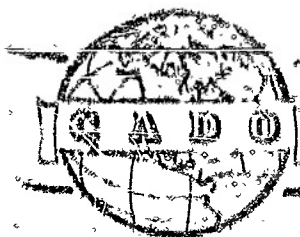


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WRIGHT-PATTERSON AIR FORCE BASE - DAYTON, OHIO

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Tables of Equivalent Potential Temperature for the Standard Constant-Pressure Surfaces

(Not known)

U. S. Air Force, Air Weather Service, Washington, D. C.

(Same)

65186

(None)

TR-108-6

(Same)

May '46

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English

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tables

Tables of equivalent potential temperature in °A for the surfaces of the earth are presented. The equivalent potential temperatures are given for 1000, 800, 650, 500, and 300 millibar isobaric surfaces. The condensation temperature is given in °C in terms of temperature and relative humidity. A rule is outlined for the graphical construction of isopleths of equivalent potential temperature on constant-pressure surfaces.

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Meteorology (30)

Radiation and Temperature (4)

Temperature data - Ground and upper air (02016)

AIR DOCUMENTS DIVISION, 7-2
AMC, WRIGHT FIELD
MICROFILM No.

R 2983 F

AIR WEATHER SERVICE
TECHNICAL REPORT 105-5

TABLES OF
EQUIVALENT POTENTIAL TEMPERATURE
FOR THE
STANDARD CONSTANT-PRESSURE SURFACES



MAY 1946

HEADQUARTERS AIR WEATHER SERVICE
WASHINGTON, D.C.

The Tabular Entry is the Equivalent Potential Temperature for the 1000 Millibar Isobaric Surface. The Corrections Give the Equivalent Potential Temperature increment at ten mb. pressure intervals from 1000mb.

$\bar{p} = 1000 \text{ mb}$

[illegible]

The Tabular Data is the Equivalent Potential Temperature for the 900 Millibar Isobaric Surface. The Corrections Give the Equivalent Potential Temperature increment at ten mb. pressure intervals from 800 mb.

Relative Humidity in %

[illegible]

EQUIVALENT POTENTIAL TEMPERATURE
IN °A FOR 850 MILLIBAR ISOBAR SURFACE

P = 850mb

Relative Humidity in %

Temp. in °C	0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%	Temp. in °C
-40°	243.9	243.9	243.9	243.9	243.8	243.0	244.0	244.0	244.0	244.0	244.0	244.0	244.0	244.0	244.0	244.1	244.1	244.1	244.1	244.1	244.1	-40°
-38°	244.8	244.8	244.8	244.8	244.8	244.0	245.0	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.1	245.2	245.2	245.2	245.2	245.2	245.2	-38°
-36°	245.1	245.1	245.1	245.1	245.1	245.1	246.1	246.2	246.2	246.2	246.2	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3	-36°
-34°	247.1	247.1	247.1	247.1	247.1	247.1	247.1	247.2	247.3	247.3	247.3	247.3	247.3	247.3	247.3	247.4	247.4	247.4	247.4	247.4	247.4	-34°
-32°	248.1	248.1	248.1	248.1	248.2	248.2	248.2	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.4	248.4	248.4	248.4	248.4	248.4	-32°
-30°	248.1	248.1	248.2	248.2	248.3	248.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.3	249.4	249.4	249.4	249.4	249.4	249.4	-30°
-28°	250.3	250.3	250.4	250.4	250.4	250.4	250.5	250.9	250.6	250.6	250.6	250.7	250.7	250.7	250.8	250.8	250.8	250.8	250.8	250.8	250.8	-28°
-26°	251.3	251.3	251.4	251.4	251.4	251.4	251.5	251.9	251.9	251.9	251.9	251.9	251.9	251.9	251.9	252.0	252.0	252.0	252.0	252.0	252.0	-26°
-24°	252.3	252.3	252.4	252.4	252.4	252.4	252.5	252.6	252.6	252.6	252.6	252.7	252.7	252.7	252.7	252.8	252.8	252.8	252.8	252.8	252.8	-24°
-22°	253.4	253.4	253.5	253.5	253.5	253.5	253.6	253.7	253.7	253.7	253.7	253.8	253.8	253.8	253.8	253.9	253.9	253.9	253.9	253.9	253.9	-22°
-20°	254.4	254.4	254.5	254.5	254.5	254.5	254.6	254.6	254.6	254.6	254.6	254.7	254.7	254.7	254.7	254.8	254.8	254.8	254.8	254.8	254.8	-20°
-18°	255.5	255.5	255.6	255.6	255.6	255.6	255.7	255.7	255.7	255.7	255.7	255.8	255.8	255.8	255.8	255.9	255.9	255.9	255.9	255.9	255.9	-18°
-16°	256.5	256.5	256.6	256.6	256.6	256.6	256.7	256.7	256.7	256.7	256.7	256.8	256.8	256.8	256.8	256.9	256.9	256.9	256.9	256.9	256.9	-16°
-14°	257.6	257.6	257.7	257.7	257.7	257.7	257.8	257.8	257.8	257.8	257.8	257.9	257.9	257.9	257.9	258.0	258.0	258.0	258.0	258.0	258.0	-14°
-12°	258.6	258.6	258.7	258.7	258.7	258.7	258.8	258.8	258.8	258.8	258.8	258.9	258.9	258.9	258.9	259.0	259.0	259.0	259.0	259.0	259.0	-12°
-10°	259.7	259.7	259.8	259.8	259.8	259.8	259.9	259.9	259.9	259.9	259.9	260.0	260.0	260.0	260.0	260.1	260.1	260.1	260.1	260.1	260.1	-10°
-8°	260.7	260.7	260.8	260.8	260.8	260.8	260.9	260.9	260.9	260.9	260.9	261.0	261.0	261.0	261.0	261.1	261.1	261.1	261.1	261.1	261.1	-8°
-6°	261.7	261.7	261.8	261.8	261.8	261.8	261.9	261.9	261.9	261.9	261.9	262.0	262.0	262.0	262.0	262.1	262.1	262.1	262.1	262.1	262.1	-6°
-4°	262.7	262.7	262.8	262.8	262.8	262.8	262.9	262.9	262.9	262.9	262.9	263.0	263.0	263.0	263.0	263.1	263.1	263.1	263.1	263.1	263.1	-4°
-2°	263.7	263.7	263.8	263.8	263.8	263.8	263.9	263.9	263.9	263.9	263.9	264.0	264.0	264.0	264.0	264.1	264.1	264.1	264.1	264.1	264.1	-2°
0°	264.7	264.7	264.8	264.8	264.8	264.8	264.9	264.9	264.9	264.9	264.9	265.0	265.0	265.0	265.0	265.1	265.1	265.1	265.1	265.1	265.1	0°
+2°	265.7	265.7	265.8	265.8	265.8	265.8	265.9	265.9	265.9	265.9	265.9	266.0	266.0	266.0	266.0	266.1	266.1	266.1	266.1	266.1	266.1	+2°
+4°	266.7	266.7	266.8	266.8	266.8	266.8	266.9	266.9	266.9	266.9	266.9	267.0	267.0	267.0	267.0	267.1	267.1	267.1	267.1	267.1	267.1	+4°
+6°	267.7	267.7	267.8	267.8	267.8	267.8	267.9	267.9	267.9	267.9	267.9	268.0	268.0	268.0	268.0	268.1	268.1	268.1	268.1	268.1	268.1	+6°
+8°	268.7	268.7	268.8	268.8	268.8	268.8	268.9	268.9	268.9	268.9	268.9	269.0	269.0	269.0	269.0	269.1	269.1	269.1	269.1	269.1	269.1	+8°
+10°	269.7	269.7	269.8	269.8	269.8	269.8	269.9	269.9	269.9	269.9	269.9	270.0	270.0	270.0	270.0	270.1	270.1	270.1	270.1	270.1	270.1	+10°
+12°	270.7	270.7	270.8	270.8	270.8	270.8	270.9	270.9	270.9	270.9	270.9	271.0	271.0	271.0	271.0	271.1	271.1	271.1	271.1	271.1	271.1	+12°
+14°	271.7	271.7	271.8	271.8	271.8	271.8	271.9	271.9	271.9	271.9	271.9	272.0	272.0	272.0	272.0	272.1	272.1	272.1	272.1	272.1	272.1	+14°
+16°	272.7	272.7	272.8	272.8	272.8	272.8	272.9	272.9	272.9	272.9	272.9	273.0	273.0	273.0	273.0	273.1	273.1	273.1	273.1	273.1	273.1	+16°
+18°	273.7	273.7	273.8	273.8	273.8	273.8	273.9	273.9	273.9	273.9	273.9	274.0	274.0	274.0	274.0	274.1	274.1	274.1	274.1	274.1	274.1	+18°
+20°	274.7	274.7	274.8	274.8	274.8	274.8	274.9	274.9	274.9	274.9	274.9	275.0	275.0	275.0	275.0	275.1	275.1	275.1	275.1	275.1	275.1	+20°
+22°	275.7	275.7	275.8	275.8	275.8	275.8	275.9	275.9	275.9	275.9	275.9	276.0	276.0	276.0	276.0	276.1	276.1	276.1	276.1	276.1	276.1	+22°
+24°	276.7	276.7	276.8	276.8	276.8	276.8	276.9	276.9	276.9	276.9	276.9	277.0	277.0	277.0	277.0	277.1	277.1	277.1	277.1	277.1	277.1	+24°
+26°	277.7	277.7	277.8	277.8	277.8	277.8	277.9	277.9	277.9	277.9	277.9	278.0	278.0	278.0	278.0	278.1	278.1	278.1	278.1	278.1	278.1	+26°
+28°	278.7	278.7	278.8	278.8	278.8	278.8	278.9	278.9	278.9	278.9	278.9	279.0	279.0	279.0	279.0	279.1	279.1	279.1	279.1	279.1	279.1	+28°
+30°	279.7	279.7	279.8	279.8	279.8	279.8	279.9	279.9	279.9	279.9	279.9	280.0	280.0	280.0	280.0	280.1	280.1	280.1	280.1	280.1	280.1	+30°
+32°	280.7	280.7	280.8	280.8	280.8	280.8	280.9	280.9	280.9	280.9	280.9	281.0	281.0	281.0	281.0	281.1	281.1	281.1	281.1	281.1	281.1	+32°
+34°	281.7	281.7	281.8	281.8	281.8	281.8	281.9	281.9	281.9	281.9	281.9	282.0	282.0	282.0	282.0	282.1	282.1	282.1	282.1	282.1	282.1	+34°
+36°	282.7	282.7	282.8	282.8	282.8	282.8	282.9	282.9	282.9	282.9	282.9	283.0	283.0	283.0	283.0	283.1	283.1	283.1	283.1	283.1	283.1	+36°
+38°	283.7	283.7	283.8	283.8	283.8	283.8	283.9	283.9	283.9	283.9	283.9	284.0	284.0	284.0	284.0	284.1	284.1	284.1	284.1	284.1	284.1	+38°
+40°	284.7	284.7	284.8	284.8	284.8	284.8	284.9	284.9	284.9	284.9	284.9	285.0	285.0	285.0	285.0	285.1	285.1	285.1	285.1	285.1	285.1	+40°
+42°	285.7	285.7	285.8	285.8	285.8	285.8	285.9	285.9	285.9	285.9	285.9	286.0	286.0	286.0	286.0	286.1	286.1	286.1	286.1	286.1	286.1	+42°
+44°	286.7	286.7	286.8	286.8	286.8	286.8	286.9	286.9	286.9	286.9	286.9	287.0	287.0	287.0	287.0	287.1	287.1	287.1	287.1	287.1	287.1	+44°
+46°	287.7	287.7	287.8	287.8	287.8	287.8	287.9	287.9	287.9	287.9	287.9	288.0	288.0	288.0	288.0	288.1	288.1	288.1	288.1	288.1	288.1	+46°
+48°	288.7	288.7	288.8	288.8	288.8	288.8	288.9	288.9	288.9	288.9	288.9	289.0	289.0	289.0	289.0	289.1	289.1	289.1	289.1	289.1	289.1	+48°
+50°	289.7	289.7	289.8	289.8	289.8	289.8	289.9	289.9	289.9	289.9	289.9	290.0	290.0	290.0	290.0	290.1	290.1	290.1	290.1	290.1	290.1	+50°
+52°	290.7	290.7	290.8	290.8	290.8	290.8	290.9	290.9	290.9	290.9	290.9	291.0	291.0	291.0	291.0	291.1	291.1	291.1	291.1	291.1	291.1	+52°
+54°	291.7	291.7	291.8	291.8	291.8	291.8	291.9	291.9	291.9	291.9	291.9	292.0	292.0	292.0	292.0	292.1	292.1	292.1	292.1	292.1	292.1	+54°
+56°	292.7	292.7	292.8	292.8	292.8	292.8	292.9	292.9	292.9	292.9	292.9	293.0	293.0	293.0	293.0	293.1	293.1	293.1	293.1	293.1	293.1	+56°
+58°	293.7	293.7	293.8	293.8	293.8	293.8	293.9	293.9	293.9	293.9	293.9	294.0	294.0	294.0	294.0	294.1	294.1	294.1	294.1	294.1	294.1	+58°
+60°	294.7	294.7	294.8	294.8	294.8	294.8	294.9	294.9	294.9	294.9	294.9	295.0	295.0	295.0	295.0	295.1	295.1	295.1	295.1	295.1	295.1	+60°
+62°	295.7	295.7	295.8	295.8	295.8	295.8	295.9	295.9	295.9	295.9	295.9	296.0	296.0	296.0	296.0	296.1	296.1	296.1	296.1	296.1	296.1	+62°
+64°	296.7	296.7	296.8																			

CONDENSATION TEMPERATURE
IN °C IN TERMS OF TEMPERATURE AND RELATIVE HUMIDITY

Temp. in °C	Relative Humidity in %																Temp. in °C	
	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%	
-40°	-57.4	-55.5	-53.5	-51.4	-49.3	-47.1	-44.8	-42.5	-40.2	-37.9	-35.6	-33.3	-31.0	-28.7	-26.4	-24.1	-21.8	-40°
-39°	-56.6	-54.6	-52.5	-50.3	-48.1	-45.8	-43.5	-41.2	-38.9	-36.6	-34.3	-32.0	-29.7	-27.4	-25.1	-22.8	-20.5	-39°
-38°	-55.8	-53.7	-51.5	-49.2	-46.9	-44.5	-42.2	-39.9	-37.5	-35.2	-32.8	-30.5	-28.2	-25.8	-23.5	-21.2	-18.9	-38°
-37°	-54.9	-52.7	-50.4	-48.0	-45.6	-43.2	-40.8	-38.4	-36.0	-33.6	-31.2	-28.8	-26.4	-24.0	-21.6	-19.2	-16.8	-37°
-36°	-54.0	-51.7	-49.3	-46.8	-44.3	-41.8	-39.3	-36.8	-34.3	-31.8	-29.3	-26.8	-24.3	-21.8	-19.3	-16.8	-14.3	-36°
-35°	-53.0	-50.6	-48.1	-45.5	-42.9	-40.3	-37.7	-35.1	-32.5	-29.9	-27.3	-24.7	-22.1	-19.5	-16.9	-14.3	-11.7	-35°
-34°	-52.1	-49.6	-47.0	-44.3	-41.6	-38.9	-36.2	-33.5	-30.8	-28.1	-25.4	-22.7	-20.0	-17.3	-14.6	-11.9	-9.2	-34°
-33°	-51.2	-48.6	-45.9	-43.1	-40.3	-37.5	-34.7	-31.9	-29.1	-26.3	-23.5	-20.7	-17.9	-15.1	-12.3	-9.5	-6.7	-33°
-32°	-50.4	-47.7	-44.9	-42.0	-39.1	-36.2	-33.3	-30.4	-27.5	-24.6	-21.7	-18.8	-15.9	-13.0	-10.1	-7.2	-4.3	-32°
-31°	-49.5	-46.7	-43.8	-40.8	-37.8	-34.8	-31.8	-28.8	-25.8	-22.8	-19.8	-16.8	-13.8	-10.8	-7.8	-4.8	-1.8	-31°
-30°	-48.6	-45.7	-42.7	-39.6	-36.5	-33.4	-30.3	-27.2	-24.1	-21.0	-17.9	-14.8	-11.7	-8.6	-5.5	-2.4	0.5	-30°
-29°	-47.7	-44.7	-41.6	-38.5	-35.3	-32.1	-28.9	-25.7	-22.5	-19.3	-16.1	-12.9	-9.7	-6.5	-3.3	-0.1	2.9	-29°
-28°	-46.8	-43.7	-40.5	-37.3	-34.0	-30.7	-27.4	-24.1	-20.8	-17.5	-14.2	-10.9	-7.6	-4.3	-1.0	2.2	5.0	-28°
-27°	-45.9	-42.7	-39.4	-36.1	-32.7	-29.3	-25.9	-22.5	-19.1	-15.7	-12.3	-8.9	-5.5	-2.1	1.2	3.8	6.4	-27°
-26°	-45.0	-41.7	-38.3	-34.9	-31.4	-27.9	-24.4	-20.9	-17.4	-13.9	-10.4	-6.9	-3.4	0.1	2.5	4.9	7.3	-26°
-25°	-44.1	-40.7	-37.2	-33.7	-30.1	-26.5	-22.9	-19.3	-15.7	-12.1	-8.5	-4.9	-1.3	2.2	4.5	6.8	9.1	-25°
-24°	-43.4	-40.0	-36.4	-32.8	-29.1	-25.4	-21.7	-18.0	-14.3	-10.6	-6.9	-3.2	0.4	2.7	5.0	7.2	9.5	-24°
-23°	-42.8	-39.4	-35.7	-32.0	-28.3	-24.5	-20.7	-16.9	-13.1	-9.3	-5.5	-1.7	2.0	4.2	6.4	8.6	10.8	-23°
-22°	-42.1	-38.7	-35.0	-31.2	-27.4	-23.6	-19.7	-15.9	-12.1	-8.3	-4.5	-0.7	2.2	4.4	6.6	8.8	11.0	-22°
-21°	-41.4	-38.0	-34.2	-30.4	-26.6	-22.7	-18.8	-14.9	-11.0	-7.1	-3.2	0.6	2.7	4.9	7.1	9.3	11.5	-21°
-20°	-40.6	-37.1	-33.2	-29.4	-25.5	-21.6	-17.7	-13.8	-9.9	-6.0	-2.1	1.7	3.8	5.9	8.0	10.1	12.2	-20°
-19°	-39.7	-36.2	-32.2	-28.5	-24.5	-20.5	-16.6	-12.6	-8.7	-4.7	-0.8	2.1	4.2	6.3	8.4	10.5	12.6	-19°
-18°	-38.8	-35.3	-31.2	-27.5	-23.4	-19.4	-15.4	-11.4	-7.4	-3.4	0.5	2.6	4.7	6.8	8.9	11.0	13.1	-18°
-17°	-37.9	-34.4	-30.3	-26.6	-22.4	-18.3	-14.3	-10.3	-6.3	-2.3	1.6	3.7	5.8	7.9	10.0	12.1	14.2	-17°
-16°	-37.0	-33.5	-29.4	-25.7	-21.5	-17.4	-13.4	-9.4	-5.4	-1.4	2.5	4.6	6.7	8.8	10.9	13.0	15.1	-16°
-15°	-36.1	-32.6	-28.5	-24.8	-20.6	-16.5	-12.5	-8.5	-4.5	-0.5	2.4	4.5	6.6	8.7	10.8	12.9	15.0	-15°
-14°	-35.4	-31.9	-27.8	-24.0	-19.8	-15.7	-11.7	-7.7	-3.7	0.3	2.3	4.4	6.5	8.6	10.7	12.8	14.9	-14°
-13°	-34.8	-31.3	-27.2	-23.4	-19.2	-15.1	-11.1	-7.1	-3.1	0.9	2.2	4.3	6.4	8.5	10.6	12.7	14.8	-13°
-12°	-34.0	-30.5	-26.4	-22.6	-18.4	-14.3	-10.3	-6.3	-2.3	1.5	3.6	5.7	7.8	9.9	12.0	14.1	16.2	-12°
-11°	-33.1	-29.6	-25.5	-21.7	-17.5	-13.4	-9.4	-5.4	-1.4	2.4	4.5	6.6	8.7	10.8	12.9	15.0	17.1	-11°
-10°	-32.3	-28.8	-24.7	-20.9	-16.7	-12.6	-8.6	-4.6	-0.6	2.3	4.4	6.5	8.6	10.7	12.8	14.9	17.0	-10°
-9°	-31.4	-27.9	-23.8	-20.0	-15.8	-11.7	-7.7	-3.7	0.3	2.2	4.3	6.4	8.5	10.6	12.7	14.8	16.9	-9°
-8°	-30.5	-27.0	-22.9	-19.1	-14.9	-10.8	-6.8	-2.8	1.2	2.1	4.2	6.3	8.4	10.5	12.6	14.7	16.8	-8°
-7°	-29.6	-26.1	-22.0	-18.2	-14.0	-9.9	-5.9	-1.9	2.1	2.0	4.1	6.2	8.3	10.4	12.5	14.6	16.7	-7°
-6°	-28.7	-25.2	-21.1	-17.3	-13.1	-9.0	-5.0	-1.0	3.0	1.9	4.0	6.1	8.2	10.3	12.4	14.5	16.6	-6°
-5°	-27.8	-24.3	-20.2	-16.4	-12.2	-8.1	-4.1	0.0	3.9	2.0	4.1	6.2	8.3	10.4	12.5	14.6	16.7	-5°
-4°	-27.0	-23.5	-19.4	-15.6	-11.4	-7.3	-3.3	0.7	3.8	1.9	4.0	6.1	8.2	10.3	12.4	14.5	16.6	-4°
-3°	-26.2	-22.7	-18.6	-14.8	-10.6	-6.5	-2.5	1.4	3.7	1.8	3.9	6.0	8.1	10.2	12.3	14.4	16.5	-3°
-2°	-25.3	-21.8	-17.7	-13.9	-9.7	-5.6	-1.6	2.3	3.6	1.7	3.8	5.9	8.0	10.1	12.2	14.3	16.4	-2°
-1°	-24.5	-21.0	-16.9	-13.1	-8.9	-4.8	-0.8	3.2	3.5	1.6	3.7	5.8	7.9	10.0	12.1	14.2	16.3	-1°
0°	-23.6	-20.1	-16.0	-12.2	-8.0	-3.9	0.1	4.1	3.4	1.5	3.6	5.7	7.8	9.9	12.0	14.1	16.2	0°
+1°	-22.8	-19.3	-15.2	-11.3	-7.1	-3.1	1.0	5.0	4.3	1.4	3.5	5.6	7.7	9.8	11.9	14.0	16.1	+1°
+2°	-22.0	-18.5	-14.4	-10.4	-6.2	-2.2	1.9	5.9	5.2	1.3	3.4	5.5	7.6	9.7	11.8	13.9	16.0	+2°
+3°	-21.1	-17.6	-13.5	-9.5	-5.3	-1.3	2.8	6.8	6.1	1.2	3.3	5.4	7.5	9.6	11.7	13.8	15.9	+3°
+4°	-20.2	-16.7	-12.6	-8.6	-4.4	-0.4	3.7	7.7	7.0	1.1	3.2	5.3	7.4	9.5	11.6	13.7	15.8	+4°
+5°	-19.4	-15.8	-11.7	-7.7	-3.5	0.5	4.6	8.6	7.9	1.0	3.1	5.2	7.3	9.4	11.5	13.6	15.7	+5°
+6°	-18.5	-14.9	-10.8	-6.8	-2.6	1.4	5.5	9.5	8.8	0.9	3.0	5.1	7.2	9.3	11.4	13.5	15.6	+6°
+7°	-17.6	-14.0	-9.9	-5.9	-1.7	2.3	6.4	10.4	9.7	0.8	2.9	5.0	7.1	9.2	11.3	13.4	15.5	+7°
+8°	-16.7	-13.1	-9.0	-5.0	-0.8	3.2	7.3	11.3	10.6	0.7	2.8	4.9	7.0	9.1	11.2	13.3	15.4	+8°
+9°	-15.8	-12.2	-8.1	-4.1	0.1	4.1	8.2	12.2	11.5	0.6	2.7	4.8	6.9	9.0	11.1	13.2	15.3	+9°
+10°	-14.9	-11.3	-7.2	-3.2	1.0	5.0	9.1	13.1	12.4	0.5	2.6	4.7	6.8	8.9	11.0	13.1	15.2	+10°
+11°	-14.0	-10.4	-6.3	-2.3	1.9	5.9	10.0	14.0	13.3	0.4	2.5	4.6	6.7	8.8	10.9	13.0	15.1	+11°
+12°	-13.1	-9.5	-5.4	-1.4	2.8	6.8	10.9	14.9	14.2	0.3	2.4	4.5	6.6	8.7	10.8	12.9	15.0	+12°
+13°	-12.2	-8.6	-4.5	-0.5	3.7	7.7	11.8	15.8	15.1	0.2	2.3	4.4	6.5	8.6	10.7	12.8	14.9	+13°
+14°	-11.3	-7.7	-3.6	0.4	4.6	8.6	12.7	16.7	16.0	0.1	2.2	4.3	6.4	8.5	10.6	12.7	14.8	+14°
+15°	-10.4	-6.8	-2.7	1.3	5.5	9.5	13.6	17.6	16.9	0.0	2.1	4.2	6.3	8.4	10.5	12.6	14.7	+15°
+16°	-9.5	-5.9	-1.8	2.2	6.4	10.4	14.5	18.5	17.8	0.0	2.0	4.1	6.2	8.3	10.4	12.5	14.6	+16°
+17°	-8.6	-5.0	-0.9	3.1	7.3	11.3	15.4	19.4	18.7	0.0	1.9	4.0	6.1	8.2	10.3	12.4	14.5	+17°
+18°	-7.7	-4.1	0.0	4.0	8.2	12.2	16.3	20.3	19.6	0.0	1.8	3.9	6.0	8.1	10.2	12.3	14.4	+18°
+19°	-6.8	-3.2	0.9	4.9	9.1	13.1	17.2	21.2	20.5	0.0	1.7	3.8	5.9	8.0	10.1	12.2	14.3	+19°
+20°	-5.9	-2.3	1.8	5.8	10.0	14.0	18.1	22.1	21.4	0.0	1.6	3.7	5.8	7.9	10.0	12.1	14.2	+20°
+21°	-5.0	-1.4	2.7	6.7	10.9	14.9	19.0	23.0	22.3	0.0	1.5	3.6	5.7	7.8	9.9	12.0	14.1	+21°
+22°	-4.1	-0.5	3.6	7.6	11.8	15.8	20.0	23.9	23.2	0.0	1.4	3.5	5.6	7.7	9.8	11.9	14.0	+22°
+23°	-3.2	0.4	4.5	8.5	12.7	16.7	20.9	24.8	24.1	0.0	1.3	3.4	5.5	7.6	9.7	11.8	13.9	+23°
+24°	-2.3	1.3	5.4	9.4	13.6	17.6	21.8	25.7	25.0	0.0	1.2	3.3	5.4	7.5	9.6	11.7	13.8	+24°
+25°	-1.4	2.2	6.3	10.3	14.5	18.5	22.7	26.6	26.0	0.0	1.1	3.2	5.3	7.4	9.5	11.6	13.7	+25°
+26°	-0.5	3.1	7.2	11.2	15.4	19.4	23.6	27.5	26.9	0.0	1.0	3.1	5.2	7.3	9.4	11.5	13.6	+26°
+27°	0.4	4.0	8.1	12.1	16.3	20.3	24.5	28.4	27.8	0.0	0.9	3.0	5.1	7.2	9.3	11.4	13.5	+27°
+28°	1.3	4.9	9.0	13.0	17.2	21.2	25.4	29.3	28.7	0.0	0.8	2.9	5.0	7.1	9.2	11.3	13.4	+28°
+29°	2.2	5.8	9.9	13.9	18.1	22.1	26.3	30.2	29.6	0.0	0.7	2.8	4.9	7.0	9.1	11.2	13.3	+29°
+30°	3.1	6.7	10.8	14.8	19.0	23.0	27.2	31.1	30.5	0.0	0.6	2.7	4.8	6.9	9.0	11.1	13.2	+30°
+31°	4.0	7.6	11.7	15.7	19.9	23.9	28.1	32.0	31.4	0.0	0.5	2.6	4.7	6.8	8.9	11.0	13.1	+31°
+3																		

EQUIVALENT POTENTIAL TEMPERATURE IN °A FOR THE 500-MILLIBAR ISOBARIC SURFACE

Relative Humidity in %

P = 590mb

Temp. in °C	0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%	Temp. in °C
-40°	284.0	284.0	284.0	284.1	284.1	284.1	284.2	284.2	284.3	284.3	284.4	284.4	284.5	284.5	284.5	284.5	284.7	284.7	284.8	284.9	284.9	-40°
-38°	285.3	285.3	285.3	285.4	285.4	285.4	285.5	285.5	285.6	285.6	285.7	285.7	285.8	285.8	285.8	285.9	286.0	286.0	286.1	286.1	286.2	-38°
-36°	286.5	286.5	286.5	286.6	286.6	286.7	286.8	286.8	286.8	286.9	287.0	287.0	287.1	287.1	287.2	287.2	287.3	287.3	287.4	287.4	287.5	-36°
-34°	287.7	287.7	287.8	287.8	287.9	287.9	288.0	288.0	288.1	288.1	288.2	288.2	288.3	288.3	288.4	288.4	288.5	288.5	288.6	288.6	288.7	-34°
-32°	288.9	288.9	289.0	289.0	289.1	289.1	289.2	289.2	289.3	289.3	289.4	289.4	289.5	289.5	289.6	289.6	289.7	289.7	289.8	289.8	289.9	-32°
-30°	290.1	290.1	290.2	290.2	290.3	290.3	290.4	290.4	290.5	290.5	290.6	290.6	290.7	290.7	290.8	290.8	290.9	290.9	291.0	291.0	291.1	-30°
-28°	291.3	291.4	291.4	291.5	291.5	291.6	291.7	291.7	291.8	291.8	292.0	292.0	292.1	292.2	292.3	292.3	292.4	292.5	292.5	292.6	292.7	-28°
-26°	292.5	292.6	292.6	292.7	292.7	292.8	292.9	293.0	293.1	293.2	293.3	293.3	293.4	293.5	293.6	293.6	293.7	293.8	293.8	293.9	294.0	-26°
-24°	293.7	293.8	293.9	293.9	294.0	294.1	294.1	294.2	294.3	294.4	294.5	294.5	294.6	294.7	294.8	294.8	294.9	295.0	295.1	295.2	295.3	-24°
-22°	294.9	295.0	295.1	295.2	295.3	295.4	295.5	295.6	295.7	295.8	295.9	296.0	296.1	296.2	296.2	296.3	296.4	296.5	296.6	296.7	296.8	-22°
-20°	296.2	296.3	296.4	296.5	296.6	296.7	296.8	296.9	297.0	297.1	297.2	297.3	297.4	297.5	297.6	297.7	297.8	297.9	298.0	298.1	298.2	-20°
-18°	297.4	297.5	297.6	297.7	297.8	297.9	298.0	298.1	298.2	298.3	298.4	298.5	298.6	298.7	298.8	298.9	299.0	299.1	299.2	299.3	299.4	-18°
-16°	298.6	298.7	298.8	298.9	299.0	299.1	299.2	299.3	299.4	299.5	299.6	299.7	299.8	299.9	300.0	300.1	300.2	300.3	300.4	300.5	300.6	-16°
-14°	299.9	300.0	300.1	300.2	300.3	300.4	300.5	300.6	300.7	300.8	300.9	301.0	301.1	301.2	301.3	301.4	301.5	301.6	301.7	301.8	301.9	-14°
-12°	301.1	301.2	301.3	301.4	301.5	301.6	301.7	301.8	301.9	302.0	302.1	302.2	302.3	302.4	302.5	302.6	302.7	302.8	302.9	303.0	303.1	-12°
-10°	302.3	302.4	302.5	302.6	302.7	302.8	302.9	303.0	303.1	303.2	303.3	303.4	303.5	303.6	303.7	303.8	303.9	304.0	304.1	304.2	304.3	-10°
-8°	303.5	303.6	303.7	303.8	303.9	304.0	304.1	304.2	304.3	304.4	304.5	304.6	304.7	304.8	304.9	305.0	305.1	305.2	305.3	305.4	305.5	-8°
-6°	304.7	304.8	304.9	305.0	305.1	305.2	305.3	305.4	305.5	305.6	305.7	305.8	305.9	306.0	306.1	306.2	306.3	306.4	306.5	306.6	306.7	-6°
-4°	305.9	306.0	306.1	306.2	306.3	306.4	306.5	306.6	306.7	306.8	306.9	307.0	307.1	307.2	307.3	307.4	307.5	307.6	307.7	307.8	307.9	-4°
-2°	307.1	307.2	307.3	307.4	307.5	307.6	307.7	307.8	307.9	308.0	308.1	308.2	308.3	308.4	308.5	308.6	308.7	308.8	308.9	309.0	309.1	-2°
0°	308.4	308.5	308.6	308.7	308.8	308.9	309.0	309.1	309.2	309.3	309.4	309.5	309.6	309.7	309.8	309.9	310.0	310.1	310.2	310.3	310.4	0°
+2°	309.8	309.9	310.0	310.1	310.2	310.3	310.4	310.5	310.6	310.7	310.8	310.9	311.0	311.1	311.2	311.3	311.4	311.5	311.6	311.7	311.8	+2°
+4°	310.8	310.9	311.0	311.1	311.2	311.3	311.4	311.5	311.6	311.7	311.8	311.9	312.0	312.1	312.2	312.3	312.4	312.5	312.6	312.7	312.8	+4°
+6°	312.0	312.1	312.2	312.3	312.4	312.5	312.6	312.7	312.8	312.9	313.0	313.1	313.2	313.3	313.4	313.5	313.6	313.7	313.8	313.9	314.0	+6°
+8°	313.2	313.3	313.4	313.5	313.6	313.7	313.8	313.9	314.0	314.1	314.2	314.3	314.4	314.5	314.6	314.7	314.8	314.9	315.0	315.1	315.2	+8°
+10°	314.4	314.5	314.6	314.7	314.8	314.9	315.0	315.1	315.2	315.3	315.4	315.5	315.6	315.7	315.8	315.9	316.0	316.1	316.2	316.3	316.4	+10°
+12°	315.8	315.9	316.0	316.1	316.2	316.3	316.4	316.5	316.6	316.7	316.8	316.9	317.0	317.1	317.2	317.3	317.4	317.5	317.6	317.7	317.8	+12°
+14°	316.9	317.0	317.1	317.2	317.3	317.4	317.5	317.6	317.7	317.8	317.9	318.0	318.1	318.2	318.3	318.4	318.5	318.6	318.7	318.8	318.9	+14°
+16°	318.0	318.1	318.2	318.3	318.4	318.5	318.6	318.7	318.8	318.9	319.0	319.1	319.2	319.3	319.4	319.5	319.6	319.7	319.8	319.9	320.0	+16°
+18°	319.1	319.2	319.3	319.4	319.5	319.6	319.7	319.8	319.9	320.0	320.1	320.2	320.3	320.4	320.5	320.6	320.7	320.8	320.9	321.0	321.1	+18°
+20°	320.4	320.5	320.6	320.7	320.8	320.9	321.0	321.1	321.2	321.3	321.4	321.5	321.6	321.7	321.8	321.9	322.0	322.1	322.2	322.3	322.4	+20°
+22°	321.6	321.7	321.8	321.9	322.0	322.1	322.2	322.3	322.4	322.5	322.6	322.7	322.8	322.9	323.0	323.1	323.2	323.3	323.4	323.5	323.6	+22°
+24°	322.8	322.9	323.0	323.1	323.2	323.3	323.4	323.5	323.6	323.7	323.8	323.9	324.0	324.1	324.2	324.3	324.4	324.5	324.6	324.7	324.8	+24°
+26°	324.0	324.1	324.2	324.3	324.4	324.5	324.6	324.7	324.8	324.9	325.0	325.1	325.2	325.3	325.4	325.5	325.6	325.7	325.8	325.9	326.0	+26°
+28°	325.2	325.3	325.4	325.5	325.6	325.7	325.8	325.9	326.0	326.1	326.2	326.3	326.4	326.5	326.6	326.7	326.8	326.9	327.0	327.1	327.2	+28°
+30°	326.4	326.5	326.6	326.7	326.8	326.9	327.0	327.1	327.2	327.3	327.4	327.5	327.6	327.7	327.8	327.9	328.0	328.1	328.2	328.3	328.4	+30°
+32°	327.6	327.7	327.8	327.9	328.0	328.1	328.2	328.3	328.4	328.5	328.6	328.7	328.8	328.9	329.0	329.1	329.2	329.3	329.4	329.5	329.6	+32°
+34°	328.8	328.9	329.0	329.1	329.2	329.3	329.4	329.5	329.6	329.7	329.8	329.9	330.0	330.1	330.2	330.3	330.4	330.5	330.6	330.7	330.8	+34°
+36°	330.0	330.1	330.2	330.3	330.4	330.5	330.6	330.7	330.8	330.9	331.0	331.1	331.2	331.3	331.4	331.5	331.6	331.7	331.8	331.9	332.0	+36°
+38°	331.2	331.3	331.4	331.5	331.6	331.7	331.8	331.9	332.0	332.1	332.2	332.3	332.4	332.5	332.6	332.7	332.8	332.9	333.0	333.1	333.2	+38°
+40°	332.4	332.5	332.6	332.7	332.8	332.9	333.0	333.1	333.2	333.3	333.4	333.5	333.6	333.7	333.8	333.9	334.0	334.1	334.2	334.3	334.4	+40°
+42°	333.6	333.7	333.8	333.9	334.0	334.1	334.2	334.3	334.4	334.5	334.6	334.7	334.8	334.9	335.0	335.1	335.2	335.3	335.4	335.5	335.6	+42°
+44°	334.8	334.9	335.0	335.1	335.2	335.3	335.4	335.5	335.6	335.7	335.8	335.9	336.0	336.1	336.2	336.3	336.4	336.5	336.6	336.7	336.8	+44°
+46°	336.0	336.1	336.2	336.3	336.4	336.5	336.6	336.7	336.8	336.9	337.0	337.1	337.2	337.3	337.4	337.5	337.6	337.7	337.8	337.9	338.0	+46°
+48°	337.2	337.3	337.4	337.5	337.6	337.7	337.8	337.9	338.0	338.1	338.2	338.3	338.4	338.5	338.6	338.7	338.8	338.9	339.0	339.1	339.2	+48°
+50°	338.4	338.5	338.6	338.7	338.8	338.9	339.0	339.1	339.2	339.3	339.4	339.5	339.6	339.7	339.8	339.9	340.0	340.1	340.2	340.3	340.4	+50°
+52°	339.6	339.7	339.8	339.9	340.0	340.1	340.2	340.3	340.4	340.5	340.6	340.7	340.8	340.9	341.0	341.1	341.2	341.3	341.4	341.5	341.6	+52°
+54°	340.8	340.9	341.0	341.1	341.2	341.3	341.4	341.5	341.6	341.7	341.8	341.9	342.0	342.1	342.2	342.3	342.4	342.5	342.6	342.7	342.8	+54°
+56°	342.0	342.1	342.2	342.3	342.4	342.5	342.6	342.7	342.8	342.9	343.0	343.1	343.2	343.3	343.4	343.5	343.6	343.7	343.8	343.9	344.0	+56°
+58°	343.2	343.3	343.4	343.5	343.6	343.7	343.8	343.9	344.0	344.1	344.2	344.3	344.4	344.5	344.6	344.7	344.8	344.9	345.0	345.1	345.2	+58°
+60°	344.4	344.5	344.6	344.7	344.8	344.9	345.0	345.1	345.2	345.3	345.4	345.5	345.6	345.7	345.8	345.9	346.0	346.1	346.2	346.3	346.4	+60°
+62°	345.6	345.7	345.8	345.9	346.0	346.1	346.2	346.3	346.4	346.5	346.6	346.7	346.8	346.9	347.0	347.1	347.2	347.3	347.4	347.5	347.6	+62°
+64°	346.8	346																				

EQUIVALENT POTENTIAL TEMPERATURE IN °A FOR THE 700 MILLIBAR ISOBARIC SURFACE

Relative Humidity in %

P = 700mb

Temp. in °C	0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%	Temp. in °C
-40°	258.0	258.0	258.0	258.1	258.1	258.1	258.2	258.2	258.2	258.2	258.2	258.3	258.3	258.3	258.4	258.4	258.4	258.4	258.5	258.5	258.5	-40°
-39°	259.1	259.1	259.2	259.2	259.2	259.2	259.2	259.3	259.3	259.3	259.4	259.4	259.4	259.4	259.5	259.5	259.5	259.5	259.6	259.6	259.6	-39°
-38°	260.2	260.2	260.3	260.3	260.4	260.4	260.4	260.5	260.5	260.5	260.6	260.6	260.6	260.6	260.7	260.7	260.7	260.7	260.8	260.8	260.8	-38°
-37°	261.3	261.3	261.4	261.4	261.5	261.5	261.5	261.6	261.6	261.6	261.7	261.7	261.8	261.8	261.8	261.8	261.8	261.8	261.9	261.9	261.9	-37°
-36°	262.4	262.4	262.5	262.5	262.6	262.6	262.6	262.7	262.7	262.7	262.8	262.8	262.8	262.8	262.9	262.9	262.9	262.9	263.0	263.0	263.0	-36°
-35°	263.5	263.5	263.6	263.6	263.7	263.7	263.7	263.8	263.8	263.8	263.9	263.9	263.9	264.0	264.0	264.0	264.0	264.0	264.1	264.1	264.1	-35°
-34°	264.8	264.8	264.9	264.9	265.0	265.0	265.0	265.0	265.1	265.1	265.1	265.2	265.2	265.2	265.3	265.3	265.3	265.3	265.4	265.4	265.4	-34°
-33°	265.7	265.7	265.8	265.8	265.9	265.9	265.9	266.0	266.0	266.0	266.1	266.1	266.1	266.1	266.2	266.2	266.2	266.2	266.3	266.3	266.3	-33°
-32°	266.8	266.8	266.9	266.9	267.0	267.0	267.0	267.1	267.1	267.1	267.2	267.2	267.2	267.2	267.3	267.3	267.3	267.3	267.4	267.4	267.4	-32°
-31°	267.9	267.9	268.0	268.0	268.1	268.1	268.1	268.2	268.2	268.2	268.3	268.3	268.3	268.3	268.4	268.4	268.4	268.4	268.5	268.5	268.5	-31°
-30°	269.0	269.0	269.1	269.1	269.2	269.2	269.2	269.3	269.3	269.3	269.4	269.4	269.4	269.4	269.5	269.5	269.5	269.5	269.6	269.6	269.6	-30°
-29°	270.2	270.2	270.3	270.3	270.4	270.4	270.4	270.5	270.5	270.5	270.6	270.6	270.6	270.6	270.7	270.7	270.7	270.7	270.8	270.8	270.8	-29°
-28°	271.3	271.3	271.4	271.4	271.5	271.5	271.5	271.6	271.6	271.6	271.7	271.7	271.7	271.7	271.8	271.8	271.8	271.8	271.9	271.9	271.9	-28°
-27°	272.4	272.4	272.5	272.5	272.6	272.6	272.6	272.7	272.7	272.7	272.8	272.8	272.8	272.8	272.9	272.9	272.9	272.9	273.0	273.0	273.0	-27°
-26°	273.5	273.5	273.6	273.6	273.7	273.7	273.7	273.8	273.8	273.8	273.9	273.9	273.9	273.9	274.0	274.0	274.0	274.0	274.1	274.1	274.1	-26°
-25°	274.7	274.7	274.8	274.8	274.9	274.9	274.9	275.0	275.0	275.0	275.1	275.1	275.1	275.1	275.2	275.2	275.2	275.2	275.3	275.3	275.3	-25°
-24°	275.8	275.8	275.9	275.9	276.0	276.0	276.0	276.1	276.1	276.1	276.2	276.2	276.2	276.2	276.3	276.3	276.3	276.3	276.4	276.4	276.4	-24°
-23°	276.9	276.9	277.0	277.0	277.1	277.1	277.1	277.2	277.2	277.2	277.3	277.3	277.3	277.3	277.4	277.4	277.4	277.4	277.5	277.5	277.5	-23°
-22°	278.0	278.0	278.1	278.1	278.2	278.2	278.2	278.3	278.3	278.3	278.4	278.4	278.4	278.4	278.5	278.5	278.5	278.5	278.6	278.6	278.6	-22°
-21°	279.1	279.1	279.2	279.2	279.3	279.3	279.3	279.4	279.4	279.4	279.5	279.5	279.5	279.5	279.6	279.6	279.6	279.6	279.7	279.7	279.7	-21°
-20°	280.2	280.2	280.3	280.3	280.4	280.4	280.4	280.5	280.5	280.5	280.6	280.6	280.6	280.6	280.7	280.7	280.7	280.7	280.8	280.8	280.8	-20°
-19°	281.3	281.3	281.4	281.4	281.5	281.5	281.5	281.6	281.6	281.6	281.7	281.7	281.7	281.7	281.8	281.8	281.8	281.8	281.9	281.9	281.9	-19°
-18°	282.4	282.4	282.5	282.5	282.6	282.6	282.6	282.7	282.7	282.7	282.8	282.8	282.8	282.8	282.9	282.9	282.9	282.9	283.0	283.0	283.0	-18°
-17°	283.5	283.5	283.6	283.6	283.7	283.7	283.7	283.8	283.8	283.8	283.9	283.9	283.9	283.9	284.0	284.0	284.0	284.0	284.1	284.1	284.1	-17°
-16°	284.6	284.6	284.7	284.7	284.8	284.8	284.8	284.9	284.9	284.9	285.0	285.0	285.0	285.0	285.1	285.1	285.1	285.1	285.2	285.2	285.2	-16°
-15°	285.7	285.7	285.8	285.8	285.9	285.9	285.9	286.0	286.0	286.0	286.1	286.1	286.1	286.1	286.2	286.2	286.2	286.2	286.3	286.3	286.3	-15°
-14°	286.8	286.8	286.9	286.9	287.0	287.0	287.0	287.1	287.1	287.1	287.2	287.2	287.2	287.2	287.3	287.3	287.3	287.3	287.4	287.4	287.4	-14°
-13°	287.9	287.9	288.0	288.0	288.1	288.1	288.1	288.2	288.2	288.2	288.3	288.3	288.3	288.3	288.4	288.4	288.4	288.4	288.5	288.5	288.5	-13°
-12°	289.0	289.0	289.1	289.1	289.2	289.2	289.2	289.3	289.3	289.3	289.4	289.4	289.4	289.4	289.5	289.5	289.5	289.5	289.6	289.6	289.6	-12°
-11°	290.1	290.1	290.2	290.2	290.3	290.3	290.3	290.4	290.4	290.4	290.5	290.5	290.5	290.5	290.6	290.6	290.6	290.6	290.7	290.7	290.7	-11°
-10°	291.2	291.2	291.3	291.3	291.4	291.4	291.4	291.5	291.5	291.5	291.6	291.6	291.6	291.6	291.7	291.7	291.7	291.7	291.8	291.8	291.8	-10°
-9°	292.3	292.3	292.4	292.4	292.5	292.5	292.5	292.6	292.6	292.6	292.7	292.7	292.7	292.7	292.8	292.8	292.8	292.8	292.9	292.9	292.9	-9°
-8°	293.4	293.4	293.5	293.5	293.6	293.6	293.6	293.7	293.7	293.7	293.8	293.8	293.8	293.8	293.9	293.9	293.9	293.9	294.0	294.0	294.0	-8°
-7°	294.5	294.5	294.6	294.6	294.7	294.7	294.7	294.8	294.8	294.8	294.9	294.9	294.9	294.9	295.0	295.0	295.0	295.0	295.1	295.1	295.1	-7°
-6°	295.6	295.6	295.7	295.7	295.8	295.8	295.8	295.9	295.9	295.9	296.0	296.0	296.0	296.0	296.1	296.1	296.1	296.1	296.2	296.2	296.2	-6°
-5°	296.7	296.7	296.8	296.8	296.9	296.9	296.9	297.0	297.0	297.0	297.1	297.1	297.1	297.1	297.2	297.2	297.2	297.2	297.3	297.3	297.3	-5°
-4°	297.8	297.8	297.9	297.9	298.0	298.0	298.0	298.1	298.1	298.1	298.2	298.2	298.2	298.2	298.3	298.3	298.3	298.3	298.4	298.4	298.4	-4°
-3°	298.9	298.9	299.0	299.0	299.1	299.1	299.1	299.2	299.2	299.2	299.3	299.3	299.3	299.3	299.4	299.4	299.4	299.4	299.5	299.5	299.5	-3°
-2°	299.0	299.0	299.1	299.1	299.2	299.2	299.2	299.3	299.3	299.3	299.4	299.4	299.4	299.4	299.5	299.5	299.5	299.5	299.6	299.6	299.6	-2°
-1°	300.1	300.1	300.2	300.2	300.3	300.3	300.3	300.4	300.4	300.4	300.5	300.5	300.5	300.5	300.6	300.6	300.6	300.6	300.7	300.7	300.7	-1°
0	301.2	301.2	301.3	301.3	301.4	301.4	301.4	301.5	301.5	301.5	301.6	301.6	301.6	301.6	301.7	301.7	301.7	301.7	301.8	301.8	301.8	0
+1°	302.3	302.3	302.4	302.4	302.5	302.5	302.5	302.6	302.6	302.6	302.7	302.7	302.7	302.7	302.8	302.8	302.8	302.8	302.9	302.9	302.9	+1°
+2°	303.4	303.4	303.5	303.5	303.6	303.6	303.6	303.7	303.7	303.7	303.8	303.8	303.8	303.8	303.9	303.9	303.9	303.9	304.0	304.0	304.0	+2°
+3°	304.5	304.5	304.6	304.6	304.7	304.7	304.7	304.8	304.8	304.8	304.9	304.9	304.9	304.9	305.0	305.0	305.0	305.0	305.1	305.1	305.1	+3°
+4°	305.6	305.6	305.7	305.7	305.8	305.8	305.8	305.9	305.9	305.9	306.0	306.0	306.0	306.0	306.1	306.1	306.1	306.1	306.2	306.2	306.2	+4°
+5°	306.7	306.7	306.8	306.8	306.9	306.9	306.9	307.0	307.0	307.0	307.1	307.1	307.1	307.1	307.2	307.2	307.2	307.2	307.3	307.3	307.3	+5°
+6°	307.8	307.8	307.9	307.9	308.0	308.0	308.0	308.1	308.1	308.1	308.2	308.2	308.2	308.2	308.3	308.3	308.3	308.3	308.4	308.4	308.4	+6°
+7°	308.9	308.9	309.0	309.0	309.1	309.1	309.1	309.2	309.2	309.2	309.3	309.3	309.3	309.3	309.4	309.4	309.4	309.4	309.5	309.5	309.5	+7°
+8°	309.0	309.0	309.1	309.1	309.2	309.2	309.2	309.3	309.3	309.3	309.4	309.4	309.4	309.4	309.5	309.5	309.5	309.5	309.6	309.6	309.6	+8°
+9°	310.1	310.1	310.2	310.2	310.3	310.3	310.3	310.4	310.4	310.4	310.5	310.5	310.5	310.5	310.6	310.6	310.6	310.6	310.7	310.7	310.7	+9°
+10°	311.2	311.2	311.3	311.3	311.4	311.4	311.4	311.5	311.5	311.5	311.6	311.6	311.6	311.6	311.7	311.7	311.7	311.7	311.8	311.8	311.8	+10°
+11°	312.3	312.3	312.4	312.4	312.5	312.5	312.5	312.6	312.6	312.6	312.7	312.7	312.7	312.7	312.8	312.8	312.8	312.8	312.9	312.9	312.9	+11°
+12°	313.4	313.4	313.5	313.5</																		

EQUIVALENT POTENTIAL TEMPERATURE AND CONDENSATION TEMPERATURE
IN °A FOR THE 1000 MILLIBAR ISOBARIC SURFACE

P = 1000mb

w	t_d	θ	313	308	303	298	293	288	283	278	273	268	263	258	253	248	243	238	233
		t	+40.0	+35.0	+30.0	+25.0	+20.0	+15.0	+10.0	+5.0	0.0	-5.0	-10.0	-15.0	-20.0	-25.0	-30.0	-35.0	-40.0
0.5	-25.3	θ_e	314.7	309.6	304.6	299.6	294.6	289.5	284.5	279.5	274.5	269.4	264.4	259.4	254.3	249.3	244.3	239.3	234.3
		t_c	235.2	236.2	237.1	238.1	239.1	240.0	241.0	241.9	242.9	243.8	244.8	245.7	246.7	247.6			
1.0	-17.2	θ_e	316.2	311.2	306.1	301.1	296.0	291.0	285.9	280.9	275.8	270.8	265.7	260.7	255.6	250.6	245.5	240.5	235.4
		t_c	244.9	245.8	246.8	247.7	248.7	249.7	250.6	251.6	252.5	253.5	254.4	255.4					
1.5	-12.2	θ_e	317.8	312.7	307.6	302.5	297.5	292.4	287.3	282.2	277.1	272.1	267.0	261.9	256.9	251.8	246.7	241.6	236.6
		t_c	250.8	251.8	252.7	253.7	254.7	255.6	256.6	257.5	258.5	259.4	260.4						
2.0	-8.6	θ_e	319.2	314.1	309.0	304.0	298.9	293.8	288.7	283.6	278.5	273.4	268.3	263.2	258.1	253.0	247.9	242.8	237.7
		t_c	255.1	256.1	257.0	258.0	258.9	259.9	260.8	261.8	262.8	263.7							
4.0	-0.6	θ_e	325.2	320.0	314.8	309.6	304.4	299.2	294.1	288.9	283.7	278.5	273.3	268.1	262.9	257.8	252.6	247.4	242.2
		t_c	264.6	265.6	266.6	267.5	268.5	269.4	270.4	271.3	272.3								
6.0	+6.3	θ_e	330.9	325.6	320.3	315.1	309.8	304.5	299.2	294.0	288.7	283.4	278.2	272.9	267.7	262.4	257.1	251.8	246.5
		t_c	272.9	273.8	274.8	275.7	276.7	277.6	278.6										
8.0	+10.4	θ_e	336.6	331.3	326.0	320.6	315.3	309.9	304.5	299.2	293.8	288.5	283.1	277.7	272.4	267.0	261.6	256.3	250.9
		t_c	277.7	278.7	279.7	280.6	281.6	282.5	283.5										
10.0	+13.7	θ_e	342.4	337.0	331.5	326.1	320.7	315.2	309.8	304.3	298.9	293.5	288.0	282.6	277.1	271.7	266.2	260.8	255.3
		t_c	281.7	282.6	283.6	284.5	285.5	286.5											
12.0	+18.5	θ_e	348.4	342.8	337.3	331.7	326.1												
		t_c	285.0	286.0	286.9	287.9	288.8												
14.0	+18.8	θ_e	354.1	348.4	342.8	337.1	331.5												
		t_c	287.8	288.7	289.7	290.6	291.6												
16.0	+20.0	θ_e	360.1	354.3	348.6	342.8	337.1												
		t_c	289.2	290.1	291.1	292.0	293.0												
18.0	+22.8	θ_e	366.0	360.2	354.3	348.5													
		t_c	292.5	293.5	294.4	295.3													
20.0	+24.4	θ_e	372.1	366.2	360.2	354.3													
		t_c	294.2	295.1	296.0	297.0													
24.0	+27.3	θ_e	383.9	377.9															
		t_c	297.9	298.8															
32.0	+32.0	θ_e	409.2	402.6															
		t_c	303.4	304.4															
40.0	+35.6	θ_e	435.1																
		t_c	307.8																

The w is mixing ratio in gms kg⁻¹; t_d , dewpoint temperature in °C; potential temperature in °A; t , actual temperature in °C; θ_e , equivalent potential temperature in °A; and t_c , condensation temperature in °A. All values are for pressure of 1000mb.

EQUIVALENT POTENTIAL TEMPERATURE AND CONDENSATION TEMPERATURE
IN °A FOR THE 850 MILLIBAR ISOBARIC SURFACE

P = 850mb

w	t_d	θ	313	308	303	298	293	288	283	278	273	268	263	258	253	248
		t	+25.8	+21.0	+16.2	+11.5	+6.7	+1.9	-2.8	-7.6	-12.4	-17.2	-21.9	-26.7	-32.5	-36.3
0.5	-27.1	θ_e	314.7	309.7	304.6	299.6	294.6	289.6	284.5	279.5	274.5	269.5	264.4	259.4	254.4	249.3
		t_c	235.8	236.7	237.6	238.5	239.4	240.4	241.3	242.2	243.1	244.0	244.9	245.8	246.9	247.7
1.0	-19.2	θ_e	316.2	311.2	306.1	301.1	296.0	291.0	286.0	280.9	275.9	270.8	265.8	260.7	255.6	250.6
		t_c	245.2	246.1	247.0	247.9	248.9	249.8	250.7	251.6	252.5	253.4	254.3	255.2		
1.5	-14.3	θ_e	317.8	312.7	307.6	302.6	297.5	292.4	287.3	282.3	277.2	272.1	267.0	262.0	256.9	251.8
		t_c	251.0	252.0	252.9	253.8	254.7	255.6	256.5	257.4	258.3	259.3	260.2			
2.0	-10.7	θ_e	319.3	314.2	309.2	304.0	298.9	293.8	288.7	283.7	278.6	273.5	268.3	263.2	258.1	253.1
		t_c	255.3	256.2	257.2	258.1	259.0	259.9	260.8	261.7	262.6	263.5				
4.0	-1.6	θ_e	325.2	320.1	314.9	309.7	304.5	299.3	294.2	289.0	283.8	278.6	273.4	268.2	263.0	257.8
		t_c	266.2	267.1	268.0	268.9	269.8	270.7	271.6	272.5	273.5					
6.0	+4.0	θ_e	331.1	325.8	320.6	315.3	310.0	304.8	299.5	294.2	288.9	283.7	278.4	273.1	267.8	262.5
		t_c	272.8	273.8	274.7	275.6	276.5	277.4	278.3							
8.0	+8.1	θ_e	336.9	331.6	326.2	320.9	315.5	310.1	304.8	299.4	294.1	288.7	283.3	278.0	272.6	267.3
		t_c	277.7	278.6	279.6	280.5	281.4	282.3	283.2							
10.0	+11.3	θ_e	342.8	337.4	331.9	326.5	321.0	315.6	310.1	304.7	299.2	293.8	288.3	282.9	277.4	272.0
		t_c	281.5	282.4	283.4	284.3	285.2	286.1								
12.0	+14.0	θ_e	348.3	343.2	337.6											
		t_c	284.8	285.7	286.6											
14.0	+16.3	θ_e	354.5	348.9												
		t_c	287.5	288.4												
16.0	+18.3	θ_e	360.6	354.9												
		t_c	289.9	290.8												
18.0	+20.2	θ_e	366.6	360.7												
		t_c	292.1	293.0												

The w is mixing ratio in gms kg⁻¹; t_d , dewpoint temperature in °C; potential temperature in °A; t , actual temperature in °C; θ_e , equivalent potential temperature in °A; and t_c , condensation temperature in °A. All values are for pressure of 850mb.

EQUIVALENT POTENTIAL TEMPERATURE AND CONDENSATION TEMPERATURE
IN °A FOR THE 700 MILLIBAR ISOBARIC SURFACE

P = 700mb

w	t_d	θ	328	323	318	313	308	303	298	293	288	283	278	273	268	263	258
		t	+23.2	+18.7	+14.2	+9.6	+5.1	+0.6	-3.9	-8.4	-12.9	-17.4	-22.0	-26.5	-31.0	-35.5	-40.0
0.3	-34.8	θ_e	329.1	324.0	319.1	314.0	309.1	304.1	298.9	293.8	288.9	283.8	278.9	273.8	268.9	263.8	258.7
		t_c	229.1	227.9	228.8	229.7	230.5	231.4	232.3	233.2	234.0	234.9	235.8	236.6	237.5	238.4	239.2
0.4	-31.7	θ_e	329.4	324.4	319.4	314.4	309.4	304.3	299.3	294.3	289.3	284.2	279.2	274.2	269.2	264.2	259.1
		t_c	230.8	231.7	232.5	233.4	234.3	235.1	236.0	236.9	237.7	238.6	239.4	240.3	241.2	242.0	242.9
0.5	-29.3	θ_e	329.6	324.8	319.7	314.7	309.7	304.6	299.6	294.6	289.6	284.5	279.5	274.5	269.5	264.5	259.4
		t_c	233.7	234.5	235.4	236.3	237.1	238.0	238.9	239.7	240.6	241.4	242.3	243.2	244.0	244.9	245.7
1.0	-21.5	θ_e	331.4	326.4	321.3	316.3	311.3	306.2	301.2	296.1	291.1	286.0	281.0	275.9	270.9	265.8	260.8
		t_c	243.0	243.8	244.7	245.6	246.4	247.3	248.1	249.0	249.9	250.7	251.6	252.5	253.3	254.2	255.0
1.5	-16.6	θ_e	333.1	328.0	322.9	317.9	312.8	307.7	302.6	297.6	292.5	287.4	282.3	277.3	272.2	267.1	262.0
		t_c	248.8	249.7	250.5	251.4	252.3	253.1	254.0	254.8	255.7	256.6	257.4	258.3	259.1	260.0	
2.0	-13.1	θ_e	334.7	329.6	324.5	319.4	314.3	309.2	304.1	299.0	293.9	288.8	283.7	278.6	273.5	268.4	263.3
		t_c	253.0	253.8	254.7	255.6	256.4	257.3	258.1	259.0	259.9	260.7	261.6	262.5	263.3		
4.0	-4.2	θ_e	341.0	335.8	330.6	325.4	320.2	315.1	310.0	304.9	299.8	294.7	289.6	284.5	279.4	274.3	269.2
		t_c	263.6	264.4	265.3	266.2	267.0	267.9	268.7	269.6	270.5	271.3	272.2	273.1			
6.0	+1.2	θ_e	347.2	341.9	336.7	331.4	326.1	320.8	315.6	310.3	305.0	299.7	294.4	289.1	283.9	278.6	273.3
		t_c	270.0	270.9	271.7	272.6	273.5	274.3	275.2	276.0	276.9	277.8	278.6				
8.0	+5.3	θ_e	353.4	348.0	342.7	337.3	332.0	326.6	321.2	315.9	310.5	305.1	299.8	294.4	289.0	283.6	278.3
		t_c	274.9	275.7	276.6	277.5	278.0	279.2	280.1	280.9	281.8	282.6					
10.0	+8.4	θ_e	359.6	354.2	348.8	343.3	337.9	332.4	326.9	321.5	316.0	310.5	305.1	299.6	294.2	288.7	283.3
		t_c	278.6	279.4	280.3	281.2	282.0	282.9	283.7	284.6	285.5						
12.0	+11.1	θ_e	365.5	359.9	354.3												
		t_c	281.9	282.6	283.5												
14.0	+13.3	θ_e	371.7	366.1	360.4												
		t_c	284.4	285.2	286.1												

The w is mixing ratio in gms kg⁻¹; t_d , dewpoint temperature in °C, potential temperature in °A, t , actual temperature in °C; θ_e , equivalent potential temperature in °A; and t_c , condensation temperature in °A. All values are for pressure of 700mb.

EQUIVALENT POTENTIAL TEMPERATURE AND CONDENSATION TEMPERATURE
IN °A FOR THE 500 MILLIBAR ISOBARIC SURFACE

P = 500mb

w	t_d	θ	338	333	328	323	318	313	308	303	298	293	288	283	278
		t	+4.2	+0.1	-4.0	-8.1	-12.2	-16.3	-20.4	-24.5	-28.6	-32.7	-36.8	-40.9	-45.0
0.1	-48.9	θ_e	338.3	333.4	328.3	323.4	318.3	313.3	308.3	303.4	298.3	293.4	288.3	283.4	278.3
		t_c	214.0	214.8	215.5	216.3	217.1	217.9	218.6	219.4	220.2	221.0	221.8	222.6	223.4
0.2	-42.3	θ_e	338.7	333.4	328.7	323.3	318.6	313.3	308.6	303.3	298.6	293.4	288.6	283.5	278.6
		t_c	221.7	222.6	223.4	224.2	225.0	225.7	226.5	227.3	228.1	228.9	229.7	230.4	231.1
0.3	-38.2	θ_e	338.9	333.9	329.0	324.0	318.9	313.8	309.0	304.0	298.8	294.0	288.9	283.9	278.9
		t_c	226.7	227.5	228.3	229.1	230.0	230.6	231.4	232.2	233.0	233.8	234.5	235.1	235.8
0.4	-35.3	θ_e	339.3	334.4	329.3	324.3	319.4	313.3	309.3	304.4	299.4	294.3	289.3	284.3	279.2
		t_c	230.2	230.9	231.7	232.5	233.3	234.1	234.8	235.6	236.4	237.2	237.6	238.4	239.2
0.5	-32.9	θ_e	339.9	334.8	329.8	324.8	319.8	314.7	309.7	304.7	299.6	294.6	289.6	284.6	279.5
		t_c	233.0	233.8	234.6	235.4	236.1	236.9	237.7	238.5	239.3	240.1	240.8	241.6	242.4
1.0	-25.3	θ_e	341.6	336.6	331.6	326.5	321.5	316.4	311.3	306.3	301.2	296.2	291.1	286.1	281.0
		t_c	242.1	242.9	243.6	244.4	245.2	246.0	246.8	247.5	248.3	249.1	249.9	250.7	251.5
1.5	-20.7	θ_e	343.3	338.3	333.2	328.1	323.1	318.0	312.9	307.8	302.7	297.7	292.6	287.5	282.4
		t_c	247.5	248.3	249.1	249.9	250.7	251.5	252.2	253.0	253.8	254.6	255.4	256.2	256.9
2.0	-17.2	θ_e	345.0	339.9	334.8	329.7	324.7	319.6	314.4	309.3	304.2	299.1	294.0	288.9	283.8
		t_c	251.7	252.5	253.3	254.1	254.8	255.6	256.4	257.2	258.0	258.7	259.5	260.3	261.1
4.0	-8.6	θ_e	351.7	346.5	341.3	336.1	330.9	325.7	320.5	315.3	310.1	304.9	299.8	294.5	289.3
		t_c	262.0	262.7	263.5	264.3	265.1	265.9	266.3	267.4	268.2	269.0	269.8	270.6	271.3
6.0	-3.3	θ_e	358.3	353.0	347.7	342.4	337.1	331.8	326.5	321.3	316.0	310.7	305.4	300.1	294.8
		t_c	268.3	269.1	269.8	270.6	271.4	272.2	273.0	273.7	274.5	275.5	276.1	276.9	277.7
8.0	+0.5	θ_e	364.8	359.5	354.1	348.7	343.3	337.8	332.6	327.2	321.8	316.5	311.1	305.7	300.3
		t_c	272.8	273.6	274.4	275.1	275.9	276.7	277.5	278.3	279.1	279.8	280.6	281.4	282.2
10.0	+3.6	θ_e	371.4	366.0	360.5	355.1	349.6	344.1	338.6	333.2	327.7	322.2	316.7	311.5	305.8
		t_c	276.5	277.3	278.1	278.8	279.6	280.4	281.2	282.0	282.7	283.5	284.3	285.1	286.8

The w is mixing ratio in gms kg⁻¹; t_d , dewpoint temperature in °C, potential temperature in °A, t , actual temperature in °C; θ_e , equivalent potential temperature in °A; and t_c , condensation temperature in °A. All values are for pressure of 500mb.

**EQUIVALENT POTENTIAL TEMPERATURE AND CONDENSATION TEMPERATURE
IN °A FOR THE 300 MILLIBAR ISOBARIC SURFACE** P = 300mb

w	t_d	θ	348	343	338	333	328	323	318	313	308	303	298
		t	-26.5	-29.9	-33.4	-37.0	-40.5	-44.0	-47.6	-51.2	-54.7	-58.2	-61.8
0.1 -53.5		θ_e	348.4	343.4	338.4	333.4	328.4	323.4	318.4	313.4	308.4	303.4	298.4
		T_c	214.4	215.0	215.7	216.4	217.0	217.7	218.4	219.1	219.7	220.4	221.0
0.2 -47.2		θ_e	348.8	343.8	338.8	333.8	328.7	323.8	318.7	313.7	308.7	303.6	298.7
		T_c	221.9	222.5	223.2	223.9	224.5	225.2	225.9	226.5	227.2	227.9	228.5
0.3 -43.4		θ_e	349.2	344.2	339.2	334.2	329.2	324.1	319.2	314.1	309.1	304.1	299.1
		T_c	226.4	227.0	227.7	228.4	229.0	229.7	230.4	231.0	231.7	232.4	233.0
0.4 -40.5		θ_e	349.5	344.5	339.4	334.4	329.4	324.4	319.4	314.4	309.4	304.4	299.4
		T_c	229.9	230.5	231.2	231.9	232.5	233.2	233.9	234.5	235.2	235.9	236.5
0.5 -38.2		θ_e	350.0	345.0	339.9	334.9	329.9	324.9	319.8	314.8	309.8	304.7	299.7
		T_c	232.5	233.2	233.9	234.6	235.2	235.9	236.6	237.3	237.9	238.6	239.3
1.0 -31.0		θ_e	351.9	346.8	341.8	336.7	331.7	326.6	321.6	316.5	311.4	306.4	301.3
		T_c	241.1	241.8	242.5	243.1	243.8	244.5	245.2	245.9	246.5	247.2	247.9
1.5 -26.5		θ_e	353.7	348.6	343.5	338.4	333.3	328.3	323.2	318.1	313.1	308.0	302.9
		T_c	246.5	247.1	247.8	248.5	249.2	249.8	250.5	251.2	251.9	252.6	253.2
2.0 -23.3		θ_e	355.5	350.4	345.3	340.2	335.1	330.0	324.8	319.7	314.6	309.6	304.4
		T_c	250.3	251.0	251.6	252.3	253.0	253.7	254.3	255.0	255.7	256.4	257.0
4.0 -15.1		θ_e	362.6	357.4	352.2	347.0	341.8	336.6	331.4	326.2	321.0	315.8	310.5
		T_c	260.0	260.7	261.4	262.1	262.7	263.4	264.1	264.8	265.5	266.1	266.8
6.0 -10.0		θ_e	369.6	364.3	359.0	353.7	348.4	343.1	337.8	332.5	327.2	321.9	316.6
		T_c	266.1	266.8	267.5	268.2	268.8	269.5	270.2	270.9	271.5	272.2	272.9
8.0 -6.3		θ_e	376.6	371.3	365.8	360.4	355.0	349.6	344.3	338.8	333.5	328.0	322.7
		T_c	270.5	271.2	271.9	272.6	273.2	273.9	274.6	275.3	275.9	276.6	277.3
10.0 -3.4		θ_e	383.7	378.2	372.7	367.2	361.7	356.2	350.7	345.2	339.8	334.3	328.8
		T_c	274.0	274.7	275.3	276.0	276.7	277.4	278.0	278.7	279.4	280.1	280.7

The w is mixing ratio in gms kg⁻¹; t_d , dewpoint temperature in °C; θ , potential temperature in °A; t , actual temperature in °C; θ_e , equivalent potential temperature in °A; and T_c , condensation temperature in °A. All values are for pressure of 300mb.

**RULE FOR THE GRAPHICAL CONSTRUCTION OF ISOPLETHS OF EQUIVALENT
POTENTIAL TEMPERATURE ON CONSTANT PRESSURE SURFACES**

IF THE ISOTHERMS ARE DRAWN FOR THE VALUES OF TEMPERATURE SPECIFIED IN TABLE I AND THE ISOHUMES OF ACTUAL MIXING RATIO ARE DRAWN FOR THE VALUES OF MIXING RATIO IN TABLE II, THEN THE FAMILY OF LINES CONSTRUCTED BY GRAPHICAL ADDITION OF THESE MIXING RATIO LINES AND ISOTHERMS ARE ISOPLETHS OF θ_e AT FIVE DEGREE INTERVALS WHICH INCLUDE THE VALUE 308° (303°, 308°, 313°...).

The last two columns of Table II show the maximum value of the errors in °C of the constructed isopleths of θ_e for the 1000-, 850-, 700-, 500-, and 300mb surfaces, for each mixing ratio line, and for the minimum and maximum value respectively of the range in temperature of Table I.

TABLE I

θ	Actual Temperature (t)				
	1000mb Surface	850mb Surface	700mb Surface	500mb Surface	300mb Surface
°A	°C	°C	°C	°C	°C
233	-40.0				
238	-35.0				
243	-30.0				
248	-25.0	-26.3			
253	-20.0	-32.5			
258	-15.0	-26.7	-40.0		
263	-10.0	-21.9	-35.5		
268	-5.0	-17.2	-31.0		
273	0.0	-12.4	-26.5		
278	+5.0	-7.6	-22.0	-45.0	
283	+10.0	-2.8	-17.4	-40.9	
288	+15.0	+1.9	-12.9	-36.8	
293	+20.0	+6.7	-8.4	-32.7	
298	+25.0	+11.5	-3.9	-28.6	-61.8
303	+30.0	+16.2	+ .6	-24.5	-58.2
308	+35.0	+21.0	+ 5.1	-20.4	-54.7
313	+40.0	+25.8	+ 9.6	-16.3	-51.2
318			+14.2	-12.2	-46.7
323			+18.7	-8.1	-44.0
328			+23.2	-4.0	-40.5
333				+ .1	-37.0
338				+ 4.2	-33.4
343					-29.9
348					-26.5

TABLE II

w $\theta_e - \theta$		Dewpoint Temperature (t _d)					Errors	
		1000mb Surface	850mb Surface	700mb Surface	500mb Surface	350mb Surface		
g/kg	°C	°C	°C	°C	°C	°C		
1.7	5	-10.8	-12.9	-15.2	-18.2	-25.2	-.5	+.6
3.3	10	-3.4	-4.8	-7.3	-11.7	-18.0	-1.1	+1.4
5.1	15	+2.3	-.3	-2.6	-5.8	-12.4	-1.4	+2.0
6.9	20	+8.1	+5.8	+3.0	-2.0	-8.3	-1.4	+2.0
8.7	25	+11.6	+9.2	+6.4	+1.6	-5.3	-1.5	+2.1
10.5	30	+14.4	+12.0	+9.1			-1.2	+.9
12.3	35	+16.8	+14.3	+11.4			-1.1	+.8
14.1	40	+18.9	+16.4	+13.4			-1.0	+.6
15.9	45	+19.9	+18.2				-.6	+.7
17.6	50	+22.2	+19.8				-1.0	+1.0
19.3	55	+23.8					-.7	+1.1
21.0	60	+25.2					-.8	+1.1
22.7	65	+26.3						
24.3	70	+27.4						
25.9	75	+28.4						
27.5	80	+29.4						
29.1	85	+30.3						
30.6	80	+31.2						