

# 70200 PAOM Nome 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 |
|-------------|-----------|-----------|-----------|-----------|--------------|-------------|--------------|-----------|-----------|-----------|
| 1008.0      | 7         | 13.8      | 10.5      | 80        | 7.96         | 250         | 21           | 286.3     | 308.7     | 287.7     |
| 1000.0      | 71        | 11.8      | 7.7       | 76        | 6.63         | 260         | 20           | 284.9     | 303.6     | 286.1     |
| 999.0       | 79        | 11.6      | 7.4       | 75        | 6.50         | 261         | 20           | 284.8     | 303.1     | 285.9     |
| 995.0       | 113       | 11.6      | 7.6       | 76        | 6.62         | 266         | 18           | 285.2     | 303.8     | 286.3     |
| 977.0       | 266       | 13.8      | 8.8       | 72        | 7.32         | 289         | 12           | 288.9     | 309.8     | 290.1     |
| 972.5       | 305       | 13.8      | 8.8       | 72        | 7.38         | 295         | 11           | 289.3     | 310.4     | 290.6     |
| 959.0       | 423       | 14.0      | 9.0       | 72        | 7.56         | 336         | 8            | 290.6     | 312.3     | 291.9     |
| 940.0       | 592       | 12.6      | 8.2       | 75        | 7.31         | 34          | 3            | 290.9     | 311.9     | 292.1     |
| 938.0       | 610       | 12.6      | 7.9       | 73        | 7.19         | 40          | 2            | 291.0     | 311.7     | 292.2     |
| 925.0       | 727       | 12.2      | 6.2       | 67        | 6.47         | 55          | 3            | 291.8     | 310.6     | 292.9     |
| 904.6       | 914       | 11.3      | 4.5       | 63        | 5.86         | 50          | 4            | 292.7     | 309.8     | 293.7     |
| 899.0       | 966       | 11.0      | 4.0       | 62        | 5.70         | 53          | 4            | 292.9     | 309.7     | 293.9     |
| 872.0       | 1219      | 9.2       | 3.2       | 67        | 5.57         | 70          | 5            | 293.6     | 310.0     | 294.6     |
| 850.0       | 1431      | 7.6       | 2.6       | 71        | 5.46         | 125         | 5            | 294.1     | 310.2     | 295.1     |
| 845.0       | 1480      | 7.4       | 2.4       | 71        | 5.41         | 126         | 5            | 294.4     | 310.4     | 295.3     |
| 839.0       | 1538      | 7.2       | 1.2       | 66        | 5.00         | 126         | 6            | 294.8     | 309.6     | 295.7     |
| 809.6       | 1829      | 4.9       | 0.5       | 73        | 4.91         | 130         | 9            | 295.3     | 310.0     | 296.2     |
| 779.9       | 2134      | 2.5       | -0.3      | 82        | 4.83         | 125         | 7            | 295.9     | 310.4     | 296.8     |
| 772.0       | 2216      | 1.8       | -0.5      | 85        | 4.80         | 121         | 7            | 296.1     | 310.4     | 296.9     |
| 751.0       | 2438      | -0.1      | -2.8      | 82        | 4.17         | 110         | 6            | 296.3     | 308.9     | 297.1     |
| 740.0       | 2556      | -1.1      | -4.0      | 81        | 3.86         | 116         | 6            | 296.5     | 308.2     | 297.2     |
| 727.0       | 2697      | -1.7      | -6.5      | 70        | 3.25         | 123         | 7            | 297.3     | 307.3     | 297.9     |
| 723.0       | 2741      | -1.9      | -5.5      | 76        | 3.53         | 125         | 7            | 297.6     | 308.4     | 298.2     |
| 722.9       | 2743      | -1.9      | -5.5      | 76        | 3.52         | 125         | 7            | 297.6     | 308.4     | 298.2     |
| 707.0       | 2919      | -2.5      | -9.5      | 59        | 2.64         | 128         | 6            | 298.8     | 307.1     | 299.3     |
| 700.0       | 2998      | -2.7      | -8.7      | 63        | 2.84         | 130         | 6            | 299.5     | 308.4     | 300.0     |
| 689.0       | 3124      | -3.5      | -10.5     | 58        | 2.51         | 124         | 7            | 299.9     | 307.8     | 300.4     |
| 651.0       | 3570      | -7.3      | -11.7     | 71        | 2.41         | 104         | 11           | 300.5     | 308.2     | 301.0     |
| 643.7       | 3658      | -7.6      | -15.8     | 52        | 1.75         | 100         | 12           | 301.1     | 306.8     | 301.5     |
| 642.0       | 3678      | -7.7      | -16.7     | 48        | 1.62         | 101         | 12           | 301.3     | 306.6     | 301.6     |
| 638.0       | 3727      | -7.9      | -13.9     | 62        | 2.06         | 103         | 11           | 301.6     | 308.2     | 302.0     |
| 630.0       | 3825      | -7.3      | -19.3     | 38        | 1.33         | 107         | 10           | 303.4     | 307.8     | 303.6     |
| 624.0       | 3900      | -7.9      | -18.9     | 41        | 1.38         | 110         | 9            | 303.5     | 308.1     | 303.8     |
| 620.0       | 3950      | -8.3      | -25.3     | 24        | 0.79         | 112         | 8            | 303.6     | 306.3     | 303.8     |
| 614.0       | 4025      | -8.7      | -27.7     | 20        | 0.64         | 115         | 7            | 304.0     | 306.2     | 304.1     |
| 606.0       | 4127      | -9.1      | -18.1     | 48        | 1.53         | 119         | 6            | 304.7     | 309.7     | 305.0     |
| 597.0       | 4243      | -9.7      | -18.7     | 48        | 1.47         | 124         | 4            | 305.3     | 310.2     | 305.6     |
| 595.1       | 4267      | -9.8      | -19.4     | 45        | 1.39         | 125         | 4            | 305.4     | 310.0     | 305.7     |
| 591.0       | 4321      | -10.1     | -21.1     | 40        | 1.21         | 125         | 4            | 305.7     | 309.8     | 305.9     |
| 579.0       | 4479      | -11.7     | -18.7     | 56        | 1.52         | 125         | 5            | 305.6     | 310.7     | 305.9     |
| 572.0       | 4572      | -11.9     | -21.9     | 43        | 1.16         | 125         | 5            | 306.5     | 310.4     | 306.7     |
| 560.0       | 4734      | -12.9     | -20.9     | 51        | 1.30         | 125         | 6            | 307.1     | 311.5     | 307.4     |
| 552.0       | 4844      | -13.3     | -26.3     | 33        | 0.81         | 125         | 7            | 307.9     | 310.8     | 308.1     |
| 549.6       | 4877      | -13.6     | -26.6     | 33        | 0.79         | 125         | 7            | 307.9     | 310.7     | 308.1     |
| 549.0       | 4886      | -13.7     | -26.7     | 33        | 0.79         | 126         | 7            | 307.9     | 310.7     | 308.1     |
| 544.0       | 4955      | -14.3     | -23.3     | 46        | 1.08         | 130         | 7            | 308.0     | 311.7     | 308.2     |
| 541.0       | 4997      | -14.7     | -22.7     | 51        | 1.15         | 133         | 7            | 308.0     | 311.9     | 308.2     |
| 529.0       | 5167      | -15.9     | -25.9     | 42        | 0.88         | 145         | 7            | 308.6     | 311.6     | 308.8     |
| 508.0       | 5471      | -18.1     | -27.1     | 45        | 0.82         | 167         | 8            | 309.5     | 312.4     | 309.7     |
| 500.0       | 5590      | -18.9     | -29.9     | 37        | 0.64         | 175         | 8            | 309.9     | 312.2     | 310.1     |
| 496.0       | 5650      | -19.1     | -30.1     | 37        | 0.64         | 172         | 9            | 310.4     | 312.7     | 310.5     |
| 486.6       | 5791      | -20.2     | -30.9     | 38        | 0.60         | 165         | 11           | 310.8     | 312.9     | 310.9     |
| 466.9       | 6096      | -22.6     | -32.6     | 40        | 0.53         | 180         | 11           | 311.5     | 313.4     | 311.6     |

|       |       |       |       |    |      |     |    |       |       |       |
|-------|-------|-------|-------|----|------|-----|----|-------|-------|-------|
| 466.0 | 6110  | -22.7 | -32.7 | 40 | 0.53 | 179 | 11 | 311.5 | 313.4 | 311.6 |
| 447.7 | 6401  | -25.1 | -32.6 | 50 | 0.56 | 165 | 11 | 312.0 | 314.0 | 312.1 |
| 438.0 | 6561  | -26.5 | -32.5 | 57 | 0.57 | 162 | 12 | 312.3 | 314.3 | 312.4 |
| 428.0 | 6727  | -27.9 | -35.9 | 46 | 0.42 | 160 | 12 | 312.5 | 314.1 | 312.6 |
| 414.0 | 6965  | -29.1 | -41.1 | 30 | 0.25 | 156 | 13 | 314.0 | 314.9 | 314.0 |
| 411.4 | 7010  | -29.4 | -41.8 | 29 | 0.24 | 155 | 13 | 314.1 | 315.0 | 314.2 |
| 400.0 | 7210  | -30.9 | -44.9 | 24 | 0.18 | 175 | 13 | 314.8 | 315.4 | 314.8 |
| 398.0 | 7245  | -31.1 | -45.1 | 24 | 0.17 | 175 | 13 | 314.9 | 315.6 | 315.0 |
| 394.0 | 7315  | -31.7 | -45.7 | 24 | 0.16 | 175 | 13 | 315.0 | 315.6 | 315.1 |
| 377.1 | 7620  | -34.5 | -48.5 | 23 | 0.12 | 155 | 12 | 315.4 | 315.8 | 315.4 |
| 346.0 | 8216  | -39.9 | -53.9 | 21 | 0.07 | 150 | 12 | 315.9 | 316.2 | 315.9 |
| 345.3 | 8230  | -40.0 | -53.9 | 21 | 0.07 | 150 | 12 | 315.9 | 316.2 | 315.9 |
| 316.0 | 8827  | -45.3 | -54.3 | 36 | 0.08 | 163 | 18 | 316.7 | 317.0 | 316.7 |
| 301.2 | 9144  | -47.7 | -55.8 | 39 | 0.07 | 170 | 22 | 317.6 | 317.9 | 317.7 |
| 300.0 | 9170  | -47.9 | -55.9 | 39 | 0.07 | 170 | 21 | 317.7 | 318.0 | 317.7 |
| 293.0 | 9326  | -49.1 | -56.1 | 44 | 0.07 | 163 | 20 | 318.2 | 318.4 | 318.2 |
| 277.0 | 9694  | -51.1 | -60.1 | 33 | 0.04 | 148 | 18 | 320.4 | 320.6 | 320.4 |
| 274.5 | 9754  | -51.6 | -60.4 | 34 | 0.04 | 145 | 18 | 320.6 | 320.7 | 320.6 |
| 264.0 | 10007 | -53.7 | -61.7 | 37 | 0.04 | 160 | 16 | 321.1 | 321.2 | 321.1 |
| 260.0 | 10105 | -53.7 | -61.7 | 37 | 0.04 | 163 | 15 | 322.5 | 322.6 | 322.5 |
| 255.0 | 10231 | -51.7 | -63.7 | 22 | 0.03 | 166 | 15 | 327.2 | 327.3 | 327.2 |
| 250.0 | 10360 | -51.5 | -68.5 | 11 | 0.02 | 170 | 14 | 329.4 | 329.4 | 329.4 |
| 248.0 | 10412 | -51.3 | -70.3 | 9  | 0.01 | 170 | 13 | 330.4 | 330.5 | 330.4 |
| 242.0 | 10572 | -49.3 | -74.3 | 4  | 0.01 | 170 | 12 | 335.8 | 335.8 | 335.8 |
| 235.0 | 10765 | -48.9 | -80.9 | 1  | 0.00 | 170 | 10 | 339.2 | 339.2 | 339.2 |
| 231.0 | 10879 | -47.7 | -82.7 | 1  | 0.00 | 170 | 8  | 342.7 | 342.7 | 342.7 |
| 227.0 | 10994 | -47.7 | -82.7 | 1  | 0.00 | 170 | 7  | 344.4 | 344.4 | 344.4 |
| 224.0 | 11082 | -46.3 | -81.3 | 1  | 0.00 | 170 | 6  | 347.8 | 347.9 | 347.8 |
| 212.0 | 11450 | -44.7 | -79.7 | 1  | 0.00 | 170 | 2  | 355.9 | 355.9 | 355.9 |
| 207.9 | 11582 | -44.9 | -79.9 | 1  | 0.00 | 170 | 1  | 357.5 | 357.6 | 357.5 |
| 200.0 | 11840 | -45.3 | -80.3 | 1  | 0.00 | 270 | 3  | 360.9 | 360.9 | 360.9 |
| 196.0 | 11975 | -45.7 | -80.7 | 1  | 0.00 | 270 | 3  | 362.3 | 362.3 | 362.3 |
| 193.0 | 12077 | -45.1 | -80.1 | 1  | 0.00 | 270 | 3  | 364.9 | 364.9 | 364.9 |
| 168.0 | 13004 | -44.5 | -80.5 | 1  | 0.00 | 270 | 5  | 380.6 | 380.7 | 380.6 |
| 157.0 | 13456 | -45.9 | -80.9 | 1  | 0.00 | 270 | 6  | 385.7 | 385.7 | 385.7 |
| 153.0 | 13628 | -45.1 | -80.1 | 1  | 0.00 | 270 | 6  | 389.9 | 389.9 | 389.9 |
| 150.0 | 13760 | -45.7 | -80.7 | 1  | 0.00 | 270 | 6  | 391.1 | 391.1 | 391.1 |
| 144.0 | 14031 | -46.1 | -81.1 | 1  | 0.00 | 276 | 6  | 395.0 | 395.0 | 395.0 |
| 127.0 | 14866 | -45.9 | -80.9 | 1  | 0.00 | 296 | 5  | 409.8 | 409.8 | 409.8 |
| 120.0 | 15240 | -46.8 | -81.8 | 1  | 0.00 | 305 | 4  | 414.8 | 414.8 | 414.8 |
| 115.0 | 15524 | -47.5 | -82.5 | 1  | 0.00 | 304 | 5  | 418.6 | 418.6 | 418.6 |
| 111.0 | 15758 | -46.3 | -81.3 | 1  | 0.00 | 303 | 5  | 425.1 | 425.1 | 425.1 |
| 104.0 | 16190 | -46.7 | -81.7 | 1  | 0.00 | 301 | 6  | 432.3 | 432.4 | 432.3 |
| 100.0 | 16450 | -45.9 | -80.9 | 1  | 0.01 | 300 | 7  | 438.8 | 438.8 | 438.8 |
| 90.8  | 17091 | -46.3 | -81.3 | 1  | 0.01 | 309 | 6  | 450.2 | 450.3 | 450.2 |
| 85.3  | 17507 | -44.7 | -79.7 | 1  | 0.01 | 314 | 5  | 461.6 | 461.6 | 461.6 |
| 75.8  | 18288 | -46.2 | -81.2 | 1  | 0.01 | 325 | 3  | 474.1 | 474.2 | 474.1 |
| 70.0  | 18820 | -47.3 | -82.3 | 1  | 0.01 | 350 | 7  | 482.8 | 482.9 | 482.8 |
| 64.1  | 19402 | -48.1 | -82.1 | 1  | 0.01 | 353 | 5  | 493.4 | 493.4 | 493.4 |
| 51.8  | 20815 | -46.3 | -81.3 | 1  | 0.01 | 359 | 1  | 528.5 | 528.6 | 528.5 |
| 50.0  | 21050 | -46.7 | -81.7 | 1  | 0.01 | 0   | 0  | 533.0 | 533.0 | 533.0 |
| 47.9  | 21336 | -47.3 | -82.3 | 1  | 0.01 | 50  | 8  | 538.2 | 538.3 | 538.2 |
| 46.3  | 21559 | -47.7 | -82.7 | 1  | 0.01 | 51  | 8  | 542.4 | 542.5 | 542.4 |
| 34.0  | 23604 | -46.9 | -81.9 | 1  | 0.01 | 57  | 6  | 594.5 | 594.6 | 594.5 |
| 30.2  | 24384 | -44.3 | -80.2 | 1  | 0.02 | 60  | 5  | 621.8 | 622.0 | 621.8 |
| 30.0  | 24440 | -44.1 | -80.1 | 1  | 0.02 | 45  | 5  | 623.8 | 624.0 | 623.8 |
| 29.2  | 24622 | -43.5 | -79.5 | 1  | 0.02 | 41  | 9  | 630.3 | 630.5 | 630.3 |
| 28.9  | 24689 | -43.5 | -79.5 | 1  | 0.02 | 40  | 11 | 632.0 | 632.2 | 632.0 |
| 27.6  | 24994 | -43.7 | -79.7 | 1  | 0.03 | 105 | 10 | 639.9 | 640.1 | 639.9 |
| 26.4  | 25298 | -43.8 | -79.8 | 1  | 0.03 | 75  | 14 | 647.8 | 648.1 | 647.8 |
| 24.1  | 25908 | -44.0 | -80.0 | 1  | 0.03 | 100 | 17 | 664.1 | 664.4 | 664.1 |

|      |       |       |       |   |      |     |    |       |       |       |
|------|-------|-------|-------|---|------|-----|----|-------|-------|-------|
| 23.7 | 26025 | -44.1 | -80.1 | 1 | 0.03 | 85  | 16 | 667.2 | 667.5 | 667.3 |
| 23.1 | 26213 | -43.7 | -79.7 | 1 | 0.03 | 60  | 15 | 673.6 | 674.0 | 673.7 |
| 21.1 | 26822 | -42.6 | -78.6 | 1 | 0.04 | 110 | 18 | 694.8 | 695.2 | 694.8 |
| 20.1 | 27127 | -42.0 | -78.0 | 1 | 0.05 | 65  | 12 | 705.6 | 706.1 | 705.6 |
| 20.0 | 27170 | -41.9 | -77.9 | 1 | 0.05 | 80  | 11 | 707.1 | 707.6 | 707.1 |
| 19.2 | 27432 | -41.3 | -77.7 | 1 | 0.05 | 75  | 16 | 716.9 | 717.4 | 716.9 |
| 18.4 | 27737 | -40.6 | -77.5 | 1 | 0.05 | 90  | 16 | 728.4 | 728.9 | 728.4 |
| 18.3 | 27773 | -40.5 | -77.5 | 1 | 0.05 | 91  | 16 | 729.7 | 730.3 | 729.7 |
| 16.0 | 28687 | -40.3 | -77.3 | 1 | 0.06 | 110 | 11 | 758.9 | 759.6 | 758.9 |
| 15.4 | 28956 | -38.4 | -76.1 | 1 | 0.08 | 115 | 10 | 773.7 | 774.6 | 773.8 |
| 15.1 | 29084 | -37.5 | -75.5 | 1 | 0.09 | 88  | 10 | 780.8 | 781.9 | 780.9 |
| 14.7 | 29261 | -37.3 | -75.3 | 1 | 0.09 | 50  | 11 | 787.1 | 788.2 | 787.1 |
| 14.1 | 29566 | -37.1 | -75.1 | 1 | 0.10 | 80  | 10 | 798.0 | 799.1 | 798.0 |
| 13.5 | 29870 | -36.8 | -74.8 | 1 | 0.11 | 90  | 11 | 809.0 | 810.3 | 809.0 |
| 12.9 | 30175 | -36.5 | -74.5 | 1 | 0.12 | 135 | 15 | 820.1 | 821.6 | 820.2 |
| 12.3 | 30480 | -36.3 | -74.3 | 1 | 0.13 | 145 | 12 | 831.4 | 833.0 | 831.5 |
| 10.5 | 31599 | -35.3 | -73.3 | 1 | 0.18 | 76  | 11 | 874.3 | 876.6 | 874.4 |
| 10.3 | 31699 | -34.8 | -73.1 | 1 | 0.19 | 70  | 11 | 879.9 | 882.2 | 880.0 |
| 10.0 | 31940 | -33.5 | -72.5 | 1 | 0.21 | 80  | 11 | 893.3 | 896.0 | 893.4 |
| 9.9  | 32004 | -33.4 | -72.4 | 1 | 0.22 | 80  | 10 | 896.0 | 898.8 | 896.2 |
| 9.5  | 32309 | -32.9 | -72.1 | 1 | 0.24 | 70  | 12 | 909.2 | 912.2 | 909.3 |
| 9.1  | 32614 | -32.3 | -71.8 | 1 | 0.26 | 75  | 15 | 922.5 | 925.9 | 922.6 |
| 8.3  | 33223 | -31.3 | -71.2 | 1 | 0.31 | 130 | 18 | 949.6 | 953.8 | 949.8 |
| 8.2  | 33339 | -31.1 | -71.1 | 1 | 0.32 |     |    | 954.9 | 959.2 | 955.1 |

## Station information and sounding indices

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Station identifier: PAOM
Station number: 70200
Observation time: 150724/0000
Station latitude: 64.50
Station longitude: -165.43
Station elevation: 7.0
Showalter index: 3.32
Lifted index: 4.39
LIFT computed using virtual temperature: 4.31
SWEAT index: 49.19
K index: 23.10
Cross totals index: 21.50
Vertical totals index: 26.50
Totals totals index: 48.00
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: 280.71
Pres [hPa] of the Lifted Condensation Level: 913.52
Mean mixed layer potential temperature: 288.08
Mean mixed layer mixing ratio: 7.21
1000 hPa to 500 hPa thickness: 5519.00
Precipitable water [mm] for entire sounding: 20.88

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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:ldoolman@uwyo.edu)

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