**42724 VEAT Agartala Observations at 00Z 11 Jan 1985**

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PRES HGHT TEMP DWPT RELH MIXR DRCT SKNT THTA THTE THTV

hPa m C C % g/kg deg knot K K K

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1013.0 16 8.0 7.6 97 6.50 360 0 280.1 298.0 281.2

1000.0 124 10.4 6.0 74 5.90 15 6 283.6 300.1 284.6

956.0 503 14.0 3.0 47 4.99 354 9 290.9 305.5 291.7

850.0 1489 9.6 -8.4 27 2.40 300 17 296.2 303.7 296.6

831.0 1676 9.0 -10.0 25 2.16 297 21 297.5 304.3 297.9

768.0 2325 5.0 -4.0 52 3.72 284 36 299.9 311.4 300.6

700.0 3079 3.0 -14.0 27 1.86 270 54 305.8 311.9 306.1

685.0 3255 3.0 -16.0 23 1.61 270 54 307.7 313.1 308.0

648.0 3702 0.0 -19.0 22 1.32 269 53 309.2 313.7 309.4

600.0 4314 -4.1 -23.1 21 1.00 268 53 311.3 314.8 311.5

590.0 4447 -4.9 -23.9 21 0.95 267 52 311.9 315.2 312.1

500.0 5730 -12.7 265 51 317.5 317.5

457.0 6410 -16.7 265 56 320.8 320.8

410.0 7216 -20.3 265 62 326.2 326.2

400.0 7400 -21.1 265 60 327.5 327.5

366.0 8052 -23.7 332.4 332.4

**Station information and sounding indices**

Station identifier: VEAT

Station number: 42724

Observation time: 850111/0000

Station latitude: 23.87

Station longitude: 91.25

Station elevation: 16.0

Showalter index: 13.78

Lifted index: 14.92

LIFT computed using virtual temperature: 14.80

SWEAT index: 84.98

K index: -3.10

Cross totals index: 4.30

Vertical totals index: 22.30

Totals totals index: 26.60

Convective Available Potential Energy: 0.00

CAPE using virtual temperature: 0.00

Convective Inhibition: 0.00

CINS using virtual temperature: 0.00

Bulk Richardson Number: 0.00

Bulk Richardson Number using CAPV: 0.00

Temp [K] of the Lifted Condensation Level: 276.68

Pres [hPa] of the Lifted Condensation Level: 889.79

Mean mixed layer potential temperature: 286.11

Mean mixed layer mixing ratio: 5.60

1000 hPa to 500 hPa thickness: 5606.00

Precipitable water [mm] for entire sounding: 13.01

**42724 VEAT Agartala Observations at 00Z 22 Jan 2009**

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PRES HGHT TEMP DWPT RELH MIXR DRCT SKNT THTA THTE THTV

hPa m C C % g/kg deg knot K K K

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1012.0 16 12.2 11.6 96 8.54 0 0 284.4 308.1 285.8

1010.0 32 14.6 14.5 99 10.38 1 0 286.9 315.9 288.7

1000.0 114 15.2 15.0 99 10.83 5 1 288.4 318.8 290.2

976.0 320 16.3 14.6 89 10.80 5 2 291.5 322.2 293.4

939.0 648 18.1 13.9 77 10.75 60 1 296.5 327.8 298.5

933.0 703 18.4 13.8 75 10.74 90 1 297.4 328.8 299.3

925.0 776 16.2 11.8 75 9.48 130 1 295.9 323.5 297.6

922.0 803 15.8 10.9 72 8.93 135 1 295.8 321.8 297.3

911.0 905 14.4 7.4 63 7.14 125 0 295.3 316.3 296.6

906.0 951 14.2 7.2 63 7.06 120 0 295.5 316.3 296.8

889.0 1110 13.4 6.4 63 6.82 15 2 296.3 316.5 297.6

885.0 1148 13.2 6.2 63 6.76 12 2 296.5 316.5 297.7

881.0 1186 11.2 4.2 62 5.90 10 3 294.8 312.3 295.9

851.0 1475 13.0 -8.0 22 2.47 351 5 299.6 307.4 300.1

850.0 1485 12.6 -7.4 24 2.59 350 5 299.3 307.5 299.8

799.0 2003 13.0 -4.0 30 3.58 334 10 305.1 316.4 305.8

777.0 2236 10.8 -10.2 22 2.28 327 12 305.2 312.6 305.6

756.0 2465 15.4 -7.6 20 2.87 320 15 312.6 322.0 313.1

745.0 2589 16.2 -7.8 19 2.87 316 16 314.7 324.3 315.3

710.0 2996 15.6 -10.4 16 2.45 304 20 318.4 326.8 318.9

700.0 3116 14.8 -11.2 16 2.33 300 21 318.8 326.8 319.3

657.0 3648 12.6 -15.4 13 1.77 296 28 322.2 328.4 322.5

633.0 3958 11.2 -14.8 15 1.93 293 32 324.0 330.8 324.4

615.0 4197 8.8 -12.2 21 2.45 292 35 324.0 332.5 324.4

607.0 4304 7.6 -15.4 18 1.91 291 37 323.8 330.5 324.2

600.0 4399 6.0 -15.0 21 2.00 290 38 323.0 330.0 323.4

576.0 4731 2.6 -8.4 44 3.54 290 35 322.8 334.8 323.5

559.0 4971 0.0 -20.0 21 1.41 290 32 322.5 327.5 322.8

547.0 5144 -1.5 -20.5 22 1.38 290 30 322.8 327.7 323.0

521.0 5529 -3.7 -22.7 21 1.19 290 26 324.6 328.9 324.9

519.0 5559 -4.1 -22.9 22 1.18 290 26 324.5 328.7 324.7

505.0 5773 -7.1 -24.1 24 1.09 323.4 327.3 323.6

500.0 5850 -7.9 -23.9 26 1.12 323.3 327.4 323.6

479.0 6183 -9.5 -19.5 44 1.71 325.4 331.4 325.7

459.0 6512 -11.9 -29.9 21 0.70 326.4 329.0 326.5

449.0 6680 -13.3 -24.3 39 1.20 326.6 331.0 326.9

405.0 7458 -19.3 -34.3 25 0.52 328.6 330.6 328.8

400.0 7550 -19.9 -37.9 19 0.37 329.0 330.5 329.1

386.0 7813 -22.7 -40.7 18 0.28 328.7 329.9 328.8

377.0 7985 -24.9 -40.9 21 0.29 328.1 329.2 328.1

366.0 8200 -26.3 -42.3 21 0.25 329.0 330.0 329.0

360.0 8319 -27.7 -44.7 18 0.20 328.6 329.5 328.7

344.0 8644 -30.5 -46.5 19 0.17 329.1 329.9 329.2

338.0 8769 -31.9 -47.9 19 0.15 328.9 329.5 328.9

333.0 8874 -33.3 -48.3 21 0.14 328.4 329.0 328.4

318.0 9196 -35.9 -50.9 20 0.11 329.1 329.6 329.1

300.0 9600 -36.7 -51.7 20 0.11 333.5 334.0 333.6

250.0 10830 -46.5 -60.5 19 0.04 336.8 337.0 336.8

240.0 11101 -49.5 -62.5 20 0.04 336.2 336.4 336.2

200.0 12280 -58.9 339.3 339.3

161.0 13598 -70.7 341.1 341.1

156.0 13783 -72.9 340.5 340.5

150.0 14010 -76.5 338.1 338.1

129.0 14824 -76.5 353.0 353.0

**42724 VEAT Agartala Observations at 12Z 12 Jan 1985**

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PRES HGHT TEMP DWPT RELH MIXR DRCT SKNT THTA THTE THTV

hPa m C C % g/kg deg knot K K K

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1013.0 16 23.8 19.5 77 14.29 360 0 295.9 337.1 298.4

892.0 1116 17.4 3.4 39 5.51 300.2 316.9 301.2

795.0 2083 9.0 -14.0 18 1.64 301.3 306.6 301.6

646.0 3776 1.6 311.3 311.3

624.0 4054 0.8 313.5 313.5

600.0 4367 -1.9 313.9 313.9

573.0 4731 -3.7 315.9 315.9

**Station information and sounding indices**

Station identifier: VEAT

Station number: 42724

Observation time: 850112/1200

Station latitude: 23.87

Station longitude: 91.25

Station elevation: 16.0

Lifted index: 3.12

LIFT computed using virtual temperature: 2.59

Convective Available Potential Energy: 14.26

CAPE using virtual temperature: 106.76

Convective Inhibition: -85.51

CINS using virtual temperature: -44.83

Equilibrum Level: 704.68

Level of Free Convection: 811.71

LFCT using virtual temperature: 841.45

Temp [K] of the Lifted Condensation Level: 287.49

Pres [hPa] of the Lifted Condensation Level: 894.33

Mean mixed layer potential temperature: 296.85

Mean mixed layer mixing ratio: 11.85

**Precipitable water [mm] for entire sounding: 15.75**

**42724 VEAT Agartala Observations at 00Z 12 Jan 1985**

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PRES HGHT TEMP DWPT RELH MIXR DRCT SKNT THTA THTE THTV

hPa m C C % g/kg deg knot K K K

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1012.0 16 9.4 9.0 97 7.16 360 0 281.6 301.4 282.8

1000.0 117 10.2 8.2 87 6.86 80 0 283.4 302.5 284.5

922.0 801 16.4 4.4 45 5.72 3 154 296.4 313.4 297.4

850.0 1488 12.2 -2.8 35 3.68 285 309 298.9 310.2 299.6

819.0 1760 10.0 -5.0 34 3.23 280 255 299.8 309.8 300.4

750.0 2398 8.0 -13.0 21 1.88 269 127 305.2 311.4 305.6

700.0 2895 6.4 -14.6 21 1.77 260 27 309.5 315.5 309.9

683.0 3112 6.0 -15.0 21 1.76 260 29 311.3 317.2 311.6

642.0 3655 3.4 -17.6 20 1.50 260 33 313.9 319.0 314.2

600.0 4241 0.2 260 38 316.3 316.3

597.0 4284 0.0 260 38 316.5 316.5

551.0 4971 -3.3 260 44 319.9 319.9

500.0 5790 -7.9 260 51 323.3 323.3

462.0 6399 -11.7 263 59 326.0 326.0

443.0 6719 -13.0 265 64 328.3 328.3

414.0 7233 -15.1 332.0 332.0

**Station information and sounding indices**

Station identifier: VEAT

Station number: 42724

Observation time: 850112/0000

Station latitude: 23.87

Station longitude: 91.25

Station elevation: 16.0

Showalter index: 14.32

Lifted index: 17.80

LIFT computed using virtual temperature: 17.66

SWEAT index: 668.98

K index: -3.70

Cross totals index: 5.10

Vertical totals index: 20.10

Totals totals index: 25.20

Convective Available Potential Energy: 0.00

CAPE using virtual temperature: 0.00

Convective Inhibition: 0.00

CINS using virtual temperature: 0.00

Bulk Richardson Number: 0.00

Bulk Richardson Number using CAPV: 0.00

Temp [K] of the Lifted Condensation Level: 279.63

Pres [hPa] of the Lifted Condensation Level: 922.94

Mean mixed layer potential temperature: 286.16

Mean mixed layer mixing ratio: 6.62

1000 hPa to 500 hPa thickness: 5673.00

Precipitable water [mm] for entire sounding: 14.12