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WRIGHT-PATTERSON AIR FORCE BASE - DAYTON, OHIO

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UNCLASSIFIED

Tables of Equivalent Potential Temperature for the Standard Constant-Pressure Surfaces 65136

(Not known) (None)

U. S. Air Force, Air Weather Service, Washington, D. C. TR-105-5

(Same) (Same)

May '46 Unclass. U.S. English 9 tables

Tables of equivalent potential temperature in °A for the surface of the earth are presented. The equivalent potential temperatures are given for 1000, 900, 850, 700, 500, and 200 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, T-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.

EQUIVALENT POTENTIAL TEMPERATURE IN °A FOR THE SURFACE OF THE EARTH

The Correction is Positive / Negative for Pressure Less Than / Greater Than 1000 Millibars.

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.

P = 1000mb

Relative Humidity in %

Corr.	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	Corr.
	-40°	233.0	233.0	233.0	233.1	233.1	233.1	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	-40°	
	-39°	234.0	234.0	234.0	234.1	234.1	234.1	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	234.2	-39°	
	-38°	235.0	235.0	235.0	235.1	235.1	235.1	235.2	235.2	235.2	235.2	235.2	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	-38°	
	-37°	236.0	236.0	236.0	236.1	236.1	236.1	236.2	236.2	236.2	236.2	236.2	236.3	230.3	236.2	230.3	236.3	236.3	236.3	230.4	236.4	236.4	-37°	
	-36°	237.0	237.0	237.0	237.1	237.1	237.1	237.2	237.2	237.2	237.2	237.2	237.3	237.3	237.3	237.4	237.4	237.4	237.4	237.4	237.4	237.4	-36°	
	-35°	238.0	238.0	238.1	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.3	236.4	236.4	236.4	236.4	236.4	238.4	233.4	236.4	236.4	236.4	-35°	
	-34°	239.0	239.0	239.1	239.2	239.2	239.2	239.2	239.3	239.2	239.3	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.5	239.5	-34°	
	-33°	240.0	240.0	240.1	240.2	240.2	240.2	240.2	240.3	240.3	240.3	240.4	240.4	240.4	240.4	240.4	240.5	240.5	240.5	240.6	240.6	240.6	-33°	
	-32°	241.0	241.0	241.1	241.2	241.2	241.2	241.2	241.3	241.3	241.3	241.4	241.4	241.4	241.4	241.4	241.5	241.5	241.5	241.6	241.6	241.6	-32°	
	-31°	242.0	242.0	242.1	242.2	242.2	242.2	242.2	242.3	242.3	242.4	242.4	242.4	242.5	242.5	242.6	242.6	242.6	242.6	242.6	242.6	242.0	-31°	
	-30°	243.0	243.0	243.1	243.2	243.2	243.2	243.2	243.3	243.3	243.4	243.4	243.4	243.5	243.5	243.6	243.6	243.0	243.6	243.6	243.7	243.7	-30°	
	-29°	244.0	244.0	244.1	244.2	244.2	244.2	244.3	244.4	244.4	244.4	244.5	244.8	244.6	244.3	244.6	244.7	244.7	244.7	244.8	244.8	244.6	-29°	
	-28°	245.0	245.0	245.1	245.2	245.2	245.2	245.3	245.4	245.4	245.4	245.5	245.6	245.6	245.6	245.7	245.6	245.6	245.3	245.9	246.0	246.0	-28°	
	-27°	246.0	246.1	246.2	246.2	246.3	246.3	246.4	246.4	246.4	246.5	246.6	246.6	246.7	246.6	246.8	246.6	246.9	247.0	247.0	247.9	247.1	-27°	
	-26°	247.0	247.1	247.2	247.2	247.3	247.4	247.4	247.4	247.5	247.6	247.6	247.7	247.6	247.6	247.9	248.0	248.0	248.0	248.1	248.2	248.2	-26°	
	-25°	248.0	248.1	248.2	248.2	248.3	248.4	248.4	248.5	248.6	248.6	248.7	246.6	248.8	248.9	249.0	249.0	240.1	248.2	249.2	240.3	249.4	-25°	
	-24°	249.0	249.1	249.2	249.2	249.3	249.4	249.4	149.5	249.6	249.7	249.8	249.6	249.9	250.0	250.0	250.1	250.2	250.3	250.4	250.4	250.5	-24°	
	-23°	250.0	250.1	250.2	250.2	250.3	250.4	250.4	250.5	250.6	250.7	250.6	260.9	251.0	251.1	251.2	251.2	251.3	251.4	351.4	251.5	251.6	-23°	
	-22°	251.0	251.1	251.2	251.3	251.4	251.5	251.6	251.6	251.7	251.8	251.9	252.0	252.1	252.2	252.2	252.3	252.4	252.5	252.6	252.6	252.7	-22°	
	-21°	252.0	252.1	252.2	252.3	252.4	252.5	252.6	252.7	252.8	252.9	253.0	253.0	253.1	253.2	253.3	253.4	253.5	253.6	253.7	253.8	253.9	-21°	0.7
	-20°	253.0	253.1	253.2	253.3	253.4	253.5	253.6	253.7	253.8	253.9	254.0	254.1	254.2	254.3	234.4	254.5	254.6	254.7	254.6	254.9	255.0	-20°	0.6
	-19°	254.0	254.1	254.2	254.4	254.5	254.6	254.7	254.8	254.9	255.0	255.1	255.2	255.3	253.4	255.6	255.6	255.7	255.6	255.9	256.0	256.1	-19°	
	-18°	255.0	253.1	255.2	255.4	255.5	255.6	255.8	255.9	250.0	230.1	256.2	256.4	256.5	256.6	256.7	256.8	256.9	257.0	257.1	257.2	257.3	-18°	
	-17°	256.0	253.2	256.3	256.4	256.6	256.7	256.8	256.9	257.0	257.3	257.3	257.4	257.6	257.7	257.6	257.9	256.0	258.1	252.2	256.4	258.5	-17°	
	-16°	257.0	257.3	257.3	257.4	257.6	257.7	257.8	256.0	258.1	258.2	256.4	258.6	258.7	256.3	259.0	259.1	259.2	259.3	259.4	259.6	259.7	-16°	
	-15°	258.0	258.2	258.4	256.5	258.7	258.8	259.0	259.1	259.2	259.4	259.6	259.7	259.9	260.0	260.2	260.3	260.4	260.5	260.6	260.8	260.9	-15°	
0.7	-14°	259.0	259.2	259.4	253.5	259.7	259.9	260.0	260.2	260.3	260.5	260.7	260.9	261.1	261.2	261.4	261.5	261.6	261.8	261.9	252.1	262.2	-14°	
0.8	-13°	260.0	260.2	260.4	260.6	260.8	261.0	261.1	261.3	261.4	201.6	261.6	262.0	262.2	262.4	262.5	262.7	262.8	263.0	263.2	263.3	263.5	-13°	
	-12°	261.0	201.2	201.5	261.7	261.9	252.1	262.2	262.4	262.5	262.7	263.0	263.2	263.4	263.6	263.7	263.0	264.0	264.2	264.4	264.6	264.6	-12°	
	-11°	202.0	262.3	252.5	262.6	203.0	263.2	203.4	263.5	262.7	263.9	204.2	264.4	264.6	264.6	265.0	265.1	265.3	265.5	265.7	265.0	266.1	-11°	
	-10°	263.0	263.3	263.6	263.8	264.1	264.3	264.5	264.6	264.6	265.1	265.4	265.6	265.9	266.1	266.3	266.5	266.7	266.9	267.1	287.2	267.5	-10°	
	-9°	264.0	264.3	264.6	264.6	265.1	265.3	265.5	265.7	265.9	266.2	266.5	266.6	267.1	267.3	267.5	267.7	267.9	268.1	269.4	268.6	268.9	-9°	
	-8°	265.0	265.3	265.6	265.9	266.2	266.4	266.7	266.9	267.1	267.4	267.7	268.0	268.3	268.6	266.6	269.0	269.2	269.5	269.7	270.0	270.2	-8°	
	-7°	266.0	266.3	266.6	266.9	267.2	267.5	267.6	268.0	266.3	268.6	268.9	369.2	269.5	209.0	270.1	270.2	270.0	270.9	271.1	271.4	271.6	-7°	
	-6°	207.0	267.3	267.7	268.0	268.3	268.6	268.9	269.2	269.5	269.6	270.1	270.4	270.7	271.0	271.4	271.7	272.0	272.3	272.6	272.6	273.1	-6°	
	-5°	268.0	263.3	266.7	269.0	269.3	269.7	270.0	270.4	270.7	271.0	271.4	271.7	272.0	272.4	272.7	273.0	273.4	273.7	274.0	274.4	274.7	-5°	0.8
	-4°	269.0	269.4	269.7	270.1	270.4	270.8	271.2	271.5	271.9	272.3	272.6	273.0	273.3	273.7	274.0	274.4	274.6	275.1	275.5	275.6	276.2	-4°	0.9
	-3°	270.0	270.4	270.8	271.1	271.5	271.9	272.4	272.8	273.2	273.6	273.9	274.3	274.7	275.1	275.4	275.8	276.2	270.6	276.9	277.3	277.7	-3°	
	-2°	271.0	271.4	271.9	2 2.3	272.7	273.1	273.5	274.0	274.4	274.6	275.2	273.7	278.1	276.5	276.8	277.2	277.6	276.0	278.4	276.0	278.3	-2°	
	-1°	272.0	272.5	273.0	273.6	274.0	274.4	274.8	275.3	275.7	276.1	276.6	277.0	277.5	277.9	276.3	276.7	279.1	270.5	280.0	280.4	280.9	-1°	
	0°	273.0	273.5	274.1	274.6	275.2	275.7	276.1	276.6	277.1	277.6	276.0	276.5	279.0	270.4	279.9	280.2	280.6	281.1	281.6	282.1	232.6	0°	
	+1°	274.0	274.6	275.1	275.7	276.3	276.8	277.3	277.8	276.3	278.6	279.4	279.9	280.5	280.9	261.3	281.6	282.2	282.7	283.3	283.6	284.4	+1°	
	+2°	275.0	275.6	276.2	276.8	277.5	278.0	278.5	279.1	279.6	260.2	280.7	281.3	281.3	282.4	262.9	283.4	263.9	284.5	265.0	285.6	286.2	+2°	0.2
	+3°	276.0	276.6	277.3	277.9	278.6	279.2	279.8	280.4	261.0	261.6	282.1	262.7	263.3	283.9	264.4	285.0	285.6	286.2	266.8	267.4	266.0	+3°	1.0
	+4°	277.0	277.7	278.4	279.1	279.8	280.4	281.1	281.7	282.4	263.0	283.6	284.2	284.8	285.4	266.1	286.7	267.4	286.0	266.6	289.3	289.9	+4°	
	+5°	278.0	278.9	279.5	280.3	281.1	281.8	282.4	283.1	283.6	264.4	265.0	265.7	266.3	267.0	267.7	266.5	289.2	289.9	290.6	291.2	291.9	+5°	
	+6°	279.0	279.8	280.6	281.4	282.2	282.9	283.7	284.4	265.2	355.9	286.5	267.2	287.9	280.7	269.4	290.2	291.0	201.7	282.4	203.2	283.9	+6°	
	+7°	280.0	280.8	281.7	282.5	283.4	284.2	285.0	285.9	268.7	267.4	288.2	263.8	268.7	290.5	291.3	292.1	292.9	293.6	294.4	295.1	286.9	+7°	
	+8°	281.0	281.9	282.8	283.7	284.6	285.5	286.3	287.2	288.1	289.0	289.6	290.7	291.6	292.4	293.2	294.0	294.6	295.6	296.4	297.2	298.0	+8°	
	+9°	282.0	283.0	283.9	284.9	285.9	286.8	287.7	286.7	289.6	200.5	291.5	292.4	293.4	294.2	205.1	295.9	296.6	297.7	288.5	299.4	300.3	+9°	1.0
	+10°	283.0	284.0	285.1	286.1	287.2	288.2	289.2	290.2	291.2	292.2	293.2	294.3	295.2	290.1	297.0	297.9	298.6	299.6	300.6	301.6	302.6	+10°	1.1
	+11°	284.0	285.1	286.2	287.4	288.5	289.6	290.6	291.7	292.8	293.8	294.9	295.8	297.0	296.0	299.0	300.0	331.1	302.0	303.1	304.1	305.2	+11°	
	+12°	285.0	286.2	287.4	288.6	239.8	290.9	292.1	293.2	294.4	295.5	296.7	207.8	299.0	300.1	301.1	302.2	303.3	304.4	305.5	306.6	307.7	+12°	
	+13°	286.0	287.3	288.5	289.8	291.1	292.3	293.6	294.8	296.1	207.3	206.5	299.8	301.0	302.2	303.3	204.5	305.7	306.8	308.0	309.1	310.3	+13°	1.1
	+14°	287.0	288.3	289.7	291.0	292.4	293.7	295.1	296.4	297.6	299.1	300.4	301.7	303.0	304.3	305.5	300.8	308.1	309.3	310.5	311.7	312.9	+14°	1.2
	+15°	288.0	289.4	290.9	292.3	293.8	295.2	296.6	298.1	299.5	300.9	302.2	303.6	305.0	306.4	307.7	209.1	310.5	311.8	313.0	314.3	315.6	+15°	
	+16°	289.0	290.5	292.1	293.6	295.2	296.7	298.2	299.7	301.2	302.7	304.1	305.6	307.1	306.0	310.1	311.6	313.1	314.5	315.8	317.2	316.6	+16°	
12.2	+17°	290.0	291.7	293.3	295.0	296.7	298.3	299.9	301.5	303.1	304.6	306.2	307.7	309.3	310.9	312.5	314.1	315.7	317.2	318.7	320.2	321.7	+17°	1.2
	+18°	291.0	292.8	294.5	296.3	298.2	299.8	301.5	303.3	305.0	306.8	308.3	309.9	311.6	313.3	315.0	316.7	310.4	329.0	321.3	323.3	324.9	+18°	1.3
	+19°	292.0	293.9	295.8	297.8	299.7	301.6	303.3	305.1	306.9	308.7	310.4	312.2	314.0	315.8	317.6	319.4	321.2	322.9	324.7	328.4	328.2	+19°	1.3
	+20°	293.0	295.0	297.1	299.1	301.2	303.1	305.0	306.9	306.8	310.7	312.6	314.5	316.4	318.3	320.2	322.2	324.1	326.0	327.9	329.8	331.7	+20°	1.4
	+21°	294.0	296.1	298.3	300.4	302.6	304.6	306.7	308.7	310.6	312.6	314.9	316.9	319.0	321.0	323.0	325.1	327.1	329.1	331.2	333.2	336.3	+21°	
	+22°	295.0	297.3	299.5	301.8	304.1	306.3	308.5	310.7	312.9	315.1	317.3	319.5	321.7	323.8	326.0	328.1	330.3	332.5	334.7	337.0	339.2	+22°	1.4
	+23°	296.0	298.4	300.8	303.3	305.7	308.0	310.4	312.7	315.1	317.4	319.8	322.1	324.5	326.8	329.1	331.4	333.7	336.1	338.4	340.6	343.2	+23°	1.5
	+24°	297.0	299.6	302.1	304.7	307.3	309.8	312.3	314.9	317.4	319.9	322.3	324.8	327.3	329.8	332.3	334.7	337.2	339.7	342.3	344.8	277.4	+24°	
0.8	+25°	298.0	300.7	303.3	306.2	309.0	311.7	314.4	317.1	319.8	322.4	325.0	327.6	330.2	332.0	335.6	338.2	340.9	343.6	346.4	349.1	351.8	+25°	
0.9	+26°	299.0	301.9	304.8	307.8	310.7	313.5	316.4	319.2	322.1	324.9	327.7	330.5	333.3	336.2	339.0	341.9	344.6	347.7	350.6	353.5	356.4	+26°	1.5
	+27°	300.0	303.1	306.2	309.3	312.4	315.4	318.5	321.5	324.6	327.5	330.5	333.4	336.4	339.5	342.6	345.7	348.6	351.9	355.0	356.1	361.8	+27°	1.6
	+28°	301.0	304.3	307.6	310.9	314.2	317.4	320.6	323.9	327.1	330.2	333.4	336.5	339.7	343.0	346.3	349.7	353.0	356.3	359.6	363.0	388.3	+28°	
	+29°	302.0	305.5	309.0	312.5	316.0	319.4	322.8	326.3	329.7	333.1	336.4	339.6	343.2	346.7	350.3	353.8	357.4	361.0	364.6	368.2	371.6	+29°	
	+30°	303.0	306.7	310.4	314.1	317.8	321.4	325.1	328.7	332.4	336.0	339.6	343.3	346.9	350.7	354.5	358.3	362.1	365.9	369.8	373.6	377.5	+30°	1.0
	+31°	304.0	307.9	311.9	315.8	319.6	323.6	327.5	331.3	335.2	339.1	343.0	346.9	350.8	354.8	358.9	362.9	367.0	371.0	375.1	379.1	363.2	+31°	2.0
	+32°	305.0	308.2	313.4	317.6	321.6	325.9	329.9	334.0	338.1	342.3	346.4	350.6	354.8	359.1	363.4	367.8	372.1	376.4	380.7	385.0	389.4	+32°	
	+33°	306.0	310.5	314.9	319.4	323.9	328.2	332.5	336.9	341.2	345.6	350.1	354.5	359.0	363.6	368.2	372.8	377.4	382.1	386.7	391.4	396.1	+33°	
	+34°	307.0	311.6	316.5	321.3	326.1	330.7	335.2	339.8	344.4	349.1	353.9	358.6	363.4	368.3	373.2	378.1	383.0	387.9	393.2	398.4	403.5	+34°	
	+35°	308.0	313.1	316.1	323.2	328.3	333.1	338.0	342.8	347.7	352.6	357.9	363.0	368.1	373.3	378.5	383.8	389.0	394.5	400.1	405.6	411.2	+35°	2.5
	+36°	309.0	314.3	319.7	325.0	330.4	335.6	340.8	346.0	351.2	366.6	382.1	367.5	373.0	378.6	384.2	389.8	395.4	401.3	407.3	413.2	419.2	+36°	2.6
	+37°	310.0	315.6	321.3	326.8	332.6	338.1	343.7	349.2	354.8	360.6	366.4	372.3	378.1	384.1	390.1	396.2	462.2	408.6	415.1	421.5	428.0	+37°	
	+38°	311.0	317.0	322.9	328.9	334.9	340.8	346.7	352.6	358.5	364.7	370.9	377.2	383.4	389.9	396.3	402.8	409.3	416.3	423.2	430.2	437.2	+38°	
	+39°	312.0	318.3	324.6	330.9	337.2	343.5	349.8	356.2	362.5	369.1	375.6	382.2	388.8	395.8	402.8	409.8	416.8	424.3	431.6	439.4	446.0	+39°	2.9
	+40°	313.0	319.6	326.3	332.9	339.6	346.3	353.0	359.8	366.5	373.5	380.4	417.4	394.4	402.0	409.5	417.1	424.7	432.6	440.6	446.0	457.0	+40°	3.0
	Temp. in °C	0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%		Temp. in °C	
Corr.		0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6		1.0	2.0		2.5	2.6	2.9	3.0	Corr.

EQUIVALENT POTENTIAL TEMPERATURE IN °A FOR THE SURFACE OF THE EARTH

The Correction is Positive / Negative for Pressure Less Than / Greater Than

The Tabular Entry 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.

900 Millibars.

P = 900mb

Relative Humidity in %

Corr.	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	Corr.
	-40°	+240.1	+240.1	240.1	240.1	240.1	240.1	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.2	240.3	240.3	240.3	240.3	240.3	240.3	-40°	
	-39	+241.1	+241.1	241.2	241.2	241.2	241.2	241.2	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.4	241.4	241.4	241.4	241.4	241.4	241.4	-39°	
	-38	+242.2	+242.2	242.2	242.2	242.2	242.2	242.2	242.3	242.3	242.3	242.4	242.4	242.4	242.4	242.4	242.5	242.5	242.5	242.5	242.5	242.5	-38°	
	-37	+243.2	+243.2	243.2	243.2	243.2	243.2	243.3	243.4	243.4	243.4	243.4	243.4	243.4	243.4	243.5	243.0	243.6	243.6	243.6	243.6	243.6	-37°	
	-36	+244.2	+244.2	244.2	244.3	244.3	244.3	244.4	244.4	244.4	244.4	244.4	244.5	244.5	244.5	244.5	244.6	244.7	244.7	244.7	244.7	244.7	-36°	
	-35	+245.2	+245.2	245.3	245.4	245.4	245.4	245.4	245.5	245.5	245.5	245.5	245.8	245.8	245.6	245.7	245.8	245.8	245.8	245.8	245.8	245.8	-35°	
	-34	+246.3	+246.3	246.4	246.4	246.4	246.4	246.6	246.6	246.5	245.5	245.0	246.7	246.7	246.7	246.6	246.8	246.8	246.9	246.0	247.0	247.0	-34°	
	-33	+247.3	+247.3	247.4	247.4	247.4	247.4	247.5	247.6	247.8	247.8	247.7	247.9	247.9	247.9	247.8	247.8	247.9	248.0	248.0	248.0	248.1	-33°	
	-32	+248.3	+248.4	248.4	248.4	248.5	248.6	248.6	248.6	248.7	248.7	248.8	248.8	248.9	249.8	249.9	249.0	240.0	249.0	249.1	249.2	249.2	-32°	
	-31	+249.4	+249.4	249.6	240.0	249.5	249.5	249.5	249.7	249.7	249.8	248.8	248.8	249.9	250.0	250.0	250.0	250.1	250.2	250.2	250.8	250.3	-31°	
	-30	+250.4	+250.4	250.5	250.6	250.6	250.6	250.7	250.9	250.5	250.9	250.8	251.0	251.0	251.0	251.1	251.2	251.2	251.2	251.3	251.4	251.4	-30°	
	-29	+251.5	+251.6	251.5	251.6	251.7	251.7	251.8	251.9	251.9	251.9	252.0	252.0	252.1	252.1	252.2	252.2	252.2	252.3	252.4	252.5	252.5	-29°	
	-28	+252.5	+252.8	252.6	252.0	252.7	252.9	252.9	252.8	252.9	253.0	253.0	253.0	253.1	253.2	253.2	253.2	253.3	253.4	253.5	253.6	253.7	-28°	
	-27	+253.6	+253.8	253.7	253.9	253.9	253.9	253.8	253.8	253.9	254.0	254.0	254.1	254.2	254.3	254.4	254.4	254.5	254.6	254.7	254.9	254.8	-27°	
	-26	+254.6	+254.6	254.7	254.8	254.9	254.8	254.9	255.0	255.0	255.1	255.1	255.2	255.3	255.4	255.4	255.6	255.6	255.7	255.9	255.9	255.0	-26°	
	-25	+255.6	+255.7	255.9	255.9	256.9	255.0	256.0	255.0	256.1	258.2	256.2	256.3	258.4	256.5	256.6	256.6	256.7	255.9	257.0	257.1	257.2	-25°	
	-24	+256.5	+256.7	256.8	256.9	255.0	257.0	267.0	257.1	257.2	257.3	257.4	257.4	257.5	257.0	257.7	257.8	257.9	258.0	259.2	259.3	259.4	-24°	
	-23	+257.6	+257.7	267.9	257.9	258.0	258.1	258.2	258.2	258.3	256.4	258.4	258.5	258.0	256.7	258.9	258.9	259.0	259.2	259.3	259.4	259.5	-23°	0.8
	-22	+258.6	+258.7	258.9	259.0	259.1	258.2	259.2	252.3	259.4	250.5	250.5	252.8	259.7	259.9	259.9	260.0	260.1	260.2	260.4	260.6	260.7	-22°	0.9
	-21	+259.7	+259.8	260.0	260.1	260.2	260.3	260.4	260.5	260.6	260.7	260.8	260.8	260.9	261.0	261.1	261.2	261.3	261.4	261.6	26..6	261.9	-21°	
	-20	+260.7	+260.8	261.0	261.1	261.2	261.3	261.4	261.5	261.7	251.8	261.0	261.9	262.0	262.1	262.2	252.4	262.5	252.5	262.8	252.9	263.0	-20°	
	-19	+261.7	+261.8	262.0	262.2	262.3	262.4	262.0	262.7	262.9	262.9	253.0	263.1	263.2	263.3	263.4	263.6	263.7	263.8	264.0	264.1	264.2	-19°	
	-18	+262.7	+262.9	263.0	263.2	263.4	263.5	263.6	263.8	253.9	264.0	264.2	264.8	264.4	264.5	264.5	264.8	264.9	265.0	255.2	265.4	255.5	-18°	
0.8	-17	+263.8	+264.0	264.2	264.3	264.5	264.6	264.8	264.9	255.0	265.2	265.5	265.4	266.6	255.7	265.8	266.0	266.1	266.3	265.4	266.5	260.7	-17°	
0.9	-16	+264.8	+265.0	265.2	265.4	265.6	265.8	265.9	266.0	268.2	268.4	268.5	258.8	266.8	266.9	257.0	267.2	257.3	267.5	267.6	267.8	268.0	-16°	
	-15	+265.6	+266.0	266.3	266.5	266.7	266.9	267.0	267.2	267.3	267.5	267.7	267.8	268.0	268.1	268.3	268.4	268.5	268.7	268.0	269.0	269.2	-15°	
	-14	+266.9	+267.0	287.3	267.6	267.8	269.0	269.1	259.3	258.4	268.6	209.8	268.9	260.2	299.4	269.5	269.7	269.9	270.0	270.2	270.3	270.5	-14°	
	-13	+267.9	+259.2	258.4	298.7	268.9	259.0	269.2	262.4	269.6	268.8	270.1	270.3	270.5	270.7	270.9	271.0	271.1	271.3	271.5	271.7	271.9	-13°	
	-12	+268.9	+260.2	258.4	260.7	269.9	270.1	270.4	270.5	270.9	271.0	271.3	271.5	271.7	271.9	272.1	272.3	272.4	272.6	272.8	273.0	273.2	-12°	
	-11	+269.9	+270.2	270.5	270.7	271.0	271.3	271.5	271.8	272.0	272.3	272.5	272.9	273.0	273.2	273.4	273.5	273.9	274.0	274.2	274.4	274.5	-11°	
	-10	+271.0	+271.3	271.5	271.9	272.1	272.4	272.7	272.9	273.2	273.5	273.7	274.0	274.3	274.5	274.7	274.8	275.1	275.3	275.8	275.6	276.1	-10°	
	- 9	+272.0	+272.3	272.7	273.0	273.3	273.6	273.8	274.1	274.4	274.7	275.0	276.3	275.6	275.8	276.0	276.3	275.5	278.6	277.0	277.3	277.6	- 0°	0.2
	- 8	+273.0	+273.4	273.7	274.1	274.5	274.8	275.0	275.3	275.0	276.0	276.2	275.5	275.8	277.1	277.3	277.6	277.9	278.2	279.5	275.9	279.1	- 6°	1.0
	- 7	+274.0	+274.4	274.8	275.2	278.5	275.9	276.2	275.5	276.8	277.1	277.4	277.8	278.1	278.4	278.7	279.0	279.3	279.5	279.9	280.3	280.5	- 7°	
	- 5	+275.1	+275.5	275.9	275.3	275.7	277.1	277.4	277.8	278.2	273.5	278.8	272.2	270.5	278.8	280.1	290.5	280.9	281.1	281.4	281.5	252.1	- 6°	
	- 5	+276.2	+275.5	277.0	277.5	277.9	279.3	278.7	279.1	279.5	279.8	280.2	250.5	280.9	251.2	281.6	281.9	282.3	282.0	283.0	283.3	283.7	- 5°	
	- 4	+277.2	+277.6	278.1	278.5	279.0	279.4	279.8	280.3	250.7	281.1	281.5	281.9	282.3	282.7	283.0	283.4	283.8	284.2	284.6	285.0	285.4	- 4°	
	- 3	+278.3	+278.7	279.2	279.7	280.2	280.6	281.0	281.5	281.9	282.3	282.8	283.2	283.7	284.1	284.5	285.0	285.4	285.9	286.3	285.7	287.1	- 3°	
	- 2	+279.2	+279.7	280.3	250.8	281.4	281.9	282.3	282.7	283.2	283.7	284.1	284.6	285.1	285.5	290.0	286.5	287.0	287.4	287.8	288.3	288.7	- 2°	
	- 1	+280.2	+280.8	281.4	282.0	282.6	283.1	283.5	284.0	284.5	285.0	285.5	285.1	285.5	287.1	287.6	288.1	288.8	289.0	299.5	289.9	290.4	- 1°	1.0
	- 0	+281.3	+281.9	282.5	283.2	283.8	284.3	284.8	285.2	285.9	286.4	286.9	287.5	288.1	282.6	289.2	289.7	290.3	290.8	291.5	291.9	292.3	- 0°	1.1
	+ 1°	282.3	283.0	283.7	284.4	285.1	285.6	286.1	285.6	287.1	287.7	288.4	289.0	289.7	290.3	290.8	291.4	292.0	292.5	293.1	293.6	294.2	+ 1°	
	+ 2°	283.3	284.0	284.8	285.5	285.3	286.9	287.4	288.0	289.6	289.3	288.8	290.6	281.3	291.9	292.5	293.1	293.7	294.3	294.9	295.4	295.0	+ 2°	
	+ 3°	284.4	285.2	285.9	286.7	287.5	288.1	288.6	289.4	290.1	290.8	291.5	292.2	292.8	293.5	294.2	294.9	295.6	296.2	296.8	297.4	298.0	+ 3°	
	+ 4°	285.4	286.2	287.0	287.9	288.7	289.4	290.1	290.8	291.6	292.3	293.0	293.8	294.5	295.2	295.0	296.7	297.5	298.1	298.8	299.4	300.1	+ 4°	
	+ 5°	286.5	287.4	288.2	289.1	290.0	290.2	291.5	292.3	293.1	293.9	294.5	296.4	296.2	297.0	297.9	289.6	299.4	300.1	300.6	301.5	302.3	+ 5°	
	+ 6°	287.5	288.4	289.3	290.3	291.2	292.1	292.2	283.9	294.7	296.5	295.3	297.2	298.0	299.8	399.7	300.5	301.4	302.2	302.9	303.7	304.5	+ 6°	1.1 1.2
	+ 7°	288.5	289.5	290.5	291.5	292.5	293.4	294.3	295.3	295.2	297.1	297.9	299.8	292.7	300.6	301.5	302.5	303.4	304.2	305.1	305.9	306.8	+ 7°	
	+ 8°	289.5	290.6	291.6	292.7	293.8	294.8	295.7	296.7	267.7	298.6	288.5	300.5	301.5	302.5	303.5	304.6	305.5	306.4	307.2	308.3	309.2	+ 8°	
	+ 9°	290.6	291.7	292.9	294.0	295.2	296.2	297.2	298.3	299.3	300.3	301.3	302.4	303.4	304.5	305.5	303.6	307.7	609.7	309.7	310.7	311.7	+ 9°	1.2
	+10°	291.6	292.8	294.1	295.3	296.6	297.7	298.7	299.8	300.9	302.0	303.1	304.2	305.3	306.5	307.6	309.9	310.0	311.1	312.1	313.2	314.3	+10°	1.3
	+11°	292.6	293.9	295.2	296.6	297.0	299.1	300.3	301.5	302.7	303.9	305.0	306.2	307.4	308.5	308.8	311.1	312.3	313.5	314.7	315.8	317.1	+11°	
	+12°	293.6	295.0	296.4	297.8	299.1	300.5	301.8	303.2	304.5	305.7	307.0	309.2	309.5	310.8	312.0	313.3	314.6	315.9	317.3	319.5	319.0	+12°	
	+13°	294.7	296.2	297.6	299.1	300.6	302.0	303.5	304.9	306.4	307.7	309.0	310.4	311.7	313.0	314.3	315.7	317.0	318.5	319.9	321.4	322.9	+13°	1.3
	+14°	295.7	297.2	298.8	300.3	301.9	303.5	305.1	306.7	308.2	309.7	311.1	312.8	314.0	315.4	316.9	316.2	319.6	321.1	922.7	324.2	325.9	+14°	1.4
	+15°	296.8	298.4	300.3	301.7	303.3	305.0	306.7	308.5	310.2	311.7	313.3	314.8	316.4	317.9	319.3	320.3	322.3	323.8	326.6	327.2	328.8	+15°	1.4
	+16°	297.8	299.6	301.3	303.1	304.9	306.7	308.5	310.3	312.1	313.7	315.4	317.0	318.7	320.3	321.8	323.4	325.0	325.9	328.5	330.3	332.1	+16°	1.5
	+17°	298.8	300.7	302.6	304.5	306.4	308.3	310.2	512.2	314.1	315.9	317.8	319.4	321.2	322.9	324.5	326.2	327.9	329.9	331.7	333.6	335.8	+17°	
0.9	+18°	299.8	301.9	303.9	306.0	308.1	310.1	312.1	314.1	316.1	318.0	319.9	321.7	323.6	325.4	327.2	329.1	330.9	332.9	335.0	337.0	339.1	+18°	
1.0	+19°	300.8	303.0	305.3	307.5	309.8	311.9	314.0	316.1	318.2	320.2	322.2	324.2	326.2	328.1	330.1	332.0	334.0	336.2	338.4	340.6	342.8	+19°	
	+20	301.9	304.2	306.6	308.9	311.3	313.5	315.8	318.0	320.3	322.4	324.5	325.7	328.8	331.0	333.1	335.3	337.5	339.8	342.0	344.3	346.5	+20°	
	+21°	302.9	305.4	307.9	310.5	313.0	315.4	317.7	320.1	322.5	324.9	327.1	329.4	331.7	334.0	336.4	338.7	341.1	343.5	345.9	348.4	350.9	+21°	1.6
	+22°	303.9	306.6	309.3	312.0	314.7	317.2	319.7	322.2	324.7	327.2	329.7	332.2	334.7	337.2	339.7	342.2	344.7	347.3	349.8	352.4	355.0	+22°	1.7
	+23°	305.0	307.8	310.7	313.5	316.4	319.0	321.7	324.3	327.0	329.7	332.4	335.2	337.9	340.5	343.2	345.9	348.5	351.3	354.0	356.8	359.5	+23°	
	+24°	306.0	309.0	312.0	315.1	318.1	320.9	323.7	326.6	329.4	332.3	335.3	339.2	341.2	344.1	346.9	349.6	352.7	355.5	358.5	361.4	364.3	+24°	
	+25°	307.1	310.3	313.5	316.8	320.0	323.0	325.0	329.0	332.0	335.1	338.3	341.4	344.6	347.7	350.7	353.9	356.9	360.0	363.1	366.3	369.4	+25°	
	+26°	308.1	311.5	314.9	318.4	321.8	325.0	328.2	331.5	334.7	339.0	341.4	344.7	348.1	351.4	354.6	357.9	361.2	364.5	367.9	371.2	374.6	+26°	1.9 2.0
	+27°	309.1	312.7	316.3	320.0	323.6	327.1	330.5	334.0	337.5	341.0	344.5	348.1	351.6	355.1	358.7	362.2	365.6	369.4	373.0	376.6	380.2	+27°	
	+28°	310.1	313.9	317.8	321.6	325.5	329.2	332.9	335.5	340.3	344.0	347.8	351.5	355.3	359.1	362.9	366.8	370.6	374.5	378.3	382.2	385.1	+28°	
	+29°	311.2	315.3	319.3	323.4	327.5	331.4	335.3	339.3	343.2	347.2	351.1	355.1	359.1	363.2	367.3	371.5	375.5	379.9	384.0	388.2	392.4	+29°	
	+30°	312.2	316.5	320.8	325.1	329.4	333.6	337.8	342.0	346.2	350.4	354.6	358.9	363.1	367.5	371.8	376.2	380.6	385.2	389.8	394.4	398.0	+30°	
	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	
Corr.			1.0 1.1		1.1 1.2	1.2 1.3		1.3 1.4		1.4 1.5			1.5 1.7			1.7 1.8								Corr.

EQUIVALENT POTENTIAL TEMPERATURE
IN °A FOR 850 MILLIBAR ISOBARIC 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°
-39°	244.8	244.8	245.0	245.0	245.0	245.0	245.0	245.1	245.1	245.1	246.1	245.1	245.1	245.1	245.2	245.2	245.2	245.2	245.2	245.2	245.2	-39°
-38°	248.1	248.1	248.1	246.1	248.1	246.1	246.1	249.2	246.2	246.2	246.3	246.3	246.3	246.3	246.3	246.4	246.4	249.4	249.4	246.4	246.4	-38°
-37°	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	247.5	247.5	247.5	247.5	247.5	247.5	-37°
-36°	248.1	248.1	240.1	248.2	248.2	240.2	248.3	246.3	248.3	248.3	248.3	248.4	246.4	248.5	248.5	248.6	246.7	248.7	248.7	248.7	248.7	-36°
-35°	248.1	249.1	248.2	248 3	248.3	249.3	249.3	249.4	249.3	248.3	248.4	219.4	243.4	249.4	249.5	248.7	249.7	249.7	249.7	249.7	249.7	-35°
-34°	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	250.6	250.6	250.6	250.9	251.0	251.0	-34°
-33°	251.3	251.2	251.4	251.4	251.4	251.4	251.5	251.0	251.9	251.6	251.7	251.8	251.6	251.6	251.6	251.9	251.9	262.0	252.0	252.0	252.1	-33°
-32°	252.3	252.4	252.4	252.4	252.5	252.6	252.6	252.6	252.7	252.7	252.8	252.8	252.6	252.6	252.0	253.0	253.0	253.0	253.1	253.2	253.2	-32°
-31°	253.4	253.4	253.5	253.6	253.6	253.8	253.6	253.7	253.7	253.6	253.8	253.8	253.9	254.0	264.0	254.0	254.1	254.2	254.2	254.2	254.3	-31°
-30°	254.4	254.4	254.5	254.6	254.9	254.6	254.7	254.8	254.6	254.8	254.0	255.0	255.0	255.0	255.1	255.2	255.2	255.2	255.3	255.4	255.4	-30°
-29°	255.5	255.6	255.6	255.6	255.7	255.7	255.8	255.6	255.8	255.8	256.0	256.0	256.1	256.1	256.2	250.2	258.3	256.4	256.5	256.6	256.7	-28°
-28°	256.5	256.6	256.6	256.6	256.7	259.8	256.6	258.8	258.8	257.0	257.0	257.0	257.1	257.2	257.3	257.3	257.4	257.5	257.5	257.6	257.7	-28°
-27°	257.6	257.8	257.7	257.6	257.0	257.8	257.6	257.9	257.9	258.0	253.1	258.2	256.3	258.4	258.5	256.5	258.6	256.7	258.8	253.8	259.0	-27°
-26°	258.6	258.6	256.8	256.9	258.9	256.0	250.0	250.1	259.1	259.2	258.3	259.3	259.4	259.5	259.5	259.7	259.7	258.6	259.8	260.0	250.1	-26°
-25°	258.7	258.8	260.0	260.0	260.1	280.2	260.2	260.2	280.3	260.4	260.4	260.5	260.6	260.7	280.9	260.9	261.0	261.1	261.2	261.3	261.4	-25°
-24°	280.7	260.8	260.9	290.9	260.0	281.0	261.0	281.1	261.2	261.3	261.4	261.9	251.7	261.8	261.9	262.0	282.1	282.2	282.4	262.5	262.6	-24°
-23°	261.7	261.8	281.9	252.1	262.2	262.3	202.4	262.4	262.5	282.8	282.6	282.7	262.9	262.9	203.0	263.1	263.2	263.4	263.5	299.6	263.8	-23°
-22°	282.8	262.9	263.0	283.2	283.3	203.4	263.4	283.5	263.6	283.7	263.8	263.8	263.9	264.0	264.1	264.2	264.3	264.4	264.6	264.3	264.8	-22°
-21°	203.9	264.0	264.2	264.3	284.4	264.5	264.6	284.7	264.8	264.9	265.0	265.0	265.1	265.2	265.3	265.4	265.8	265.7	265.9	266.1	266.2	-21°
-20°	264.9	265.0	265.2	265.3	265 4	265.5	265.6	265.6	265.9	266.0	266.0	266.1	255.2	260.3	286.5	266.7	260.6	256.9	267.1	267.2	267.3	-20°
-19°	265.9	256.0	266.2	260.4	265.5	266.0	268.8	266.9	267.0	267.1	267.2	267.3	297.5	207.6	287.7	268.0	206.1	268.2	296.4	268.5	288.6	-19°
-18°	266.9	207.1	207.2	267.4	267.8	287.7	267.6	288.0	208.1	238.2	269.5	268.8	269.7	268.8	265.9	288.2	268.3	260.4	269.6	260.8	288.9	-18°
-17°	268.0	286.2	288.4	298.6	288.7	286.7	288.1	280.2	288.3	269.5	288.6	259.8	270.0	270.1	270.2	270.4	270.5	270.6	270.6	271.0	271.1	-17°
-16°	268.0	269.2	269.5	269.7	260.9	270.1	270.2	270.3	270.5	270.7	270.8	271.0	271.2	271.3	271.4	271.6	271.7	271.9	272.0	272.2	272.4	-16°
-15°	270.0	270.2	276.6	270.8	271.0	271.2	171.3	271.5	271.6	271.8	272.0	272.2	272.4	272.5	272.7	272.8	272.9	273.1	273.4	273.5	273.7	-15°
-14°	271.0	271.2	271.6	271.9	272.1	272.3	272.4	272.7	272.8	273.0	273.2	273.4	273.8	273.6	274.0	274.2	274.3	274.5	274.7	274.9	275.1	-14°
-13°	272.1	272.4	272.7	273.0	273.3	273.4	273.7	273.8	274.0	274.2	274.5	274.7	274.9	275.1	275.3	275.5	275.6	275.8	276.1	276.3	276.5	-13°
-12°	273.2	273.5	273.7	274.1	274.3	274.5	274.8	275.0	275.2	275.4	275.7	275.8	276.2	278.4	276.0	276.0	277.0	277.2	277.4	277.6	277.8	-12°
-11°	274.2	274.5	274.0	275.1	275.4	275.7	275.9	276.2	270.4	276.7	278.8	277.2	277.5	277.7	277.9	278.2	278.4	279.6	278.8	279.0	270.2	-11°
-10°	275.3	275.6	276.0	276.2	276.5	279.8	277.1	277.3	277.6	277.9	278.2	276.5	278.0	279.1	279.3	270.5	278.7	279.9	280.2	266.4	280.8	-10°
-9°	276.4	276.7	277.1	277.4	277.7	279.6	278.2	278.5	276.0	279.2	270.5	278.9	250.2	260.4	280.6	280.8	281.1	281.4	261.7	282.0	252.4	-9°
-8°	277.4	277.8	278.1	278.5	278.9	279.2	279.5	270.6	260.1	280.4	280.6	281.1	261.4	281.7	281.8	202.2	282.6	282.9	283.3	283.0	283.8	-8°
-7°	278.4	278.8	279.2	279.0	260.0	280.3	280.7	281.0	281.4	261.7	282.0	282.4	262.7	283.0	283.4	283.7	284.1	284.4	284.7	285.1	285.6	-7°
-6°	270.5	270.0	280.3	260.7	281.2	281.6	282.0	282.4	282.8	283.1	283.4	283.6	264.2	204.5	284.9	285.3	285.5	285.0	266.2	286.6	287.0	-6°
-5°	280.6	281.0	261.4	281.0	282.4	262.0	283.3	283.7	264.1	264.4	284.9	285.2	265.7	286.0	286.4	286.7	267.1	267.4	287.0	288.2	288.7	-5°
-4°	281.6	282.0	262.5	283.0	283.0	264.0	284.4	264.0	285.4	285.8	286.3	286.7	287.1	287.6	287.8	288.2	288.7	269.1	289.6	290.0	280.4	-4°
-3°	282.6	283.1	283.7	284.2	284.8	285.2	265.6	286.1	268.6	287.1	287.6	288.0	288.5	260.0	269.4	289.9	200.4	200.8	291.2	291.7	282.1	-3°
-2°	263.6	284.2	264.8	285.4	280.0	289.4	286.8	287.4	288.0	288.5	288.9	289.4	289.0	200.5	290.0	231.5	292.0	292.4	292.6	293.4	283.0	-2°
-1°	284.6	285.3	265.0	286.5	267.2	287.7	268.1	286.7	289.3	280.6	290.3	290.8	291.5	292.1	202.0	293.1	293.6	294.1	294.6	295.1	205.6	-1°
0	265.7	286.4	287.1	267.6	286.4	289.0	280.5	280.1	290.6	291.2	281.7	292.4	283.1	293.6	294.2	294.7	205.4	296.0	296.5	297.0	287.6	0
+1°	266.8	267.6	288.3	299.0	280.6	200.4	200.9	281.4	291.9	292.6	293.3	294.0	294.7	295.3	295.9	296.5	297.2	297.7	299.3	296.9	200.6	+1°
+2°	287.8	288.6	289.4	290.1	291.0	291.7	292.2	202.8	203.5	294.3	204.9	285.6	296.3	297.0	287.7	296.3	298.3	299.6	300.2	300.6	301.4	+2°
+3°	288.0	288.8	290.5	291.4	282.3	292.0	293.6	294.3	295.1	295.8	206.5	207.3	298.1	296.6	209.4	300.2	301.0	301.6	302.2	302.8	303.5	+3°
+4°	290.0	200.8	291.6	292.6	203.5	204.2	204.9	205.0	206.6	287.3	288.1	209.0	209.7	300.4	301.3	302.1	302.9	303.5	304.3	305.0	305.7	+4°
+5°	281.1	282.0	292.0	293.0	204.8	205.0	206.4	297.3	298.1	299.0	288.8	300.6	301.4	302.3	303.2	304.0	304.9	305.7	306.4	307.2	308.0	+5°
+6°	292.1	293.0	294.0	295.1	296.6	297.0	297.0	298.8	200.6	300.7	301.5	302.4	303.3	304.2	305.1	306.0	307.0	307.8	306.6	309.5	310.3	+6°
+7°	293.1	294.1	295.3	296.3	297.4	208.4	299.3	300.4	301.4	302.3	303.1	304.2	305.1	306.0	307.0	306.1	300.0	309.9	310.9	311.7	312.7	+7°
+8°	294.1	295.2	298.4	297.5	206.7	203.6	300.7	301.6	302.9	303.6	304.9	305.9	366.9	308.0	309.1	310.1	311.3	312.2	313.2	314.3	315.2	+8°
+9°	295.2	296.4	297.7	298.8	300.2	301.2	302.3	303.5	304.5	305.9	306.7	307.8	309.0	310.1	011.2	312.4	313.6	314.7	315.7	316.6	317.9	+9°
++0°	288.2	207.6	298.9	300.2	301.6	302.7	303.9	305.0	300.2	307.4	308.5	309.8	310.9	312.3	313.4	314.7	316.0	317.1	316.3	310.4	320.0	+10°
+11°	287	288.7	300.0	301.5	302.9	304.2	305.5	306.7	308.1	309.3	310.8	311.8	313.2	314.4	315.7	317.1	318.4	310.7	320.9	322.3	323.5	+11°
+12°	208.1	298.8	301.2	302.6	304.2	305.7	307.0	308.6	300.9	311.3	312.8	314.0	315.3	016.6	316.0	319.4	320.8	322.2	323.7	325.1	326.6	+12°
+13°	208.4	301.0	302.5	304.1	305.7	307.2	308.6	310.3	311.9	313.3	314.7	316.2	317.7	319.0	320.5	321.9	323.4	324.0	326.5	328.0	329.7	+13°
+14°	300.4	302.0	303.7	305.3	307.1	306.7	310.5	312.2	313.9	315.4	318.9	316.6	320.0	321.6	323.0	324.6	326.0	327.7	329.3	331.0	332.7	+14°
+15°	301.5	303.2	305.0	300.7	308.5	310.3	312.1	314.1	315.9	317.5	318.2	320.8	322.6	324.1	325.7	327.3	326.0	330.6	332.4	334.2	336.0	+15°
+16°	302.6	304.4	300.3	308.2	310.1	312.1	314.0	315.9	317.9	318.6	321.4	323.7	324.9	326.7	326.3	330.0	331.6	333.7	335.5	337.5	339.4	+16°
+17°	303.6	305.5	307.6	309.7	311.7	313.7	315.6	317.0	319.9	321.0	323.7	325.6	327.6	328.4	331.1	333.0	334.8	336.6	339.9	341.0	343.0	+17°
+18°	304.6	306.8	308.0	311.2	313.5	319.6	317.7	219.9	322.1	324.1	326.0	328.1	330.1	332.0	334.0	336.1	338.0	340.1	342.4	344.6	346.8	+18°
+19°	305.6	308.0	310.4	312.6	315.2	317.5	319.0	322.0	324.2	326.4	328.5	330.6	332.1	334.0	337.0	339.1	341.2	343.6	346.0	348.4	350.7	+19°
+20°	306.7	308.2	311.8	314.2	316.5	319.1	321.6	324.0	326.5	328.7	330.0	333.3	335.6	337.9	340.2	342.5	344.9	347.4	349.8	352.3	354.8	+20°
+21°	307.7	310.4	313.1	315.9	318.0	321.1	323.6	326.1	328.7	331.2	333.7	336.2	336.9	341.1	343.6	346.1	348.7	351.3	353.9	358.8	350.2	+21°
+22°	308.7	311.6	314.5	317.4	320.3	323.0	325.7	328.4	331.1	333.8	336.4	339.1	341.8	344.5	347.2	349.7	352.6	355.4	356.1	360.9	363.7	+22°
+23°	308.8	312.8	315.9	318.9	322.0	324.8	327.7	330.5	333.4	339.3	339.2	342.3	345.2	349.1	350.8	353.8	356.7	359.6	262.6	365.6	368.5	+23°
+24°	310.6	314.0	317.3	320.6	323.9	326.9	329.9	333.0	336.0	339.1	342.3	345.4	346.7	351.6	354.8	358.0	361.1	364.2	397.3	370.4	373.6	+24°
+25°	312.0	315.4	318.0	322.4	325.8	329.0	332.2	335.4	338.7	342.1	345.5	348.8	352.3	355.7	356.9	362.2	365.5	368.9	372.3	375.7	370.0	+25°
+26°	313.0	316.7	320.3	324.0	327.7	331.2	334.0	338.1	341.5	345.1	348.8	352.3	359.0	359.6	363.0	366.6	370.2	373.7	377.3	381.0	384.6	+26°
+27°	314.0	317.0	321.7	325.7	320.6	333.3	336.9	340.8	344.5	348.2	352.1	355.8	359.7	363.5	367.3	371.2	375.0	379.0	382.8	386.7	390.6	+27°
+28°	315.0	310.1	323.2	327.4	331.5	335.5	339.5	343.4	347.5	351.4	355.5	359.5	363.6	367.7	371.8	376.0	380.2	384.3	388.5	302.7	306.0	+28°
+29°	318.2	320.5	324.0	326.2	333.7	337.5	342.1	340.3	350.6	354.8	359.1	363.3	367.7	372.0	376.5	381.0	385.4	390.0	394.8	399.1	403.8	+29°
+30°	317.2	321.7	326.4	331.0	335.6	340.2	344.6	349.2	353.7	358.2	362.8	367.3	371.9	376.7	381.3	386.0	300.8	395.6	400.8	405.7	410.7	+30°
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

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

Relative Humidity in %

Temp. in °C	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%	Temp. in °C
-40°	-57,4	-55,5	-53,5	-51,8	-50,3	-49,1	-47,8	-46,8	-45,7	-44,8	-43,9	-43,1	-42,4	-41,7	-41,1	-45,5	-45,0	-40°
-39°	-55,6	-54,5	-52,5	-50,8	-48,3	-48,1	-47,9	-45,8	-44,8	-43,8	-43,0	-42,2	-41,5	-40,7	-40,1	-38,5	-39,5	-39°
-38°	-55,8	-53,6	-51,8	-48,9	-48,4	-47,2	-46,0	-44,9	-43,8	-42,8	-42,5	-41,2	-40,5	-39,8	-35,2	-38,8	-38,5	-38°
-37°	-54,8	-52,8	-55,6	-48,9	-47,4	-48,2	-45,5	-43,2	-42,9	-42,5	-41,1	-40,3	-39,6	-38,8	-38,2	-37,6	-37,5	-37°
-36°	-53,8	-51,7	-49,7	-48,0	-45,4	-45,2	-44,1	-43,5	-41,0	-41,0	-40,2	-39,4	-38,8	-37,9	-37,3	-36,0	-38,0	-36°
-35°	-53,0	-55,7	-48,7	-47,5	-45,4	-44,2	-43,1	-42,5	-41,6	-40,1	-38,2	-38,4	-37,7	-36,8	-36,3	-35,6	-35,5	-35°
-34°	-52,1	-49,8	-47,8	-46,0	-44,5	-43,3	-42,1	-41,0	-45,1	-39,2	-38,3	-37,5	-36,8	-38,0	-35,3	-34,7	-34,0	-34°
-33°	-51,2	-48,8	-46,8	-45,1	-43,5	-42,3	-41,2	-45,1	-38,1	-38,2	-37,4	-36,8	-35,8	-35,0	-34,4	-33,7	-33,5	-33°
-32°	-55,4	-47,9	-45,9	-44,1	-42,6	-41,3	-40,2	-38,1	-38,2	-37,3	-36,5	-35,7	-34,9	-34,1	-33,4	-32,7	-32,5	-32°
-31°	-45,5	-46,9	-44,9	-43,2	-41,8	-40,4	-39,3	-38,2	-37,2	-36,3	-35,5	-34,7	-33,8	-33,1	-32,5	-31,8	-31,5	-31°
-30°	-48,6	-46,0	-44,0	-43,2	-45,6	-39,4	-38,3	-37,2	-38,3	-35,4	-34,6	-33,8	-33,0	-32,2	-31,5	-39,8	-35,0	-30°
-29°	-47,7	-45,2	-43,2	-41,4	-39,8	-38,5	-37,4	-36,3	-35,4	-34,4	-33,6	-32,8	-32,5	-31,2	-30,5	-25,8	-28,5	-29°
-28°	-48,9	-44,2	-42,3	-40,5	-38,9	-37,7	-36,5	-35,4	-34,4	-33,5	-32,7	-31,8	-31,0	-30,2	-29,5	-28,8	-28,5	-28°
-27°	-46,0	-43,5	-41,0	-39,7	-38,1	-36,8	-35,6	-34,5	-33,5	-32,5	-31,7	-30,8	-30,0	-29,2	-28,5	-27,8	-27,0	-27°
-26°	-45,2	-42,7	-40,0	-38,6	-37,3	-35,8	-34,7	-33,6	-32,8	-31,8	-30,7	-29,0	-29,5	-28,2	-27,5	-26,8	-26,5	-26°
-25°	-44,3	-41,8	-39,8	-38,0	-36,4	-35,0	-33,8	-32,8	-31,8	-30,6	-29,7	-28,0	-28,5	-27,2	-26,4	-25,7	-25,5	-25°
-24°	-43,4	-41,3	-38,0	-37,2	-35,5	-34,2	-33,0	-31,7	-30,7	-29,7	-28,8	-27,9	-27,0	-25,2	-25,4	-24,7	-24,5	-24°
-23°	-42,8	-40,2	-38,1	-36,3	-34,8	-33,3	-32,1	-30,8	-29,7	-28,7	-27,8	-23,9	-28,5	-25,2	-24,4	-23,7	-23,0	-23°
-22°	-41,7	-39,4	-37,3	-35,5	-34,0	-32,4	-31,2	-29,9	-28,9	-27,8	-26,8	-25,5	-25,5	-24,2	-23,4	-22,7	-22,0	-22°
-21°	-40,8	-38,0	-38,4	-24,8	-33,1	-31,6	-30,3	-29,5	-27,5	-26,8	-25,9	-25,0	-24,5	-23,2	-22,4	-21,7	-21,0	-21°
-20°	-40,0	-37,7	-35,6	-33,8	-32,3	-30,7	-29,4	-28,1	-27,0	-25,8	-24,0	-24,5	-23,0	-22,2	-21,4	-20,7	-25,0	-20°
-19°	-39,2	-38,8	-34,7	-32,9	-31,4	-29,8	-28,4	-27,1	-28,5	-24,9	-23,9	-23,5	-22,5	-21,2	-20,4	-18,7	-19,0	-18°
-18°	-38,5	-38,5	-33,6	-32,0	-30,4	-28,8	-27,5	-28,2	-25,1	-23,9	-22,9	-22,0	-21,0	-25,2	-19,4	-18,7	-18,5	-18°
-17°	-37,7	-35,2	-33,0	-31,1	-29,5	-27,9	-28,5	-25,2	-24,1	-23,0	-22,0	-21,5	-20,0	-18,2	-18,4	-17,7	-17,0	-17°
-16°	-36,9	-34,4	-33,2	-35,2	-28,8	-27,0	-25,8	-24,3	-23,1	-22,0	-21,0	-20,0	-19,0	-18,2	-17,4	-16,7	-16,5	-16°
-15°	-36,1	-33,5	-31,3	-23,3	-27,8	-26,5	-24,8	-23,9	-22,1	-21,5	-20,5	-18,5	-19,5	-17,2	-16,4	-15,7	-15,5	-15°
-14°	-35,4	-32,7	-35,4	-28,5	-26,7	-25,1	-23,7	-22,3	-21,2	-20,0	-18,5	-18,1	-17,1	-16,2	-15,4	-14,7	-14,0	-14°
-13°	-34,8	-31,9	-29,6	-27,8	-25,8	-24,2	-22,7	-21,4	-20,2	-19,0	-18,0	-17,1	-16,1	-15,2	-14,4	-13,7	-13,0	-13°
-12°	-33,8	-31,1	-28,7	-26,7	-24,9	-23,3	-21,8	-20,4	-18,2	-18,1	-17,1	-16,1	-15,1	-14,2	-13,4	-12,7	-12,0	-12°
-11°	-33,1	-30,2	-27,9	-25,8	-23,9	-22,3	-25,8	-19,5	-18,3	-17,1	-16,1	-15,1	-14,1	-13,2	-12,4	-11,7	-11,0	-11°
-10°	-32,3	-29,4	-27,5	-24,9	-23,0	-21,4	-19,9	-18,5	-17,3	-16,1	-15,1	-14,1	-13,1	-12,2	-11,4	-15,7	-15,5	-10°
- 9°	-31,4	-28,5	-26,1	-23,9	-22,1	-20,4	-18,9	-17,5	-16,3	-15,2	-14,1	-23,1	-12,2	-11,3	-10,5	- 5,2	- 8,5	- 9°
- 8°	-22,5	-27,6	-25,1	-23,0	-21,1	-19,5	-18,0	-16,6	-15,3	-14,2	-13,2	-12,2	-11,2	-15,3	- 9,5	- 8,8	- 8,0	- 8°
- 7°	-29,8	-26,6	-24,2	-22,0	-20,1	-18,5	-17,0	-15,8	-14,4	-13,3	-12,2	-11,2	-10,3	- 9,4	- 8,6	- 7,8	- 7,0	- 7°
- 6°	-28,7	-25,7	-23,2	-21,1	-19,2	-17,5	-18,1	-14,7	-13,4	-12,3	-11,3	-15,3	- 9,3	- 8,4	- 7,6	- 6,9	- 6,0	- 6°
- 5°	-27,8	-24,8	-22,3	-20,1	-18,2	-16,6	-15,2	-13,7	-12,4	-11,4	-15,3	- 9,3	- 8,4	- 7,5	- 6,7	- 5,9	- 5,0	- 5°
- 4°	-27,0	-24,5	-21,5	-18,3	-17,4	-15,8	-14,3	-12,8	-11,5	-10,5	- 8,4	- 8,4	- 7,5	- 6,5	- 5,7	- 4,9	- 4,0	- 4°
- 3°	-26,2	-23,2	-20,7	-18,5	-18,6	-14,8	-13,4	-12,5	-10,7	- 9,6	- 8,5	- 7,5	- 8,6	- 5,6	- 4,7	- 3,9	- 3,5	- 3°
- 2°	-25,3	-22,4	-19,9	-17,8	-15,7	-14,1	-12,5	-11,1	- 9,8	- 8,7	- 7,0	- 8,7	- 5,5	- 4,7	- 3,8	- 2,8	- 2,0	- 2°
- 1°	-24,5	-21,8	-18,1	-18,8	-14,8	-13,2	-11,7	-10,3	- 9,5	- 7,8	- 6,7	- 5,8	- 4,7	- 3,7	- 2,8	- 1,9	- 1,5	- 1°
5°	-23,4	-20,8	-18,2	-10,0	-14,1	-12,4	-10,8	- 8,4	- 8,1	- 6,5	- 5,8	- 4,8	- 3,6	- 2,8	- 1,8	- 0,9	0,0	5°
+ 1°	-23,0	-20,0	-17,4	-15,2	-13,2	-11,5	-10,0	- 8,5	- 7,2	- 6,0	- 4,0	- 3,8	- 2,8	- 1,8	- 0,8	+ 5,1	+ 1,0	+ 1°
+ 2°	-22,2	-18,2	-18,6	-14,3	-12,4	-10,7	- 9,2	- 7,7	- 8,4	- 5,0	- 4,0	- 2,9	- 1,8	- 0,8	+ 0,2	+ 1,1	+ 2,5	+ 2°
+ 3°	-21,5	-18,3	-15,7	-13,5	-11,5	- 8,8	- 8,3	- 8,8	- 5,8	- 4,1	- 3,0	- 2,0	- 0,8	+ 0,1	+ 1,1	+ 2,5	+ 3,5	+ 3°
+ 4°	-20,7	-17,5	-14,9	-12,6	-15,7	- 8,0	- 7,5	- 6,5	- 4,7	- 3,1	- 2,1	- 1,0	- 0,2	+ 1,1	+ 2,1	+ 3,0	+ 4,5	+ 4°
+ 5°	-20,0	-16,7	-14,0	-11,8	- 9,8	- 8,1	- 6,8	- 5,1	- 3,8	- 2,2	- 1,2	5,0	+ 1,2	+ 2,1	+ 3,1	+ 4,0	+ 5,0	+ 5°
+ 6°	-18,1	-15,9	-13,2	-11,0	- 9,0	- 7,2	- 5,7	- 4,2	- 2,8	- 1,3	- 0,2	+ 1,0	+ 2,2	+ 3,1	+ 4,1	+ 5,5	+ 8,0	+ 6°
+ 7°	-18,3	-15,1	-12,4	-10,2	- 8,1	- 6,4	- 4,8	- 3,2	- 1,8	- 0,3	+ 0,8	+ 2,0	+ 3,9	+ 4,1	+ 5,1	+ 6,0	+ 7,0	+ 7°
+ 8°	-17,4	-14,3	-11,7	- 9,3	- 7,3	- 5,5	- 3,8	- 2,3	- 5,5	+ 5,8	+ 1,7	+ 3,0	+ 4,1	+ 5,1	+ 6,1	+ 7,1	+ 8,0	+ 8°
+ 9°	-16,6	-13,5	-10,9	- 8,5	- 6,4	- 4,7	- 2,9	- 1,3	+ 5,1	+ 1,8	+ 2,7	+ 4,0	+ 5,1	+ 6,1	+ 7,1	+ 8,1	+ 8,0	+ 9°
+10°	-15,7	-12,7	-15,1	- 7,7	- 5,8	- 3,8	- 2,5	- 0,4	+ 1,1	+ 2,5	+ 3,7	+ 5,0	+ 6,1	+ 7,1	+ 8,1	+ 8,1	+10,5	+10°
+11°	-14,0	-11,0	- 9,2	- 6,8	- 4,7	- 2,9	- 1,1	+ 0,6	+ 2,1	+ 3,5	+ 4,7	+ 5,9	+ 7,0	+ 8,1	+ 8,1	+10,1	+11,5	+11°
+12°	-14,1	-11,0	- 8,4	- 6,0	- 3,8	- 2,0	- 0,1	+ 1,8	+ 3,5	+ 4,5	+ 5,8	+ 6,8	+ 8,5	+ 5,0	+15,1	+11,1	+12,0	+12°
+13°	-13,3	-10,2	- 7,5	- 5,1	- 3,0	- 1,0	+ 0,8	+ 2,8	+ 4,0	+ 5,5	+ 5,6	+ 7,8	+ 8,8	+15,5	+11,5	+12,0	+13,0	+13°
+14°	-12,5	- 9,3	- 6,7	- 4,3	- 2,1	- 0,1	+ 1,8	+ 3,8	+ 4,8	+ 6,5	+ 7,5	+ 8,7	+ 0,8	+15,9	+12,5	+13,5	+14,5	+14°
+15°	-11,7	- 8,8	- 5,8	- 3,4	- 1,2	+ 0,8	+ 2,7	+ 4,8	+ 5,9	+ 7,5	+ 8,5	+ 9,8	+10,8	+11,8	+13,5	+14,5	+15,0	+15°
+16°	-11,0	- 7,6	- 5,0	- 2,0	- 0,3	+ 1,7	+ 3,6	+ 5,4	+ 6,7	+ 8,4	+ 9,4	+10,5	+11,7	+12,9	+14,0	+15,0	+16,0	+16°
+17°	-10,3	- 7,0	- 4,3	- 1,8	+ 0,5	+ 2,5	+ 4,4	+ 6,2	+ 7,6	+ 9,2	+15,3	+11,4	+12,7	+13,8	+14,8	+16,5	+17,0	+17°
+18°	- 9,7	- 6,3	- 3,5	- 0,9	+ 1,4	+ 3,4	+ 5,3	+ 7,0	+ 8,4	+15,1	+11,1	+12,4	+13,8	+14,8	+15,9	+16,8	+18,5	+18°
+19°	- 5,0	- 5,5	- 2,8	- 5,1	+ 2,2	+ 4,2	+ 6,1	+ 7,8	+ 9,3	+15,9	+12,0	+13,3	+14,3	+15,7	+18,8	+17,9	+19,5	+19°
+20°	- 8,3	- 4,8	- 2,0	+ 0,7	+ 3,1	+ 5,1	+ 7,0	+ 8,6	+10,1	+11,8	+12,8	+14,2	+15,5	+18,7	+17,8	+18,9	+20,0	+20°
+21°	- 7,0	- 4,1	- 1,2	+ 1,5	+ 3,9	+ 5,8	+ 7,8	+ 9,5	+11,0	+12,7	+13,8	+15,2	+16,5	+17,7	+18,8	+18,5	+21,0	+21°
+22°	- 6,8	- 3,4	- 5,4	+ 2,3	+ 4,7	+ 5,8	+ 8,7	+15,4	+11,5	+13,5	+14,8	+16,1	+17,4	+18,7	+19,8	+25,9	+22,0	+22°
+23°	- 6,1	- 2,6	+ 0,3	+ 3,1	+ 5,6	+ 7,6	+ 9,5	+11,2	+12,3	+14,4	+15,7	+17,1	+18,4	+19,6	+20,8	+21,9	+23,0	+23°
+24°	- 5,3	- 1,8	+ 1,1	+ 3,8	+ 6,4	+ 8,5	+10,4	+12,1	+13,7	+15,2	+16,7	+18,0	+19,3	+25,6	+21,8	+22,8	+24,0	+24°
+25°	- 4,6	- 1,2	+ 1,5	+ 4,6	+ 7,2	+ 8,3	+11,2	+13,0	+14,8	+10,1	+17,6	+19,0	+20,3	+21,6	+22,8	+23,9	+25,0	+25°
+26°	- 3,5	- 0,3	+ 2,7	+ 5,5	+ 8,0	+15,1	+12,1	+13,8	+15,5	+17,1	+15,6	+25,0	+21,3	+22,6	+23,8	+24,5	+26,0	+26°
+27°	- 3,5	+ 5,5	+ 3,8	+ 6,3	+ 8,9	+11,5	+13,5	+14,8	+16,5	+18,1	+19,0	+21,0	+22,3	+23,8	+24,8	+25,9	+27,5	+27°
+28°	- 2,2	+ 1,4	+ 4,4	+ 7,2	+ 8,7	+11,8	+13,8	+15,7	+17,4	+10,1	+20,5	+22,0	+23,3	+24,6	+25,9	+27,5	+28,0	+28°
+29°	- 1,4	+ 2,3	+ 5,3	+ 8,0	+10,6	+12,7	+14,7	+16,6	+18,4	+20,0	+21,5	+23,0	+24,3	+25,5	+23,9	+28,5	+28,5	+29°
+35°	- 0,5	+ 3,2	+ 6,1	+ 8,8	+11,4	+13,0	+15,8	+17,5	+19,3	+21,5	+22,5	+24,0	+25,3	+28,6	+27,9	+28,5	+35,0	+35°
+31°	+ 0,2	+ 2,9	+ 6,9	+ 9,7	+12,3	+14,4	+16,5	+18,5	+20,3	+22,1	+23,4	+24,9	+28,2	+27,6	+28,8	+30,0	+31,0	+31°
+32°	+ 1,5	+ 4,5	+ 7,7	+10,5	+13,1	+15,4	+17,5	+18,4	+21,2	+23,2	+24,4	+25,9	+27,2	+28,5	+29,8	+30,9	+32,5	+32°
+33°	+ 1,7	+ 5,4	+ 8,4	+11,3	+14,0	+16,3	+18,4	+20,4	+22,2	+24,4	+25,3	+26,8	+28,1	+28,5	+35,7	+31,8	+33,0	+33°
+34°	+ 2,5	+ 6,1	+ 9,2	+12,1	+14,8	+17,3	+18,4	+21,3	+23,1	+25,5	+26,3	+27,8	+29,1	+35,4	+31,7	+32,8	+34,5	+34°
+35°	+ 3,3	+ 6,8	+15,5	+12,9	+15,7	+18,2	+20,3	+22,3	+24,1	+26,6	+27,2	+28,7	+30,5	+31,4	+32,5	+33,8	+35,0	+35°
+36°	+ 4,5	+ 7,6	+15,9	+13,8	+16,8	+18,0	+21,2	+23,2	+25,0	+27,3	+28,1	+29,8	+30,9	+32,4	+33,6	+24,8	+36,0	+36°
+37°	+ 4,8	+ 8,4	+11,7	+14,8	+17,4	+19,9	+22,1	+24,1	+25,9	+28,0	+29,0	+35,5	+31,8	+33,3	+34,6	+35,8	+37,5	+37°
+38°	+ 5,5	+ 8,3	+12,6	+15,5	+18,3	+20,7	+22,8	+25,5	+26,7	+28,8	+35,5	+31,5	+32,8	+34,3	+35,5	+38,6	+38,0	+38°
+39°	+ 5,3	+15,1	+13,4	+18,3	+18,1	+21,6	+23,8	+25,9	+27,6	+29,5	+30,9	+32,4	+33,8	+35,2	+36,5	+37,8	+39,0	+39°
+45°	+ 7,0	+10,8	+14,3	+17,2	+25,0	+22,4	+24,7	+26,8	+28,5	+30,2	+31,8	+33,3	+34,7	+36,2	+37,5	+38,8	+40,5	+40°

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

Relative Humidity in %

P = 500mb

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	284.9	284.1	284.1	284.1	294.2	284.2	284.3	284.3	294.4	294.4	294.5	204.5	284.9	284.9	294.7	294.7	294.8	284.9	284.9	-40°
-39°	285.3	295.3	285.4	295.4	285.4	285.4	285.5	285.6	285.6	295.6	285.7	295.7	285.9	295.8	295.9	285.9	296.0	299.0	299.1	296.1	289.2	-39°
-38°	286.5	286.5	288.5	286.6	296.7	266.7	290.8	286.8	296.8	289.9	297.0	297.0	297.1	297.1	287.2	297.2	287.3	297.3	287.4	287.4	287.5	-38°
-37°	287.7	287.7	287.8	287.9	287.8	297.9	289.0	299.0	286.1	289.1	289.2	299.2	298.3	289.3	299.4	289.4	299.5	286.6	286.6	299.7	289.6	-37°
-36°	288.9	288.9	288.0	280.0	289.1	299.1	289.2	299.2	289.3	289.4	299.4	299.5	299.6	299.6	299.7	299.7	289.8	299.9	280.0	290.0	200.1	-39°
-35°	290.1	290.1	280.2	290.2	290.3	290.4	290.4	290.5	290.0	290.7	290.7	290.8	280.8	291.0	291.0	291.1	291.2	291.2	291.3	291.3	281.4	-35°
-34°	291.3	291.4	291.4	291.5	291.6	291.7	291.7	291.8	291.8	292.0	292.0	292.1	202.2	292.3	292.3	292.4	292.5	292.5	292.6	292.6	292.7	-34°
-33°	292.5	292.6	292.6	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	293.9	293.6	293.8	293.9	294.0	-33°
-32°	283.7	293.9	283.9	293.9	204.0	294.1	294.1	294.3	294.4	294.5	294.8	294.7	284.8	294.9	294.9	295.0	295.1	295.2	295.2	295.3	295.4	-32°
-31°	294.9	295.0	298.1	295.2	295.3	295.4	295.5	295.6	295.7	295.8	295.9	209.0	296.1	298.2	298.2	299.3	289.4	290.5	299.6	299.9	296.7	-31°
-30°	298.2	298.3	298.4	296.5	299.6	296.7	296.9	296.9	297.0	297.1	297.2	297.3	297.4	297.8	297.5	297.6	297.7	297.9	297.9	297.9	299.0	-30°
-29°	297.4	297.5	297.5	297.7	297.8	287.8	299.0	298.2	299.3	290.4	299.5	299.7	299.8	299.9	299.0	299.0	299.1	299.2	299.3	299.4	299.6	-29°
-28°	298.6	298.7	298.6	208.9	299.0	299.2	299.3	299.4	299.0	299.7	209.8	300.0	300.1	300.2	300.3	300.5	300.9	300.7	300.9	300.9	301.0	-28°
-27°	299.9	299.9	300.0	300.2	300.3	300.4	300.6	300.7	300.9	301.0	301.1	301.3	301.4	301.5	301.7	301.6	302.0	302.1	302.2	302.4	302.5	-27°
-26°	301.1	301.2	301.3	301.5	301.6	301.7	301.9	302.0	302.2	302.4	302.5	302.0	302.9	303.0	303.1	303.2	303.4	303.5	303.7	303.8	304.0	-26°
-25°	302.3	302.4	302.6	302.7	302.9	303.1	303.2	303.4	303.0	303.7	303.9	394.0	304.2	304.4	304.5	304.7	304.9	305.0	305.2	305.3	305.5	-25°
-24°	303.5	303.6	303.6	303.9	304.1	304.3	304.5	304.8	305.0	305.1	305.2	305.4	305.5	305.7	305.9	306.2	309.4	306.5	309.7	305.6	307.0	-24°
-23°	304.7	304.9	205.0	305.2	305.4	305.7	305.9	309.1	306.4	306.5	306.9	309.7	309.9	307.1	307.3	307.9	307.9	309.0	306.2	309.3	309.5	-23°
-22°	305.9	300.1	306.3	306.5	306.7	307.0	307.2	307.5	307.8	307.9	309.0	309.2	308.3	309.6	306.9	308.1	309.4	309.5	309.7	309.9	310.1	-22°
-21°	307.1	307.3	307.5	307.9	309.0	309.3	309.6	308.9	309.2	309.3	309.4	309.6	309.7	310.0	310.3	310.6	310.9	311.1	311.3	311.5	311.7	-21°
-20°	309.4	309.6	308.8	309.1	309.3	309.8	309.9	310.3	310.0	310.7	310.9	311.0	311.2	311.5	311.9	312.1	312.4	312.6	312.9	313.0	313.2	-20°
-19°	309.8	309.9	310.1	310.4	310.7	311.0	311.3	311.6	311.8	312.1	312.2	312.4	312.6	312.9	313.3	313.6	314.0	314.2	314.5	314.7	315.0	-19°
-18°	310.8	311.1	311.4	311.7	312.0	312.3	312.6	313.0	313.3	313.5	313.7	313.9	314.1	314.5	314.9	315.2	315.6	315.9	316.1	316.4	316.7	-18°
-17°	312.0	312.3	312.7	313.0	313.4	313.7	314.1	314.4	314.8	315.0	315.2	315.4	315.7	316.1	316.5	316.9	317.3	317.6	317.9	319.1	319.4	-17°
-16°	313.2	313.6	314.0	314.3	314.7	315.0	315.4	315.8	316.2	316.4	315.7	316.9	317.2	317.6	319.0	316.5	316.9	319.2	319.5	319.9	320.1	-16°
-15°	314.4	314.9	315.2	316.7	316.1	316.5	316.8	317.2	317.6	317.9	318.2	318.5	318.8	319.2	319.6	320.1	320.5	320.6	321.2	321.5	321.9	-15°
-14°	315.6	316.1	318.5	317.0	317.5	317.9	319.3	319.7	310.1	319.4	319.7	320.1	320.4	320.9	321.3	321.6	322.3	322.7	323.0	323.4	323.9	-14°
-13°	318.9	317.4	317.6	318.3	318.8	319.2	319.7	320.2	320.6	321.0	321.4	321.7	322.1	322.6	323.1	323.6	324.1	324.5	324.6	325.2	325.6	-13°
-12°	319.1	318.6	319.1	319.7	320.2	320.7	321.1	321.6	322.1	322.6	322.9	323.4	323.8	324.3	324.9	325.4	325.9	326.3	326.7	327.1	327.5	-12°
-11°	319.4	320.0	320.6	321.2	321.7	322.2	322.6	323.1	323.6	324.1	324.6	325.1	325.6	329.1	329.6	327.2	327.7	329.1	328.6	329.0	329.5	-11°
-10°	320.6	321.2	321.9	322.5	323.2	323.7	324.1	324.6	325.1	325.8	329.2	326.7	327.3	327.9	328.4	326.0	329.6	330.1	330.5	331.0	331.5	-10°
-9°	321.8	322.5	323.2	323.9	324.9	325.1	325.6	320.2	326.7	327.3	327.9	329.9	329.2	329.6	330.4	331.0	331.6	332.1	332.6	333.1	333.6	-9°
-8°	323.0	323.7	324.5	325.2	326.0	326.6	327.2	327.6	328.4	329.0	329.7	330.3	331.0	331.6	332.3	332.9	333.0	334.1	334.7	335.2	335.8	-8°
-7°	324.2	325.0	325.6	328.6	327.4	329.0	328.7	329.4	330.0	330.7	331.4	332.2	332.8	333.9	334.3	335.0	335.7	336.3	336.9	337.5	338.1	-7°
-6°	325.4	326.2	327.1	327.9	329.0	329.5	330.2	331.0	351.7	332.5	333.2	334.0	334.8	335.6	336.3	337.1	337.8	339.5	339.2	339.9	340.5	-6°
-5°	326.7	327.6	328.5	329.4	330.3	331.1	331.9	332.8	333.6	334.4	335.2	336.0	336.8	337.6	336.4	339.3	340.1	340.6	341.5	342.3	343.0	-5°
-4°	327.8	328.9	329.6	330.9	331.8	332.7	333.5	334.4	335.3	336.2	337.0	337.9	338.8	339.7	340.6	341.5	342.4	343.2	344.0	344.9	345.7	-4°
-3°	329.1	330.1	331.2	332.2	333.3	334.2	335.2	336.1	337.1	339.0	339.9	339.8	340.8	341.8	342.9	343.6	344.5	345.7	346.6	347.5	348.4	-3°
-2°	330.3	331.4	332.8	333.7	334.9	335.9	339.9	337.9	338.9	339.9	340.9	341.9	342.9	344.0	345.1	346.2	347.3	348.3	349.2	350.2	351.2	-2°
-1°	531.5	332.7	334.0	335.2	336.5	337.0	338.6	339.7	340.8	341.8	343.0	344.0	345.1	346.3	347.4	348.6	349.6	350.9	352.0	353.0	354.1	-1°
0	332.8	334.1	335.4	336.6	338.1	339.3	340.4	341.6	342.8	343.8	345.1	349.2	347.4	349.6	349.9	351.1	352.4	353.6	354.7	355.9	357.1	0
+1°	334.0	335.4	336.9	338.3	330.7	341.0	342.3	343.6	344.9	348.1	347.4	348.6	349.8	351.2	352.5	353.9	355.2	356.4	357.6	359.9	360.1	+1°
+2°	335.2	336.7	339.2	338.8	341.3	342.7	344.1	345.5	347.0	346.3	349.7	351.0	352.4	353.6	355.2	356.6	356.0	359.3	360.6	362.0	363.3	+2°
+3°	339.4	338.0	339.7	341.3	343.0	344.5	340.1	347.6	348.2	350.6	352.0	353.5	354.9	359.4	357.9	359.4	360.9	362.3	363.9	365.2	366.7	+3°
+4°	337.8	338.4	341.1	342.9	344.7	346.3	348.0	349.9	351.3	352.8	354.4	356.0	357.6	359.2	390.7	362.3	363.9	365.5	367.0	368.6	370.2	+4°
+5°	338.9	340.9	342.6	344.5	346.4	348.2	348.9	351.7	353.5	355.2	356.8	359.6	360.3	392.0	363.8	365.3	367.0	366.7	370.4	372.1	373.8	+5°
+6°	340.1	342.1	344.1	346.1	348.1	350.0	352.0	353.9	355.9	357.7	359.4	361.3	363.0	364.9	396.7	368.5	370.4	372.2	373.9	375.6	377.4	+6°
+7°	341.3	343.4	345.5	347.7	349.8	351.9	354.0	359.1	358.2	360.1	362.0	364.0	365.9	367.9	369.9	371.9	373.9	375.7	377.5	379.4	391.2	+7°
+8°	342.5	344.0	347.0	348.3	351.6	353.8	359.0	358.3	390.5	362.8	364.6	396.7	369.8	371.0	373.2	375.4	377.6	379.6	381.4	383.4	385.3	+8°
+9°	343.7	346.1	348.6	351.0	353.5	355.9	350.2	360.5	362.9	365.1	367.4	399.9	371.8	374.3	376.6	379.0	391.4	393.5	395.6	397.9	389.9	+9°
+10°	345.0	347.6	350.2	352.9	355.4	357.9	360.4	362.9	365.4	367.8	370.3	372.7	375.2	377.7	390.3	382.9	385.4	387.9	390.2	392.6	395.0	+10°
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

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	258.4	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	259.4	259.5	259.5	259.5	259.8	259.6	259.8	-39°
-38°	260.2	260.2	260.3	260.3	260.4	260.4	260.4	260.5	260.5	260.5	260.8	260.8	260.8	260.6	260.6	260.7	260.7	260.7	260.8	260.8	260.8	-38°
-37°	281.3	281.3	281.4	261.4	261.5	261.5	281.8	281.8	261.8	281.6	201.7	281.7	261.8	281.8	281.8	261.8	281.6	281.8	261.8	281.9	202.0	-37°
-36°	262.4	262.4	282.5	282.6	282.8	282.8	262.8	262.7	282.8	202.8	282.8	263.8	282.9	282.9	262.9	283.0	283.0	283.0	283.0	283.1	263.2	-36°
-35°	263.5	203.6	283.7	283.8	283.8	263.8	263.8	203.9	263.9	263.8	264.0	264.0	264.1	264.1	264.2	264.2	264.2	264.2	264.2	264.3	264.4	-35°
-34°	264.6	264.7	264.8	264.8	264.9	264.9	265.0	285.0	265.0	265.0	265.1	265.2	265.2	265.2	265.3	265.4	385.4	265.4	265.5	265.6	265.8	-34°
-33°	265.7	265.8	265.9	288.0	266.0	286.0	288.0	286.1	266.2	288.2	265.2	266.3	268.4	268.4	286.5	268.8	286.6	288.8	288.7	288.8	286.8	-33°
-32°	268.8	286.9	287.0	287.1	267.2	287.2	207.2	267.3	267.4	287.4	267.4	267.5	267.5	267.8	287.8	287.7	267.8	267.8	267.8	287.9	268.0	-32°
-31°	267.9	260.0	268.1	288.2	269.3	288.3	268.4	265.4	288.5	288.5	268.8	268.8	263.7	269.8	288.0	268.9	289.0	209.0	289.1	209.2	289.2	-31°
-30°	260.1	289.2	288.3	289.4	289.4	289.4	289.4	269.5	269.6	280.7	280.8	289.9	288.0	270.0	270.1	270.2	270.2	270.2	270.3	270.4	270.4	-30°
-29°	270.2	270.3	270.4	270.5	270.5	270.5	270.8	270.6	270.7	270.8	270.9	271.0	271.0	271.1	271.2	271.3	271.3	271.4	271.5	271.6	271.7	-29°
-28°	271.3	271.4	271.5	271.8	271.6	271.7	271.8	271.9	271.9	272.0	272.1	272.2	272.2	272.3	272.4	272.5	272.6	272.7	272.0	272.9	272.9	-28°
-27°	272.4	272.5	272.8	272.7	272.8	272.8	272.8	272.9	273.1	273.1	273.2	273.3	273.4	273.5	273.8	273.8	273.9	274.0	274.0	274.1	274.2	-27°
-28°	273.5	273.8	273.7	273.8	273.9	274.0	274.1	274.2	274.3	274.4	274.4	274.5	274.8	274.7	274.8	275.0	275.1	275.2	275.2	275.3	375.4	-28°
-25°	274.7	274.8	274.9	275.0	275.1	275.2	275.3	275.4	275.5	275.6	275.7	275.8	275.9	278.0	276.1	276.2	276.4	276.5	278.5	278.6	278.7	-25°
-24°	275.8	275.9	276.0	276.1	278.2	278.3	276.4	278.6	276.7	276.8	276.9	277.1	277.2	277.3	277.4	277.5	277.8	277.7	277.8	277.8	278.0	-24°
-23°	278.9	277.0	277.1	277.3	277.4	277.5	277.8	277.8	277.9	278.0	278.1	278.3	278.4	278.5	278.6	278.8	278.9	279.0	279.1	279.3	279.4	-23°
-22°	278.0	278.1	278.2	278.4	278.5	278.8	278.8	278.0	279.1	279.2	279.3	279.5	279.8	279.7	279.9	280.0	280.2	280.3	280.4	280.8	280.7	-22°
-21°	279.1	279.2	279.4	279.5	279.7	279.8	280.0	280.1	280.3	280.4	280.8	280.7	280.9	281.0	281.2	281.3	281.6	281.8	281.7	281.8	281.9	-21°
-20°	280.2	280.5	280.5	280.6	280.8	281.0	281.2	281.4	281.8	281.7	281.9	282.0	282.2	282.3	282.4	282.5	282.7	282.8	283.0	283.1	283.3	-20°
-19°	281.3	281.5	281.8	281.8	282.0	282.2	282.4	282.6	282.8	282.9	283.1	283.2	283.4	283.6	283.7	283.5	234.1	284.2	284.4	284.6	284.7	-19°
-16°	282.4	282.8	282.8	283.0	283.2	283.4	283.0	283.8	284.0	284.2	284.3	284.5	284.7	284.9	285.1	285.3	255.5	285.8	285.8	285.9	288.1	-18°
-17°	283.5	283.7	283.9	284.1	284.3	284.5	284.7	285.0	285.2	288.4	285.8	285.8	288.0	288.2	286.4	288.8	286.8	287.0	267.1	287.3	287.5	-17°
-16°	284.6	284.8	285.0	285.3	285.5	265.7	285.9	288.2	288.4	288.8	288.8	287.1	287.3	287.5	287.7	288.0	288.2	288.4	288.8	288.8	289.0	-16°
-15°	285.7	285.9	288.2	286.4	236.7	288.9	287.2	287.4	287.7	287.8	286.1	288.4	288.6	288.8	289.1	288.3	289.6	289.8	290.0	290.2	290.4	-15°
-14°	288.8	287.1	287.3	287.6	287.9	288.2	288.4	288.7	289.0	280.2	289.5	289.7	290.0	290.2	290.5	290.7	291.0	291.2	291.4	291.7	281.0	-14°
-13°	287.9	288.2	288.5	288.8	289.1	289.4	289.7	290.0	290.3	290.6	290.8	291.1	291.4	291.7	292.0	292.2	292.5	292.7	293.0	292.2	293.4	-13°
-12°	289.0	289.3	289.6	290.0	290.3	290.6	290.9	291.3	201.8	291.9	282.2	292.5	282.8	293.1	293.4	293.7	294.0	294.2	294.5	294.7	285.0	-12°
-11°	290.1	290.4	290.8	291.1	291.5	291.8	292.2	202.5	292.9	293.2	293.5	293.0	294.2	294.5	294.8	298.2	205.5	205.8	286.0	298.3	296.8	-11°
-10°	291.2	291.8	291.9	282.3	292.7	203.0	293.4	283.7	294.1	204.5	294.8	205.2	205.8	295.9	298.3	298.8	297.0	297.3	297.6	297.9	295.2	-10°
-9°	202.3	292.7	293.1	293.6	294.0	294.4	294.7	295.1	295.5	295.9	296.3	298.7	207.1	297.5	297.8	288.2	298.6	299.0	299.3	299.6	300.0	-9°
-8°	293.4	295.8	294.3	294.7	295.2	295.8	286.0	296.6	288.9	297.3	297.7	298.2	299.8	299.0	299.4	298.9	300.3	300.7	301.0	301.4	301.8	-8°
-7°	294.8	295.0	295.5	298.0	296.5	296.9	297.4	297.8	298.3	298.7	209.2	299.6	300.1	300.8	301.9	302.5	302.0	302.4	302.8	303.3	303.7	-7°
-6°	295.6	298.1	296.7	297.2	297.8	298.3	298.8	299.3	289.8	300.3	300.8	301.2	301.7	302.2	302.7	303.2	303.7	304.2	304.8	305.1	305.6	-6°
-5°	288.8	297.4	298.0	298.6	299.2	298.7	300.2	300.8	301.3	301.8	302.3	302.6	303.3	3.3.8	304.3	304.9	305.4	305.9	308.4	307.0	307.5	-5°
-4°	297.9	298.5	299.1	299.8	300.4	301.0	301.5	302.1	302.7	303.2	303.8	304.3	304.9	305.4	308.1	306.7	307.3	307.8	308.3	308.9	308.4	-4°
-3°	299.0	290.8	300.3	300.0	301.8	302.2	302.5	303.5	304.1	304.7	305.4	308.0	300.8	307.2	307.9	308.5	309.2	309.7	310.3	319.8	311.4	-3°
-2°	300.1	300.8	301.5	302.2	302.0	303.8	304.2	304.8	305.5	308.2	308.9	307.8	308.3	309.0	309.7	310.4	311.1	311.7	312.3	312.9	313.5	-2°
-1°	301.2	302.0	302.7	303.5	304.3	305.0	305.6	306.3	307.0	307.7	308.5	309.2	310.0	310.7	311.5	312.2	313.0	313.8	314.3	314.8	315.8	-1°
0	302.3	303.1	303.9	304.8	305.6	306.3	307.1	307.8	308.6	309.4	310.1	310.9	311.7	312.5	313.3	314.2	315.0	315.7	316.3	317.0	317.7	0
+1°	303.4	304.3	305.1	306.0	308.9	307.7	308.5	309.4	310.2	311.0	311.9	312.7	313.8	314.5	315.3	310.2	317.1	317.8	318.5	319.3	320.0	+1°
+2°	304.5	305.4	308.4	307.3	308.3	309.2	310.0	310.9	311.8	312.7	313.8	314.5	315.4	316.3	317.3	318.2	319.2	320.0	320.8	321.7	322.5	+2°
+3°	305.6	306.8	307.7	308.7	309.8	310.7	311.8	312.8	313.5	314.4	315.4	318.3	317.3	318.2	319.3	320.4	321.4	322.3	323.2	324.2	325.1	+3°
+4°	306.7	307.8	309.0	310.1	311.3	312.3	313.3	314.3	315.3	316.3	317.3	318.3	319.3	320.4	331.5	322.8	323.7	324.7	325.7	328.7	327.7	+4°
+5°	307.9	309.1	310.3	311.8	312.8	313.9	314.8	318.0	317.1	318.2	318.2	320.3	321.4	322.8	323.7	324.9	326.1	327.2	328.2	329.3	330.4	+5°
+6°	309.0	310.3	311.6	312.9	314.2	315.4	318.5	317.7	318.9	320.1	321.2	322.4	323.8	324.8	328.0	227.3	328.5	328.7	330.8	332.0	333.2	+6°
+7°	310.1	311.4	312.8	314.1	315.5	318.9	318.1	319.5	320.8	322.0	323.3	324.5	325.8	327.1	328.3	329.8	330.9	332.1	333.4	334.8	335.9	+7°
+8°	311.2	312.6	314.0	315.5	318.9	318.3	319.8	321.2	322.7	324.0	325.3	328.7	328.0	329.4	330.7	332.1	333.5	334.8	338.1	337.5	338.8	+8°
+9°	312.3	313.8	315.3	316.9	318.4	310.9	321.5	323.0	324.8	326.0	327.5	329.0	330.4	331.8	333.3	334.8	338.2	337.8	339.0	340.5	341.9	+9°
+10°	313.4	315.0	316.7	318.3	320.0	321.6	323.3	324.9	328.6	328.1	328.7	331.2	332.8	334.4	338.0	337.5	338.1	340.6	342.1	343.0	345.1	+10°
+11°	314.5	316.2	318.0	319.7	321.5	323.2	325.1	326.9	328.7	330.3	331.9	333.8	335.2	338.8	338.8	340.4	342.1	343.7	345.2	346.8	348.4	+11°
+12°	315.8	317.5	318.3	321.2	323.1	325.0	326.8	328.9	330.8	332.5	334.2	336.0	337.7	339.8	341.4	343.2	345.2	346.9	348.6	350.3	352.0	+12°
+13°	318.7	318.7	320.7	322.7	324.7	326.7	328.8	330.8	332.9	335.7	338.8	338.4	340.3	342.3	344.3	346.4	248.4	350.3	352.2	354.0	355.9	+13°
+14°	317.8	319.9	322.1	324.2	326.4	328.6	330.7	333.0	335.1	337.1	339.1	341.1	343.1	345.3	347.4	349.6	351.8	353.8	355.9	357.8	360.0	+14°
+15°	318.9	321.2	323.5	325.3	328.1	330.4	332.7	335.1	337.4	338.5	341.7	343.8	346.0	348.3	380.8	353.0	355.3	357.5	359.7	382.0	364.2	+15°
+16°	320.0	322.5	325.0	327.4	329.9	332.4	334.8	337.3	239.8	342.1	344.4	348.7	349.0	351.5	354.0	358.5	358.0	381.4	363.8	386.1	368.5	+16°
+17°	321.2	323.8	328.5	329.2	331.8	334.4	337.0	339.8	342.2	344.7	347.2	349.7	352.2	354.8	357.5	360.1	362.8	365.4	367.9	370.5	373.1	+17°
+18°	322.3	325.1	328.0	330.8	333.7	336.5	339.2	342.0	344.8	347.5	350.2	352.8	355.5	358.3	381.1	363.9	388.7	369.5	372.2	375.0	377.8	+18°
+19°	323.4	328.5	329.8	332.6	335.7	338.6	341.5	344.5	347.4	350.3	353.1	356.0	358.9	361.9	364.8	367.8	370.5	373.8	378.8	378.9	382.9	+19°
+20°	324.5	327.8	331.1	334.5	337.8	340.0	343.8	347.0	350.1	353.2	358.3	359.4	362.5	365.6	368.8	371.9	375.1	378.3	381.8	384.8	388.1	+20°
Temp. in °C	0%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	60%	65%	90%	95%	100%	Temp. in °C

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

P = 1000mb

w	t_d		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	273.1	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	+16.5	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		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	348.8	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 / t	328 / +23.2	323 / +18.7	318 / +14.2	313 / +9.6	308 / +5.1	303 / +0.6	298 / −3.9	293 / −8.4	288 / −12.9	283 / −17.4	278 / −22.0	273 / −26.5	268 / −31.0	263 / −35.5	258 / −40.0
0.3	−34.8	θe		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	θe		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	243.9
0.5	−29.3	θe		329.8	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	θe		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	θe		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	θe		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	θe		341.0	335.8	330.6	325.4	320.2	315.1	309.9	304.7	299.5	294.3	289.1	283.9	278.7	273.5	268.3
		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	θe		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	θe		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	θe		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	θe		365.5	359.9	354.3												
		T_c		281.9	282.6	283.5												
14.0	+13.3	θe		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; θe, 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 / t	338 / +4.2	333 / +0.1	328 / −4.0	323 / −8.1	318 / −12.2	313 / −16.3	308 / −20.4	303 / −24.5	298 / −28.6	293 / −32.7	288 / −36.8	283 / −40.9	278 / −45.0
0.1	−48.9	θe		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	θe		338.7	333.4	328.7	323.3	318.6	313.3	308.6	303.3	298.6	293.6	288.6	283.3	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	228.1
0.3	−38.2	θe		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	234.1	232.8
0.4	−35.3	θe		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	237.8	237.6
0.5	−32.9	θe		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	θe		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	θe		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	θe		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	θe		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	θe		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	θe		364.8	359.5	354.1	348.7	343.3	338.0	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	θe		371.4	366.0	360.5	355.1	349.6	344.1	338.6	333.2	327.7	322.2	316.7	311.3	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; θe, 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	227.5
0.3	-43.4	θ_e	349.2	344.2	339.2	334.2	329.2	324.1	319.2	314.1	308.1	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	320.4	319.4	314.4	308.4	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, 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	-36.3			
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 θ_e-θ		Dewpoint Temperature (t_c) 1000mb Surface	850mb Surface	700mb Surface	500mb Surface	350mb Surface	Errors	
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						