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THE UNITED MEXICAN STATES

THE STUDY ON AIR POLLUTION CONTROL PLAN IN THE FEDERAL DISTRICT

FINAL REPORT

APPENDICES

October 1988

JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団 18623

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PART 1 METEOROLOGICAL OBSERVATION

1.1 Items and Methods of Observation

(1) Surface Meteorology

Surface meteorological observation was made as follows:

Items: Horizontal wind direction and speed, and standard deviations of wind direction and wind speed

Period: Four times from September, 1987 to May, 1988. Period as shown in Table 1.1

Location: Centro No. 5 to the north of the center of Mexico City, as shown in Figure 1.1

Method: As shown in Table 1.2

Table 1.1 Surface Meteorological Observation Period

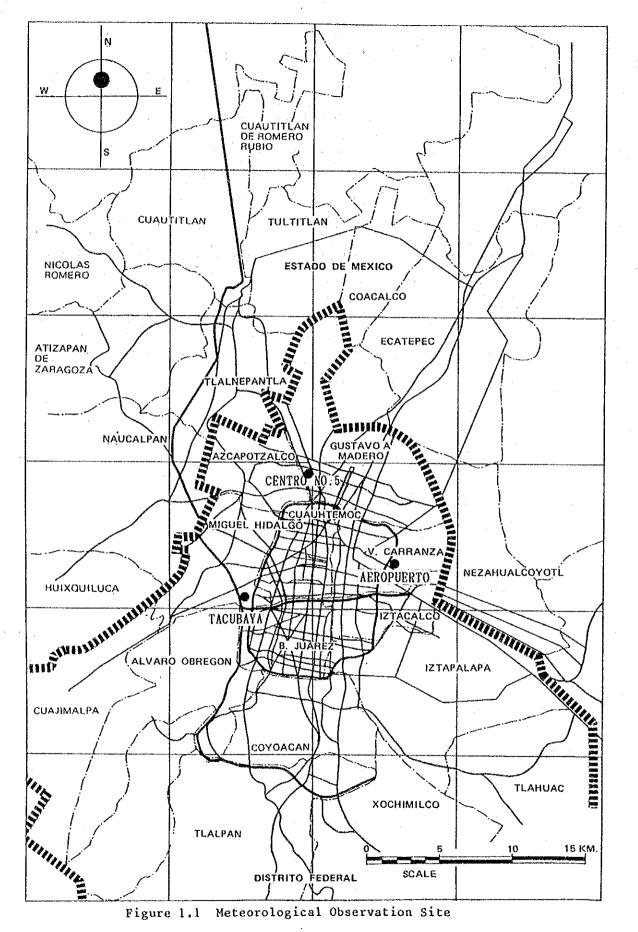
	Period
Summer	12 days from Sept. 8 - 19, 1987
Autumn	15 days from Nov. 19 - Dec. 3, 1987
Winder	8 days from Feb. 17 - 24, 1988
Spring	8 days from May 20 - 27, 1988

Since measurement was made by a Mexican counterpart for the period other than above, the data obtained were used for analysis of wind direction and speed.

Table 1.2 Items and Method of Surface Meteorological Observation

Item	Equipment	Altitude	Reading method
Wind Direction and speed	SA200 type	15 m above ground	Average for 10 min before every hour
Turbulence	2-component ultra- sonic wind vane and anemometer	(2265 m above sea level)	l-hour average of data obtained every 10 min

Note: Turbulence means standard deviation of horizontal wind direction and speed.





P-2

(2) Upper Meteorology

Upper meteorological observation was made as follows:

Item: Upper wind direction and speed, and air temperature

- Period: Four times from Sept., 1987 to May, 1988 Period as shown in Table 1.3
- Location: Same location as for the surface meteorological observation
- Method: As shown in table 1.4

Table 1.3 Upper Meteorological Observation Period

	Period
Summer	5 days and nights from Sept. 10 to 19, 1987
Autumn	14 days and nights from Nov. 19 to Dec. 3, 1987
Winter	7 days and nights from Feb. 17 to 24, 1988
Spring	7 days and nights from May 20 to 27, 1988

Table 1.4 Items and Method of Upper Meteorological Observation

Item	Equipment	Time	Altitude	Remarks
Wind direction and speed air temperature	Captive Sonde Type: CBS-T-14 Balloon: 22 m ³ Gas: Helium	Eight times a day, at 3:00 6:00, 9:00 12:00, 15:00, 18:00, 21:00, and 24:00	Up to 500 m above ground, in 50 m steps	was made at 7:30 and 10:30 for two to three
Air temperature	Low sonde Type: JWA-76T Ballon: 200 gr rubber balloon Gas: Helium Rise speed: 200 m m/min	One a day at 13:00 Other stormy weather	Up to 1500 m above ground, in 50 m steps	days when the remark- able ground inversion layer appeared.

Apart from upper meteorological observation, surface air temperature and humidity measurements were made with an Assmann ventilated psychrometer; surface pressure measurement with an Aneroid barometer, and weather, cloud amount and form visually.

(3) Collection of local data

Collection of data on surface and upper meteorologies at Tacubaya station and Aeropuerto was made as follows:

1 Surface meteorology

Table 1.5 List of Surface Meteorological Data Collection

Item	Point	Period
Wind direction and speed Air temperature	TACUBAYA station	Jan., 1986 - Dec., 1987
and humidity cloud amount and form	AEROPUERTO	Jan. to Dec., 1986
	TACUBAYA station	Jan., 1986 to Feb., 1988
Insolation	AEROPUERTO	Jan. to Dec., 1987

2 Upper meteorology

Table 1.6 List of Upper Meteorological Data

Item	Point	Period
Wind direction and speed	AEROPUERTO	Jan., 1986 to Dec., 1987
Air temperature	AEROPUERTO	Jan., 1986 to Dec., 1987

Table 1.7 List of 10-year Meteorological Statistical Value Collection

tem	Point	Period
Wind direction and speed Max. and min. air temperature Mean humidity Amount of precipitation	Tacubaya station	1976 - 1985
Sunshine duration and cloud amount Mean wind speed in the most frequent wind direction	AEROPUERTO	1976 - 1986

Note: • Collected data of each item include averages by year and month.

1.2 Surface Meteorology

1.2.1 Surface Meteorology Other Than Wind

Results of the surface meteorological observation other than wind are shown in the following Tables.

	ype								
1387	Cloud amount/type	IU: IUAC	8:8Ac	3:3Cu	6;6Cu	5:2Cu,3Sc	9:8NS,XCu	0;0Cu	7:7Ac
September 13, 1987	Weather	Ø	e	Θ	θ	θ	0	0	Ç
Sep	Humidity (X)	73	75	51	30	31	55	57	63
	Vet-bulb temperature (°C)	14.0	13.0	15.0	15.0	14.0	15.0	13.5	13.2
	Dry-bulb temperature (°C)	17.2	15.9	21:9	27.2	25.4	21.1	19.0	16.9
	Atomspheric pressure (mb)	784.8	784.7	785.9	785.3	782.8	783-0	785.6	786.5
	Time	03	90	10	12	15	18	21	24
oint: CENTRO No-5 1987		r							
point: CENTRO No. . 1987	Cloud amount/type					7;7Cu	IC:4Cu.ICb.ICCs	5;5Åc,XCb	8:8Ac
Data servation point: CENTRO No-5 stember 12, 1987	Weather Cloud amount/type					Φ 7;7Cu	© 10:4Cu.1Cb.10Cs	Φ 5;54c,XCb	© 8:8Ac
	Humidity Veather Cloud amount/type								{
	Veather					ө 	0	ө —	O
	Humidity Veather (\$)					31 D	37 🗇	55 Ø	D 202

782.0 781.1 784.4 785.3

10 11

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Surface Meteorological Observation Data Observation point: CENTRO No-5 Cantember 14. 1387

1987	Cloud amount/type	3:3Ac	2:2AC	3;3Cu	3;3Cu	5;5Cu	6;2Cu,4Ns	8;8AC	9:9Ac	
September 14, 1987	Weather	θ	Θ	Θ	θ	θ	Θ	θ	٢	
Sep	Humidity (%)	73	77	64	36	33	53	68	20	
	Vet-bulb temperature (*C)	13.1	12.2	13.2	14.3	14.8	15.0	15.2	13.6	
	Dry-bulb temperature (*C)	16.2	14.7	17.6	24.4	26.0	21.6	19-2	17.2	
	Atomspheric pressure (mb)	785.7	786.1	786.8	784.8	782.6	782.9	784.5	785.7	
	Tine	80 03	90	6 0	12	13	18	21	24	

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1387	Cloud amount/type	7;7Ac	8;24c,8Cs	6:6Sc	3:3Cu	5;5Cu	101:10C#	4:4Cu	101:10Sc	
September 17, 1987	Weather	θ	Θ	Θ	Θ	Θ	٩	Θ	න	
Sep	Humidity (%)	63	83	12	47	31	38	62	66	
	Vet-bulb temperature (°C)	13-5	13.3	13.8	14.8	13.8	14.9	15.0	14.6	
	Dry-bulb temperature (°C)	17.2	15.2	17.2	22.6	25.0	24.8	19.9	18.9	
	A tomspheric pressure (πb)	782.1	783.3	784.8	783.5	781.1	780.5	782.9	783.5	
	Time	03	90	6 O	12	10	18	21	24	

Time Atomspheric pressure (mb)

90 60

8 0 3

	and the second s		A 144 Aug 144							
1381	Cloud amount/type	1;1Ac	10;4Cu,2Sc,1JAc	8;8Cu	stscu					
September 19, 1987	Heather	0	0	θ	θ					
Sept	Humidity (%)	75	76	72	46					
	Vet-bulb temperature (*C)	13.4	13.4	14.0	14.6					
	Dry-bulb temperature (*C)	16.3	16.2	17.3	22.4					
	Atomspheric pressure (mb)	783.6	783.7	785.2	783.4		-			
	Tine	8 0 3	90	60 0	12	12	18	51	24	
8, 1987	Cloud amount/type	10; 10Sc	9; 95c	10;4Cu.3Sc,XASNS	s;5Cu	3;3Cu	i0:4Cb.XSc	8;9Ac	107;10'Ac	
September 18,	Veather	0	0	٩	θ	θ	0	0	6	
Sept	Humidity (%)	76	23	71	51	30	52	62	99	
	Vet-bulb temperature (°C)	14-6	14.0	14.5	15.0	14.4	14.8	14.9	14.4	
	40									

21.9 26.2

> 1.0 18

17.5

782.7 783.0

03

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90 60 2

Dry-bulb temperature (°C)

Time Atomspheric pressure (mb)

17.2

18.0

785.0 783.4 780.9 780.8

21.6

19.8 18.6

783.3

51 54

784.1

Surface Meteorological Observation Data Observation point: CENTRO No-5 September 18, 1987

Surface Meteorological Observation Data Observation point: CENTRO No-5

Unry-Build (C) West-Build (C) Humidity (C) Westher (C) 12.0 9.0 71 © 11.7 8.6 59 © 11.7 8.6 59 © 11.1 8.4 73 © 11.1 8.4 73 © 11.1 8.4 73 © 11.1 8.4 73 © 11.1 8.4 73 © 11.1 8.4 73 © 10.2 8.2 74 © 10.1 8.4 73 © 11.1 8.4 73 © 11.1 8.4 73 © 11.7 8.5 65 ° 11.7 8.6 65 ° 11.7 8.6 65 ° 11.1 11.4 44 ° 19.4 11.8 41 ° 19.4 11.8 41 <	November 19, 1987				1	1							
12.0 9.0 71 \odot 11.7 8.6 \odot \odot \odot 11.7 8.6 \odot \odot \odot \odot 11.7 8.6 \odot \odot \odot \odot \odot 11.7 8.6 \odot \odot \odot \odot \odot \odot 11.1 8.4 73 \odot \odot \odot \odot \odot \odot 10.7 8.2 74 \circ \circ 74 \odot	Wet-bulb temperature Humidity Weather Cloud amount/type (°C) (2)	Veather		Cloud amount/	type		e Atmospheric pressure (mb)	Dry-bulb temperature (°C)	Wet-bulb temperature (*C)	Humidity (2)	Weather	Cloud amount/type	
11.7 8.6 69 0 11.8 8.6 59 0 11.1 8.4 73 0 11.1 8.4 73 0 10.7 8.3 74 0 10.7 8.2 74 0 10.7 8.2 74 0 11.7 8.6 69 0 11.7 8.6 69 0 11.7 8.6 69 0 11.7 8.6 69 0 11.7 8.6 69 0 11.7 8.6 69 0 11.7 8.6 69 0 13.0 9.6 69 0 13.0 11.4 11.8 44 0 19.9 11.8 11.8 41 0 11.8 11.8 11.8 41 0 19.6 11.8 11.8 11.9 0							1 789.2	12.0	9.0	12	0	1013Cu, 10Ac	
11.6 8.6 8.3 74 6 11.1 8.4 73 6 10.1 8.3 74 0 10.2 8.2 74 0 10.7 8.2 74 0 10.7 8.2 74 0 10.7 8.2 74 0 11.7 8.6 6.0 0 11.7 8.6 6.0 0 13.0 9.4 66 0 14.0 9.4 66 0 18.9 11.4 9.4 0 18.9 11.4 11.8 44 0 19.4 11.8 41 0 0 19.9 11.4 11.8 41 0 19.9 11.8 41 0 0 19.9 11.8 41 0 0 19.9 11.8 11.8 41 0 19.9 11.9 11.8 11.9			*** **		[2 788.7	11.7	8.6	69	θ	7;3Cu,5Ac	
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12.7 9.5 69 0		· · · ·				5	·	14.0	9.8	62	θ	3;3Ac	
						23		12.7	. 9.5		0	1;1Ac	·
11.8 9.2 rt U	9.0 71 © 9;2Cu,7Ac	0	9;2Cu,7Ac	9;2Cu,7Ac		24	787.4	11.8	3 2	54	θ	3;3Ac	

Surface Meteorological Observation Data

Dry-bulb temperature (•C)

Time Atmospheric pressure (mab)

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AP-8

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1.				Nove	November 21.	1987					Nov	ember 22,	November 22, 1987
T ae	Atmospheric pressure (mb)	Dry-bulb temperature (C)	Wet-buib temperature (*C)	Humidity (%)	Weather	Cloud amount/type	Tine	Atmospheric pressure (mb)	Dry-bulb temperature (°C)	Vet-bulb temperature (*C)	Humidity (%)	Weather	Cloud amount/type
	787.1	10.8	5 *8.	75	0	:0	ľ	783.6	13.4	9.6	65	Θ	3;2Sc,1Cu
N	786.9	9.7	6.7	81	0	0;	8	783.4	12.8	9.3	29	θ	6;65c,XCu
6	786.6	9.5	7.8	82	0	0;	3	783.3	13.1	8.5	66	Θ	3;2Sc.1Cu
4	786.4	8-0	3.5	85	0	;0	4	783.7	11.7	8.8	71	0	1;1Cu
cu	786.6	8*8	- 7.4	83	0	:0	വ	783.7	11.6	8.6	02	Θ	2:2Cu
G	786.6	9-1	6.8	16	0	o;ocu	ອ	784.2	11.4	8.7	23	Θ	2;2Cu
2	187.1	7.8	5.9	30	0	0; ccu	2	7.44.7	11.1	8.4	13	θ	5;2Cu,3Ac,3Ci
ω	787.1	8.8	6.3	62	0	:0	ω	785.2	13.5	9.5	63	θ	5;2Ac;3Cs
6	787.3	11.0	8.3	73	θ	3;3Cs	თ	785.4	14.8	10.4	61	0	1;1Cs
0	787.2	13.6	4 .9	62	θ	2;2Cs	10	785.4	17.0	11.0	52	0	1:0°Cu,1Cs
***	786.5	15.4	10.8	60	0	o;ocu	11	784.8	19.4	12.0	45	θ	2;1Cu,1Cs
2	785.2	19.4	11.8	44	0	or; o'cu	12	783.7	20.6	11.7	38	Θ	4;1Cu,4Cs
3	784.0	21.5	12.2	37	0	1;1Cu, 0'Ac	13	782.5	21.3	11.0	31	θ	5;2Cu,3Ci
4	782.5	22.5	11.5	29	Θ	3;1Cu.2Ac	14	781.3	23.4	12.8	32	θ	3;3Cu
ιΩ	782.0	22.3	1.11	28	Θ	5;3Cu,2Ac	15	780.8	22.9	11.7	23	Ð	2;2Cu
9	782.0	20.9	10.8	31	0	9;8Sc,XAc	1 G	780.5	23.0	11.4	27	θ	2;2Cu
7	782.5	18.4	11.0	44	0	1078Sc, XAc	17	780.5	22:5	10.9	26	Θ	2;2Cu
8	782.2	18.4	10.8	43	0	10;10Sc	18	780.8	20.6	10.8	33	Θ	2;2Cu
6	782.7	17.6	11.2	20	Ó	10; 10Sc	19	781.2	19.8	10.3	33	θ	4;4Sc
0	783.9	17.4	10.9	48	θ	8;6Sc.XAc	20	782.4	19.4	10.3	35	θ	6;6Sc
	784.1	16.4	10.3	22	θ	8;4Sc,XAc	21	783.1	. 17.6	10.6	42	0	i;1Sc
2	784.3	16.0	10.5	. 54	0	101; 10'Sc	5	783.3	16.2	2.6	47	0	1;1Sc
m m	784.3	15.3	10.3	57	Θ	6;6Sc	23	783.4	14.7	9.8	57	0	0 : 0 Sc
24	702 0			-									

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Surface Meteorological Observation Data Observation point: CENTRO No-5 November-24, 1987

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1987	Cloud zmount/type	;;	0;	0;	:0	0;	:0	0'; 0'Sc	:0	;0	0;	5 0	7; 0 [°] Cu. 7Cs	5; 0'Cu, 5Cs	7;2Cu,7Cs	5;5Cu,XCs	8;8Cu.XCs	3;3Sc	10:8Sc,XAs	8;9Sc	8;8Sc	9;9Sc	8;8Sc	3;3Sc	2;2Sc
November 24.	Weather	0	ò	0	0	0	0	0	0	0	0	0	θ	Θ	θ	θ	Θ	0	0	0	θ	0	Θ	θ	θ
NON	Humidity (\$)	55	19	66	64	66	74	69	56	52	45	49	28	23	24	22	24	25	35	37	38	40	41	34	35 -
	Wet-bulb temperature (°C)	8.2	8.0	8.0	8.1	7.1	6.9	6.8	7.5	8-8	10.2	10.8	10.1	9.5	10.5 -	10.0	10.2	10.2	10.8	10.6	10.6	10.0	9.6	8.0	7.4
	Dry-bulb temperature ("C)	-13.1	12.1	11.5	11.8	10.5	9.3	9.8	12.2	14.0	17.2	19.2	20.8	21.3	22.4	22.2	21.9	21.6	20.1	19.4	19.0	17.8	1.71	16.5	15.4
	Atmospheric pressure (mb)	784.2	784.1	784.1	784.2	784.3	784.5	785.0	785.8	786.0	786.0	785.3	784.1	783.0	181.9	781.4	781.0	781.4	781.6	782.1	783.0	783-8	783.9	784.1	784.2
	e E E	1	2	ю	7	S	9	2	8	თ	10	11	12	13	14	15	16	1 2	18	19	20	21	22	23	24

Cloud amount/type	0; 0 Sc	1; ISc	0;	:0	01	0;	2;2As	1:1AS	U: UAS	:0	0;	: 0 Cu	ơ;ơcu	o; cu	1;1Cu	2;2Cu	3;3Cu	6; 6Cu	5;5Sc	5;5Sc	2:2Sc	4;4Sc	ot; orse	v.
ity Veather C	0	0	0	0	0	0	θ	0	0	0	0	0	0	0	0	Θ	Θ	Ð	Φ	е •	<u>.</u> Ө	Ψ Ψ	0 0	(
Humidity (X)	53	63	62 -	56	64	83	64	23	23	46	39	31	27	28	24	33	24	31	40	43	39	44	46	i
Wet-bulb temperature (°C)	3.8	8.1	7.3	6.7	5.9	6.0	5.8	5.9.3	9.4	10.4	11.4	10.8	11.4	12.0	1.1	10.8	10.6	11.0	10.6	10.6	10.0	6. G	9.3	4
Dry-bulb temperature (°C)	13.4	12.0	11.2	11.2	9.3	0.6	9.2	11.8	14.9	17.2	20.0	21.0	22.8	23-6	23.2	23.2	22.6	21.2	18.7	18.0	18.1	17.0	15.9	
Atmospheric pressure (mb)	783.3	783.3	782.9	783.2	783.3	783.5	784.2	784.8	785.2	785.2	784.9	784.3	783.2	782.1	781.5	781.2	781.5	782.0	783.3	783.6	783.8	784.6	784.4	C 101
1 ime	I	3	S	4	ດເ	ဖ	2	ω	ິ	10	11	5	13	14	រខ	16	17	18	19	2.0	21	22	23	с С

Surface Meteorological Observation Observation point: CENTRO No-5 Movember 26, 1987

Weather | Cloud amount/type

Humidity (2)

Wet-bulb temperature (*C)

Dry-buib temperature (°C)

0:0'Sc

0 0 0 0 0 0 0 0 0 0 0 0 Q 0 θ 0 6 0 0 Θ Θ 0 Θ 0

56 28 54 80

7.3

12.0

7.4

12.1

2.4 1.1

12.4 IF.2 10.4 9.5 10.2 12.0 14-2 16.7

6 8 5 6 ö 1; 0 Cu, 1Ac

65

6.9 6.6 6.8 7.6 8.8

69 65 28 23 44 37 34 8 3 33 80

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> 10.9 11.5 11.5 12.2 12.0 11.6 12.0 12.7 12.4 12.0 12.8 11.5 11.4 11.5

19.6

21.2 21.8

9.6

9;75c,XCu 10; 10Ns 101 10'Sc

7;7Ac 8;8Ac 10: 10'Ac

9;9Ac

23 33 88

2

18.2 17.4 17.2 16.6

18.1

7;7AC

10; 10Sc

8 49 47 22

20.8 19.6 19.5

22.4

1;1Cu 7;7Cu

23.0 22.8

	No-5	
	CENTRO	
	point:	
Observation	Observation point: CENTRO	
Surface Meteorological Observation	•	

Atmospheric pressure (mb)	782.6	782.5	782.3	782.1	782.2	782.5	782.8	783.6	783.8	783.5	783.0		780.6	779.6	778.8	778.6	779-0	780.0	780.5	781.2	782.0	782.2	782.2	782.0
Time	1	8	3	4	ß	9	2	8	ດ	10	11	12	13	14	15	16	17	I 8	19	20	21	22	23	24
	·1			1				1		<u> </u>							1	·]]		···			
Cloud amount/type	0;	0;	10;10Sc	4;4Sc	0;	3;3Ac	3;3Ac	2:2Ac	1;1Ac	0;	2;2Cs	3;3Cs	3; XCu, 3Cs	10;1Cu,10Cs	7;1Cu,7Cs	7;2Cu,7Cs	7;3Cu,7Cs	7;3Cu,1Ac,XCs	6;5AC	4;4Ac	0;	0;	0;	:0
Veather	Ó	0	0	θ	0	θ	θ	θ	0	0	θ	θ	θ	⊜	θ	θ	Θ	Θ	θ	Θ	0	0	0	0
Humidity (%)	46	46	48.	54	63	B0	60	53	49	38	33	29	25	26	25	25	25	25	39	44	48	44	45	46
Vet-bulb temperature (°C)	7.6	7.1	1.0	6-3	6.9	6.8	6.4	7.5	8.6	9.5	9.6	9.8	10.1	10.6	10.2	10.4	9.9	9.4	10.4	10.6	10.2	6.0	8.1	7.8
Dry-bulb temperature (*C)	13.8	13.2	12.7	11.8	10.6	10.8	10.4	12.6	14.5	17.7	18.8	20.0	21.5	22.0	21.8	22.1	21.4	20.5	18.6	17.8	16.7	15.8	14.6	14.0
Atmospheric pressure (mb)	783.7	783.4	783.2	783.3	783.1	783.4	783.6	784.2	784.8	784.6	784.1	783.1	782.1	781.1	780.3	780.1	780.2	780.6	781.5	782.3	782.9	782.9	782.8	782.7
		2	ю	4	QI	Q	~	တ	თ	0 1	1 7	12	13	4	12	16	17	18	19	50	51	51 52	23	24

ENTRO No-5	Cloud amount/type						, 4Ci		, 10'As	. 8Cs	c.8Cs	1,250	xCb	-	9;3Cu,4Sc,XCb	X.	7;XCu,⪼,XCb	8;4Cu,6Sc,XCb	, 0 Ac						
soint: Cl 1987	Cloud	3;3Ac	107,10Ac	8;8AC	3;3Ac	4;4AC	7;3Ac,4Ci	7;7Ac	10;2Sc, 10'As	8;2Ac,8Cs	8; 0'Ac.8Cs	2; 0 Cu, 25c	9;9Cu,xCb	10;10Cu	9;3Cu	7;5Cu,2Sc	7:XCu	8;4Cu	7;7Sc, 0 Ac	9;9Sc	5;5Ac	6;6Ac	4;4Ac	I;1Ac	4;4AC
Data ervation I ember 28,	Veather	Θ	0	ė	ė	θ	θ	θ	۲	Θ	θ	θ	0	٥	0	Θ	Θ	θ	θ	0	Θ	θ	θ	0	θ
bservation Obs Nov	Humidity (‡)	1	72	70	52	82	75	76	75	29	55	22	43	40	36	31	36	40	44	47	62	61	ន	66	88
Surface Meteorological Observation Data Observation point: CENTRO Mo-5 November 28, 1987	¥et-bulb temperature (°C)	11.2	11 - 1	11.4	10.5	10-0	10.4	10.2	10.6	10.6	13.0	13.8	12.6	12.5	13.3	12.8	12.8	13.0	12.7	12.4	12.8	12.5	12.2	11.8	11-8
Surface Me	Dry-bulb temperature (°C)	13.7	14.2	14.8	12.7	11.8	13.0	12.7	13.3	15.4	18.8	19.7	20.7	21.2	23.2	23.9	22.5	21.9	20.6	19.5	17.5	17.2	16.6	15.8	15.5
	Atmospheric pressure (mb)	781.0	781 .0	781.1	781.4	782.0	782.1	782.6	783.0	783.5	783.4	782.7	7.187	781.0	780.1	7.9.7	779.5	780.0	780.4	781.1	781.7	782.3	782.8	783.0	782.9
	Time		∾	ŝ	4	ŝ	Q	~	80	σ	10	11	12	13	14	15	10	17	18	1.9	20	5	2 73 73	3 3 3	24
on point: CENTRO No-5 27, 1987	Cloud amount/type	4;4Åc	3;]Cu.2Ac	ig:2cu.igAc	10;2Sc, 10Ac	2;2Ac	3;3Ac	3;3Ac	IUTIUAC	ເປັງໄປໄດ	7;3Sc,5Ac	6;15c.6Ac	8;5Sc,XAc	9;2Cu.9Cs	:0:10Sc	9;8HS,XAS	IC;8Ns,XAs	9;7NS,XAS,XAC	9;5Ac,4As	8;8Ac	9;9Ac	8;8Ac	5;24c,34s	9:3Ac,6As	8;8Ac
	Vea ther.	θ	θ	0	0	θ	Ð	θ	0	0	θ	θ	Θ	⊜	0	٠	•	0	Ø	θ	٥	θ	θ	0	Θ
bservation Obse Nove	Humidity (2)	55	63	62	61	11	66	74	60	57	46	46	43	39	38	53	40	41	52	56	58	58	99	64	11
Surface Meteorological Observation Data Observat November	Vet-bulb temperature (°C)	11.3	11.0	10.7	10.7	10-0	9.9	9.9	10.8	11.5	11.8	12.8	12.3	12.9	12.3	13.5	12.2	11.8	12.2	12.4	12.2	12.2	11.8	11.4	11.5
Surface Me	Dry-bulb temperature (*C)	16.8	15.2	15.0	15.2	13.1	13.6	12.6	15.5	15.8	19:0	20.3	20.2	22.0	21.3	19.8	20.8	20.0	18.4	18.0	17.4	17.4	15.8	15.5	14.8
	heric sure	781.6	781.2	780.9	781.1	781.2	781.5	781.7	782.4	782.7	782.8	782.2	781.5	780.2	779.5	779.3	779.3	779.9	780.4	781.0	781.6	782.0	782.0	782.2	781.5
	Atmospheric pressure (mb)	182	7	t~-	4	7	1~	~	1					'-			1			l .	[`.	1		

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Surface Meteorological Observation Data Observation point: CENTRO No-5 Wowmens 20 1987

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1987	Cloud amount/type	5;1Ac.5Cs	1;1Ac	0;	I;IAC	5;1Ac,5Cs	6;2Ac,5Cs	4;2Ac,2Ci	4;2Ac,2Ci	3;3Ac, ICi	8;3Ac,XCs	8;2Sc, 0 Ac, XCs	8; 0 Cu, 2Sc, 1Ac, XCs	6;4Sc,2Ci,XCs	6; J Cu, 5Sc, XCi	3;1Cu,3Sc, 0 Ac	7;1Cu,4Sc,2Ac,XCi	8;1Cu,1Sc,1Ac,XCi	7;1Sc,3Ac,XCi	7;2Ac,7Ci	6;6Ac	8;8Ac	8;8Ac	3;3Ac	0°; 0°Ac
Kovember 30,	Veather	Θ	0	0	0	θ	θ	Θ	Θ	θ	θ	θ	θ	Θ	Θ	θ	θ	θ	θ	Θ	θ	θ	θ	θ	0
Kove	Humidity (%)	67	83	71	74	66	63	67	69	54	43	34	31	31	29	32	35	36	38	43	46	50	52	55	ន
	Wet-bulb temperature (*C)	10.0	9.4	9.2	8.6	8.6	8.8	8.7	9.0	10.1	10.3	11.2	12.4	13,2	12.7	12.9	12.6	11.9	11.8	11.3	10.9	10.8	10.6	10.4	9.8
	Dry-buib temperature <tc></tc>	13.6	13.4	12.2	11.2	12.2	12.0	12.1	12.2	15.5	17.5	20.8	23.2	24.2	24.2	23.7	22.5	21.2	20.7	18.9	17.9	17.0	16.4	15.8	13.9
	Atmospheric pressure (mb)	782.6	782.4	782.1	782.0	781.5	781.8	782.1	782.5	783.5	783.2	782.4	7.187	780.4	779.6	779.1	779.1	778.2	779.4	780.3	780.8	781.2	781.6	781.6	781.6
	1- 1- 1-	-1	2	m	4	വ	G	~	ω	σ	10	11	12	1 1 1	14	1 5	16	17	18	19	20	21	22	23	24

tion Data Observation point: CENTRO No-5 November 29, 1987	Weather Cloud amount/type	O 1;1Ac	0:	0 0:0Ac	0 0:0Ac	O I;IAC	© 10:75c,XAS	9;95c	Φ 8;1Cu,5Sc,XCi	D 5;35c,1Ac,XCi	© 6;2Cu,1Sc,2Ac,XCi	D 7;2Cu,2Sc,4Ac,XCi	0 7;XCu,4Sc,XCi	© 10;85c,XCi	© 10;8Ns,xCu	© 10';9NS, xCu	@ 10;9NS,XCu	D 8; 0' Cu, 3Sc, 5Ac, XCi	Φ 8; 0 [°] Cu, 3Sc, 7Ac	D 6;1Sc,6Ac	0 8;8Ac	0 3;3Ac	0 6;6Ac	O 1;1Ac	Φ 2;2Ac
bservation Obs Nov	Humidity (2)	81	54	81	82	94	62 J	282	12	66	50	44	39	40	40	42	41	40	43	40	47	51	51	57	61
Surface Meteorological Observation Data Observat November	Wet-buib temperature (°C)	12.5	11.4	11.0	10.9	10.8	11.3	11.5	11.8	12.2	12.8	12-4	12.2	12.4	12.0	12.6	12.0	12.0	11.2	10.2	10.9	10.7	10.4	9.9	9.6
Surface Me	Dry-buib temperature (*C)	14.6	14.2	13.0	12.8	11.4	13.5	13.8	15.0	16.2	19.4	20.2	20.9	21.1	20.5	20.8	20.2	20.4	18.9	18.2	17.7	16.8	16.4	14.8	14.0
	Atmospheric pressure (mb)	782.5	782.4	782.3	782.3	782.1	782.5	782.8	783-1	783.2	783.2	782.8	782.2	781.2	780.8	780.6	780.9	781.2	781.5	782.3	782.8	783.0	783.1	783.1	783.0
	8) E		3	M	4	ດເ	G	2	00	σ	10	1 1	12	13	14	15	16	17	18	19	20	21	22	23	24

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Surface Meteorological Observation Data Observation point: CEMTRO No-5 December 2, 1987

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1987	Cioud amount/type	:0	7;7Cs	7:7Cs	5;5Cs	4:4Cs	10; 10Cs	8;1Cc,8Cs	s;sci	3;3Ci	4; 0 Sc, 3Ac, 1Ci	7;2Ac,7Cs	8;8Ac	3;3Ac	2;2Ac	2;2AC	0°; 0'Ac	6:4Ac.XCc	6;1Ac,2Cc,4Ci	0;	0'; 0'Ci	4;4Cs	3;3Cs	0;	0;
December 2,	Weathre	0	Φ	Θ	θ	θ	θ	θ	Φ	θ	θ	θ	θ	Θ	θ	θ	0	Θ	θ	0	0	θ	θ	0	0
Dec	Humidity <%	68	73	74	76	83	ш	80	22	59	44	33	25	19	18	18	21	21	19	41	53	56	44	46	51
	Vet-bulb temperature (*C)	9.1	8.8	8.2	8.0	7.6	7.4	7.2	8.4	9.4	9.8	9.8	10.0	9.8	9.8	10.1	10.1	5-5 8	8.8	11.4	11.2	11.2	80 80	8.3	2.8
	Dry-bulb temperature (*C)	12.4	11.3	10.7	10.3	9.2	3.6:	0-6	11.2	14.0	16.8	19.0	21.4	23.0	23.3	23.7	22.8	21.8	21.3	19.5	17.0	16-6	15.6	14.6	13.2
	Atmospheric pressure (mb)	783.4	783.0	782.8	783.0	783.3	783.8	784.2	734.8	785.4	785.4	785.0	784.5	783.1	782.4	782.2	6-187	782.1	782.4	783.9	785.0	785.7	786.2	786.5	786.5
	Tinc		ณ	с С	4	ດ	9	2	8	σ	10	1	12	13	14	1 2	16	17	18	19	20	21	22	23	24

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Humaidity Heather Cloud amount/type (%)	64 O 0'; 0' Ac	68 🛛 🗘 🕴 2:2Ac	72 O G; G Ac	72 🕲 10;10'Ac	69 🖉 10"; 10"Ac	71 🛛 🗇 10;10Ac	73 🕲 10;10Ac	69 Ø 3;9Ac	65 Ø 10;2Sc,7Ac,XAs	60 Ø 9;1Sc,8Ac,XAS	54 © 10;15c,84c,XCc	51 🔗 10°;1Sc,8Ac	45 @ 10;XCu, 25c,6Ac,XCs	41 🕲 9;2Cu,7Sc, JAc	33 © 101.XCu.65c,XAc	35 D 8;2Cu,5Sc,XAc	41 D 7;2Sc,7Ac	42 © 8;8Ac	44 @ 613Sc,XAC	48 Ø 9;1Sc.4Ac.4As	56 O 3:3Ac	58 D 3;3Ac	63 D 6:6Ac
Wet-bulb temperature (C)	9-8	9-6	8.8	0.6	9-4	8.8	9.8	10.2	10.7	11-6	12.5	11-6	12.0	12.2	11.4	11.3	12.2	11.6	11-0	11.1	11.1	10.8	α σι
Dry-bulb temperature <*C>	13.7	13-0	11.6	11.9	12.6	12.8	12.6	13.5	14.7	16.4	18.4	17.9	19.5	20.5	21.4	20.7	20.6	19-6	18.4	17.7	16.4	15-8	10.0
Atmospheric pressure (mb)	781.5	781.4	781.3	781.3	781.3	781.9	782.0	782.9	783.4	783.2	783.0	782.2	781.2	780.1	780.0	7.977	780.3	7.087	9.187	782.2	782.6	783.0	702
1 Star Star	-	N	m	4	2	e,	~	80	S	10	11	12	13	14	01 	16	17	18	19	20	21	22	0

t: CENTRO No-5 7	Cloud amcunt/type		•••		•••				•	••							• 4				• 6				
rta ration poin ber 3, 198	Veather Cl	0 0:	0 0;	0;	0;0	0 0:	:0	0 0:	0:	:: 0	0 0:	0:0	0:	0 0;	0;	0 0;	0 0;	0;	0;	0 0:	0 0;	0;			
servation ur Observ Decemi	Humidity 🤟	57	58	60	69	62	72	78	69	58	47	37	26	23	22	19	19	16	18	23	27 -	32			
Surface Meteorological Ubservation Data Observation point: December 3, 1987	Vet-bulb temperature (°C)	7.0	7.3	6-6	6.3	6.4	6.0	6.4	7.2	8-5 -	10.2	10.0	9.4	10.0	10.1	9-4	9.5	8.4	7.9	1.7	7.6	7.0			
Surface Met	Bry+bulb temperature (*C)	11.5	11.6	10.6	9.2	10.1	8.8	8.4	10.2	13.1	16.8	18.5	20.2	22.1	22.4	22.3	22.3	21.7	20.2	18.6	17.3	15.4			
, ·	Atmospheric pressure (mb)	786.9	786.8	786.6	786.6	0*187	787.5	787.6	788.0	788.5	788.5	788.2	787.1	785.5	785-0	784.6	784.3	784.4	784.8	785.0	786.2	787.1			
	1. 		2	m	4	വ	G	٢-	ø	σ	10	11	12	13	14	15	16	21	18	6 I	20	21	22	23	24

AP-15

Surface Meteorological Observation Data

Surface Meteorological Observation Data Observation point: CENTRO No-5

Surface Meteorological Observation Data Observation point: CENTRO No-5

February 18, 1988	Weather Cloud amount/type	0 0;	to 0	:0	0 0;	0 0	ta 0	O U; GAC	0 0:	0 0;	0	0 0:	;	0 0;	O office	0 0;	0 0:0Cu	Φ 2;2Ci	0 0;	0 6;	0 0:	O 0;	0:	:0	:0
Febr	Humidity (%)	52	57	62	61	72	74	73	65	46	30	20	16	16	14	12	12	12 -	12	14	17	20	29	34	36
	Wet-buib temperature (°C)	9.0	8.9	8.6	8.0	8.1	8.5	7.4	6.0	9.6	8.8	10.0	11.1	10.9	11.2	10.8	10-6	10.3	9.5	8.6	8.4	8.2	7.2	7.4	2.0
	Dry-bulb tomperature <*C)	I4.5	13.7	12.6	12.1	10.9	11.1	10-0	12.7	16.3	19.9	22.9	26.0	26.0	27.4	27.4	26.9	26.4	25.0	22.8	21.3	20.2	16.5	15.6	14.7
	Atmospheric pressure (mb)	781.6	781-6	1.187	780.9	6-082	780.8	7.087	780.8	781.2	781.0	780.8	780.0	779.1	277.8	776.9	776.5	776.5	0.777	778.3	779.2	780.2	780.2	780.2	780.2
		-1	2	m	4	ົາດ	ပ	2	ω	σ	10	11	12	13	14	1 2	16	17	18	19	20	21	22	23	24
1988	Cloud amount/type																-								:0
February 17,	Veather																								0
Feb	Humidity (%)																								50
	Vet-bulb temperature (°C)																								9.4
	0ry-bulb temperature (*C)																								15.3
	Atmospheric pressure (mb)						- 70 - 00														· · ·				782.3
	Tize	-	2	m	4	ы	ယ	~	ω	σ	10	11	12	13	14	10	9	17	18	0 11	20	5	5 5	23	24

.

Surface Meteorological Observation Data Observation point: CENTRO No-5

		:		Peb Feb	Ubservation point. February 20, 1988	oint. CENIKU NO-D 1988
1 Time	Atmospheric pressure (mb)	Dry-buib temperature (°C)	Wet-bulb temperature < C>	Humidity (2)	Vezther	Cloud amount/type
	778.3	15.5	7.6	36	0	0; JAc
3	778.2	15.3	6.4	29	0	1;1Ac
n	778.1	15.2	6.3	29	θ	3;3Ac
4	177.8	14.2	6.1	32	0	9;5Åc
0	778.2	13.8	7.5	45	Θ	8;8Ac
ω	778.3	14.0	7.3	42	0	9;9Ac
~	1.977	12.8	6.8	46	Ø	9;3Ac,xCi
ω	779.7	15.0	7.5	38	0	10;8Ac,2Ci,xCs
σ	7.9.7	17.9	8.1	28	θ	8;7Ac,2As,xCs
10	779.6	19.6	10.2	33	⊜	9; 0 Ac. 2Cs, 2Cc, 5Ci
1	779.4	21.2	9.1	21	θ	7;5Cc,xCs
12	778.4	24.2	10.6	19	θ	5;2Ac,5Cs
н 1 1	1.777	25-0	11.2	20	θ	7; 0 Cu, 1Ac, 7Cs
14	776.4	25.1	11.2	19	Ö	4; 0 [*] Cu,1Ac,3Cs
15	775.9	25.4	10.3	15	θ	8; 0 Cu,4Åc,×Cs
16	776.0	24.5	10.1	15	θ	8;8Ac
17	776.2	24.6	10.6	18	Θ	8; 0 [°] Cu, 2Sc, 3Ac, xCs
1 8	776.8	22.4	11.4	29	θ	9;3Ac,xCs
1 G	777.6	21.6	10.2	25	⊜	9;5Ac,xCs
20	778.4	20.4	10.2	30	Ð	7;3Ac,4Cs
21	779.5	20.0	9-8	29	Θ	5;1Ac,4Cs
5	780.0	18.4	7.1	20	θ	6;4Ac,2Cs
23	781.3	8.4	4-6	23	θ	4;3Ac,1Cs
24	782.7	ນ.ນ	3.4	74	θ	2;2Ac
ļ						

Cloud amount/type	:0	0;	0"; 0"Ac	0; .	0;	0;	0;	0;	0;	:0	0;	0;	0;	or; orcu	0'; 0'Ac	2;2Ac	6;6Ac	5;5Ac	4;4Ac	4;4Ac	4;4AC	2;2Ac	1;1Ac	:0
ity Weather	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	θ	θ	θ	θ	θ	θ	θ	0	0
Humidity (%)	38	40	46	53	55	55	52	51	33	37	29	15	19	6	11	11	12	16	21	24	† †	23	35	34
Wet-bulb temperature ('C)	6.3	5.8	6.7	6.5	5.3	4.4	â.ê	6.8	7.3	10.5	11.0	10.2	12.2	10.5	11.1	10.8	ٰ6.	10.4	10.2	9.7	12.9	8.4	9.4	8.2
Dry-bulb temperature (*C)	13.4	12.4	12.6	11.4	9.7	8.6	9.2	12.0	15.7	19.2	21.8	24.9	26.7	28.2	28.5	27.9	25.7	25.1	22.8	21.4	20.8	19.7	18.2	16.6
Atmospheric pressure (mb)	780.2	180.0	779.6	779.6	9:677	8-677	780.4	780.9	781.2	780.9	780.4	779.5	778.0	0.777	775.7	775.1	775.3	775.9	0.777	6.777	778.4	779.2	6.877	778.8
T ine		N	ю	4	OI	G	~	ω	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	53	24

nt: CENTRO No-5 88			Surface Me	teorological 0	lbservation Obse Febi	Data Ervation p Tuary 22,	Surface Meteorological Observation Data Observation point: CENTRO No-5 February 22, 1988
loud amount/type	1.46	Atmospheric pressure (mb)	Dry-buib temperature (-C)	Vet-bulb temperature (°C)	Humidity (2)	keather	Cloud amount/type
2;1Cu,1Ac	1	783.3	8.5	3.9	51	0	. :0
0;2Scx,10Ac	5	783.0	7.6	4.2	62	Ö	:0
0;10Ac	m	782.6	5.8	3.3	60	0	:0
0;10Ac +	4	782.4	7.5	3.6	57	θ	6;6Ac
0;10Ac	ເດ	782.6	7.4	3.5	24	Θ	4;4AC
0;10Ac	ω	783.1	7.4	3.5	57	٥	10;10Ac
0;10Ac.xAS	~	783.6	7.6	3.8	58	Θ.	8:7Ac.1As
0;3Sc,5Ac,XAS	80	784.2	6.0	4.6	54	θ	7:5Ac.24s
6;1Cu,1Ac,5Cs	ი	784.4	11.0	5.3	45	θ	8;8Ac.xCs
J;8As,xCs	10	784.5	14.0	7.2 -	41	Θ	6;3Ac,5Ci
7;2Ac,5As,xCs	11	784.0	18.0	9.4	36	0	1;1Ci
7;2Ac,6Cs	12	783.0	21.1	10.5	29	0	0;
5;1Ac,5Cs	13	7.187	22.0	10.0	23	0	0;
4:2Ac.3Cs	14	780.5	22.8	· 10.0	20	0	o;ocu.oci
7;5Sc,xCs	ີ ເມື	779.4	25.3	12.6	25	Θ	2;2Cu
5;1Cu,3Sc,xCs	16	778.1	24.8	11-0	19	0	1:1Cu
5;1Ac,5Cs	17	779.3	23.9	11.4	24	0	1;1Cu
3;1Ac.3Ci	18	780-0	21.4	10.7	28	0	ot;ocu
1;1AC	19	780.7	19.4	11.0	39	0	ot;ocu
:0	20	782.3	17.6	10.4	44	0	0;
0;	21	783.1	16.8	9.4	42	θ	5;5Ac
0;	2.2	783.8	15.8	9.1	45	θ	4;4Ac
:0	23	784.1	15.6	9-6	50	θ	2;2AC
:0	24	784.0	14.5	9.2	54	0	0;

point: CENTRO No-5 1988	Cloud amount/typ	2;1Cu,1Ac	10;2Scx,10Ac	10;10Ac	10;10Ac i	10;10Ac	10;10Ac	10;10Ac,xAs	10;3Sc,5Ac,xAs	6;1Cu,1Ac,5Cs	10;8As,xCs	7;2Ac,5As,xCs	7;2Ac,6Cs	5;1Ac,5Cs	4;2Ac.3Cs	7;5Sc,xCs	5;1Cu,3Sc,xCs	5;1Ac,5Cs	3;1Ac.3Ci	1;1Ac	0;	0;	0;	0;	0;	
Data rrvation uary 21	Veather	θ	Ô	0	0	٩	٩	0	0	θ	θ	θ	θ	Θ	Θ	θ	θ	θ	Θ	0	0	0	0	0	0	
Observation Obse Febr	Humidity (%)	77	5 7	75	11	71	68	02	68	61	54	50	40	36	27	24	24	24	25	24	33	36	43	46	48	
Surface Meteorological O	Wet-bulb temperature (C)	5.8	2.8	2.8	2.8	2.7	2.7	2.8	2.8	3.6	4.6	5.2	5.5	8.8	7.1	7.3	7-4	8.0	7.1	6.1	5.4	4.9	4.9	4.6	4.3	
Surface Me	Dry-bulb temperature ('C)	4.6	£.9	4.8	5.1	5.0	5.3	5.2	5.4	7.0	9-0	10.2	12.0	14.4	16.5	17.6	17.8	13.7	17.2	15.8	13.1	12.0	10.9	10.1	9.4	
	Atmospheric pressure (mb)	7.84.7	785.1	785.0	784.9	785.3	786.2	786.5	786.7	787.0	787.2	736.8	785.8	784.6	783.1	782.2	781.5	781.0	781.3	781.6	782.5	783.3	783.9	783.7	783.7	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2	m	4	S S	ω	~	ω	တ	10	11	12	13	14	- 10	16	17	18	19	5 0 5	21	22	23	24	

Atmospheric Pressure (°C) Var-bulb rescue (°C) Wat-bulb rescue (°C) Wat-bulb rescue (°C) Wat-bulb rescue (°C) Wat-bulb rescue (°C) Wat-bulb rescue (°C) Wat-bulb rescue (°C) Wat-bulb rescue (°C) Wat-bulb rescue (°C) Manospheric (°C) Time (°C) Time (°C) </th <th></th> <th></th> <th></th> <th>Surface Meteorological Ubservation Data Observat February</th> <th>Obs. Febr</th> <th>ervation p ruary 23,</th> <th>Observation point: CENTRO No-5 February 23, 1988</th> <th></th> <th></th> <th>Duriant and the second second beervat february</th> <th></th> <th>Feb</th> <th>ruary 24,</th> <th>Observation point: CENTRO No-5 February 24, 1988</th>				Surface Meteorological Ubservation Data Observat February	Obs. Febr	ervation p ruary 23,	Observation point: CENTRO No-5 February 23, 1988			Duriant and the second second beervat february		Feb	ruary 24,	Observation point: CENTRO No-5 February 24, 1988
TR3.6 13.0 8.4 58 $\mathbf{\Omega}$ 53.0c 1 755.2 755.2 783.0 12.5 8.4 61 $\mathbf{\Omega}$ 77.14c 2 755.2 783.6 10.3 7.6 72 $\mathbf{\Omega}$ 334c 4 755.0 783.6 10.3 7.6 72 $\mathbf{\Omega}$ 334c 4 755.0 783.5 9.2 6.3 69 0 0; 7 755.6 783.5 9.2 6.3 69 0 0; 7 755.6 783.5 11.8 6.9 5.3 64 0 0; 7 755.6 783.5 11.8 6.9 5.3 0 0; 7 755.6 784.9 16.8 10.6 5.0 0 0; 7 755.6 784.9 16.8 10.4 7 7 755.6 1 7 755.6 784.9 11.4 32		tmospheric pressure (mb)	Dry-bulb temperature (°C)	Vet-bulb temperature (*C)	Humidity (%)	Weather	Cioud amount/type		Atmospheric pressure (mb)	Dry-bulb temperature (°C)	Vet-bulb temperature (°C)	Humidity (1)	Weather	Cioud amount/type
783.0 12.5 8.4 61 0 $77hc$ 2 755.2 755.2 782.6 10.3 7.6 72 0 3:34c 4 755.0 782.6 10.3 7.6 7.2 0 3:34c 5 755.0 783.5 9.2 6.3 6.9 0 0; 7 755.6 783.5 9.2 6.3 5.3 6.9 0 0; 7 755.2 783.5 9.2 6.3 5.3 6.9 0 0; 7 755.3 7 7 755.4 7 755.5 7 <td>1</td> <td>783.6</td> <td>13.0</td> <td>8.4</td> <td>28</td> <td>θ</td> <td>8;8Åc</td> <td>F</td> <td>785.3</td> <td>13.0</td> <td>7.5</td> <td>50</td> <td>θ</td> <td>4;4Cs</td>	1	783.6	13.0	8.4	28	θ	8;8Åc	F	785.3	13.0	7.5	50	θ	4;4Cs
782.8 11.9 8.2 64 \odot $10;1;0;c$ 3.34c 4 785.0 782.6 10.3 7.6 72 \odot 3.34c 4 785.0 783.5 9.2 6.3 66 \bigcirc 0; 5 7 785.0 783.5 9.2 6.3 69 \bigcirc 0; 5 7 785.0 783.5 9.2 6.3 69 \bigcirc 0; 7 7 785.3 7 784.5 11.8 6.9 5 0 0; 7 7 785.3 7 7 7 785.3 7 7 7 785.3 7 </td <td>5</td> <td>783.0</td> <td>12-5</td> <td>8.4</td> <td>61</td> <td>θ</td> <td>7;7Ac</td> <td>2</td> <td>785.2</td> <td>12.8</td> <td>7.6</td> <td>52</td> <td>Ð.</td> <td>4;4Cs</td>	5	783.0	12-5	8.4	61	θ	7;7Ac	2	785.2	12.8	7.6	52	Ð.	4;4Cs
782.6 10.3 7.6 72 \odot 33.34c 4 785.0 7 783.4 10.4 7.1 66 \bigcirc 0 6; 7 7 785.0 783.5 9.2 6.3 69 \bigcirc 0; 6 785.2 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 786.3 786.3 786.3 786.3 7 7 785.6 10 7 785.6 11 7 786.3 11 785.0 11 7 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 11 786.4 12 786.5 11	ო	782.8	11.9	8.2	64	0	10;10Ac	ო	785.0	12.6	6.6	45	θ	3:3Cs
783.4 10.4 7.1 66 0 0; 5 785.1 5 783.5 9.2 6.3 69 0 0; 6 785.2 6 784.2 8.6 5.3 69 0 0; 7 785.2 6 784.2 8.6 5.3 64 0 0; 7 785.2 7 785.0 14.0 7.6 44 0 0; 7 785.6 785.3 785.0 16.8 10.4 38 0 5;56.8 11 786.0 786.4 786.6 786.6 786.6 785.0 783.5 21.6 11.4 32 0 3;56.8 12 786.0 13 783.6 13 783.6 783.6 13 783.6 14 783.6 14 780.4 783.6 14 780.4 14 780.4 14 780.4 15 780.4 15 780.4 15 780.4 <t< td=""><td>4</td><td>782.6</td><td>10.3</td><td>7-6</td><td>12</td><td>Đ</td><td>3;3Ac</td><td>4</td><td>785.0</td><td>11.8</td><td>.6.3</td><td>43</td><td>θ</td><td>5;Csc</td></t<>	4	782.6	10.3	7-6	12	Đ	3;3Ac	4	785.0	11.8	.6.3	43	θ	5;Csc
783.5 9.2 6.3 69 0 0; 6 785.2 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 7 785.6 785.3 64 0 0; 0; 8 785.3 785.3 785.6 11 785.6 11 785.5 11 785.5 11 785.5 11 785.5 12 785.6 12 785.6 12 785.6 12 785.6 13 785.6 13 785.6 13 785.6 13 785.6 13 785.6 13 785.6 13 785.6 13 785.6 13 785.6 13 785.6 13 785.6 14 785.1 785.6 14 785.1 14 785.1 15 785.4 14 785.4 14 785.4 14 785.4 14 785.4 15 <th1< td=""><td>2</td><td>783.4</td><td>10.4</td><td>7.1</td><td>66</td><td>0</td><td>:0</td><td>ດ</td><td>785.1</td><td>10.6</td><td>6.1</td><td>55</td><td>θ</td><td>5;5Cs</td></th1<>	2	783.4	10.4	7.1	66	0	:0	ດ	785.1	10.6	6.1	55	θ	5;5Cs
784.2 8.6 5.3 64 \bigcirc \bigcirc 7 ; 75.6 7 755.6 7 755.6 7 755.6 7 755.6 786.3 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4	Q	783.5	9.2	6.3	69	0	:6	ဖ	785.2	10.1	5.7	55	θ	5;5Cs
784.5 11.8 5.9 5.3 O 0: B 786.3 786.3 786.3 786.3 786.3 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.4 786.5 11.1 788.0 0.0 0: 11.1 786.0 786.4 786.5 11.1 788.0 786.4 786.0 786.5 11.1 788.0 786.5 12.1 8.4 21.7 8.4 21.1 786.0 786.5 12.1 786.0 786.6 12.1 786.0 786.6 13.2 786.6 13.2 786.6 13.2 786.6 13.2 786.6 13.2 786.6 13.2 786.6 13.2 786.6 13.2 786.6 14.2 786.6 14.2 786.7 14.2 786.4 16.2 780.4 17.2 786.4 16.2 786.4 16.2 786.4 17.2 786.4 17.2 786.4 17.2 780.4 17.2 780.4<	2	784.2	8.6	5.3	64	0	0"; 0"Ac	2	785-6	8-7-5	5.9	61	θ	7;7Cs
785.0 14.0 7.6 44 \bigcirc $>$ $>$ $>$ <	8	784.5	11.8	6.9	53	0	0;	00	786.3	11.3	6.6	55	0	1;1Cs
784.9 16.8 10.6 50 0 0; 10 786.6 1 784.6 18.7 10.4 38 0 5;5Cs 1 1 786.0 1 784.6 18.7 10.4 32 0 5;5Cs 1 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 786.0 1 782.4 178.2 1 782.4 178.2 1 782.4 1 782.4 1 782.4 1 782.4 1 782.4 1 782.4 1 782.4 1 782.4 1 782.4 1 782.4 1 782.4 1 780.4 1 780.4 1 780.4 1 780.4 1	σ	785.0	14.0	7.6	44	0	0:	σ	786.4	13.6	2-2	48	0	:0
784.6 18.7 10.4 38 O 55Cs 1 786.0		784.9	16.8	10.6	50	0	:0		786.6	15.8	9.2	46	0.	0;
783.5 21.6 11.4 32 0 $3:3Cs$ 12 785.0 782.4 21.7 9.4 21 0 $5;5Cs$ 13 783.6 781.1 24.8 11.0 19 0 $5;5Cs$ 14 782.4 781.1 24.8 10.8 18 0 $8;8Cs$ 14 782.4 780.3 24.8 10.8 18 0 $8;8Cs$ 14 780.4 780.3 25.2 11.3 19 0 $5;5Cs$ 17 780.4 780.0 25.0 10.2 15 0 $4;1Cu,3Cs$ 17 780.4 780.0 25.14 9.8 21 0 $4;1Cu,3Cs$ 17 780.4 780.1 782.0 17 0 $4;1Cu,3Cs$ 17 780.4 780.2 25.4 9.8 0 $4;1Cu,3Cs$ 17 780.4 780.1 22.4 9.8 0 $4;1Cu,3Cs$ 18 782.0	,	9-187	I8-7	10.4	38	θ	5;5Cs		786.0	18-6	10.6	40	0	°:
782.4 21.7 9.4 21 0 $5;5Cs$ 13 783.6 13 783.6 13 783.6 14 783.6 14 783.4 783.4 783.4 783.4 782.4 782.4 782.4 782.4 782.4 782.4 10.8 18 0 $8;8Cs$ 14 782.4 782.4 17 780.4 782.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 17 780.4 180.4 180.4 180.4 180.4 180.4 180.4 180.4 180.4 180.4 180.4 180.4 180.4		783.5	21.6	11.4	32	Θ	3;3Cs		785.0	20.8	. 11.0	33	0	:5
781.1 24.8 11.0 19 0 $5;5Cs$ 14 782.4 780.3 24.8 10.8 18 0 $8;8Cs$ 15 780.4 779.5 25.2 11.3 19 0 $8;8Cs$ 16 780.4 779.5 25.2 11.3 19 0 $8;8Cs$ 16 780.4 780.0 25.0 10.2 15 0 $4;1Cu,3Cs$ 17 780.4 780.8 23.8 10.0 17 0 $7;7Sc,xCu$ 18 782.0 781.6 22.4 9.8 21 0 $4;4Cs$ 20 783.3 781.6 22.4 9.8 21 0 $4;4Cs$ 20 784.2 781.6 22.4 9.8 21 0 $4;4Cs$ 20.7 784.2 782.1 783.4 0 $3;2Sc,8Cs$ 18 784.2 784.2 783.9 18.6 10.5 34 0 $3;3Cs$ 20 784.2 <tr< td=""><td></td><td>782.4</td><td>21.7</td><td>9.4</td><td>21</td><td>θ</td><td>5;5Cs</td><td>13</td><td>783.6</td><td>22.7</td><td>11.4</td><td>28</td><td>θ</td><td>5;5Cs</td></tr<>		782.4	21.7	9.4	21	θ	5;5Cs	13	783.6	22.7	11.4	28	θ	5;5Cs
780.3 24.8 10.8 18 0 8:8Cs 15 780.8 15 780.4 15 780.4 16 780.4 17 780.4 18 782.0 18 782.0 18 782.0 18 782.0 781.2 20.0 784.2 20.4 782.3 20.4 782.3 20.4 782.3 20.4 782.3 20.4 782.1 782.3 20.4 782.3 20.4 783.3 20.4 20.4 20.4 20.4 20.4 20.4 20.4 20.4 20.4 20.4 20.4 <th< td=""><td></td><td>781.1</td><td>24.8</td><td>11.0</td><td>19</td><td>θ</td><td>5;5Cs</td><td></td><td>782.4</td><td>24.2</td><td>10.2</td><td>17</td><td>θ</td><td>5;1Cu,5Cs</td></th<>		781.1	24.8	11.0	19	θ	5;5Cs		782.4	24.2	10.2	17	θ	5;1Cu,5Cs
779.5 25.2 11.3 19 0 5;5Cs 16 780.4 780.0 25.0 10.2 15 0 4;1Cu,3Cs 17 780.4 780.8 23.8 10.0 17 0 7;7Sc,xCu 18 782.0 780.8 23.8 10.0 17 0 7;7Sc,xCu 18 782.0 781.6 22.4 9.8 21 0 9;2Sc,8Cs 19 783.3 781.6 22.4 9.8 21 0 4;4Cs 20 784.2 782.9 18.6 10.5 34 0 4;4Cs 20 784.2 783.9 18.6 10.2 38 0 3;3Cs 20 784.2 784.9 15.8 9.4 47 0 0; 22 785.1 784.9 14.6 9.0 52 0 0; 23 785.1 775.4 9.0 52 0 0; 23 23 785.1		780.3	24.8	10.8	18	θ	8;8Cs		780.8	24.8	8.11	23	0	10;1Cu,10Cs
780.0 25.0 10.2 15 \oplus 4:1Cu,3Cs 17 780.4 780.8 23.8 10.0 17 \oplus 7:75c,xCu 18 782.0 781.6 22.4 9.8 21 \oplus 9:25c,8Cs 19 783.3 781.6 22.4 9.8 21 \oplus 9:25c,8Cs 19 783.3 781.6 22.4 9.8 21 \oplus 9:25c,8Cs 19 783.3 782.8 20.0 10.5 34 \oplus 4:4Cs 20 784.2 783.9 18.6 10.2 38 \oplus 3:3Cs 2.1 785.1 784.9 15.8 9.4 47 \bigcirc 0; 2.2 2.3 784.9 14.6 9.0 52 \bigcirc 0; 2.3 76.6 5.0 0; 5.3 2.3		779-5	25.2	11.3	19	θ	5;5Cs		780.4	25.6	12.2	22	0	10;2Cu,10Cs
780.8 23.8 10.0 17 0 7:75c,xCu 18 782.0 781.6 22.4 9.8 21 0 9;25c,8Cs 19 783.3 781.8 20.0 10.6 34 0 4;4Cs 20 784.2 782.8 20.0 10.5 34 0 4;4Cs 20 784.2 783.9 18.6 10.2 38 0 3;3Cs 20 784.2 784.9 15.8 9.4 47 0 0; 22 785.1 784.9 14.6 9.0 52 0 0; 23 785.1		780.0	25.0	10.2	15	Θ	4;1Cu,3Cs		780.4	24.7	12.2	25	\$	10;3Cu,10Cs
781.6 22.4 9.8 21 \$\$\$\$ \$\$\$ \$\$\$ \$\$\$\$ \$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$		780.8	23.8	10.0	17	θ	7;7Sc,xCu		782.0	20.6	11.7	38	θ	7;1Cu,1Ac,5Cs
782.8 20.0 10.6 34 0 4;4Cs 20 784.2 783.9 18.6 10.2 38 0 3;3Cs 2.1 784.2 784.9 15.8 9.4 47 0 0; 2.2 785.1 784.9 14.6 9.4 47 0 0; 2.2 785.1 775.4 0 52 0 0; 2.3 2.3		3.187	22.4	8.6	21	θ	9;25c.8Cs		783.3	17.6	10.8	47	θ	8;3Ac,5Cs
783.9 18.6 10.2 38 0 3;3Cs 21 785.1 784.9 15.8 9.4 47 0 0; 22 785.1 784.9 15.8 9.4 47 0 0; 222 785.1 784.9 14.6 9.0 52 0 0; 23 73 705.4 12.5 0.0 0; 52 0 0; 23 74	20	782.8	20.0	10.5	34	θ	4;4Cs	20	784.2	15.6	10.0	23	Θ	7;7Sc
784.9 15.8 9.4 47 O 0; 784.9 14.6 9.0 52 O 0; 755.1 52 7 52 0 0;		783.9	18.6	10.2	38	θ	3;3Cs	21	785.1	15.0	9.6	54	θ	5;1Ac,4Cs
784.9 14.6 9.0 52 O 0; 755 7 0 0;	22	784.9	15.8	£.6	47.	0	0;	22						
705 / 12 0 0.	23	784.9	14.6	8-0	52	0	0;	5 3						
	24	785.4	13.2	7.6	50	0	:0	24						

0-5	type																								
Surface Meteorological Observation Data Observation point: CEMTRO NO-5 May 21, 1988	Cloud amount/type	7;7Ac	8;8Ac	4;4AC	4;4Ac	2;2Ac	o;	0;	0;	:0	:0	:5	:0	3;3Cu	4;4Cu	6;6Cu	7;2Cu,5Sc	10;10Sc	10°; 10°sc	8;8Ac	8;3Ac	ICT; ICAc	10;10Ac	10'; 10'AC	10; 10Ac
Data Vation p 21, 198	Weather	Θ	0	Θ	θ	Θ	0	0	0	0	0	0	0	Θ	θ	Θ	Θ	٢	٠	Ð	θ	0	۲	0	0
ibservation Obsei May	Humidity (%)	8	88	33	\$	ç	43	44	32	8	45	8	8	<u>5</u>	16	8	24	19	31	24	R	æ	8	0 1	45
teorological C	Wet-bulb temperature (°C)	8.4	8.6	8.6	9.4	7.6	7.3	8-6	8.4	£.6	14.4	12.7	12.8	12.8	11.9	13.5	13.6	11.6	12.9	11.4	12.8	13.2	12.9	12.6	13.2
Surface he	Dry-bulb temperature (*C)	17.1	16.4	16.2	16.4	14.7	13.9	15.4	17.5	19.8	22.5	24.0	26.2	27.8	27.6	27.2	27.2	26.0	23.8	23.8	24.0	23.8	22.0	21.2	21.0
	Atmospheric pressure (mb)	781.8	781.7	781.6	7.187	781.9	782.2	782.7	782.9	783.2	782-9	782.4	781.5	781.6	8-622	779.0	778.6	778.7	780.1	780.4	781.3	782.1	782.9	783.2	783.0
	T ae	-1	N	ო	4	ດເ	ω	~	8	თ	10	I I	12	13	14	л Ю	9	17	18	19	20	21	22	23	5 7
Surface Meteorological Observation Data Observation point: CENTRO NO-5 May 20, 1988	Cloud amount/type																		· · · ·						9;9Ac
Data rvation po 20, 1989	Vezther																								۲
)bservation Obse May	Humidity (\$)																								32
teorological (Wet-bulb temperature (°C)																								er 8
Surface Me	Dry-bulb temperature (.C)																								17.2
	Atmospheric pressure (mb)																						-		782.1
·	1- 1-		2	m	4	in	<u>م</u>	~	ω	<u>ග</u>	0 1	-20	12	13	14	10 1	16	17	81	19	50	5]	22	3 5 9	24

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Surface Meteorological Observation Data Observation point: CENTRO NO-5 May 23, 1988	Cloud amount/type	4;3Ac,1As	6;1Ac,6Cs	6;6Cs	8;8Cs	7;7Cs	8;8Cs	1;1Cs	0;	0;	0;	0;	2;2Cu	3;1Cu,2Ac	4;3Cu,1Ac	5;5Cu	4;4Cu	3;1Cu,2Ac	8;8Ac	10°; 10'Ac	7;7Ac	7;2Cu,1Sc,xAc	9;9Åc	8;8Ac	10;10Ac
Data crvation p 23, 198	Weather	θ	θ	θ	θ	θ	Θ	0	0	0	0	o	0	θ	θ	θ	θ	θ	Θ	0	θ	θ	0	θ	۲
bservation Obse May	Humidity (%)	8	85	82	83	8	84	81	75	62	56	56	45	43	38	35	33	38	27	37	42	49	ន	58	ន
teorological O	Vet-bulb temperature (°C)	13.5	13.2	12.3	11.9	12.2	11.5	12.4	13-6	13.6	14.3	15.8	15.2	16.3	16.3	14.7	15.2	14.0	13.4	15.2	13.8	14.2	14.0	13.2	12.9
Surface Me	Dry-bulb temperature (*C)	15.4	14.8	14.2	13.7	14.0	13.2	14.4	16.5	18.4	20.2	22.0	23.5	25.4	26.6	25.4	26.4	26.5	25.8	25.4	22.3	21.4	18.6	18.6	18.6
	Atmospheric pressure (mb)	784.5	784.3	784.0	784.0	783.8	783.7	784.3	784.6	785.0	784.8	784.5	783.9	782.7	782.0	1.187	780.4	779.9	780.4	7.087	781.8	782.7	783.6	783.4	783.2
	Time	1	2	3	4	ດາ	9	2	00	ອ	10	11	12	13	14	15	16	17	18	19	20	21	55	3 7 9	24
n point: CENTRO NO-5	Cloud amount/type	3;3Ac	8;8Åc	S;9Ac	l0;10Ac	10;10Ac	9;3As,6Ac	7;2As,5Ac	1;1Ac	5;5As	6;6As	5;5As	6;3Cu,3As	l0;7Cu,xAs	10; 5Cu , 5As	10;5Ca,5As	101,5Cu.,5As	9;3Sc.xAs	10;5Cb,xAs	10;5Cb.xAs	10;7Sc,xAs	10;10NS	10;5Ac, xAs	8;64c,xAs	4;3Ac,xAs
ō,	Weather	θ	θ	0	0	۲	0	θ	0	θ	Θ	θ	θ	0	0	0	0	Ø	٠	٠	0	٠	0	θ	θ
bservation Obse May	Humidity (%)	43	47	47	45	45	52	54	51	50	56	8	38	36	æ	30	33	42	74	87	62	62	83	17	ន
Surface Meteoroiogical Observation Data Observat May 22	Wet-bulb temperature (°C)	12.3	11.8	11.0	10.4	10.8	11.2	12.0	12.3	13.1	15.0	14.0	14.8	14.1	15.1	13.5	15.2	15.4	14.3	13.8	13.3	13.4	14.3	13.8	13.4
Surface Me	Dry-bulb temperature (°C)	20.2	18.8	17.9	17.4	6*21	17-2	17.8	18.7	19.8	21.0	23.6	24.5	24.3	26.3	25.1	26.6	24.4	17.4	15.2	15.6	15.8	16.2	16.4	15.3
	Atmospheric pressure (mb)	782.7	782.3	782.2	782.2	782.7	783.2	783.7	784.0	784.0	783.9	783.5	782.6	781.9	781.1	780+4	780.1	780-1	782.8	783.4	783.6	784.4	784.6	784.8	784.7
	1- 	-	N	m	4	ດ	ю	~	ø	σ	10	1	12	13	14	15	16	17	18	1.9	20	21	22	5 3 3	24

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Surface Meteorological Observation Data Observation point: CENTRO NO-5 •

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	8;8Ac	9;3Sc,xAc	10:6Sc.xAc	9;6Sc,xAc	4;3Sc,xAc	4;4AC	10	0.	0;	:0	:0	6;1Cu,5As	5;3Cu,3As	6;1Cu,5As	7:3Cu, 5As	7;3Cu,4As	7;5Sc,2Cu	7;2Cb,5Sc	8;6Sc,xAs	10;10Cb	10;10Cb	10; 0 Cu, 5Sc; xAc	10;5Sc, XAc	8;3Sc,5Ac
¥œ‡	θ	0	٥	0	Θ	е	0	0	0	0	0	Θ	θ	Θ	θ	θ	θ	θ	θ	٩	٠	ø	0	Θ
Humidity (2)	23	52	61	62	73	80	18	78	11	99	61	48 -	42	26	35	36	56	33	42	70	30	76	74	71
Wet-bulb temperature (*C)	12.3	12.4	13.5	13.6	13.5	13.7	13.8	15.0	15.8	16.6	18.0	17.3	17.7	14.6	17.3	17.3	18.6	13.6	13.9	13.4	13.4	13.4	13.0	13.0
Dry-bulb temperature ('C)	18.5	18.6	18.4	18.4	16.5	15.9	15.9	17.5	19.5	21.2	23.6	25.4	27.4	28.0	28.8	28.5	25.2	24.4	22.6	16.9	14.5	16.1	16.0	16.4
Atmospheric pressure (mb)	783.2	782.9	782.7	783.1	783.2	783.8	784.1	784.4	784.4	784.1	783.5	782-6	5.187	780.8	780.2	7.677	780.2	780.0	781.3	783.9	784.6	785.3	785.2	784.7
ц Ц Ц	-	2	ю	4	S	9	2	8	ი	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

	Cioud amount/type	9;9Ac	10; 10Ac	3;3Ac	7; ISc, 8Ac	2;24c	7;	0;	0;	0;	0;	:0	2;2Cu	3;3Cu	4;4Cu	3;3Cu	4:4Cu	5;5Cu	7;3Cu,4Sc	7;3Cu.4Sc	8;2Cu,4Sc,xAc	9;2Sc,9Ac	10; 10Ac	8;8Ac	6; 0 Sc, 6Ac
nay 24, 1900	Vea ther	0	0	θ	Θ	Θ	θ	0	0	0	0	0	Θ	Θ	Θ	Θ	θ	θ	Θ	θ	ē	0	٢	θ	Ð
132	Humidity (%)	62	59	60	67	65	66	62	56	51	39	42	34	38	25	36	46	42	45	31	39	45.	48	23	48
Vet-bulb	temperature (*C)	13.3	12.4	12.0	11.6	11.1	11.0	11.4	12.5	13.5	13.3	15.0	14.8	16.1	13.8	17.5	18-6	18.2	17.3	13.4	13.0	13.1	12.8	12.8	12.0
0ry-bulb	temperature (°C)	18.1	17.4	16.2	15.4	15.1	14.8	15.8	1.8.1	20.2	22.4	23.8	25.6	26.3	26.9	28.6	27.4	28.0	26.2	24.5	22-0	20.9	19.8	0.61	18.8
Atmospheric	pressure (mb)	783.1	782.7	782.3	782.6	782.4	782.6	783.3	784.4	784.3	784.0	783.5	783.0	782.1	781.3	780.3	779.5	779.1	779.5	780.4	781.4	782.7	783.6	784.1	783.8
Time		1	ମ	8	4	ເດ	Q	2	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

Surface Meteorological Observation Data

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Cloud amount/type	10:10Cb	10; 0'St, 4Cu, xHS	10; 0 ⁻ St,6Cu,xAc	8;5Cu,xAc	3;1Cu, 0'Sc,2Ac	6;1Cu, 0'Sc,6Ac	2; 0 [°] Cu,2Sc	1; 0 Cu, 0 Sc. 1 Ac	0;0cu	0;	1;1Cu	I;ICu	5;5Cu	10;3Sc,7Cu	IU:8Cb,25c	10;1006	9;xCb.4Sc	10;×Cb.4Sc	10;8Sc,xCb	10;5Sc,xCb	10;5Sc,xCb			
Veather (•	•	0	Ð	θ	θ	θ	0	0	0	0	0	Φ	0	•	•	Ø	•	•	8	© 1			
Humidity (2)	96	62	87	35	91	68	88	82	11	29	51	47	40	37	64	73	28	38	87	83	88			
Vet-bulb temperature (°C)	13.0	11.2	1.1.6	11.5	11.9	11:9	12.4	12.4	14-1	13.7	14.1	14.6	14.6	14.0	14.6	14.0	14.0	13.4	13.0	13.5	13.5			
Dry-bulb temperature (*C)	13.6	13.4	12.9	13.1	12.8	13-0	13.6	14.3	17.6	19.0	20.8	22.3	23.8	23.8	19.2	17.2	16.5	15.8	14.4	14.7	14.8			•
Atmospheric pressure (mb)	785.7	784.6	784.1	783.7	7.83.7	783.9	784.2	784.3	784.3	784.1	783.8	783.0	782.0	0*182	780.8	781.6	781.7	782.4	783.3	783.9	783.4			
Time -		3	e	4	ເບ	G	2	ω	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2 4

Surface Meteorological Observation Data Observation point: CENTRO NO-5 May 26, 1988	Cloud amount/type	6;3Sc,3Ac	8;1Sc,8Ac	9;2Sc,xAc	6; 0 [*] Sc, 6Ac	7:7Ac	5:4Ac,2Cs	:0	:0	0;	:0	0;	4;4Cu	4;4Cu	6; 6Cu	9;7Cb,xAs	8;5Cb,3Sc	10;7Cb,2Sc,1Cu	5;4Sc,ICb	8;5Sc,xCb	10;2Sc,8Cb	10;10Cb	10;10Cu	10;10Cb	10;10Cu
	Veather	θ	θ	Ø	θ	Θ	Θ	0	0	0	o	0	θ	θ	θ	•	θ	٢	θ	θ	0	۲	•	\$	۲
	Humidity (%)	12	78	17	78	81	79	74	69	62	52	44	42	35	29	29	23	42	45 .	48	54	82	83	86	61
	Vet-bulb temperature (°C)	13.2	12.8	12.7	12.6	12.3	11.6	12.0	13.2	13.4	13.4	13.8	14.5	j4-6	14.4	12.6	13.2	12.7	13.6	13.4	12.2	14.2	14.0	14.1	13.6
	Dry-bulb temperature (°C)	16.4	15.2	15.3	15.0	14.4	13.8	14.9	16-9	18.2	19.9	21.9	23.2	25.1	26.5	23.9	26.8	21.0	21.4	20.6	18.1	16.2	15.9	15.7	14.6
	Atmospheric pressure (mb)	784.3	784.4	784.2	784.5	784.6	785.0	785.1	784.9	784.6	784.8	784.1	783.4	782.4	781.2	780.9	779.8	780.4	780.3	781.7	783.0	784.5	784.7	785.2	785.5
	Тіпе	1	ମ	ო	4	сл	ഗ	2	80	ຫ	0 1	11	13	13	14	1 5	16	21	18	19	20	2]	22	23	24

1.2.2 Surface Wind Observation Data

Wind direction and wind speed observed are shown in the following Tables.

 (Note) MVS: Maximum Vind Speed
 (Note) MVS: Maximum Vind Speed
 VD: Vind Direction
 Time of Occurrence
 ND: The Number of Days
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1.2.3 Surface Wind Rose

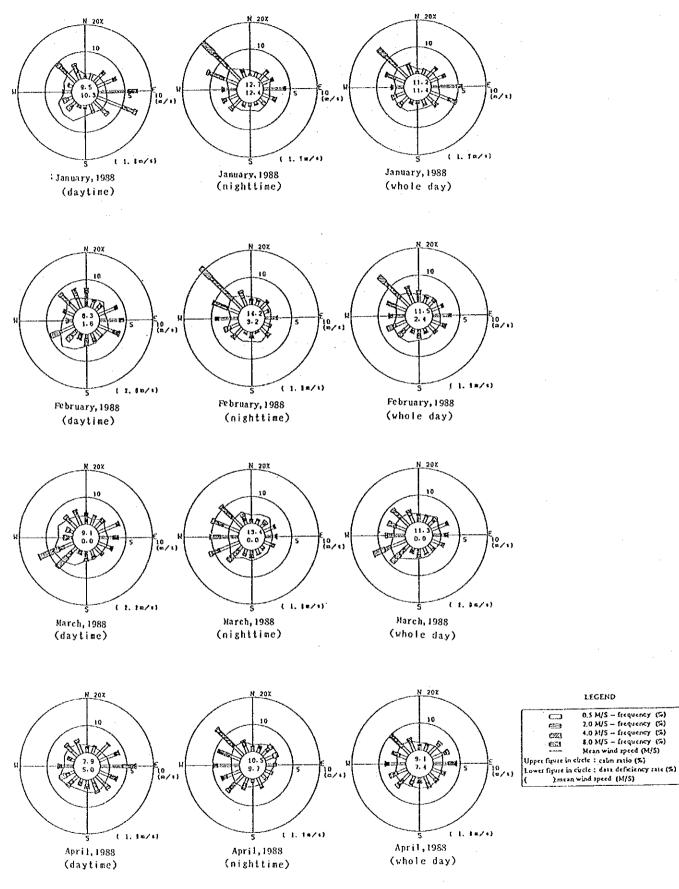
Wind roses for surface wind are shown in the following Figures.

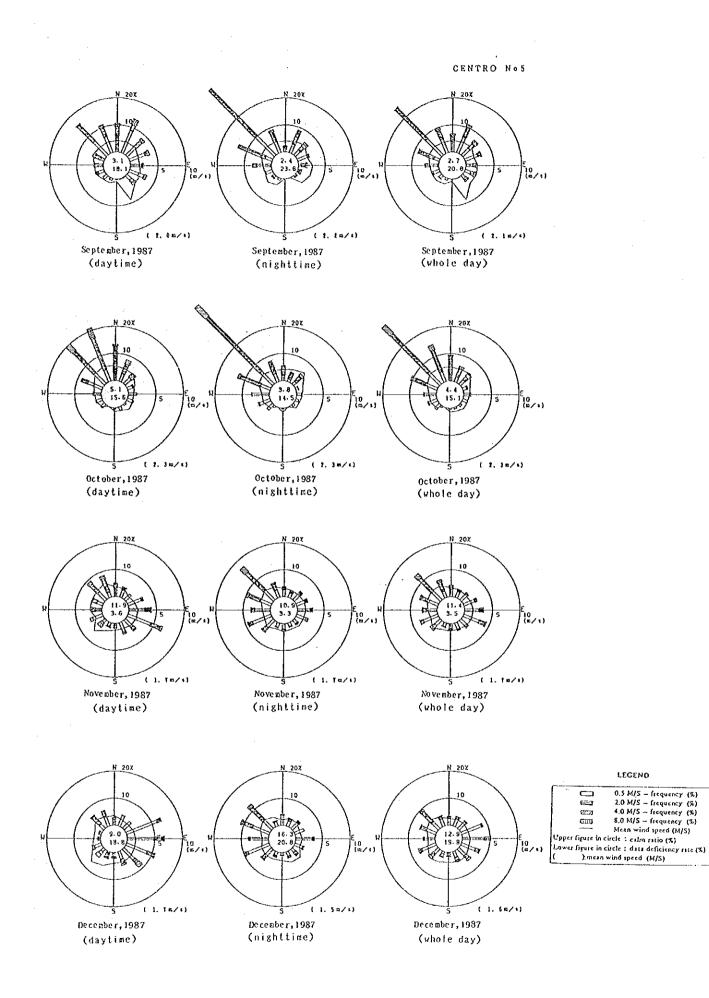
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CENTRO No 5

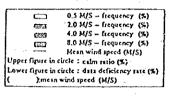




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CENTRO No 5 N 20X 20X N 20X 10 10 10 5 (0∕1) 10 (=/1) 10 (# ŝ (1.5×/s) . (3,4#24) (2. 1=/1) May, 1988 May,1988 Hay, 1988 (whole day) (daytime) (nighttime)

LEGEND



1.3 Upper-Layer Meteorology

1.3.1 Observation Activity

Activities in the upper-layer observation are shown in the following Tables.

	Hour				~~~~~								·····	
Mor	ith,day	•	• 3	•	• 6	•.	• 9	•	• 12	• •	15	••18•	• 21 •	• 24
	9 1 0			•					••••		a	0		~
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Table 1.3.1 (1) Upper Meteorological Observation Result (summer)

Note: (): Captive sonde used \triangle : Low sonde used

X: Measurement loss (measurement altitude 100 m or less)

-: No measurement schedule

Measurement not made at 9:00 of 13 and 9:00 and 12:00 of 14 because of flight training and on 15 and 16 becuase of Mexico independence day.

Hour					····		**** ********************************			
titude m	• •	3 •	• 6	• • 9	• • 12 •	• 15 •	• 18 •	• 21 •	• 24	All da
Surface		5	5	5	4	5	4	4	5	37
50		5	5	5	Ą	5	3	4	5	36
100		5	5	5	4	5	3	4	5	36
150	ţ	5	5	5	4	5	3	. 3	5	35
200	1	5	5	5	4	4	1	3	5	32
250		5	5	5	4	4	1	3	4	31
300	1	5	5	5	4	4	1	3	4	31
350		1	5	5	4	4	1	3	4	30
400	1	5	5	5	4	4	1	3	Ą	31
450	1	5	5	5	4	4	ī	3	4	31
500	5	5	5	5	4	4	ī	3	4	31

Table 1.3.1 (2) Upper Meteorological Observation Frequency (Summer)

Note: Statistical period Sept. 10 - 19, 1987 '

Observation frequency with the captive sonde rising

Hour Month,day	••3••6••9••12••15••18••21••24
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	

Table 1.3.2 (1) Upper Meteorological Observation Result (Autumn)

Note: \bigcirc : Captive sonde used \triangle : Low sonde used

 \times : Measurement loss (measurement altitude 100 m or less) -: No measurement schedule

Table 1.3.2 (2) Upper Meteorological Observation Result (Autumn)

Hour	••3	• • 6	••	9	• •	12 •	• 15 •	• 18 •	• 21 •	• 24	All da
	·····	`							<u> </u>		
Surface	14	14	3	14	3	14	13	12	13	14	114
50	14	14	3	14	3	14	13	11	13	14	113
100	14	14	3	14	3	14	12	8	13	14	109
150	14	14	3	14	3	14	12	6	13	ĨĨ	107
200	14	14	3	14	3	13	11	5	13	$\tilde{1}\tilde{4}$	104
250	14	14	3	14	3	13	10	4	13	14	102
300	14	13	3	14	3	13	10	4	13	14	101
350	14	13	3	14	3	. 13	9	4	12	14	99
400	14	13	3	14	3	13	8	4	12	14	98
450	14	13	3	14	3	13	8	3	12	13	96
500	14	13	3	14	3	13	8	3	12	13	96

Note: Statistical period: Nov. 19 to Dec. 3, 1987 Observation frequency with the captive sonde rising

Hour Ionth,day	••3	• 6 • • 9 •	• 12 • • 15 •	• 18 • • 21 •	• 24
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Table 1.3.3 (1) Upper Meteorological Observation Result (Winter)

Note: (): Captive sonde used \triangle : Low sonde used

> X: Measurement loss (measurement altitude 100 m or less) -: No measurement schedule

Hour Ltitude M	•	• 3	٠	•	6	•	٠	9	•	•	12•	٠	15.•	Ŷ	18•	٠	21 •	٠	24	A11 d
Surface		7			7	2		7	2		7		7		7		7		7	60
50		6			6	2		7	2		6		3		4		6		5	47
100		6			7	2		7	2		6		3		1 '		5		5	44
150		6			7	2		7	2		6		3		1		5		5	44
200		6			7	2		7	2		6		3		1		5		5	44
250		6			7	2		7	2		6		3		1		4		5	43
300		6			7	2		7	2		6		3		1		3		5	42
350		6			7	2		7	2		5		3		0		3		5	40
400		ē			7	2		7	2		4		3		0		3		5	39
450	ł	Ğ.			7	2		7	2		4		3		0		3		5	39
500		Ğ			7	2		7	$-\overline{2}$		4		3		0		3		5	39

Table 1 3.3 (2) Upper Meteorological Observation Frequency (Winter)

Note: Statistical period: Feb. 17 to 24, 1988 Observation frequency with the captive sonde rising

Hour Month,day	•	• 3	• •	6	• •	9	• •	12	• •	15•	• 18 •	• 21 •	• 24
5 20 21 22 23 24 25 26 27		10000000		-0000x00	0 0 0	10000000	0	10000000		10000x0x	- ××0×××	- 0××××××	000000x 1

Table 1 3.4 (1) Upper Meteorological Observation Frequency (Spring)

Note: (): Captive sonde used (): Low sonde used

X: Measurement loss (measurement altitude 100 m or less)

- : No measurement schedule

Hour											
ltitude m	• • 3	••6	•	• 9	• •	12 •	• 15 •	• 18 •	• 21 •	• 24	All da
Surface	6	6	2	7	2	7	7	7	7	7	58
50	7	6	3	7	2	7	5	1	1	6	45
100	7	6	3	7	2.	7	5	1	1	6	45
150	7	6	3	7	2	7	4	1	1	6	44
200	7	6	3	7	2	7	3	0	1	6	42
250	7	6	3	7	2	- 7	2	0	1	6	41
300	7	6	3	7	2	7	2	0	1	6	41
350	7	6	3	7	2	7	1	0	1	6	40
400	7	6	3	7	2	7	1	• 0	0	6	39
450	7	6	3	7	2	7	1	0	0	6	39
500	7	6	3	7	2	6	1	0	0	6	38

Table 1 3.4 (2) Upper Meteorological Observation Frequency (Spring)

Note: Statistical period: May 20 to 27, 1988

Observation frequency with the captive sonde rising

Table 1.3.5 Upper Meteorological Observation Frequency (Year)

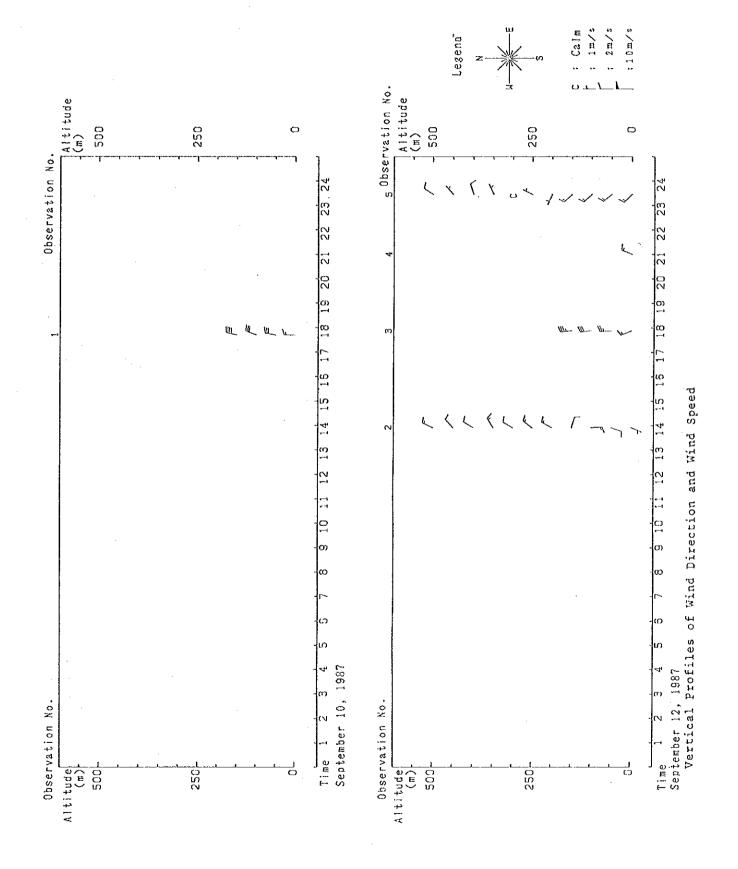
				-				_		
Hour altitude	••3	• • 6	• • 9	• •	12 •	• 15 •	• 18 •	• 21 •	• 24	All day
Surface 50	32 32 32	32 30 32	7 33 8 31 8 31	7 7 7	32 31 31	32 25 25	34 19 13	33 23 22	33 30 30	276 236 231
100 150 200	32 32 32	32 32 32	8 31 8 31	7 7 7	31 30	24 21	11 7	21 21	30 30	227 217
250 300 350	32 32 31	32 31 31	8 31 8 31 8 31	7 7 7	30 30 29	19 19 17	6 6 5	20 19 18	29 29 29	214 212 206
400 450	31 32	31 31	8 31 8 31	7 7 7	28 28	16 16	5 4	17 17	29 28	203 202
500	31	31	8 31	7	27	16	4	17	28	200

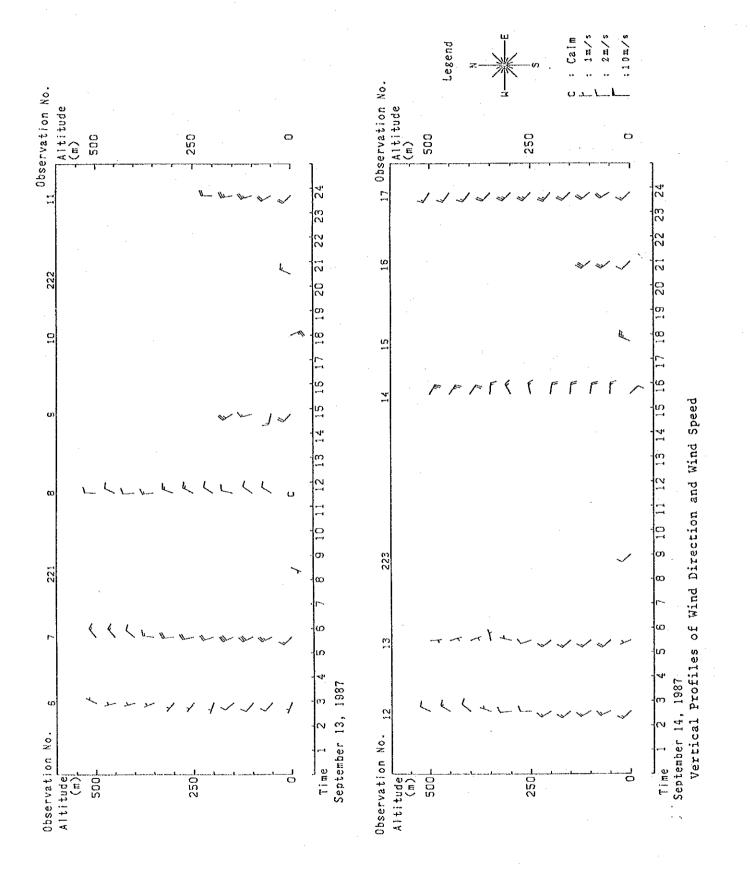
Note: Statistical period: Sep. 10, 1987 to May 27, 1988

Observation frequency with the captive sonde rising

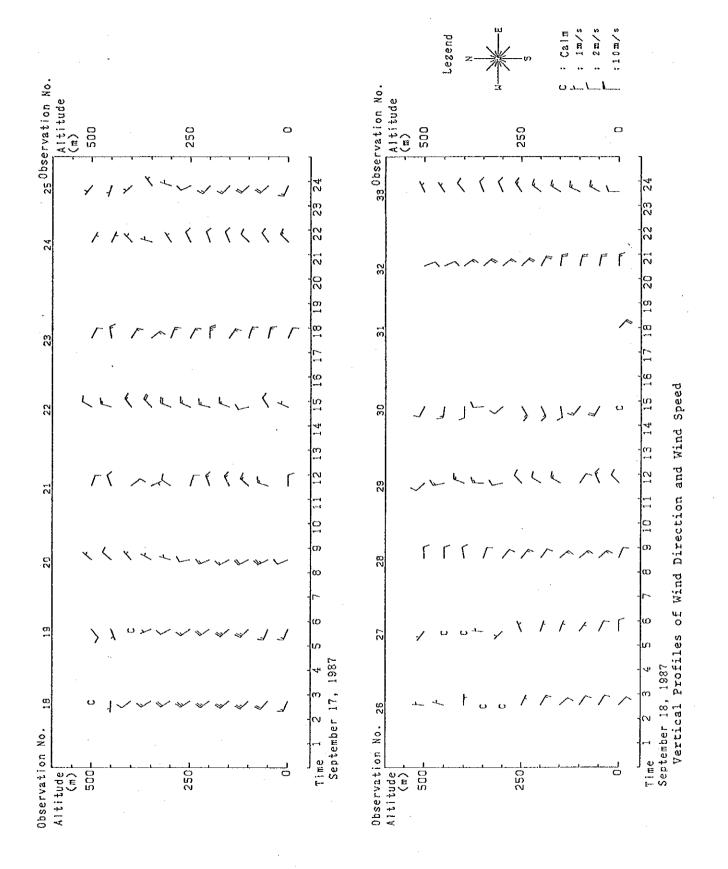
1.3.2 Vertical Profiles of Wind Direction and Wind Speed

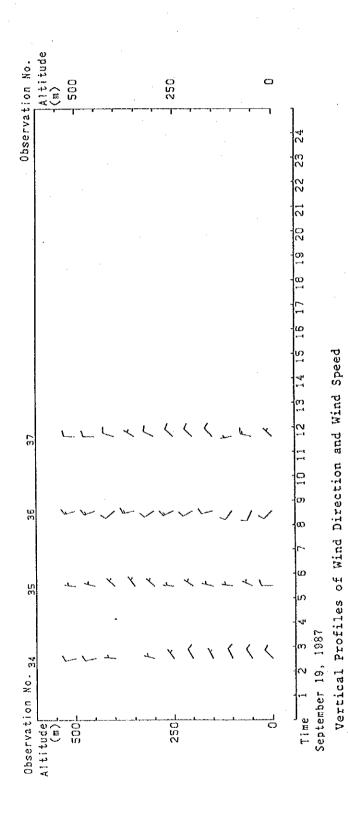
Vertical profiles of wind direction and wind speed are shown in the following Tables.

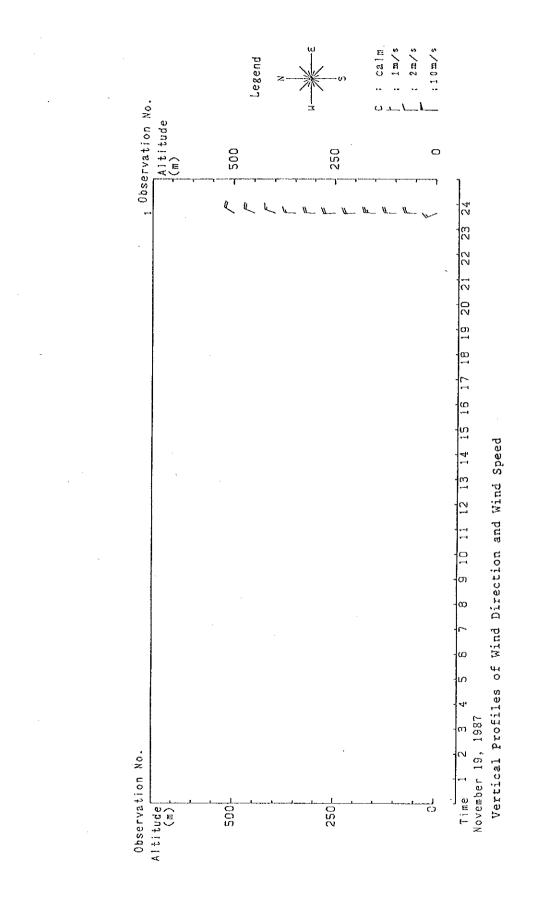


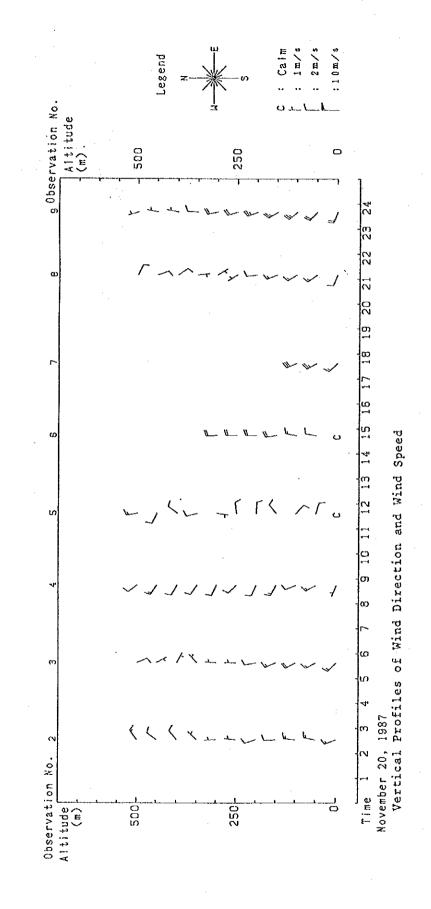


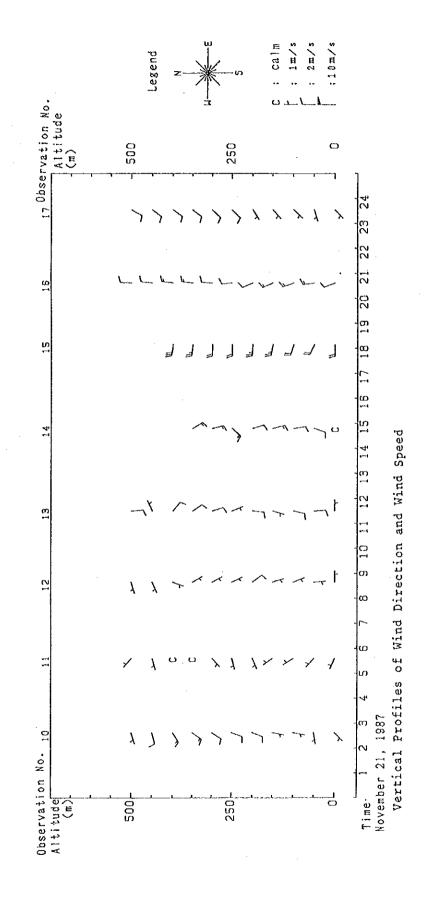
1r-44

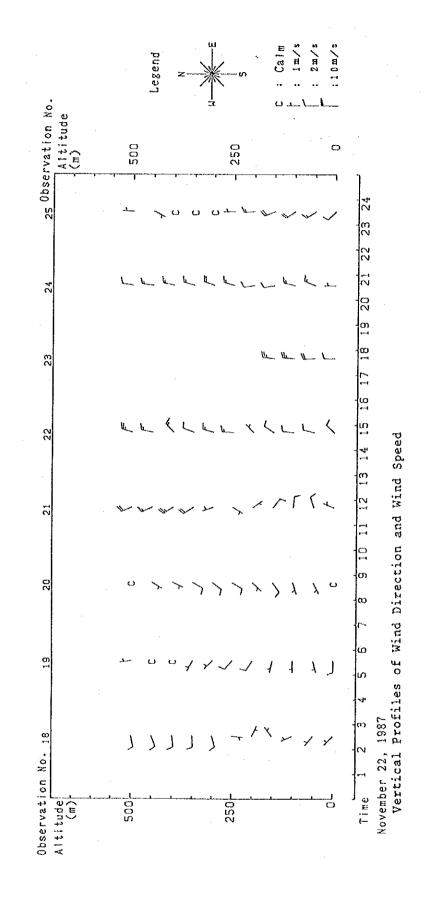


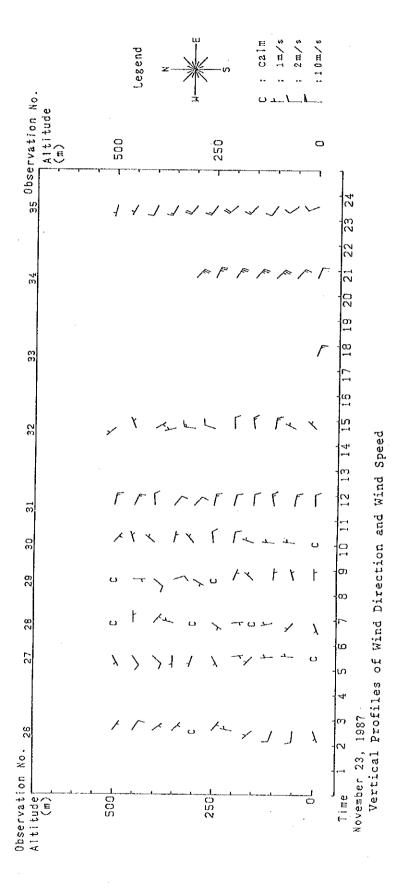


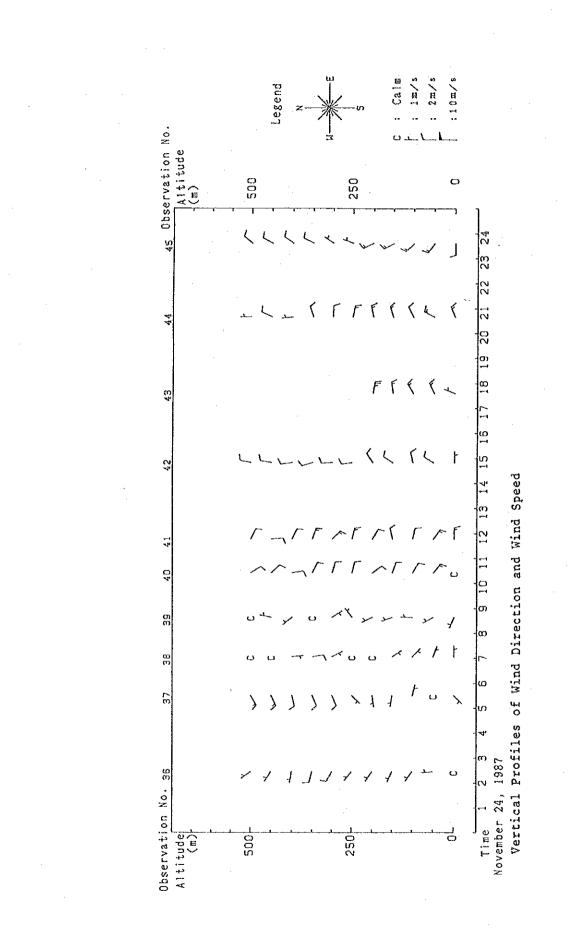
Legend N 

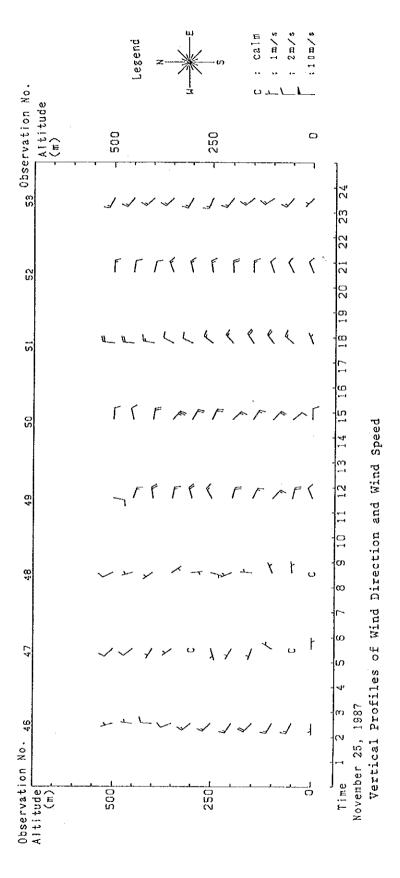


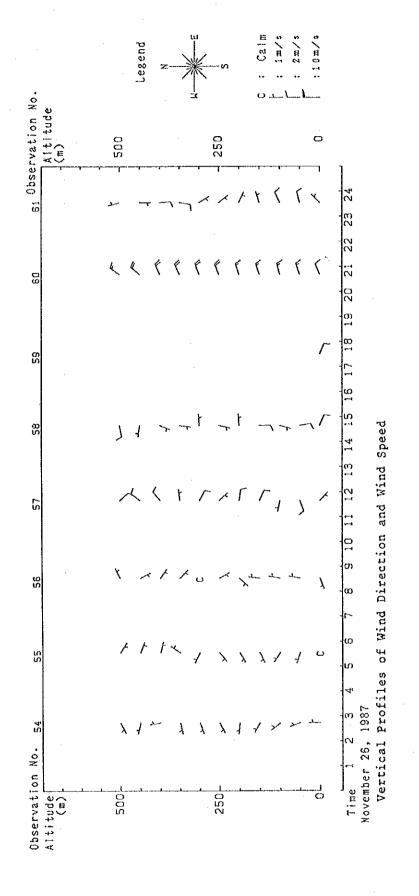


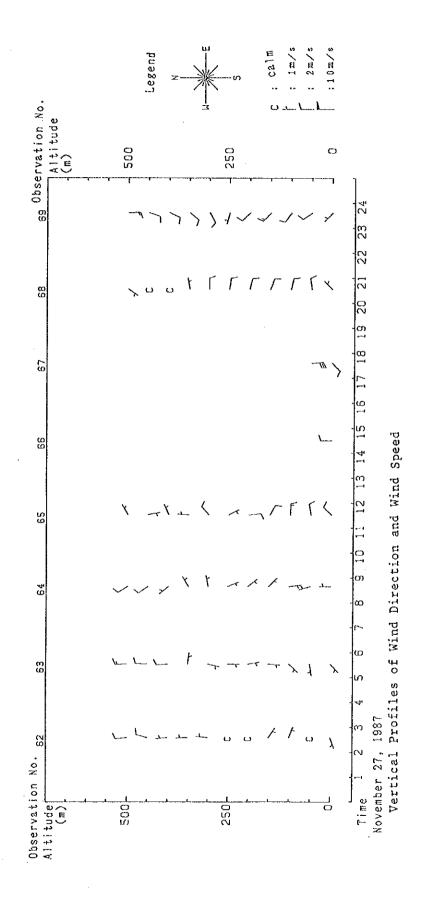




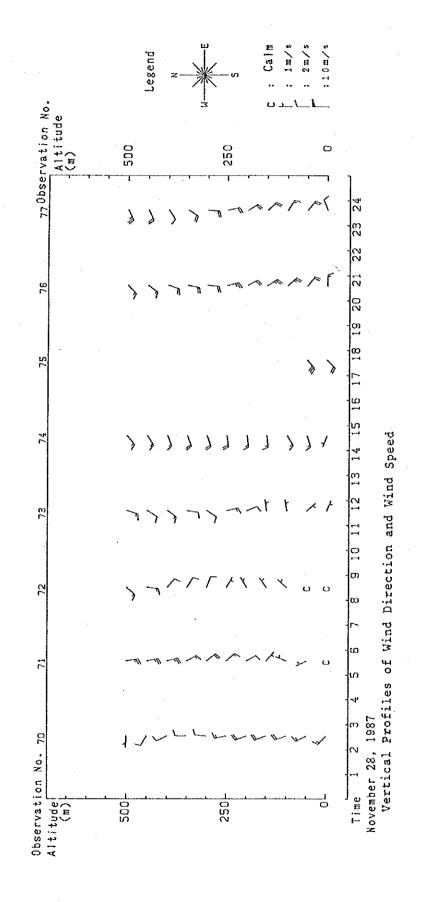


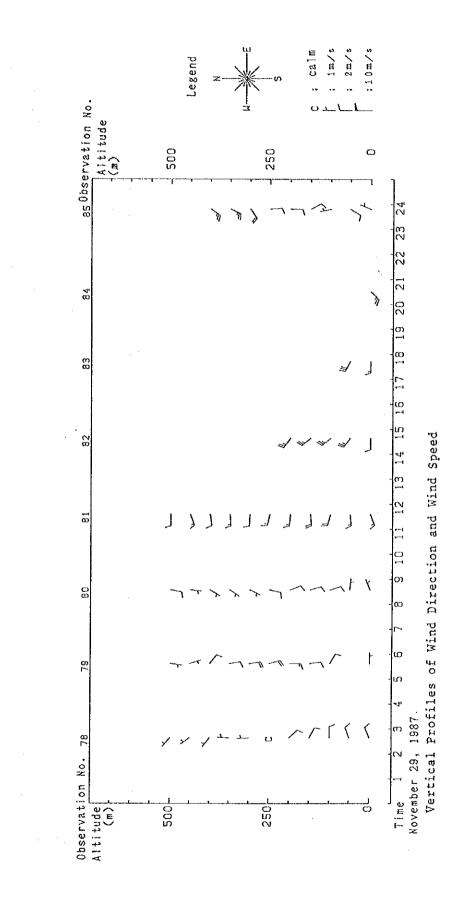


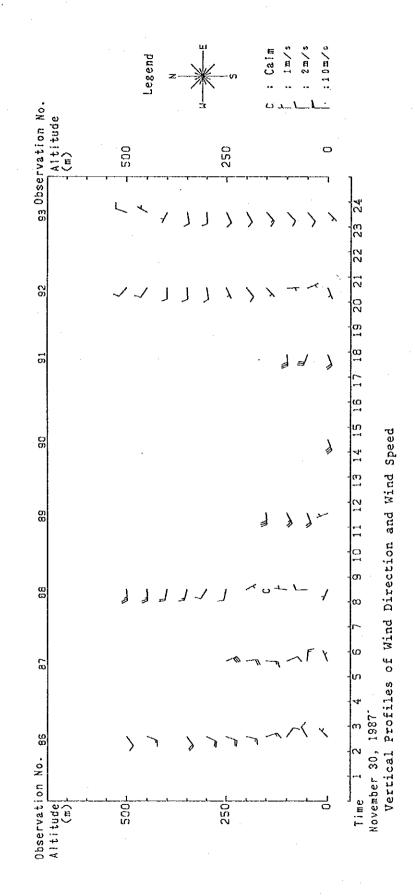




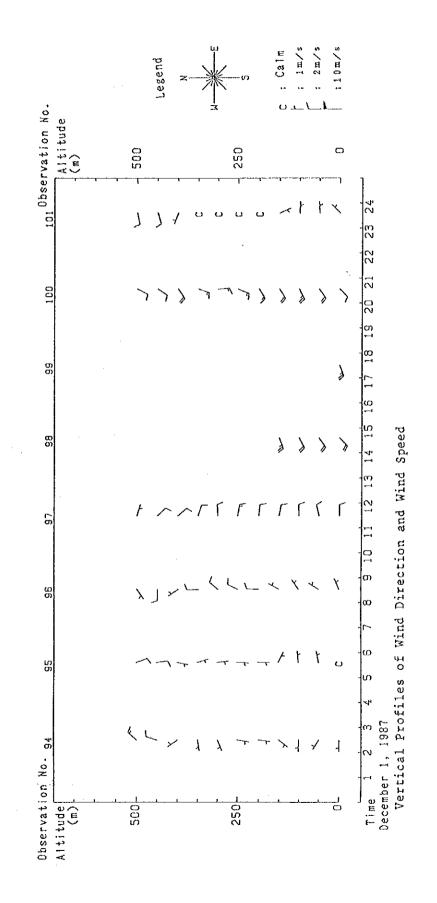


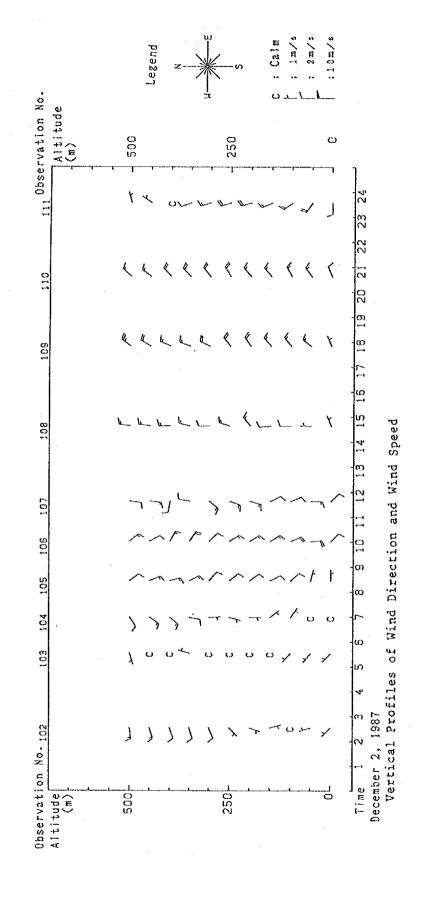


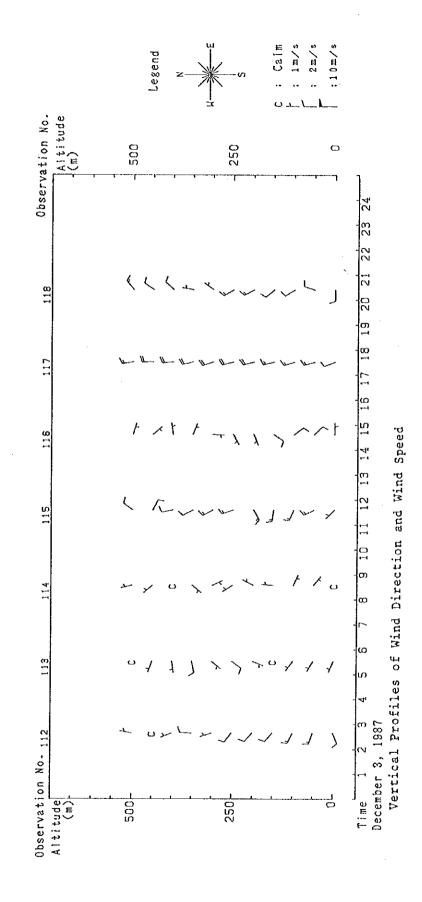




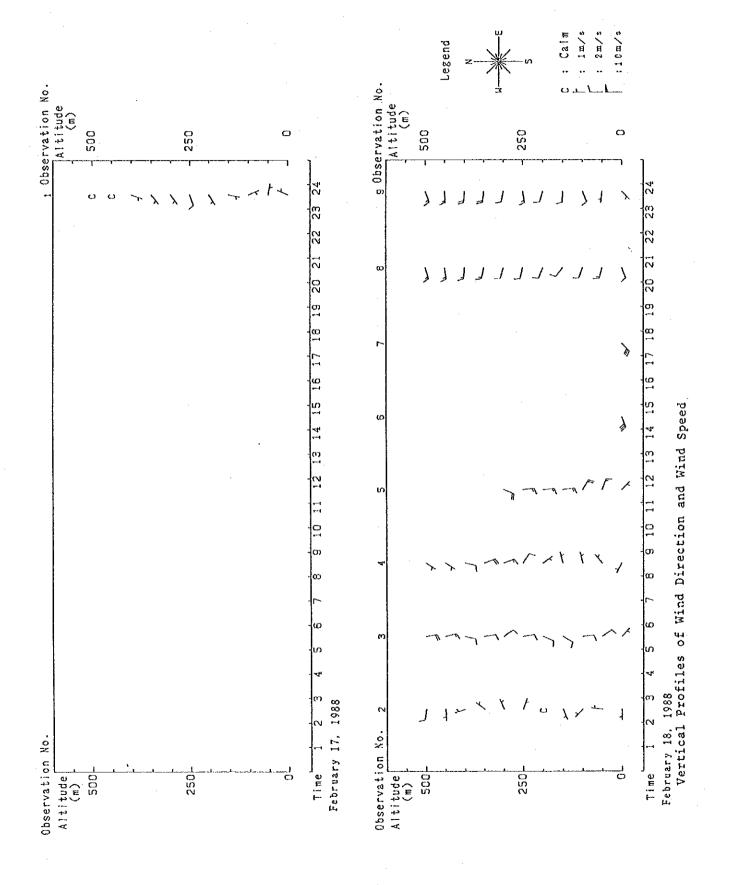
AP--58





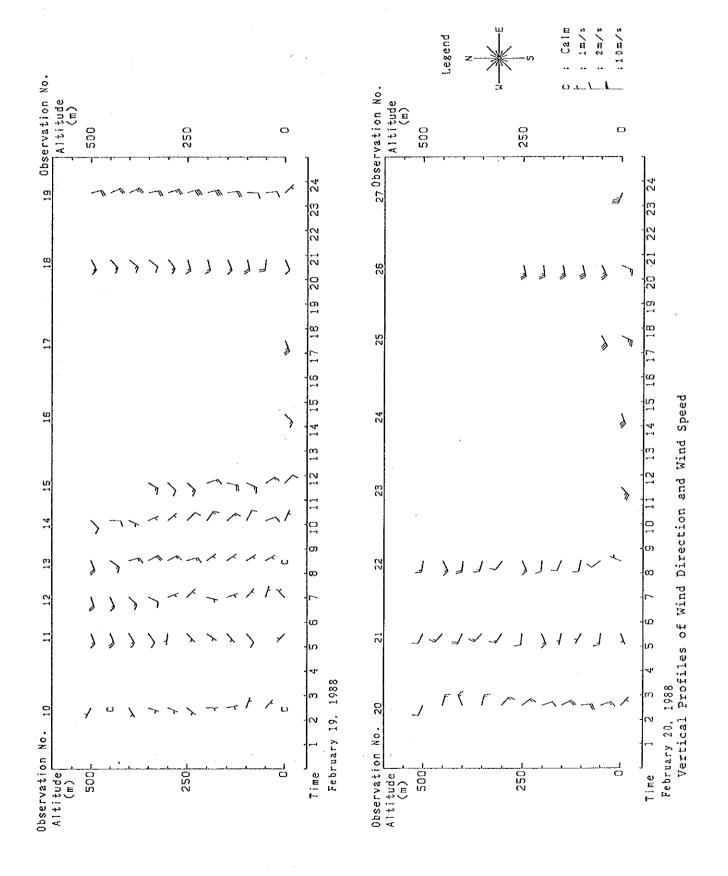




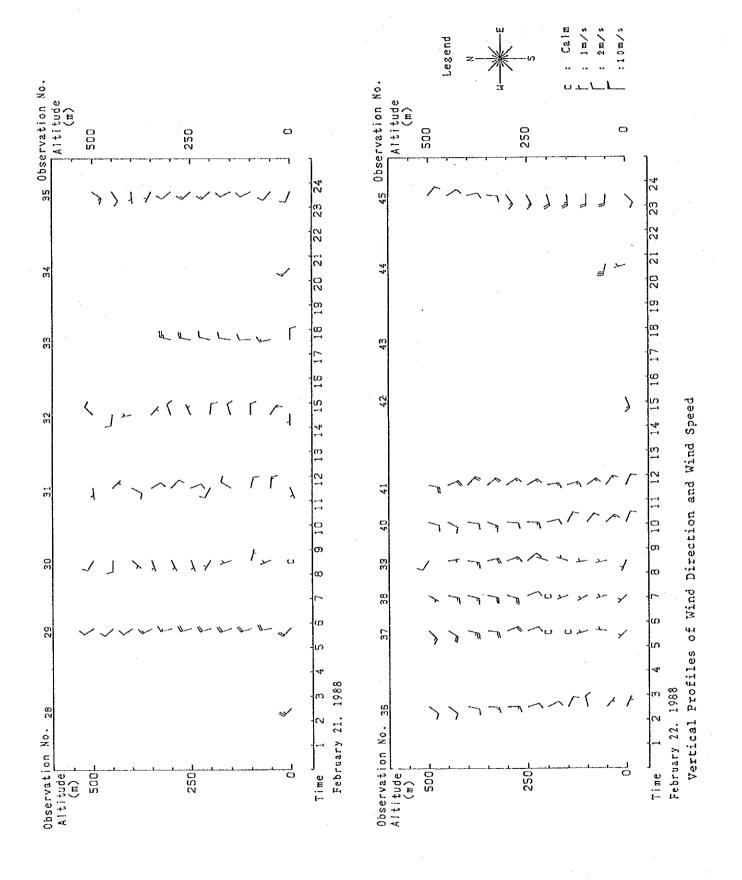


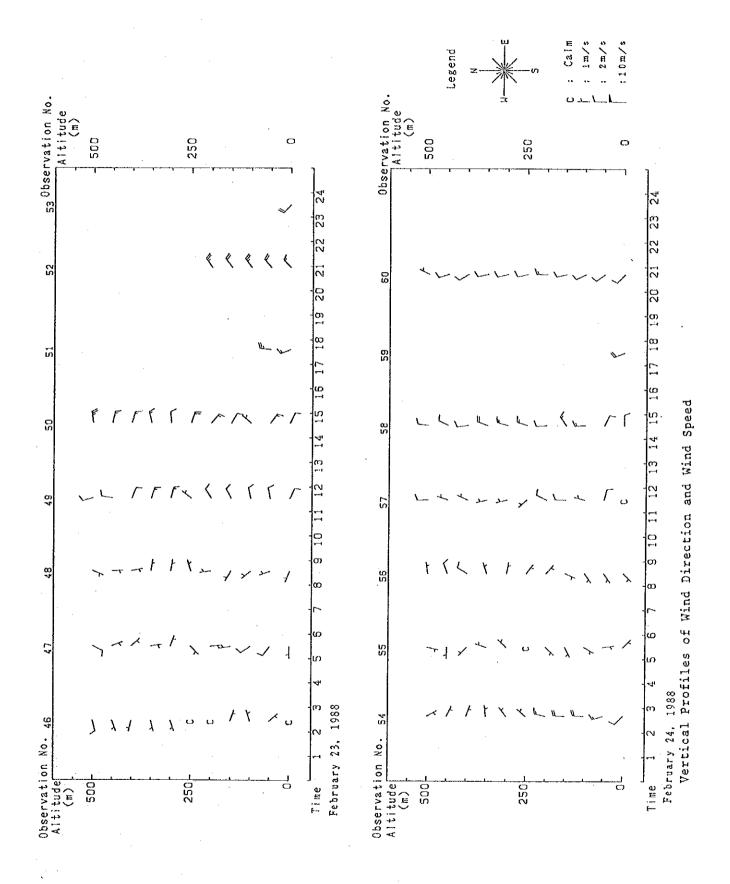
AP-62

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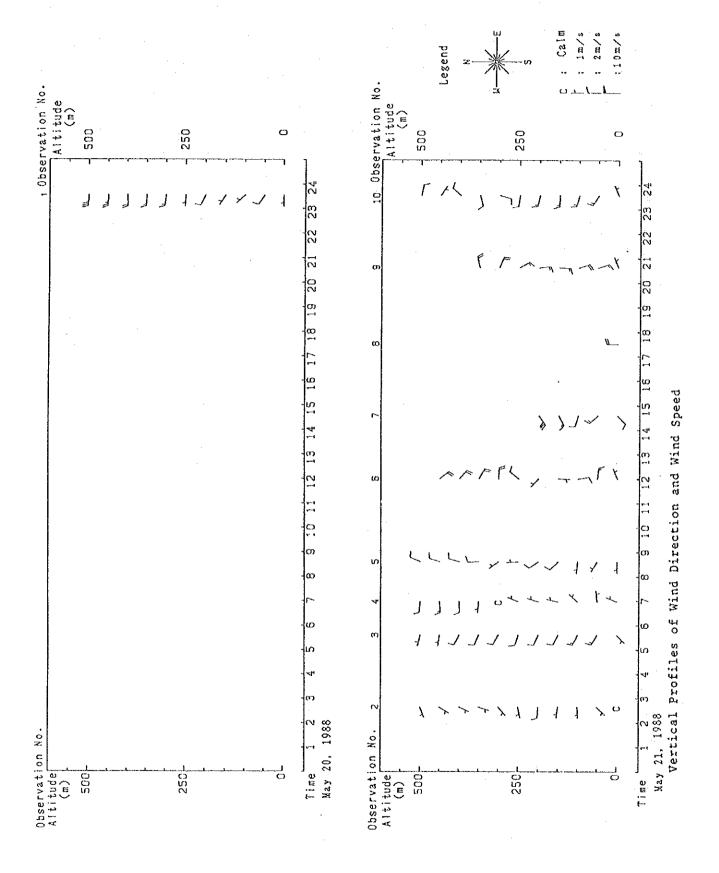


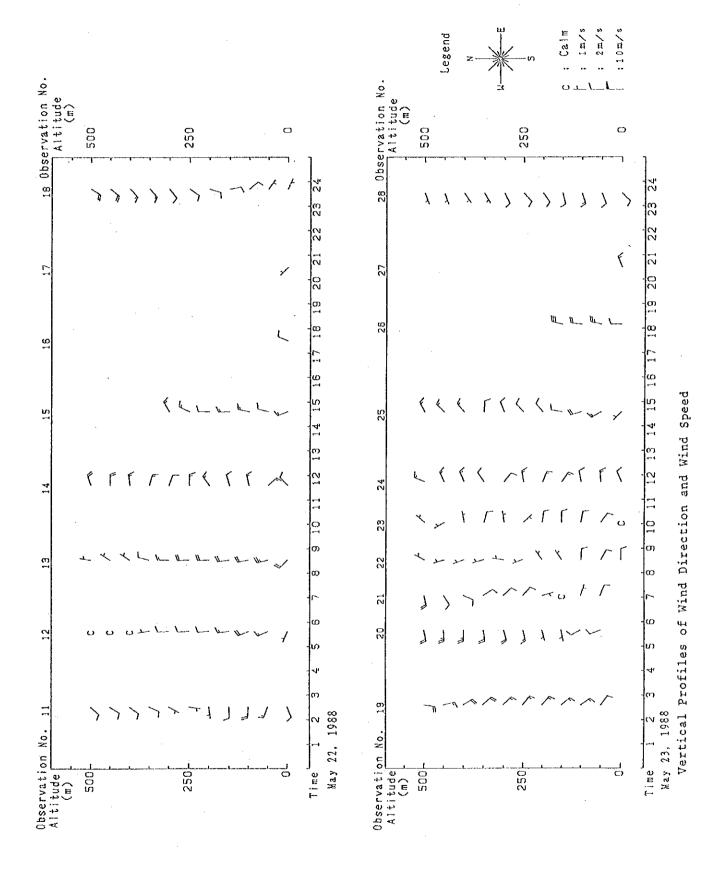
AP--63



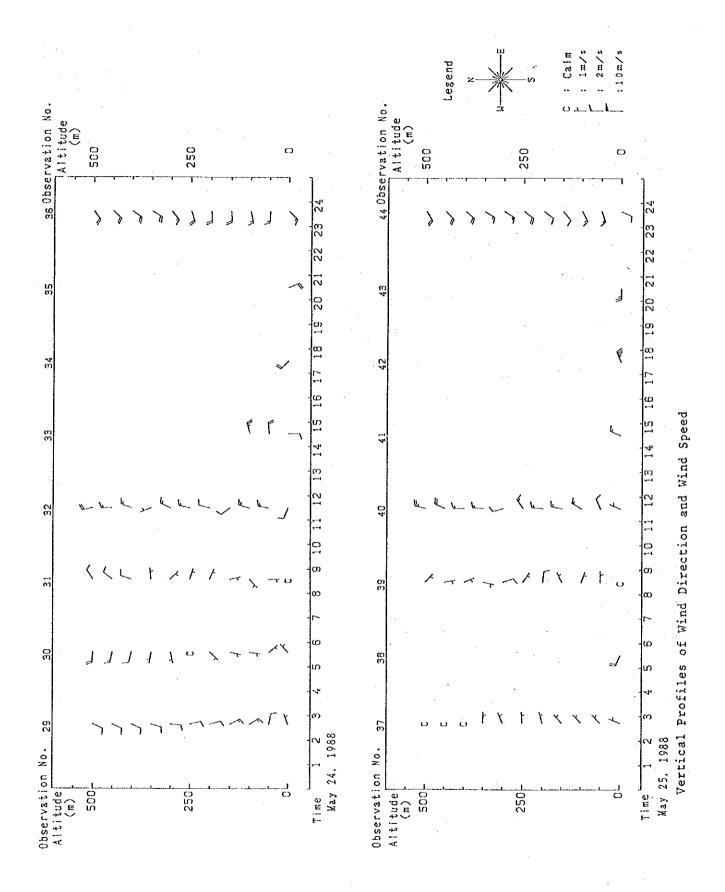


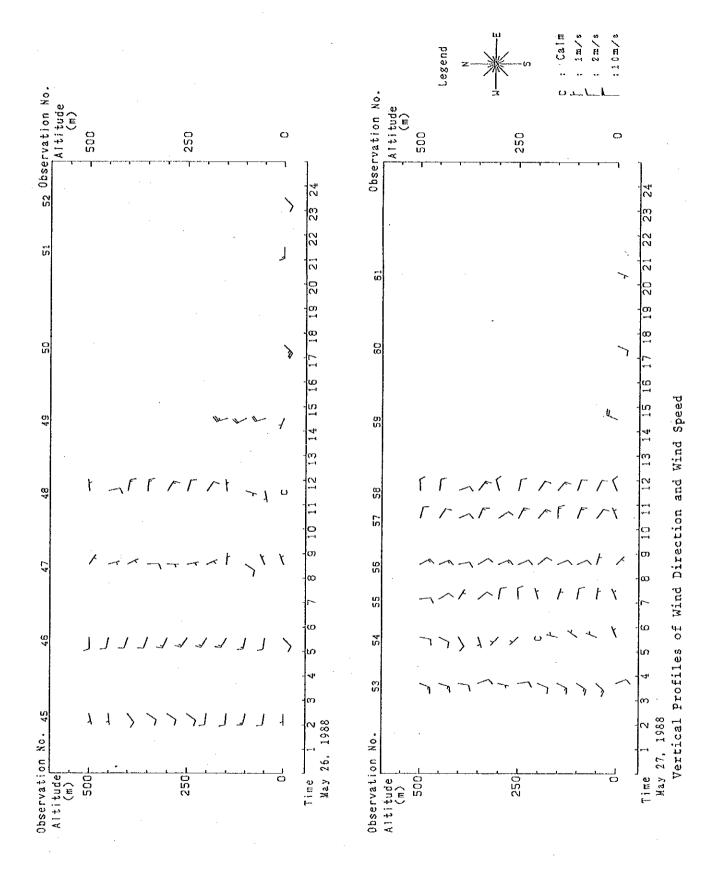
AP-65





AP--67



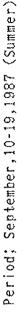




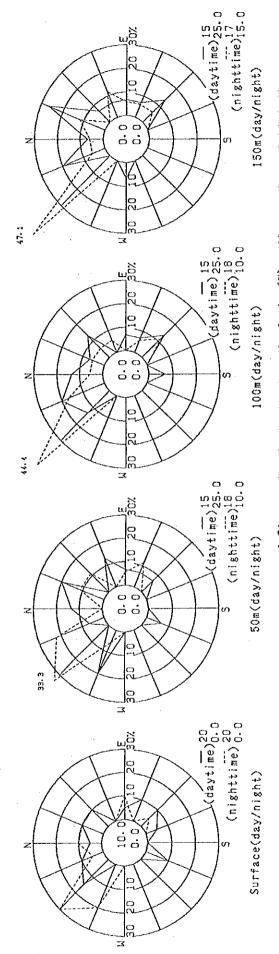
1.3.3 Wind Rose by Various Heights

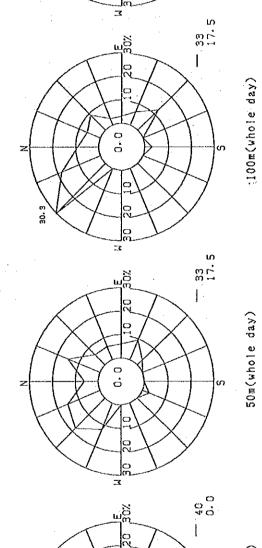
Wind roses by various heights are shown in the following Figures.





* Figures in circle denote calm factor(%) ; figures down right indicate observation frequency and non-observation ratio(%) * Day/night time zone : daytime=7:00 to 18:00 ; nighttime=I9:00 to 6:00





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. '150m(whole day)

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30% 30%

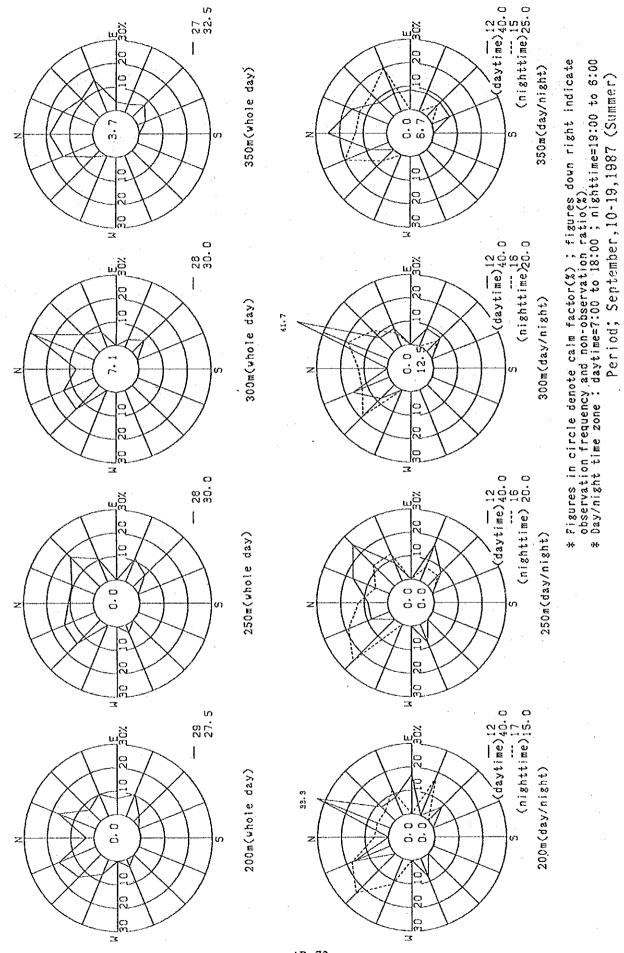
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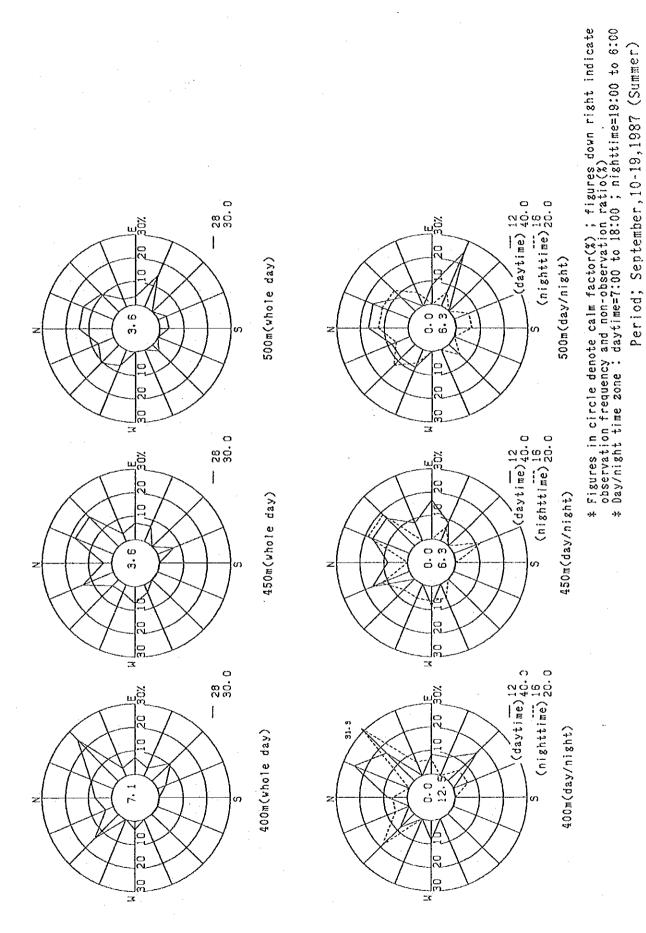
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Surface(whole day)

AP-71

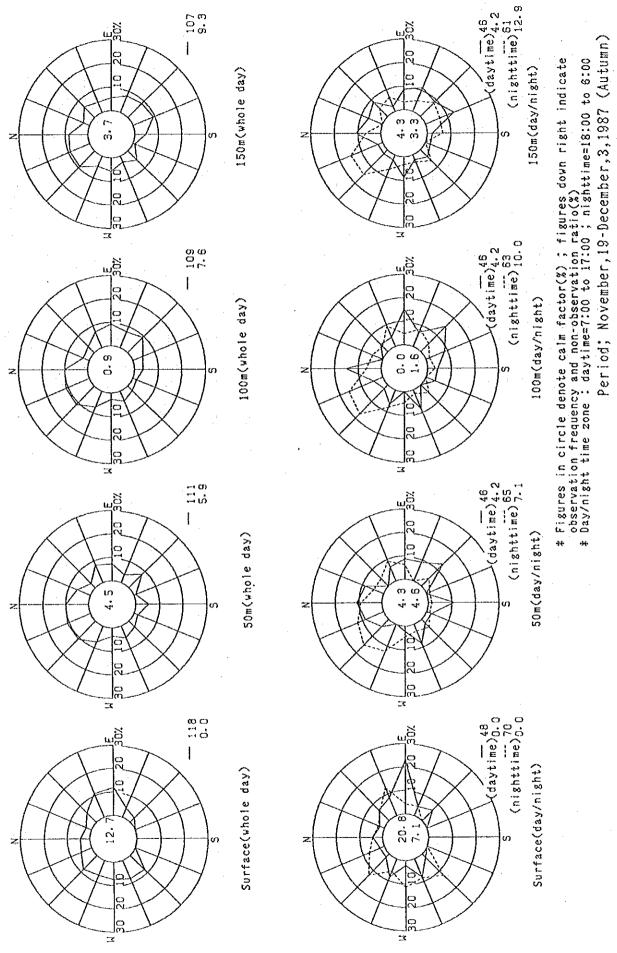


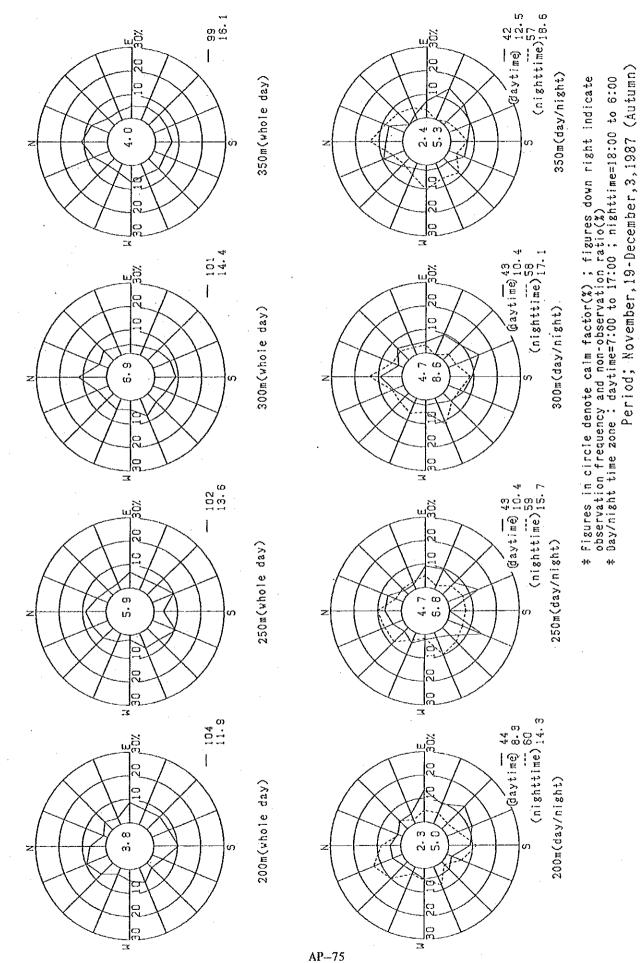
Wind Rose at Various Heights

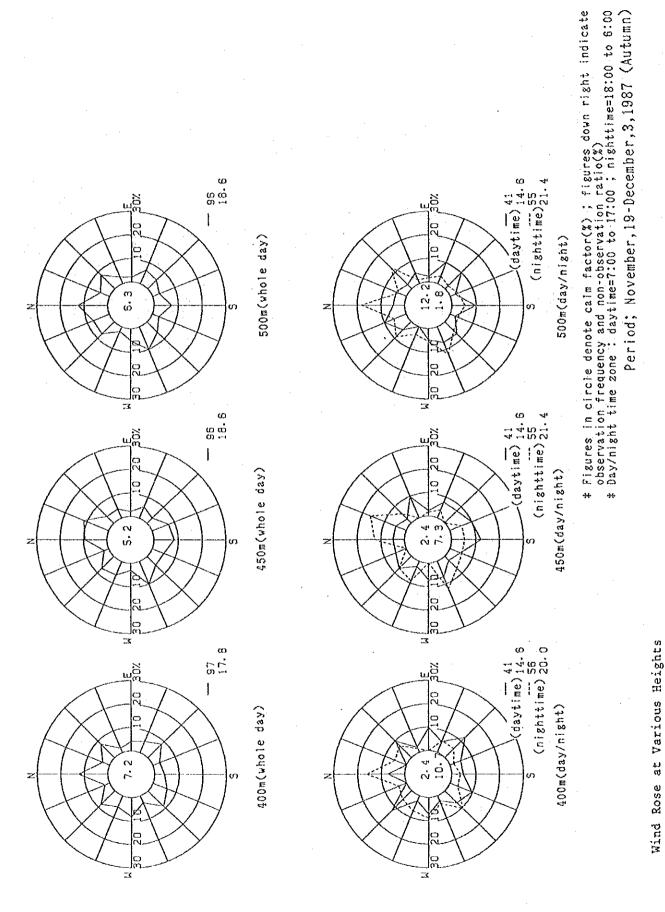


Wind Rose at Various Heights

AP-73

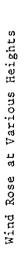


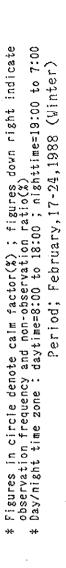


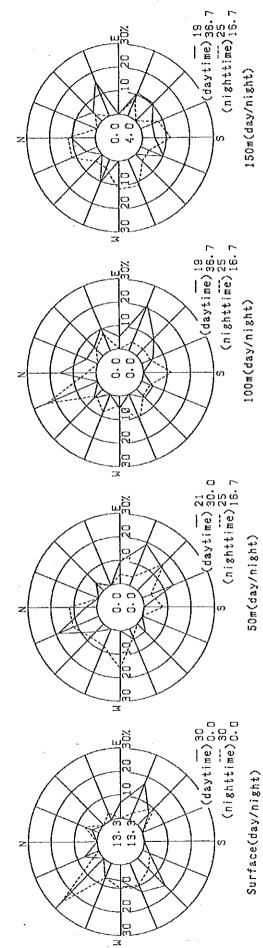


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50m(whole day)

Surface(whole day)

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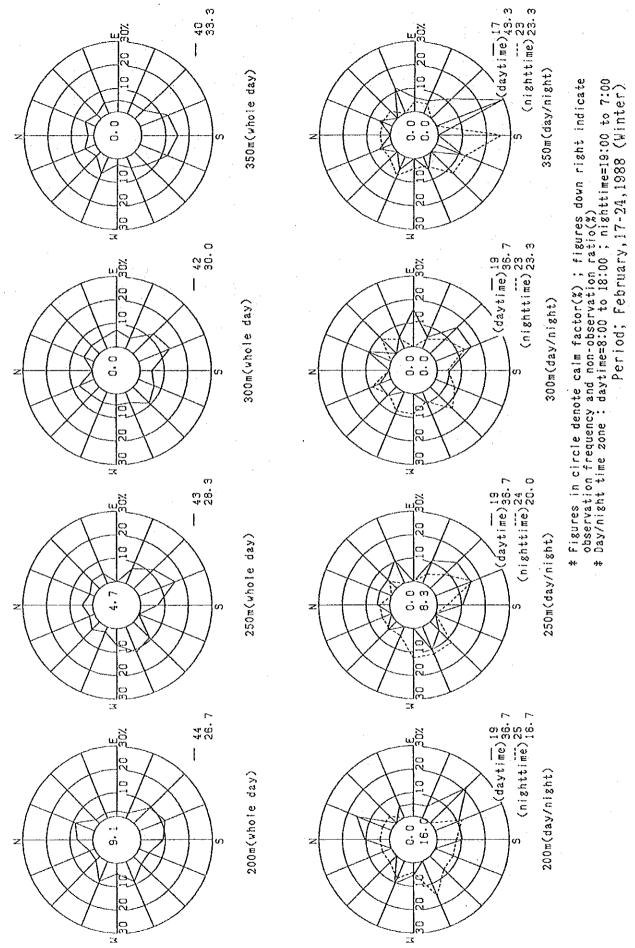
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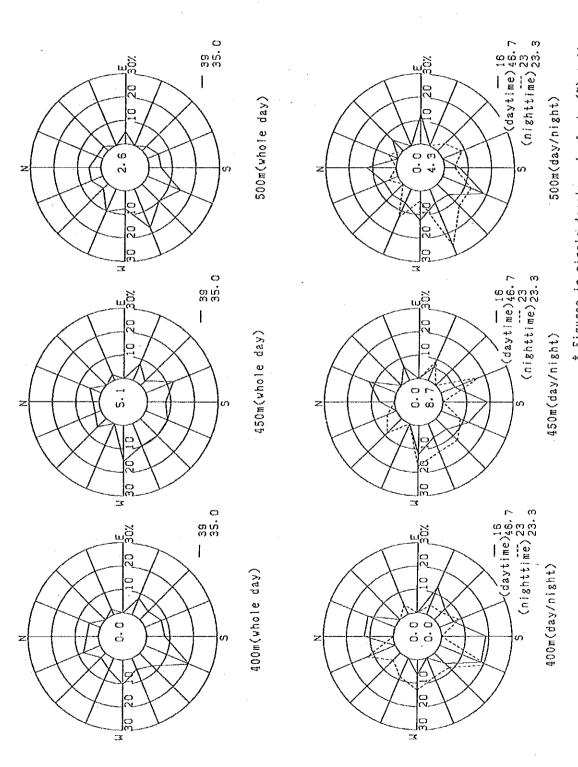
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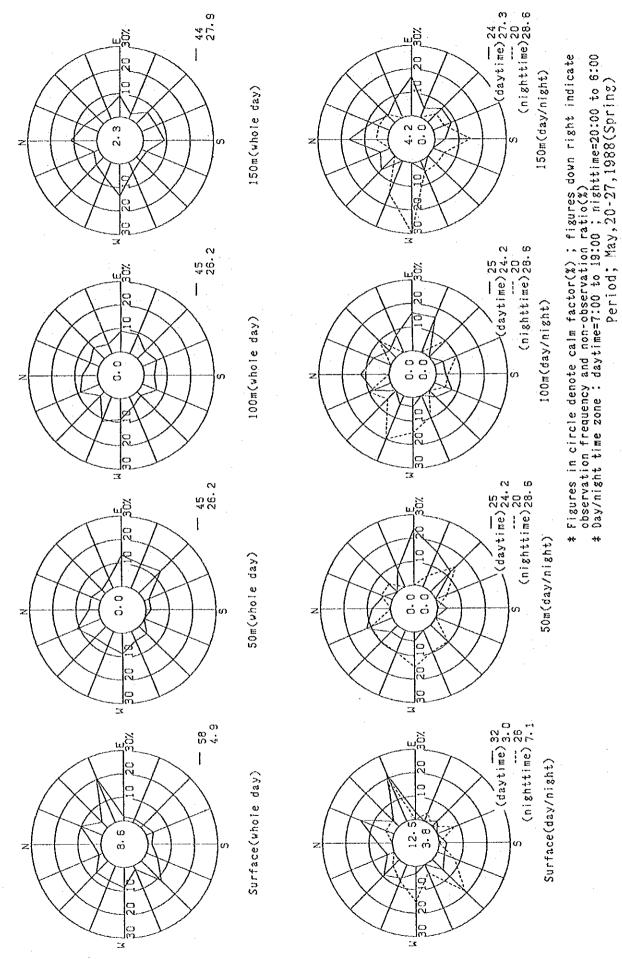
AP--77

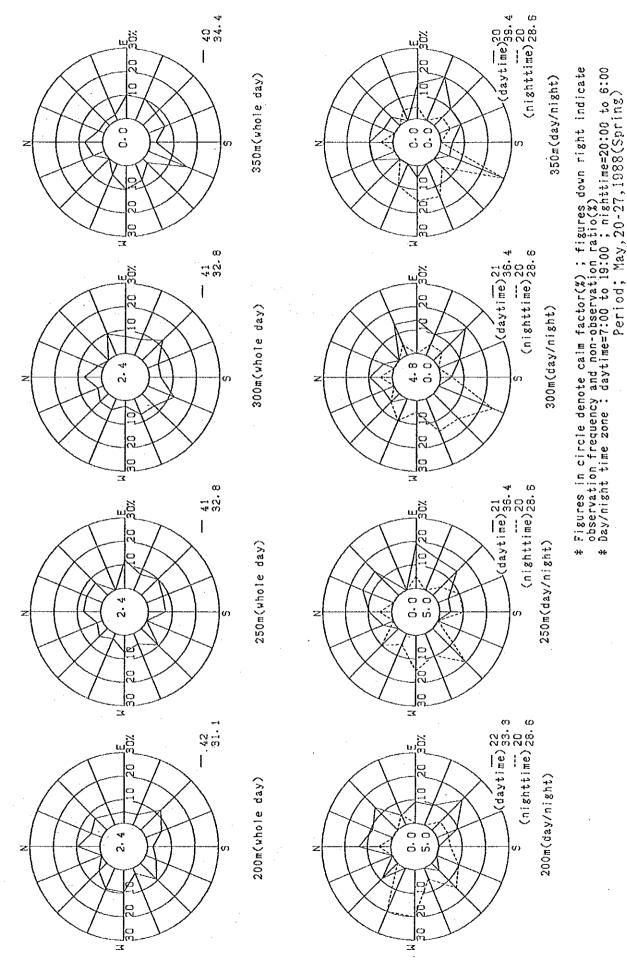


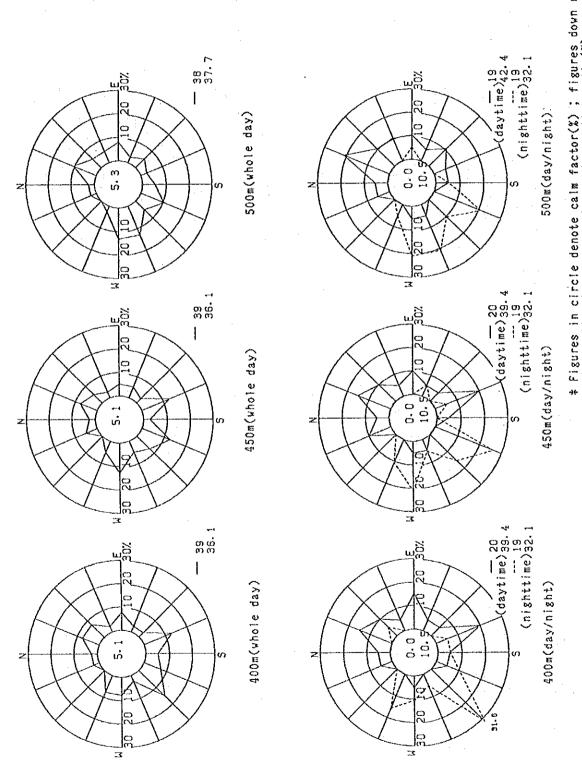


e . uaytime=s.uu to 18:00 ; nighttime=19:00 to 7:00
Period; February,17-24,1988 (Winter)

* Figures in circle denote calm factor(%); figures down right indicate observation frequency and non-observation ratio(%) * Day/night time zone : daytime=8:00 to 18:00; nighttime=19:00 to 7:00







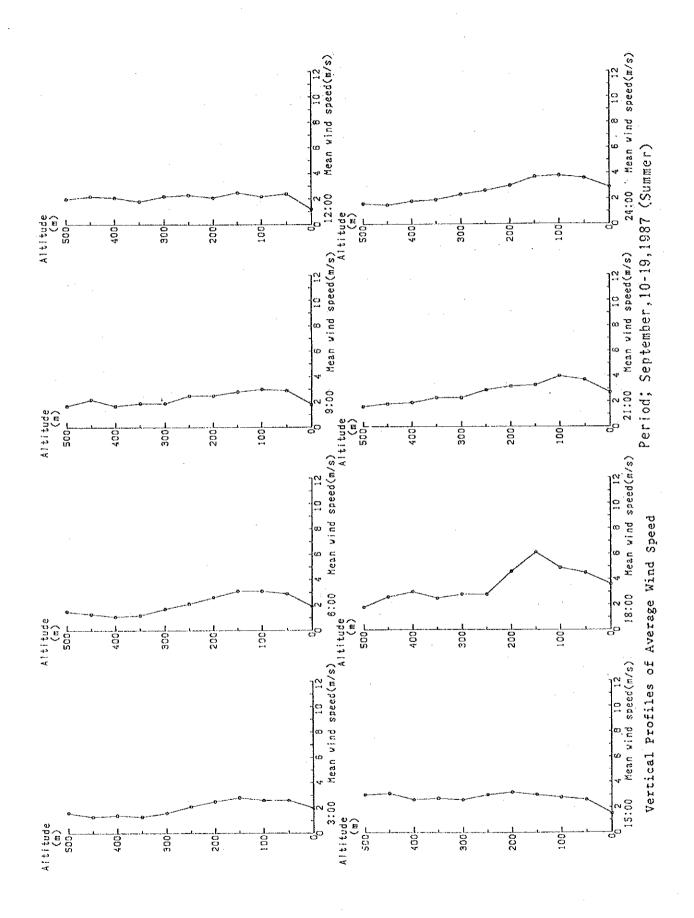
Wind Rose at Various Heights

* Figures in circle denote calm factor(%) ; figures down right indicate observation frequency and non-observation ratio(%) * Day/night time zone : daytime=7:00 to 19:00 ; nighttime=20:00 to 6:00 Period; May, 20-27,1988(Spring)

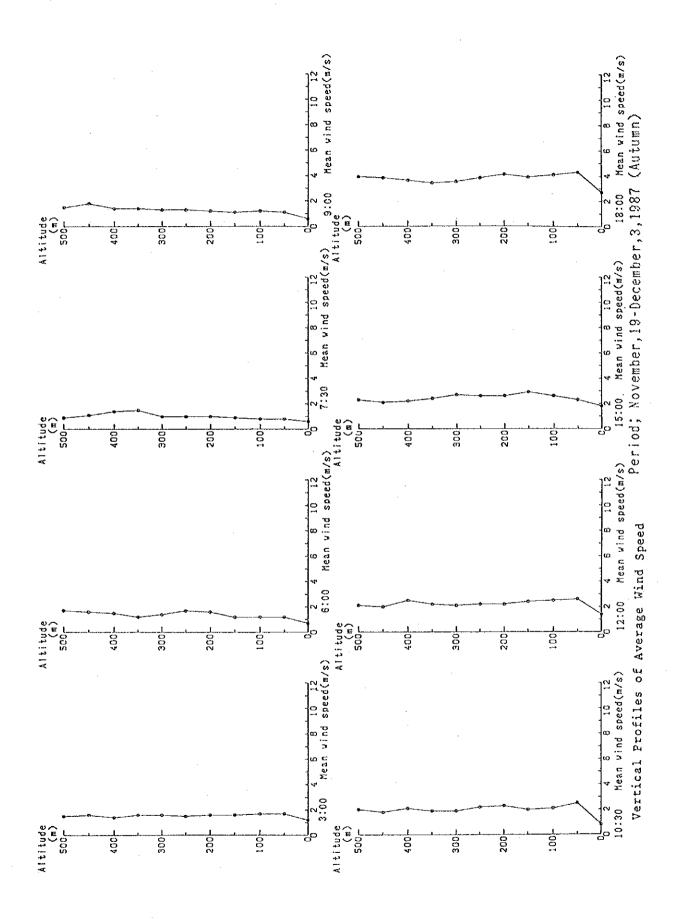
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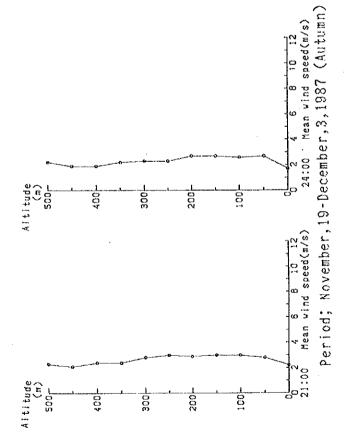
1.3.4 Vertical Profiles of Average Wind Speed

Vertical profiles of average wind speed are shown in the following Figures.

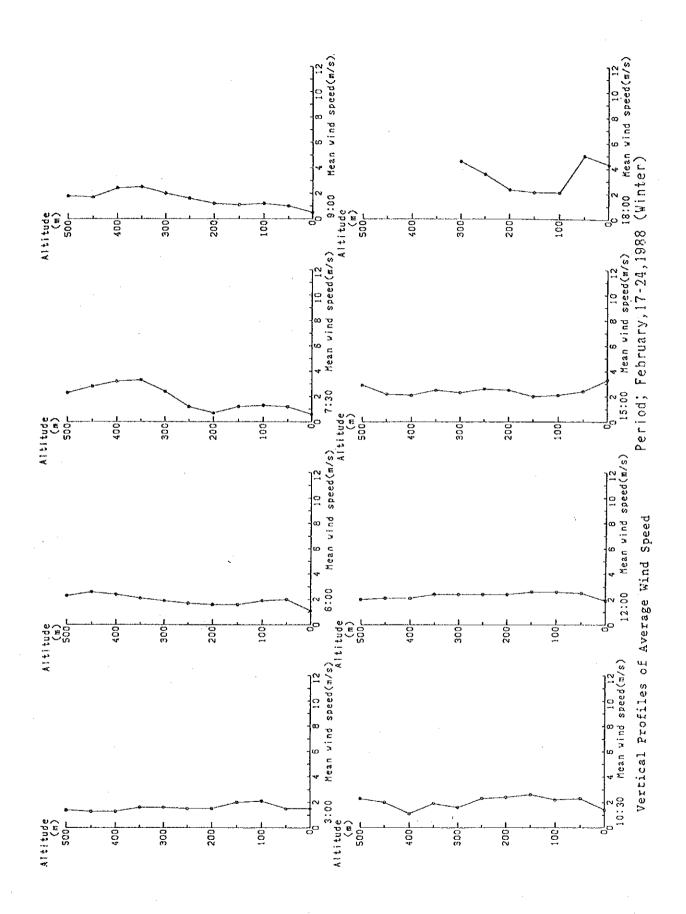


AP--84

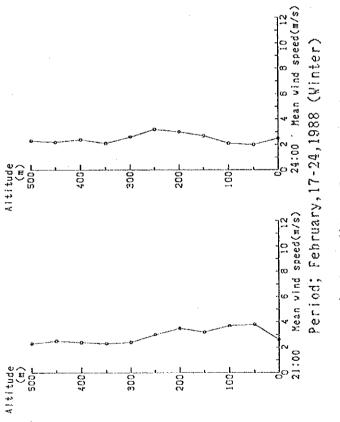




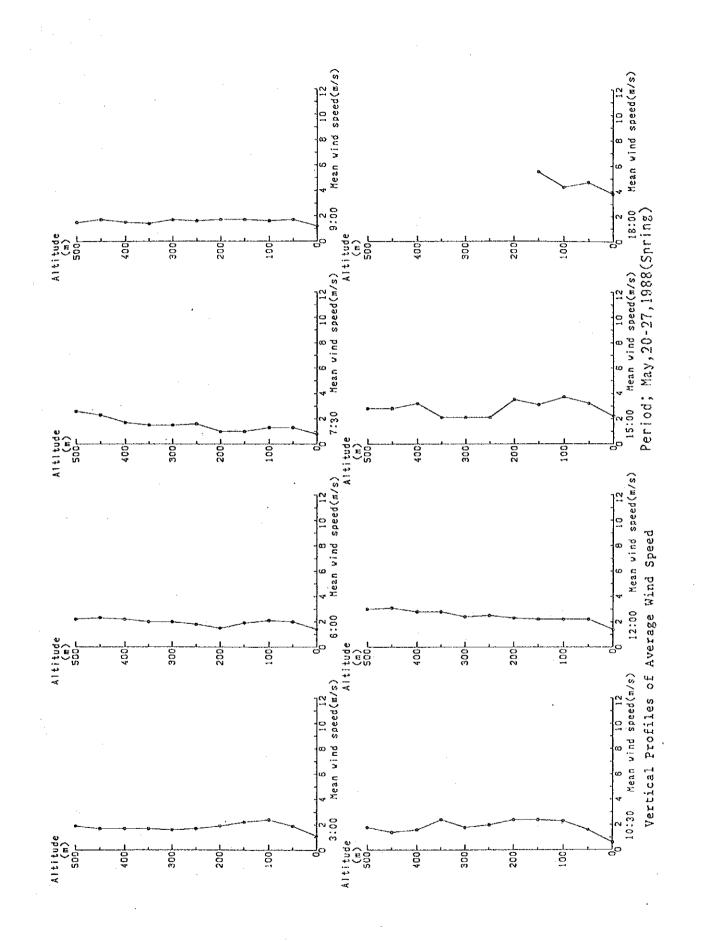




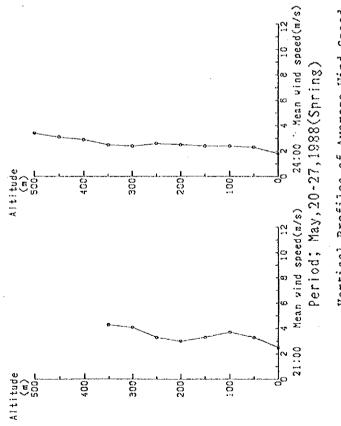
AP---87

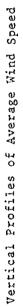


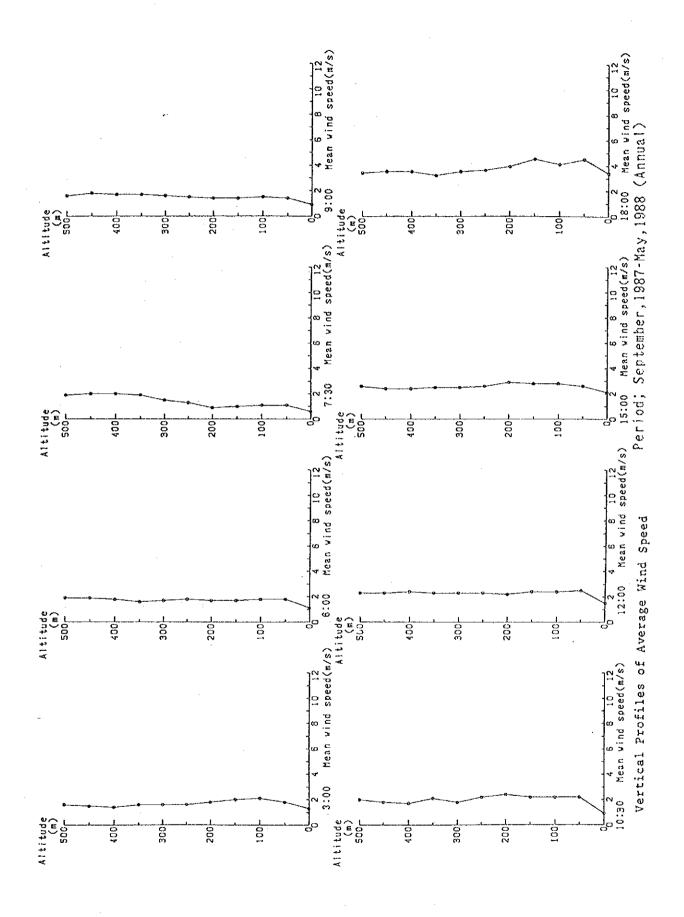




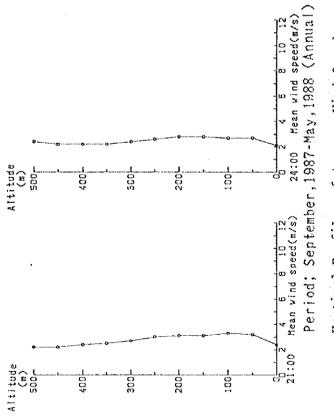
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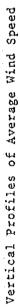






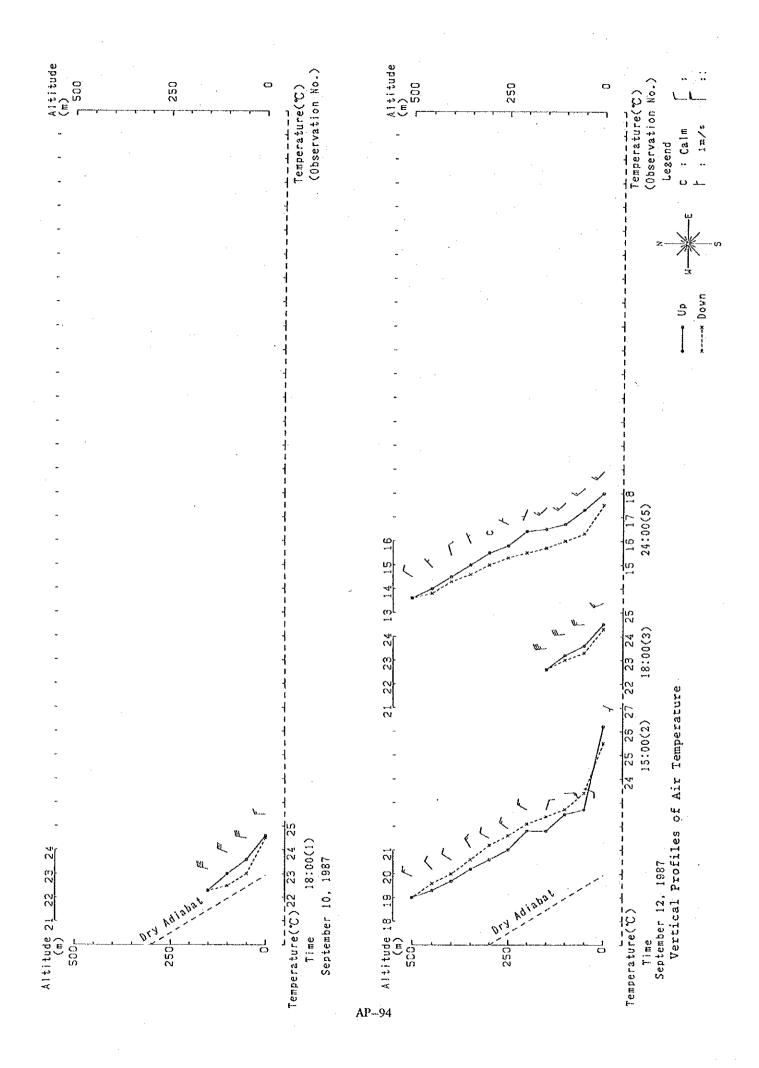
AP-91

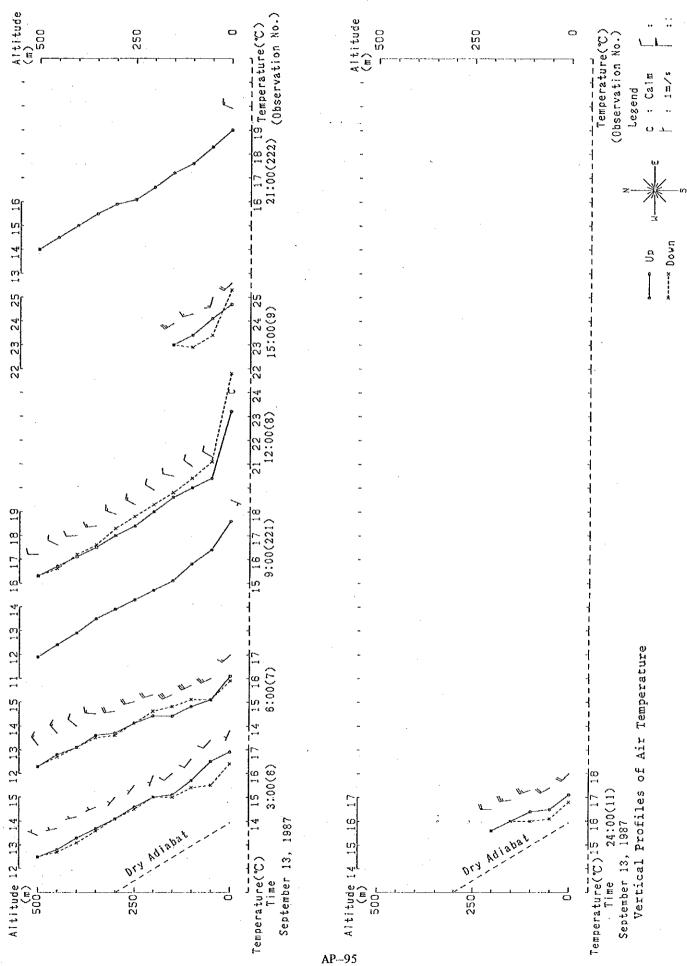


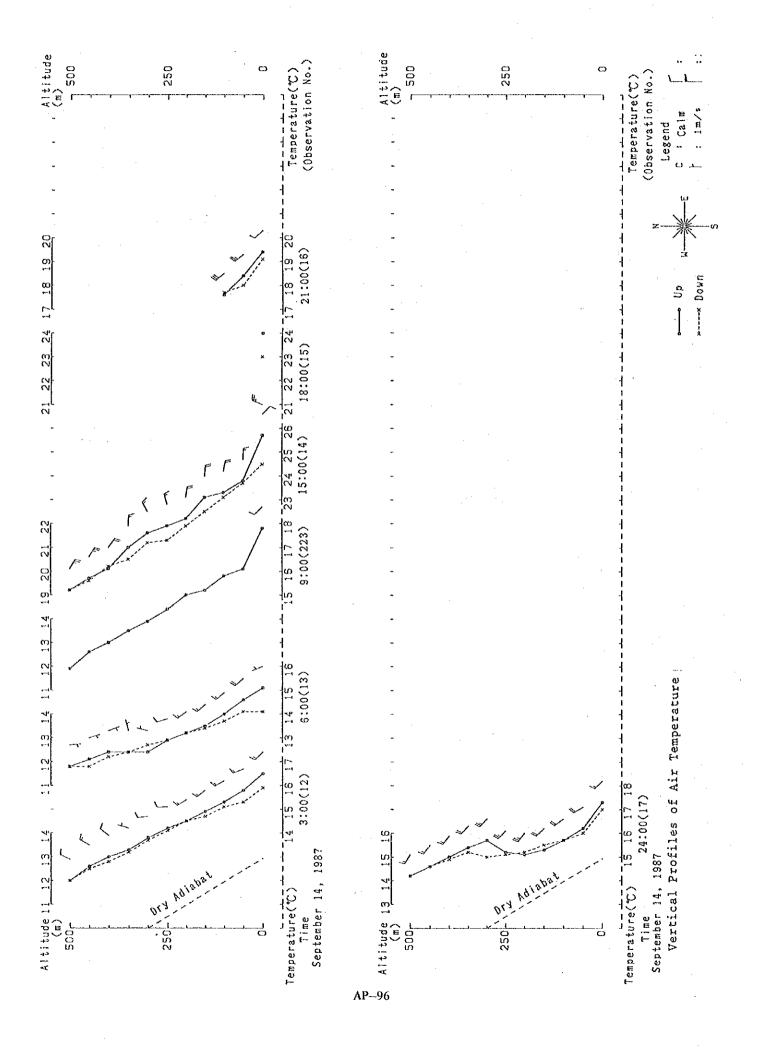


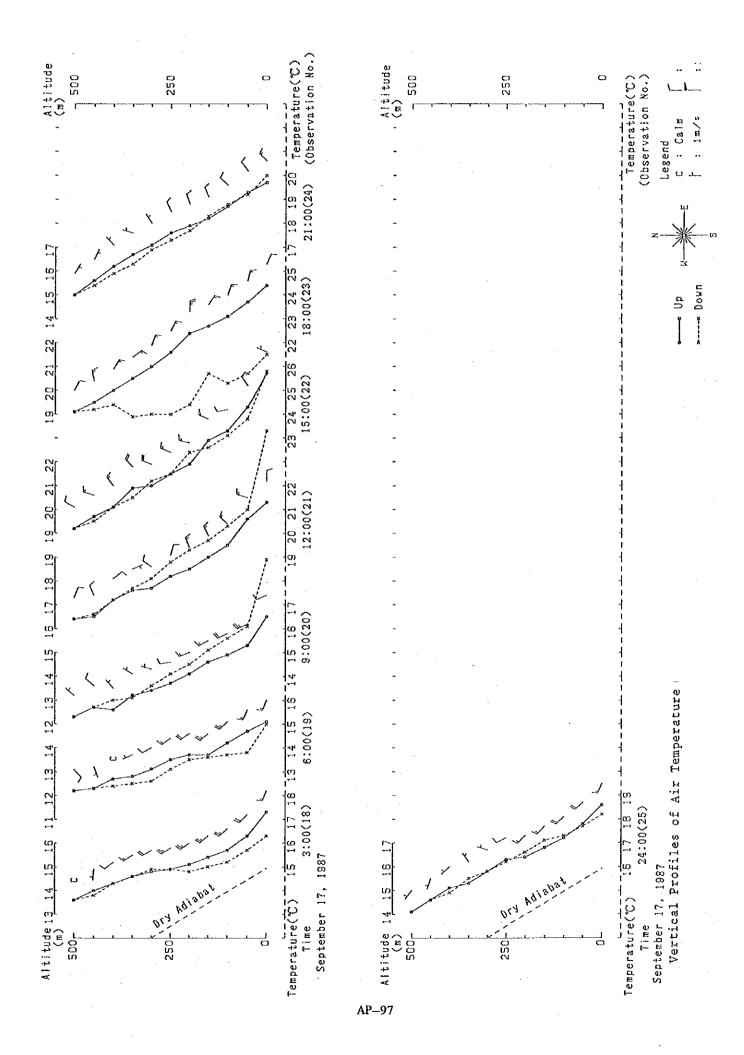
1.3.5 Vertical Profiles of Air Temperature

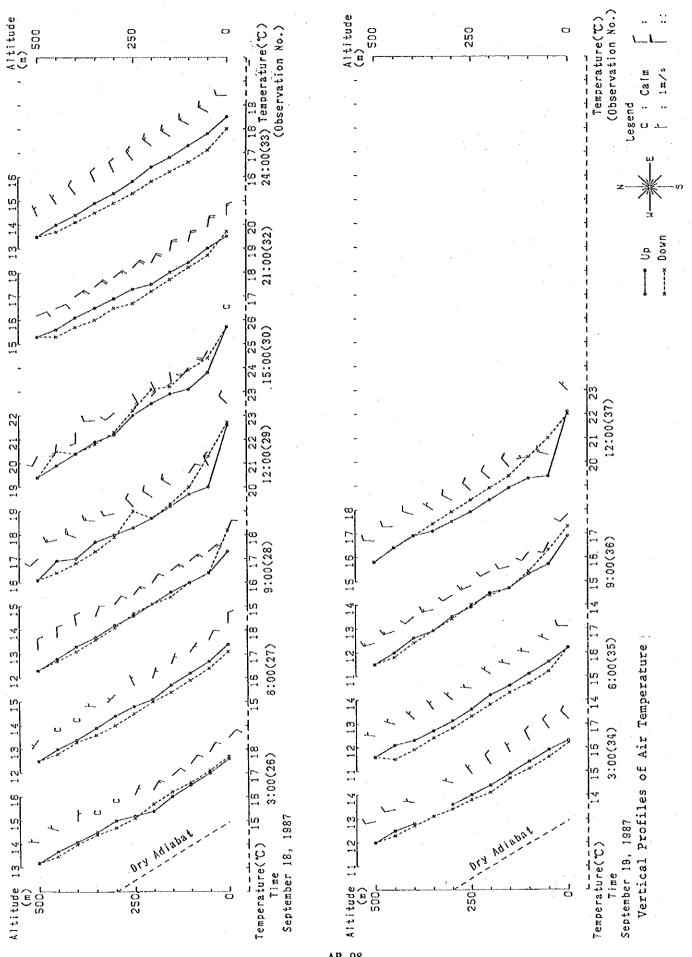
Vertical profiles of air temperature observed by the captive sonde are shown in the following Figures.



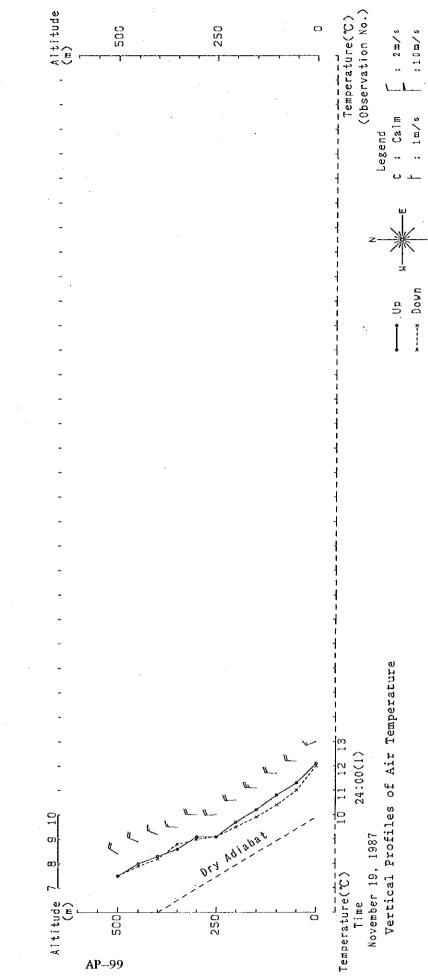


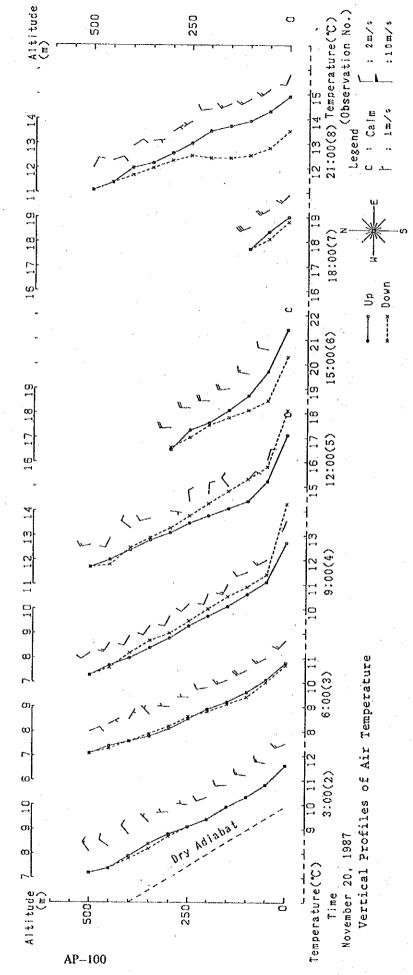


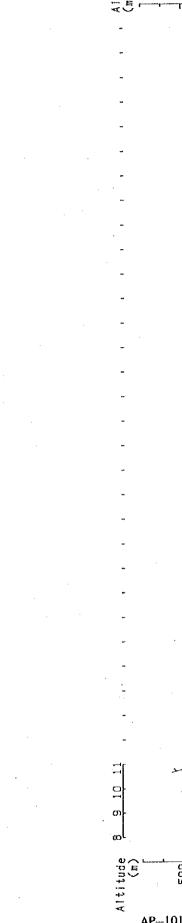


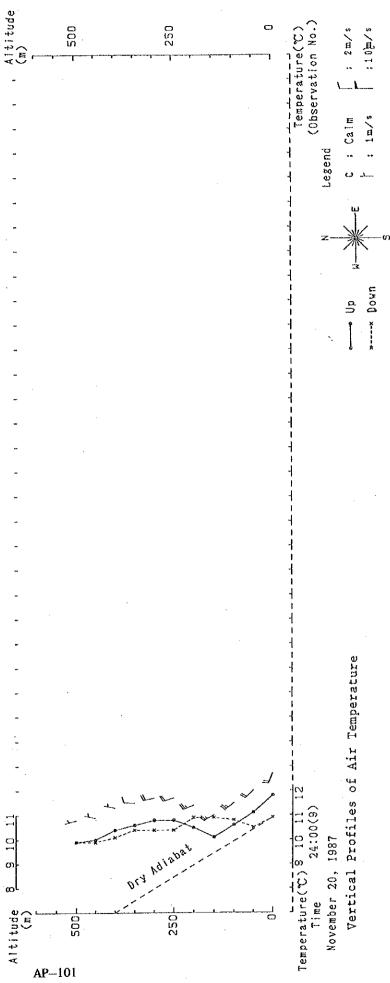


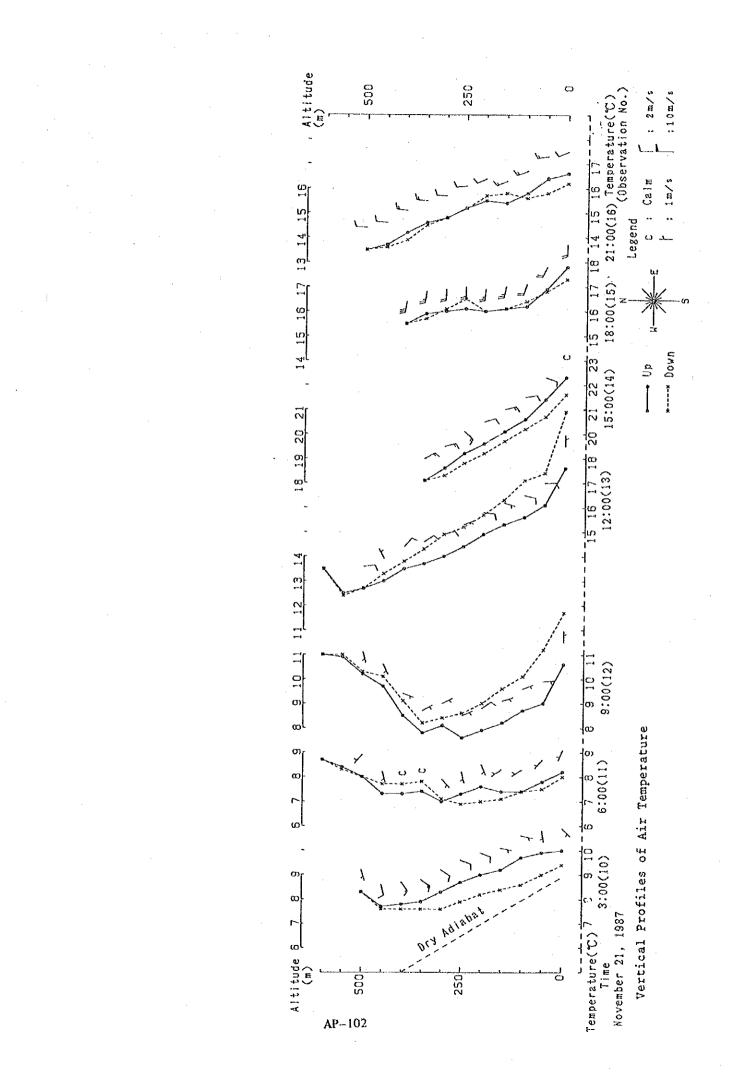
AP--98

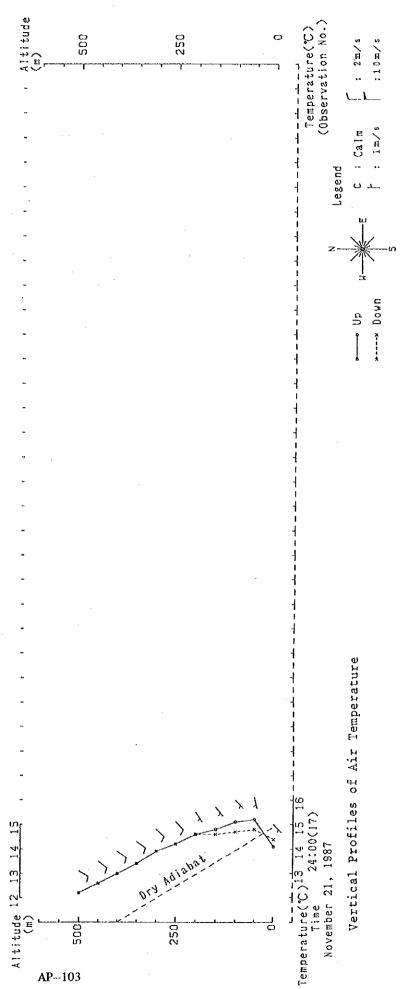


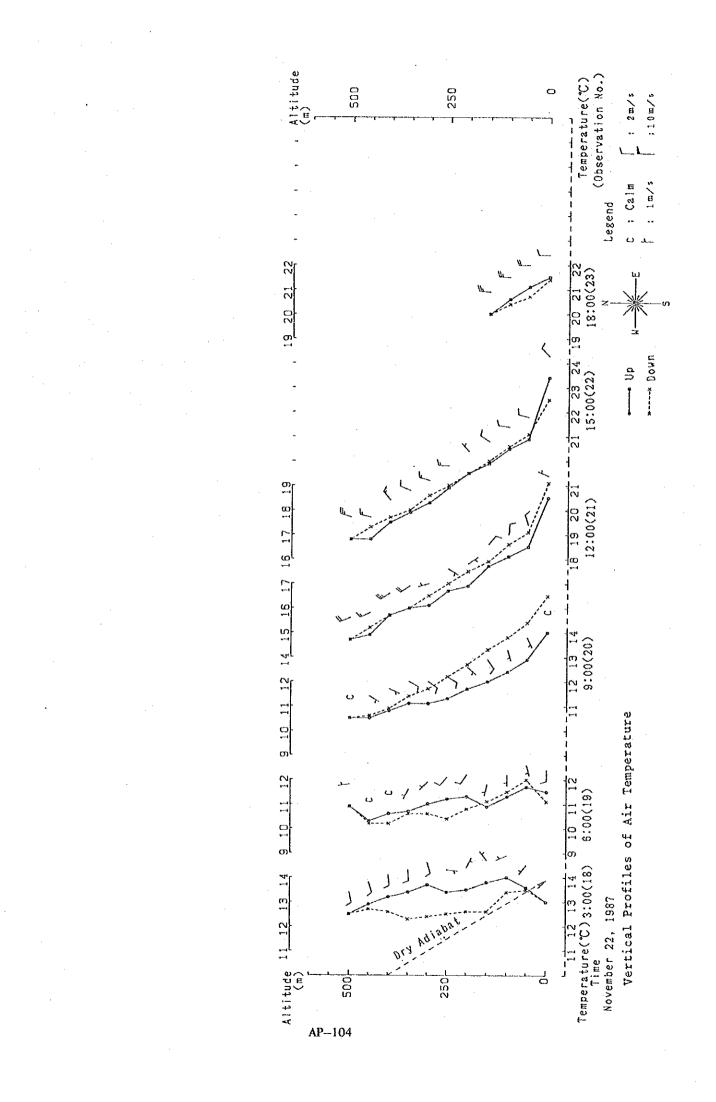


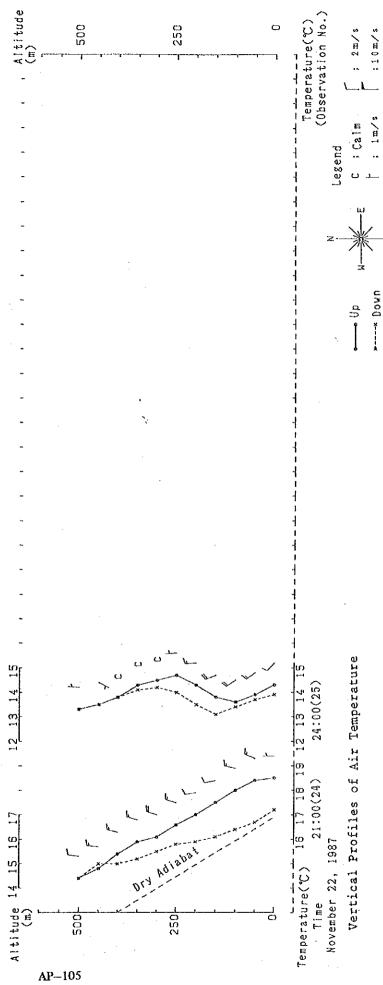


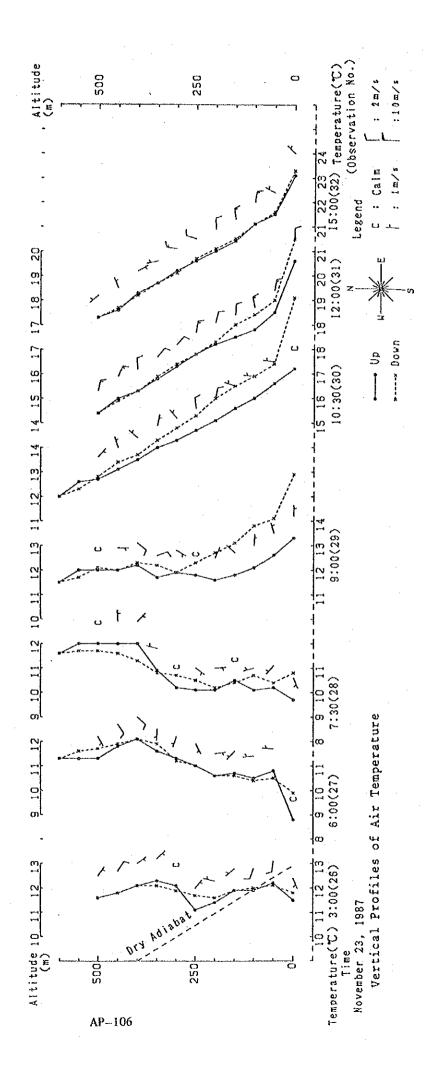




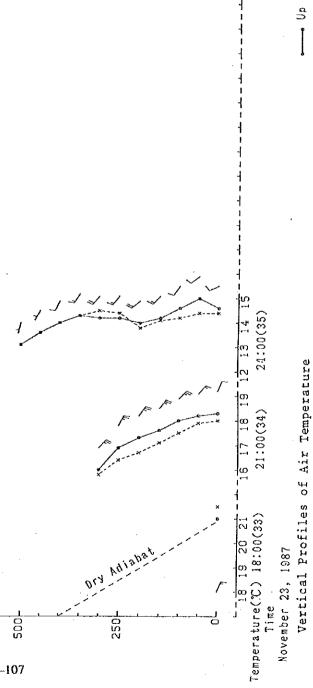












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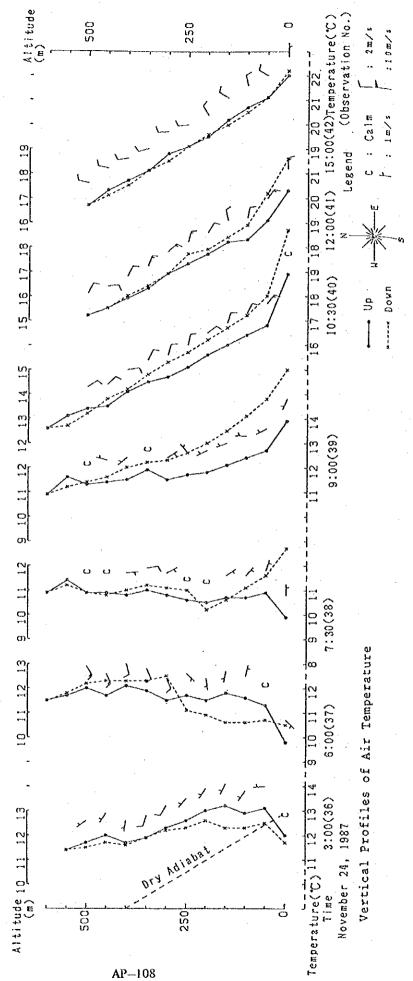
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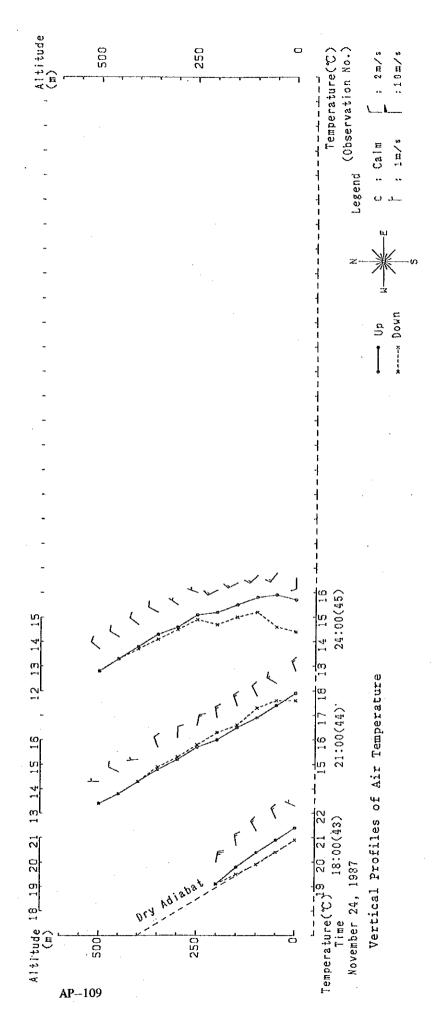
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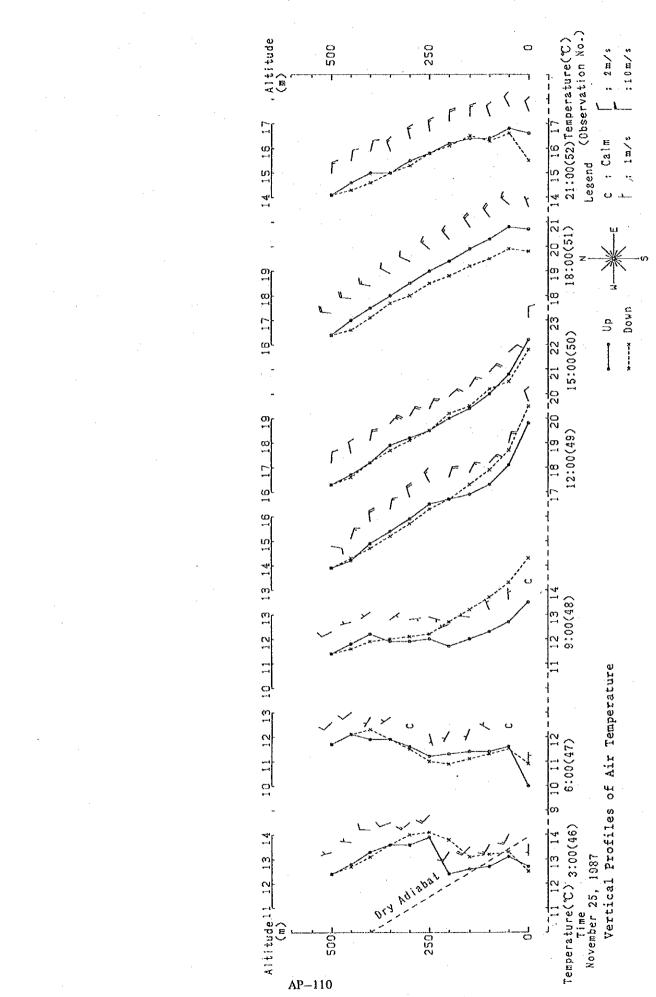
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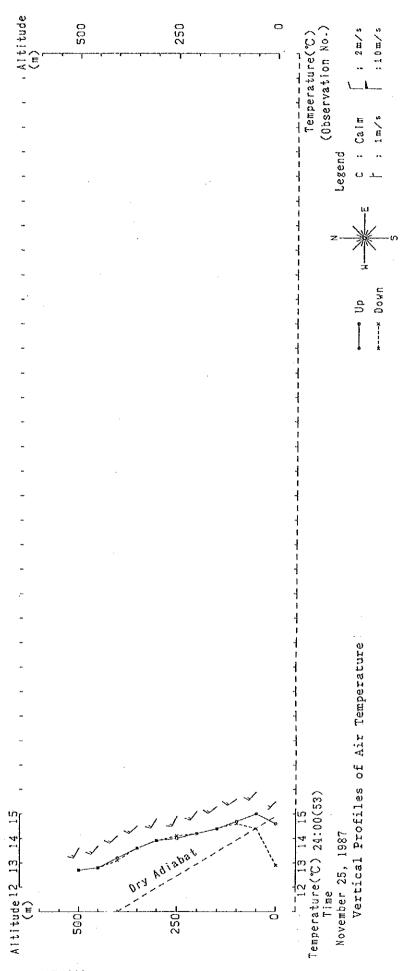
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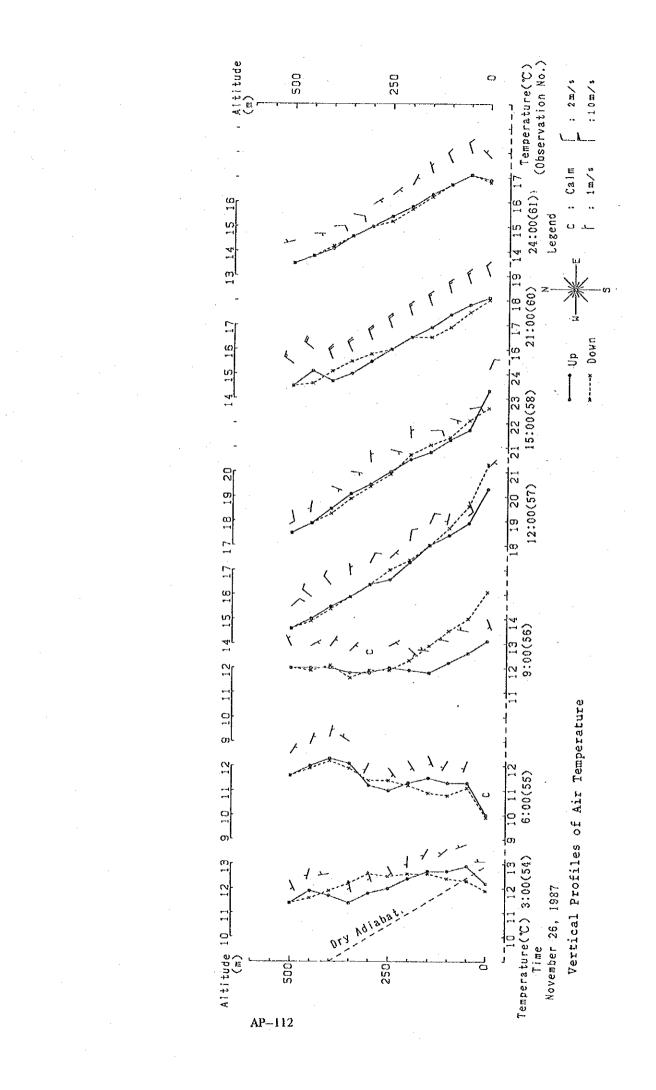


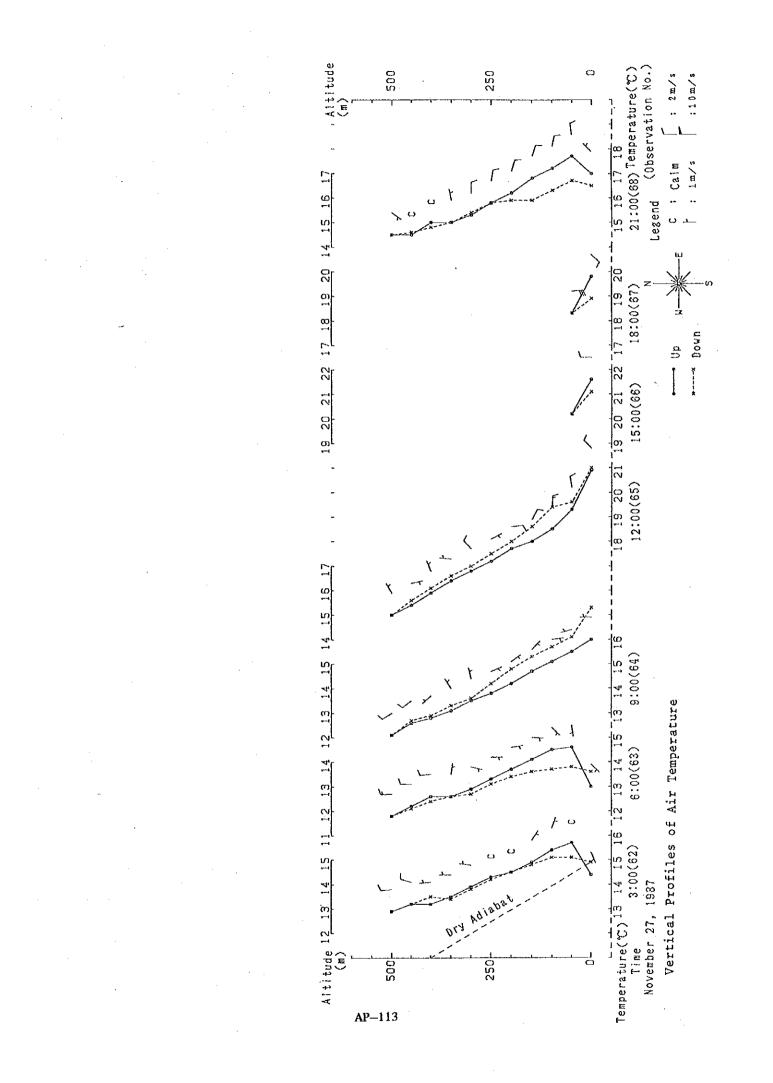


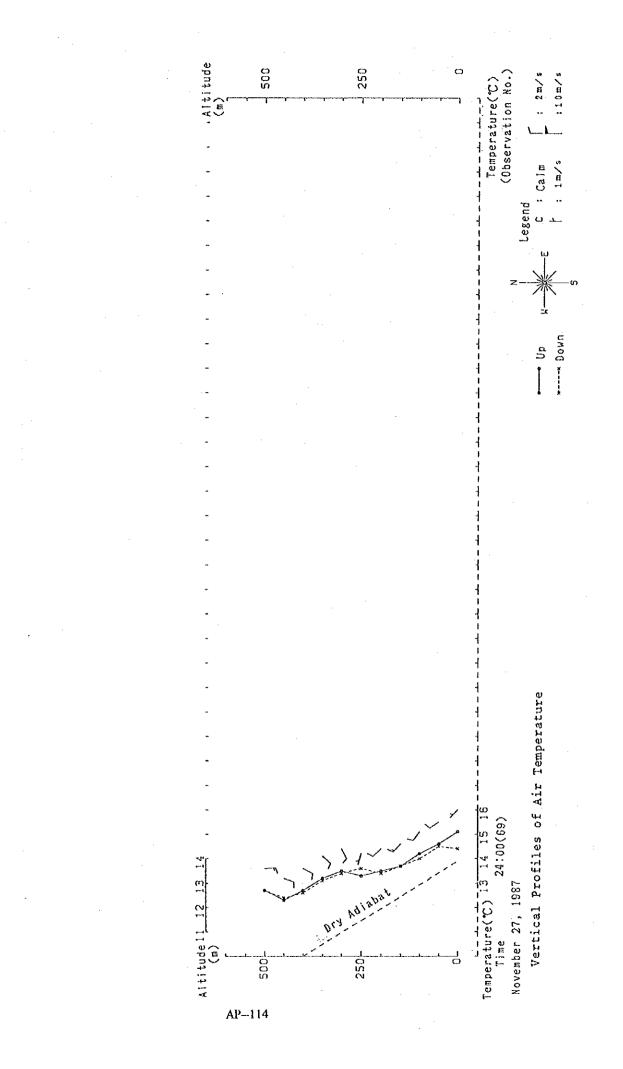


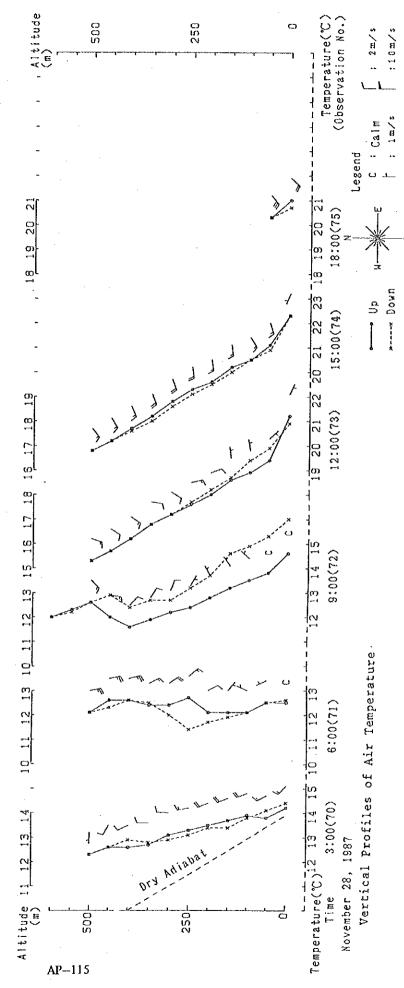


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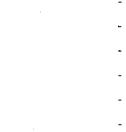


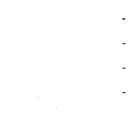


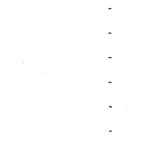












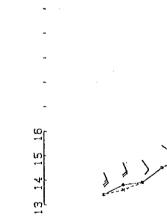
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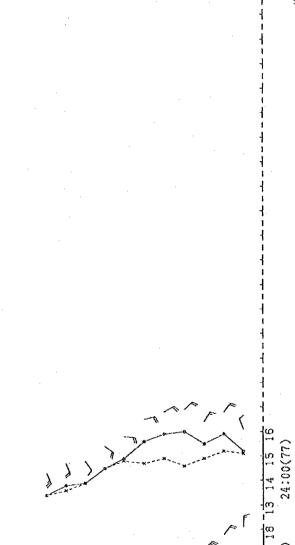
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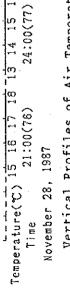
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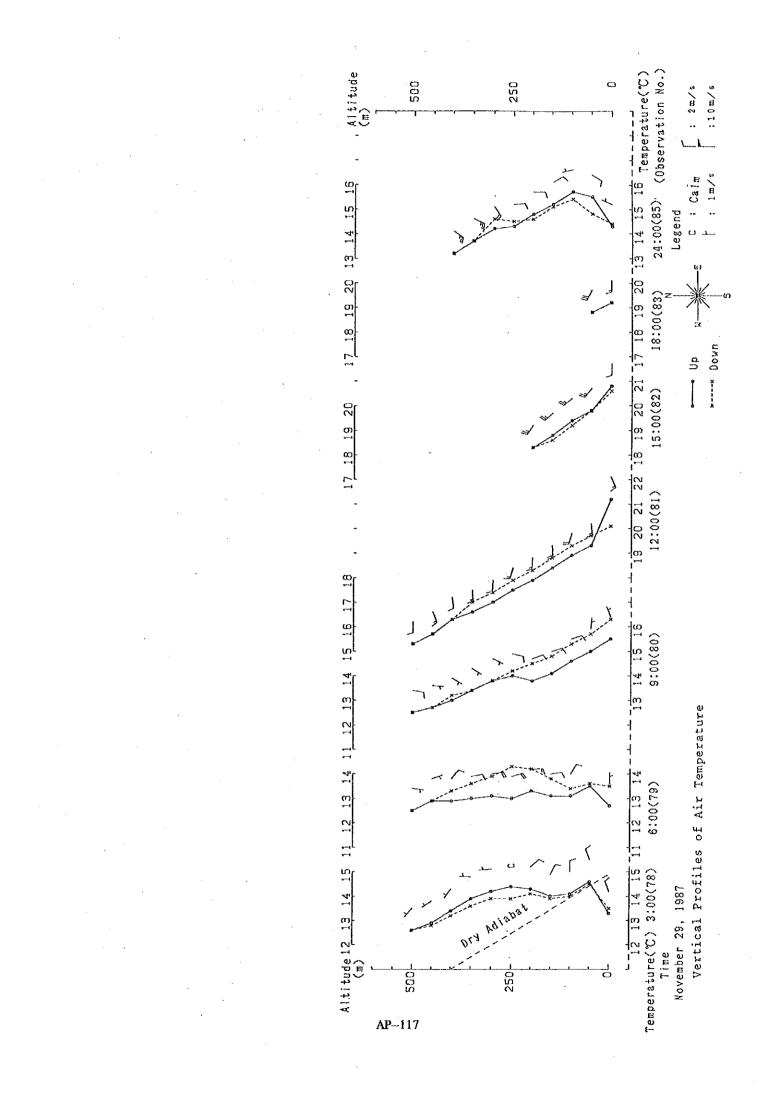
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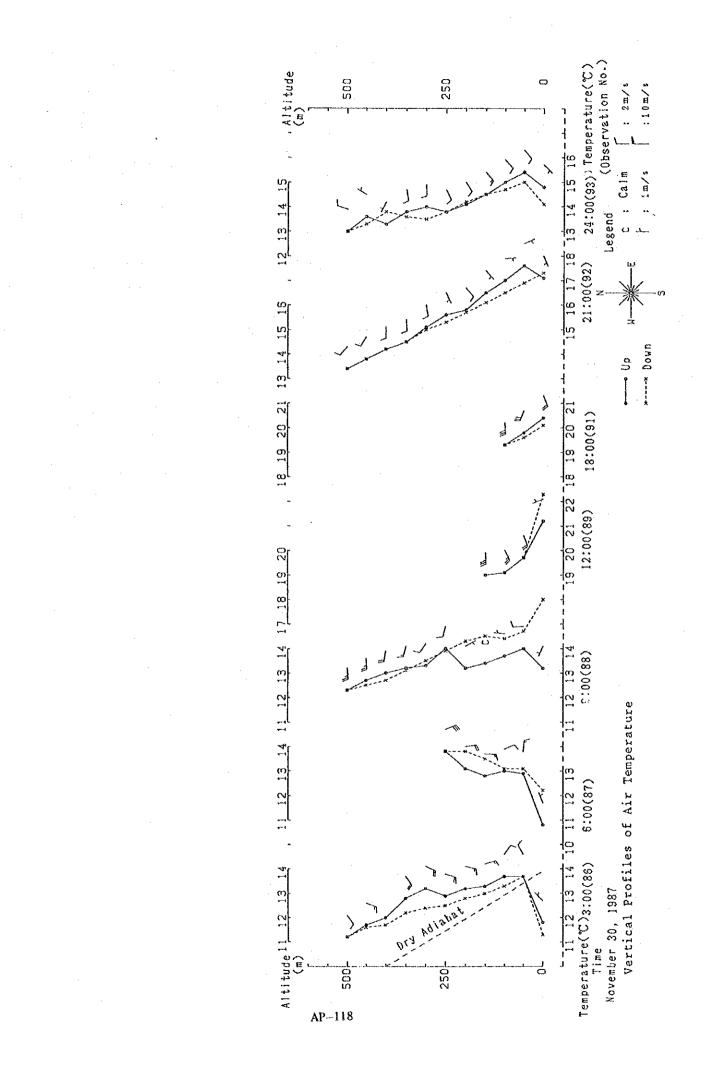
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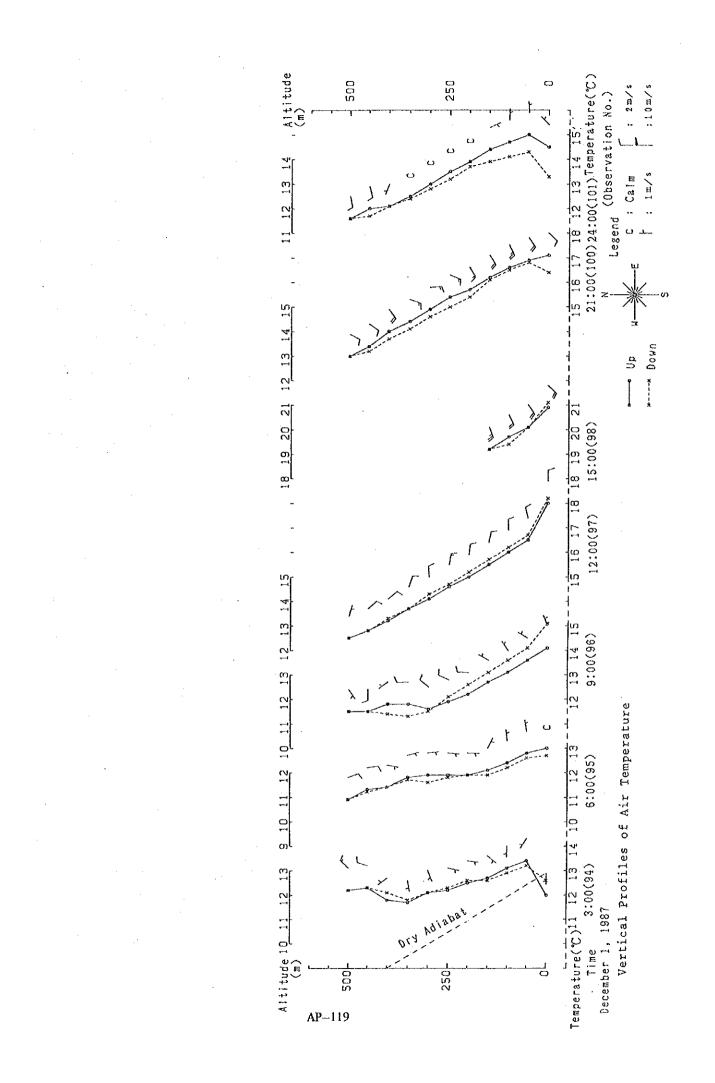
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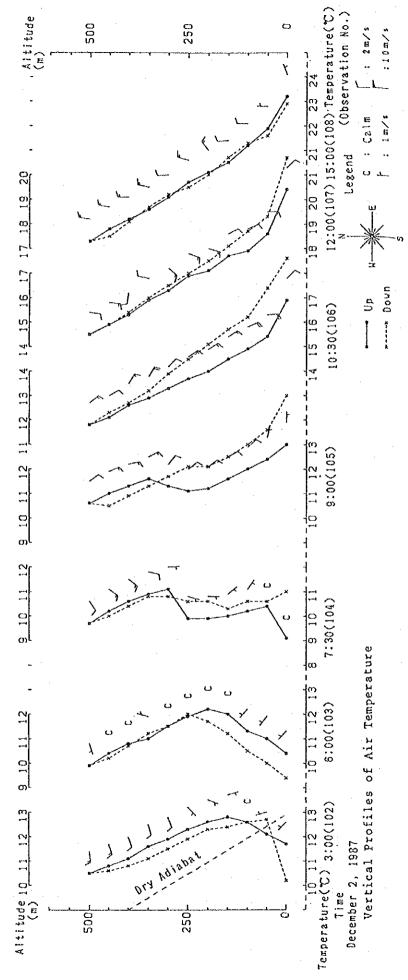
AP-116

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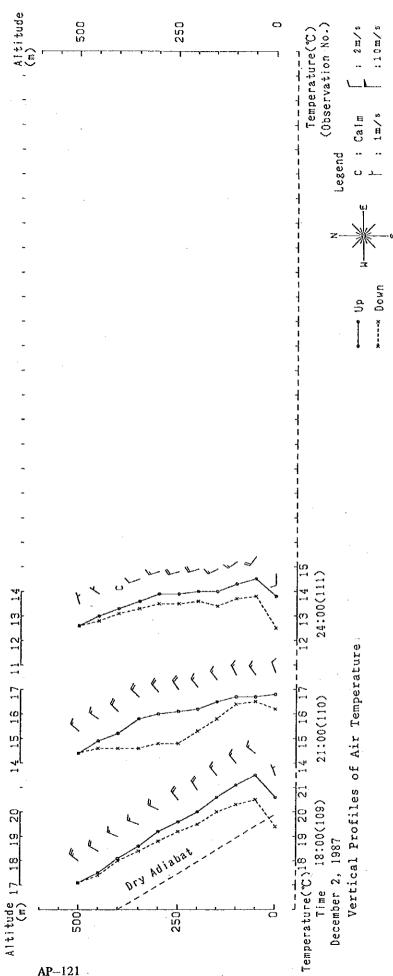


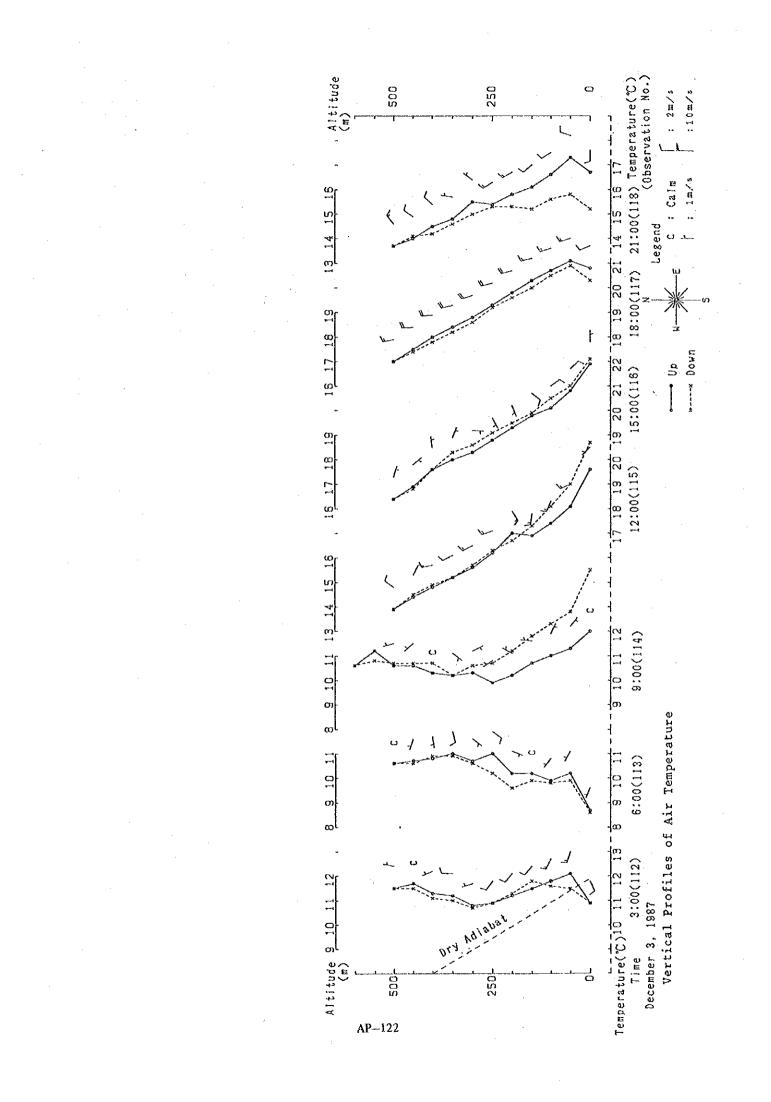


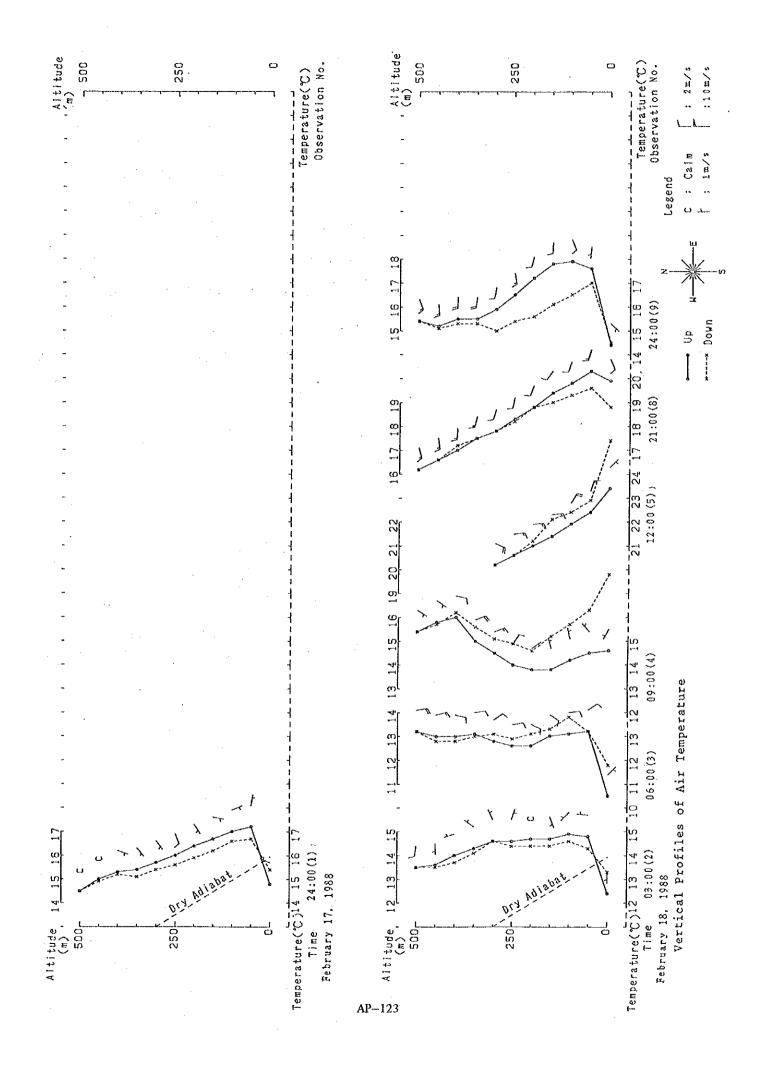


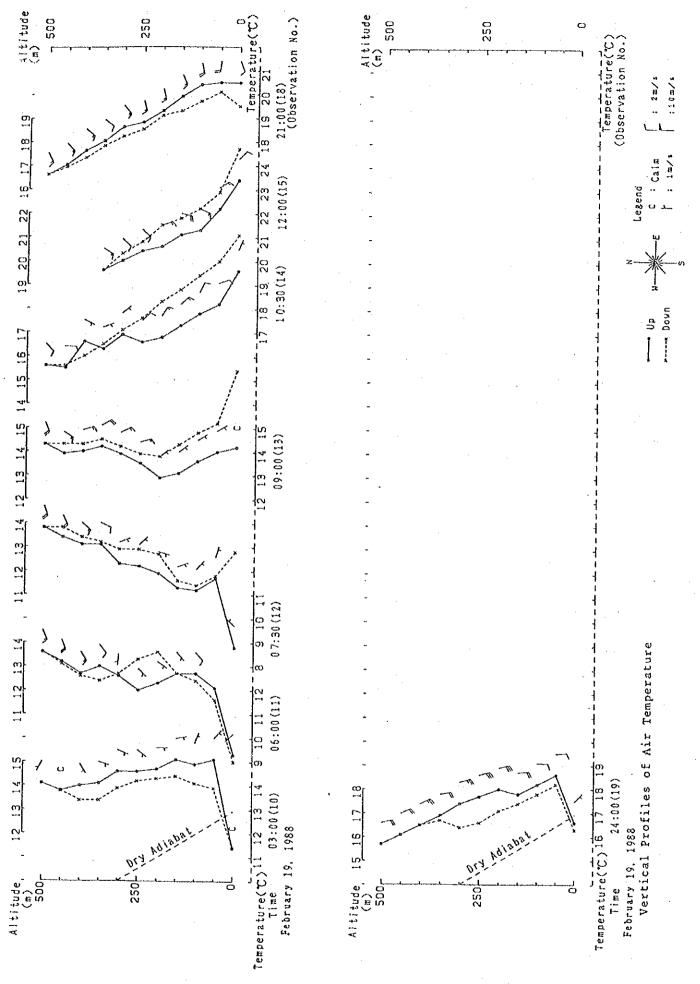


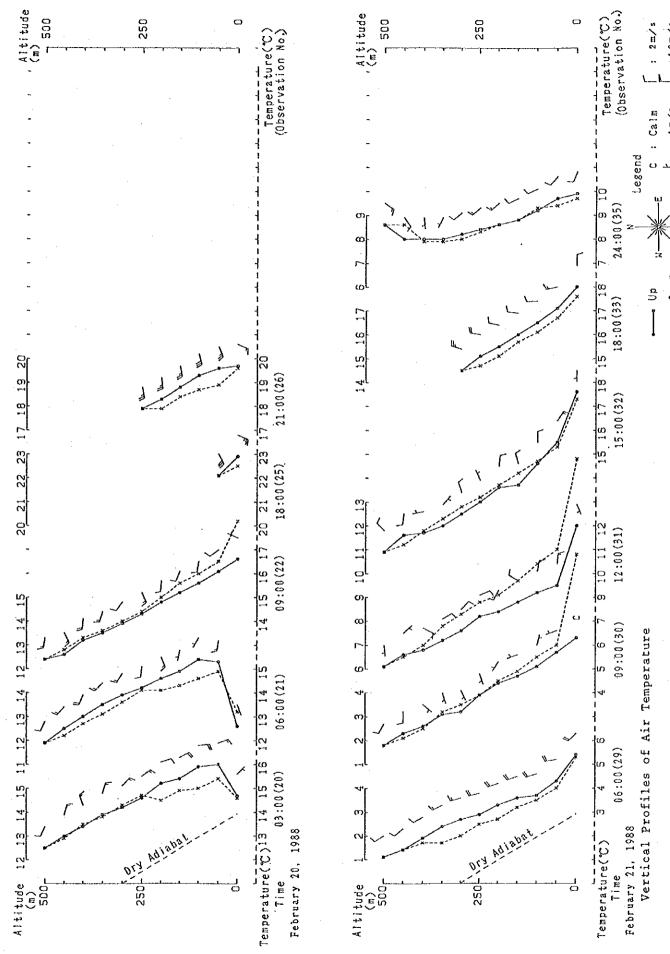










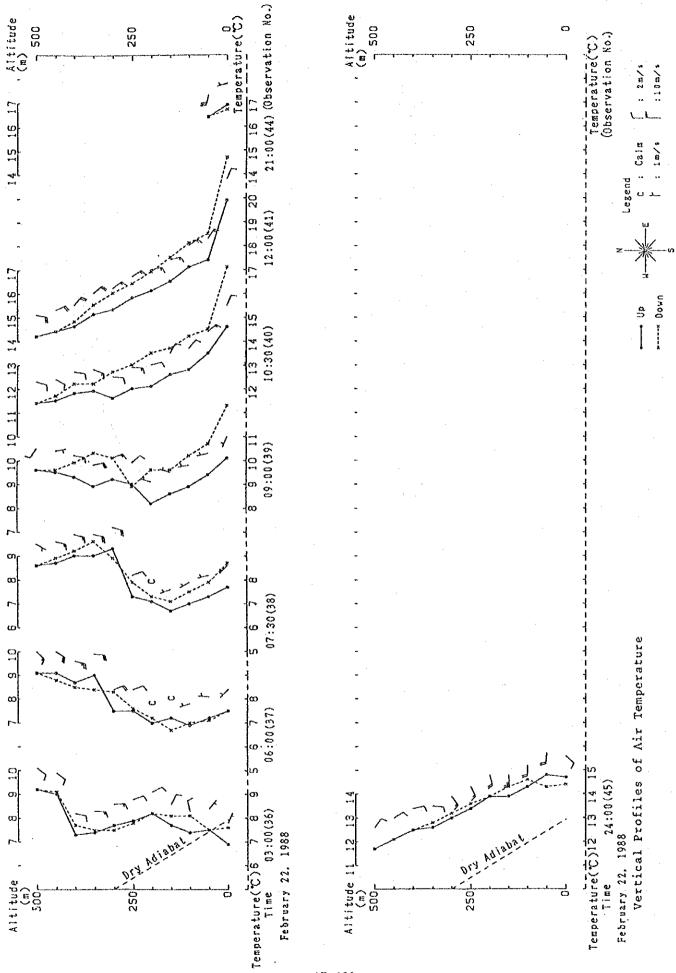


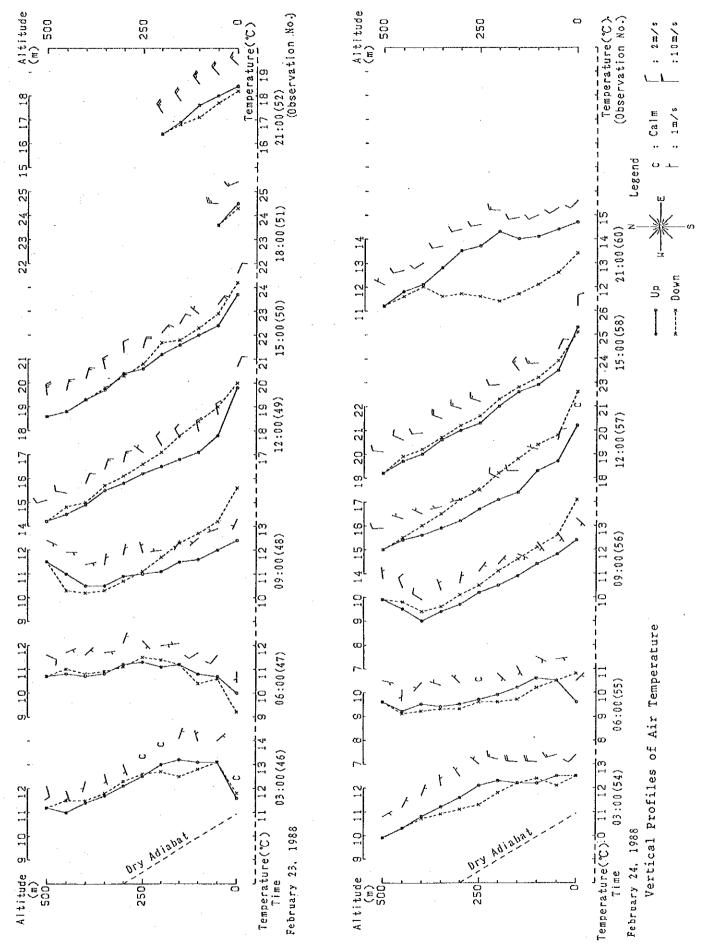
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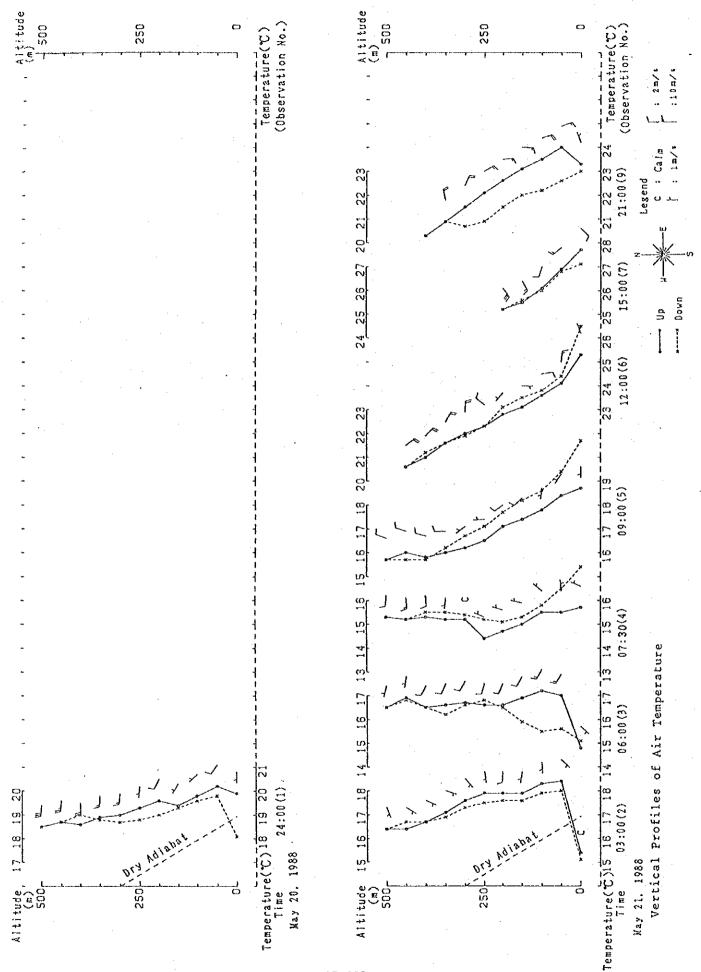
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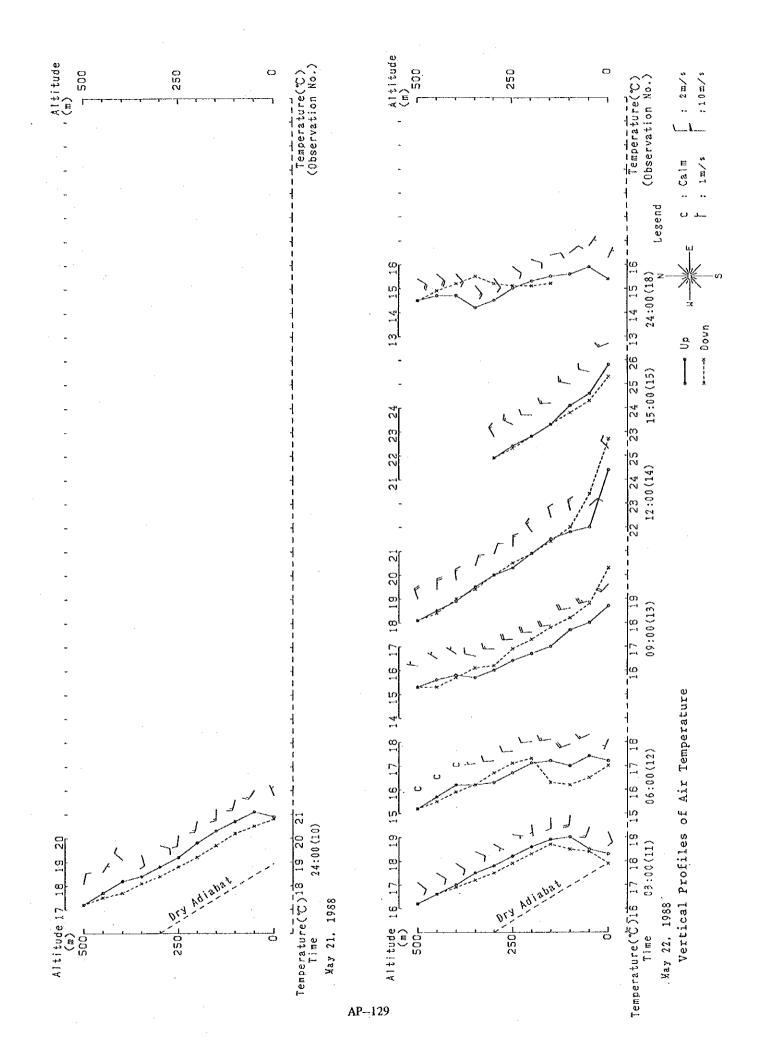
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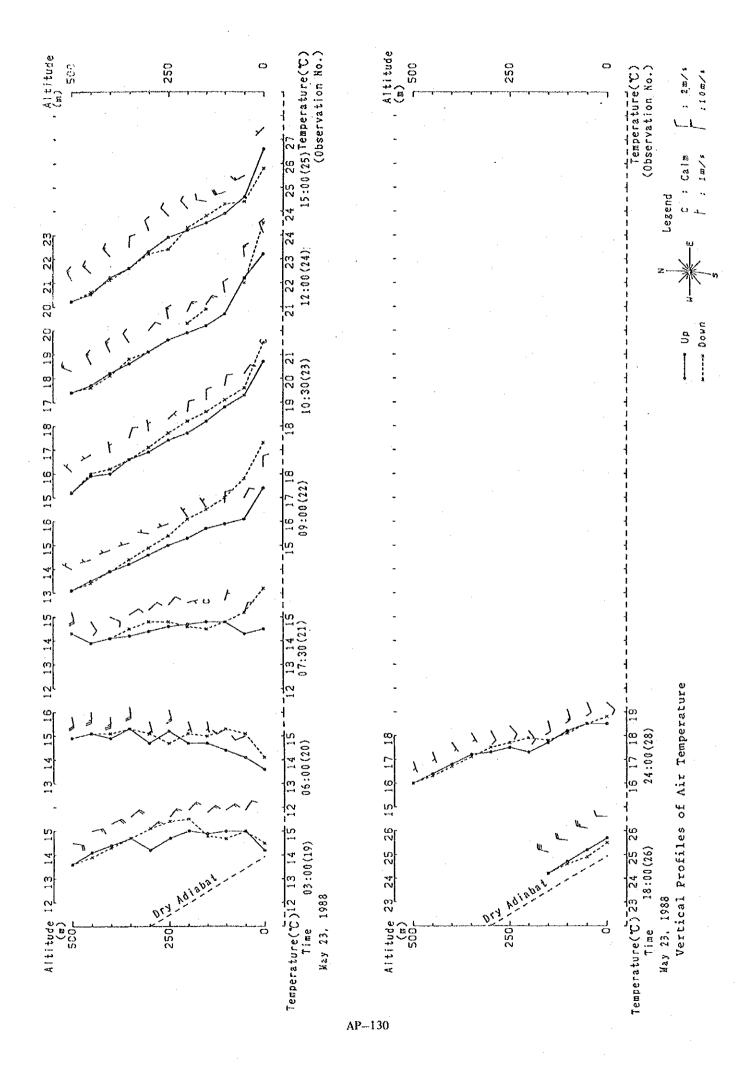
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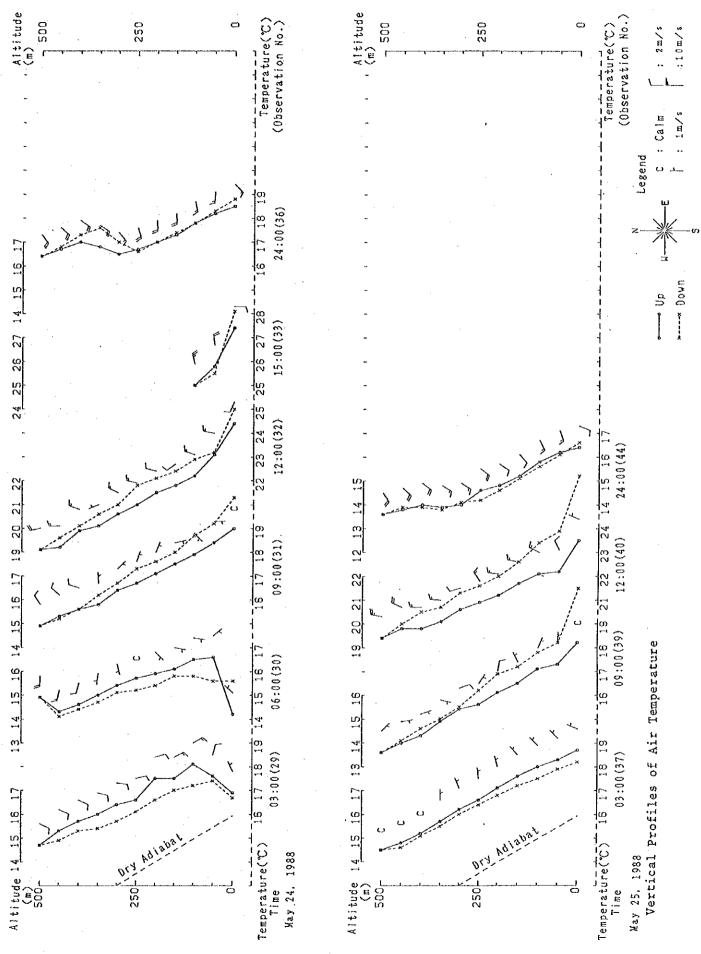


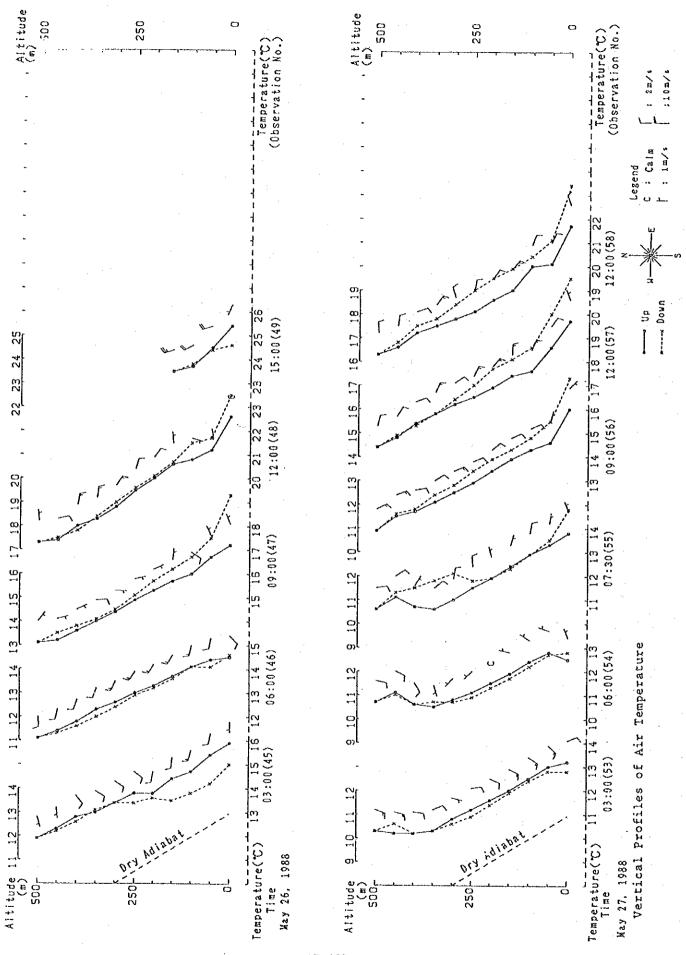












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