	3	..
1200	12	16	1	..	1	1	..	1200	4	12	4	3	7	1	..
1800	13	14	..	..	2	2	..	1800	4	18	2	..	6	1	..
Total	43	39	3	..	3	5	..	Total	17	54	14	7	24	8	..
January 1953								August 1953							
0000	..	..	..	..	..	..	..	0000	4	12	8	..	5	2	..
0600	10	10	3	2	..	3	3	0600	6	9	3	1	9	3	..
1200	1	15	3	..	3	7	2	1200	7	8	8	1	7	..	..
1800	6	13	..	3	1	8	..	1800	7	11	4	1	8	..	..
Total	17	38	6	5	4	18	5	Total	24	40	23	3	29	5	..
February 1953								September 1953							
0000	..	..	..	..	..	..	..	0000	7	8	6	1	2	6	..
0600	12	7	2	1	..	4	2	0600	3	12	3	4	2	6	..
1200	5	15	3	1	1	2	1	1200	3	10	2	2	10	3	..
1800	3	14	2	2	1	6	..	1800	2	12	6	2	5	3	..
Total	20	36	7	4	2	12	3	Total	15	42	17	9	19	18	..
March 1953								October 1953							
0000	..	..	..	..	..	..	..	0000	11	5	1	2	2	10	..
0600	13	8	4	1	..	2	3	0600	2	6	1	2	5	15	..
1200	9	9	7	..	1	4	1	1200	..	4	4	2	9	10	2
1800	7	13	4	1	1	3	2	1800	..	11	4	1	2	13	..
Total	29	30	15	2	2	9	6	Total	13	26	10	7	18	48	2
April 1953								November 1953							
0000	..	..	..	..	..	..	..	0000	11	4	2	1	..	10	2
0600	6	11	7	2	1	3	..	0600	6	9	1	1	2	11	..
1200	4	14	7	1	2	2	..	1200	..	13	2	..	1	12	2
1800	6	13	4	4	2	1	..	1800	1	15	..	..	1	10	3
Total	16	38	18	7	5	6	..	Total	18	41	5	2	4	43	7
May 1953								December 1953							
0000	..	..	..	..	..	..	..	0000	13	4	4	..	..	6	4
0600	5	11	10	1	..	4	..	0600	4	11	2	1	2	9	2
1200	6	9	10	2	..	4	..	1200	4	11	4	..	1	9	2
1800	6	8	12	1	1	3	..	1800	9	8	1	2	1	7	3
Total	17	28	32	4	1	11	..	Total	30	34	11	3	4	31	11

Table 15 (B) (cont.)

January 1954

1	2	3	4	5	6	7	8
0000	13	8	1	..	1	7	1
0600	12	8	1	..	2	7	1
1200	4	17	2	1	1	6	..
1800	5	15	4	..	2	4	1
Total	34	48	8	1	6	24	3

February 1954

0000	10	4	1	1	2	10	..
0600	13	4	1	..	1	7	2
1200	4	8	4	..	4	8	..
1800	3	9	5	1	4	6	..
Total	30	25	11	2	11	31	2

March 1954

0000	13	9	2	1	3	3	..
0600	7	15	3	..	2	4	..
1200	5	12	9	1	2	2	..
1800	6	10	4	3	6	2	..
Total	31	46	18	5	13	11	..

April 1954

0000	11	12	2	1	2	2	..
0600	10	12	3	..	3	2	..
1200	9	14	..	1	3	3	..
1800	10	13	1	3	..	3	..
Total	40	51	6	5	8	10	..

May 1954

1	2	3	4	5	6	7	8
0000	..	..	..	..	..	..	..
0600	7	4	4	3	9	4	..
1200	6	7	4	3	7	4	..
1800	5	12	4	2	6	2	..
Total	18	23	12	8	22	8	..

June 1954

0000	..	..	..	..	..	..	..
0600	1	9	4	1	6	9	..
1200	2	8	4	3	4	9	..
1800	2	9	2	6	8	3	..
Total	5	26	10	10	18	21	..

July 1954

0000	6	9	6	3	1	6	..
0600	5	8	4	1	6	7	..
1200	4	11	4	1	7	4	..
1800	5	9	7	3	3	4	..
Total	20	37	21	8	17	21	..

Table 15 (N)

“Northice”

Diurnal variation of total cloud amount (oktas)

November 1952

Number of occasions of:—								
G.M.T.	0	1-2	3-5	6	7	8	9	
1	2	3	4	5	6	7	8	
0000	9	15	2	..	1	3	..	
0600	9	14	3	..	2	2	..	
1200	3	16	7	..	2	2	..	
1800	2	15	6	1	3	3	..	
Total	23	60	18	1	8	10	..	

December 1952

0000	10	9	2	..	1	9	..
0600	12	9	2	..	..	8	..
1200	8	9	2	..	1	11	..
1800	10	9	1	3	2	6	..
Total	40	36	7	3	4	34	..

January 1953

Number of occasions of:—								
G.M.T.	0	1-2	3-5	6	7	8	9	
1	2	3	4	5	6	7	8	
0000	11	7	1	1	3	8	..	
0600	11	7	2	..	1	10	..	
1200	3	15	3	2	3	4	1	
1800	6	12	4	..	1	8	..	
Total	31	41	10	3	8	30	1	

February 1953

0000	15	9	..	..	1	3	..
0600	13	9	2	1	..	3	..
1200	2	18	1	..	1	6	..
1800	2	18	..	1	3	4	..
Total	32	54	3	2	5	16	..

Table 15 (N) (cont.)

March 1953							
1	2	3	4	5	6	7	8
0000	13	10	2	3	2	1	..
0600	13	5	3	2	2	5	1
1200	6	8	4	1	3	8	1
1800	5	7	6	5	4	3	1
Total	37	30	15	11	11	17	3

April 1953							
0000	2	12	4	4	2	6	..
0600	3	10	6	3	3	5	..
1200	3	14	2	1	3	7	..
1800	4	11	6	1	4	4	..
Total	12	47	18	9	12	22	..

May 1953							
0000	..	..	..	..	..	..	..
0600	3	17	3	1	3	4	..
1200	1	15	5	4	1	5	..
1800	2	14	6	2	3	4	..
Total	6	46	14	7	7	13	..

June 1953							
0000	..	..	..	..	..	..	..
0600	3	10	6	1	7	3	..
1200	2	13	6	1	6	..	2
1800	..	19	4	1	..	5	1
Total	5	42	16	3	13	8	3

July 1953							
0000	..	..	..	..	..	..	..
0600	3	12	5	1	3	6	1
1200	1	14	4	1	6	5	..
1800	1	17	5	..	4	3	1
Total	5	43	14	2	13	14	2

August 1953							
0000	..	..	..	..	..	..	..
0600	6	9	8	1	3	4	..
1200	5	10	6	1	3	6	..
1800	3	9	9	3	5	1	1
Total	14	28	23	5	11	11	1

September 1953							
0000	..	..	..	..	..	..	..
0600	2	13	2	2	6	5	..
1200	5	10	1	3	5	6	..
1800	3	12	2	2	7	3	1
Total	10	35	5	7	18	14	1

October 1953							
0000	..	..	..	..	..	..	..
0600	12	12	..	2	2	3	..
1200	5	9	6	2	3	5	1
1800	7	11	5	3	1	3	1
Total	24	32	11	7	6	11	2

November 1953							
1	2	3	4	5	6	7	8
0000	..	..	..	..	..	..	..
0600	19	3	1	..	..	6	1
1200	8	13	6	..	..	3	..
1800	10	8	7	..	1	4	..
Total	37	24	14	..	1	13	1

December 1953							
0000	12	9	4	1	2	3	..
0600	14	6	4	1	1	4	1
1200	14	7	3	1	..	6	..
1800	16	8	1	..	..	5	1
Total	56	30	12	3	3	18	2

January 1954							
0000	16	5	2	1	2	3	2
0600	19	6	1	..	1	2	2
1200	9	15	4	2	..	1	..
1800	11	13	2	1	1	3	..
Total	55	39	9	4	4	9	4

February 1954							
0000	12	4	2	1	1	8	..
0600	15	4	1	..	2	4	2
1200	8	10	2	..	2	5	1
1800	7	14	5	..	..	2	..
Total	42	32	10	1	5	19	3

March 1954							
0000	22	5	..	..	1	3	..
0600	22	5	2	..	..	2	..
1200	21	2	4	1	..	3	..
1800	22	3	4	..	..	2	..
Total	87	15	10	1	1	10	..

April 1954							
0000	22	3	2	..	1	2	..
0600	19	5	2	1	1	2	..
1200	18	1	4	..	1	5	1
1800	21	3	1	..	..	5	..
Total	80	12	9	1	3	14	1

May 1954							
0000	8	15	3	1	4	..	..
0600	9	15	1	1	3	2	..
1200	7	13	1	2	4	4	..
1800	7	17	2	..	1	4	..
Total	31	60	7	4	12	10	..

June 1954							
0000	2	19	1	1	4	2	1
0600	6	12	4	..	1	6	1
1200	1	15	4	1	2	7	..
1800	3	18	3	2	3	1	..
Total	12	64	12	4	10	16	2

PRECIPITATION

Britannia Sø.

Rainfall and snowfall was measured by a Norwegian type snow-gauge. The cross-section was a 15-cm sided square. The gauge itself fitted into a frame which held also a shield, the top of which was level with the rim of the gauge, 1.5 m above the ground. Two gauges were available so that at the time of measuring snowfall an empty gauge was substituted for the one in use which was taken to an unheated room in the hut. The snow was taken out and weighed quickly so that there should be no loss by sublimation. Rainfall was measured in this gauge in the normal manner.

The object of the shield was to prevent the entry of drifting snow into the gauge. In this it seemed fairly successful aided perhaps by the fact that the gauge was normally above the level of drifting snow. On a few occasions no snow was collected by the gauge when snow was drifting in a strong wind, and the absence of cloud showed that there was no fall of snow.

“Northice”.

The Norwegian-type snow gauge intended for “Northice” did not arrive safely and no measurements of snowfall were made during the first winter. In June 1953 a home-made snow gauge was constructed on the lines of the gauge at Britannia Sø. A wind shield was made from part of the toilet of the wrecked aircraft situated nearby and the snow was collected in one of two inter-changeable coffee tins of 180 sq. cm cross-section and about 15 cm depth. The whole was painted white to reflect solar radiation.

The water equivalent of the snowfall was determined by weighing the snow collected on a chemical balance at a temperature below 0° C. in one of the under-surface tunnels.

Notes on the Tables.

Table 16 gives for both stations the number of days in each month on which (a) rail fell, (b) snow fell, and the number of days, measured from 09 to 09 on the following day, on which the water equivalent of the collected precipitation was (c) 0.1 mm or more and (d) 1.0 mm or more. The total precipitation in mm of water equivalent is also given.

The measurements of snowfall at "Northice" do not agree well with the measurements of accumulation made there by the glaciologists. The amount of snow deposited on the snow surface is affected much by the wind and there is no reason why the two measurements should agree. The problem of measuring snowfall during wind is a difficult one: the figures here are given, for what they are worth, as measurements of precipitation falling through an arbitrary horizontal cross-section a few feet above the snow surface.

Table 16

	Britannia Sö					"Northice"				
	Number of days of					Number of days of				
	Rain	Snow	0.1mm or more	1.0mm or more	Total mm	Rain	Snow	0.1mm or more	1.0mm or more	Total mm
Nov. 1952...	0	2	0	0	Tr	0	7	..	..	..
Dec. 1952...	0	3	0	0	Tr	0	10	..	..	..
Jan. 1953...	0	11	8	2	6.2	0	9	..	..	..
February ...	0	7	6	2	4.2	0	4	..	..	..
March	0	4	3	0	2.5	0	6	..	..	..
April	0	2	2	0	1.2	0	11	..	..	..
May	0	5	1	1	2.4	0	11	..	..	..
June	6	6	4	3	10.0	0	8	7	3	..
July	1	2	0	0	Tr	0	8	4	0	1.6
August	5	1	3	1	1.5	0	7	2	0	1.4
September ..	2	6	4	3	7.5	0	8	..	..	..
October	0	16	11	3	8.8	0	5	0	0	Tr
November...	0	9	4	3	12.0	0	5	0	0	Tr
Dec. 1953...	0	15	10	6	18.0	0	6	..	..	..
Jan. 1954...	0	9	3	2	8.1	0	6	0	0	Tr
February ...	0	7	8	4	30.8	0	6	2	1	3.1
March	0	4	4	2	5.5	0	5	0	0	Tr
April	0	3	2	0	1.0	0	6	0	0	Tr
May	1	5	3	1	1.7	0	11	5	1	2.2
June	7	5	3	2	10.0	0	13	7	2	3.9
July	10	5	4	4	24.5					

VISIBILITY

Britannia Sø.

The distances of several natural features were known and these were used in measuring the visibility. No artificial lights were used at night but on most occasions there was enough moonlight or starlight available to enable the observer to make a good estimate of the visibility.

“Northice”.

During daylight, moonlight or starlight, visibility was estimated by viewing various objects which were available up to distances of 4 Km. When the furthest object could be clearly seen visibilities in excess of this distance were judged by the clarity of the horizon.

Infrequently visibility had to be estimated in conditions of total darkness and in these cases an electric lamp, fitted approximately 1.5 m above the snow surface over the hut, was viewed from points at known distances from the hut. This gave a good indication of visibility when it was of a low order: say less than $\frac{1}{2}$ Km. The clarity of the light viewed from known distances was used as a guide in estimating visibilities greater than $\frac{1}{2}$ Km.

Notes on the Tables.

Tables 17(B) and 17(N) show the number of occasions at each time of observation in each month when the visibility fell within the code limits¹⁾ at the head of the column.

¹⁾ The code for visibility distance is as follows:—

Code Figure	Range of distance
X0	0 m. to 20 m.
X1	20 m. to 40 m.
X2—X4	40 m. to 100 m.
X5—X9	100 m. to 200 m.
01	200 m. to 400 m.
02—04	400 m. to 1 Km.
05—09	1 Km. to 2 Km.
10—19	2 Km. to 4 Km.
20—49	4 Km. to 10 Km.
50—80	10 Km. to 20 Km.
81	20 Km. to 40 Km.
82—89	40 Km. or more

N.B. The ranges include the lower but not the upper limits.

Table 18 summarises the occasions when the visibility was less than 1 Km., giving A the number of such occasions at 12 h per month, B the number of days on which these conditions occurred at one or more of the synoptic hours, and C the number of days on which those low visibility conditions occurred at all the synoptic hours.

Reduction of visibility below 1 Km. was caused almost always either by falling or drifting snow. The one case at Britannia Sö and the 17 cases at “Northice” when the visibility was reduced by particles suspended (or falling imperceptibly) in the air are listed at the foot of table.

Table 17 (B) **Britannia Sö**
Visibility Frequences Tables

The figures give the number of occasions in each month when the visibility at the hour shown in the left column falls within the code limits shown at the head of the column.

Month	Code Fig.	X ₀	X ₁	X ₂ to	X ₅ to	01	02 to	05 to	10 to	20 to	50 to	81	82 to
	G.M.T.			X ₄	X ₉		04	09	19	49	80		89
1	2	3	4	5	6	7	8	9	10	11	12	13	14
November 1952	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	..	..	..	..	..	..	30
	1200	..	..	..	..	..	..	..	..	..	..	..	30
	1800	..	..	..	..	..	..	..	..	..	..	1	29
	Total	..	..	..	..	..	..	..	..	..	..	1	89
December 1952	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	..	..	..	..	1	..	30
	1200	..	..	..	..	..	..	..	..	..	..	..	31
	1800	..	..	..	..	..	..	..	..	..	1	..	30
	Total	..	..	..	..	..	..	..	..	..	2	..	91
January 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	1	..	..	..	1	2	2	1	2	22
	1200	..	..	..	..	1	1	1	..	4	2	4	18
	1800	..	..	1	..	..	1	..	1	2	2	1	23
	Total	..	..	2	..	1	2	2	3	8	5	7	63
February 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	1	..	1	..	..	..	..	..	2	2	5	17
	1200	..	..	..	..	..	..	..	1	1	1	1	24
	1800	..	..	..	..	..	..	..	1	3	..	4	20
	Total	1	..	1	..	..	..	..	2	6	3	10	61
March 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	1	..	..	..	..	2	5	6	17
	1200	..	..	..	..	..	..	..	1	2	2	5	21
	1800	..	..	..	..	..	2	1	..	1	1	7	19
	Total	..	..	..	1	..	2	1	1	5	8	18	57

Table 17 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
April 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	..	..	1	..	3	2	24
	1200	..	..	..	..	..	..	..	..	..	4	2	24
	1800	..	..	..	..	..	..	..	..	..	2	3	25
	Total	..	..	..	..	..	..	..	1	..	9	7	73
May 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	2	..	..	1	1	..	27
	1200	..	..	..	..	..	1	1	..	..	2	3	24
	1800	..	..	..	..	..	..	..	1	2	2	..	26
	Total	..	..	..	..	..	3	1	1	3	5	3	77
June 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	..	..	1	2	1	4	22
	1200	..	..	..	..	..	..	..	..	3	2	5	20
	1800	..	..	..	..	..	..	..	1	2	1	5	21
	Total	..	..	..	..	..	..	..	2	7	4	14	63
July 1953	0000	..	..	..	..	..	..	..	..	2	..	1	28
	0600	..	..	..	..	..	..	..	..	2	2	5	22
	1200	..	..	..	..	..	..	..	..	1	1	5	24
	1800	..	..	..	..	..	..	..	..	..	..	1	30
	Total	..	..	..	..	..	..	..	..	5	3	12	104
August 1953	0000	..	..	..	..	..	..	..	..	..	1	2	28
	0600	..	..	..	..	..	..	..	1	..	3	2	25
	1200	..	..	..	..	..	..	..	..	1	1	1	28
	1800	..	..	..	..	..	..	..	..	..	..	3	28
	Total	..	..	..	..	..	..	..	1	1	5	8	109
September 1953	0000	..	..	..	..	..	..	..	2	2	..	6	20
	0600	..	..	..	..	..	1	..	1	2	3	1	22
	1200	..	..	..	..	..	1	..	..	2	1	1	25
	1800	..	..	..	..	..	1	..	..	1	2	4	22
	Total	..	..	..	..	..	3	..	3	7	6	12	89
October 1953	0000	..	..	..	..	1	2	..	1	4	4	7	12
	0600	..	..	1	..	1	1	1	1	6	1	11	8
	1200	..	..	1	..	1	3	..	..	4	2	9	11
	1800	..	..	..	..	..	2	..	3	5	3	5	13
	Total	..	..	2	..	3	8	1	5	19	10	32	44
November 1953	0000	..	..	2	1	1	2	2	..	1	3	4	14
	0600	..	1	..	1	2	1	1	..	5	4	2	13
	1200	..	1	..	..	..	2	..	4	2	8	2	11
	1800	..	..	2	..	1	2	..	..	1	7	7	10
	Total	..	2	4	2	4	7	3	4	9	22	15	48
December 1953	0000	..	..	2	1	1	..	..	2	1	4	12	8
	0600	..	..	2	..	1	1	..	3	2	6	4	12
	1200	..	..	2	..	..	1	..	1	5	1	10	11
	1800	..	..	1	1	1	..	1	3	..	1	11	12
	Total	..	..	7	2	3	2	1	9	8	12	37	43

Table 17 (B) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
January 1954	0000	..	..	..	..	..	1	..	1	1	1	7	20
	0600	..	..	..	..	..	..	1	3	1	3	6	17
	1200	..	..	..	..	..	..	3	..	..	..	7	21
	1800	..	..	..	1	..	1	..	..	2	..	5	22
	Total	..	..	..	1	..	2	4	4	4	4	25	80
February 1954	0000	..	..	..	..	3	2	..	3	1	1	2	16
	0600	..	..	1	1	..	3	..	..	4	2	2	15
	1200	..	..	..	..	1	2	1	3	1	1	2	17
	1800	..	..	..	1	..	2	1	1	3	2	1	17
	Total	..	..	1	2	4	9	2	7	9	6	7	65
March 1954	0000	..	..	..	..	..	..	..	1	..	3	3	24
	0600	..	..	..	..	..	..	1	..	3	2	3	22
	1200	..	..	..	..	..	..	1	..	2	1	2	25
	1800	..	..	..	..	..	..	2	..	1	1	2	25
	Total	..	..	..	..	..	..	4	1	6	7	10	96
April 1954	0000	..	..	..	..	..	..	..	1	..	1	1	27
	0600	..	..	..	..	..	..	..	..	..	..	1	29
	1200	..	..	..	..	..	..	1	1	1	..	2	25
	1800	..	..	..	..	..	..	..	2	1	..	1	26
	Total	..	..	..	..	..	..	1	4	2	1	5	107
May 1954	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	..	..	1	2	2	1	25
	1200	..	..	..	..	..	..	..	..	3	2	2	24
	1800	..	..	..	..	..	..	..	..	..	..	4	27
	Total	..	..	..	..	..	..	..	1	5	4	7	76
June 1954	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	21	1	..	2	6	2	18
	1200	..	..	..	..	..	..	..	1	4	2	4	19
	1800	..	..	..	..	..	..	..	2	..	3	..	25
	Total	..	..	..	..	..	21	1	3	6	11	6	62
July 1954	0000	..	..	..	..	..	..	..	2	1	2	2	24
	0600	..	..	..	..	..	..	1	..	3	2	1	24
	1200	..	..	..	..	..	..	..	..	2	3	4	22
	1800	..	..	..	..	..	..	..	1	2	2	3	23
	Total	..	..	..	..	..	..	1	3	8	9	10	93

Table 17 (N) “Northice”
Visibility Frequency Tables

The figures give the number of occasions in each month when the visibility at the hour shown in the left column falls within the code limits shown at the head of the column.

Month	Code Fig.	X ₀	X ₁	X ₂ to X ₄	X ₅ to X ₉	01	02 to 04	05 to 09	10 to 19	20 to 49	50 to 80	81	82 to 89
	G.M.T.												
1	2	3	4	5	6	7	8	9	10	11	12	13	14
November 1952	0000	..	..	3	3	4	..	6	2	6	2	3	1
	0600	..	..	1	4	3	3	4	..	7	8	..	..
	1200	..	..	1	2	2	3	6	3	3	5	3	2
	1800	..	..	2	2	3	5	4	..	3	6	5	..
	Total	..	..	7	11	12	11	20	5	19	21	11	3
December 1952	0000	..	..	..	1	..	6	4	1	6	9	2	2
	0600	..	..	1	1	..	4	5	2	7	8	1	2
	1200	..	..	..	1	2	3	7	2	3	5	8	..
	1800	..	1	..	1	2	8	6	1	5	3	1	3
	Total	..	1	1	4	4	21	22	6	21	25	12	7
January 1953	0000	..	1	1	2	3	5	3	2	4	3	2	5
	0600	..	..	1	1	2	5	3	3	6	6	1	3
	1200	..	..	1	1	2	4	4	5	3	5	3	3
	1800	..	..	1	2	..	7	4	2	5	2	4	4
	Total	..	1	4	6	7	21	14	12	18	16	10	15
February 1953	0000	..	..	1	1	4	3	3	..	6	1	4	5
	0600	..	..	2	2	1	4	1	..	4	5	3	6
	1200	..	..	1	3	3	1	3	3	4	4	1	5
	1800	..	..	2	2	3	3	6	3	2	2	..	5
	Total	..	..	6	8	11	11	13	6	16	12	8	21
March 1953	0000	..	..	2	7	..	2	3	1	3	3	4	6
	0600	..	..	2	5	2	4	2	2	..	5	7	2
	1200	1	..	1	6	5	4	2	..	3	2	1	6
	1800	..	..	2	7	..	4	5	..	1	2	2	8
	Total	1	..	7	25	7	14	12	3	7	12	14	22
April 1953	0000	..	..	..	4	1	7	6	2	..	1	4	5
	0600	..	..	..	4	4	4	6	2	3	2	2	3
	1200	..	..	..	4	4	4	3	3	4	4	1	3
	1800	..	..	1	1	..	3	2	1	9	2	7	4
	Total	..	..	1	13	9	18	17	8	16	9	14	15
May 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	1	..	3	1	4	13	6	3
	1200	..	..	..	1	1	1	2	2	4	9	8	3
	1800	..	..	..	..	..	1	2	1	4	11	6	6
	Total	..	..	..	1	2	2	7	4	12	33	20	12
June 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	..	1	3	1	16	8	1
	1200	..	..	..	1	..	..	1	1	2	5	7	13
	1800	..	..	..	..	1	..	1	1	3	4	3	17
	Total	..	..	..	1	1	..	3	5	6	25	18	31

Table 17 (N) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
July 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	1	1	..	3	1	..	6	13	6
	1200	..	..	..	..	..	1	1	..	1	5	13	10
	1800	..	..	..	..	..	3	1	..	2	1	9	15
	Total	..	..	..	1	1	4	5	1	3	12	35	31
August 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	..	1	2	..	6	8	8	6
	1200	..	..	..	..	..	1	..	2	7	5	8	8
	1800	..	..	1	..	..	1	2	..	4	4	7	12
	Total	..	..	1	..	..	3	4	2	17	17	23	26
September 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	..	1	5	2	1	11	8	2	..
	1200	..	..	..	1	2	6	2	3	11	4	1	..
	1800	..	..	..	1	..	4	5	2	8	8	2	..
	Total	..	..	..	2	3	15	9	6	30	20	5	..
October 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	1	2	5	7	3	7	5	1	..
	1200	..	..	3	1	2	9	5	3	6	2	..	..
	1800	..	..	1	2	4	3	6	4	8	3	..	..
	Total	..	..	4	4	8	17	18	10	21	10	1	..
November 1953	0000	..	..	..	..	..	..	..	..	..	..	..	..
	0600	..	..	..	1	..	5	4	3	11	6	..	..
	1200	..	..	..	..	1	8	3	6	10	2	..	..
	1800	..	..	..	1	1	4	9	3	11	1	..	..
	Total	..	..	..	2	2	17	16	12	32	9	..	..
December 1953	0000	..	..	..	..	..	6	5	10	9	1	..	..
	0600	..	..	2	..	1	4	6	6	12	..	..	..
	1200	..	..	1	1	..	7	6	4	11	1	..	..
	1800	1	..	..	..	1	6	5	6	10	2	..	..
	Total	1	..	3	1	2	23	22	26	42	4	..	..
January 1954	0000	2	..	1	1	1	6	1	6	10	2	..	..
	0600	1	..	3	..	2	6	1	4	10	3	..	..
	1200	..	..	4	..	1	4	3	4	8	5	..	..
	1800	..	1	2	..	..	7	3	3	10	4	..	..
	Total	3	1	10	1	4	23	8	17	38	14	..	..
February 1954	0000	..	..	1	3	2	9	4	4	4	1	..	..
	0600	1	..	2	1	5	6	3	3	7	..	..	..
	1200	..	1	2	3	4	8	3	4	3	..	..	..
	1800	..	..	1	2	2	9	3	2	8	1	..	..
	Total	1	1	6	9	13	32	13	13	22	2	..	..
March 1954	0000	..	..	..	..	2	8	5	8	4	4	..	..
	0600	..	..	..	1	3	9	2	3	9	4	..	..
	1200	..	..	..	1	2	10	5	1	6	5	1	..
	1800	..	..	..	1	2	10	2	2	9	2	2	1
	Total	..	..	..	3	9	37	14	14	28	15	3	1

Table 17 (N) (cont.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
April 1954	0000	..	..	..	..	..	2	4	2	11	7	4	..
	0600	..	..	1	..	3	12	2	4	3	4	1	..
	1200	..	..	2	1	2	5	3	..	13	2	2	..
	1800	..	..	..	..	..	2	1	5	9	6	7	..
	Total	..	..	3	1	5	21	10	11	36	19	14	..
May 1954	0000	..	..	..	..	..	..	1	2	6	4	9	9
	0600	..	..	..	..	..	1	4	3	7	3	10	3
	1200	..	..	..	..	..	..	1	1	14	5	10	..
	1800	..	..	..	..	..	1	1	2	4	10	11	2
	Total	..	..	..	..	..	2	7	8	31	22	40	14
June 1954	0000	..	..	..	..	1	3	..	1	3	4	12	6
	0600	..	..	..	..	..	3	8	..	3	3	10	3
	1200	..	..	..	..	..	2	2	1	6	8	9	2
	1800	..	..	..	..	..	1	..	2	4	4	15	4
	Total	..	..	..	..	1	9	10	4	16	19	46	15

Table 18. *Visibility less than 1 Km.*

Table giving the number of occasions per month of:—
A visibility less than 1 Km. at 12
B visibility less than 1 Km. at (00) or 06 or 12 or 18
C visibility less than 1 Km. at (00) and 06 and 12 and 18.

	Britannia Sö			“Northice”		
	A	B	C	A	B	C
November 1952....	0	0	0	8	17	3
December 1952....	0	0	0	6	17	3
January 1953....	2	2	0	8	20	2
February	0	2	0	8	16	3
March	0	3	0	17	19	7
April	0	0	0	12	19	2
May	1	2	0	3	3	0
June	0	0	0	1	1	0
July	0	0	0	1	5	0
August	0	0	0	1	3	0
September	1	1	0	9	12	2
October	5	7	1	15	20	4
November	3	10	1	9	11	3
December 1953....	3	7	1	9	15	3
January 1954....	0	3	0	9	18	4
February	3	9	0	18	24	7
March	0	0	0	13	22	4
April	0	0	0	10	18	0
May	0	0	0	0	2	0
June	0	1	0	2	6	0
July 1954	0	0	0	..	..	..

The occasions when the reduction of visibility to below 1 Km. was not due to falling or drifting snow were as follows:—

Britannia Sö 1953 Oct. 29th, 12.
“Northice” 1953 April 8th, 06, 12; July 4th, 18; 9th, 06; Sept. 24th, 18;
Sept. 29th, 18; 30th, 18; Oct. 20th, 18; Dec. 15th, 12;
Dec. 21st, 18; 22nd 00.
1954 April 4th, 06; 12th, 06; June 11th, 00; 15th, 06, 12;
June 17th, 00.

STATE OF GROUND

Britannia Sø

For measurement of the state of the ground the flatter ground in the valley between the hillside and the moraine was chosen as representative. Measurements were made daily at 06.

“Northice”.

The state of ground at “Northice” was always either code figure 7 or 9.

Notes on the tables.

Table 19 gives the number of days per month when the state of ground was appropriate to the code figure at the head of the column. The designations (applicable to the station) of the code figure is as follows:—

- 0 Surface of ground dry.
- 1 Surface of ground moist.
- 2 Surface of ground wet.
- 3 Surface of ground frozen.
- 4 Glaze on ground, but no snow or melting snow.
- 5 Ice, snow or melting snow covering less than one half of the ground.
- 6 Ice, snow or melting snow covering more than one half of the ground (but not completely).
- 7 Ice, snow or melting snow covering the ground completely.
- 8 Loose dry snow covering more than one half of the ground (but not completely).
- 9 Loose dry snow covering the ground completely.

Table 19.

Britannia Sö

	Number of occasions of code figure:—									
	0	1	2	3	4	5	6	7	8	9
Nov. 1952...	..	..	..	31	..	..	..	..	..	..
Dec. 1952...	..	..	..	31	..	..	..	..	..	..
Jan. 1953...	..	..	..	11	..	5	4	6	2	3
February ...	..	..	..	..	..	13	4	..	10	1
March	..	..	..	..	..	10	15	..	6	..
April	..	..	..	..	..	14	15	..	..	1
May	..	..	..	..	..	18	8	..	2	3
June	..	..	..	..	..	31	..	..	..	..
July	18	..	..	..	..	13	..	..	..	..
August	31	..	..	..	..	..	..	..	..	..
September ..	15	..	..	..	..	..	..	..	15	..
October	..	..	..	..	..	..	..	..	30	1
November...	..	..	..	..	..	..	..	..	27	3
Dec. 1953...	..	..	..	..	..	..	..	..	29	2
Jan. 1954...	..	..	..	..	..	..	..	..	26	5
February ...	..	..	..	..	..	..	..	..	21	7
March	..	..	..	..	..	..	..	..	30	1
April	..	..	..	..	..	..	..	..	30	..
May	..	..	..	..	..	..	..	..	23	8
June	..	..	..	..	..	19	11	..	..	..
July 1954...	22	3	..	..	..	6	..	..	..	..

Færdig fra trykkeriet den 27. maj 1957.