



References

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SURFACE DATA

STATION : BANGKOK, LAT. 13° 44' N LONG. 100° 30' E, ELEVATION : 3 metres, TIME : 00 GMT.

MONTH	MEAN PRESSURE	MEAN TEMPERATURE	MEAN DEW-POINT	PREVAILING WIND	MEAN SPEED	REMARK
	mb	°C	°C	Cardinal Points	Knots	
JAN	1012.9 M	25.9	19.4 M	NE	4.5	M=Max. value m=Min. Value
FEB	1011.2	27.6	21.8	S	5.7	
MAR	1010.2	29.0	23.5	S	6.5	
APR	1008.6	30.2 M	24.4	S	6.6 M	
MAY	1007.0	29.8	24.9 M	S	5.3	
JUN	1006.5 m	28.8	24.4	S	5.7	
JUL	1006.8	28.4	24.1	SW	5.0	
AUG	1006.7	28.2	24.1	SW	5.3	
SEP	1007.5	27.8	24.4	SW	4.8	
OCT	1010.0	27.7	24.2	NE	4.4	
NOV	1011.6	26.9	22.7	N	4.2	
DEC	1012.7	25.7 m	19.8	N	4.1 m	
ANNUAL	1009.3	28.0	23.1	S	5.2	

STATION : CHIANG MAI, LAT. 18° 47' N LONG. 98° 59' E, ELEVATION : 314 metres, TIME : 00 GMT.

MONTH	MEAN PRESSURE	MEAN TEMPERATURE	MEAN DEW-POINT	PREVAILING WIND	MEAN SPEED	REMARK
	mb	°C	°C	Cardinal Points	Knots	
JAN	1014.6	21.0 m	14.7	S	1.5	
FEB	1011.8	23.1	14.5 m	S	2.0	
MAR	1009.7	26.0	15.6	S	2.5	
APR	1007.5	28.8	18.7	S	3.1 M	
MAY	1006.1	28.9 M	22.1	S	3.1 M	
JUN	1005.0 m	27.8	22.9	S	2.6	
JUL	1005.3	27.4	22.8	S	2.3	
AUG	1005.4	27.0	23.1	S	2.0	
SEP	1007.2	26.9	23.2 M	S	2.3	
OCT	1011.2	26.1	22.1	N	1.9	
NOV	1013.5	24.3	19.5	N	1.6	
DEC	1015.1 M	21.5	15.4	S	1.4 m	
ANNUAL	1009.4	25.7	19.6	S	2.2	

STATION : UBON RATCHATHANI, LAT. 15° 15' N LONG. 104° 53' E, ELEVATION : 123 metres, TIME : 00 GMT.

MONTH	MEAN PRESSURE	MEAN TEMPERATURE	MEAN DEW-POINT	PREVAILING WIND	MEAN SPEED	REMARK
	mb	°C	°C	Cardinal Points	Knots	
JAN	1013.2	23.8 m	16.1 m	NE	4.8	
FEB	1011.0	26.2	18.0	NE	3.7	
MAR	1009.6	28.6	20.1	NE	3.2	
APR	1007.9	30.1 M	22.4	S	3.3	
MAY	1006.6	29.6	23.9	S	3.1 m	
JUN	1005.7	28.6	24.0 M	SW	4.0	
JUL	1005.8	28.1	23.9	SW	4.0	
AUG	1005.4 m	28.0	23.9	SW	4.0	
SEP	1006.7	27.5	23.8	W	3.2	
OCT	1009.7	26.9	22.4	NE	4.5	
NOV	1011.1	25.5	19.6	NE	5.6	
DEC	1013.3 M	23.9	17.1	NE	5.7 M	
ANNUAL	1008.8	27.2	21.3	NE	4.1	

STATION : SONGKHLA, LAT. 07° 11' N LONG. 100° 37' E, ELEVATION : 5 metres, TIME : 00 GMT.

MONTH	MEAN PRESSURE	MEAN TEMPERATURE	MEAN DEW-POINT	PREVAILING WIND	MEAN SPEED	REMARK
	mb	°C	°C	Cardinal Points	Knots	
JAN	1011.9 M	26.7	22.4 m	E	14.7 M	
FEB	1011.4	27.1	22.8	E	12.7	
MAR	1010.7	27.5	23.2	E	10.0	
APR	1009.3	28.4	24.0	E	7.2	
MAY	1008.5 m	28.7 M	24.1 M	SW	5.7 m	
JUN	1008.8	28.4	23.6	SW	6.0	
JUL	1009.0	28.1	23.3	SW	6.0	
AUG	1009.0	28.1	23.2	SW	6.8	
SEP	1009.5	27.9	23.2	SW	6.5	
OCT	1010.3	27.3	23.7	SW	6.0	
NOV	1010.6	26.7	23.6	E	8.0	
DEC	1011.5	26.5 m	23.0	E	11.6	
ANNUAL	1010.0	27.6	23.3	E	6.4	

RAWINSONDE DATA

STANDARD PRESSURE LEVELS

STATION : BANGKOK, LAT. 13° 44' N LONG. 100° 30' E, ELEVATION : 3 metres, TIME : 00 GMT.

(TYPE OF RADIOSONDE, BENDIX & VIZ 403 MH₂)

PERIOD and MONTH	650 Mb					700 Mb				
	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	1531	16.1	9.8	100	4	3160	9.0	-2.2 m	095	1 m
FEB	1632	17.2	11.2	130	2	3157	8.5 m	0.2	200	4
MAR	1532	18.6	12.0	100	2 m	3164 M	8.6	-0.1	110	2
APR	1515	19.7 M	14.2	175	3	3160	9.5	2.2	085	3
MAY	1501	19.4	15.1	225	3	3148	10.1 M	4.5	205	2
JUN	1493	19.0	15.2 M	260	6 M	3139	10.1	5.5	260	6 M
JUL	1492	18.6	14.6	265	6	3137	9.8	5.2	265	6
AUG	1488 m	18.5	14.9	280	5	3132 m	9.7	5.9 M	275	5
SEP	1495	18.1	15.1	285	5	3136	9.6	5.8	275	4
OCT	1518	17.3	13.4	085	5	3154	8.8	3.3	095	5
NOV	1524	16.1	11.5	080	6	3156	8.8	1.2	085	5
DEC	1530 M	16.1 m	9.5 m	085	5	3156	9.1	-1.0	095	3
ANNUAL	1513	17.8	13.0	165	1	3150	9.3	2.5	210	1
PERIOD and MONTH	500 Mb					400 Mb				
	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	5875	-6.2 m	-17.3	170	2	7584	-16.9 m		205	2
FEB	5871	-5.6	-18.4	210	2	7587	-16.9		275	3
MAR	5874	-6.0	-19.8	240	2	7584	-16.9	-28.5 m	240	4
APR	5877 M	-6.4	-15.9	125	2	7599 M	-15.9	-25.6	190	2
MAY	5870 m	-5.1	-11.3	180	2	7594	-15.2	-22.6	110	1 m
JUN	5885	-4.6 M	-9.8	220	3	7591	-15.0 M	-21.1	110	3 m
JUL	5853	-5.4	-9.8	200	2	7580	-15.4	-21.3	080	3
AUG	5854 m	-5.3	-9.3	250	1	7578 m	-15.1	-20.1 M	070	3
SEP	5857	-5.5	-9.3 M	260	1 m	7580 m	-15.4	-20.6	080	2
OCT	5869	-5.8	-13.0	100	6	7586	-15.8	-23.6	100	5
NOV	5873	-6.4	-13.4	095	6 M	7592	-16.0	-25.4	100	6 M
DEC	5872	-5.6	-20.6 m	095	3	7588	-16.8	-27.3	130	2
ANNUAL	5888	-5.6	-14.0	140	1	7587	-15.9	-23.6	120	2
PERIOD and MONTH	300 Mb					200 Mb				
	Geopo- tential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	9678	-32.7		255	7 M	12400	-54.9		235	10
FEB	9678	-32.7		245	4	12400	-54.9 m		220	8
MAR	9676	-32.8	-43.0	250	6	12399	-54.5		240	10
APR	9694 m	-31.9	-39.0	235	2 m	12428	-54.0		220	3 m
MAY	9699	-30.7	-38.6	095	2	12442	-52.9		075	6
JUN	9700 M	-30.1	-37.7	080	5	12450 M	-52.6 M		080	15
JUL	9684	-30.9	-37.5	085	6	12427	-53.1		075	14
AUG	9681	-30.8 M	-37.1 M	070	5	12426	-53.1		080	17 M
SEP	9683	-30.0	-37.6	080	7	12428	-53.3		080	15
OCT	9686	-31.3	-38.9	100	6	12423	-54.1		090	7
NOV	9689	-31.8	-41.6	100	5	12417	-54.5		140	5
DEC	9677	-32.6 m	-45.3 m	235	3	12395 m	-54.6		210	8
ANNUAL	9685	-31.5	-39.6	105	2	12420	-53.9		165	4

Note : D.P. Mean = Dew-Point Mean.

RAWINSONDE DATA

STANDARD PRESSURE LEVELS

STATION : BANGKOK, LAT. 13° 44' N LONG. 100° 30' E, ELEVATION : 3 metres, TIME : 00 GMT.

(TYPE OF RADIOSONDE, BENDIX & VIZ 403 H₂)

PERIOD and MONTH	150 Mb					100 Mb				
	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	14179	-68.6		220	9	16520	-82.2		205	3
FEB	14177	-68.8		200	9	16515	-82.2		185	3
MAR	14179	-68.1		235	8	16524	-80.9		200	4
APR	14210	-68.3		203	3	16553	-81.7		120	3
MAY	14220	-68.0		080	7	16564	-82.4		090	14
JUN	14242 M	-68.8		075	22	16613 M	-80.2		080	26
JUL	14215	-67.5 M		085	23	16568	-79.3 M		085	28 M
AUG	14216	-67.7		080	24 M	16563	-79.4		085	27
SEP	14216	-67.7		085	21	16562	-79.4		090	25
OCT	14199	-68.6		100	10	16538	-81.0		090	12
NOV	14195	-68.9 m		130	6	16526	-83.0 m		100	9
DEC	14170 m	-68.6		235	6	16609 m	-82.4		180	3 m
ANNUAL	14202	-68.1		100	8	16546	-81.2		090	12
PERIOD and MONTH	70 Mb					60 Mb				
	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	18538	-77.1		215	1 m	20490	-66.2		280	1 m
FEB	18534 m	-77.8 m		265	2	20479 m	-66.8		095	1 m
MAR	18566	-77.6		260	2	20513	-67.2 m		255	1 m
APR	18609	-77.3		110	2	20569	-66.0		095	4
MAY	18609	-76.8		095	11	20562	-64.2		095	12
JUN	18665 M	-73.3		085	21	20661	-63.0		095	14
JUL	18665	-69.5		090	23 M	20679	-62.1		095	23 M
AUG	18665	-69.2 M		090	22	20689 M	-61.6 M		095	23
SEP	18648	-70.3		090	17	20659	-62.3		095	19
OCT	18618	-71.8		085	10	20667	-62.6		095	11
NOV	18564	-74.6		100	7	20533	-64.6		085	6
DEC	18540	-76.9		085	4	20499	-65.6		095	5
ANNUAL	18602	-74.4		090	9	20578	-64.4		095	10
PERIOD and MONTH	30 Mb					20 Mb				
	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	23668	-57.0 m		060	3	26220 m	-54.4 m		105	8
FEB	23623 m	-55.9		080	3 m	26234	-52.6		085	8
MAR	23674	-56.2		100	4	26258	-50.7		070	4 m
APR	23745	-55.8		100	10	26368	-49.9		115	15
MAY	23757	-55.0		095	16	26392	-51.1		090	18
JUN	23886	-54.2		080	22	26474	-48.8 M		090	27
JUL	23876	-54.7		090	25 M	26500 M	-54.3		075	22
AUG	23915 M	-53.8 M		090	22	26493	-50.0		075	27
SEP	23689	-55.2		095	20	26478	-51.8		095	30 M
OCT	23797	-55.2		085	17	26371	-50.2		100	13
NOV	23725	-56.7		095	13	26264	-52.6		110	21
DEC	23672	-56.8		105	7	26268	-53.0		080	8
ANNUAL	23769	-55.5		095	13	26360	-51.6		090	16

RAWINSONDE DATA

STANDARD PRESSURE LEVELS

STATION : CHIANG MAI, LAT. 18° 47'N LONG. 98° 59'E, ELEVATION : 314 metres, TIME : 00 GMT.

(TYPE OF RADIOSONDE : BENDIX & VIZ 403 M₂)

PERIOD and MONTH	850 Mb					700 Mb				
	Geopo-tential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo-tential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	°C	°C	Deg.	Knots	gpm	°C	°C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	1532 M	17.5	8.4	205	3	3147	6.8 m	- 6.4 m	285	6 M
FEB	1522	17.1	7.7 m	235	3	3149	7.6	- 3.2	260	5
MAR	1522	18.4	9.8	260	3	3160 M	7.5	- 1.4	240	4
APR	1505	21.3 M	12.6	265	3	3160 M	9.8	1.8	265	3
MAY	1488	19.5	15.6 M	225	3	3135	10.4	6.3	240	2
JUN	1470	18.4	15.4	230	3	3117	10.7 M	7.0 M	220	4
JUL	1473	18.4	15.6	260	3	3118	10.2	6.6	245	4
AUG	1468 m	18.1	15.6	250	2	3110 m	9.9	6.7	260	3
SEP	1482	17.4	14.7	040	1 m	3125	9.3	6.0	155	1 m
OCT	1518	17.0	13.7	080	3	3151	8.5	3.4	095	3
NOV	1532	16.1	12.7	155	2	3158	7.8	1.4	045	1 m
DEC	1630	13.6 m	10.0	205	4 M	3155	8.0	- 0.3	295	5
ANNUAL	1503	17.6	12.7	225	2	3140	8.9	2.3	260	2
PERIOD and MONTH	500 Mb					400 Mb				
	Geopo-tential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo-tential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	°C	°C	Deg.	Knots	gpm	°C	°C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	5844	- 7.5		285	15 M	7548 m	-18.0		265	17 M
FEB	5855	- 6.5		276	11	7615 M	-16.9		275	15
MAR	5851	- 8.0 m		270	9	7555	-19.1 m		250	14
APR	5874 M	- 5.6		285	5	7589	-16.4		275	7
MAY	5863	- 4.5	-10.7	250	3	7591	-14.6	-20.9	265	2
JUN	5853	- 4.0 M	- 8.2 M	200	3	7588	-13.6 M	-19.2 M	150	2
JUL	5848	- 4.6	- 8.6	255	1	7577	-14.3	-19.7	080	3
AUG	5838 m	- 4.8	- 8.9	000	0 m	7567	-14.5	-19.7	065	3
SEP	5846	- 5.2	-10.6	115	3	7570	-15.0	-21.3	090	4
OCT	5804	- 5.8	-13.7 m	115	2	7584	-15.7	-23.6 m	205	1 m
NOV	5874 M	- 5.1		265	3	7592	-16.0		260	4
DEC	5868	- 4.8		285	7	7673	-17.0		280	8
ANNUAL	5856	- 5.6	-10.1	270	4	7579	-15.9	-20.7	265	5
PERIOD and MONTH	300 Mb					200 Mb				
	Geopo-tential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo-tential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	°C	°C	Deg.	Knots	gpm	°C	°C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	9658	-31.6		260	25 M	12385	-53.3		260	22
FEB	9653	-33.4		275	18	12382	-53.8		250	19
MAR	9639 m	-33.5 m		260	19	12351	-52.9		250	27 M
APR	9687	-31.8		275	10	12424	-52.9		265	12
MAY	9707	-29.8	-33.8	250	2	12465	-52.6		345	1 m
JUN	9714 M	-28.6 M	-28.0 M	085	4	12481 M	-51.3		060	8
JUL	9695	-29.3	-34.6	060	5	12459	-51.2		070	13
AUG	9678	-29.4	-36.0	070	8	12441	-51.0 M		065	11
SEP	9682	-29.9	-37.3	080	6	12436	-52.2		080	8
OCT	9687	-31.1	-40.4 m	225	1 m	12429	-53.0		245	4
NOV	9703	-32.1		275	2	12399	-54.1		265	7
DEC	9662	-32.5		265	13	12388 m	-54.2 m		275	12
ANNUAL	9680	-31.1	-34.9	270	6	12420	-52.7		265	6

Note: M = Maximum Value, m = Minimum Value, D.P. = Dew-Point.

RAWINSONDE DATA

STANDARD PRESSURE LEVELS

STATION : CHIANG MAI, LAT. 18° 47'N LONG. 98° 59'E, ELEVATION : 314 metres, TIME : 00 GMT.

(TYPE OF RADIOSONDE : BENDIX & VIZ 403 M₂)

PERIOD and MONTH	150 Mb					100 Mb				
	Geopotential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopotential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	°C	°C	Deg.	Knots	gpm	°C	°C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	14176	-66.3		265	20	16531	-80.6		275	9
FEB	14168	-67.0		250	18	16535	-79.2		270	7
MAR	14134 m	-65.8		250	21 M	16528 m	-78.5		280	11
APR	14218	-66.8		170	11	16577	-79.8		280	11
MAY	14263	-66.6		100	3	16614	-80.1		080	6
JUN	14285 M	-66.2		050	11	16640 M	-79.9		070	22
JUL	14261	-65.9		075	18	16634	-78.4 M		080	27 M
AUG	14234	-66.8		076	16	16596	-78.7		085	21
SEP	14224	-67.1		085	11	16590	-79.8		085	14
OCT	14222	-65.1 M		216	2 m	16586	-78.9		100	4 m
NOV	14196	-67.9 m		245	11	16560	-81.0 m		175	4
DEC	14178	-67.1		255	19	16571	-80.0		275	16
ANNUAL	14213	-66.6		255	4	16580	-79.5		290	4
PERIOD and MONTH	70 Mb					50 Mb				
	Geopotential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopotential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	°C	°C	Deg.	Knots	gpm	°C	°C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	18554 m	-74.5		205	6	20529 m	-65.0		260	6
FEB	18579	-77.0 m		250	6	20531	-64.9		290	6
MAR	18587	-76.0		250	6	20549	-65.3 m		045	2 m
APR	18628	-76.2		085	2 m	20592	-63.6		070	5
MAY	18662	-75.8		085	11	20648	-63.3		085	10
JUN	18694	-72.9		085	20	20721	-60.7		085	20
JUL	18706 M	-70.3		085	27 M	20737	-61.8		085	23
AUG	18685	-70.3		085	23	20771 M	-62.3		090	26 M
SEP	18686	-70.3		085	19	20680	-62.3		090	20
OCT	18680	-69.8 M		080	8	20695	-60.3 M		080	9
NOV	18590	-74.0		080	7	20577	-64.1		080	10
DEC	18602	-77.0		260	3	20553	-64.4		065	4
ANNUAL	18638	-73.7		085	8	20627	-63.2		080	10
PERIOD and MONTH	30 Mb					20 Mb				
	Geopotential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopotential	Temp. Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	°C	°C	Deg.	Knots	gpm	°C	°C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	23714	-55.3		155	1 m	26293	-51.0		185	5 m
FEB	23720	-55.6		065	1					
MAR	23562	-56.0		120	3	26371	-48.2 M		230	15
APR	23438 m	-53.7		030	10	26429	-48.8		115	11
MAY	23857	-54.0		095	18	26480	-50.3		075	22
JUN	23944	-53.1		090	25	26528	-49.8		055	18
JUL	23944	-53.7		090	24	26528	-49.8		055	18
AUG	23912	-55.0		085	28 M	26489	-54.0		090	37
SEP	23888	-54.9		080	24	26455	-52.4		085	27
OCT	23999 M	-52.8 M		090	7	26577 M	-57.1 m		090	31
NOV	23756	-54.5		125	8					
DEC	23671	-59.7 m		125	4	26191 m	-55.4		300	45 M
ANNUAL	23779	-54.9		090	11	26424	-51.9		075	11

Note: M = Maximum Value. m = Minimum Value.

RAWINSONDE DATA

STANDARD PRESSURE LEVELS

STATION : SONOMILA, LAT. 7° 11'N LONG. 100° 37'E, ELEVATION : 5 metres, TIME : 00 GMT.

(TYPE OF RADIOSONDE : BENDIX & VIZ 403 MH₂)

PERIOD and MONTH	850 Mb					700 Mb				
	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	1524 M	16.6	12.3	080	7	3154 M	8.8	0.1	080	5
FEB	1518	10.8	10.0	085	5	3152	9.4	-3.0	085	4
MAR	1512	17.7	11.9	080	5	3150	9.4	-1.4	085	6
APR	1502	18.6	12.8	090	3	3153	9.4	0.5	085	4
MAY	1500	10.7	13.8	025	4	3143	9.9	3.6	160	1
JUN	1503	10.6	12.9	240	6	3145	9.7	2.6	260	4
JUL	1500	18.0	12.6	275	5	3135	9.0	2.5	270	4
AUG	1493	17.8	12.7	270	10	3137	9.1	3.0	280	7
SEP	1502	17.3	12.3	270	8	3138	8.6	3.2	280	6
OCT	1511	17.2	13.9	020	7	3147	8.7	4.0	185	1
NOV	1507	16.1	12.6	050	4	3138	8.3	2.9	075	3
DEC	1512	16.8	12.1	080	7	3141	8.2	1.1	090	4
ANNUAL	1507	17.4	12.5	035	1	3144	9.0	1.6	050	1
PERIOD and MONTH	500 Mb					400 Mb				
	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	5864	-6.0	-17.6	100	5	7557	-16.4	-31.9	115	4
FEB	5868	-5.3	-18.6	100	3	7561	-16.6	-33.8	070	7
MAR	5868	-5.8	-18.7	090	5	7565	-16.1	-29.4	085	6
APR	5862	-5.4	-16.7	100	6	7573	-15.9	-29.6	100	7
MAY	5862	-5.4	-11.7	130	2	7573	-15.3	-22.9	120	3
JUN	5864	-5.7	-12.1	110	2	7580	-16.2	-23.1	120	3
JUL	5857	-6.1	-12.4	125	2	7567	-16.1	-27.4	095	5
AUG	5844	-6.1	-11.4	165	2	7573	-15.9	-25.4	105	5
SEP	5847	-6.5	-11.2	160	2	7562	-16.6	-23.0	095	4
OCT	5801	-6.2	-11.4	120	3	7570	-16.5	-24.0	105	5
NOV	5847	-6.4	-13.0	090	5	7550	-16.8	-24.2	105	6
DEC	5849	-6.4	-18.8	095	6	7558	-16.4	-31.1	095	7
ANNUAL	5858	-5.9	-14.5	105	4	7566	-16.3	-27.2	085	5
PERIOD and MONTH	300 Mb					200 Mb				
	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopo- tential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	9873	-32.3	-47.6	090	4	12389	-54.6		115	5
FEB	9868	-32.2	-49.0	115	4	12403	-55.1		140	8
MAR	9878	-31.8	-45.3	105	5	12403	-54.4		105	5
APR	9874	-31.6	-42.4	105	5	12403	-54.2		075	5
MAY	9889	-30.7	-40.0	075	4	12429	-53.5		130	3
JUN	9882	-31.2	-39.7	080	6	12419	-53.9		255	7
JUL	9860	-32.0	-40.3	075	8	12386	-54.6		080	16
AUG	9862	-31.9	-39.9	080	9	12392	-54.7		075	20
SEP	9855	-32.3	-40.1	080	4	12377	-55.2		080	12
OCT	9854	-31.9	-39.3	090	7	12397	-54.9		085	11
NOV	9857	-32.3	-41.2	105	7	12376	-55.3		105	9
DEC	9856	-32.6	-44.3	105	7	12373	-55.3		130	10
ANNUAL	9867	-31.9	-42.3	095	6	12396	-54.6		105	8

RAWINSONDE DATA

STANDARD PRESSURE LEVELS

STATION : SONGKHLA, LAT. 7° 11' N LONG. 100° 37' E, ELEVATION : 5 metres, TIME : 00 GMT.

(TYPE OF RADIOSONDE : BENDIX & VIZ 403 MHz)

PERIOD and MONTH	150 Mb					100 Mb				
	Geopotential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopotential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	14162	-68.5		060	10	16514	-80.4		150	4 m
FEB	14177	-68.8		120	3 m	16513	-80.3		115	7
MAR	14186	-68.0 M		065	5	16528	-80.9		100	6
APR	14183	-68.7		070	6	16508	-83.4 m		100	7
MAY	14211 M	-68.4		075	10	16546 M	-81.6		090	13
JUN	14201	-68.2		085	22	16535	-79.3		100	13
JUL	14161	-69.1		075	24	16499	-77.7 M		100	21 M
AUG	14168	-69.1		070	30 M	16520	-77.7		095	19
SEP	14148	-69.9		080	22	16482	-78.7		095	21
OCT	14168	-69.9 m		090	17	16491	-81.1		095	13
NOV	14145	-69.4		110	13	16466	-82.8		095	11
DEC	14141 m	-69.6		130	9	16466 m	-82.9		105	8
ANNUAL	14171	-69.0		085	14	16506	-80.6		100	12
PERIOD and MONTH	70 Mb					50 Mb				
	Geopotential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopotential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	18438 m	-75.2		095	5	20439	-67.1		080	11
FEB	18511	-75.2		280	1 m	20468	-63.9		095	14
MAR	18524	-77.3		035	3	20501	-67.0 m		090	17
APR	18490	-77.9 m		090	9	20443	-60.4		090	16
MAY	18508	-75.8		100	7	20532	-63.1		095	9
JUN	18618	-70.5		090	12	20637	-61.3		090	17
JUL	18651 M	-67.8		065	15 M	20672 M	-60.9 M		090	19 M
AUG	18643	-67.5 M		090	12	20668	-61.4		090	11
SEP	18582	-68.9		090	10	20602	-62.4		100	13
OCT	18569	-70.9		100	8	20670	-63.6		105	9
NOV	18473	-74.7		120	3	20436 m	-65.2		100	3 m
DEC	18520	-74.5		115	7	20491	-65.3		105	18
ANNUAL	18550	-73.3		090	8	20491	-65.3		090	13
PERIOD and MONTH	30 Mb					20 Mb				
	Geopotential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed	Geopotential	Temp Mean	D.P. Mean	Wind Dir.	Wind Speed
	gpm	C	C	Deg.	Knots	gpm	C	C	Deg.	Knots
1954-60	H	T	Td	d	V	H	T	Td	d	V
JAN	23603 m	-56.7 m		090	20	26254	-48.7		070	17
FEB	23618	-57.1		095	30					
MAR	23657	-55.8		095	28					
APR	23617	-51.9		090	7					
MAY	23830	-60.2 M		136	9	26508	-48.8		270	12
JUN	23803	-50.8		230	5 m					
JUL	23929 M	-53.2		100	35 M	26585 M	-51.3		085	27
AUG	23890	-53.7		106	21	26505	-48.0		100	9
SEP	23604	-54.5		095	16	26553	-48.5 M		090	21
OCT	23823	-54.9		095	21	26378	-53.9 m		090	8 m
NOV										
DEC	23681	-54.9		085	8	26219 m	-48.6		095	28 M
ANNUAL	23754	-54.0		090	18	26429	-49.7		090	14

APPENDIX B1

TABLE 94 (CONTINUED)

SATURATION VAPOR PRESSURE OVER WATER

Temperature °C.	Metric units									
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0	6.1078	6.1523	6.1971	6.2422	6.2876	6.3333	6.3793	6.4256	6.4721	6.5190
1	6.5662	6.6137	6.6614	6.7095	6.7579	6.8066	6.8556	6.9049	6.9545	7.0044
2	7.0547	7.1053	7.1562	7.2074	7.2590	7.3109	7.3631	7.4157	7.4685	7.5215
3	7.5753	7.6291	7.6833	7.7379	7.7928	7.8480	7.9036	7.9595	8.0158	8.0724
4	8.1294	8.1868	8.2445	8.3026	8.3610	8.4198	8.4789	8.5384	8.5983	8.6586
5	8.7192	8.7802	8.8416	8.9033	8.9655	9.0280	9.0909	9.1542	9.2179	9.2820
6	9.3465	9.4114	9.4766	9.5423	9.6083	9.6748	9.7416	9.8089	9.8765	9.9446
7	10.013	10.082	10.151	10.221	10.291	10.362	10.433	10.505	10.577	10.649
8	10.722	10.795	10.869	10.943	11.017	11.092	11.168	11.243	11.320	11.397
9	11.474	11.552	11.630	11.708	11.787	11.867	11.947	12.027	12.108	12.190
10	12.272	12.355	12.438	12.521	12.606	12.690	12.775	12.860	12.946	13.032
11	13.119	13.207	13.295	13.383	13.472	13.562	13.652	13.742	13.833	13.925
12	14.017	14.110	14.203	14.297	14.391	14.486	14.581	14.678	14.774	14.871
13	14.969	15.067	15.166	15.266	15.365	15.466	15.567	15.669	15.771	15.874
14	15.977	16.081	16.186	16.291	16.397	16.503	16.610	16.718	16.826	16.935
15	17.044	17.154	17.264	17.376	17.487	17.600	17.713	17.827	17.942	18.057
16	18.173	18.290	18.407	18.524	18.643	18.762	18.882	19.002	19.123	19.245
17	19.367	19.490	19.614	19.739	19.864	19.990	20.117	20.244	20.372	20.501
18	20.630	20.760	20.891	21.023	21.155	21.288	21.422	21.556	21.691	21.827
19	21.964	22.101	22.240	22.379	22.518	22.659	22.800	22.942	23.085	23.229
20	23.373	23.518	23.664	23.811	23.959	24.107	24.256	24.406	24.557	24.709
21	24.861	25.014	25.168	25.323	25.479	25.635	25.792	25.950	26.109	26.269
22	26.430	26.592	26.754	26.918	27.082	27.247	27.413	27.580	27.748	27.916
23	28.086	28.256	28.428	28.600	28.773	28.947	29.122	29.298	29.475	29.652
24	29.831	30.011	30.191	30.373	30.555	30.739	30.923	31.109	31.295	31.483
25	31.671	31.860	32.050	32.242	32.434	32.627	32.821	33.016	33.212	33.410
26	33.608	33.807	34.008	34.209	34.411	34.615	34.820	35.025	35.232	35.440
27	35.649	35.859	36.070	36.282	36.495	36.709	36.924	37.140	37.358	37.576
28	37.796	38.017	38.239	38.462	38.686	38.911	39.137	39.365	39.594	39.824
29	40.055	40.287	40.521	40.755	40.991	41.228	41.466	41.705	41.945	42.187
30	42.430	42.674	42.919	43.166	43.414	43.663	43.913	44.165	44.418	44.672
31	44.927	45.184	45.442	45.701	45.961	46.223	46.486	46.750	47.016	47.283
32	47.551	47.820	48.091	48.364	48.637	48.912	49.188	49.466	49.745	50.025
33	50.307	50.590	50.874	51.160	51.447	51.736	52.026	52.317	52.610	52.904
34	53.200	53.497	53.796	54.096	54.397	54.700	55.004	55.310	55.617	55.926
35	56.236	56.548	56.861	57.176	57.492	57.810	58.129	58.450	58.773	59.097
36	59.422	59.749	60.077	60.407	60.739	61.072	61.407	61.743	62.081	62.421
37	62.762	63.105	63.450	63.796	64.144	64.493	64.844	65.196	65.550	65.906
38	66.264	66.623	66.985	67.347	67.712	68.078	68.446	68.815	69.186	69.559
39	69.934	70.310	70.688	71.068	71.450	71.833	72.218	72.605	72.994	73.385
40	73.777	74.171	74.568	74.966	75.365	75.767	76.170	76.575	76.982	77.391
41	77.802	78.215	78.630	79.046	79.465	79.885	80.307	80.731	81.157	81.585
42	82.015	82.447	82.881	83.316	83.754	84.194	84.636	85.079	85.525	85.973
43	86.423	86.875	87.329	87.785	88.243	88.703	89.165	89.629	90.095	90.564
44	91.034	91.507	91.981	92.458	92.937	93.418	93.901	94.386	94.874	95.363
45	95.855	96.349	96.845	97.343	97.844	98.347	98.852	99.359	99.869	100.38
46	100.89	101.41	101.93	102.45	102.97	103.50	104.03	104.56	105.09	105.62
47	106.16	106.70	107.24	107.78	108.33	108.88	109.43	109.98	110.54	111.10
48	111.66	112.22	112.79	113.36	113.93	114.50	115.07	115.65	116.23	116.81
49	117.40	117.99	118.58	119.17	119.77	120.37	120.97	121.57	122.18	122.79
50	123.40	124.01	124.63	125.25	125.87	126.49	127.12	127.75	128.38	129.01

(continued)

APPENDIX B2

TABLE 94 (CONCLUDED)

SATURATION VAPOR PRESSURE OVER WATER

Temperature °C.	Metric units									
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
50	123.40	124.01	124.63	125.25	125.87	126.49	127.12	127.75	128.38	129.01
51	129.65	130.29	130.93	131.58	132.23	132.88	133.53	134.19	134.84	135.51
52	136.17	136.84	137.51	138.18	138.86	139.54	140.22	140.91	141.60	142.29
53	142.98	143.68	144.38	145.08	145.78	146.49	147.20	147.91	148.63	149.35
54	150.07	150.80	151.53	152.26	152.99	153.73	154.47	155.21	155.96	156.71
55	157.46	158.22	158.97	159.74	160.50	161.27	162.04	162.82	163.59	164.38
56	165.16	165.95	166.74	167.53	168.33	169.13	169.93	170.74	171.55	172.36
57	173.18	174.00	174.82	175.65	176.48	177.31	178.15	178.99	179.83	180.68
58	181.53	182.38	183.24	184.10	184.96	185.83	186.70	187.58	188.45	189.34
59	190.22	191.11	192.00	192.89	193.79	194.69	195.60	196.51	197.42	198.34
60	199.26	200.18	201.11	202.05	202.98	203.92	204.86	205.81	206.76	207.71
61	208.67	209.63	210.59	211.56	212.53	213.51	214.49	215.48	216.46	217.45
62	218.45	219.45	220.45	221.46	222.47	223.48	224.50	225.52	226.54	227.58
63	228.61	229.65	230.70	231.74	232.79	233.85	234.91	235.97	237.03	238.11
64	239.18	240.26	241.34	242.43	243.52	244.62	245.72	246.82	247.93	249.04
65	250.16	251.28	252.41	253.54	254.67	255.81	256.95	258.10	259.25	260.40
66	261.56	262.73	263.90	265.07	266.25	267.43	268.61	269.80	271.00	272.20
67	273.40	274.61	275.82	277.04	278.26	279.49	280.72	281.96	283.20	284.45
68	285.70	286.96	288.21	289.48	290.75	292.02	293.30	294.58	295.86	297.15
69	298.45	299.75	301.06	302.37	303.69	305.01	306.34	307.67	309.00	310.34
70	311.69	313.04	314.39	315.75	317.12	318.49	319.87	321.25	322.63	324.02
71	325.42	326.82	328.22	329.63	331.05	332.47	333.89	335.33	336.76	338.20
72	339.65	341.10	342.56	344.03	345.50	346.97	348.45	349.93	351.42	352.91
73	354.41	355.91	357.43	358.94	360.46	361.99	363.52	365.06	366.61	368.15
74	369.71	371.27	372.84	374.41	375.99	377.57	379.16	380.75	382.35	383.95
75	385.56	387.18	388.80	390.43	392.06	393.70	395.34	396.99	398.65	400.31
76	401.98	403.65	405.34	407.02	408.71	410.41	412.11	413.82	415.53	417.25
77	418.98	420.71	422.45	424.20	425.95	427.71	429.47	431.24	433.02	434.80
78	436.59	438.38	440.18	441.99	443.80	445.62	447.45	449.28	451.11	452.96
79	454.81	456.67	458.53	460.40	462.28	464.16	466.05	467.94	469.85	471.76
80	473.67	475.59	477.52	479.45	481.39	483.34	485.29	487.25	489.22	491.19
81	493.17	495.16	497.15	499.16	501.17	503.18	505.20	507.23	509.26	511.30
82	513.35	515.41	517.47	519.54	521.62	523.70	525.79	527.89	529.99	532.10
83	534.22	536.35	538.48	540.62	542.77	544.92	547.08	549.25	551.43	553.61
84	555.80	557.99	560.20	562.41	564.62	566.85	569.08	571.32	573.57	575.83
85	578.09	580.36	582.64	584.93	587.22	589.52	591.83	594.14	596.46	598.79
86	601.13	603.48	605.83	608.19	610.56	612.94	615.32	617.72	620.12	622.52
87	624.94	627.36	629.79	632.23	634.68	637.13	639.59	642.07	644.55	647.03
88	649.53	652.03	654.54	657.06	659.59	662.12	664.66	667.22	669.78	672.34
89	674.92	677.50	680.09	682.69	685.30	687.92	690.55	693.18	695.82	698.47
90	701.13	703.80	706.47	709.16	711.85	714.55	717.26	719.98	722.71	725.45
91	728.19	730.94	733.70	736.47	739.25	742.04	744.84	747.64	750.46	753.28
92	756.11	758.95	761.80	764.66	767.52	770.40	773.29	776.18	779.09	782.00
93	784.92	787.85	790.79	793.74	796.69	799.66	802.63	805.62	808.61	811.62
94	814.63	817.65	820.69	823.73	826.78	829.84	832.91	835.99	839.08	842.17
95	845.28	848.40	851.52	854.66	857.80	860.96	864.12	867.30	870.48	873.68
96	876.88	880.09	883.31	886.55	889.79	893.04	896.30	899.57	902.86	906.15
97	909.45	912.76	916.08	919.42	922.76	926.11	929.47	932.84	936.23	939.62
98	943.02	946.43	949.85	953.28	956.73	960.18	963.65	967.12	970.61	974.10
99	977.61	981.13	984.65	988.19	991.74	995.30	998.87	1002.45	1006.04	1009.64
100	1013.25	1016.87	1020.50	1024.14	1027.80	1031.46	1035.13	1038.82	1042.51	1046.22
101	1049.94	1053.67	1057.41	1061.16	1064.93	1068.70	1072.49	1076.28	1080.09	1083.91
102	1087.74									

APPENDIX C1

TABLE 96

SATURATION VAPOR PRESSURE OVER ICE

(Explanation on p. 350.)

Tem- pera- ture °C.	Metric units									
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
	Unit: 10 ⁻³ mb.	10 ⁻³ mb.	10 ⁻³ mb.	10 ⁻³ mb.	10 ⁻³ mb.	10 ⁻³ mb.	10 ⁻³ mb.	10 ⁻³ mb.	10 ⁻³ mb.	10 ⁻³ mb.
-100	1.403									
-99	1.719	1.685	1.651	1.617	1.585	1.553	1.522	1.491	1.461	1.432
-98	2.101	2.059	2.019	1.979	1.939	1.901	1.863	1.826	1.790	1.754
-97	2.561	2.511	2.462	2.414	2.366	2.320	2.274	2.230	2.186	2.143
-96	3.117	3.057	2.997	2.939	2.882	2.826	2.771	2.717	2.664	2.612
-95	3.784	3.712	3.640	3.571	3.502	3.435	3.369	3.304	3.240	3.178
-94	4.584	4.497	4.412	4.329	4.246	4.166	4.087	4.009	3.932	3.858
-93	5.542	5.438	5.336	5.236	5.138	5.041	4.946	4.853	4.762	4.672
-92	6.685	6.561	6.439	6.320	6.203	6.088	5.975	5.863	5.754	5.647
-91	8.049	7.902	7.757	7.615	7.475	7.338	7.203	7.070	6.939	6.811
-90	9.672	9.497	9.324	9.155	8.988	8.825	8.664	8.506	8.351	8.199
-89	11.60	11.39	11.19	10.98	10.79	10.59	10.40	10.22	10.03	9.850
-88	13.88	13.63	13.39	13.15	12.92	12.69	12.46	12.24	12.02	11.81
-87	16.58	16.29	16.00	15.72	15.45	15.18	14.91	14.65	14.39	14.13
-86	19.77	19.43	19.09	18.76	18.43	18.11	17.79	17.48	17.18	16.88
-85	23.53	23.13	22.73	22.34	21.96	21.58	21.21	20.84	20.48	20.12
-84	27.96	27.48	27.02	26.56	26.10	25.66	25.22	24.79	24.36	23.94
-83	33.16	32.60	32.05	31.51	30.98	30.45	29.93	29.43	28.93	28.44
-82	39.25	38.60	37.95	37.32	36.70	36.08	35.48	34.88	34.30	33.72
-81	46.38	45.62	44.86	44.12	43.40	42.68	41.97	41.28	40.59	39.91
-80	54.72	53.83	52.95	52.08	51.23	50.39	49.56	48.75	47.95	47.16
-79	64.44	63.40	62.37	61.36	60.37	59.39	58.43	57.48	56.54	55.62
-78	75.77	74.56	73.36	72.19	71.03	69.89	68.77	67.66	66.57	65.50
-77	88.94	87.53	86.14	84.78	83.43	82.11	80.80	79.52	78.25	77.00
-76	104.2	102.6	101.0	99.4	97.85	96.31	94.79	93.29	91.82	90.37
-75	1.220	1.201	1.182	1.164	1.146	1.128	1.110	1.093	1.076	1.059
-74	1.425	1.403	1.382	1.360	1.340	1.319	1.299	1.279	1.259	1.239
-73	1.662	1.637	1.612	1.587	1.563	1.539	1.515	1.492	1.470	1.447
-72	1.936	1.907	1.878	1.850	1.822	1.794	1.767	1.740	1.714	1.688
-71	2.252	2.218	2.185	2.152	2.120	2.088	2.057	2.026	1.995	1.965
-70	2.615	2.576	2.538	2.501	2.464	2.427	2.391	2.355	2.320	2.286
-69	3.032	2.988	2.944	2.901	2.858	2.816	2.775	2.734	2.694	2.654
-68	3.511	3.460	3.410	3.360	3.311	3.263	3.215	3.169	3.122	3.077
-67	4.060	4.002	3.944	3.887	3.831	3.776	3.721	3.668	3.615	3.562
-66	4.688	4.621	4.555	4.490	4.426	4.363	4.301	4.239	4.179	4.119
-65	5.406	5.330	5.255	5.180	5.107	5.035	4.964	4.893	4.824	4.755
-64	6.225	6.138	6.052	5.968	5.884	5.802	5.721	5.640	5.561	5.483
-63	7.159	7.060	6.962	6.866	6.771	6.677	6.584	6.493	6.402	6.313
-62	8.223	8.110	7.999	7.889	7.781	7.674	7.568	7.464	7.361	7.259
-61	9.432	9.304	9.177	9.053	8.930	8.808	8.688	8.569	8.452	8.337
-60	10.80	10.66	10.51	10.37	10.24	10.10	9.961	9.826	9.693	9.562
-59	12.36	12.20	12.03	11.87	11.72	11.56	11.40	11.25	11.10	10.95
-58	14.13	13.94	13.76	13.58	13.40	13.22	13.04	12.87	12.70	12.53
-57	16.12	15.91	15.70	15.49	15.29	15.09	14.89	14.70	14.51	14.32
-56	18.38	18.14	17.91	17.68	17.45	17.22	17.00	16.77	16.55	16.34
-55	20.92	20.65	20.39	20.12	19.86	19.61	19.36	19.11	18.86	18.62
-54	23.80	23.50	23.20	22.90	22.61	22.32	22.03	21.75	21.47	21.19
-53	27.03	26.69	26.35	26.02	25.69	25.37	25.05	24.73	24.42	24.11
-52	30.67	30.29	29.91	29.53	29.17	28.80	28.44	28.08	27.73	27.38
-51	34.76	34.33	33.90	33.48	33.06	32.65	32.24	31.84	31.45	31.06
-50	39.35	38.87	38.39	37.92	37.45	36.99	36.53	36.08	35.64	35.20

(continued)

APPENDIX C2
TABLE 96 (CONCLUDED)

SATURATION VAPOR PRESSURE OVER ICE

Temperature °C.	Metric units									
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
Unit:	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
-50	0.03935	0.03887	0.03839	0.03792	0.03745	0.03699	0.03653	0.03608	0.03564	0.03520
-49	0.04449	0.04395	0.04341	0.04289	0.04236	0.04185	0.04134	0.04083	0.04033	0.03984
-48	0.05026	0.04965	0.04905	0.04846	0.04788	0.04730	0.04673	0.04616	0.04560	0.04504
-47	0.05671	0.05603	0.05536	0.05470	0.05405	0.05340	0.05276	0.05212	0.05150	0.05087
-46	0.06393	0.06317	0.06242	0.06168	0.06095	0.06022	0.05950	0.05879	0.05809	0.05740
-45	0.07198	0.07113	0.07030	0.06947	0.06865	0.06784	0.06704	0.06625	0.06547	0.06469
-44	0.08197	0.08103	0.08009	0.07917	0.07825	0.07735	0.07646	0.07557	0.07470	0.07383
-43	0.09298	0.09193	0.09089	0.08986	0.08884	0.08784	0.08684	0.08586	0.08489	0.08392
-42	0.1021	0.1010	0.09981	0.09866	0.09753	0.09641	0.09530	0.09420	0.09312	0.09204
-41	0.1145	0.1132	0.1119	0.1107	0.1094	0.1082	0.1070	0.1057	0.1045	0.1033
-40	0.1283	0.1268	0.1254	0.1240	0.1226	0.1212	0.1198	0.1185	0.1171	0.1158
-39	0.1436	0.1420	0.1404	0.1389	0.1373	0.1358	0.1343	0.1328	0.1313	0.1298
-38	0.1606	0.1588	0.1571	0.1553	0.1536	0.1519	0.1502	0.1485	0.1469	0.1452
-37	0.1794	0.1774	0.1755	0.1736	0.1717	0.1698	0.1679	0.1661	0.1642	0.1624
-36	0.2002	0.1980	0.1959	0.1938	0.1917	0.1896	0.1875	0.1855	0.1834	0.1814
-35	0.2233	0.2209	0.2185	0.2161	0.2138	0.2115	0.2092	0.2069	0.2047	0.2024
-34	0.2488	0.2461	0.2435	0.2409	0.2383	0.2357	0.2332	0.2307	0.2282	0.2257
-33	0.2769	0.2740	0.2711	0.2682	0.2653	0.2625	0.2597	0.2569	0.2542	0.2515
-32	0.3079	0.3047	0.3014	0.2983	0.2951	0.2920	0.2889	0.2859	0.2828	0.2799
-31	0.3421	0.3385	0.3350	0.3315	0.3280	0.3246	0.3212	0.3178	0.3145	0.3112
-30	0.3798	0.3759	0.3720	0.3681	0.3643	0.3605	0.3567	0.3530	0.3494	0.3457
-29	0.4213	0.4170	0.4127	0.4084	0.4042	0.4000	0.3959	0.3918	0.3877	0.3838
-28	0.4669	0.4621	0.4574	0.4527	0.4481	0.4435	0.4390	0.4345	0.4300	0.4256
-27	0.5170	0.5118	0.5066	0.5014	0.4964	0.4913	0.4863	0.4814	0.4765	0.4717
-26	0.5720	0.5663	0.5606	0.5549	0.5493	0.5438	0.5383	0.5329	0.5276	0.5222
-25	0.6323	0.6260	0.6198	0.6136	0.6075	0.6015	0.5955	0.5895	0.5836	0.5778
-24	0.6985	0.6916	0.6848	0.6780	0.6713	0.6646	0.6580	0.6515	0.6450	0.6386
-23	0.7709	0.7634	0.7559	0.7485	0.7412	0.7339	0.7267	0.7195	0.7125	0.7055
-22	0.8502	0.8419	0.8338	0.8257	0.8176	0.8097	0.8018	0.7940	0.7862	0.7785
-21	0.9370	0.9280	0.9190	0.9101	0.9013	0.8926	0.8840	0.8754	0.8669	0.8585
-20	1.032	1.022	1.012	1.002	0.9928	0.9833	0.9739	0.9645	0.9553	0.9461
-19	1.135	1.124	1.114	1.103	1.092	1.082	1.072	1.062	1.052	1.042
-18	1.248	1.236	1.225	1.213	1.201	1.190	1.179	1.168	1.157	1.146
-17	1.371	1.358	1.345	1.333	1.320	1.308	1.296	1.284	1.272	1.260
-16	1.506	1.492	1.478	1.464	1.451	1.437	1.424	1.410	1.397	1.384
-15	1.652	1.637	1.622	1.607	1.592	1.577	1.562	1.548	1.534	1.520
-14	1.811	1.795	1.778	1.762	1.746	1.730	1.714	1.698	1.683	1.667
-13	1.984	1.966	1.948	1.930	1.913	1.895	1.878	1.861	1.844	1.827
-12	2.172	2.153	2.133	2.114	2.095	2.076	2.057	2.039	2.020	2.002
-11	2.376	2.355	2.334	2.313	2.292	2.271	2.251	2.231	2.211	2.191
-10	2.597	2.574	2.551	2.529	2.506	2.484	2.462	2.440	2.419	2.397
-9	2.837	2.812	2.787	2.763	2.739	2.715	2.691	2.667	2.644	2.620
-8	3.097	3.070	3.043	3.017	2.991	2.965	2.939	2.913	2.888	2.862
-7	3.379	3.350	3.321	3.292	3.264	3.236	3.208	3.180	3.152	3.124
-6	3.685	3.653	3.622	3.591	3.560	3.529	3.499	3.468	3.438	3.409
-5	4.015	3.981	3.947	3.913	3.879	3.846	3.813	3.781	3.748	3.717
-4	4.372	4.335	4.298	4.262	4.226	4.190	4.154	4.119	4.084	4.049
-3	4.757	4.717	4.678	4.638	4.600	4.561	4.523	4.485	4.447	4.409
-2	5.173	5.130	5.087	5.045	5.003	4.961	4.920	4.878	4.838	4.797
-1	5.623	5.577	5.530	5.485	5.439	5.394	5.349	5.305	5.260	5.217
0	6.107	6.057	6.007	5.958	5.909	5.860	5.812	5.764	5.717	5.670

VITA

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