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METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ปีที่ ๑ ฉบับที่ ๑

มกราคม ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 1
January 1951

89092

National Oceanic and Atmospheric Administration

Environmental Data Rescue Program

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กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค เจ้ากรมอุตุนิยมวิทยา
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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAe กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

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กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month January Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft	01 100	02 200	03 300	04 400	05 500	06 07 600 700	08-09 800 900	10 14 1000 1400	15 29 1500-2900	30 79 3000 7900	V)‾(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16 23 (3200 4600 m.)													
24 39 (4800 7800 m.)													
40 or more (8000 or more)										2	3	26	31
Total										2	3	26	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)‾(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month January Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1		30	31
Total										1		30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month January Time observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											3	28	31
Total											3	28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month January Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10 14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1					3	4
24-39 (4800-7800 m.)											1	8	9
40 or more (8000 or more)											2	15	17
Total							1				3	27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month January Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		83	15	4									102
NE		76	11	2									89
E		94	28	30	4	4							160
SE		1	1										2
S		44	9	-	1								54
SW		9	2										11
W		72	12										84
NW		98	29	4									131

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month January Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	hh	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL		
		00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month January

Height of thermometer above ground 4.0 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					1						
34	1				7						
33	2				5						
32	4				2						
31	8				5						
30	1	2			5						
29	2	9			5	2					
28	3	6			-	9					
27	8	2			1	5					
26	1	5	4			1					
25	-	4	5	1		5					
24	1	2	4	-		4	1	1	1		1
23		1	5	9		4	4	-	1	6	3
22			4	3		1	6	4	5	3	3
21			5	6			5	5	6	3	4
20			3	3			3	3	5	3	2
19			1	1			4	6	3	4	7
18				4			2	3	5	5	1
17				4			5	2	5	4	2
16							1	3		3	3
15								2			5
14								-			
13								2			
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month January Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)								1		22	3	5	31
Total								1		22	3	5	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month January Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)											1		1
01 (200 m.)										1			1
02 (400 m.)													
03 (600 m.)									1	1		7	9
04 (800 m.)													
05 (1000 m.)										1			1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)								1		4		11	16
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1		1	2
24-39 (4800-7800 m.)													
40 or more (8000 or more)								1					1
Total								2	1	8	1	19	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month January Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		13	14										27
NE		14	23										37
E		7	21	1									28
SE		2	1	1									4
S		1	1										2
SW		1	2										3
W		2											2
NW			1										1

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month January Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff		0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month January

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36					1						
35					2						
34	1				3						
33	2				3						
32	2				4						
31	2				6						
30	1				2						
29	8				6						
28	5	1			2	1					
27	3	4			1	3					
26	1	2			1	2					
25	4	8				4					
24	1	4				4					
23		3	1			5		1	2		
22	1		2	1		2		2	4		
21		5	6			5		4	4	1	
20		3	2	4		2	4	1	3	4	1
19		1	4	3		2	2	4	5	3	4
18			4	4		1	3	6	3	5	2
17			1	5			6	2	2	3	4
16			3	3			4	2	3	3	6
15			3	1			1	3	4	2	2
14			1	2			2	3	1	2	2
13			3	2			2	1		2	2
12			1	2			2	1		5	2
11				2			3			1	2
10				2			2				2
9											2
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{M^{ax} + M^{in}}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month January Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											6	25	31
Total											6	25	31

Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month January Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06 07 600-700	08-09 800 900	10 14 1000 1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										3	7	21	31
Total										3	7	21	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month January Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												2	2
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										6	5	18	29
Total										6	5	20	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month January Time of observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		1	-	2									3
NE		7	15	12	5	1							40
E		46	46	77	115	33							317
SE		22	11	3	6								42
S		4	1										5
SW		4											4
W		4											4
NW													

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month January Time of Observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome. the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month January

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31											
30					4						
29	18				19						
28	10				7	3					
27	-	16	2	2	1	18					
26	2	11	18	13		8	3				
25	-	4	7	8		2	11	2	1		1
24	1		4	3			10	13	9		3
23				5			4	12	12		11
22							3	4	7		15
21									1		-
20									1		1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยากัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 · Part 2

February 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 2

February 1951

Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.

Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month February Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/C	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										4	3	21	28
Total										4	3	21	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh

(b) The figures in the column marked V/C indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month February Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											1	27	28
Total											1	27	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month February Time observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											1	27	28
Total											1	27	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang **Year** 1951 **Month** February **Time of observation** 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)‾(	Total
00 (<200 m.)												2	2
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)												1	1
08-09 (1600-1800 m.)												3	3
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												11	11
24-39 (4800-7800 m.)												7	7
40 or more (8000 or more)										1		3	4
Total										1		27	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)‾(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month February Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		9	4										13
NE		81	20	2	1								104
E		88	28	13	9	6							144
SE		52	32	3									87
S		108	80	8	2								198
SW		38	20										58
W		57	9										66
NW		33	14										47

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month February Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200- 600 m.	800- 1400	1600- 4600	<200 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = ,, ,, ,, ,, 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = ,, ,, ,, ,, 150 metres (500 feet) ,, ,, ,, 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = ,, ,, ,, ,, ,, 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = ,, ,, ,, ,, ,, 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month February

Height of thermometer above ground 4.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37					1						
36					1						
35					5						
34	4				12						
33	7				5						
32	9				1						
31	5	4			1						
30	-	7			1	1					
29	1	7			1	4					
28	-	8				12					
27	-	1				5					
26	2	1	7			3				1	
25			4			3				1	
24			9	1					1	6	
23			6	7			8	1	4	5	3
22			1	12			8	3	6	5	6
21			1	5			7	6	5	3	7
20				-			1	3	7	2	3
19				3			4	7	1	1	4
18								4	1	2	1
17								1	1	2	3
16								1	1		-
15								1	1		1
14								1			
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month February Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500 2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200 1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000 2200 m.)													
12-15 (2400-3000 m.)								1				4	5
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												9	9
40 or more (8000 or more)										2		11	13
Total								1		2		25	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month February Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)—(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												1	1
04 (800 m.)												1	1
05 (1000 m.)											1	5	6
06-07 (1200 1400 m.)													
08-09 (1600-1800 m.)												4	4
10-11 (2000-2200 m.)												7	7
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												4	4
24-39 (4800-7800 m.)											1	1	2
40 or more (8000 or more)												3	3
Total											2	26	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)—(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month February Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		1	3										4
NE		11	5	8									24
E		2	6	3									11
SE		5											5
S		7	3										10
SW		8	7	1									16
W		9	4										13
NW		7	3										10

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month February Time of Observation 2400, 0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff		0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows.

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn rajasima Year 1951 Month February

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38					8						
37	4				-						
36	2				4						
35	5				7						
34	2				1						
33	3				4						
32	4				-						
31	2	4			2						
30	3	3			-	3					
29	-	4			-	5					
28	-	5			1	3					
27	1	2	1		1	2		1			
26	-	3	-			4		-			
25	-	4	2	1		2		-			
24	1	1	5	-		7		-			
23	-	-	2	-		2		1	2		1
22	-	1	-	4			2	1	3	2	-
21	-	-	6	2			3	1	3	1	3
20	1	1	8	1			3	2	5	4	1
19			1	5			3	4	5	4	2
18			2	2			4	8	6	5	2
17			1	5			5	3	1	8	4
16				-			-	3	1	2	2
15				8			7	3	2	2	3
14							-	1			9
13							-				-
12							1				1
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule;

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 **Month** February **Time observation** 0600 **GMT**

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200 1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											1	27	28
Total											1	27	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figured of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month February Time observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200 1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											3	25	28
Total											3	25	28

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figured of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month February Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06 07 600 700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1	1	26	28
Total										1	1	26	28

Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month February Time of observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N													
NE		3	3										6
E		28	24	25	11	8	1						97
SE		6	3	1	1								11
S		5											5
SW													
W		4											4
NW													

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month February Time of Observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0 6 (0 11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29 38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			> 40 (>75 km.)			TOTAL		
hh	00-01	02 04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	< 30- 30 m.	60 120	150- 270	< 30- 30 m.	60- 120	150- 270	< 30- 30 m.	60- 120	150- 270	< 30- 30 m.	60- 120	150- 270	< 30- 30 m.	60- 120	150- 270	< 30- 30 m.	60- 120	150- 270	< 30- 30 m.	60- 120	150- 270	< 30- 30 m.	60- 120	150- 270	< 30- 30 m.	60- 120	150- 270
vv	00-03	04-07	08-23	00-03	04 07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04 07	08-23	00-03	04 07	08-23
	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800 1400	1600- 4600	<200- 600 m.	800 1400	1600- 4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = ,, ,, ,, ,, 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = ,, ,, ,, ,, 150 metres (500 feet) ,, ,, ,, 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = ,, ,, ,, ,, ,, 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = ,, ,, ,, ,, ,, 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome ; the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month February

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31											
30	12				16						
29	11				10						
28	4	2	1	1	2	2					
27	-	19	6	-		7					
26	1	6	8	5		17	2				
25		-	9	1		2	5	2	1		
24		1	4	9			2	6	1		4
23				11			12	13	14		7
22				1			7	5	11		15
21								2	1		1
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule:

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

บีที่ ๑ ฉบับที่ ๓

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 3

March 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 3

March 1951

Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month March Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)										7	2	21	30
Total										8	2	21	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month March Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200 1400 m.)													
08 09 (1600 1800 m.)													
10-11 (2000 2200 m.)													
12-15 (2400 3000 m.)													
16 23 (3200 4600 m.)													
24-39 (4800 7800 m.)													
40 or more (8000 or more)											3	28	31
Total											3	28	31

Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month March Time observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1		30	31
Total										1		30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month March Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 hs of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10 14 1000 1400	15-29 1500-2900	30 79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200 1400 m.)													
08-09 (1600 1800 m.)													
10-11 (2000 2200 m.)													
12-15 (2400 3000 m.)													
16 23 (3200 4600 m.)												2	2
24-39 (4800 7800 m.)										1	1	13	15
40 or more (8000 or more)												14	14
Total										1	1	29	31

Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month March Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		6	2										8
NE		18	5	1	2								26
E		58	45	9	5		1						118
SE		107	125	44	6	2							284
S		56	80	27	9								172
SW		34	36	9	1								80
W		28	12										40
NW		3											3

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month March Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile)
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month March

Height of thermometer above ground 4.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37					6						
36	2				10						
35	6				8						
34	13				7						
33	4	1									
32	5	3									
31	1	10				3					
30		12				15					
29		4				7					
28		1	4			6					
27			14					1			
26			5	2			1	-			
25			7	10			4	-	1	10	2
24			1	12			13	5	10	9	5
23				5			10	7	12	6	17
22				2			2	4	4	3	4
21							-	5	-	1	1
20							1	4	-	1	-
19								1	2	1	1
18								2	1		-
17								-	1		1
16								1			
15								1			
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule; $\frac{Max+Min}{2}$

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Nakorn Rajasima Year 1951 Month March Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												15	15
40 or more (8000 or more)											1	14	15
Total											1	30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month March Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̲	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)												4	4
03 (600 m.)												2	2
04 (800 m.)												5	5
05 (1000 m.)												5	5
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												3	3
10-11 (2000-2200 m.)												1	1
12-15 (2400-3000 m.)												6	6
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)													
40 or more (8000 or more)												4	4
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̲ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month March Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		6	5	3	-	1	1						16
NE		17	12	7	1	1							38
E		4	5	1	1	1							12
SE		4	2	2	-	-	1	-	2				11
S		6	9	3									18
SW		7	5	8	3	3	-	2					28
W		6	4	3	1								14
NW		6	3										9

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Nakorn Rajasima Year 1951 Month March Time of Observation 2400, 0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month March

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40					2						
39	2				4						
38	-				12						
37	5				8						
36	2				3						
35	11				3						
34	3	1			-						
33	2	1			1						
32	2	4			1						
31	-	2			2	5					
30	-	9				12					
29	2	4				4					
28	2	2				5					
27		2	2			1					
26		2	6			1					
25		3	10	1		3			1	1	
24		-	4	7			5	1	1	-	
23		-	2	12			7	10	2	5	4
22		1	3	3			10	4	7	9	12
21			4	3			2	5	9	7	4
20				1			3	2	3	3	4
19				1			-	3	5	2	1
18				-			1	-	2	2	1
17				3			2	2	1	1	-
16							-	2		1	-
15							1	1			4
14								1			-
13											1
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule; Max+Min

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month March Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											2	29	31
Total											2	29	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month March Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											3	23	31
Total											3	28	31

Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month March Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												1	1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											4	26	30
Total											4	27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month March Time of observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N													
NE		1	1	2									4
E		18	20	38	28	5	2						111
SE		2	3	5	3								13
S		4	1										5
SW		3											3
W													
NW													

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month March Time of Observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month March

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	24 GI
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32	2				6						
31	14				14						
30	10				11						
29	4	1				8					
28	1	19		1		13					
27		10		3		10					1
26		1		8		5	5				
25			13	7			6	9			
24			15	7			8	13	8		11
23			3	3			8	5	13		10
22				2			3	3	8		7
21							1	1	2		1
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 4

April 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

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April 1951

Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Don Muang Year 1951 Month April Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06 07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)										4	1	24	29
Total										5	1	24	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month April Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												3	3
24-39 (4800-7800 m.)												3	3
40 or more (8000 or more)												24	24
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month April Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N													
NE		6	2										8
E		77	46	7	6	3	1						140
SE		82	103	39	6	1							231
S		67	81	24	16	1							189
SW		37	38	7	1								83
W		23	11	2									36
NW		10	2	1									13

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month April Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff		0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28 33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile)
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month April

Height of thermometer above ground 4.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39					5						
38	1				7						
37	4				13						
36	13				2						
35	8				3						
34	1	2				1					
33	1	8				4					
32	1	11				10					
31	-	3				10					
30	1	3	1			3					
29		2	8			2					
28		-	11	2			1				
27		-	5	8			3			2	
26		-	2	12			13	1	2	5	6
25		1	2	4			6	3	2	11	4
24			1	4			6	8	11	4	10
23							1	5	5	6	4
22								5	7	-	4
21								5	3	2	2
20								1			
19								-			
18								-			
17								1			
16								-			
15								1			
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{\text{Max} + \text{min}}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month April Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06 07 600 700	08-09 800 900	10 14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06 07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12 15 (2400 3000 m.)													
16 23 (3200 4600 m.)													
24 39 (4800 7800 m.)												6	6
40 or more (8000 or more)										2		22	24
Total										2		28	30

Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month April Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)												4	4
05 (1000 m.)												4	4
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												1	1
10-11 (2000-2200 m.)												1	1
12-15 (2400-3000 m.)												6	6
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												14	14
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month April Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		2	1										3
NE		7	4	2									13
E		6	3	3									12
SE		-	8	3	-	1	1						13
S		8	5	3	-	1							17
SW		12	13	4	2	1							32
W		10	9	1	-	1							21
NW		9	3	1									13

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month April Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	hh	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
		00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200- 600 m.	800- 1400	1600 4600	<200 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month April

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42					2						
41					2						
40	2				5						
39	3				7						
38	4				2						
37	3				4						
36	9				5	1					
35	3				1	-					
34	3	1			-	-					
33	1	2			1	5					
32	-	6			-	5					
31	-	7			1	7					
30	1	2				7					
29	1	2	1			3					
28		2	5	1		1					
27		4	4	2		1					
26		2	6	6			6				
25		1	7	11			4	1	1	2	
24		-	6	7			6	1	-	4	8
23		1	1	3			10	8	12	15	9
22							4	6	13	8	12
21								8	3	1	1
20								4	1		
19								1			
18								1			
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max+Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month April Time observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)									1				1
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											1	28	29
Total									1		1	28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month April Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V.) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12 15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												30	30
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month April Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10 14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)												1	1
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)										1			1
06-07 (1200-1400 m.)												1	1
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)										1	2	23	26
Total										3	2	25	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month April Time of observation 1800 - 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		2	-	1									3
NE		7	8	11	3	2							31
E		11	7	10	3	2							33
SE		4	-	2	2	1							9
S		7	2										9
SW		8	2	2	1								13
W		8	2	3	3								16
NW													

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month April Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome: the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Sonpkhla Year 1951 Month April

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36					1						
35					-						
34	1				5						
33	2				5						
32	9				11						
31	10	1			7						
30	5	8			1	1					
29	1	11				13					
28	-	7		2		11					
27	-	3		3		5	3	1	1		
26	-			8			1	4	1		1
25	-			14			10	8	5		4
24	2			3			10	11	16		9
23							2	5	5		12
22							1	1	1		3
21							1		-		1
20							2		-		
19									1		
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ปีที่ ๑ ฉบับที่ ๕

พฤษภาคม ๒๔๙๔

MAY 20 1953

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 5

May 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

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สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

บีที่ ๑ ฉบับที่ ๕

พฤษภาคม ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 5

May 1951

Aeronautical Statistics

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Number of occurrences of specified values of surface dry bulb and dewpoint temperatures at 0600, 1200, 1800, and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures (Table IV) at Don Muang, Nakorn Rajasima, and Songkhla Airport. 7,12,18

คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month May Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)													
40 or more (8000 or more)										8	2	20	30
Total										9	2	20	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Don Muaug Year 1951 Month May Time observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)												5	5
40 or more (8000 or more)										1		24	25
Total										2		29	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table 1

Aerodrome Don Muang Year 1951 Month May Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06 07 600-700	08-09 800-900	10 14 1000-1400	15 29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										2		28	30
Total										2		29	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muaug Year 1951 Month May Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	80-90 800-900	10 14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)										1			1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1					1	2
24-39 (4800-7800 m.)												2	2
40 or more (8000 or more)										5		21	26
Total							1			6		24	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month May Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		1											1
NE		30	6	-	1	1							38
E		81	41	13	3								138
SE		111	75	22	9								217
S		53	39	20	4	1							117
SW		37	9	-	1								47
W		47	20										67
NW		27	11	1									39

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month May Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30 30 m.	60 120	150 270	<30 30 m.	60 120	150- 270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month May

Height of thermometer above ground 4.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38					2						
37					8						
36	3				4						
35	5				5						
34	8				6						
33	6	1			3						
32	3	5			1	1					
31	3	3			-	9					
30	-	6			1	11					
29	1	5	1		1	6					
28	2	4	6			2					
27		4	8	4		1			2	1	
26		3	10	13		1	8		3	5	1
25			5	11			14	7	12	11	11
24			1	2			7	9	10	9	12
23				1			1	13	4	4	6
22							1	2		1	1
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{max+min}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month May Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										6	8	17	31
Total										6	8	17	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month May Time observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												2	2
04 (800 m.)												1	1
05 (1000 m.)												1	1
06-07 (1200-1400 m.)								2				1	3
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)										1			1
12-15 (2400-3000 m.)												5	5
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												2	2
40 or more (8000 or more)								1			1	14	16
Total								3		1	1	26	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month May Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		5	2	1									8
NE		6	1	2									9
E		2	6	-	-	2							10
SE		4	3										7
S		7	6										13
SW		10	14	3	1	-	1						29
W		16	7	3									26
NW		5	3										8

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month May Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for these elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month May

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38					2						
37					2						
36	1				6						
35	5				7						
34	8				3						
33	7				8						
32	5				2						
31	3	2			1	2					
30	2	3				9					
29		7				8					
28		3				10					
27		5	2	1		2					
26		4	6	7				7	2		
25		5	13	12			4	10	11		7
24		2	7	10			13	11	13	14	14
23			2	1			12	2	3	14	9
22			1				-	1	1	3	1
21							2		1		
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{max+min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month May Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										6		23	29
Total										6		25	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Songkhla Year 1951 Month May Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10 14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)										1		1	2
40 or more (8000 or more)										6		22	28
Total										7		24	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month May Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)										1			1
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										2		27	29
Total										3		28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is base are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month May Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		4	3										7
NE		7	8	14	4	1							34
E		4	4	8	1								17
SE		6	2										8
S		14	7	9	1								31
SW		18	23	16	6	3	1						67
W		13	10	10	9	3	1						46
NW		4	3	4									11

Note: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Songkhla Year 1951 Month May Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0 6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17 21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02 04	05-09	00-01	02-04	05-09	00-01	02 04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05 09	00-01	02-04	05-09	00-01	02-04	05 09	00-01	02-04	05-09
	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
vv	00 03	04-07	08-23	00 03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04 07	08-23	00-03	04-07	08 23	00 03	04 07	08 23	00-03	04-07	08-23
	<200- 600 m.	800- 1400	1600- 4600	<200 600m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600m.	800- 1400	1600- 4600	<200- 600m.	800- 1400	1600- 4600	<200- 600m.	800- 1400	1600- 4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05 09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month May

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36					1						
35	1				3						
34	1				3						
33	5				7						
32	7				12						
31	5				5						
30	6	4				4					
29	3	10				11					
28	1	7	2			15					
27	-	6	5			1		1			
26	2	3	15	18			2	3			
25		1	9	12			13	9	11	5	2
24				1			13	14	10	13	14
23							3	4	9	9	14
22									1	3	1
21										-	
20										1	
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

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นาวาเอก จรูญ วิชยาภัย บุนนาค
เจ้ากรม
Capt. Charoon V. Bunnag R.T.N.,
Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ปีที่ ๑ ฉบับที่ ๖

มิถุนายน ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 6
June 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 6

June 1951

Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month June Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10 14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										3	1	25	29
Total										3	1	26	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figured of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month June Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Tota
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)											1		1
24-39 (4800-7800 m.)												4	4
40 or more (8000 or more)										1		24	25
Total										1	1	28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month June Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)											1	1	2
40 or more (8000 or more)											1	27	28
Total											2	28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figured of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month June Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												2	2
24-39 (4800-7800 m.)							1				1	6	8
40 or more (8000 or more)											2	18	20
Total							1				3	26	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month June Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		1											1
NE		1											1
E		37	25	7	1								70
SE		61	55	30	1								147
S		76	37	18	2								133
SW		120	30	7	2								159
W		48	29	27	13	3							120
NW		4											4

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Don Muang Year 1951 Month June Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200- 600 m.	800- 1400	1600 4600	<200 600 m.	800 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile)
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month June

Height of thermometer above ground 4.0 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					4						
34	3				10						
33	8	1			6						
32	5	-			5						
31	9	4			4	2					
30	2	5			-	7					
29	1	6			1	16					
28	-	7	5			4					
27	-	5	11	8		1					
26	2	-	11	10			10	2	1	4	3
25		-	3	8			13	8	15	18	10
24		2		4			7	11	9	1	9
23								9	3	6	5
22									2	-	3
21										-	
20										1	
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month June Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600 700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06 07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10 11 (2000 2200 m.)													
12-15 (2400-3000 m.)													
16 23 (3200 4600 m.)													
24 39 (4800-7800 m.)											1		1
40 or more (8000 or more)										4	5	20	29
Total										4	6	20	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figured of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month June Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)												3	3
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												8	8
40 or more (8000 or more)											1	18	19
Total											1	29	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month June Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		1	1										2
NE		2	-	1									3
E		-	1										1
SE		1	2	3									6
S		8	8	4									20
SW		5	14	9	-	1							29
W		10	18	21	9	4	3						65
NW													

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Nakorn Rajasima Year 1951 Month June Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome: the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima **Year** 1951 **Month** June

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					2						
34	2				4						
33	9				10						
32	5				8						
31	6				4						
30	6	1			2						
29	1	4				9					
28	–	5				15					
27	1	7				6					
26		7	3					4	2		
25		2	18	21			1	7	6	1	1
24		2	9	9			17	5	5	11	10
23		1					8	9	9	9	15
22		1					4	1	6	9	4
21								4	2		
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Songkhla Year 1951 Month June Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V (V)	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												5	5
40 or more (8000 or more)										2		22	24
Total										2		28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V (V) indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month June Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)										1			1
12-15 (2400-3000 m.)												1	1
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)												6	6
40 or more (8000 or more)												21	21
Total										2		28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month June Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)												1	1
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)												1	1
16-23 (3200-4600 m.)												6	6
24-39 (4800-7800 m.)												10	10
40 or more (8000 or more)												11	11
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month June Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		2	2	1									5
NE		9	4	19	4	-	1						37
E		6	9	9	1								25
SE		4	3	2									9
S		25	16	3									44
SW		12	12	10	4	3	2						43
[illegible]		9	2	8	5	2							22
[illegible]		1											1

N[illegible]nd direction is with reference to true North.

[illegible] observations upon which the above table is based are those made at the meteorological wind [illegible]rvation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Songkhla Year 1951 Month June Time of Observation 1800-1[illegible]00 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and, or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	hh / vv	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
		00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	hh	<30 m.	30-60	60-150	<30 m.	30-120	60-150	<30 m.	30-120	60-150	<30 m.	30-120	60-150	<30 m.	30-120	60-150	<30 m.	30-120	60-150	<30 m.	30-120	60-150	<30 m.	30-120	60-150	<30 m.	30-120	60-150
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome: the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month June

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					1						
34	2				4						
33	5				5						
32	4				7						
31	10	1			10						
30	4	12			2	1					
29	2	5	1		1	9					
28	1	4	1			13					
27	2	6	8	1		7					
26		1	14	15			2	1	3		2
25		1	5	10			12	4	6	5	4
24			1	4			12	13	8	8	9
23							3	9	8	11	10
22							1	2	2	3	5
21								-	1	3	
20								1	1		
19									1		
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month June Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										2		27	29
Total										2		28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month June Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1		1	2
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)									1	1	1	24	27
Total									1	3	1	25	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month June Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15 29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)												1	1
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												1	1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												7	7
40 or more (8000 or more)												21	21
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month June Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		3											3
NE													
E		2											2
SE		7	2										9
S		54	15	1	3	1							74
SW		31	9	2									42
W		2	2										4
NW		-	-	1									1

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Chiengmai Year 1951 Month June Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	hh / vv	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month June

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33	1										
32	4										
31	6										
30	5										
29	4	5									
28	4	5									
27	1	8									
26	4	6	2						2		
25	1	4	16	9				3	5		
24		2	10	16			17	13	9	14	7
23			2	5			12	10	13	12	17
22							1	3	1	4	6
21								1			
20											
19											
18											
17											
16											
15											
14											
13											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

พิมพที่
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กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

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กรกฎาคม ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 7

July 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

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Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAe กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month July Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15 29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										4		27	31
Total										4		27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month July Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)									1				1
24-39 (4800-7800 m.)													
40 or more (8000 or more)										13	2	15	30
Total									1	13	2	15	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month July Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)										5		25	30
Total										6		25	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month July Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										2	1	27	30
Total										2	1	28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month July Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		8	3										11
NE		10	6										16
E		29	8	1									38
SE		79	31	17	7	1							115
S		63	17	13	-	1							94
SW		67	7	5	-	-	-	1					79
W		135	82	47	6	3	3	-	1				227
NW		25	24	7									56

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Don Muang Year 1951 Month July Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

	ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
dd		<30			<30	60-	150-	<30	60-	150-	<30	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60-	150-	<30-	60	150	<30-	60	150-
		30 m.			30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270	30 m.	120	270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200-	800-	1600-	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200-	800-	1600	<200	800	1600-	<200-	800	1600-
		600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600	600 m.	1400	4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month July

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					3						
34					16						
33	6				2						
32	9	3			2						
31	7	5			5						
30	2	5			2	10					
29	4	6			-	14					
28	2	6	2		-	2					
27	1	2	11	3	-	4					
26		4	9	13	1	-	5	1		3	
25			4	14		1	15	6	11	12	11
24			5	1			10	14	13	14	12
23							1	9	7	2	7
22								1			1
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakron Rajasima Year 1951 Month July Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)									2				2
40 or more (8000 or more)									6	23			29
Total									8	23			31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakron Rajasima Year 1951 Month July Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)							1		2	1			4
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)										2			2
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)									1	1			2
40 or more (8000 or more)									5	13	2	3	23
Total							1		8	17	2	3	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month July Time of observation 1800,2100,2400.0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		3	2										5
NE		2	1										3
E		3	4	1									8
SE		2	1	1									4
S		6	7	4	1								18
SW		4	4	1	1								10
W		21	26	18	9	1							75
NW		-	3										3

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Nakorn Rajasima Year 1951 Month July Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd	ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month July

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36					8						
35	7				5						
34	7				5						
33	1				3						
32	4				4						
31	4	1			-						
30	1	3			4	3					
29	3	4			1	14					
28	1	6			-	6					
27	2	7			1	3					
26	-	2	2			4		1			
25	1	3	11	12		1	1	5	3	2	1
24		4	14	15			6	8	10	6	8
23		1	4	4			16	11	14	14	17
22							8	2	3	8	5
21								4	1	1	
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to thefollowing rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month July Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)					1								1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)									1			1	2
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										1	1	26	27
Total					1				1	1	1	28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month July Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)									1				1
40 or more (8000 or more)										3		26	29
Total									1	3		27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month July Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̲	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												1	1
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												3	3
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												5	5
40 or more (8000 or more)												22	22
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̲ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month July Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		4	5	4	2								15
NE		11	15	43	5	-	1						75
E		23	17	19	9	-	1						69
SE		22	4	4	-	1							31
S		31	19	10	2	-	1						63
SW		54	59	56	32	15							216
W		32	24	23	16	4	1						100
NW		5	-	-	-	1							6

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrom Songkhla Year 1951 Month July Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW								1	2			1														1	3
W						2		1	3			1			1											1	7
NW												1															1
Calm																											
Total						2		2	5			3			1											2	11

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome. the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month July

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34					1						
33	2				4						
32	8				8						
31	7				12						
30	7	2			3	1					
29	1	10			1	5					
28	3	4	1		-	11					
27	-	4	2		1	11					
26	-	2	11	5	1	1	1	1	1		
25	2	5	10	12		1	7	2	2	3	2
24	1	3	6	11		1	12	11	9	10	5
23		1	1	3			10	12	12	10	17
22							1	4	7	6	6
21								1		2	-
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: Max + Min

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month July Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)										4	6	20	30
Total										5	6	20	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month July Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										4	2	25	31
Total										4	2	25	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month July Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)													
40 or more (8000 or more)										3	3	24	30
Total										3	3	24	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month July Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		54	8	3	2								67
NE		2											2
E		9											9
SE		31	3	1									35
S		158	18	6									172
SW		76	9	-	2	1							88
W		15											15
NW		20	1										21

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrom Chiengmai Year 1951 Month July Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200- 600 m.	800- 1400	1600 4600	<200 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600	<200 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month July

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32	3										
31	10										
30	3	1									
29	7	8									
28	1	1									
27	4	7									
26	2	6	1						2		
25	1	5	10	5				4	6	1	
24		3	14	19			8	18	12	8	5
23			5	6			15	8	9	12	18
22			1	1			8	1	2	10	6
21											2
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

พิมพที่
โรงพิมพ์กรมอุทกศาสตร์ ธนบุรี
๑ ม.ค. ๘๖

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 8

August 1951

89092

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

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Capt. Charoon V. Bunnag R.T.N.,

Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ปีที่ ๑ ฉบับที่ ๘

สิงหาคม ๒๔๙๔

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Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำดิน กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain, R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month August Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										3		28	31
Total										3		28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month August Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)													
40 or more (8000 or more)										8		22	30
Total										9		22	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month August Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10 14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month August Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08 09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400 3000 m.)													
16-23 (3200 4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											1	29	30
Total											1	30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month August Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		5	1	1	1								8
NE		1											1
E		6	6	3									15
SE		23	10	4									37
S		47	14	6	2								69
SW		140	37	8									185
W		169	125	93	15	4	1	-	2				409
NW		16	10	1									27

Notes. a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month August Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff		0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W		-	-	1	-	1	-																			-	1	1
NW																												
Calm																												
Total		-	-	1	-	1	-																			-	1	1

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet),
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards),
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile),
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 miles).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month August

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					2						
34					8						
33	1				12						
32	11	1			5						
31	11	5			1	1					
30	7	4			3	9					
29	1	5				16					
28		7	8			5					
27		2	12	5			1			1	
26		3	4	19			16		4	4	
25		1	5	7			12	3	11	7	3
24							1	12	10	11	12
23							1	13	6	7	15
22								3		1	1
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month August Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ⌒ (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										7		24	31
Total										7		24	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V ⌒ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month August Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakron Rajasima Year 1951 Month August Time of observation 1800, 2100, 2400, 0300, 0600, 0900, 1200, 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		-	4										4
NE		1											1
E		-	1										1
SE													
S		1	-	1									2
SW		2	2	1									5
W		[illegible]	37	32	21								126
NW		-	1										1

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month August Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges.

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month August

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36					3						
35	1				1						
34	4				3						
33	6				8						
32	6				8						
31	2				5						
30	6	5			4	1					
29	8	5			2	5			1		
28	-	7			1	9			-		
27	2	8			1	11			-		
26	1	3	2			4			1		
25		2	12	7		1		2	5		1
24		1	13	17			6	6	9	8	3
23			4	7			20	16	9	15	17
22							5	6	5	9	8
21								1	1	-	2
20										1	
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month August Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)									1			2	3
40 or more (8000 or more)										1		27	28
Total									1	1		29	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month August Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										4		26	30
Total										4		27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 30 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month August Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1						1
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												29	29
Total							1					30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month August Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̅	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1		30	31
Total										1		30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̅ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month August Time of observation 1300-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		5	7	6	1								19
NE		9	26	10									45
E		6	6	12	1								25
SE		4	3	2	2	-	-	1					12
S		40	29	16	5	6							96
SW		72	65	61	24	7	4						233
W		33	25	33	18	17	10	2					138
NW		3	-	1									4

Notes. a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month August Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																					1						1
S																											
SW																											
W						1						1									2						4
NW																											
Calm																											
Total						1						1									3						5

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month August

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34	1				1						
33	2				6						
32	9				16						
31	10				8						
30	4	4									
29	1	10				11					
28	-	7	1			13					
27	8	7	4			7					
26	-	2	15	9				2			
25	1	-	7	16			10	10	5	2	1
24		1	4	6			14	11	12	13	8
23							6	5	13	13	19
22							1	2	1	2	1
21								1		1	1
20											1.
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month August Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										6	4	21	31
Total										6	4	21	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month August Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										8	2	21	31
Total										8	2	21	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month August Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										1		29	30
Total										1		30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month August Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										4		26	30
Total										4		27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month August Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		24	-	1	1								26
NE		3	-	3									6
E													
SE		24	-	-	1								25
S	.	117	-	1									118
SW		68											68
W		14	-	-	1								15
NW		3											3

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Chiengmai Year 1951 Month August Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling whitin the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month August

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32	2										
31	6										
30	9										
29	5										
28	1	6									
27	3	6									
26	4	12						1	1		
25	1	6	15	2				4	8	1	1
24		1	15	23			10	19	14	10	8
23			1	6			19	7	8	20	16
22							2				6
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

พิมพ์ที่
โรงพิมพ์กรมอุทกศาสตร์ ธนบุรี
พ.ศ. ๙๖

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 9

September 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

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สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ปีที่ ๑ ฉบับที่ ๙

กันยายน ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 9

September 1951

Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordanc with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangemen makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments an equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Don Muang Year 1951 Month September Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										9		21	30
Total										9		21	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month September Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15 29 1500-2900	30-79 3000-7900	V)‾(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												30	30
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)‾(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month September Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										3	1	25	29
Total										3	1	26	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month September Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)								1	1	4	2	21	29
Total								1	1	4	2	22	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month September Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		17	11	1									29
NE		39	14	6									59
E		61	30	7	-	1							99
SE		88	38	11	1								138
S		61	32	9	1	1							104
SW		72	14	5	2	1							94
W		102	46	4	1	3							156
NW		34	8	3									45

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month August Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling whitin the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month September

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					2						
34	2				5						
33	7				12						
32	2				5						
31	6	6			3	1					
30	6	7			2	9					
29	3	8			-	12					
28	3	4	13	1	1	5					
27	1	2	7	11		2	4	2		1	1
26		2	5	9		1	12	4	1	8	7
25		1	4	5			5	10	10	13	10
24			1	4			6	11	17	7	8
23							3	3	-	1	4
22									2		
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule; $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month October Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/π	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)												3	3
05 (1000 m.)													
06-07 (1200-1400 m.)												6	6
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)												4	4
12-15 (2400-3000 m.)									2			1	3
16-23 (3200-4600 m.)									1				1
24-39 (4800-7800 m.)												2	2
40 or more (8000 or more)												11	11
Total									3			27	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/π indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakorn Rajasima Year 1951 Month September Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̲	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												1	1
04 (800 m.)												2	2
05 (1000 m.)													
06-07 (1200-1400 m.)												6	6
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)												4	4
12-15 (2400-3000 m.)												1	1
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)									1	3		10	14
Total									1	3		26	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̲ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month September Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		12	3	1									16
NE		5	2	2	1								10
E		11	5	7	3	-	1						27
SE		1	1										2
S		6	5	3	3	2							19
SW		1	-	4	1	1							7
W		11	11	7	2	1	1						33
NW		1	2										3

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Nakorn Rajasima Year 1951 Month September Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff		0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S											Data are not falling within the specified ranges																	
SW																												
W																												
NW																												
Calm																												
Total																												

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month September

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36					1						
35					6						
34					7						
33	10				6						
32	7				2						
31	3				1						
30	3				3						
29	2	3			2	10					
28	2	3			1	8					
27	1	9			1	5					
26	1	6				5		3			
25	-	6	2	2		2		9	1	1	3
24	-	2	16	10			2	12	9	10	9
23	1	1	9	14			20	5	9	16	11
22			2	3			6	1	9	2	5
21			1	1			2		2	-	2
20										1	
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Songkhla Year 1951 Month September Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ h	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)									1	1		28	30
Total									1	1		28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer i" similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1961 Month September Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)								1				1	2
40 or more (8000 or more)								1		1		26	28
Total								2		1		27	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Songkhla Year 1951 Month September Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ h	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)												29	29
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month September Time of observation 2400 GMT.
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											1	29	30
Total											1	29	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 30 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month September Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		11	11	11	2								35
NE		15	29	25									69
E		7	8	2									17
SE		6	3	1									10
S		44	34	6	6	1	1	1					93
SW		58	59	40	23	5	1						186
W		42	32	15	11	8							108
NW		2	2										4

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Songkhla Year 1951 Month September Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome; the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month September

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34	1				1						
33	3				5						
32	7				8						
31	9				12						
30	6	1			2						
29	3	5			2	7					
28	-	10				9					
27	1	2				11					
26		7	11	3		3		1	1		
25		4	14	16			5	6	2	2	4
24		1	5	10			17	17	18	12	7
23				1			7	4	6	14	14
22							1	2	3	2	4
21											1
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month September Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ h	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										3	5	22	30
Total										3	5	22	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer i" similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month September Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

h / VV	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										3	4	23	30
Total										3	4	23	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month September Time of observation 1800 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V ⊓	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										3		27	30
Total										3		27	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V ⊓ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month September Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ h	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)										8	2	19	29
Total										9	2	19	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month September Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		17	8	-	1								26
NE		4	-	1									5
E		2											2
SE		6											9
S		48	6										54
SW		26	2										28
W		8											8
NW		8	1	1									10

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Chiengmai **Year** 1951 **Month** September **Time of Observation** 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd	ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Chiengmai Year 1951 Month September

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33	1										
32	4										
31	8										
30	7										
29	8										
28	2	9									
27	1	11									
26	-	4		1				2	3		
25	1	4	10	-				5	10	1	
24	1	2	13	21			5	15	8	11	6
23			7	7			19	7	9	11	15
22				1			6	1		7	9
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

พิมพ์ที่
โรงพิมพ์กรมอุทกศาสตร์ ธนบุรี
พ.ศ. ๒๖

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT
ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค
เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,
Director

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ตุลาคม ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 10
October 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

สถิติอุตุนิยมวิทยาประจำเดือนสำหรับการบิน

ปีที่ ๑ ฉบับที่ ๑๐

ตุลาคม ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 10

October 1951

Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met. Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น ตองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month October Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ h	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)										6		24	30
Total										7		24	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month October Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)										2			2
40 or more (8000 or more)												28	28
Total										3		28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month October Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ h	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1		29	30
Total										2		29	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer i" similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Don Muang **Year** 1951 **Month** October **Time of observation** 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										3	1	27	31
Total										3	1	27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month October Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		53	24										77
NE		40	10	-	-	1							51
E		59	22	6	1								88
SE		65	20	4									89
S		35	8	2	2	1							48
SW		49	11	1									61
W		128	57	22	4	-	1						212
NW		60	7	1	1								69

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Don Muang Year 1951 Month October Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	hh	vv	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
			00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
			<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
			00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
			<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																													
NE																													
E																													
SE																													
S														1															1
SW																													
W																													
NW																													
Calm																													
Total														1															1

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month October

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34					2						
33	1				5						
32	4				10						
31	8	2			4						
30	8	5			6	8					
29	6	6	1		2	9					
28	2	5	7		2	10					
27	2	8	8	2		5	1	1			
26		-	7	13		4	8	8	4	3	2
25		4	6	9			9	7	7	16	10
24		1	2	7			8	10	9	4	8
23							5	5	8	5	6
22								3	3	2	3
21								-		1	1
20								2			1
19											
18							10				
17											
16							1				
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate isermined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month October Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ h	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)								1					1
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)									1				1
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)									1				1
40 or more (8000 or more)												28	28
Total								1	2			28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Nakorn Rajasima Year 1951 Month October Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)									2				2
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)									1				1
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)								1	2				3
40 or more (8000 or more)												25	25
Total								1	5			25	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer i" similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii. hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY - Table II

Aerodrome Nakron Rajasima Year 1951 Month October Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		4	1	-	1								6
NE		3	10	2									15
E		9	15	5									29
SE		-	-	1									1
S		5	2	2									9
SW		1	3										4
W		10	7	3									20
NW		3	2										5

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month October Time of Observation 2400-0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),

02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);

05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);

04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile)

08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome : the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Rajasima Year 1951 Month October

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34					3						
33	2				5						
32	8				8						
31	5				4						
30	5				6						
29	5	2			2	5					
28	3	4			2	3					
27	-	7			-	9					
26	1	2	2		-	6		3	3		
25	-	6	5	4	1	5		7	7	3	1
24	1	5	8	8		2	3	6	8	8	8
23	1	5	11	11		1	12	5	5	9	12
22			1	3			10	5	2	6	3
21			3	2			1	1	3	-	1
20			1	1			2	2	3	4	2
19				2			2	-		1	2
18							1	2			2
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate isermined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month October Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̲	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)									2				2
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)									1				1
24-39 (4800-7800 m.)													
40 or more (8000 or more)								1		1		26	28
Total								1	3	1		26	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̲ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month October Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)						1							1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)							1						1
40 or more (8000 or more)									2	1		26	29
Total						1	1		2	1		26	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month October Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)								1	1				2
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)									1			2	3
40 or more (8000 or more)										1		24	25
Total								1	2	1		27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month October Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)							1						1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)									1				1
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)												3	3
40 or more (8000 or more)						1				1		23	25
Total						1	1		1	1		27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month October Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		4	1	3	5	1							14
NE		8	11	4	3	1	1						28
E		2	7	1	3	-	1	1					15
SE		3	3	1									7
S		15	12	11	5								43
SW		36	16	15	9	6	3	-	1				86
W		13	4	16	5	1	4	2	1				46
NW		2											2

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month October Time of Observation 1800 1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	hh	vv	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
			00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
			<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
			00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
			<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N					4																								4
NE					8			1			1																		10
E					4																								4
SE																													-
S					2																								2
SW					1																								1
W				2	2		1																					3	2
NW				-	-		-																					-	-
Calm				-	3		-																					-	3
Total				2	24		1	1			1																	3	26

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet);
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month October

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34	1				2						
33	5				8						
32	4				3						
31	2				7						
30	6				6						
29	4	9			1	8					
28	4	4			3	6					
27	2	10	2		-	12					
26	2	5	8	3	1	4		1			1
25		2	17	19		1	5	8	2	2	3
24		1	3	9			19	12	16	11	8
23			1				7	9	7	15	16
22									4	3	3
21									2		
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate isermined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Chiengmai Year 1951 Month October Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)										1			1
40 or more (8000 or more)											3	27	30
Total										1	3	27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Chiengmai Year 1951 Month October Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)										1		29	30
Total										1		30	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Chiengmai **Year** 1951 **Month** October **Time of observation** 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1	2	28	31
Total										1	2	28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month October Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)			1							7		22	30
Total			1							7		23	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month October Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		15	10	4	1								30
NE		5	5	2	-	-	1						13
E		1	1										2
SE		3	1										4
S		50	7	-	-	-	1						58
SW		22	4	2	4								32
W		14	1										15
NW		8	1										9

Notes a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Chiengmai Year 1951 Month October Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	hh	vv	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
			00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
			<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
			00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
			<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600	<200 m.	800-1400	1600-4600
N																													
NE																													
E																													
SE																													
S																													
SW																													
W																													
NW																													
Calm																													
Total																													

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Chiengmai Year 1951 Month October

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32	3										
31	8										
30	6										
29	6										
28	3	4									
27	3	4							1		
26	-	8							1		
25	1	7	4	1				3	5		
24	1	4	15	9			3	11	11	4	2
23		1	5	13			13	8	5	17	15
22		3	4	3			6	1	4	3	7
21			-	1			5	5	-	4	1
20			-	1			1	-	4	-	2
19			1	-			-	3		-	1
18			2	1			-			2	1
17				1			2			1	1
16				1			1				1
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate is ermined according to the following rule: $\frac{Max + Min}{2}$

พิมพ์ที่
โรงพิมพ์กรมอุทกศาสตร์ ธนบุรี
พ.ศ. ๙๖

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

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พฤศจิกายน ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 11

November 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoen V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month November Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)									1				1
40 or more (8000 or more)										5		24	29
Total									1	5		24	30

Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month November Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										2			2
24-39 (4800-7800 m.)													
40 or more (8000 or more)										2		26	28
Total										4		26	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month November Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1		29	30
Total										1		29	30

Notes : (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Don Muang Year 1951 Month November Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)									1				1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												1	1
40 or more (8000 or more)											1	27	28
Total									1		1	28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month November Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		155	59	19	-	1							234
NE		86	31	-	1	1	1						120
E		48	43	20	3	1							115
SE		7	4	2									13
S		7	2	1	1								11
SW		2											2
W		29	11	4									44
NW		64	34	5									103

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month November Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	hh / vv	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200- 600 m.	800- 1400	1600- 4600	<200 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200. 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the zero km; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Don Muang Year 1951 Month November

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33	1				4						
32	2				7						
31	10				10						
30	7				5	1					
29	4	5			1	6					
28	3	9	3		2	11					
27	2	7	10	4	-	8	1		1	1	
26	-	5	7	5	1	3	2	1	1	5	
25	-	2	7	11		1	9	2	9	5	5
24	-	2	2	7			11	11	11	8	6
23	1		1	3			6	7	5	5	3
22							1	2	1	4	6
21								4	2	2	3
20								3			3
19											4
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate isermined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Nakorn Rajasima Year 1951 Month November Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)										11			11
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)										1			1
24-39 (4800-7800 m.)													
40 or more (8000 or more)												18	18
Total										12		18	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table 1

Aerodrome Nakorn Rajasima Year 1951 Month November Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)			7	1									8
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												22	22
Total			7	1								22	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month November Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		14	4	2									20
NE		8	15	7	1								31
E		12	10	5	1								28
SE		-	-	-	-								-
S		-	-	-	-								-
SW		-	-	-	-								-
W		1	-	-	-								1
NW		-	-	-	-								-

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological stud observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month November Time of Observation 2400-0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200-600 m.	800-1400	1600-4600	<200 600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 800 yards) but less than 1600 metres (1 mile).
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome the remaining observations are those made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Nakron Rajasima Year 1951 Month November

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33					4						
32	4				6						
31	8				8						
30	4				5						
29	6				3						
28	4				1		1				
27	3	6			2		12				
26	1	10			1		7		1		
25		7	4				2	3	-	1	
24		4	7	4			4	5	8	3	
23		2	8	11		8	3	10	12	7	
22		1	3	5		5	1	5	2	6	
21			4	2		6		2	3	3	
20			2	6		4		2	2	4	
19			2	1		4		1	1	3	
18				1		1		2	1	3	
17						2					
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate isermined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month November Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̀	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)		1	1									1	3
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1					1	2
24-39 (4800-7800 m.)					2							2	4
40 or more (8000 or more)					1	1		1		1		17	21
Total		1	1		3	1	1	1		1		21	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̀ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month November Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)							1						1
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)					1								1
24-39 (4800-7800 m.)				1			1					3	5
40 or more (8000 or more)							1	1		1		20	23
Total				1	1		3	1		1		23	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month November Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)							1						1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)							1					2	3
24-39 (4800-7800 m.)							1					1	2
40 or more (8000 or more)							1		2			21	24
Total							4		2			24	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Songkhla Year 1951 Month November Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)				1			1					1	3
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)					1		1						2
24-39 (4800-7800 m.)												5	5
40 or more (8000 or more)				1	1	3	1					14	20
Total				2	2	3	3					20	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month November Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		37	32	28	15	8							120
NE		52	79	22	8	4	3						168
E		16	33	37	24	7	2						119
SE		4	-	1									5
S		16	11	5	2								34
SW		25	15	3	1	1							45
W		19	17	11	1	1							49
NW		11	1	1	1								14

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month November Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	hh / vv	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
		00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
		00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S											Data are not falling within the specified ranges																	
SW																												
W																												
NW																												
Calm																												
Total																												

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows.

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Songkhla Year 1951 Month November

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34					1						
33											
32	1				2						
31	1				3						
30	7				13						
29	8				4	1					
28	5	13	1		5	3					
27	2	7	6		2	14		1			
26	2	1	9	2		11		2	3	2	1
25	4	7	9	20		1		10	8	12	14
24		2	5	8			3	15	13	16	12
23							21	2	6		3
22							6				
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperature is determined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month November Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1	1	28	30
Total										1	1	28	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month November Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												30	30
Total												39	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month November Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												30	30
Total												30	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table I

Aerodrome Chiengmai Year 1951 Month November Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)												2	2
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)											1	27	28
Total											1	29	30

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month November Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		23	5										28
NE		5											5
E		3											3
SE		7											7
S		105	4	2									111
SW		44	2	2									48
W		16	1										17
NW		7	1										8

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Chiengmai Year 1951 Month November Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4 8ths of the sky lie within specified ranges.

dd \ ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600
N																											
NE																											
E																											
SE																											
S							Data are not falling within the specified ranges																				
SW																											
W																											
NW																											
Calm																											
Total																											

Notes : (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4 8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05 09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows :

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome; the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Chiengmai Year 1951 Month November

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31	6										
30	9										
29	11										
28	8										
27	-										
26	-	1									
25	-	9									
24	-	5						1	1		
23	-	18	4	1				7	9		
22	1	2	7	4			2	7	8		1
21			6	7			6	6	8	6	3
20			6	6			6	5	2	6	4
19			6	4			4	0	1	5	9
18			1	7			6	1	-	7	2
17				1			5		1	4	6
16							1			2	5
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes: a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate is ermined according to the following rule: $\frac{Max + Min}{2}$

พิมพ์ที่
โรงพิมพ์กรมอุทกศาสตร์ ธนบุรี
มิ.ย. ๕๖

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

เจ้ากรม

Capt. Charoon V. Bunnag R.T.N.,

Director

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ธันวาคม ๒๔๙๔

MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 12

December 1951

กรมอุตุนิยมวิทยา แห่งราชนาวี

METEOROLOGICAL DEPARTMENT

ROYAL THAI NAVY

นาวาเอก จรูญ วิชยาภัย บุนนาค

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MONTHLY METEOROLOGICAL SUMMARY FOR AVIATION

Vol. 1 Part 12

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Aeronautical Statistics

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คำนำ

สมุดสถิติอุตุนิยมวิทยาสำหรับการบินนี้ ได้รวบรวมขึ้นตามข้อตกลงที่ประชุมร่วมระหว่าง CMAé กับ Met. Div. ICAO เพื่อให้เป็นประโยชน์สำหรับการบินสากลโดยให้มีกำหนดออกเป็นรายเดือนนั้น กองอากาศประจำถิ่น กรมอุตุนิยมวิทยา ได้จัดหนังสือประเภทนี้ขึ้น เริ่มตั้งแต่เดือน มกราคม ๒๔๙๔ เป็นต้นไป.

แต่แรกเริ่มทางการได้เคยตีพิมพ์สมุดทำนองนี้ออกเป็นรายเดือนอยู่แล้ว เมื่อได้มีการเปลี่ยนแปลงแก้ไขกันใหม่ตามข้อตกลงที่ประชุมครั้งนี้ รูปร่างหนังสือจึงได้เปลี่ยนไปด้วย ซึ่งก็เป็นการสะดวกและง่ายต่อการพิจารณาศึกษา.

อนึ่ง ตาราง ๕ กล่าวถึงอุณหภูมิและจุดน้ำค้างของระดับความกดอากาศที่ 1000 mb. ถึง 40 mb. ยังมิได้จัดทำ ทั้งนี้เนื่องจากเครื่องมือ Radiosonde ขาดอุปกรณ์ไปบางอย่าง เมื่อได้อุปกรณ์พร้อมแล้วสมุดสถิติอุตุนิยมวิทยาการบินก็จะมีตารางครบโดยสมบูรณ์.

กรมอุตุนิยมวิทยาแห่งราชนาวี

กรุงเทพ ฯ วันที่ ๑๓ สิงหาคม ๒๔๙๔

PREFACE

This monthly summary of observation of meteorological elements for aeronautics is being prepared in accordance with the resolutions of the joint meeting of CMAé and Met. Div. ICAO since January 1951.

Prior to the present issue, this monthly summary also existed in other tabular form; but the present arrangement makes the tables clear and easy to use.

Table V dealing with free air observation is not available at present due to lack of necessary instruments and equipments.

Meteorological Department,
Royal Thai Navy,
Bangkok, 13th August 1951.
Charoon V. Bunnag.
Captain. R.T.N.
DIRECTOR.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Don Muang Year 1951 Month December Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										1	2	28	31
Total										1	2	28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month December Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̲	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̲ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Don Muang Year 1951 Month December Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Don Muang Year 1951 Month December Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												3	3
40 or more (8000 or more)												28	28
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Don Muang Year 1951 Month December Time of observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		128	69	58	6								261
NE		78	27	12									117
E		60	16	6									82
SE		4	2	1	2								9
S		2											2
SW		2	1										3
W		47	10	2									59
NW		117	11	3									131

Notes: a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Don Muang Year 1951 Month December Time of Observation hourly GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff		0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270	<30-30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
SW																												
W																												
NW																												
Calm																												
Total																												

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Don Muang Year 1951 Month December

Height of thermometer above ground 6.00 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35					2						
34					6						
33	4				3						
32	6				1						
31	1				2						
30	1	1			6	1					
29	4	3			4	5					
28	8	4			3	4					
27	1	3			4	2					
26	6	1	3			2			1		
25		4	7	3		5	1		1		
24		7	8	4		5	6		2		3
23		3	4	6		5	4	4	6		3
22		5	2	3		2	5	6	5		6
21			6	3			-	4	2		2
20			3	4			4	3	4		4
19			3	5			4	2	1		-
18				2			3	2	4		4
17				-			3	5	2		4
16				1			1	3	3		1
15								1			2
14								-			-
13								-			1
12								-			1
11								1			
10											
9											
8											
7											
6											

Notes. a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate isermined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Nakron Rajasima Year 1951 Month December Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										3		28	31
Total										3		28	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Nakron Rajasima Year 1951 Month December Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 the of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)										5		26	31
Total										5		26	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table II

Aerodrome Nakorn Rajasima Year 1951 Month December Time of observation 1800,2100,2400,0300,0600,0900,1200,1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		8	8	1									12
NE		13	14	7	4								38
E		14	17	13	4								49
SE		2											2
S													
SW													
W		1											1
NW													

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table III

Aerodrome Nakorn Rajasima Year 1951 Month December Time of Observation 2400,0600 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
d	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270
vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY : Table IV

Aerodrome Nakorn Kajasima Year 1951 Month December

Height of thermometer above ground 1.50 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36					1						
35					-						
34	1				3						
33	1				3						
32	3				2						
31	3				3						
30	3				3						
29	2				6						
28	5	1			3	1					
27	6	2			2	2					
26	4	3			2	3					
25	1	6			2	5		1			
24	1	2			1	4		-	1		
23	1	4	2			1		2	2		
22		2	4	1		4		2	4		
21		5	6	3		9		5	4	3	1
20		5	3	4		-	4	4	2	4	3
19		1	4	3		2	7	3	6	4	2
18			2	5			1	2	3	5	7
17			1	1			6	-	1	2	3
16			4	4			2	3	3	1	-
15			4	1			4	5	2	4	4
14			1	4			2	2	3	3	2
13				3			4	1		5	4
12				2			1	1			4
11											1
10											
9											
8											
7											
6											

Notes. a) The temperature observation upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate is ermined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Songkhla Year 1951 Month December Time of observation 0600 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V/)(	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)			3	1									4
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)								1				2	3
24-39 (4800-7800 m.)				2			1					1	4
40 or more (8000 or more)			1			1				1		17	20
Total			4	3		1	1	1		1		20	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month December Time of observation 1200 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̄	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)												1	1
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)				1									1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)												1	1
24-39 (4800-7800 m.)			1	1								1	3
40 or more (8000 or more)				1								23	24
Total			1	3								27	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̄ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Songkhla Year 1951 Month December Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)((	Total
00 (<200 m.)													
01 (200 m.)												1	1
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)												1	1
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)				1		1						2	4
24-39 (4800-7800 m.)				1	1							1	3
40 or more (8000 or more)					1	1						20	22
Total				2	2	2						25	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V)((indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table I

Aerodrome Songkhla Year 1951 Month December Time of observation 2400 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)		1											1
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)				1								1	2
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)												1	1
16-23 (3200-4600 m.)				1								1	2
24-39 (4800-7800 m.)			1				1					4	6
40 or more (8000 or more)						3						16	19
Total		1	1	2		3	1					23	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Songkhla Year 1951 Month December Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		6	10	12	20	6	6	1	2				82
NE		8	17	29	33	11	4	2	2				106
E		7	7	26	70	82	121	58	12	1			384
SE		2	6	10	8	8	11	3	1				49
S		2	2	1									5
SW		2	2	1									5
W		1	4										5
NW		-	2										2

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome

METEOROLOGICAL SUMMARY : Table III

Aerodrome Songkhla Year 1951 Month December Time of Observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd \ ff	hh	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL	
		00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04
		<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120	150- 270	<30- 30 m.	60- 120
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07
		<200- 600 m.	800- 1400	1600- 4600	<200 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400	1600- 4600	<200- 600 m.	800- 1400
N																											
NE																											
E																											
SE																											
S																											
SW																											
W																											
NW																											
Calm																											
Total																											

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Songkhla Year 1951 Month December

Height of thermometer above ground 1.20 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31											
30	1				5						
29	9				16						
28	10	4			7	6					
27	6	18	10	10	2	13	2				
26	2	5	11	8	1	9	7		1		
25	3	4	8	6		3	5	11	6	5	6
24			2	6			12	13	15	15	15
23				1			5	4	5	6	6
22								2	3	4	1
21								1	1	1	2
20											1
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6											

Notes a) The temperature observations upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate isermined according to the following rule: $\frac{Max + Min}{2}$

METEOROLOGICAL SUMMARY: Table I

Aerodrome Chiengmai Year 1951 Month December Time of observation 0600 GMT
Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)												1	1
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												30	30
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Chiengmai Year 1951 Month December Time of observation 1200 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V) (	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V) (indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Chiengmai Year 1951 Month December Time of observation 1800 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100 ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V̲	Total
00 (<200 m.)													
01 (200 m.)													
02 (400 m.)													
03 (600 m.)													
04 (800 m.)													
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)													
40 or more (8000 or more)												31	31
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V̲ indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii) hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observations upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table 1

Aerodrome Chiengmai Year 1951 Month December Time of observation 2400 GMT

Number of simultaneous occurrences of specified visibility ranges and specified ranges of the height of the base of the lowest cloud layer covering more than 4/8 ths of the sky.

VV \ hh	00 <100ft.	01 100	02 200	03 300	04 400	05 500	06-07 600-700	08-09 800-900	10-14 1000-1400	15-29 1500-2900	30-79 3000-7900	V)(	Total
00 (<200 m.)													
01 (200 m.)												1	1
02 (400 m.)												1	1
03 (600 m.)													
04 (800 m.)												2	2
05 (1000 m.)													
06-07 (1200-1400 m.)													
08-09 (1600-1800 m.)													
10-11 (2000-2200 m.)													
12-15 (2400-3000 m.)													
16-23 (3200-4600 m.)													
24-39 (4800-7800 m.)												3	3
40 or more (8000 or more)												24	24
Total												31	31

Notes: (a) In the above table, the ranges of visibility are expressed by the figures of the 1949 International Meteorological Code Specification for VV; the height of the base of the cloud layer is similarly expressed by the figures of the 1949 International Meteorological Code Specification for hh.

(b) The figures in the column marked V/)(indicate the number of occasions on which the specified visibility was observed in conjunction with

(i) no cloud

(ii hh = 80 or more

(iii) cloud amount 4/8 ths or less

(c) The observation upon which the above table is based are those made at the meteorological observation site at the aerodrome.

METEOROLOGICAL SUMMARY : Table II

Aerodrome Chiengmai Year 1951 Month December Time of observation 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges.

Wind Direction	Wind Speed in Knots												
	0	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	56-63	>63	Total
N		70	25	19	16								131
NE		7											7
E		5											5
SE		9	2	1									12
S		47	8										55
SW		30	7										37
W		18											18
NW		12	7	1									20

Notes : a) Wind direction is with reference to true North.

b) The observations upon which the above table is based are those made at the meteorological wind observation site at the aerodrome.

METEOROLOGICAL SUMMARY: Table III

Aerodrome Chiengmai **Year** 1951 **Month** December **Time of Observation** 1800-1500 GMT

Number of occurrences of concurrent wind speed and direction within specified ranges when the horizontal visibility and/or the height of the base of the lowest cloud layer covering more than 4/8ths of the sky lie within specified ranges.

dd	ff	0-6 (0-11 km.)			7-10 (12-19 km.)			11-16 (20-28 km.)			17-21 (29-38 km.)			22-27 (39-49 km.)			28-33 (50-61 km.)			34-40 (62-74 km.)			>40 (>75 km.)			TOTAL		
	hh	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09	00-01	02-04	05-09
		<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270	<30 m.	60-120	150-270
	vv	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23	00-03	04-07	08-23
		<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600	<200-600 m.	800-1400	1600-4600
N																												
NE																												
E																												
SE																												
S																												
W																												
W																												
W																												
lm																												
tal																												

Data are not falling within the specified ranges

Notes: (a) Wind direction (dd) is with reference to true North.

(b) Ranges of wind speed (ff) are given in knots; and in km. within brackets.

(c) The ranges of height of the base of the lowest cloud layer covering more than 4/8ths of the sky (hh) are as follows:

00-01 = height equal to or greater than zero but less than 60 metres (200 feet),
02-04 = " " " " 60 metres (200 feet) but less than 150 metres (500 feet);
05-09 = " " " " 150 metres (500 feet) " " " 300 metres (1000 feet).

(d) The ranges of horizontal visibility (vv) are as follows:

00-03 = horizontal visibility equal to or greater than zero but less than 800 metres (approximately 300 yards);
04-07 = " " " " " 800 metres (approximately 300 yards) but less than 1600 metres (1 mile);
08-23 = " " " " " 1600 metres (1 mile) but less than 4800 metres (3 mile).

(e) The wind observations upon which the above table is based are these made at the meteorological wind observation site at the aerodrome the remaining observations are these made at the meteorological observation site for those elements.

METEOROLOGICAL SUMMARY ; Table IV

Aerodrome Chiengmai Year 1951 Month December

Height of thermometer above ground 1.22 Metres

Number of occurrences of specified values of surface dry bulb and dew point temperatures at 0600, 1200, 1800 and 2400 GMT and of daily maximum, minimum and average dry bulb temperatures.

Temperature C°	Surface dry bulb				Daily Maximum dry bulb	Daily Average dry bulb	Daily Minimum dry bulb	Surface dew point			
	0600 GMT	1200 GMT	1800 GMT	2400 GMT				0600 GMT	1200 GMT	1800 GMT	2400 GMT
43											
42											
41											
40											
39											
38											
37											
36											
35											
34											
33											
32											
31											
30											
29	4										
28	7										
27	7										
26	1										
25	5	1									
24	3	3									
23	2	1	3								
22	2	8	2	2					1	3	1
21		10	1	3			4	2	3	-	-
20		3	2	-			1	4	6	1	2
19		4	3	2			1	9	7	2	-
18		1	8	3			2	4	5	3	4
17			6	4			3	2	5	11	3
16			2	9			5	1	3	4	9
15			2	4			9	5	1	3	5
14			2	2			2	3	-	2	5
13				2			2	1	-	2	2
12							2				
11											
10											
9											
8											
7											
6											

Note: a) The temperature observation upon which the above table is based are those made at the meteorological temperature observation site at the aerodrome.

b) The daily average dry bulb temperate isermined according to the following rule: $\frac{Max + Min}{2}$

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