

TFILE did OPEN on window 0
 UALIST 74494 00 UNIT=X X FT X

SOUNDING # 1 IDN= 74494 DAY=1999198 TIME= 0 VALID LEVELS= 57

 Idn Id Station Name St Co Lat Lon Elev
 744940 KCHH CHATHAM MA US 41:40N 069:58W 16

Level Type	Pressure [MB]	Temp [C]	Dew Point [C]	Dir [deg]	Speed [KTS]	Height [FT]	Theta [K]	Mix [g/kg]
SFC	1016.0	22.0	18.0	245.0	8.0	52.5	293.8	12.900
MAND	1000.0	25.8	17.8	250.0	15.9	509.3	299.0	12.943
SIGT	994.0	27.0	15.0	250.0	18.8	683.9	300.7	10.858
SIGW	983.3	27.5	12.9	250.0	23.9	997.4	302.1	9.537
SIGT	982.0	27.6	12.6	250.4	23.7	1036.9	302.3	9.381
SIGW	949.9	25.7	12.9	260.0	18.8	1998.0	303.3	9.921
MAND	925.0	24.2	13.2	265.0	15.9	2766.3	304.1	10.374
SIGW	917.5	23.6	12.8	270.0	15.9	2998.7	304.2	10.209
SIGW	885.8	21.2	11.3	280.0	14.0	3999.3	304.8	9.518
MAND	850.0	18.4	9.4	265.0	9.9	5173.7	305.4	8.752
SIGW	824.9	16.6	8.1	255.0	8.9	6000.7	306.1	8.242
SIGW	795.6	14.4	6.5	275.0	10.9	7001.3	307.0	7.655
SIGW	767.3	12.2	4.9	285.0	12.8	8002.0	307.8	7.100
SIGW	740.1	10.0	3.3	295.0	15.9	8999.3	308.6	6.577
SIGT	712.0	7.6	1.6	305.7	14.5	10069.1	309.4	6.050
SIGT	707.0	8.4	-9.6	307.6	14.2	10260.0	310.9	2.610
SIGT	685.0	7.0	-20.0	316.1	13.1	11114.5	312.2	1.140
SIGW	662.2	5.4	-21.8	325.0	11.8	12001.3	313.4	1.009
SIGW	637.5	3.6	-23.8	330.0	10.9	13002.0	314.8	.876
SIGW	613.6	1.9	-25.8	320.0	10.9	14002.6	316.2	.759
SIGW	568.5	-1.7	-29.9	335.0	14.0	16003.9	319.0	.563
SIGW	547.3	-3.5	-31.9	335.0	14.0	17001.3	320.4	.483
SIGW	526.8	-5.3	-33.9	320.0	18.8	18002.0	321.8	.413
MAND	500.0	-7.7	-36.7	320.0	19.8	19374.1	323.7	.330
SIGW	487.8	-9.3	-37.4	325.0	18.8	20003.3	324.0	.316
SIGT	486.0	-9.5	-37.5	325.5	19.0	20096.5	324.1	.313
SIGT	424.0	-15.9	-39.9	342.8	26.0	23514.1	328.8	.280
MAND	400.0	-19.7	-40.7	350.0	28.9	24944.7	329.4	.273
SIGT	374.0	-23.9	-38.9	357.9	32.0	26569.0	330.2	.353
SIGW	367.2	-24.7	-36.1	360.0	32.8	27004.6	330.9	.479
SIGT	355.0	-26.1	-30.8	1.3	31.8	27813.2	332.2	.828
SIGT	334.0	-29.5	-35.5	3.7	29.9	29252.0	333.4	.558
SIGW	323.4	-31.0	-40.5	5.0	28.9	30006.6	334.4	.344
SIGT	316.0	-32.1	-44.1	5.0	29.2	30543.0	335.1	.240
MAND	300.0	-35.1	-46.1	5.0	29.9	31739.7	335.9	.203
SIGT	294.0	-36.1	-49.1	8.1	28.7	32201.1	336.4	.150
SIGW	271.4	-40.8	-47.2	20.0	23.9	34005.9	337.4	.198
SIGT	270.0	-41.1	-47.1	21.2	23.9	34121.4	337.5	.202
SIGW	259.4	-43.2	-49.2	30.0	23.9	35006.6	338.3	.169
MAND	250.0	-45.1	-51.1	30.0	24.9	35823.6	339.0	.147
MAND	200.0	-56.9	-61.7	40.0	46.8	40589.4	342.7	.060
SIGW	177.7	-62.5	-67.5	45.0	49.9	43008.5	345.3	-----
SIGT	174.0	-63.5	-68.5	43.7	46.6	43440.3	345.7	-----
SIGT	161.0	-64.5	-70.5	39.2	34.8	45001.6	351.8	-----
SIGT	156.0	-61.7	-68.7	37.3	29.9	45638.7	359.7	-----
MAND	150.0	-62.9	-70.9	35.0	23.9	46433.6	361.7	-----
SIGW	145.7	-64.1	-72.3	30.0	17.9	47011.2	362.7	-----
TRO1	132.0	-68.1	-77.1	5.0	15.0	48985.5	365.9	-----
SIGW	125.4	-65.1	-75.3	360.0	15.0	50009.8	376.7	-----
SIGT	121.0	-63.1	-74.1	5.4	14.8	50721.6	384.3	-----

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MAND	100.0	-61.3	-78.3	35.0	14.0	54587.2	409.3	-----
SIGT	93.2	-60.7	-78.7	-----	-----	56023.4	418.8	-----
SIGT	72.8	-63.3	-81.5	-----	-----	61037.8	444.0	-----
SIGT	64.3	-59.5	-83.5	-----	-----	63565.2	468.4	-----
SIGT	27.1	-51.3	-78.3	-----	-----	81651.8	622.7	-----
SIGT	22.3	-44.3	-73.3	-----	-----	85875.0	679.1	-----
SIGT	19.0	-42.5	-72.5	-----	-----	89412.1	716.6	-----

Parcel Definition for 100 mb Boundary Layer: 0000 UTC 17 Jul 1999198

Dewpoint Temperature (TD)	=	14.0 C
Potential Temperature (Th)	=	301.8 K
Equivalent Potential Temperature (ThE)	=	330.0 K
Mixing Ratio (MIX)	=	10.5 g/kg

Stability Indices and Levels:

Lifted Condensation Level (LCL)	=	814 mb
Temperature at LCL (TLCL)	=	11.4 C
Level of Free Convection (LFC)	=	-----
Equilibrium Level (EL)	=	-----
Convective Temperature (CVT)	=	-----
Forecast Maximum Temperature (FMAX)	=	34.5 C
K Index (KI)	=	14.6
Lifted Index (LI)	=	3.3
Severe WEATHER Threat Index (SwI)	=	152.5
Showalter Index (ShI)	=	3.5
Total Totals Index (TTI)	=	43.2
Precipitable Water (PW)	=	28.9 mm

Energy Analysis:

Helicity (HELI)	=	61 m**2/s**2
Convective Available Potential Energy (CAPE)	=	-----
Convective Inhibition (CIN)	=	-----
Theta-E for Forecast Maximum Temperature	=	335 K
CAPE for Forecast Maximum Temperature	=	-----
Maximum Theta-E at or below 300 mb	=	336 K
Pressure Level of Maximum Theta-E	=	316 mb
CAPE for Maximum Theta-E	=	-----

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UALIST: Done

TFILE