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Results of Observations on the Direction and Velocity of the Upper Air Current over the South Indian Ocean

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RESULTS OF OBSERVATIONS ON THE DIRECTION AND VELOCITY OF THE UPPER AIR CURRENT OVER THE SOUTH INDIAN OCEAN

INTRODUCTION

A report on a preliminary investigation on the upper air currents in Mauritius carried out between July and December, 1925, was submitted to the Colonial Government early in 1926. Since that date the writer's connexion with Mauritius has been severed by a transfer to the Secretariat of the East African Governors' Conference.

An analysis of the Mauritius results has now been completed, and it will be seen that they have a very direct bearing on the Cape to Cairo Air Route and its possible extension to Australia as a main airship route along latitude 20° S. It is, in consequence, of special interest while these routes are under survey.

It is not necessary to repeat the information on the inauguration of the upper air work in Mauritius, as this is obtainable from the Mauritius Government, the report having been printed by authority of His Excellency the Governor of Mauritius.* Moreover, it will be necessary to deal with methods in special reference to East African conditions when the upper air work is started here in December.

In discussing the observations made in Mauritius, it should be noted that they are not sufficiently numerous to justify a complete analysis of the conditions obtaining in different weather types, nor is the Mauritius Synoptic Service sufficiently developed to permit a satisfactory classification of types, but certain outstanding features are so evident as to suggest, at least, fruitful lines of investigation when the South Indian Ocean Meteorological Service is resumed.

It is believed that the South Indian Ocean is one of the important controlling meteorological centres of the world. The characteristic feature of this region is the great anticyclonic belt which extends from Africa to Australia between latitudes 18° and 40° S. This anticyclonic system forms part of the general high pressure belt stretching round the globe in these latitudes. From an inspection of the average isobaric lines this belt appears to be split up by low pressure systems over the three continents of South America, Africa and Australia.

The anticyclonic system of the South Indian Ocean is known partly to control the atmospheric conditions obtaining over two great continents—Africa and Australia—and also those over the great Indian Peninsula. An enormous amount of research work still remains to be done, but the relation between the conditions in the Indian

* "Report on Upper Air Investigations, Mauritius," by A. Walter. Printed by P. G. Bumstead, Government Printer, Port Louis, 1926.

Monsoon region and the South Indian Ocean as well as those in certain parts of Africa—notably Rhodesia and the Nile Basin—has been the subject of detailed examination, and has led to the despatch of daily weather telegrams from Mauritius to the Indian, Egyptian and Rhodesian weather services.

The belt itself consists of a succession of anticyclonic systems of varying intensity which traverse the ocean from west to east. The interval between successive high pressures varies, but they appear to follow each other about every 20 days. Well-marked low-pressure systems, generally in the form of V-shaped depressions, separate

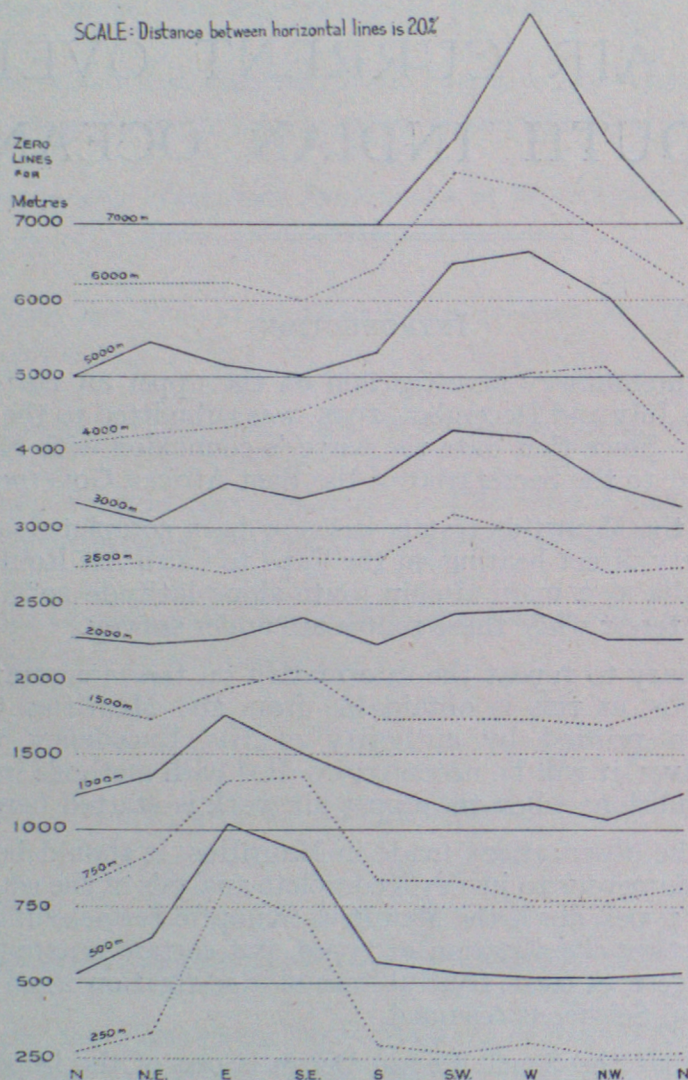


FIG. 1—CURVES OF PERCENTAGE FREQUENCIES OF WIND DIRECTIONS AT VARYING ALTITUDES.

these travelling high-pressure systems throughout the year; and, during the cyclone season, from December to May, tropical low pressures frequently penetrate the belt and disturb the general conditions. The position of curving in their track presents one of the most interesting and important problems of the whole of this region, and has a very practical bearing on the shipping interests of the South Indian Ocean.

The position of origin of these cyclonic storms is known to vary with the time of year, as will be seen from Table V, taken from an unpublished analysis of over 500 storms.

It is necessary to bear these general conditions of the region in mind when examining the table of frequencies of wind directions and velocities in the successive strata of the upper regions of the atmosphere, a discussion of which is given in the following paragraphs.

The actual observations at varying heights are given in Table I. The average direction and velocity for each month during the survey are shewn in Table II. From this table it will be seen that on the average the lowest velocities occur at about 2,000 metres, that at lower altitudes the velocities from the east are strong, and that a moderate westerly current is encountered at 4,000 metres.

The series is not sufficiently extended to permit any deductions as to seasonal variations.

The mean values for the whole period of observation from July to April at varying heights are as follows :—

Metres.	From North through East.		m/s.
250	108	E by S	7.1
500	108	E by S	6.6
750	106	E by S	5.2
1,000	102	E by S	3.4
1,500	110	E $\frac{1}{2}$ S	1.5
2,000	196	S by W	0.7
2,500	211	SSW	1.1
3,000	243	SW by W	2.0
4,000	255	W by S	3.5
5,000	255	W by S	5.6
6,000	255	W by S	6.3
7,000	256	W by S	7.3
8,000	277	W $\frac{1}{2}$ N	7.4

The frequencies of wind directions and wind velocities at different heights are given in Tables III and IV, and in Table VI are shewn the frequencies of winds from the west and east respectively, classified under the four main barometric conditions "high," "low," "rising," "falling"

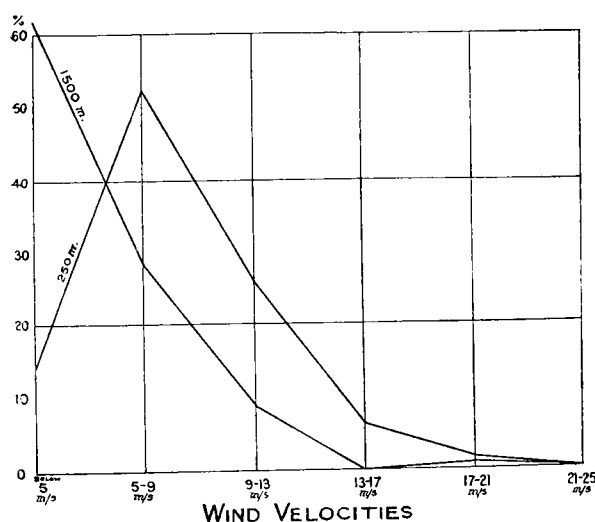


FIG. 2.—CURVES SHOWING THE PERCENTAGE FREQUENCIES OF CERTAIN WIND VELOCITIES AT 250 METRES AND 1,500 METRES RESPECTIVELY.

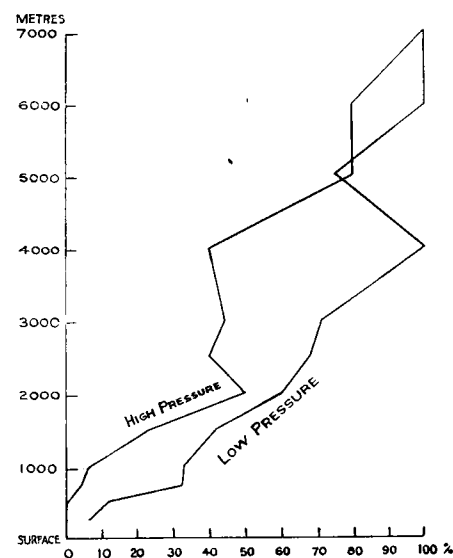


FIG 3.—CURVES OF PERCENTAGE FREQUENCIES OF WESTERLY WINDS AT VARYING ALTITUDES IN SYSTEMS OF HIGH AND LOW PRESSURE.

It is evident that the paucity of observations gives rise to considerable statistical error, but in spite of this it is difficult to ignore the wide and persistent divergence in the frequency curves with "low" and "high" barometer respectively. (Fig. 3.)

During the passage of the V-shaped depressions there is no doubt that the westerly current was persistently encountered at a lower altitude than during the "highs," and the frequency of westerly winds at low altitudes was very much smaller in high pressure systems than in the "lows".

Above the steady south-east trade, at altitudes varying from 1,000 to 2,000 metres, a practically calm zone can nearly always be found; while from 2,000 to 3,000 metres the percentage of westerly winds is large.

During the greater part of the year thunderstorms in this area are unknown and when they do occur, during the season, they always accompany well-defined weather types; fogs are not encountered until higher latitudes are reached, while cyclonic storms in the summer months are so regular in their movements that even single-station forecasting has proved a signal success.

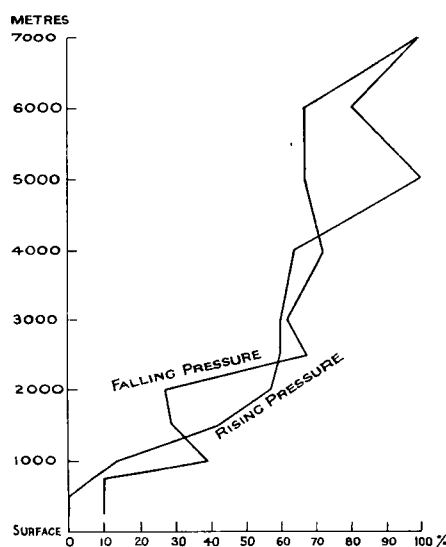


FIG. 4—CURVES OF PERCENTAGE FREQUENCIES OF WESTERLY WINDS AT VARYING ALTITUDES IN SYSTEMS OF RISING AND FALLING PRESSURE.

The above remarks exemplify the assistance which meteorology may give in connexion with the choice and operation of air routes.

Reference must be made to one peculiar weather type in which a strong south-easterly current is found at a high altitude. Its occurrence appears to be very rare, and a typical case is seen in the flight of February 13th, 1926. The ground plan of directions is shewn in Fig. 5. It will be seen that a south-westerly wind is sandwiched between two easterly currents. It is believed that this type was also observed by the Germans in Samoa. That it was not confirmed later by the Carnegie Station may be accounted for by its very rare occurrence. The conditions in Mauritius which always appear to accompany the type are:—deep blue, cloudless sky; no well-defined weather system so far as could be judged in the absence of an efficient synoptic service; low surface wind velocities, and directions and velocities varying greatly with height until the south-easterly current is met at a high altitude. Even in this type, however, the wind velocities at flying altitudes were light.

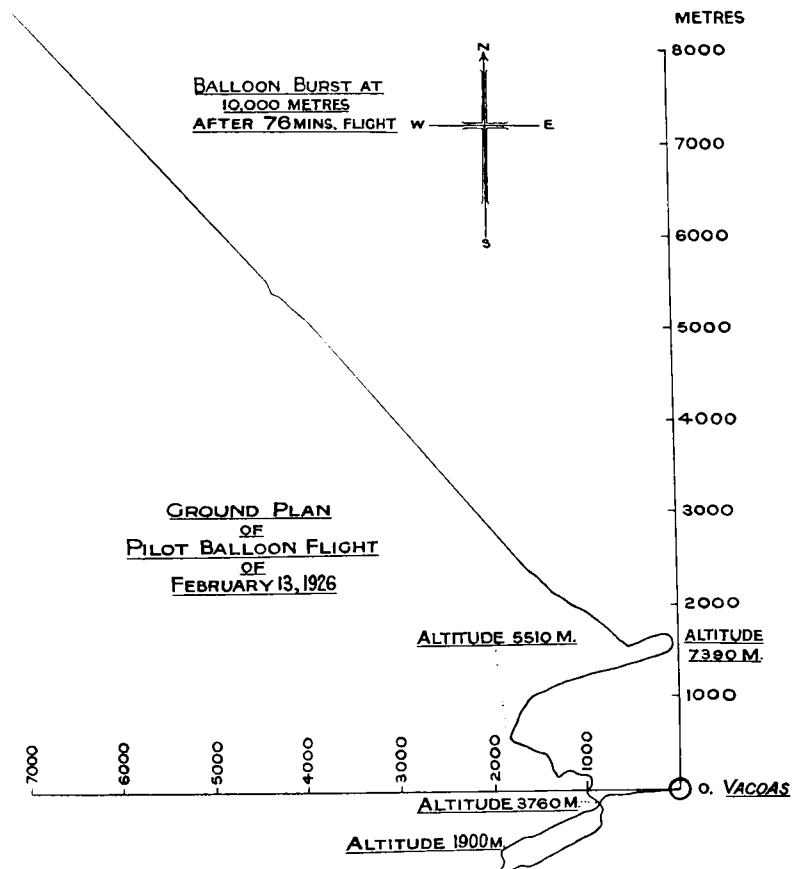


FIG. 5.

TABLE I.—NORTH AND EAST COMPONENTS AND DIRECTION AND VELOCITY OF THE WIND AT VARYING HEIGHTS ABOVE THE AEROLOGICAL STATION, VACOAS, MAURITIUS (424.5m.) AS DETERMINED FROM OBSERVATIONS OF PILOT BALLOONS.

(Directions are counted from North (0°) through East (90°) to South (180°) and West (270°).)

Altitude.		SURFACE.				250 METRES.				500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
July 6 8		+ 0.8	+ 3.9	80	4.0	- 2.7	+10.3	104	10.7	- 2.7	+12.3	102	12.4
7 8		+ 0.1	+ 0.3	70	0.2	- 3.3	+ 3.8	131	5.0	- 3.3	+ 3.8	131	5.0
7 12		- 2.1	+ 1.4	140	2.5	- 8.0	+ 5.5	145	9.7	- 3.0	+ 2.0	146	3.6
7 17		- 3.7	+ 2.5	150	4.5	- 6.4	+ 1.0	171	6.5	- 8.3	+ 0.7	175	8.3
8 9		- 4.2	+ 4.2	135	6.0	- 9.5	+ 8.8	137	13.0	- 7.0	+ 5.0	144	8.6
8 12		- 3.2	+ 3.2	135	4.5	- 7.9	+ 4.3	151	9.0	- 5.0	+ 3.3	147	6.0
9 16		- 1.5	+ 7.4	105	7.5	- 9.2	+ 8.2	138	12.3	-11.5	+10.2	138	15.3
10 8		- 1.3	+ 6.4	100	6.5	- 6.7	+ 8.8	127	11.5	- 9.4	+15.7	121	18.3
13 9		0.0	+ 5.5	90	5.5	+ 0.5	+ 9.7	87	9.7	+ 1.8	+ 5.2	71	5.5
14 7		- 1.1	+ 1.1	135	1.5	- 0.7	+ 5.5	97	5.5	0.0	+ 5.7	90	5.7
14 12		- 0.4	+ 0.9	110	1.0	- 1.8	+ 2.3	128	2.9	- 1.5	+ 3.2	115	3.6
15 9		- 1.0	+ 4.9	100	5.0	- 3.6	+11.0	108	11.6	- 3.6	+11.6	107	12.1
29 10		0.0	+ 3.5	90	3.5	- 0.4	+ 2.7	108	2.8	- 0.8	+ 4.6	100	4.7
29 17		- 1.1	+ 5.4	100	5.5	- 1.0	+ 5.9	100	6.0	+ 0.7	+ 2.9	76	3.0
30 13		- 0.7	- 3.4	265	3.5	+ 0.5	- 2.5	281	2.5	+ 1.0	- 1.2	310	1.5
31 8		- 4.6	+ 4.6	135	6.5	-12.0	+12.8	133	17.5	-16.2	+ 8.3	153	18.2
31 9		- 4.9	+ 4.9	135	7.0	-11.8	+10.8	137	16.0	-12.5	+ 9.0	144	15.4
Mean ..		- 1.7	+ 3.3	116	3.7	- 4.9	+ 6.4	127	8.0	- 4.7	+ 6.0	127	7.6

Altitude.		750 METRES.				1000 METRES.				1500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
July 6 8		- 3.3	+14.3	103	14.4	- 2.0	+12.7	99	12.6	—	—	—	—
7 8		- 3.2	+ 3.3	134	4.6	- 3.3	+ 1.7	153	3.7	- 3.9	+ 2.7	145	4.7
7 12		- 1.9	+ 1.0	152	2.1	- 0.2	+ 0.3	124	0.3	- 8.6	+ 4.2	156	9.6
7 17		- 3.9	- 0.6	189	3.9	- 0.5	- 0.8	238	0.9	- 1.1	- 0.2	190	1.1
8 9		- 1.0	- 2.0	243	2.2	- 2.0	- 1.0	207	2.2	- 4.5	- 5.0	228	6.7
8 12		- 5.0	+ 2.7	152	5.7	- 5.0	+ 1.5	163	5.2	- 5.2	- 1.8	198	5.5
9 16		- 7.8	+ 6.2	141	10.0	- 7.5	+ 6.2	140	9.8	+ 4.3	- 5.3	309	6.8
10 8		- 5.3	+10.2	118	11.3	—	—	—	—	—	—	—	—
13 9		+ 1.2	+ 4.5	75	4.6	+ 1.7	+ 3.7	65	4.0	0.0	+ 0.7	90	0.7
14 7		+ 0.2	+ 5.0	80	5.0	- 0.7	+ 3.3	102	3.3	- 3.3	+ 2.0	149	3.8
14 12		- 0.6	+ 3.5	100	3.6	+ 0.3	+ 2.6	83	2.6	- 0.8	+ 3.2	104	3.3
15 9		- 1.5	+ 8.3	100	8.4	—	—	—	—	—	—	—	—
29 10		+ 2.7	+ 4.0	56	4.8	+ 4.8	+ 8.5	60	9.7	+ 5.3	+10.3	63	11.6
29 17		+ 1.0	+ 0.1	6	1.0	+ 1.9	+ 0.2	6	1.9	+ 2.0	+ 1.9	44	2.7
30 13		+ 0.4	- 0.2	333	0.4	+ 0.9	+ 0.3	18	0.9	+ 1.3	- 0.6	335	1.4
31 8		- 7.3	+ 5.8	142	9.3	- 3.2	+ 3.3	134	4.6	- 1.4	+ 3.3	113	3.6
31 9		-17.9	+15.9	138	24.0	+ 0.8	+ 0.2	14	0.8	- 2.0	+ 0.9	156	2.2
Mean ..		- 3.1	+ 4.8	121	5.6	- 1.0	+ 2.8	108	2.9	- 1.3	+ 1.2	138	1.8

Altitude.		2000 METRES.				2500 METRES.				3000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
July 6 8		—	—	—	—	—	—	—	—	—	—	—	—
7 8		- 3.8	+ 0.8	168	3.9	- 3.7	- 4.2	228	5.6	- 2.8	- 4.0	234	4.9
7 12		0.0	- 4.1	270	4.1	- 0.9	- 3.9	257	4.0	- 7.0	- 3.3	205	7.7
7 17		- 5.5	- 1.8	198	5.8	- 1.9	- 3.5	241	4.0	+ 1.1	- 3.1	290	3.3
8 9		- 0.5	- 4.5	262	4.6	+ 2.0	- 5.7	288	6.0	—	—	—	—
8 12		- 4.8	- 6.2	232	7.8	+ 1.8	- 6.7	285	7.0	+ 4.2	-10.5	202	11.3
9 16		—	—	—	—	—	—	—	—	—	—	—	—
10 8		—	—	—	—	—	—	—	—	—	—	—	—
13 9		+ 0.8	- 3.8	282	3.9	+ 1.0	- 7.0	278	7.1	+ 2.7	-10.2	285	10.5
14 7		- 5.5	+ 0.2	178	5.5	- 7.7	- 5.2	214	9.3	- 5.0	-12.7	249	13.7
14 12		—	—	—	—	—	—	—	—	—	—	—	—
15 9		—	—	—	—	—	—	—	—	—	—	—	—
29 10		+ 3.0	+ 2.8	43	4.1	—	—	—	—	—	—	—	—
29 17		+ 5.0	+ 1.9	21	5.4	+ 2.4	+ 2.0	39	3.1	- 0.2	+ 3.6	94	3.6
30 13		+ 5.3	- 4.8	318	7.1	+ 3.1	- 4.4	304	5.4	—	—	—	—
31 8		- 2.5	+ 1.9	143	3.1	- 0.3	- 1.8	260	1.8	0.0	- 4.6	270	4.6
31 9		+ 0.7	- 1.2	300	1.4	- 1.1	- 5.8	259	5.9	—	—	—	—
Mean ..		- 0.6	- 1.6	250	1.7	- 0.5	- 4.4	263	4.4	- 0.9	- 5.6	260	5.7

Altitude		4000 METRES.				5000 METRES.				Height of Westerly Winds.	Weather System.
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.		
1925	d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	Above 1,000 metres.	Pressure falling.
July	6 8	—	—	—	—	—	—	—	—		
	7 8	—	—	—	—	—	—	—	—		
	7 12	—	—	—	—	—	—	—	—		
	7 17	+ 6.6	— 9.6	305	11.7	—	—	—	—		
	8 9	—	—	—	—	—	—	—	—		
	8 12	+ 8.3	— 16.7	297	18.6	—	—	—	—		
	9 16	—	—	—	—	—	—	—	—		
	10 8	—	—	—	—	—	—	—	—		
	13 9	+ 3.3	— 3.8	311	5.0	+ 6.8	— 7.3	313	10.0		
	14 7	+ 8.3	— 15.3	297	17.4	+ 4.3	— 7.3	300	8.4		
	14 12	—	—	—	—	—	—	—	—		
	15 9	—	—	—	—	—	—	—	—		
	29 10	—	—	—	—	—	—	—	—		
	29 17	+ 0.9	+ 2.4	70	2.6	—	—	—	—		
	30 13	—	—	—	—	—	—	—	—		
	31 8	—	—	—	—	—	—	—	—		
	31 9	—	—	—	—	—	—	—	—		
Mean	..	+ 5.5	— 8.6	302	10.2	+ 5.5	— 7.3	310	8.3		

Altitude.		SURFACE.				250 METRES.				500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Aug.	3 9	— 2.5	+ 6.0	110	6.5	— 6.7	+ 11.3	121	13.1	— 6.1	+ 10.3	121	11.9
	3 15	— 2.9	+ 6.9	110	7.5	— 5.4	+ 6.7	129	8.6	— 4.2	+ 8.5	116	9.5
	5 14	0.0	+ 8.5	95	8.5	— 8.0	+ 12.4	123	14.8	— 7.2	+ 10.5	124	12.7
	6 8	— 1.0	+ 4.9	100	5.0	— 4.3	+ 10.3	113	11.1	— 4.0	+ 12.7	108	13.3
	7 9	+ 2.2	+ 3.3	65	4.0	+ 1.9	+ 8.5	77	8.7	+ 2.8	+ 1.4	27	3.1
	7 13	+ 1.7	+ 4.2	70	4.5	+ 1.0	+ 6.1	81	6.2	+ 1.1	+ 3.0	70	3.2
	8 16	0.0	+ 3.5	90	3.5	— 1.8	+ 4.4	112	4.8	+ 0.7	+ 3.4	78	3.4
	11 10	— 1.5	+ 7.4	100	7.5	— 7.5	+ 9.2	129	11.8	— 7.0	+ 10.0	125	12.3
	12 7	— 1.0	+ 4.9	100	5.0	— 6.7	+ 10.4	123	12.3	— 7.0	+ 13.3	118	15.0
	13 17	— 1.2	+ 5.9	100	6.0	— 4.2	+ 8.1	117	9.1	— 5.2	+ 12.7	112	13.7
	14 9	— 0.9	+ 4.4	100	4.5	— 3.4	+ 10.6	108	11.1	— 5.3	+ 11.7	114	12.9
	14 16	— 1.4	+ 6.9	100	7.0	— 5.6	+ 7.3	127	9.2	— 6.5	+ 10.2	123	12.1
	17 7	— 0.3	+ 0.4	120	0.5	0.0	— 1.1	270	1.1	+ 0.7	— 0.4	330	0.8
	17 9	— 0.5	0.0	180	0.5	— 0.6	— 1.8	252	1.9	— 0.8	— 1.1	234	1.3
	17 17	— 3.3	+ 2.2	150	4.0	— 9.2	+ 1.1	173	9.2	— 8.7	+ 1.4	171	8.8
	19 10	— 3.4	+ 8.3	110	9.0	— 9.7	+ 11.6	130	15.1	— 9.2	+ 9.9	133	13.5
	19 14	— 1.6	+ 7.8	105	8.0	— 5.2	+ 9.4	119	10.7	— 6.6	+ 4.3	147	7.9
	19 17	— 1.2	+ 5.9	100	6.0	— 4.9	+ 8.2	121	9.5	— 3.5	+ 4.8	126	5.9
	20 7	— 1.1	+ 1.7	130	2.0	— 6.7	+ 2.1	163	7.0	— 3.4	+ 2.5	144	4.2
	20 15	— 4.2	+ 1.7	160	4.5	— 5.0	+ 2.1	157	5.4	— 6.0	0.0	180	6.0
	21 8	— 1.1	+ 1.7	120	2.0	— 6.2	+ 5.9	136	8.5	— 7.9	+ 6.0	143	9.9
	21 17	— 2.2	+ 3.3	120	4.0	— 4.5	+ 5.0	132	6.7	— 6.0	+ 6.8	131	9.0
	23 11	— 1.1	+ 5.4	105	5.5	— 1.9	+ 5.3	110	5.6	+ 0.4	+ 4.5	85	4.5
	24 9	— 3.2	+ 3.2	140	4.5	— 4.2	+ 3.6	139	5.5	— 4.9	+ 5.5	132	7.3
	24 14	— 3.3	+ 5.0	130	6.0	— 6.0	+ 5.4	138	8.0	— 5.5	+ 6.0	132	8.6
	24 17	0.0	+ 4.0	95	4.0	— 6.5	+ 5.2	141	8.3	— 8.0	+ 4.8	149	9.3
	26 15	— 2.1	+ 10.8	105	11.0	— 4.0	+ 6.0	124	7.2	—	—	—	—
	28 10	— 3.4	+ 8.3	110	9.0	— 7.0	+ 11.0	122	13.0	— 10.0	+ 15.0	124	18.0
	29 8	+ 1.7	+ 4.2	70	4.5	— 1.5	+ 10.0	99	10.1	— 2.9	+ 12.0	104	12.3
	31 8	+ 0.5	+ 2.4	80	2.5	— 2.5	+ 8.6	106	8.9	— 2.0	+ 10.0	103	10.2
	31 16	— 1.2	+ 5.9	100	6.0	— 5.8	+ 9.4	122	11.0	— 4.5	+ 8.5	118	9.6
Mean	..	— 1.3	+ 4.8	105	4.9	— 4.6	+ 6.9	124	8.2	— 4.6	+ 6.9	124	8.2

Altitude.		750 METRES.				1000 METRES.				1500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Aug. 3	9	-2.6	+2.9	132	3.9	-1.0	+1.6	122	1.9	+3.9	+1.2	17	4.1
	15	-0.7	+2.4	106	2.5	+0.5	+2.6	79	2.6	—	—	—	—
	5 14	-7.6	+12.1	122	14.3	—	—	—	—	—	—	—	—
	6 8	-0.9	+10.0	95	10.0	—	—	—	—	—	—	—	—
	7 9	+2.1	+9.8	78	10.0	+2.0	+8.0	76	8.2	+0.5	+4.0	83	4.0
	7 13	+2.8	+6.0	65	6.6	+2.6	+0.1	2	2.6	—	—	—	—
	8 16	-1.2	+0.8	146	1.4	-3.0	+0.3	174	3.0	-3.4	+0.7	168	3.4
	11 10	-11.7	+15.0	128	19.0	-4.9	+6.8	126	8.4	—	—	—	—
	12 7	-6.8	+13.2	117	14.8	-5.4	+10.3	118	11.6	—	—	—	—
	13 17	—	—	—	—	—	—	—	—	—	—	—	—
	14 9	-5.9	+10.9	118	12.4	-2.5	+9.2	105	9.5	-2.7	+6.0	114	6.6
	14 16	-5.4	+10.2	118	11.5	—	—	—	—	—	—	—	—
	17 7	0.0	+0.8	90	0.8	-0.4	+1.0	112	1.0	-0.2	-2.0	264	2.0
	17 9	-0.9	-0.7	218	1.1	-0.4	0.0	180	0.4	-2.2	-1.1	207	2.4
	17 17	-4.3	0.0	180	4.3	—	—	—	—	—	—	—	—
	19 10	-3.6	+1.9	152	4.0	-3.2	+1.0	163	3.3	0.0	-4.7	270	4.7
	19 14	-6.5	+2.7	157	7.0	-1.7	-6.9	256	7.1	-3.5	-7.2	244	8.0
	19 17	-3.7	+2.9	142	4.7	-4.0	+1.5	159	4.2	-0.9	-2.8	253	3.0
	20 7	-1.9	+1.8	137	2.6	0.0	+0.7	90	0.7	-2.1	+0.7	162	2.2
	20 15	-5.2	-3.0	210	6.0	-4.3	-4.1	226	5.9	-4.2	-0.4	185	4.2
	21 8	-7.3	+4.5	148	8.6	-11.0	+4.0	160	11.8	—	—	—	—
	21 17	-7.7	+9.3	130	12.0	-8.3	+6.4	142	10.5	-11.0	+5.3	154	12.2
	23 11	+6.3	+3.6	30	7.2	+8.0	+3.3	22	8.6	+1.8	+9.7	79	9.9
	24 9	-5.0	+6.6	127	8.2	+4.6	+6.7	55	8.1	—	—	—	—
	24 14	-6.5	+6.0	137	8.8	-5.3	+4.7	138	7.1	-9.0	+6.0	146	10.8
	24 17	-9.3	+5.6	149	10.8	—	—	—	—	—	—	—	—
	26 15	—	—	—	—	—	—	—	—	—	—	—	—
	28 10	-7.4	+13.0	120	15.0	—	—	—	—	—	—	—	—
	29 8	-4.8	+12.7	111	13.6	-6.5	+17.5	110	18.6	—	—	—	—
	31 8	-1.3	+13.3	96	13.4	-3.7	+10.5	109	11.1	-4.2	+11.0	111	11.7
	31 16	-1.3	+6.8	101	6.9	+1.3	+4.5	74	4.7	—	—	—	—
Mean	..	-3.7	+6.2	120	7.2	-2.0	+3.9	117	4.4	-2.5	+1.8	144	3.1

Altitude.		2000 METRES.				2500 METRES.				3000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Aug. 3	9	+2.6	+4.0	57	4.7	+1.5	+1.2	40	1.9	+0.5	-2.6	281	2.6
	15	—	—	—	—	—	—	—	—	—	—	—	—
	5 14	—	—	—	—	—	—	—	—	—	—	—	—
	6 8	—	—	—	—	—	—	—	—	—	—	—	—
	7 9	+4.7	+9.7	64	10.8	+1.0	0.0	0	1.0	-1.7	-1.2	215	2.1
	7 13	—	—	—	—	—	—	—	—	—	—	—	—
	8 16	-1.9	-2.0	226	2.7	-2.0	-2.1	226	2.9	—	—	—	—
	11 10	—	—	—	—	—	—	—	—	—	—	—	—
	12 7	—	—	—	—	—	—	—	—	—	—	—	—
	13 17	—	—	—	—	—	—	—	—	—	—	—	—
	14 9	—	—	—	—	—	—	—	—	—	—	—	—
	14 16	—	—	—	—	—	—	—	—	—	—	—	—
	17 7	-0.3	-2.4	263	2.4	-1.0	-1.5	236	1.8	+3.4	+0.5	8	3.4
	17 9	+0.2	-3.0	274	3.0	-4.2	-0.8	191	4.3	—	—	—	—
	17 17	—	—	—	—	—	—	—	—	—	—	—	—
	19 10	+3.5	-8.2	293	8.9	—	—	—	—	—	—	—	—
	19 14	+2.0	-11.0	280	11.2	—	—	—	—	—	—	—	—
	19 17	-4.0	-13.0	253	13.6	—	—	—	—	—	—	—	—
	20 7	-2.8	-4.2	236	5.0	-3.0	-0.7	193	3.1	-3.0	-1.0	198	3.1
	20 15	-3.0	-0.8	195	3.1	-3.3	-4.0	230	5.2	-1.0	-4.8	258	4.9
	21 8	—	—	—	—	—	—	—	—	—	—	—	—
	21 17	-10.2	+3.9	159	10.9	-9.5	-2.0	192	9.7	-2.1	+1.7	139	2.7
	23 11	-3.1	+8.0	111	8.6	-2.8	+7.5	111	8.0	+1.6	+8.6	79	8.7
	24 9	—	—	—	—	—	—	—	—	—	—	—	—
	24 14	—	—	—	—	—	—	—	—	—	—	—	—
	24 17	—	—	—	—	—	—	—	—	—	—	—	—
	26 15	—	—	—	—	—	—	—	—	—	—	—	—
	28 10	—	—	—	—	—	—	—	—	—	—	—	—
	29 8	—	—	—	—	—	—	—	—	—	—	—	—
	31 8	+0.5	+0.5	45	0.7	—	—	—	—	—	—	—	—
	31 16	—	—	—	—	—	—	—	—	—	—	—	—
Mean	..	-0.9	-1.4	236	1.6	-2.6	-0.3	187	2.6	-0.3	+0.2	146	0.4

Altitude.		4000 METRES.				5000 METRES.				6000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s		m/s
Aug.	3 9	+ 7.5	+ 5.0	34	9.0	—	—	—	—	—	—	—	—
	3 15	—	—	—	—	—	—	—	—	—	—	—	—
	5 14	—	—	—	—	—	—	—	—	—	—	—	—
	6 8	—	—	—	—	—	—	—	—	—	—	—	—
	7 9	—	—	—	—	—	—	—	—	—	—	—	—
	7 13	—	—	—	—	—	—	—	—	—	—	—	—
	8 16	—	—	—	—	—	—	—	—	—	—	—	—
	11 10	—	—	—	—	—	—	—	—	—	—	—	—
	12 7	—	—	—	—	—	—	—	—	—	—	—	—
	13 17	—	—	—	—	—	—	—	—	—	—	—	—
	14 9	—	—	—	—	—	—	—	—	—	—	—	—
	14 16	—	—	—	—	—	—	—	—	—	—	—	—
	17 7	+ 8.2	-12.0	304	14.6	+10.0	-16.0	302	18.9	—	—	—	—
	17 9	—	—	—	—	—	—	—	—	—	—	—	—
	17 17	—	—	—	—	—	—	—	—	—	—	—	—
	19 10	—	—	—	—	—	—	—	—	—	—	—	—
	19 14	—	—	—	—	—	—	—	—	—	—	—	—
	19 17	—	—	—	—	—	—	—	—	—	—	—	—
	20 7	- 2.7	- 2.5	223	3.7	- 4.5	- 6.6	236	8.0	- 6.6	- 4.9	217	8.2
	20 15	- 3.7	- 9.4	248	10.1	- 5.1	- 9.4	241	10.7	—	—	—	—
	21 8	—	—	—	—	—	—	—	—	—	—	—	—
	21 17	—	—	—	—	—	—	—	—	—	—	—	—
	23 11	—	—	—	—	—	—	—	—	—	—	—	—
	24 9	—	—	—	—	—	—	—	—	—	—	—	—
	24 14	—	—	—	—	—	—	—	—	—	—	—	—
	24 17	—	—	—	—	—	—	—	—	—	—	—	—
	26 15	—	—	—	—	—	—	—	—	—	—	—	—
	28 10	—	—	—	—	—	—	—	—	—	—	—	—
	29 8	—	—	—	—	—	—	—	—	—	—	—	—
	31 8	—	—	—	—	—	—	—	—	—	—	—	—
	31 16	—	—	—	—	—	—	—	—	—	—	—	—
Mean	..	+ 2.3	- 4.7	295	5.2	+ 0.1	-10.7	170	10.7	- 6.6	- 4.9	217	8.2

Altitude.		7000 METRES.				Height of Westerly Winds.	Weather System
		N.	E.	Dir.	Vel.		
1925 d. h.		m/s	m/s	°	m/s		
Aug.	3 9	—	—	—	—	2700 metres	Pressure high
	3 15	—	—	—	—	2700 "	" "
	5 14	—	—	—	—	2500 "	" "
	6 8	—	—	—	—	2000 "	" "
	7 9	—	—	—	—	2000 "	" falling
	7 13	—	—	—	—	2000 "	" "
	8 16	—	—	—	—	1500 "	" low
	11 10	—	—	—	—	?	" rising
	12 7	—	—	—	—	?	" high
	13 17	—	—	—	—	?	" "
	14 9	—	—	—	—	?	" falling
	14 16	—	—	—	—	?	" "
	17 7	—	—	—	—	?	" "
	17 9	—	—	—	—	?	" "
	17 17	—	—	—	—	2700 "	" low
	19 10	—	—	—	—	1000 "	" rising
	19 14	—	—	—	—	1000 "	" "
	19 17	—	—	—	—	1000 "	" "
	20 7	-11.0	-14.5	233	18.3	1500 "	" "
	20 15	—	—	—	—	500 "	" "
	21 8	—	—	—	—	3500 "	" "
	21 17	—	—	—	—	3500 "	" "
	23 11	—	—	—	—	?	" "
	24 9	—	—	—	—	?	" "
	24 14	—	—	—	—	?	" "
	24 17	—	—	—	—	?	" "
	26 15	—	—	—	—	?	" "
	28 10	—	—	—	—	?	" high
	29 8	—	—	—	—	?	" "
	31 8	—	—	—	—	?	" falling
	31 16	—	—	—	—	?	" "
Mean	..	-11.0	-14.5	233	18.3		

Altitude.		SURFACE.				250 METRES.				500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Sept.	2 18	-1.9	+4.6	110	5.0	-0.8	+1.4	120	1.6	0.0	+1.8	90	1.8
	3 7	-1.5	+3.7	110	4.0	-0.9	+0.8	138	1.2	-0.7	+1.3	118	1.5
	4 7	-0.8	+3.9	100	4.0	-3.8	+12.5	107	13.1	-4.0	+15.0	105	15.4
	4 11	-1.3	+6.4	100	6.5	-2.7	+9.0	107	9.4	-1.7	+7.4	103	7.6
	4 14	-1.3	+6.4	100	6.5	-3.0	+7.0	113	7.6	-2.3	+5.0	115	5.5
	6 9	-1.0	+4.9	105	5.0	-2.5	+10.0	104	10.3	-3.1	+11.0	106	11.4
	9 7	-0.7	+3.4	100	3.5	+1.8	+6.5	75	6.7	+2.0	+11.0	80	11.2
	10 17	-1.7	+4.2	115	4.5	-1.8	+6.5	106	6.7	+1.2	+4.1	74	4.2
	11 10	0.0	+4.5	90	4.5	+1.3	+3.8	72	4.1	+0.8	+7.2	84	7.2
	12 7	-0.8	+3.9	105	4.0	+0.5	+7.0	86	7.0	+2.8	+4.7	60	5.5
	14 8	+0.4	+2.0	80	2.0	+2.8	+6.8	68	7.4	+2.2	+6.8	72	7.2
	15 13	0.0	+4.0	85	4.0	+3.7	+5.3	55	6.5	+2.0	+3.0	56	3.6
	17 10	-1.7	+2.5	120	3.0	-4.3	+5.0	131	6.6	-4.0	+3.2	142	5.1
	21 7	0.0	+5.0	95	5.0	-3.0	+15.2	101	15.4	-3.4	+15.5	102	16.0
	24 7	-1.3	+3.3	110	3.5	-0.9	-8.8	264	8.9	+1.3	-5.8	282	6.0
	24 9	-0.8	+3.9	100	4.0	-0.2	+6.0	92	6.0	+1.0	+4.0	76	4.1
	25 6	-0.8	+3.9	100	4.0	+1.0	+8.0	83	8.0	+2.7	+4.3	58	5.1
	28 7	0.0	+2.5	90	2.5	-2.5	+5.8	113	6.4	-4.0	+10.0	112	10.7
	28 9	-1.9	+4.6	115	5.0	-3.7	+6.5	120	7.5	-3.8	+7.2	118	8.2
	28 15	-1.1	+5.4	105	5.5	-4.1	+3.8	137	5.6	-2.4	+2.7	132	3.6
	29 6	-2.1	+5.1	115	5.5	-4.2	+11.8	110	12.6	-2.2	+10.2	102	10.4
Mean	..	-1.0	+4.2	103	4.3	-1.3	+6.2	102	6.3	-0.7	+6.2	96	6.2

Altitude.		750 METRES.				1000 METRES.				1500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Sept.	2 18	-1.1	+1.2	133	1.6	-0.2	+2.0	95	2.0	0.0	+1.3	90	1.3
	3 7	-0.8	+1.3	122	1.5	-0.8	+0.8	135	1.1	-0.2	0.0	180	0.2
	4 7	+1.7	+10.0	80	10.2	+6.4	+4.4	34	7.7	+10.0	0.0	0	10.0
	4 11	-0.5	+3.7	98	3.7	+4.0	-2.8	324	5.0	+6.0	-1.0	350	6.1
	4 14	-3.0	+2.0	146	3.6	-2.0	-1.0	206	2.2	+3.1	0.0	0	3.1
	6 9	-3.0	+10.5	106	10.9	-2.0	+8.0	104	8.3	-4.1	+3.9	136	5.6
	9 7	+1.0	+3.2	73	3.3	-0.8	+0.8	135	1.1	+1.0	+1.4	54	1.7
	10 17	+2.0	+1.9	44	2.7	+2.2	+2.0	42	3.0	+3.3	+2.5	37	4.1
	11 10	+3.0	+6.0	63	6.7	+2.2	+4.0	61	4.6	0.0	+1.5	90	1.5
	12 7	+3.5	+2.7	38	4.4	+4.3	+2.5	30	5.0	+2.9	+2.0	35	3.5
	14 8	+3.0	+3.0	45	4.2	+3.0	+2.3	38	3.8	-1.0	+3.0	108	3.1
	15 13	+2.6	+7.0	70	7.5	+1.5	+10.0	81	10.1	-1.9	+6.0	108	6.3
	17 10	-2.5	0.0	180	2.5	-5.3	+3.0	150	6.1	-6.7	+4.2	148	7.9
	21 7	-3.0	+12.5	104	12.9	-1.0	+6.0	100	6.1	-3.2	+3.7	131	4.0
	24 7	+2.7	-2.8	313	4.0	+0.8	-3.0	285	3.1	+4.3	-2.2	333	4.8
	24 9	+3.3	+0.7	11	3.4	+4.0	0.0	0	4.0	+8.0	-0.8	353	8.0
	25 6	+2.8	+2.0	36	3.4	+0.8	+0.8	45	1.1	+0.8	0.0	0	0.8
	28 7	-3.5	+7.2	116	8.0	-5.0	+3.5	145	6.1	-3.8	+3.3	139	5.0
	28 9	-2.5	+5.3	115	5.9	-3.1	+3.8	129	4.9	—	—	—	—
	28 15	-1.0	+0.8	141	1.3	-0.5	+0.5	135	0.7	-1.2	0.0	180	1.2
	29 6	-1.8	+10.0	100	10.2	-1.0	+6.0	100	6.1	+3.0	0.0	0	3.0
Mean	..	-0.1	+4.2	89	4.2	-0.4	+2.5	81	2.5	-1.0	+1.4	54	1.7

Altitude.		2000 METRES.				2500 METRES.				3000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Sept.	2 18	—	—	—	—	—	—	—	—	—	—	—	—
	3 7	—	—	—	—	—	—	—	—	—	—	—	—
	4 7	+ 0.2	+ 5.0	88	5.0	+ 2.2	+ 3.7	59	4.3	0.0	- 4.2	110	4.2
	4 11	+ 1.2	+ 3.7	72	3.9	+ 2.0	+ 3.9	63	4.4	+ 2.0	- 2.0	315	2.8
	4 14	+ 1.3	+ 1.0	38	1.6	+ 5.0	+ 5.0	45	7.1	+ 2.0	+ 0.5	14	2.0
	6 9	- 2.5	+ 2.0	141	3.2	+ 3.0	+ 3.0	45	4.2	+ 0.3	+ 2.5	83	2.5
	9 7	+ 1.8	- 2.0	312	2.7	+ 1.4	- 4.4	288	4.6	- 1.5	- 2.8	242	3.2
	10 17	0.0	+ 6.3	90	6.3	- 1.2	+ 1.4	122	2.2	- 2.1	0.0	180	2.1
	11 10	- 4.0	+ 5.8	125	7.0	- 5.5	0.0	180	5.5	- 2.7	+ 0.3	174	2.7
	12 7	0.0	+ 2.0	90	2.0	+ 1.5	+ 6.0	76	6.2	- 0.5	- 0.3	220	0.6
	14 8	0.0	+ 6.5	90	6.5	- 6.0	+ 4.2	145	7.3	—	—	—	—
	15 13	- 4.0	+ 9.2	114	10.0	- 3.0	+ 7.0	113	7.6	- 6.0	0.0	180	6.0
	17 10	- 8.8	+ 4.8	151	5.0	- 3.8	+ 2.0	152	4.3	- 4.8	+ 1.0	168	4.9
	21 7	- 3.8	+ 4.2	132	5.6	- 5.2	+ 4.2	141	6.7	- 1.9	+ 4.0	115	4.4
	24 7	0.0	- 3.5	270	3.5	- 1.4	- 0.7	207	1.5	- 4.0	- 3.3	220	5.2
	24 9	+ 3.8	+ 5.0	53	6.3	+ 0.7	+ 1.0	55	1.2	- 3.7	- 2.0	208	4.2
	25 6	- 0.5	- 1.5	252	1.6	- 1.8	- 4.0	246	4.4	- 1.3	- 3.8	251	4.0
	28 7	- 1.6	- 3.2	243	3.6	—	—	—	—	—	—	—	—
	28 9	—	—	—	—	—	—	—	—	—	—	—	—
	28 15	- 1.5	+ 0.3	169	1.5	- 2.2	- 6.5	251	6.8	- 1.5	- 1.5	225	2.1
	29 6	+ 1.0	+ 0.4	22	1.0	+ 0.5	+ 1.7	74	1.7	0.0	0.0	Calm	—
Mean	..	+ 1.0	+ 2.6	111	2.8	- 0.8	+ 1.6	117	1.8	- 1.6	- 0.2	187	1.6

Altitude.		4000 METRES.				5000 METRES.				6000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Sept.	2 18	—	—	—	—	—	—	—	—	—	—	—	—
	3 7	—	—	—	—	—	—	—	—	—	—	—	—
	4 7	+ 1.3	+ 5.4	76	5.5	+ 0.2	+ 2.0	84	2.0	+ 5.7	- 0.6	6	5.7
	4 11	+ 3.0	+ 3.0	45	4.2	—	—	—	—	—	—	—	—
	4 14	+ 1.2	- 1.0	320	1.6	+ 3.0	+ 3.0	45	4.2	+ 8.0	- 5.0	328	9.4
	6 9	- 3.3	+ 4.1	129	5.2	- 11.0	- 4.5	202	11.9	—	—	—	—
	9 7	- 2.0	- 6.5	253	6.8	—	—	—	—	—	—	—	—
	10 17	- 1.8	- 10.0	260	10.2	—	—	—	—	—	—	—	—
	11 10	- 6.1	- 6.7	228	9.0	- 11.2	- 6.7	211	13.0	- 10.0	- 12.3	231	15.8
	12 7	- 8.7	- 2.0	193	8.9	- 3.2	- 6.0	242	6.8	- 11.0	- 6.8	212	12.9
	14 8	—	—	—	—	—	—	—	—	—	—	—	—
	15 13	- 5.8	0.0	180	5.8	- 9.5	- 5.0	208	10.7	—	—	—	—
	17 10	- 1.8	0.0	180	1.8	+ 5.8	- 8.8	303	10.5	+ 5.7	- 11.0	297	12.4
	21 7	- 3.0	0.0	180	3.0	- 2.2	- 8.3	255	8.6	- 0.7	- 13.8	267	13.8
	24 7	- 2.0	- 10.5	259	10.7	0.0	- 10.5	270	10.5	—	—	—	—
	24 9	- 3.0	- 9.5	252	9.9	- 1.9	- 6.5	254	6.7	—	—	—	—
	25 6	- 7.0	- 13.0	242	15.0	- 3.0	- 10.0	253	10.4	+ 0.7	- 15.5	273	15.5
	28 7	—	—	—	—	—	—	—	—	—	—	—	—
	28 9	—	—	—	—	—	—	—	—	—	—	—	—
	28 15	+ 2.3	- 5.0	295	5.5	- 5.0	- 20.0	256	20.5	—	—	—	—
	29 6	0.0	- 4.0	270	4.0	—	—	—	—	—	—	—	—
Mean	..	- 2.3	- 3.0	232	3.8	- 3.2	- 6.8	245	7.5	- 0.2	- 9.1	269	9.1

Altitude.		7000 METRES.				8000 METRES.				Height of Westerly Winds.	Weather System.
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.		
1925	d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s		
Sept.	2 18	—	—	—	—	—	—	—	—	?	Pressure falling
	3 7	—	—	—	—	—	—	—	—	6000 metres	" "
	4 7	—	—	—	—	—	—	—	—	5700 "	" "
	4 11	—	—	—	—	—	—	—	—	5000 "	" "
	4 14	+ 7.0	- 5.0	324	8.6	+ 11.0	- 9.0	321	14.2	5000 "	" "
	6 9	—	—	—	—	—	—	—	—	4500 "	" "
	9 7	—	—	—	—	—	—	—	—	1500 "	" "
	10 17	—	—	—	—	—	—	—	—	2700 "	" "
	11 10	-20.0	-10.5	207	22.4	—	—	—	—	3000 "	" low
	12 7	-11.9	-13.0	228	17.6	—	—	—	—	3000 "	" "
	14 8	—	—	—	—	—	—	—	—	3000 "	" "
	15 13	—	—	—	—	—	—	—	—	2800 "	" rising
	17 10	—	—	—	—	—	—	—	—	3500 "	" "
	21 7	—	—	—	—	—	—	—	—	4000 "	" high
	24 7	—	—	—	—	—	—	—	—	3000 "	" falling
	24 9	—	—	—	—	—	—	—	—	3000 "	" "
	25 6	+ 6.5	-16.0	292	17.2	—	—	—	—	2200 "	" low
	28 7	—	—	—	—	—	—	—	—	2500 "	" rising
	28 9	—	—	—	—	—	—	—	—	2500 "	" "
	28 15	—	—	—	—	—	—	—	—	2500 "	" "
	29 6	—	—	—	—	—	—	—	—	3000 "	" "
Mean	..	- 4.6	-11.1	247	12.1	+ 11.0	- 9.0	321	14.2		

Altitude.		SURFACE.				250 METRES.				500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Oct.	1 8	- 1.7	+ 2.5	124	3.0	- 2.2	+ 8.0	105	8.2	- 2.0	+ 7.5	104	7.8
	1 10	- 1.6	+ 4.0	113	4.3	+ 0.3	+ 7.5	87	7.5	+ 1.0	+ 6.5	81	6.6
	2 15	0.0	+ 5.1	90	5.1	- 0.1	+ 6.3	90	6.3	- 0.3	+ 3.7	94	3.7
	3 7	+ 1.0	+ 1.4	56	1.7	- 2.5	+ 8.0	107	8.4	- 3.2	+ 9.0	109	9.5
	5 7	- 0.7	+ 1.0	124	1.2	+ 2.6	+ 1.8	36	3.2	+ 1.2	+ 0.6	28	1.4
	5 17	+ 0.6	- 2.8	281	2.9	- 0.8	- 4.0	259	4.2	- 0.5	- 3.3	262	3.3
	6 6	- 1.1	+ 1.1	135	1.5	- 4.2	- 2.4	210	4.8	- 3.2	- 1.5	215	2.6
	7 7	- 1.2	+ 1.2	135	1.7	- 1.5	+ 4.1	110	4.4	+ 0.5	+ 3.7	84	3.7
	8 7	- 0.8	+ 0.8	135	1.1	- 0.2	+ 6.5	91	6.5	+ 1.0	+ 9.2	84	9.1
	10 6	- 0.6	+ 0.6	135	0.9	- 4.0	+ 7.0	119	8.0	- 3.1	+ 7.3	113	7.9
	10 17	- 2.1	+ 5.0	112	5.4	- 3.8	+ 8.0	115	8.9	- 3.2	+ 6.8	115	7.5
	11 8	- 1.6	+ 4.0	112	4.3	- 1.3	+ 7.5	99	7.6	- 1.2	+ 8.9	97	8.9
	12 17	+ 1.1	+ 2.7	67	2.9	+ 4.1	+ 4.5	48	6.1	+ 7.5	+ 3.2	22	8.1
	13 7	+ 2.2	+ 2.2	45	3.1	+ 6.6	+ 3.5	28	7.5	+ 12.0	+ 8.0	34	14.4
	13 17	+ 6.0	+ 1.2	11	6.1	+ 6.0	+ 0.1	1	6.0	+ 10.0	+ 0.1	1	10.0
	15 6	+ 1.5	+ 0.6	22	1.6	+ 6.5	+ 3.1	25	7.2	+ 7.0	+ 3.0	23	7.6
	16 6	- 1.1	+ 1.7	124	2.0	+ 2.4	+ 7.8	73	8.2	+ 3.3	+ 8.5	58	9.2
	16 17	+ 1.1	+ 2.8	67	3.0	0.0	+ 6.2	90	6.2	+ 3.0	+ 4.5	56	5.5
	17 7	- 0.9	+ 2.2	112	2.4	+ 0.7	+ 6.1	84	6.1	+ 0.9	+ 5.6	81	5.7
	17 18	0.0	+ 3.4	90	3.4	- 1.0	+ 6.9	98	6.9	- 0.8	+ 4.3	100	4.4
	18 10	+ 1.6	+ 3.9	67	4.2	+ 1.5	+ 9.0	81	9.1	+ 0.8	+ 8.7	85	8.7
	18 17	- 1.7	+ 4.1	112	4.4	- 0.5	+ 9.2	94	9.3	- 0.8	+ 7.0	96	7.0
	19 6	- 0.3	+ 1.7	101	1.7	+ 5.0	+ 7.1	55	8.7	+ 5.6	+ 6.1	47	8.3
	19 18	+ 1.1	+ 1.1	45	1.6	+ 1.2	+ 2.0	60	2.3	+ 2.5	+ 1.4	29	2.8
	20 6	- 0.7	+ 0.9	124	1.1	+ 3.9	+ 1.0	14	4.1	+ 4.1	- 1.1	345	4.2
	22 6	- 4.0	+ 2.6	146	4.8	- 7.8	+ 10.0	128	12.7	- 8.2	+ 9.5	130	12.5
	22 18	- 3.9	+ 3.9	135	5.6	- 7.0	+ 10.0	125	12.2	- 10.0	+ 13.0	127	16.4
	26 6	- 1.2	+ 3.1	112	3.3	+ 1.7	+ 12.2	82	12.2	+ 1.7	+ 9.7	80	0.8
	27 6	- 0.2	+ 1.0	101	1.0	+ 2.0	+ 6.5	73	6.8	+ 2.4	+ 6.2	69	0.7
	29 18	- 1.0	+ 1.4	124	1.7	- 6.5	+ 1.3	169	6.6	- 3.2	- 1.0	198	3.4
	30 6	- 3.3	+ 1.3	158	3.5	- 5.0	0.0	180	10.0	- 6.5	- 3.0	205	7.2
	30 17	- 3.0	+ 4.5	124	5.4	8.0	+ 7.0	138	10.6	- 7.8	+ 4.5	150	9.0
	31 6	- 1.6	+ 1.1	146	1.9	- 6.2	+ 5.0	142	8.1	- 6.8	+ 2.8	158	7.3
	31 17	- 3.2	+ 3.2	135	4.5	- 5.9	+ 5.9	136	8.3	- 5.4	+ 5.0	137	7.4
Mean	..	- 0.7	+ 2.3	106	2.5	- 0.9	+ 5.5	100	5.6	- 0.1	+ 5.0	96	5.0

Altitude.		750 METRES.				1000 METRES.				1500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Oct. 1	8	-1.2	+7.0	99	7.1	-1.0	+11.0	95	11.0	—	—	—	—
1	10	+2.3	+9.0	75	9.3	—	—	—	—	—	—	—	—
2	15	-0.5	+2.5	102	2.5	+1.1	+1.3	50	1.8	+2.5	+2.0	39	3.2
3	7	-2.9	+3.5	130	4.6	-1.9	-0.2	185	1.8	—	—	—	—
5	7	-0.6	-1.9	254	2.0	-0.5	-2.5	259	2.5	—	—	—	—
5	17	-1.2	-2.1	240	2.4	-1.7	-1.3	218	2.1	-3.3	-3.0	222	4.4
6	6	-2.5	-0.5	192	2.5	-2.9	-0.9	198	3.0	—	—	—	—
7	7	+1.2	+1.4	50	1.9	-2.6	+0.5	170	2.7	-4.5	-2.3	207	5.0
8	7	—	—	—	—	—	—	—	—	—	—	—	—
10	6	-2.4	+9.0	105	9.3	-1.5	+10.0	98	10.1	-0.7	+6.8	95	6.8
10	17	-4.0	+6.5	121	7.6	-4.0	+3.9	136	5.6	-3.7	+4.2	131	5.6
11	8	+0.3	+11.1	88	11.1	+2.0	+12.0	81	12.2	+2.0	+7.9	76	8.1
12	17	+8.0	+2.2	15	8.3	+8.0	+0.6	4	8.0	+3.4	+0.7	12	3.4
13	7	+8.9	+4.2	25	9.9	+9.0	+3.1	19	9.6	+9.0	+0.5	3	9.1
13	17	+7.0	-0.8	353	7.1	—	—	—	—	—	—	—	—
15	6	+8.5	+3.0	19	9.0	+10.0	+0.9	5	10.1	+6.0	+6.0	45	8.3
16	6	+2.3	+5.9	69	6.4	+1.4	+3.5	68	3.8	+1.7	+0.9	28	2.0
16	17	+2.8	+3.2	48	4.2	+2.2	+3.0	54	3.7	+1.5	+2.5	59	3.0
17	7	-0.2	+5.0	92	5.0	-1.0	+3.7	104	3.8	-0.1	+1.3	91	1.3
17	18	-1.5	+2.9	117	3.2	-2.3	+1.9	141	2.9	-1.1	+1.2	132	1.6
18	10	+1.1	+7.1	81	7.2	+0.9	+6.0	81	6.1	-0.5	+4.1	97	4.1
18	17	-1.1	+3.4	107	3.6	-0.7	+4.1	99	4.1	+1.0	-2.0	296	2.3
19	6	+4.2	+5.7	53	7.1	+2.7	+4.5	59	5.3	+0.8	+0.2	5	0.8
19	18	+1.0	+1.0	45	1.4	—	—	—	—	—	—	—	—
20	6	+5.0	-5.0	315	7.1	+3.0	-3.0	315	4.3	-0.2	-1.5	264	1.5
22	6	-2.8	+3.0	133	4.2	-0.8	-0.8	225	1.2	-0.5	-5.0	264	5.0
22	18	-14.0	+17.0	129	22.0	-8.5	+14.0	121	16.4	-9.0	+17.0	118	19.2
26	6	+1.2	+2.0	60	2.3	+0.7	+0.5	35	0.8	+4.8	0.0	0	4.8
27	6	+1.1	+4.5	77	4.7	+0.8	+4.2	78	4.2	-0.8	-0.5	218	1.0
29	18	-1.2	-1.7	235	2.0	+1.9	-4.6	292	5.0	+2.5	-4.5	299	5.2
30	6	-3.0	-3.0	225	4.3	-0.5	-4.0	263	4.0	+3.0	-9.0	288	9.5
30	17	-3.2	+1.2	160	3.4	-1.8	-0.6	200	1.9	-3.2	-2.8	221	4.2
31	6	-5.0	+1.2	166	5.1	-2.5	-0.2	184	2.5	+0.4	+1.8	78	1.9
31	17	-3.1	+2.1	146	3.7	-2.0	+0.9	156	2.2	-2.5	+3.0	130	3.9
Mean	..	+0.1	+3.4	89	3.4	+0.2	+2.4	84	2.5	+0.3	+1.1	74	1.1

Altitude.		2000 METRES.				2500 METRES.				3000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Oct. 1	8	—	—	—	—	—	—	—	—	—	—	—	—
1	10	—	—	—	—	—	—	—	—	—	—	—	—
2	15	-0.7	+1.0	123	1.2	-1.9	-1.0	208	2.1	-2.4	-1.5	213	2.8
3	7	—	—	—	—	—	—	—	—	—	—	—	—
5	7	—	—	—	—	—	—	—	—	—	—	—	—
5	17	-9.2	-5.7	212	10.8	-5.3	-7.7	235	9.3	—	—	—	—
6	6	—	—	—	—	—	—	—	—	—	—	—	—
7	7	-6.9	-5.1	217	8.6	-5.0	-4.0	219	6.4	-5.0	-5.5	228	7.4
8	7	—	—	—	—	—	—	—	—	—	—	—	—
10	6	-2.9	+5.8	116	6.6	+0.3	+6.8	87	6.8	—	—	—	—
10	17	-3.5	-0.3	186	3.5	-2.0	+4.5	113	4.9	-3.7	+6.0	121	7.0
11	8	+1.4	+11.1	83	11.2	-3.8	+9.0	113	9.8	—	—	—	—
12	17	+2.0	-0.1	356	2.0	+5.1	-0.7	352	5.1	—	—	—	—
13	7	—	—	—	—	—	—	—	—	—	—	—	—
13	17	—	—	—	—	—	—	—	—	—	—	—	—
15	6	0.0	-1.8	270	1.8	-0.1	-7.5	268	7.5	+2.3	-4.0	299	4.5
16	6	-0.1	-3.0	268	3.0	+3.1	-6.3	296	7.0	+6.5	-7.9	309	10.1
16	17	+3.0	+1.0	20	3.1	+2.5	-1.8	324	3.0	+3.5	-8.0	293	8.8
17	7	+2.6	-1.9	324	3.2	+2.0	-6.1	287	6.4	-0.4	-6.1	266	6.1
17	18	-2.0	-1.3	214	2.5	+0.3	-2.8	274	2.9	+0.5	-4.5	275	4.5
18	10	-1.8	+3.0	120	3.5	-1.8	-1.0	210	2.0	—	—	—	—
18	17	—	—	—	—	—	—	—	—	—	—	—	—
19	6	+2.1	0.0	360	2.1	+0.5	-2.0	284	2.0	0.0	-3.5	270	3.5
19	18	—	—	—	—	—	—	—	—	—	—	—	—
20	6	-4.0	-4.3	227	5.9	-1.0	-3.6	255	3.7	+0.5	-4.7	275	4.7
22	6	-2.1	-8.2	255	8.4	5.1	-8.0	237	9.5	-4.0	-9.0	246	9.9
22	18	—	—	—	—	—	—	—	—	—	—	—	—
26	6	+4.0	0.0	360	4.0	+5.2	-0.5	355	5.2	+2.6	-2.8	312	3.8
27	6	-7.3	-5.2	215	8.8	-5.0	-3.5	215	6.1	+1.0	-3.8	283	3.9
29	18	-0.2	-6.5	267	6.5	—	—	—	—	—	—	—	—
30	6	+1.5	-5.2	285	5.4	-3.8	-7.9	244	8.8	-2.0	-9.0	257	9.2
30	17	-1.4	-4.1	252	4.4	-2.3	-0.5	193	2.3	-2.1	-1.4	215	2.5
31	6	+3.4	-0.1	358	3.4	-2.5	-1.6	212	3.0	-2.0	-0.8	204	2.2
31	17	-0.9	0.0	180	0.9	-1.1	0.0	180	1.1	-1.0	-1.2	230	1.5
Mean	..	-1.0	-1.3	225	1.4	-0.1	-2.1	243	2.3	-0.3	-4.0	266	3.9

Altitude.		4000 METRES.				5000 METRES.				6000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	m/s	°	m/s
Oct. 1 8	—	—	—	—	—	—	—	—	—	—	—	—	—
1 10	—	—	—	—	—	—	—	—	—	—	—	—	—
2 15	+ 2.2	- 0.8	338	2.4	—	—	—	—	—	—	—	—	—
3 7	—	—	—	—	—	—	—	—	—	—	—	—	—
5 7	—	—	—	—	—	—	—	—	—	—	—	—	—
5 17	—	—	—	—	—	—	—	—	—	—	—	—	—
6 6	—	—	—	—	—	—	—	—	—	—	—	—	—
7 7	- 6.0	0.0	180	6.0	- 0.2	- 2.3	263	2.4	+ 1.3	+ 3.8	72	4.1	—
8 7	—	—	—	—	—	—	—	—	—	—	—	—	—
10 6	—	—	—	—	—	—	—	—	—	—	—	—	—
10 17	- 3.0	+ 3.5	130	4.6	+ 2.0	+ 3.0	57	3.6	+ 0.8	+ 1.0	53	1.3	—
11 8	—	—	—	—	—	—	—	—	—	—	—	—	—
12 17	—	—	—	—	—	—	—	—	—	—	—	—	—
13 7	—	—	—	—	—	—	—	—	—	—	—	—	—
13 17	—	—	—	—	—	—	—	—	—	—	—	—	—
15 6	+ 6.0	- 8.5	304	0.4	—	—	—	—	—	—	—	—	—
16 6	+ 9.0	- 8.0	318	2.0	—	—	—	—	—	—	—	—	—
16 17	—	—	—	—	—	—	—	—	—	—	—	—	—
17 7	—	—	—	—	—	—	—	—	—	—	—	—	—
17 18	—	—	—	—	—	—	—	—	—	—	—	—	—
18 10	—	—	—	—	—	—	—	—	—	—	—	—	—
18 17	—	—	—	—	—	—	—	—	—	—	—	—	—
19 6	- 1.0	- 5.0	258	5.1	+ 4.5	- 7.3	301	8.6	- 0.8	- 7.3	264	7.3	—
19 18	—	—	—	—	—	—	—	—	—	—	—	—	—
20 6	+ 4.0	- 8.5	295	9.4	- 2.0	- 14.0	262	14.2	- 1.0	- 10.0	264	10.0	—
22 6	- 5.8	- 10.0	240	1.5	—	—	—	—	—	—	—	—	—
22 18	—	—	—	—	—	—	—	—	—	—	—	—	—
26 6	+ 1.8	- 5.0	289	5.3	+ 4.5	- 7.0	302	8.3	+ 2.5	- 8.0	287	8.4	—
27 6	- 1.3	- 5.7	257	5.8	+ 2.3	- 8.5	285	8.8	+ 2.2	- 15.8	285	16.4	—
29 18	—	—	—	—	—	—	—	—	—	—	—	—	—
30 6	- 0.7	- 8.2	265	8.1	- 13.0	- 15.0	230	2.1	—	—	—	—	—
30 17	—	—	—	—	—	—	—	—	—	—	—	—	—
31 6	- 6.0	- 2.0	198	6.3	- 11.0	- 0.2	181	11.0	- 9.0	- 0.5	183	9.0	—
31 17	- 2.5	- 0.5	193	2.5	- 8.0	+ 0.4	174	8.0	- 16.0	- 5.1	202	19.0	—
Mean ..	- 0.3	- 4.5	265	4.5	- 2.3	- 5.7	247	6.2	- 2.5	- 5.2	244	5.7	—

Altitude.		7000 METRES.				8000 METRES.				Height of Westerly Winds.	Weather System
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.		
1925 d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s			
Oct. 1 8	—	—	—	—	—	—	—	—	—	3000 Metres	Pressure high
1 10	—	—	—	—	—	—	—	—	—	3000	" "
2 15	—	—	—	—	—	—	—	—	—	2500	" falling
3 7	—	—	—	—	—	—	—	—	—	1000	" "
5 7	—	—	—	—	—	—	—	—	—	500	" "
5 17	—	—	—	—	—	—	—	—	—	500	" low
6 6	—	—	—	—	—	—	—	—	—	at surface	" "
7 7	- 2.2	- 1.5	328	2.9	- 1.5	- 1.0	215	1.8	—	2500 metres	" rising
8 7	—	—	—	—	—	—	—	—	—	2000	" "
10 6	—	—	—	—	—	—	—	—	—	5000	" high
10 17	- 1.5	- 10.5	261	10.6	—	—	—	—	—	5000	" "
11 8	—	—	—	—	—	—	—	—	—	?	" falling
12 17	—	—	—	—	—	—	—	—	—	1000	" "
13 7	—	—	—	—	—	—	—	—	—	1700	" low
13 17	—	—	—	—	—	—	—	—	—	1500	" "
15 6	—	—	—	—	—	—	—	—	—	2000	" rising
16 6	—	—	—	—	—	—	—	—	—	2000	" "
16 17	—	—	—	—	—	—	—	—	—	2000	" "
17 7	—	—	—	—	—	—	—	—	—	2000	" high
17 18	—	—	—	—	—	—	—	—	—	2000	" "
18 10	—	—	—	—	—	—	—	—	—	2000	" "
18 17	—	—	—	—	—	—	—	—	—	2000	" "
19 6	—	—	—	—	—	—	—	—	—	2000	" "
19 18	—	—	—	—	—	—	—	—	—	2000	" "
20 6	—	—	—	—	—	—	—	—	—	750	" falling
22 6	—	—	—	—	—	—	—	—	—	1000	" low
22 18	—	—	—	—	—	—	—	—	—	1000	" rising
26 6	- 0.8	- 8.0	276	8.1	—	—	—	—	—	2000	" falling
27 6	0.0	- 12.0	270	12.0	—	—	—	—	—	1500	" "
29 18	—	—	—	—	—	—	—	—	—	500	" low
30 6	—	—	—	—	—	—	—	—	—	at surface	" "
30 17	—	—	—	—	—	—	—	—	—	1000 metres	" "
31 6	—	—	—	—	—	—	—	—	—	2500	" rising
31 17	- 5.5	- 11.0	243	12.4	- 3.0	- 11.0	254	11.5	—	3000	" high
Mean ..	- 0.7	- 8.6	265	8.6	- 2.2	- 6.0	249	6.4	—		

Altitude.		SURFACE.				250 METRES.				500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Nov.	1 6	-0.7	+1.0	123	1.2	-4.9	+4.5	137	6.7	-4.0	+1.2	162	4.2
	1 17	-3.4	+3.4	135	4.8	-6.0	+5.4	138	8.1	-3.1	-0.5	190	3.1
	2 6	-0.9	+2.1	135	1.2	-4.8	+7.0	124	8.6	-4.1	+2.6	147	4.9
	3 6	-1.5	+1.5	135	2.1	0.0	+5.0	90	5.0	+2.0	+1.0	28	2.3
	4 17	-1.1	+5.2	101	5.3	-4.9	+5.8	130	7.7	-5.0	+6.7	126	8.4
	6 6	-0.8	+2.0	112	2.2	-1.0	+9.6	94	9.7	-1.4	+8.1	100	8.3
	6 18	-1.6	+4.0	112	4.3	-0.8	+8.0	95	8.1	-0.9	+6.8	97	6.9
	7 6	-1.0	+2.3	112	2.5	+0.9	+7.0	97	7.2	+1.5	+2.7	62	3.1
	8 7	0.0	+2.8	90	3.8	+0.1	+6.8	90	6.9	-0.7	+5.4	97	5.6
	9 6	-0.3	+0.6	112	0.7	-0.1	+6.8	89	6.9	-1.3	+5.0	104	5.2
	10 6	-1.0	+1.0	135	1.4	-4.9	+6.9	125	8.6	-5.0	+7.3	124	9.0
	10 17	-2.3	+5.5	112	6.0	-4.9	+8.5	120	9.9	-5.6	+10.7	117	12.2
	11 6	-1.2	+3.1	112	3.3	-3.9	+12.5	108	12.8	-4.3	+11.5	110	12.4
	11 18	-1.7	+4.3	112	4.6	-2.9	+7.8	110	8.4	-3.0	+10.5	106	11.0
	12 6	-1.8	+4.3	112	4.7	-1.3	+12.0	96	12.2	-2.1	+14.1	99	14.4
	13 6	-2.5	+6.0	112	6.5	-2.2	+15.1	98	15.0	-2.8	+18.9	98	19.4
	13 13	0.0	+7.9	90	7.9	-3.1	+14.1	102	15.8	-2.9	+13.5	102	13.8
	13 18	-1.3	+6.6	101	6.7	-2.5	+10.5	103	10.9	-2.0	+14.9	98	15.2
	14 6	-1.3	+3.2	112	3.4	-0.5	+11.6	93	11.7	-0.1	+10.7	90	10.8
	14 17	+2.3	+5.5	67	6.0	+0.4	+10.1	88	10.2	-0.3	+9.2	92	9.4
	16 8	+0.7	+3.5	79	3.6	+0.8	+6.6	83	6.7	-0.8	+2.9	104	3.1
	17 8	+0.9	+4.3	79	4.4	+0.3	+7.6	88	7.7	+0.2	+7.5	89	7.6
	19 7	-0.8	+1.1	124	1.4	-10.1	+4.2	91	4.3	-1.8	+3.9	114	4.4
	22 10	-4.7	+7.0	124	8.4	-10.6	+12.5	130	16.4	-7.0	+10.3	124	12.6
	28 6	0.0	+1.8	90	1.8	+3.0	+5.5	62	6.4	+5.6	+2.8	27	6.3
	30 7	+0.7	+1.5	67	1.7	+4.9	+4.0	40	6.4	+3.4	+2.2	34	4.1
Mean	..	-0.9	+3.5	104	3.7	-1.9	+8.2	103	8.4	-1.8	+7.3	104	7.6

Altitude.		750 METRES.				1000 METRES.				1500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Nov.	1 6	-1.5	0.0	180	1.5	+0.7	-3.0	284	3.1	+4.5	-4.5	315	6.4
	1 17	-3.8	-2.0	207	4.3	-1.1	-4.6	256	4.7	+3.2	-8.0	292	8.6
	2 6	-4.8	-2.3	205	5.3	-1.9	-4.7	248	5.0	+4.3	-6.1	305	7.4
	3 6	+5.0	-2.8	330	5.7	+2.0	-3.5	300	4.0	+2.0	-6.0	288	6.3
	4 17	-3.8	+4.9	127	6.2	-4.9	+5.5	131	7.4	-5.6	+3.3	149	6.6
	6 6	-1.6	+7.9	101	8.2	-0.8	+6.5	96	6.6	0.0	+3.2	90	3.2
	6 18	+3.5	+3.1	42	4.7	+3.9	+2.7	35	4.8	+0.2	+0.9	88	1.0
	7 6	+4.2	+0.7	10	4.3	+3.5	+0.1	2	3.5	+1.5	-1.6	314	2.2
	8 7	-3.0	+1.8	148	3.5	-3.6	+0.8	167	3.7	-7.0	-1.7	193	7.2
	9 6	-3.8	+3.2	139	5.0	-4.1	+1.0	166	4.2	-3.9	+0.1	178	3.9
	10 6	-1.6	+7.0	102	7.3	-2.3	+5.9	111	6.4	-5.3	+4.8	137	7.2
	10 17	-2.1	+9.5	102	9.8	-3.1	+2.7	138	4.1	-6.5	+3.3	153	7.2
	11 6	-4.1	+5.1	128	6.6	-2.9	+4.5	122	5.4	+1.6	+4.9	72	5.2
	11 18	-3.8	+11.2	108	11.9	-3.1	+8.0	111	8.6	-2.6	-1.3	206	2.9
	12 6	-2.8	+13.6	101	14.0	-3.6	+8.8	112	9.6	-2.4	+5.2	114	5.8
	13 6	-1.7	+13.6	97	13.8	-0.8	+15.2	93	15.4	+1.2	0.0	360	1.2
	13 13	-2.3	+11.6	101	11.9	-0.6	+6.3	95	6.4	-	-	-	-
	13 18	-1.9	+10.9	100	11.1	-1.3	+5.6	103	5.9	+0.2	+0.5	69	2.8
	14 6	-1.5	+18.8	94	19.0	-1.2	+16.5	94	16.8	-	-	-	-
	14 17	0.0	+12.4	90	12.4	-1.9	+7.3	104	7.6	-2.1	-2.8	232	3.5
	16 8	-1.2	+0.8	145	1.5	+0.6	+1.0	60	1.2	+0.8	0.0	360	0.8
	17 8	+0.2	+5.5	88	5.6	+0.9	+2.1	68	2.4	+1.8	+3.8	65	4.2
	19 7	-2.0	+2.8	124	3.5	-1.8	+3.0	120	3.6	-2.0	+0.9	156	2.2
	22 10	-3.0	+5.7	117	6.5	-2.1	+5.0	113	5.5	0.0	-0.3	270	0.3
	28 6	+8.0	+4.0	27	9.0	+7.0	+4.2	32	8.2	+7.0	+2.0	16	7.3
	30 7	+3.6	+2.1	31	4.2	+3.7	+1.0	16	3.9	+3.8	-0.3	355	3.9
Mean	..	-1.0	+5.7	100	5.8	-0.7	+3.8	100	3.9	-0.2	+0.0	180	0.2

Altitude.		2000 METRES.				2500 METRES.				3000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Nov. 1 6		+ 3.1	+ 2.6	40	4.1	+ 1.5	0.0	360	1.5	- 3.5	+ 1.0	166	3.6
1 17		+ 2.4	- 5.1	295	5.5	+ 2.1	- 5.0	293	5.4	+ 1.9	- 2.2	311	2.9
2 6		+ 3.8	- 4.3	311	5.7	+ 1.7	- 0.5	342	1.8	0.0	- 0.4	90	0.4
3 6		+ 4.8	- 7.0	304	8.5	+ 1.2	+ 1.0	42	1.6	- 3.0	+ 1.0	161	3.2
4 17		- 3.0	+ 7.0	113	7.7	- 4.3	+ 6.4	124	7.8	- 2.6	+ 3.0	130	4.0
6 6		0.0	+ 3.8	90	3.8	+ 1.0	+ 3.9	76	4.1	+ 1.1	+ 7.8	83	7.9
6 18		- 1.8	- 0.8	205	2.0	+ 1.4	- 1.1	321	1.8	+ 3.0	+ 1.0	18	3.2
7 6		- 2.5	- 6.9	250	7.4	- 0.6	- 7.8	265	7.8	+ 1.0	- 4.1	283	4.2
8 7		—	—	—	—	—	—	—	—	—	—	—	—
9 6		- 6.2	- 0.3	183	6.2	- 4.5	- 2.6	210	5.2	- 6.9	- 4.3	212	8.1
10 6		—	—	—	—	—	—	—	—	—	—	—	—
10 17		-16.0	+ 7.1	158	17.2	—	—	—	—	—	—	—	—
11 6		- 1.4	+ 1.9	125	2.4	+ 0.1	+ 4.3	88	4.4	—	—	—	—
11 18		—	—	—	—	—	—	—	—	—	—	—	—
12 6		- 0.3	+ 1.3	90	1.4	—	—	—	—	—	—	—	—
13 6		—	—	—	—	—	—	—	—	—	—	—	—
13 13		—	—	—	—	—	—	—	—	—	—	—	—
13 18		- 3.0	- 0.4	188	3.0	—	—	—	—	—	—	—	—
14 6		—	—	—	—	—	—	—	—	—	—	—	—
14 17		- 3.1	- 4.9	237	5.7	- 6.9	- 1.5	192	7.0	- 6.2	- 3.4	208	7.1
16 8		+ 6.2	- 2.3	340	6.6	+ 6.2	+ 0.6	5	6.3	+ 3.1	- 2.2	325	3.8
17 8		+ 3.2	- 4.5	306	5.5	+ 4.7	- 1.8	339	5.0	+ 4.6	- 1.8	339	4.9
19 7		- 2.9	- 0.8	195	3.0	- 5.4	- 5.0	222	7.3	- 4.7	- 6.9	237	8.3
22 10		—	—	—	—	—	—	—	—	—	—	—	—
28 6		+ 7.7	+ 3.9	27	8.7	+11.1	+ 4.4	22	12.2	+ 3.8	- 0.6	352	3.9
30 7		+ 3.8	- 1.5	339	4.1	—	—	—	—	—	—	—	—
Mean ..		- 0.3	- 0.6	244	0.7	- 0.6	- 0.3	333	0.7	- 0.6	- 0.9	236	1.1

• Altitude.		4000 METRES.				5000 METRES.				6000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Nov. 1 6		- 8.4	- 1.0	188	8.5	- 6.9	- 5.0	216	8.5	- 5.6	- 6.0	228	8.2
1 17		- 5.0	- 6.0	230	7.8	—	—	—	—	—	—	—	—
2 6		- 7.9	- 1.8	193	8.1	+ 0.7	+ 0.6	40	1.0	- 0.9	- 1.6	240	1.8
3 6		0.0	- 2.2	270	2.2	+ 1.2	- 3.5	288	3.7	- 8.0	- 4.5	209	9.1
4 17		- 3.7	+ 2.5	146	4.5	- 6.5	- 4.9	216	8.1	- 6.9	- 9.2	236	11.0
6 6		- 2.9	+ 4.8	120	5.7	—	—	—	—	—	—	—	—
6 18		—	—	—	—	—	—	—	—	—	—	—	—
7 6		+ 6.6	- 3.8	330	7.6	+ 1.0	- 7.8	277	7.9	+ 4.8	- 7.6	303	8.9
8 7		—	—	—	—	—	—	—	—	—	—	—	—
9 6		- 2.0	- 4.3	244	4.7	+ 2.8	- 2.6	315	3.8	+ 5.6	- 8.5	303	10.1
10 6		—	—	—	—	—	—	—	—	—	—	—	—
10 17		—	—	—	—	—	—	—	—	—	—	—	—
11 6		—	—	—	—	—	—	—	—	—	—	—	—
11 18		—	—	—	—	—	—	—	—	—	—	—	—
12 6		—	—	—	—	—	—	—	—	—	—	—	—
13 6		—	—	—	—	—	—	—	—	—	—	—	—
13 13		—	—	—	—	—	—	—	—	—	—	—	—
13 18		—	—	—	—	—	—	—	—	—	—	—	—
14 6		—	—	—	—	—	—	—	—	—	—	—	—
14 17		—	—	—	—	—	—	—	—	—	—	—	—
16 8		—	—	—	—	—	—	—	—	—	—	—	—
17 8		—	—	—	—	—	—	—	—	—	—	—	—
19 7		- 4.8	- 6.3	232	7.9	—	—	—	—	—	—	—	—
22 10		—	—	—	—	—	—	—	—	—	—	—	—
28 6		—	—	—	—	—	—	—	—	—	—	—	—
30 7		—	—	—	—	—	—	—	—	—	—	—	—
Mean ..		- 3.1	- 2.0	213	3.7	- 1.3	- 3.9	252	4.1	- 1.6	- 6.2	255	6.4

Altitude.		7000 METRES.				8000 METRES.				Height of Westerly Winds.	Weather System.
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.		
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s		
Nov. 1	6	—	—	—	—	—	—	—	—	3000 metres	Pressure low
1	17	—	—	—	—	—	—	—	—	500 "	" "
2	6	—	—	—	—	—	—	—	—	700 "	" "
3	6	- 4.0	- 4.5	228	6.0	- 4.0	- 13.0	252	13.6	500 "	" "
4	17	- 1.9	- 10.5	260	10.7	+ 2.7	- 14.3	278	14.4	4000 "	" rising
6	6	—	—	—	—	—	—	—	—	5500 "	" high
6	18	—	—	—	—	—	—	—	—	5500 "	" "
7	6	+ 9.0	- 7.0	322	11.4	—	—	—	—	1000 "	" falling
8	7	—	—	—	—	—	—	—	—	1000 "	" "
9	6	+ 3.2	- 9.0	290	9.5	—	—	—	—	1000 "	" "
10	6	—	—	—	—	—	—	—	—	2000 "	" low
10	17	—	—	—	—	—	—	—	—	2000 "	" "
11	6	—	—	—	—	—	—	—	—	2000 "	" "
11	18	—	—	—	—	—	—	—	—	2000 "	" "
12	6	—	—	—	—	—	—	—	—	1500 "	" "
13	6	—	—	—	—	—	—	—	—	1500 "	" "
13	13	—	—	—	—	—	—	—	—	1500 "	" "
13	18	—	—	—	—	—	—	—	—	1500 "	" "
14	6	—	—	—	—	—	—	—	—	2000 "	" "
14	17	—	—	—	—	—	—	—	—	2000 "	" "
16	8	—	—	—	—	—	—	—	—	2000 "	" falling
17	8	—	—	—	—	—	—	—	—	1800 "	" "
19	7	—	—	—	—	—	—	—	—	1800 "	" low
22	10	—	—	—	—	—	—	—	—	2000 "	" "
28	6	—	—	—	—	—	—	—	—	2500 "	" rising
30	7	—	—	—	—	—	—	—	—	1500 "	" "
Mean	..	+ 1.6	- 7.7	281	7.9	- 0.6	- 13.6	267	13.7		

Altitude.		SURFACE.				250 METRES.				500 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Dec. 1	6	+ 0.1	+ 0.7	79	0.7	+ 0.9	+ 3.9	78	4.1	+ 1.8	+ 2.4	54	3.0
2	6	- 0.4	+ 1.0	112	1.1	- 2.1	+ 7.4	105	8.3	- 2.0	+ 4.8	112	5.3
3	6	0.0	+ 1.7	90	1.7	- 2.5	+ 7.4	109	7.9	- 0.8	+ 3.7	101	3.9
15	7	- 0.7	+ 0.1	169	0.7	- 1.6	+ 1.3	140	2.1	- 2.5	+ 1.9	142	3.2
Mean	..	- 0.2	+ 0.9	110	1.0	- 1.3	+ 5.1	103	5.3	- 0.9	+ 3.2	106	3.3
1926 d. h.													
Feb. 11	8					+ 1.2	+ 4.1	74	4.3	+ 1.6	+ 2.4	56	2.9
12	8					+ 3.2	+ 5.3	60	6.3	+ 2.8	+ 7.3	69	7.9
12	9					+ 2.8	+ 6.4	66	7.1	+ 2.9	+ 5.5	63	6.3
13	7					+ 0.8	+ 4.1	80	4.3	+ 1.2	+ 2.5	65	2.9
15	8					- 5.8	+ 1.8	162	6.1	- 7.1	- 3.0	203	7.7
16	9					- 5.2	+ 6.8	127	8.6	- 8.4	+ 11.4	126	14.4
16	14					- 3.2	+ 0.4	173	3.2	- 0.9	+ 0.5	150	1.0
18	8					- 2.4	+ 9.8	104	10.2	- 2.3	+ 10.0	103	10.3
18	13					- 0.8	+ 8.9	95	9.0	- 0.9	+ 8.0	96	8.1
19	8					- 3.4	+ 14.5	103	14.5	- 3.9	+ 12.0	108	12.7
22	21					+ 0.5	+ 7.1	87	7.1	- 1.1	+ 11.9	96	12.2
23	15					- 2.2	+ 9.3	103	9.7	- 3.0	+ 9.7	107	10.3
25	9					- 3.1	+ 9.1	109	9.7	- 4.7	+ 13.0	110	14.0
25	17					- 4.2	+ 7.8	118	8.9	- 2.8	+ 9.3	107	9.8
Mean	..					- 1.5	+ 6.8	102	7.0	- 1.9	+ 7.1	105	7.3

Altitude.	750 METRES.				1000 METRES.				1500 METRES.			
	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Dec. 1 6	+ 0.4	+ 1.7	76	1.8	0.0	- 0.5	270	0.5	+ 0.5	- 2.6	280	2.6
2 6	- 0.7	+ 4.9	98	5.0	+ 1.0	+ 0.8	40	1.3	- 1.3	+ 3.7	109	4.0
3 6	+ 0.2	+ 1.6	80	1.6	- 0.7	+ 2.8	104	3.0	- 1.8	+ 2.3	127	3.0
15 7	- 3.9	+ 1.1	164	4.0	- 3.1	- 0.2	184	3.1	- 0.6	- 1.8	252	1.9
Mean ..	- 1.0	+ 2.3	114	2.6	- 0.7	+ 0.7	135	1.0	- 0.8	+ 0.4	155	0.9
1926 d. h.												
Feb. 11 8	+ 2.0	+ 2.0	45	2.8	+ 0.6	+ 2.0	74	2.1	+ 0.7	+ 0.8	48	1.1
12 8	+ 4.4	+ 6.8	58	8.2	+ 7.4	+ 9.0	51	11.8	+ 4.0	+ 5.1	52	6.6
12 9	+ 4.9	+ 7.2	57	8.8	+ 7.8	+ 9.4	51	12.2	+ 2.1	+ 5.3	67	5.6
13 7	+ 1.0	+ 2.4	68	2.7	+ 1.6	+ 3.6	65	4.0	+ 1.4	+ 0.6	25	1.5
15 8	- 6.1	- 4.2	214	7.4	- 6.8	- 2.9	203	7.4	- 0.5	- 1.9	255	2.0
16 9	- 4.3	+ 8.8	116	9.9	- 2.2	+ 4.9	114	5.4	- 0.9	- 1.1	230	1.4
16 14	- 1.0	+ 0.1	179	1.4	- 1.4	- 0.2	188	1.4	- 4.1	+ 0.8	169	4.2
18 8	- 3.7	+ 10.1	110	10.9	- 3.0	+ 6.5	115	7.2	+ 1.2	+ 3.7	73	4.0
18 13	- 0.3	+ 6.8	93	6.9	- 0.2	+ 6.5	91	6.6	+ 1.0	+ 0.6	32	1.2
19 8	- 2.4	+ 9.0	105	9.4	- 1.4	+ 5.9	103	6.1	- 0.7	+ 0.6	140	0.9
22 21	- 0.3	+ 14.5	91	14.4	- 1.5	+ 11.6	98	11.8	—	—	—	—
23 15	- 2.0	+ 11.5	100	11.7	- 1.4	+ 9.0	98	9.2	- 2.3	+ 9.3	104	9.7
25 9	- 2.0	+ 9.5	105	9.6	- 3.9	+ 11.2	109	11.9	- 3.5	+ 9.8	110	10.5
25 17	- 6.3	+ 14.0	114	15.6	- 4.3	+ 10.6	112	11.5	- 1.8	+ 4.2	112	4.7
Mean ..	- 1.1	+ 7.0	99	7.1	- 0.6	+ 6.2	97	6.3	- 0.2	+ 2.9	94	3.0
Altitude.	2000 METRES.				2500 METRES.				3000 METRES.			
	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Dec. 1 6	—	—	—	—	—	—	—	—	—	—	—	—
2 6	- 2.3	+ 2.8	128	3.7	- 2.4	- 0.5	168	2.4	- 3.5	0.0	180	3.5
3 6	- 3.7	+ 3.7	133	5.3	- 5.7	+ 4.0	144	7.0	- 1.8	+ 0.8	155	1.9
15 7	- 5.8	- 2.6	204	6.3	—	—	—	—	—	—	—	—
Mean ..	- 3.9	+ 1.3	162	4.1	- 4.0	+ 2.2	151	4.6	- 2.6	+ 0.4	171	2.6
1926 d. h.												
Feb. 11 8	+ 0.7	0.0	360	0.7	+ 1.7	+ 0.9	28	1.9	—	—	—	—
12 8	+ 5.8	+ 4.6	39	7.5	—	—	—	—	—	—	—	—
12 9	+ 5.2	+ 5.2	45	7.4	—	—	—	—	—	—	—	—
13 7	- 0.6	- 3.0	258	3.1	- 0.9	- 1.7	242	1.9	- 0.7	- 1.2	240	1.4
15 8	- 1.7	- 2.0	230	2.6	- 1.0	- 2.9	251	3.0	+ 0.4	- 2.4	278	2.4
16 9	- 0.4	0.0	180	0.4	—	—	—	—	—	—	—	—
16 14	+ 1.7	- 0.9	332	2.0	- 0.5	- 0.8	248	0.9	- 0.2	+ 2.1	94	2.2
18 8	+ 1.9	+ 2.7	56	3.3	+ 1.5	+ 1.0	33	1.9	+ 2.9	+ 0.1	2	2.9
18 13	+ 5.5	- 3.1	331	6.3	—	—	—	—	—	—	—	—
19 8	- 1.7	+ 0.6	160	1.8	+ 0.2	+ 1.1	80	1.1	- 0.7	0.0	180	0.7
22 21	—	—	—	—	—	—	—	—	—	—	—	—
23 15	- 0.2	+ 0.3	120	0.4	- 2.6	+ 4.1	122	4.9	- 3.8	+ 2.3	148	4.5
25 9	—	—	—	—	—	—	—	—	—	—	—	—
25 17	—	—	—	—	—	—	—	—	—	—	—	—
Mean ..	+ 1.5	+ 0.4	15	1.6	- 0.2	+ 0.2	135	0.3	- 0.4	+ 0.1	166	0.4

Altitude.		4000 METRES.				5000 METRES.				6000 METRES.			
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Dec. 1 6		—	—	—	—	—	—	—	—	—	—	—	—
2 6		— 2.0	— 1.6	218	2.6	+ 0.8	— 6.0	276	6.1	— 1.9	— 7.0	261	7.1
3 6		— 3.1	+ 1.6	154	3.7	— 5.0	— 1.3	192	5.2	— 4.7	— 2.4	207	5.3
15 7		—	—	—	—	—	—	—	—	—	—	—	—
Mean ..		— 2.6	0.0	190	2.6	— 2.1	— 3.6	240	4.1	— 2.8	— 4.7	239	5.5
1926 d. h.		—	—	—	—	—	—	—	—	—	—	—	—
Feb. 11 8		—	—	—	—	—	—	—	—	—	—	—	—
12 8		—	—	—	—	—	—	—	—	—	—	—	—
12 9		—	—	—	—	—	—	—	—	—	—	—	—
13 7		— 1.2	+ 0.8	145	1.4	— 1.8	+ 1.0	150	2.1	— 1.9	— 1.8	223	2.6
15 8		— 1.3	— 1.0	218	1.6	— 0.4	+ 2.9	97	3.0	— 1.1	— 2.7	248	2.9
16 9		—	—	—	—	—	—	—	—	—	—	—	—
16 14		+ 0.3	+ 2.8	84	2.9	0.0	+ 2.2	90	2.2	+ 0.9	+ 2.2	69	2.4
18 8		+ 2.0	+ 0.6	17	2.1	+ 1.8	— 0.5	344	1.9	+ 4.6	— 4.6	315	6.5
18 13		—	—	—	—	—	—	—	—	—	—	—	—
19 8		—	—	—	—	—	—	—	—	—	—	—	—
22 21		—	—	—	—	—	—	—	—	—	—	—	—
23 15		— 0.7	+ 0.6	140	0.9	+ 0.8	— 4.3	280	4.3	— 2.8	— 10.1	254	10.5
25 9		—	—	—	—	—	—	—	—	—	—	—	—
25 17		—	—	—	—	—	—	—	—	—	—	—	—
Mean ..		— 0.2	+ 0.8	104	0.8	+ 0.1	+ 0.3	72	0.3	— 0.1	— 3.4	268	3.4

Altitude.		7000 METRES.				8000 METRES.				Height of Westerly Winds.	Weather System
		N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.		
1925 d. h.		m/s	m/s	°	m/s	m/s	m/s	°	m/s	1000 Metres 3000 " 5000 " 1000 "	Pressure high " rising " high " rising
Dec. 1 6		—	—	—	—	—	—	—	—		
2 6		—	—	—	—	—	—	—	—		
3 6		—	—	—	—	—	—	—	—		
15 7		—	—	—	—	—	—	—	—		
Mean ..		—	—	—	—	—	—	—	—		
1926 d. h.		—	—	—	—	—	—	—	—		
Feb. 11 8		—	—	—	—	—	—	—	—		
12 8		—	—	—	—	—	—	—	—		
12 9		—	—	—	—	—	—	—	—		
13 7		— 1.0	— 2.6	249	2.8	— 4.3	+ 4.2	135	6.1		
15 8		+ 2.7	— 3.8	306	4.6	—	—	—	—		
16 9		—	—	—	—	—	—	—	—		
16 14		—	—	—	—	—	—	—	—		
18 8		— 0.9	— 2.4	249	2.5	— 5.2	— 6.2	230	8.1		
18 13		—	—	—	—	—	—	—	—		
19 8		—	—	—	—	—	—	—	—		
22 21		—	—	—	—	—	—	—	—		
23 15		+ 1.0	— 8.8	276	8.8	—	—	—	—		
25 9		—	—	—	—	—	—	—	—		
25 17		—	—	—	—	—	—	—	—		
Mean ..		+ 0.4	— 4.4	275	4.4	— 4.7	— 1.9	193	4.8		

Altitude.	SURFACE.				250 METRES.				500 METRES.			
	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1926 d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Mar. 2 7	—	—	—	—	— 1.1	+ 8.0	97	8.2	— 0.8	+ 7.4	96	7.6
2 16	—	—	—	—	— 4.2	+ 5.0	130	6.5	— 2.5	+ 2.7	132	3.8
3 7	—	—	—	—	— 3.3	+ 7.5	114	8.3	— 4.0	+ 8.0	117	8.9
4 7	—	—	—	—	— 7.4	+ 3.7	153	8.3	— 7.1	+ 3.8	151	8.1
5 7	—	—	—	—	— 4.2	+ 4.8	131	6.5	— 3.7	+ 4.8	127	6.2
Mean ..	—	—	—	—	— 4.0	+ 6.0	123	7.2	— 3.6	+ 5.3	124	6.4
1926 d. h.												
Apr. 26 9	—	—	—	—	— 0.1	+ 8.9	90	9.0	— 0.8	+ 5.2	98	5.3
Mean ..	—	—	—	—	— 0.1	+ 8.9	90	9.0	— 0.8	+ 5.2	98	5.3

Altitude.	750 METRES.				1000 METRES.				1500 METRES.			
	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1926 d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Mar. 2 7	— 0.9	+ 7.2	97	7.4	— 1.1	+ 4.0	105	4.2	— 1.0	+ 6.9	98	7.1
2 16	— 3.8	+ 4.9	127	6.3	— 0.8	+ 2.2	128	2.9	— 3.6	+ 3.0	140	4.7
3 7	— 4.4	+ 8.8	116	9.9	— 4.8	+ 4.0	140	6.3	— 4.4	+ 3.8	139	5.9
4 7	— 7.2	+ 4.3	149	8.5	— 7.1	+ 3.0	158	7.8	— 3.8	+ 0.7	166	3.1
5 7	— 3.0	+ 2.7	138	4.1	— 2.9	+ 2.1	143	3.6	— 4.2	+ 1.0	166	4.4
Mean ..	— 3.8	+ 5.6	124	6.8	— 3.5	+ 3.1	138	4.7	— 3.2	— 3.1	135	4.5
1926 d. h.												
Apr. 26 9	+ 1.4	+ 2.1	58	2.6	+ 1.5	+ 0.9	30	1.8	+ 8.4	+ 1.0	7	8.5
Mean ..	+ 1.4	+ 2.1	58	2.6	+ 1.5	+ 0.9	30	1.8	+ 8.4	+ 1.0	7	8.5

Altitude.	2000 METRES.				2500 METRES.				3000 METRES.			
	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1926 d. h.	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
Mar. 2 7	— 1.8	+ 3.5	117	4.0	— 4.9	+ 9.7	118	10.4	—	—	—	—
2 16	— 3.4	+ 5.8	120	6.8	— 2.2	+ 4.8	114	5.4	— 4.3	+ 3.7	139	5.8
3 7	—	—	—	—	—	—	—	—	—	—	—	—
4 7	— 4.5	+ 0.5	174	4.5	— 6.2	+ 4.6	143	7.8	— 1.6	+ 4.3	110	4.7
5 7	— 4.6	+ 0.4	175	4.6	— 4.3	— 0.7	189	4.4	— 2.9	— 1.8	212	3.4
Mean ..	— 3.5	+ 2.5	145	4.3	— 4.4	+ 4.4	135	6.2	— 2.6	+ 2.0	143	3.3
1926 d. h.												
Apr. 26 9	+ 3.5	— 1.9	332	4.0	+ 2.2	— 0.8	340	2.4	— 5.2	+ 2.9	331	5.9
Mean ..	+ 3.5	— 1.9	332	4.0	+ 2.2	— 0.8	340	2.4	— 5.2	+ 2.9	331	5.9

[illegible]

TABLE II.—MEAN NORTH AND EAST COMPONENTS AND DIRECTION AND VELOCITY OF THE WIND IN EACH MONTH OF THE YEAR DURING THE SURVEY 1925 JULY TO 1926 APRIL.

[Velocities are given in metres per sec. and Directions in degrees from North through East.]

Altitude.	SURFACE.				250 METRES.				500 METRES.			
Month.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
July ..	- 1.7	+ 3.3	116	3.7	- 4.9	+ 6.4	127	8.0	- 4.7	+ 6.0	127	7.6
August ..	- 1.3	+ 4.8	105	4.9	- 4.6	+ 6.9	124	8.2	- 4.6	+ 6.9	124	8.2
September ..	- 1.0	+ 4.2	103	4.3	- 1.3	+ 6.2	102	6.3	- 0.7	+ 6.2	96	6.2
October ..	- 0.7	+ 2.3	106	2.5	- 0.9	+ 5.5	100	5.6	- 0.1	+ 5.0	96	5.0
November ..	- 0.9	+ 3.5	104	3.7	- 1.9	+ 8.2	103	8.4	- 1.8	+ 7.3	104	7.6
December ..	- 0.2	+ 0.9	110	1.0	- 1.3	+ 5.1	103	5.3	- 0.9	+ 3.2	106	3.3
1926												
January ..	—	—	—	—	—	—	—	—	—	—	—	—
February ..	—	—	—	—	- 1.5	+ 6.8	102	7.0	- 1.9	+ 7.1	105	7.3
March ..	—	—	—	—	- 4.0	+ 6.0	123	7.2	- 3.6	+ 5.3	124	6.4
April ..	—	—	—	—	- 0.1	+ 8.9	91	9.0	- 0.8	+ 5.2	99	5.3
Weighted Mean ..	—	—	—	—	- 2.4	+ 6.6	108	7.1	- 2.2	+ 6.2	108	6.6

Altitude.	750 METRES.				1000 METRES.				1500 METRES.			
Month.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
July ..	- 3.1	+ 4.8	121	5.6	- 1.0	+ 2.8	108	2.9	- 1.3	+ 1.2	138	1.0
August ..	- 3.7	+ 6.2	120	7.2	- 2.0	+ 3.9	117	4.4	- 2.5	+ 1.8	144	3.1
September ..	+ 0.1	+ 4.2	89	4.2	+ 0.4	+ 2.5	81	2.5	+ 1.0	+ 1.4	54	1.7
October ..	+ 0.1	+ 3.4	89	3.4	+ 0.2	+ 2.4	84	2.5	+ 0.3	+ 1.1	74	1.1
November ..	+ 1.0	+ 5.7	100	5.8	- 0.7	+ 3.8	100	3.9	- 0.2	0.0	180	0.2
December ..	- 1.0	+ 2.3	114	2.6	- 0.7	+ 0.7	135	1.0	- 0.8	+ 0.4	155	0.9
1926												
January ..	—	—	—	—	—	—	—	—	—	—	—	—
February ..	- 1.1	+ 7.0	99	7.1	- 0.6	+ 6.2	97	6.3	- 0.2	+ 2.9	94	3.0
March ..	- 3.8	+ 5.6	124	6.8	- 3.5	+ 3.1	138	4.7	- 3.2	+ 3.1	135	4.5
April ..	+ 1.4	+ 2.1	58	2.6	+ 1.5	+ 0.9	35	1.7	+ 8.4	+ 1.0	7	8.5
Weighted Mean ..	- 1.5	+ 5.0	106	5.2	- 0.6	+ 3.3	102	3.4	- 0.4	+ 1.3	110	1.5

Altitude.	2000 METRES.				2500 METRES.				3000 METRES.			
Month.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
July ..	- 0.6	- 1.6	250	1.7	- 0.5	- 4.4	263	4.4	- 0.9	- 5.6	260	5.7
August ..	- 0.9	- 1.4	236	1.6	- 2.6	- 0.3	187	2.6	- 0.3	+ 0.2	146	0.4
September ..	- 1.0	+ 2.6	111	2.8	- 0.8	+ 1.6	117	1.8	- 1.6	- 0.2	187	1.6
October ..	- 1.0	- 1.3	225	1.4	- 1.0	- 2.1	243	2.3	- 0.3	- 4.0	266	3.9
November ..	- 0.3	- 0.6	244	0.7	+ 0.6	- 0.3	333	0.7	- 0.6	- 0.9	236	1.1
December ..	- 3.9	+ 1.3	162	4.1	- 4.0	+ 2.2	151	4.6	- 2.6	+ 0.4	171	2.6
1926												
January ..	—	—	—	—	—	—	—	—	—	—	—	—
February ..	+ 1.5	+ 0.4	15	1.6	- 0.2	+ 0.2	135	0.3	- 0.4	+ 0.1	166	0.4
March ..	- 3.5	+ 2.5	145	4.3	- 4.4	+ 4.4	135	6.2	- 2.6	- 2.0	143	3.3
April ..	+ 3.5	- 1.9	331	4.0	+ 2.2	- 0.8	340	2.4	+ 5.2	- 2.9	331	5.9
Weighted Mean ..	- 0.7	- 0.2	196	0.7	- 0.9	- 0.6	211	1.1	- 0.8	- 1.8	243	2.0

Altitude.	4000 METRES.				5000 METRES.				6000 METRES.			
Month.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	m/s	m/s	°	m/s	m/s	m/s	°	m/s	m/s	m/s	°	m/s
July ..	+ 5.5	- 8.6	302	10.2	+ 5.5	- 7.3	310	8.3	—	—	—	—
August ..	+ 2.4	- 4.7	295	5.2	+ 0.1	- 10.7	270	10.7	- 6.6	- 4.9	217	8.2
September ..	- 2.3	- 3.0	232	3.8	- 3.2	- 6.8	245	7.5	- 0.2	- 9.1	269	9.1
October ..	- 0.3	- 4.5	265	4.5	- 2.3	- 5.7	247	6.2	- 2.5	- 5.2	244	5.7
November ..	- 3.1	- 2.0	213	3.7	- 1.3	- 3.9	252	4.1	- 1.6	- 6.2	255	6.4
December ..	- 2.6	0.0	190	2.6	- 2.1	- 3.6	240	4.1	- 2.8	- 4.7	239	5.5
1926	—	—	—	—	—	—	—	—	—	—	—	—
January ..	—	—	—	—	—	—	—	—	—	—	—	—
February ..	- 0.2	+ 0.9	104	0.8	+ 0.1	+ 0.3	72	0.3	- 0.1	- 3.4	268	3.4
March ..	- 4.8	- 0.3	183	4.8	- 2.3	- 7.4	253	7.8	—	—	—	—
April ..	—	—	—	—	—	—	—	—	—	—	—	—
Weighted Mean ..	- 0.9	- 3.4	255	3.5	- 1.5	- 5.4	255	5.6	- 1.6	- 6.0	255	6.3

Altitude.	7000 METRES.				8000 METRES.			
Month.	N.	E.	Dir.	Vel.	N.	E.	Dir.	Vel.
1925	m/s	m/s	°	m/s	m/s	m/s	°	m/s
July ..	—	—	—	—	—	—	—	—
August ..	- 11.0	- 4.5	233	18.3	—	—	—	—
September ..	- 4.6	- 11.1	247	12.1	+ 11.0	- 9.0	321	14.2
October ..	- 0.7	- 8.6	265	8.6	- 2.2	- 6.0	249	6.4
November ..	+ 1.6	- 7.7	281	7.9	- 0.6	- 13.6	267	13.7
December ..	—	—	—	—	—	—	—	—
1926	—	—	—	—	—	—	—	—
January ..	—	—	—	—	—	—	—	—
February ..	+ 0.4	- 4.4	275	4.4	- 4.7	- 1.0	193	4.8
March ..	—	—	—	—	—	—	—	—
April ..	—	—	—	—	—	—	—	—
Weighted Mean ..	- 1.4	- 8.3	260	8.4	- 0.6	- 7.2	266	7.4

TABLE III.—FREQUENCIES AND PERCENTAGE FREQUENCIES OF WIND DIRECTIONS
AT VARYING ALTITUDES.

TOTAL FREQUENCIES.															
Altitude	250	500	750	1000	1500	2000	2500	3000	4000	5000	6000	7000	8000		
Direction—															
N	2	3	6	11	14	9	7	4	1	—	1	—	—		
NE	9	16	17	17	10	8	8	1	2	3	1	—	—		
E	61	55	42	36	18	9	6	7	3	1	1	—	—		
SE	49	45	43	24	23	14	9	5	5	—	—	—	—		
S	5	7	9	14	10	8	9	8	9	2	2	—	—		
SW	1	3	8	6	10	15	18	16	8	10	8	2	1		
W	5	2	2	8	10	16	14	15	10	11	7	5	3		
NW	1	2	2	3	8	9	6	7	11	7	4	2	—		
Total	133	133	129	119	103	88	77	63	49	34	24	9	4		

SUMMARY UNDER 4 DIRECTIONS.

North winds	2	3	6	11	14	9	7	4	1	—	1	—	—
South winds	5	7	9	14	10	8	9	8	9	2	2	—	—
Winds with easterly component	119	116	102	77	51	31	23	13	10	4	2	—	—
Winds with westerly component	7	7	12	17	28	40	38	38	29	28	19	9	4

PERCENTAGE FREQUENCIES.

	%	%	%	%	%	%	%	%	%	%	%	%	%
N	1	2	5	9	13	10	9	6	2	0	4	—	—
NE	6	12	13	14	10	9	10	2	4	9	4	—	—
E	46	41	32	30	17	10	8	11	6	3	4	—	—
SE	37	34	33	20	22	16	12	8	10	0	0	—	—
S	4	5	7	12	10	9	12	13	18	6	8	—	—
SW	1	2	6	5	10	17	23	25	16	29	33	22	25
W	4	2	2	7	10	18	18	24	21	32	30	56	75
NW	1	2	2	3	8	10	8	11	23	21	17	22	—

SUMMARY UNDER 4 DIRECTIONS.

North winds	2	2	5	9	14	10	9	6	2	0	4	—	—
South winds	4	5	7	12	10	9	12	13	18	6	8	—	—
Winds with easterly component	89	87	79	65	49	35	30	20	20	12	8	—	—
Winds with westerly component	5	6	9	14	27	46	49	61	60	82	80	100	100

TABLE IV.—FREQUENCIES AND PERCENTAGE FREQUENCIES OF WIND VELOCITIES AT VARYING ALTITUDES.

TOTAL FREQUENCIES.														
Altitude		Metres.												
		250	500	750	1000	1500	2000	2500	3000	4000	5000	6000	7000	8000
Velocity.														
Miles per Hour	m/s													
below 11	below 5	19	38	58	68	63	46	35	45	16	9	4	1	1
11-20	5-9	69	46	35	32	29	34	34	12	19	14	7	2	0
20-29	9-13	34	31	24	15	9	6	6	6	11	8	8	6	1
29-38	13-17	8	13	9	3	0	1	0	1	1	2	4	0	1
39-47	17-21	2	4	2	1	1	1	0	0	2	1	1	0	1
47-56	21-25	0	0	2	0	0	0	0	0	0	0	0	0	0

PERCENTAGE FREQUENCIES.														
Miles per Hour	m/s	%	%	%	%	%	%	%	%	%	%	%	%	%
below 11	below 5	14	29	45	57	62	52	47	70	33	26	17	11	—
11-20	5-9	52	35	27	27	28	37	45	19	39	41	29	22	—
20-29	9-13	26	23	19	13	9	7	8	9	22	24	33	67	—
29-38	13-17	6	10	7	2	—	2.1	—	2	2	6	17	—	—
39-47	17-21	2	3	1	1	1	2.1	—	—	—	3	4	—	—
47-56	21-25	0	0	1	—	—	—	—	—	4	—	—	—	—

TABLE V.—MEAN POSITION OF ORIGIN OF CYCLONIC STORMS IN THE SOUTH INDIAN OCEAN.

Month.	Longitude [E].	Latitude [S].
November	66.8	13.0
December	62.8	13.8
January	61.8	13.9
February	62.6	14.6
March	63.0	14.4
April	66.0	13.9
May	68.4	11.1

TABLE VI.—PERCENTAGE FREQUENCIES OF WESTERLY AND EASTERLY WINDS RESPECTIVELY IN DIFFERENT PRESSURE SYSTEMS AND AT VARYING ALTITUDES.

PRESSURE.								
Altitude Metres	Rising.		Falling.		High.		Low.	
	Percentage Frequencies of							
	Westerly Winds.	Easterly Winds.	Westerly Winds.	Easterly Winds.	Westerly Winds.	Easterly Winds.	Westerly Winds.	Easterly Winds.
	%	%	%	%	%	%	%	%
250	0	100	10	90	0	100	6	94
500	0	100	10	90	0	100	12	88
750	7	93	10	90	4	96	32	68
1000	14	86	39	61	6	94	33	67
1500	42	58	29	71	23	77	42	58
2000	57	43	27	73	50	50	60	40
2500	60	40	67	33	40	60	68	32
3000	60	40	62	38	44	56	71	29
4000	64	36	72	28	40	60	100	0
5000	100	0	67	33	80	20	75	25
6000	80	20	67	33	80	20	100	0
7000	100	0	100	0	100	0	100	0
8000	100	0	—	—	—	—	—	—

APPENDIX

SUMMARIES OF SURFACE AND UPPER WIND FREQUENCIES FOR EACH MONTH OF THE
PERIOD JULY TO NOVEMBER, 1925.

JULY, 1925.

1,500 FEET (500 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	—	4	4	—	—	—	1	—
16-31	—	—	2	1	1	—	—	—	
32-47	—	—	—	4	—	—	—	—	
									TOTAL (all cases)
TOTAL	—	—	6	9	1	—	—	1	17

3,000 FEET (1,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	1	1	2	2	1	1	—	—	4
16-31	—	1	1	1	—	—	—	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	1	2	3	3	1	1	—	—	15

6,000 FEET (2,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	1	1	—	1	3	—	3	1	—
16-31	—	—	—	—	—	1	—	1	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	1	1	—	1	3	1	3	2	12

10,000 FEET (3,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	—	1	—	—	1	2	—	—
16-31	—	—	—	—	—	1	3	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	—	—	1	—	—	2	5	—	8

AUGUST, 1925.

1,500 FEET (500 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	1	3	2	1	—	—	—	2
16-31	—	—	4	14	1	—	—	—	
32-47	—	—	—	2	—	—	—	—	
									TOTAL (all cases)
TOTAL	—	1	7	18	2	—	—	—	30

3,000 FEET (1,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	1	—	2	1	3	1	—	—	3
16-31	1	1	3	4	1	—	1	—	
32-47	—	—	1	—	—	—	—	—	
									TOTAL (all cases).
TOTAL	2	1	6	5	4	1	1	—	23

6,000 FEET (2,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	1	—	—	1	2	2	—	1
16-31	—	1	1	—	1	—	2	1	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	—	2	1	—	2	2	4	1	13

10,000 FEET (3,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	1	—	—	1	1	1	2	—	—
16-31	—	—	1	—	—	—	—	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	1	—	1	1	1	1	2	—	7

SEPTEMBER, 1925.

1,500 FEET (500 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	3	3	4	—	—	1	—	—
16-31	—	—	7	1	—	—	—	—	
32-47	—	—	2	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	—	3	12	5	—	—	1	—	21

3,000 FEET (1,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	1	4	3	3	—	1	1	1	4
16-31	—	1	2	—	—	—	—	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	1	5	5	3	—	1	1	1	21

6,000 FEET (2,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	2	5	4	1	1	2	1	1
16-31	—	—	—	1	—	—	—	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	—	2	5	5	1	1	2	1	18

10,000 FEET (3,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	1	—	2	1	4	4	1	1	2
16-31	—	—	—	—	—	—	—	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	1	—	2	1	4	4	1	1	16

OCTOBER, 1925.

1,500 FEET (500 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	1	2	7	—	1	1	1	—	1
16-31	2	2	7	5	1	1	—	—	
32-47	—	1	—	1	—	—	—	—	
									TOTAL (all cases)
TOTAL	3	5	14	6	2	2	1	—	34

3,000 FEET (1,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	3	5	3	5	1	3	1	2
16-31	3	—	3	1	—	—	—	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	3	3	8	4	5	1	3	1	30

6,000 FEET (2,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	5	—	—	2	1	2	5	1	2
16-31	—	—	1	—	—	3	1	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	5	—	1	2	1	5	6	1	23

10,000 FEET (3,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	—	—	1	—	4	5	2	—
16-31	—	—	—	—	—	2	1	2	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	—	—	—	1	—	6	6	4	17

NOVEMBER, 1925.

1,500 FEET (500 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	—	4	4	2	2	—	—	—	—
16-31	—	—	7	4	—	—	—	—	
32-47	—	—	3	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	—	4	14	6	2	—	—	—	26

3,000 FEET (1,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	2	1	5	4	2	—	3	1	1
16-31	—	1	3	1	—	—	—	—	
32-47	—	—	2	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	2	2	10	5	2	—	3	1	26

6,000 FEET (2,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	2	1	2	1	3	2	—	3	—
16-31	—	1	—	1	—	—	1	1	
32-47	—	—	—	—	1	—	—	—	
									TOTAL (all cases)
TOTAL	2	2	2	2	4	2	1	4	19

10,000 FEET (3,000 METRES).

Speed : m.p.h.	N	NE	E	SE	S	SW	W	NW	No. of cases of 0-3 m.p.h.
4-15	3	—	—	1	2	—	1	2	1
16-31	—	—	1	—	—	3	—	—	
32-47	—	—	—	—	—	—	—	—	
									TOTAL (all cases)
TOTAL	3	—	1	1	2	3	1	2	14