

# 72712 CAR Caribou Observations at 00Z 24 Jul 2015

| PRES<br>hPa | HGHT<br>m | TEMP<br>C | DWPT<br>C | RELH<br>% | MIXR<br>g/kg | DRCT<br>deg | SKNT<br>knot | THTA<br>K | THTE<br>K | THTV<br>K |
|-------------|-----------|-----------|-----------|-----------|--------------|-------------|--------------|-----------|-----------|-----------|
| 1000.0      | 65        |           |           |           |              |             |              |           |           |           |
| 985.0       | 190       | 16.8      | 14.6      | 87        | 10.71        | 260         | 3            | 291.2     | 321.7     | 293.1     |
| 977.0       | 260       | 17.4      | 12.4      | 72        | 9.34         | 270         | 4            | 292.5     | 319.3     | 294.1     |
| 956.0       | 447       | 16.8      | 10.8      | 68        | 8.57         | 297         | 8            | 293.7     | 318.5     | 295.2     |
| 938.0       | 610       | 15.4      | 10.4      | 72        | 8.54         | 320         | 11           | 293.9     | 318.6     | 295.4     |
| 925.0       | 729       | 14.4      | 10.2      | 76        | 8.51         | 325         | 13           | 294.0     | 318.7     | 295.5     |
| 904.9       | 914       | 13.0      | 9.1       | 77        | 8.06         | 320         | 13           | 294.4     | 317.9     | 295.8     |
| 900.0       | 960       | 12.6      | 8.8       | 78        | 7.95         | 320         | 13           | 294.5     | 317.7     | 295.9     |
| 882.0       | 1130      | 11.6      | 6.6       | 71        | 6.98         | 320         | 11           | 295.1     | 315.6     | 296.4     |
| 872.6       | 1219      | 10.8      | 6.4       | 74        | 6.94         | 320         | 10           | 295.3     | 315.7     | 296.5     |
| 850.0       | 1438      | 9.0       | 5.8       | 80        | 6.85         | 320         | 14           | 295.6     | 315.7     | 296.8     |
| 842.0       | 1516      | 8.4       | 6.2       | 86        | 7.11         | 317         | 14           | 295.7     | 316.6     | 297.0     |
| 810.4       | 1829      | 6.3       | 4.8       | 90        | 6.69         | 305         | 16           | 296.8     | 316.6     | 298.0     |
| 780.8       | 2134      | 4.3       | 3.4       | 94        | 6.31         | 300         | 17           | 297.8     | 316.6     | 298.9     |
| 752.3       | 2438      | 2.3       | 2.1       | 98        | 5.94         | 305         | 15           | 298.8     | 316.6     | 299.9     |
| 751.0       | 2452      | 2.2       | 2.0       | 99        | 5.92         | 305         | 15           | 298.8     | 316.6     | 299.9     |
| 724.3       | 2743      | 0.3       | -0.1      | 97        | 5.27         | 300         | 19           | 299.8     | 315.8     | 300.8     |
| 700.0       | 3017      | -1.5      | -2.1      | 96        | 4.71         | 295         | 22           | 300.8     | 315.2     | 301.6     |
| 697.3       | 3048      | -1.7      | -2.3      | 96        | 4.65         | 295         | 22           | 300.9     | 315.1     | 301.7     |
| 681.0       | 3236      | -3.1      | -3.7      | 96        | 4.29         | 292         | 20           | 301.4     | 314.6     | 302.2     |
| 645.6       | 3658      | -4.7      | -8.3      | 76        | 3.18         | 285         | 15           | 304.2     | 314.3     | 304.8     |
| 621.2       | 3962      | -5.8      | -11.6     | 64        | 2.55         | 305         | 23           | 306.3     | 314.5     | 306.8     |
| 619.0       | 3990      | -5.9      | -11.9     | 63        | 2.49         | 304         | 23           | 306.5     | 314.6     | 307.0     |
| 597.4       | 4267      | -7.9      | -14.6     | 59        | 2.08         | 295         | 21           | 307.3     | 314.1     | 307.7     |
| 587.0       | 4404      | -8.9      | -15.9     | 57        | 1.90         | 297         | 20           | 307.7     | 313.9     | 308.1     |
| 561.0       | 4753      | -12.1     | -16.4     | 70        | 1.90         | 303         | 18           | 307.9     | 314.2     | 308.3     |
| 552.0       | 4877      | -12.1     | -17.9     | 62        | 1.70         | 305         | 17           | 309.4     | 315.0     | 309.7     |
| 551.0       | 4891      | -12.1     | -18.1     | 61        | 1.68         | 305         | 17           | 309.5     | 315.1     | 309.8     |
| 547.0       | 4947      | -12.3     | -16.6     | 70        | 1.92         | 304         | 17           | 309.9     | 316.3     | 310.3     |
| 544.0       | 4989      | -12.1     | -18.1     | 61        | 1.70         | 304         | 17           | 310.6     | 316.4     | 311.0     |
| 540.0       | 5046      | -12.5     | -20.5     | 51        | 1.39         | 303         | 17           | 310.8     | 315.6     | 311.1     |
| 511.0       | 5466      | -15.1     | -24.1     | 46        | 1.07         | 297         | 18           | 312.6     | 316.4     | 312.8     |
| 500.0       | 5630      | -16.3     | -26.3     | 42        | 0.90         | 295         | 18           | 313.1     | 316.3     | 313.3     |
| 485.0       | 5857      | -17.9     | -26.9     | 45        | 0.88         | 295         | 20           | 313.9     | 317.0     | 314.0     |
| 470.0       | 6090      | -19.7     | -27.7     | 49        | 0.84         | 295         | 22           | 314.5     | 317.4     | 314.6     |
| 469.6       | 6096      | -19.7     | -27.8     | 49        | 0.84         | 295         | 22           | 314.5     | 317.5     | 314.6     |
| 450.4       | 6401      | -22.0     | -31.3     | 43        | 0.63         | 300         | 23           | 315.4     | 317.7     | 315.5     |
| 424.0       | 6842      | -25.3     | -36.3     | 35        | 0.41         | 286         | 22           | 316.7     | 318.2     | 316.8     |
| 419.0       | 6928      | -26.1     | -33.1     | 52        | 0.56         | 283         | 22           | 316.8     | 318.8     | 316.9     |
| 414.2       | 7010      | -26.6     | -34.3     | 48        | 0.51         | 280         | 22           | 317.1     | 319.0     | 317.2     |
| 405.0       | 7171      | -27.7     | -36.7     | 42        | 0.41         | 280         | 22           | 317.8     | 319.3     | 317.9     |
| 400.0       | 7260      | -28.5     | -36.5     | 46        | 0.42         | 280         | 22           | 317.9     | 319.4     | 317.9     |
| 387.0       | 7496      | -30.7     | -38.7     | 45        | 0.35         | 280         | 19           | 318.0     | 319.3     | 318.1     |
| 380.3       | 7620      | -31.5     | -42.0     | 35        | 0.25         | 280         | 18           | 318.5     | 319.4     | 318.5     |
| 379.0       | 7644      | -31.7     | -42.7     | 33        | 0.23         | 280         | 18           | 318.6     | 319.5     | 318.6     |
| 359.0       | 8025      | -34.9     | -45.9     | 32        | 0.18         | 279         | 20           | 319.3     | 319.9     | 319.3     |
| 349.0       | 8222      | -36.7     | -43.7     | 48        | 0.23         | 278         | 20           | 319.4     | 320.3     | 319.5     |
| 314.0       | 8944      | -42.9     | -52.9     | 32        | 0.09         | 276         | 23           | 320.6     | 320.9     | 320.6     |
| 304.8       | 9144      | -44.7     | -54.1     | 34        | 0.08         | 275         | 24           | 320.8     | 321.1     | 320.8     |
| 300.0       | 9250      | -45.7     | -54.7     | 35        | 0.08         | 275         | 24           | 320.8     | 321.1     | 320.9     |
| 281.0       | 9682      | -49.5     | -56.5     | 44        | 0.07         | 270         | 25           | 321.4     | 321.7     | 321.4     |
| 265.2       | 10058     | -52.5     | -58.5     | 48        | 0.05         | 265         | 26           | 322.5     | 322.7     | 322.5     |
| 265.0       | 10063     | -52.5     | -58.5     | 48        | 0.05         | 265         | 26           | 322.5     | 322.7     | 322.5     |

|       |       |       |       |    |      |     |    |       |       |       |
|-------|-------|-------|-------|----|------|-----|----|-------|-------|-------|
| 259.0 | 10211 | -52.5 | -60.5 | 37 | 0.04 | 269 | 24 | 324.6 | 324.8 | 324.6 |
| 253.0 | 10363 | -51.3 | -62.3 | 26 | 0.03 | 273 | 21 | 328.6 | 328.7 | 328.6 |
| 250.0 | 10440 | -51.7 | -64.7 | 20 | 0.03 | 275 | 20 | 329.1 | 329.2 | 329.1 |
| 248.0 | 10492 | -50.1 | -65.1 | 15 | 0.02 | 275 | 20 | 332.2 | 332.3 | 332.2 |
| 231.0 | 10961 | -46.7 | -74.7 | 3  | 0.01 | 279 | 21 | 344.2 | 344.2 | 344.2 |
| 223.0 | 11195 | -47.5 | -76.5 | 2  | 0.01 | 280 | 22 | 346.4 | 346.5 | 346.4 |
| 215.0 | 11437 | -46.9 | -77.9 | 2  | 0.00 | 282 | 23 | 351.0 | 351.0 | 351.0 |
| 200.0 | 11920 | -44.1 | -78.1 | 1  | 0.00 | 285 | 24 | 362.8 | 362.8 | 362.8 |
| 196.0 | 12056 | -43.3 | -78.3 | 1  | 0.00 | 284 | 24 | 366.1 | 366.2 | 366.1 |
| 181.0 | 12589 | -45.7 | -80.7 | 1  | 0.00 | 282 | 23 | 370.7 | 370.7 | 370.7 |
| 165.0 | 13207 | -45.5 | -80.5 | 1  | 0.00 | 278 | 23 | 380.9 | 380.9 | 380.9 |
| 150.0 | 13840 | -47.3 | -81.3 | 1  | 0.00 | 275 | 22 | 388.4 | 388.4 | 388.4 |
| 144.0 | 14110 | -46.7 | -80.7 | 1  | 0.00 | 277 | 20 | 393.9 | 394.0 | 393.9 |
| 130.0 | 14783 | -49.1 | -82.1 | 1  | 0.00 | 282 | 15 | 401.3 | 401.4 | 401.3 |
| 125.0 | 15040 | -48.9 | -82.9 | 1  | 0.00 | 284 | 13 | 406.2 | 406.2 | 406.2 |
| 121.2 | 15240 | -49.4 | -82.8 | 1  | 0.00 | 285 | 11 | 408.9 | 408.9 | 408.9 |
| 119.0 | 15362 | -49.7 | -82.7 | 1  | 0.00 | 287 | 11 | 410.5 | 410.5 | 410.5 |
| 115.0 | 15586 | -48.5 | -82.5 | 1  | 0.00 | 292 | 10 | 416.8 | 416.8 | 416.8 |
| 110.0 | 15877 | -49.5 | -82.5 | 1  | 0.00 | 298 | 9  | 420.2 | 420.2 | 420.2 |
| 108.0 | 15997 | -49.7 | -82.7 | 1  | 0.00 | 300 | 9  | 422.0 | 422.1 | 422.0 |
| 107.0 | 16057 | -48.9 | -82.9 | 1  | 0.00 | 301 | 8  | 424.7 | 424.7 | 424.7 |
| 100.0 | 16500 | -49.7 | -82.7 | 1  | 0.00 | 310 | 7  | 431.4 | 431.4 | 431.4 |

## Station information and sounding indices

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Station identifier: CAR
Station number: 72712
Observation time: 150724/0000
Station latitude: 46.86
Station longitude: -68.01
Station elevation: 190.0
Showalter index: 2.60
Lifted index: 0.75
LIFT computed using virtual temperature: 0.58
SWEAT index: 115.62
K index: 30.50
Cross totals index: 22.10
Vertical totals index: 25.30
Totals totals index: 47.40
Convective Available Potential Energy: 81.10
CAPE using virtual temperature: 99.52
Convective Inhibition: -31.86
CINS using virtual temperature: -24.95
Equilibrium Level: 546.77
Equilibrium Level using virtual temperature: 546.06
Level of Free Convection: 815.06
LFCT using virtual temperature: 825.79
Bulk Richardson Number: 8.23
Bulk Richardson Number using CAPV: 10.10
Temp [K] of the Lifted Condensation Level: 283.36
Pres [hPa] of the Lifted Condensation Level: 886.76
Mean mixed layer potential temperature: 293.27
Mean mixed layer mixing ratio: 8.91
1000 hPa to 500 hPa thickness: 5565.00
Precipitable water [mm] for entire sounding: 26.51

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Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)

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