

## Daily Summary Report

Site: ORNL Sodar

3/6/2018

Interval: 015m

|       | 04_WS060m | 05_WDir060m | 06_WS100m | 07_WDir100m | 08_WS140m | 09_WDir140m | 10_WS180m | 11_WDir180m | 12_WS240m |
|-------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Hour  | M/SEC     | DEG         | M/SEC     | DEG         | KPH       | DEG         | M/SEC     | DEG         | M/SEC     |
| 00:00 | .3        | 51.0        | 1.9       | 304.0       | 2.5       | 301.3       | 2.2       | 292.5       | 1.8       |
| 00:15 | .2        | 158.5       | 1.9       | 297.0       | 2.4       | 287.8       | 2.2       | 268.4       | 2.6       |
| 00:30 | .2        | 176.2       | 1.5       | 271.0       | 2.0       | 266.4       | 2.3       | 251.0       | 3.4       |
| 00:45 | .1        | 192.9       | 1.4       | 271.0       | 2.0       | 269.0       | 2.5       | 258.4       | 3.4       |
| 01:00 | .3        | 185.6       | 1.7       | 277.5       | 2.0       | 269.0       | 2.5       | 260.7       | 3.0       |
| 01:15 | .3        | 120.4       | 1.4       | 285.7       | 1.1       | 264.3       | 1.3       | 258.9       | 2.1       |
| 01:30 | .3        | 115.7       | .9        | 299.0       | .5        | 276.1       | .5        | 248.1       | 1.5       |
| 01:45 | .5        | 134.3       | .8        | 286.4       | .3        | 269.9       | .4        | 228.1       | 1.1       |
| 02:00 | .4        | 130.5       | .6        | 287.4       | .2        | 260.6       | .2        | 231.2       | 1.3       |
| 02:15 | .2        | 119.2       | .5        | 292.9       | .3        | 283.7       | .6        | 239.9       | 1.7       |
| 02:30 | .1        | 76.0        | .6        | 302.9       | .5        | 293.6       | .7        | 247.8       | 2.3       |
| 02:45 | .2        | 65.1        | .9        | 314.5       | 1.0       | 308.6       | 1.1       | 280.3       | 2.5       |
| 03:00 | .4        | 44.8        | 2.0       | 325.7       | 2.2       | 319.5       | 2.4       | 303.6       | 2.1       |
| 03:15 | .9        | 2.9         | 2.9       | 328.5       | 3.6       | 326.0       | 3.5       | 311.5       | 3.0       |
| 03:30 | .5        | 93.9        | 2.2       | 325.5       | 3.3       | 324.9       | 3.1       | 307.6       | 2.5       |
| 03:45 | .1        | 251.1       | 2.0       | 323.0       | 2.7       | 309.9       | 2.6       | 290.3       | 2.0       |
| 04:00 | .2        | 261.6       | 1.8       | 317.7       | 2.3       | 299.4       | 2.4       | 283.6       | 2.6       |
| 04:15 | .1        | 171.0       | 1.0       | 307.9       | 2.1       | 301.0       | 2.0       | 287.0       | 2.1       |
| 04:30 | .5        | 274.1       | 1.6       | 311.3       | 3.1       | 301.6       | 3.2       | 289.6       | 3.1       |
| 04:45 | 1.2       | 267.7       | 2.1       | 304.7       | 3.8       | 299.4       | 3.8       | 288.4       | 4.0       |
| 05:00 | .4        | 236.0       | 2.0       | 290.8       | 3.4       | 290.9       | 3.3       | 281.9       | 3.7       |
| 05:15 | .5        | 110.8       | 1.6       | 290.2       | 2.6       | 285.8       | 2.5       | 274.5       | 2.4       |
| 05:30 | .6        | 116.3       | 1.3       | 291.0       | 1.8       | 281.1       | 2.0       | 265.7       | 1.1       |
| 05:45 | .6        | 122.8       | 1.0       | 277.3       | 1.5       | 269.4       | 2.1       | 260.4       | 1.3       |
| 06:00 | .7        | 125.0       | .8        | 276.6       | 1.6       | 264.4       | 2.5       | 255.1       | 2.0       |
| 06:15 | .7        | 126.8       | .6        | 287.9       | 1.2       | 263.7       | 1.9       | 247.4       | 2.7       |
| 06:30 | .7        | 124.5       | .2        | 314.5       | .5        | 243.2       | 1.2       | 231.9       | 2.5       |
| 06:45 | .6        | 121.5       | .2        | 65.5        | .4        | 179.6       | .9        | 200.1       | 2.1       |
| 07:00 | .5        | 117.9       | .2        | 2.5         | .5        | 118.5       | .9        | 172.8       | 1.7       |
| 07:15 | .4        | 101.8       | .4        | 345.4       | .5        | 87.2        | .4        | 164.9       | 1.2       |
| 07:30 | .4        | 87.0        | .5        | 327.1       | .2        | 26.3        | .1        | 158.9       | .7        |
| 07:45 | .3        | 87.8        | .5        | 298.9       | .0        | 106.9       | .3        | 167.2       | .7        |
| 08:00 | .2        | 102.4       | .4        | 314.0       | .2        | 152.8       | .4        | 198.5       | .9        |
| 08:15 | .2        | 117.6       | .3        | 309.4       | .1        | 149.6       | .4        | 209.9       | .7        |
| 08:30 | .2        | 108.8       | .5        | 299.2       | .4        | 243.7       | 1.1       | 240.6       | 1.6       |
| 08:45 | .3        | 101.4       | .6        | 287.2       | .7        | 243.7       | 1.2       | 239.9       | 1.6       |
| 09:00 | .3        | 88.6        | .6        | 261.1       | .4        | 228.5       | .4        | 243.3       | .9        |
| 09:15 | .3        | 91.9        | .5        | 248.1       | .3        | 215.3       | .3        | 272.1       | .7        |
| 09:30 | .2        | 90.9        | .5        | 241.9       | .6        | 215.5       | .8        | 224.7       | .7        |
| 09:45 | .2        | 68.3        | 1.0       | 241.3       | 1.4       | 237.5       | 1.6       | 239.9       | .9        |
| 10:00 | .2        | 77.0        | .9        | 242.2       | 1.5       | 241.1       | 1.7       | 251.9       | 1.5       |
| 10:15 | .2        | 57.8        | .7        | 248.9       | 1.2       | 239.3       | 1.5       | 255.5       | 2.1       |
| 10:30 | .3        | 42.6        | .8        | 245.7       | 1.3       | 254.4       | 2.0       | 264.3       | 2.1       |
| 10:45 | .3        | 41.2        | .7        | 246.6       | 1.1       | 262.3       | 1.8       | 269.3       | 1.8       |
| 11:00 | .4        | 33.6        | .6        | 260.3       | .9        | 272.1       | 1.2       | 278.2       | 1.3       |
| 11:15 | .3        | 56.5        | .4        | 224.8       | .4        | 261.8       | .5        | 298.8       | .8        |
| 11:30 | .5        | 43.7        | .2        | 178.9       | .2        | 329.8       | .4        | 20.3        | .5        |
| 11:45 | 1.0       | 78.0        | 1.9       | 86.6        | 1.4       | 76.3        | 1.4       | 74.4        | 1.3       |
| 12:00 | 1.0       | 98.5        | 2.7       | 99.4        | 2.1       | 94.6        | 2.1       | 95.8        | 1.7       |
| 12:15 | .5        | 101.7       | 1.6       | 100.3       | 1.0       | 88.0        | 1.2       | 105.2       | 1.1       |



## Daily Summary Report

Site: ORNL Sodar

3/6/2018

Interval: 015m

|       | 13_WDir240m | 14_WS300m | 15_WDir300m | 16_WS400m | 17_WDir400m | 18_WS500m | 19_WDir500m | 20_WS600m | 21_WDir600m |
|-------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| Hour  | DEG         | M/SEC     | DEG         | M/SEC     | DEG         | M/SEC     | DEG         | M/SEC     | DEG         |
| 00:00 | 248.2       | 3.0       | 217.0       | 6.3       | 202.0       | 8.6       | 206.7       | 11.0      | 210.0       |
| 00:15 | 231.2       | 4.1       | 215.7       | 8.0       | 204.8       | 9.4       | 214.4       | 11.3      | 214.0       |
| 00:30 | 227.3       | 5.5       | 218.0       | 9.5       | 210.1       | 9.6       | 220.4       | 11.5      | 218.6       |
| 00:45 | 232.9       | 5.5       | 217.7       | 8.8       | 212.5       | 10.3      | 216.3       | 10.8      | 217.6       |
| 01:00 | 240.1       | 5.3       | 219.4       | 7.4       | 216.5       | 10.7      | 215.5       | 11.7      | 221.0       |
| 01:15 | 229.4       | 4.6       | 217.5       | 7.4       | 209.6       | 10.5      | 209.4       | 12.6      | 214.1       |
| 01:30 | 215.8       | 3.6       | 208.9       | 7.4       | 205.2       | 10.7      | 205.3       | 12.7      | 210.0       |
| 01:45 | 220.8       | 3.3       | 206.9       | 7.6       | 204.2       | 10.8      | 201.4       | 12.7      | 203.0       |
| 02:00 | 217.0       | 3.1       | 210.3       | 7.4       | 201.6       | 10.2      | 195.2       | 12.8      | 195.4       |
| 02:15 | 213.2       | 3.7       | 210.6       | 7.7       | 197.1       | 10.8      | 191.7       | 12.2      | 198.5       |
| 02:30 | 224.2       | 4.4       | 211.5       | 8.3       | 194.7       | 11.5      | 190.5       | 9.8       | 205.1       |
| 02:45 | 235.5       | 3.9       | 214.1       | 7.7       | 196.2       | 10.6      | 192.6       | 8.6       | 207.0       |
| 03:00 | 265.8       | 2.8       | 234.3       | 6.3       | 201.2       | 8.1       | 200.0       | 8.4       | 207.4       |
| 03:15 | 298.5       | 2.9       | 265.5       | 4.8       | 213.6       | 6.4       | 208.6       | 9.1       | 201.1       |
| 03:30 | 298.3       | 3.1       | 263.0       | 4.9       | 210.6       | 7.0       | 206.2       | 9.5       | 202.0       |
| 03:45 | 260.1       | 3.8       | 246.0       | 6.6       | 205.5       | 8.0       | 204.0       | 9.5       | 204.0       |
| 04:00 | 242.8       | 3.5       | 223.1       | 7.3       | 202.8       | 9.0       | 202.4       | 10.0      | 205.0       |
| 04:15 | 253.3       | 2.9       | 218.9       | 6.5       | 202.7       | 8.7       | 201.2       | 10.4      | 206.5       |
| 04:30 | 274.7       | 2.8       | 246.6       | 5.6       | 216.3       | 8.6       | 203.9       | 11.0      | 211.2       |
| 04:45 | 275.5       | 3.6       | 257.3       | 5.5       | 221.7       | 8.4       | 209.3       | 11.1      | 220.3       |
| 05:00 | 269.8       | 4.0       | 258.3       | 5.3       | 228.8       | 8.0       | 218.5       | 9.2       | 222.4       |
| 05:15 | 262.3       | 3.3       | 257.3       | 4.8       | 238.4       | 6.5       | 229.6       | 9.5       | 222.0       |
| 05:30 | 240.4       | 1.6       | 246.5       | 5.5       | 223.5       | 8.0       | 219.6       | 10.3      | 221.0       |
| 05:45 | 240.7       | 1.9       | 235.7       | 6.0       | 222.2       | 8.8       | 217.7       | 11.0      | 220.5       |
| 06:00 | 233.3       | 3.4       | 222.8       | 6.5       | 223.8       | 9.4       | 219.9       | 11.1      | 223.0       |
| 06:15 | 219.8       | 4.5       | 220.7       | 7.6       | 225.4       | 11.0      | 228.6       | 11.1      | 226.0       |
| 06:30 | 218.6       | 4.5       | 225.9       | 8.1       | 227.2       | 11.3      | 228.9       | 11.2      | 229.2       |
| 06:45 | 217.8       | 4.0       | 228.6       | 7.6       | 226.4       | 10.0      | 226.1       | 10.5      | 226.8       |
| 07:00 | 198.5       | 2.8       | 231.1       | 5.2       | 243.3       | 7.5       | 242.0       | 8.8       | 229.0       |
| 07:15 | 190.9       | 1.3       | 238.3       | 3.5       | 257.0       | 6.0       | 260.0       | 8.1       | 234.4       |
| 07:30 | 222.3       | 1.2       | 216.5       | 4.0       | 243.0       | 6.0       | 252.0       | 8.1       | 232.9       |
| 07:45 | 211.6       | 1.3       | 215.4       | 4.3       | 235.7       | 5.9       | 245.0       | 8.1       | 231.4       |
| 08:00 | 207.9       | .6        | 243.1       | 4.9       | 240.5       | 7.5       | 246.9       | 8.1       | 229.9       |
| 08:15 | 243.5       | .8        | 260.1       | 5.4       | 251.0       | 6.6       | 259.5       | 8.1       | 228.4       |
| 08:30 | 251.1       | 1.5       | 274.6       | 6.5       | 263.0       |           |             | 8.2       | 226.9       |
| 08:45 | 248.5       | 1.3       | 280.1       | 6.0       | 264.6       |           |             | 8.2       | 225.4       |
| 09:00 | 221.7       | .9        | 242.7       | 4.8       | 257.5       |           |             | 8.2       | 223.9       |
| 09:15 | 213.7       | 1.1       | 236.6       | 4.9       | 267.3       |           |             | 8.2       | 222.4       |
| 09:30 | 227.1       | 1.1       | 253.6       | 4.2       | 268.8       |           |             | 8.2       | 220.9       |
| 09:45 | 232.0       | 1.3       | 278.8       | 2.5       | 258.6       |           |             | 8.3       | 219.4       |
| 10:00 | 264.9       | 2.4       | 288.4       | 6.0       | 276.2       |           |             | 8.3       | 217.9       |
| 10:15 | 272.9       | 3.0       | 285.7       | 3.9       | 297.1       |           |             | 8.3       | 216.4       |
| 10:30 | 283.1       | 3.1       | 289.9       | 3.0       | 305.5       |           |             | 8.3       | 214.9       |
| 10:45 | 293.2       | 3.0       | 298.9       | 3.4       | 308.6       |           |             | 8.3       | 213.4       |
| 11:00 | 299.0       | 2.4       | 309.5       | 3.0       | 322.0       |           |             | 8.4       | 211.9       |
| 11:15 | 315.1       | 1.5       | 337.1       | 2.0       | 340.0       |           |             | 8.4       | 210.4       |
| 11:30 | 25.6        | 1.0       | 22.6        | 1.4       | 354.4       |           |             | 8.4       | 208.9       |
| 11:45 | 76.1        | 1.1       | 71.9        | 1.4       | 5.0         | 2.6       | 351.8       | 8.4       | 207.4       |
| 12:00 | 103.9       | 1.4       | 111.9       | 1.8       | 109.0       | 3.9       | 181.1       | 8.4       | 205.9       |
| 12:15 | 129.2       | 1.1       | 125.5       | 1.8       | 123.0       | 2.7       | 178.0       | 8.5       | 204.4       |



## Daily Summary Report

Site: ORNL Sodar

3/6/2018

Interval: 015m

|       | 22_WS700m | 23_WDir700m | 24_WS800m | 25_WDir800m | 26_WS900m | 27_WDir900m |
|-------|-----------|-------------|-----------|-------------|-----------|-------------|
| Hour  | M/SEC     | DEG         | M/SEC     | DEG         | M/SEC     | DEG         |
| 00:00 | 10.0      | 231.0       |           |             |           |             |
| 00:15 | 10.0      | 232.0       |           |             |           |             |
| 00:30 | 9.7       | 234.2       |           |             |           |             |
| 00:45 | 9.4       | 236.8       |           |             |           |             |
| 01:00 | 10.0      | 230.0       |           |             |           |             |
| 01:15 | 11.0      | 225.0       |           |             |           |             |
| 01:30 | 12.0      | 220.0       |           |             |           |             |
| 01:45 | 13.0      | 212.0       |           |             |           |             |
| 02:00 | 13.5      | 205.1       |           |             |           |             |
| 02:15 | 12.0      | 211.0       |           |             |           |             |
| 02:30 | 11.0      | 217.0       |           |             |           |             |
| 02:45 | 10.3      | 223.6       | 10.2      | 232.2       |           |             |
| 03:00 | 10.6      | 222.7       | 10.1      | 226.0       | 12.0      | 242.3       |
| 03:15 | 10.8      | 223.0       | 10.3      | 227.0       |           |             |
| 03:30 | 10.8      | 224.0       | 10.3      | 228.0       |           |             |
| 03:45 | 10.8      | 225.0       | 10.5      | 229.0       |           |             |
| 04:00 | 10.8      | 225.0       | 10.5      | 230.0       |           |             |
| 04:15 | 11.0      | 226.0       | 10.8      | 231.0       |           |             |
| 04:30 | 11.3      | 226.0       | 10.8      | 232.0       |           |             |
| 04:45 | 11.3      | 227.0       | 11.0      | 233.0       |           |             |
| 05:00 | 11.5      | 228.0       | 11.3      | 235.0       |           |             |
| 05:15 | 11.5      | 229.0       | 11.5      | 236.0       |           |             |
| 05:30 | 11.8      | 230.0       | 11.8      | 238.0       |           |             |
| 05:45 | 11.9      | 230.4       | 12.0      | 239.6       |           |             |
| 06:00 | 11.8      | 229.4       | 12.0      | 238.6       |           |             |
| 06:15 | 11.8      | 228.4       | 11.9      | 237.6       |           |             |
| 06:30 | 11.8      | 227.4       | 11.9      | 236.1       |           |             |
| 06:45 | 11.7      | 226.4       | 11.9      | 234.6       |           |             |
| 07:00 | 11.7      | 225.4       | 11.9      | 233.1       |           |             |
| 07:15 | 11.7      | 224.4       | 11.9      | 231.6       |           |             |
| 07:30 | 11.7      | 223.4       | 11.8      | 230.1       |           |             |
| 07:45 | 11.6      | 222.4       | 11.8      | 228.6       |           |             |
| 08:00 | 11.6      | 221.4       | 11.8      | 227.1       |           |             |
| 08:15 | 11.6      | 220.4       | 11.8      | 225.6       |           |             |
| 08:30 | 11.5      | 219.4       | 11.8      | 224.1       |           |             |
| 08:45 | 11.5      | 218.4       | 11.7      | 222.6       |           |             |
| 09:00 | 11.5      | 217.4       | 11.7      | 221.1       |           |             |
| 09:15 | 11.4      | 216.4       | 11.7      | 220.1       |           |             |
| 09:30 | 11.4      | 215.4       | 11.7      | 219.1       |           |             |
| 09:45 | 11.4      | 214.4       | 11.7      | 218.1       |           |             |
| 10:00 | 11.3      | 213.4       | 11.6      | 217.1       |           |             |
| 10:15 | 11.3      | 212.4       | 11.6      | 216.1       |           |             |
| 10:30 | 11.3      | 211.4       | 11.6      | 215.1       |           |             |
| 10:45 | 11.3      | 210.4       | 11.6      | 214.1       |           |             |
| 11:00 | 11.2      | 209.4       | 11.6      | 213.1       |           |             |
| 11:15 | 11.2      | 208.4       | 11.5      | 212.1       |           |             |
| 11:30 | 11.2      | 207.4       | 11.5      | 211.1       |           |             |
| 11:45 | 11.1      | 206.4       | 11.5      | 210.1       |           |             |
| 12:00 | 11.1      | 205.4       | 11.5      | 209.1       |           |             |
| 12:15 | 11.1      | 204.4       | 11.5      | 208.1       |           |             |

|            | 22_WS700m | 23_WDir700m | 24_WS800m | 25_WDir800m | 26_WS900m | 27_WDir900m |
|------------|-----------|-------------|-----------|-------------|-----------|-------------|
| Hour       | M/SEC     | DEG         | M/SEC     | DEG         | M/SEC     | DEG         |
| 12:30      | 10.5      | 204.5       | 11.1      | 202.6       | 11.4      | 211.0       |
| 12:45      | 8.7       | 198.0       | 10.7      | 196.5       | 10.9      | 209.7       |
| 13:00      | 9.5       | 200.0       |           |             |           |             |
| 13:15      | 10.0      | 202.0       |           |             |           |             |
| 13:30      | 10.5      | 203.0       |           |             |           |             |
| 13:45      | 11.0      | 204.0       |           |             |           |             |
| 14:00      | 11.5      | 206.0       |           |             |           |             |
| 14:15      | 12.0      | 207.0       |           |             |           |             |
| 14:30      | 12.5      | 209.0       |           |             |           |             |
| 14:45      | 13.0      | 210.0       |           |             |           |             |
| 15:00      | 13.5      | 211.0       |           |             |           |             |
| 15:15      | 14.0      | 212.0       |           |             |           |             |
| 15:30      | 14.3      | 214.0       |           |             |           |             |
| 15:45      | 14.5      | 216.0       |           |             |           |             |
| 16:00      | 14.6      | 217.6       |           |             |           |             |
| 16:15      |           |             |           |             |           |             |
| 16:30      |           |             |           |             |           |             |
| 16:45      |           |             |           |             |           |             |
| 17:00      |           |             |           |             |           |             |
| 17:15      |           |             |           |             |           |             |
| 17:30      |           |             |           |             |           |             |
| 17:45      |           |             |           |             |           |             |
| 18:00      |           |             |           |             |           |             |
| 18:15      |           |             |           |             |           |             |
| 18:30      |           |             |           |             |           |             |
| 18:45      |           |             |           |             |           |             |
| 19:00      |           |             |           |             |           |             |
| 19:15      |           |             |           |             |           |             |
| 19:30      |           |             |           |             |           |             |
| 19:45      |           |             |           |             |           |             |
| 20:00      |           |             |           |             |           |             |
| 20:15      |           |             |           |             |           |             |
| 20:30      |           |             |           |             |           |             |
| 20:45      |           |             |           |             |           |             |
| 21:00      |           |             |           |             |           |             |
| 21:15      |           |             |           |             |           |             |
| 21:30      |           |             |           |             |           |             |
| 21:45      |           |             |           |             |           |             |
| 22:00      |           |             |           |             |           |             |
| 22:15      |           |             |           |             |           |             |
| 22:30      |           |             |           |             |           |             |
| 22:45      |           |             |           |             |           |             |
| 23:00      |           |             |           |             |           |             |
| 23:15      |           |             |           |             |           |             |
| 23:30      |           |             |           |             |           |             |
| 23:45      |           |             |           |             |           |             |
| Avg        | 11.4      | 217.7       | 11.4      | 224.1       | 11.4      | 221.0       |
| Max        | 14.6      | 236.8       | 12.0      | 239.6       | 12.0      | 242.3       |
| Hr. of Max | 64        | 03          | 24        | 23          | 12        | 12          |
| Min        | 8.7       | 198.0       | 10.1      | 196.5       | 10.9      | 209.7       |
| Count      | 65        | 65          | 41        | 41          | 3         | 3           |
| Total      |           |             |           |             |           |             |