# 71600 WSA Sable Island Observations at 12Z 10 Jan 2015

| PRES hPa | HGHT m | TEMP C | DWPT C | RELH % | MIXR g/kg | DRCT deg | SKNT knot | THTA K | THTE K | THTV K |
|---|---|---|---|---|---|---|---|---|---|---|
| 1018.0 | 5 | 0.2 | -6.8 | 59 | 2.27 | 320 | 12 | 272.0 | 278.3 | 272.3 |
| 1000.0 | 148 | -0.9 | -8.9 | 55 | 1.96 | 320 | 13 | 272.2 | 277.8 | 272.6 |
| 980.3 | 305 | -2.3 | -9.5 | 58 | 1.91 | 320 | 14 | 272.4 | 277.8 | 272.7 |
| 943.1 | 610 | -5.1 | -10.6 | 66 | 1.82 | 320 | 16 | 272.6 | 277.8 | 272.9 |
| 925.0 | 763 | -6.5 | -11.1 | 70 | 1.78 | 305 | 18 | 272.7 | 277.8 | 272.9 |
| 907.3 | 914 | -7.1 | -14.1 | 58 | 1.43 | 295 | 23 | 273.6 | 277.7 | 273.8 |
| 907.0 | 916 | -7.1 | -14.1 | 57 | 1.42 | 295 | 23 | 273.6 | 277.7 | 273.8 |
| 872.4 | 1219 | -8.5 | -13.2 | 69 | 1.59 | 275 | 29 | 275.2 | 279.8 | 275.5 |
| 872.0 | 1222 | -8.5 | -13.2 | 69 | 1.59 | 275 | 29 | 275.2 | 279.9 | 275.5 |
| 852.0 | 1402 | -9.7 | -10.9 | 91 | 1.96 | 266 | 30 | 275.8 | 281.4 | 276.1 |
| 850.0 | 1420 | -9.7 | -10.9 | 91 | 1.97 | 265 | 30 | 276.0 | 281.6 | 276.3 |
| 843.0 | 1484 | -9.9 | -11.7 | 87 | 1.86 | 259 | 34 | 276.4 | 281.8 | 276.7 |
| 838.6 | 1524 | -9.4 | -14.9 | 64 | 1.44 | 255 | 36 | 277.3 | 281.6 | 277.6 |
| 822.0 | 1679 | -7.5 | -27.5 | 18 | 0.49 | 250 | 45 | 280.9 | 282.5 | 281.0 |
| 809.0 | 1804 | -5.1 | -43.1 | 3 | 0.11 | 246 | 53 | 284.8 | 285.2 | 284.8 |
| 806.4 | 1829 | -4.9 | -41.2 | 4 | 0.13 | 245 | 54 | 285.3 | 285.8 | 285.3 |
| 788.0 | 2011 | -3.1 | -27.1 | 14 | 0.53 | 242 | 64 | 289.1 | 290.8 | 289.2 |
| 777.0 | 2122 | -3.1 | -22.1 | 22 | 0.84 | 240 | 69 | 290.2 | 293.0 | 290.4 |
| 775.9 | 2134 | -3.1 | -22.6 | 21 | 0.81 | 240 | 70 | 290.4 | 293.0 | 290.5 |
| 760.0 | 2297 | -3.1 | -29.1 | 11 | 0.46 | 240 | 76 | 292.1 | 293.6 | 292.2 |
| 746.5 | 2438 | -4.4 | -22.6 | 23 | 0.84 | 240 | 81 | 292.2 | 294.9 | 292.3 |
| 731.0 | 2604 | -5.9 | -14.9 | 49 | 1.65 | 240 | 85 | 292.3 | 297.4 | 292.6 |
| 721.0 | 2711 | -5.9 | -9.4 | 76 | 2.61 | 240 | 88 | 293.4 | 301.4 | 293.9 |
| 718.1 | 2743 | -6.0 | -9.2 | 78 | 2.67 | 240 | 89 | 293.7 | 301.9 | 294.2 |
| 700.0 | 2943 | -6.3 | -7.9 | 88 | 3.03 | 235 | 95 | 295.5 | 304.7 | 296.0 |
| 684.0 | 3124 | -7.1 | -7.8 | 95 | 3.12 | 234 | 96 | 296.5 | 306.1 | 297.1 |
| 663.0 | 3367 | -8.9 | -11.4 | 82 | 2.42 | 232 | 98 | 297.2 | 304.7 | 297.6 |
| 638.5 | 3658 | -10.0 | -11.2 | 91 | 2.55 | 230 | 100 | 299.1 | 307.2 | 299.6 |
| 636.0 | 3688 | -10.1 | -11.2 | 92 | 2.57 | 230 | 100 | 299.4 | 307.4 | 299.8 |
| 609.0 | 4022 | -12.5 | -13.2 | 95 | 2.28 | 227 | 95 | 300.3 | 307.6 | 300.7 |
| 589.4 | 4267 | -14.2 | -15.0 | 94 | 2.04 | 225 | 92 | 301.1 | 307.7 | 301.5 |
| 543.3 | 4877 | -18.5 | -19.3 | 93 | 1.53 | 230 | 100 | 303.1 | 308.1 | 303.4 |
| 500.0 | 5500 | -22.9 | -23.8 | 92 | 1.13 | 230 | 102 | 305.1 | 308.9 | 305.3 |
| 465.0 | 6027 | -26.9 | -28.4 | 87 | 0.80 | 234 | 110 | 306.5 | 309.2 | 306.6 |
| 460.6 | 6096 | -27.2 | -28.6 | 88 | 0.79 | 235 | 111 | 307.0 | 309.7 | 307.1 |
| 429.0 | 6605 | -29.3 | -30.2 | 92 | 0.73 | 235 | 119 | 310.6 | 313.1 | 310.7 |
| 404.0 | 7030 | -32.7 | -35.2 | 78 | 0.48 | 235 | 125 | 311.5 | 313.2 | 311.6 |
| 400.0 | 7100 | -32.3 | -34.1 | 84 | 0.54 | 235 | 126 | 312.9 | 314.9 | 313.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 396.0 | 7171 | -31.3 | -32.6 | 88 | 0.63 | 235 | 128 | 315.1 | 317.4 | 315.2 |
| 387.9 | 7315 | -32.2 | -33.8 | 86 | 0.57 | 235 | 133 | 315.8 | 317.9 | 315.9 |
| 371.3 | 7620 | -34.2 | -36.3 | 81 | 0.47 | 235 | 134 | 317.1 | 318.9 | 317.2 |
| 327.0 | 8507 | -39.9 | -43.5 | 68 | 0.25 | 235 | 138 | 321.0 | 322.0 | 321.1 |
| 300.0 | 9090 | -45.3 | -49.6 | 62 | 0.14 | 235 | 140 | 321.4 | 321.9 | 321.4 |
| 299.0 | 9112 | -45.7 | -50.1 | 61 | 0.13 | 235 | 140 | 321.1 | 321.7 | 321.2 |
| 297.6 | 9144 | -45.9 | -50.3 | 61 | 0.13 | 235 | 140 | 321.3 | 321.8 | 321.3 |
| 275.0 | 9663 | -49.3 | -53.2 | 64 | 0.10 | 235 | 142 | 323.7 | 324.1 | 323.7 |
| 259.0 | 10052 | -51.5 | -59.5 | 38 | 0.05 | 235 | 144 | 326.1 | 326.3 | 326.1 |
| 250.0 | 10280 | -53.3 | -61.3 | 37 | 0.04 | 235 | 145 | 326.7 | 326.9 | 326.7 |
| 249.0 | 10306 | -53.5 | -61.5 | 37 | 0.04 | 235 | 145 | 326.8 | 327.0 | 326.8 |
| 246.8 | 10363 | -53.9 | -61.8 | 37 | 0.04 | 235 | 145 | 327.0 | 327.1 | 327.0 |
| 235.2 | 10668 | -56.2 | -63.6 | 39 | 0.03 | 235 | 141 | 328.0 | 328.2 | 328.1 |
| 227.0 | 10894 | -57.9 | -64.9 | 40 | 0.03 | 236 | 139 | 328.8 | 328.9 | 328.8 |
| 221.0 | 11064 | -56.5 | -64.5 | 36 | 0.03 | 237 | 137 | 333.5 | 333.6 | 333.5 |
| 205.0 | 11536 | -60.3 | -70.3 | 26 | 0.01 | 240 | 132 | 334.8 | 334.8 | 334.8 |
| 200.0 | 11690 | -58.9 | -72.9 | 15 | 0.01 | 240 | 129 | 339.3 | 339.4 | 339.3 |
| 186.0 | 12149 | -56.3 | -77.3 | 5 | 0.01 | 240 | 124 | 350.6 | 350.7 | 350.6 |
| 181.0 | 12323 | -53.1 | -79.1 | 3 | 0.00 | 240 | 122 | 358.6 | 358.6 | 358.6 |
| 168.0 | 12803 | -54.7 | -83.7 | 2 | 0.00 | 240 | 117 | 363.7 | 363.7 | 363.7 |
| 161.0 | 13076 | -53.1 | -84.1 | 1 | 0.00 | 240 | 115 | 370.8 | 370.8 | 370.8 |
| 150.0 | 13530 | -56.1 | -86.1 | 1 | 0.00 | 240 | 110 | 373.2 | 373.2 | 373.2 |
| 136.0 | 14146 | -60.3 | -88.3 | 1 | 0.00 | 240 | 109 | 376.4 | 376.4 | 376.4 |
| 131.0 | 14379 | -60.7 | -88.7 | 1 | 0.00 | 240 | 106 | 379.7 | 379.7 | 379.7 |
| 130.0 | 14426 | -59.1 | -88.1 | 1 | 0.00 | 240 | 105 | 383.4 | 383.4 | 383.4 |
| 124.0 | 14721 | -60.3 | -89.3 | 1 | 0.00 | 240 | 102 | 386.4 | 386.5 | 386.4 |
| 117.0 | 15084 | -59.3 | -89.3 | 1 | 0.00 | 240 | 97 | 394.8 | 394.8 | 394.8 |
| 114.1 | 15240 | -60.5 | -89.9 | 1 | 0.00 | 240 | 95 | 395.5 | 395.5 | 395.5 |
| 112.0 | 15356 | -61.3 | -90.3 | 1 | 0.00 | 240 | 95 | 396.0 | 396.0 | 396.0 |
| 104.0 | 15816 | -59.9 | -88.9 | 1 | 0.00 | 240 | 94 | 407.1 | 407.1 | 407.1 |
| 100.0 | 16060 | -61.3 | -89.3 | 1 | 0.00 | 240 | 93 | 409.0 | 409.0 | 409.0 |
| 98.5 | 16154 | -60.2 | -88.9 | 1 | 0.00 | 240 | 93 | 412.9 | 412.9 | 412.9 |
| 97.0 | 16250 | -59.1 | -88.5 | 1 | 0.00 | 240 | 94 | 416.9 | 416.9 | 416.9 |
| 95.7 | 16335 | -58.1 | -88.1 | 1 | 0.00 | 240 | 93 | 420.4 | 420.5 | 420.4 |
| 85.2 | 17060 | -61.9 | -89.9 | 1 | 0.00 | 242 | 87 | 427.0 | 427.0 | 427.0 |
| 75.0 | 17849 | -62.1 | -90.1 | 1 | 0.00 | 244 | 80 | 442.4 | 442.4 | 442.4 |
| 70.0 | 18280 | -57.7 | -88.7 | 1 | 0.00 | 245 | 76 | 460.6 | 460.6 | 460.6 |
| 69.9 | 18288 | -57.6 | -88.7 | 1 | 0.00 | 240 | 76 | 460.9 | 460.9 | 460.9 |
| 68.3 | 18436 | -56.5 | -88.5 | 1 | 0.00 | 240 | 74 | 466.4 | 466.4 | 466.4 |
| 66.6 | 18593 | -56.9 | -88.7 | 1 | 0.00 | 240 | 72 | 468.8 | 468.9 | 468.8 |
| 57.6 | 19507 | -59.4 | -90.1 | 1 | 0.00 | 235 | 48 | 483.1 | 483.1 | 483.1 |
| 54.9 | 19812 | -60.2 | -90.6 | 1 | 0.00 | 225 | 52 | 487.9 | 488.0 | 488.0 |
| 52.3 | 20117 | -61.0 | -91.1 | 1 | 0.00 | 235 | 62 | 492.8 | 492.9 | 492.8 |
| 52.1 | 20142 | -61.1 | -91.1 | 1 | 0.00 | 235 | 62 | 493.2 | 493.2 | 493.2 |
| 50.0 | 20400 | -57.9 | -88.9 | 1 | 0.00 | 230 | 58 | 506.6 | 506.6 | 506.6 |
| 48.9 | 20541 | -56.9 | -88.9 | 1 | 0.00 | 228 | 59 | 512.2 | 512.2 | 512.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 47.5 | 20726 | -56.8 | -88.8 | 1 | 0.00 | 225 | 60 | 516.8 | 516.8 | 516.8 |
| 43.7 | 21253 | -56.5 | -88.5 | 1 | 0.00 | 242 | 45 | 529.9 | 529.9 | 529.9 |
| 43.1 | 21336 | -56.8 | -88.6 | 1 | 0.00 | 245 | 43 | 531.2 | 531.3 | 531.2 |
| 41.1 | 21641 | -57.8 | -89.0 | 1 | 0.00 | 260 | 50 | 536.2 | 536.2 | 536.2 |
| 37.4 | 22233 | -59.7 | -89.7 | 1 | 0.00 | 236 | 59 | 545.8 | 545.9 | 545.8 |
| 37.3 | 22250 | -59.5 | -89.6 | 1 | 0.00 | 235 | 59 | 546.7 | 546.8 | 546.7 |
| 34.8 | 22689 | -54.5 | -87.5 | 1 | 0.01 | 224 | 57 | 570.7 | 570.8 | 570.8 |
| 33.9 | 22860 | -54.4 | -87.4 | 1 | 0.01 | 220 | 56 | 575.4 | 575.5 | 575.4 |
| 32.3 | 23165 | -54.2 | -87.2 | 1 | 0.01 | 215 | 47 | 583.9 | 584.0 | 583.9 |
| 31.9 | 23247 | -54.1 | -87.1 | 1 | 0.01 | 217 | 46 | 586.2 | 586.2 | 586.2 |
| 31.3 | 23368 | -54.7 | -86.7 | 1 | 0.01 | 219 | 46 | 587.8 | 587.8 | 587.8 |
| 30.0 | 23640 | -54.1 | -86.1 | 1 | 0.01 | 225 | 44 | 596.6 | 596.6 | 596.6 |
| 29.4 | 23774 | -54.0 | -86.0 | 1 | 0.01 | 225 | 42 | 600.4 | 600.5 | 600.4 |
| 28.0 | 24079 | -53.8 | -85.8 | 1 | 0.01 | 235 | 46 | 609.3 | 609.4 | 609.3 |
| 27.6 | 24174 | -53.7 | -85.7 | 1 | 0.01 | 233 | 47 | 612.0 | 612.1 | 612.1 |
| 26.4 | 24462 | -49.3 | -83.3 | 1 | 0.01 | 226 | 50 | 632.3 | 632.5 | 632.3 |
| 25.5 | 24689 | -48.5 | -82.8 | 1 | 0.02 | 220 | 52 | 640.9 | 641.1 | 640.9 |
| 23.5 | 25228 | -46.5 | -81.5 | 1 | 0.02 | 205 | 47 | 661.9 | 662.1 | 661.9 |
| 22.2 | 25603 | -48.1 | -82.5 | 1 | 0.02 | 195 | 44 | 667.9 | 668.1 | 667.9 |
| 21.6 | 25783 | -48.9 | -82.9 | 1 | 0.02 | 196 | 42 | 670.8 | 671.0 | 670.8 |
| 20.2 | 26213 | -47.0 | -81.9 | 1 | 0.02 | 200 | 37 | 689.1 | 689.4 | 689.1 |
| 20.0 | 26290 | -46.7 | -81.7 | 1 | 0.03 | 195 | 40 | 692.5 | 692.7 | 692.5 |
| 17.7 | 27127 | -44.2 | -79.8 | 1 | 0.04 | 185 | 46 | 725.4 | 725.8 | 725.4 |
| 16.9 | 27432 | -43.3 | -79.1 | 1 | 0.05 | 190 | 46 | 737.8 | 738.3 | 737.8 |
| 14.1 | 28651 | -39.6 | -76.2 | 1 | 0.09 | 165 | 53 | 789.2 | 790.2 | 789.3 |
| 13.5 | 28956 | -38.7 | -75.5 | 1 | 0.10 | 155 | 45 | 802.6 | 803.8 | 802.7 |
| 13.1 | 29147 | -38.1 | -75.1 | 1 | 0.11 | 158 | 43 | 811.1 | 812.4 | 811.2 |
| 12.9 | 29261 | -38.3 | -75.3 | 1 | 0.11 | 160 | 42 | 814.3 | 815.5 | 814.3 |
| 11.5 | 30040 | -39.7 | -76.7 | 1 | 0.10 | 154 | 49 | 836.1 | 837.3 | 836.2 |
| 10.8 | 30480 | -39.4 | -76.4 | 1 | 0.11 | 150 | 53 | 852.7 | 854.0 | 852.7 |
| 10.5 | 30662 | -39.3 | -76.3 | 1 | 0.11 | 148 | 57 | 859.6 | 861.1 | 859.7 |
| 10.0 | 31000 | -33.9 | -72.9 | 1 | 0.20 | 145 | 65 | 891.8 | 894.4 | 891.9 |
| 9.9 | 31090 | -33.4 | -72.4 | 1 | 0.22 | 145 | 74 | 897.0 | 899.8 | 897.1 |
| 9.8 | 31142 | -33.1 | -72.1 | 1 | 0.23 | 144 | 74 | 900.0 | 902.9 | 900.1 |
| 8.8 | 31895 | -37.1 | -75.1 | 1 | 0.16 | 136 | 71 | 912.6 | 914.8 | 912.7 |
| 7.6 | 32918 | -35.4 | -74.1 | 1 | 0.22 | 125 | 68 | 958.4 | 961.5 | 958.6 |
| 7.0 | 33528 | -34.7 | -73.6 | 1 | 0.26 | 130 | 78 | 985.9 | 989.6 | 986.0 |
| 7.0 | 33490 | -34.5 | -73.5 | 1 | 0.26 | 130 | 78 | 985.0 | 988.7 | 985.2 |
| 6.7 | 33833 | -36.0 | -74.3 | 1 | 0.24 | 130 | 87 | 992.9 | 996.4 | 993.0 |
| 6.5 | 34005 | -36.7 | -74.7 | 1 | 0.24 | 124 | 81 | 996.8 | 1000.2 | 997.0 |
| 6.1 | 34442 | -33.3 | -72.0 | 1 | 0.37 | 110 | 67 | 1029.5 | 1035.0 | 1029.8 |
| 6.0 | 34565 | -32.3 | -71.3 | 1 | 0.42 | 106 | 70 | 1038.9 | 1045.1 | 1039.1 |
| 5.8 | 34747 | -33.0 | -72.0 | 1 | 0.39 | 100 | 75 | 1043.5 | 1049.3 | 1043.8 |
| 5.7 | 34925 | -33.7 | -72.7 | 1 | 0.36 | | | 1048.1 | 1053.5 | 1048.3 |

# Station information and sounding indices

```
                         Station identifier: WSA
                             Station number: 71600
                           Observation time: 150110/1200
                           Station latitude: 43.93
                          Station longitude: -60.01
                          Station elevation: 5.0
                            Showalter index: 19.70
                               Lifted index: 22.67
    LIFT computed using virtual temperature: 22.83
                                SWEAT index: 161.99
                                    K index: 0.70
                         Cross totals index: 12.00
                      Vertical totals index: 13.20
                        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: 262.66
Pres [hPa] of the Lifted Condensation Level: 881.69
     Mean mixed layer potential temperature: 272.30
              Mean mixed layer mixing ratio: 1.97
              1000 hPa to 500 hPa thickness: 5352.00
Precipitable water [mm] for entire sounding: 10.39
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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)

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