

## Daily Summary Report

Site: ORNL Sodar

9/30/2018

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 | 1.5       | 83.9        | 3.0       | 64.2        | 5.1       | 49.3        | 7.2       | 47.2        | 6.8       |
| 00:15 | 2.5       | 101.1       | 3.1       | 67.2        | 4.7       | 50.5        | 6.6       | 50.2        | 6.8       |
| 00:30 | 2.1       | 95.0        | 3.1       | 67.7        | 4.6       | 53.8        | 6.4       | 56.7        | 7.1       |
| 00:45 | 1.0       | 94.3        | 3.0       | 67.7        | 4.7       | 56.3        | 6.5       | 59.5        | 7.0       |
| 01:00 | 1.2       | 77.4        | 2.5       | 67.0        | 4.5       | 57.5        | 6.0       | 63.0        | 7.0       |
| 01:15 | 1.0       | 78.4        | 2.5       | 61.8        | 4.3       | 54.7        | 5.6       | 63.6        | 6.7       |
| 01:30 | 1.1       | 80.5        | 2.9       | 57.4        | 4.2       | 50.2        | 5.1       | 59.4        | 6.5       |
| 01:45 | 1.0       | 82.1        | 2.4       | 54.5        | 3.9       | 48.5        | 4.3       | 59.1        | 6.2       |
| 02:00 | .7        | 87.3        | 1.9       | 48.8        | 3.6       | 46.0        | 4.0       | 58.0        | 5.2       |
| 02:15 | .4        | 92.0        | 1.9       | 59.9        | 3.4       | 45.1        | 3.8       | 56.8        | 4.7       |
| 02:30 | .3        | 84.1        | 2.3       | 58.4        | 3.4       | 47.8        | 3.5       | 54.6        | 4.3       |
| 02:45 | .5        | 72.6        | 2.5       | 57.6        | 3.4       | 53.0        | 3.4       | 60.5        | 4.0       |
| 03:00 | .6        | 79.7        | 2.7       | 69.9        | 3.7       | 60.5        | 4.0       | 67.7        | 4.8       |
| 03:15 | .6        | 92.9        | 2.5       | 73.7        | 4.0       | 63.1        | 4.5       | 67.4        | 4.7       |
| 03:30 | .6        | 99.9        | 2.5       | 70.9        | 3.9       | 61.7        | 4.5       | 63.5        | 3.7       |
| 03:45 | .5        | 85.2        | 2.6       | 71.5        | 3.9       | 54.7        | 4.7       | 53.3        | 3.7       |
| 04:00 | .7        | 89.1        | 2.5       | 65.8        | 3.8       | 48.0        | 5.0       | 47.5        | 3.3       |
| 04:15 | 1.0       | 93.4        | 2.3       | 61.7        | 3.5       | 50.5        | 5.2       | 48.4        | 3.2       |
| 04:30 | 1.1       | 83.7        | 2.3       | 64.5        | 3.5       | 53.3        | 5.5       | 46.8        | 3.8       |
| 04:45 | .9        | 85.4        | 2.6       | 66.3        | 4.0       | 55.2        | 5.6       | 50.3        | 4.0       |
| 05:00 | 1.1       | 89.9        | 2.5       | 71.9        | 4.3       | 59.0        | 5.4       | 55.2        | 3.8       |
| 05:15 | 1.0       | 85.2        | 2.7       | 71.7        | 4.6       | 54.9        | 5.7       | 49.2        | 3.5       |
| 05:30 | 1.1       | 82.4        | 2.8       | 67.2        | 4.6       | 52.0        | 5.8       | 49.1        | 3.5       |
| 05:45 | 1.5       | 83.9        | 2.5       | 67.0        | 4.3       | 57.8        | 5.3       | 55.2        | 3.9       |
| 06:00 | 1.1       | 73.0        | 2.3       | 66.1        | 4.4       | 59.5        | 5.1       | 60.8        | 4.0       |
| 06:15 | .3        | 80.8        | 1.8       | 62.3        | 3.7       | 55.6        | 4.7       | 56.2        | 3.4       |
| 06:30 | .5        | 197.4       | 1.6       | 65.7        | 3.2       | 51.2        | 4.3       | 49.3        | 2.8       |
| 06:45 | .5        | 214.8       | 1.7       | 66.9        | 3.0       | 54.2        | 2.9       | 45.3        | 2.4       |
| 07:00 | .1        | 290.0       | 2.1       | 63.9        | 2.8       | 56.8        | 1.9       | 54.3        | 2.6       |
| 07:15 | .3        | 311.0       | 2.2       | 61.2        | 2.8       | 54.6        | 2.0       | 58.4        | 2.0       |
| 07:30 | .3        | 279.9       | 2.0       | 62.3        | 2.9       | 57.9        | 2.0       | 63.5        | 1.0       |
| 07:45 | .2        | 289.5       | 1.6       | 65.3        | 2.8       | 56.3        | 2.8       | 68.7        | .7        |
| 08:00 | .1        | 293.8       | 1.0       | 53.1        | 2.1       | 53.5        | 3.0       | 64.5        | .3        |
| 08:15 | .1        | 241.8       | .9        | 26.3        | 2.2       | 47.4        | 2.7       | 56.6        | .2        |
| 08:30 | .2        | 231.2       | 1.3       | 35.3        | 3.0       | 41.9        | 3.0       | 46.7        | .6        |
| 08:45 | .3        | 219.3       | 1.4       | 42.6        | 2.9       | 43.5        | 3.2       | 44.9        | 1.5       |
| 09:00 | .3        | 5.3         | 1.7       | 53.8        | 2.5       | 49.5        | 3.4       | 52.6        | 4.5       |
| 09:15 | .5        | 28.3        | 2.0       | 56.1        | 2.7       | 56.6        | 3.6       | 65.7        | 3.2       |
| 09:30 | .6        | 25.6        | 1.4       | 50.5        | 2.4       | 56.4        | 3.3       | 69.6        | 3.5       |
| 09:45 | .4        | 74.0        | 1.2       | 53.9        | 1.7       | 48.6        | 2.8       | 72.0        | 3.5       |
| 10:00 | .8        | 101.4       | .9        | 79.6        | 1.3       | 70.3        | 2.2       | 72.2        | 2.8       |
| 10:15 | .8        | 97.1        | .9        | 114.9       | 1.5       | 110.6       | 1.8       | 73.1        | 2.2       |
| 10:30 | .4        | 60.3        | .8        | 75.2        | 1.2       | 72.0        | 1.5       | 81.5        | 1.9       |
| 10:45 | .7        | 70.9        | 1.0       | 78.6        | .9        | 83.7        | 1.0       | 95.8        | 1.2       |
| 11:00 | .8        | 81.7        | .9        | 90.0        | 1.1       | 116.3       | .9        | 111.8       | .7        |
| 11:15 | .7        | 95.6        | .9        | 80.0        | .9        | 81.4        | .7        | 77.7        | .5        |
| 11:30 | .8        | 94.7        | .7        | 94.3        | .6        | 38.8        | .3        | 60.6        | .5        |
| 11:45 | .8        | 109.3       | .9        | 167.8       | .7        | 179.1       | 1.1       | 176.5       | .2        |
| 12:00 | .9        | 132.1       | 1.1       | 168.4       | 1.2       | 160.3       | .9        | 151.5       | .7        |
| 12:15 | .3        | 200.1       | .7        | 206.6       | .9        | 183.8       | .8        | 178.5       | 1.0       |



## Daily Summary Report

Site: ORNL Sodar

9/30/2018

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 | 63.5        | 8.1       | 75.9        | 9.0       | 81.0        |           |             |           |             |
| 00:15 | 70.8        | 8.4       | 83.1        | 8.7       | 93.3        | 7.5       | 90.5        |           |             |
| 00:30 | 75.3        | 8.6       | 83.3        | 9.4       | 94.0        |           |             |           |             |
| 00:45 | 76.2        | 8.6       | 83.6        | 9.0       | 97.0        |           |             |           |             |
| 01:00 | 80.3        | 8.6       | 88.5        | 10.2      | 97.5        |           |             |           |             |
| 01:15 | 81.8        | 8.7       | 89.6        | 10.0      | 97.0        |           |             |           |             |
| 01:30 | 80.5        | 8.8       | 91.5        | 10.0      | 97.0        |           |             |           |             |
| 01:45 | 82.1        | 7.7       | 93.1        | 10.0      | 97.0        |           |             |           |             |
| 02:00 | 80.5        | 6.5       | 89.7        | 9.9       | 96.5        |           |             |           |             |
| 02:15 | 77.5        | 5.6       | 87.1        | 7.9       | 100.2       | 3.3       | 115.0       |           |             |
| 02:30 | 78.9        | 5.4       | 86.3        | 6.0       | 104.5       | 5.0       | 120.0       |           |             |
| 02:45 | 82.7        | 5.5       | 85.5        | 4.9       | 108.2       | 6.0       | 124.0       |           |             |
| 03:00 | 85.3        | 5.6       | 86.9        | 5.1       | 108.4       | 6.3       | 128.2       |           |             |
| 03:15 | 84.2        | 5.4       | 88.8        | 4.7       | 114.7       | 6.5       | 145.0       |           |             |
| 03:30 | 82.6        | 4.7       | 88.1        | 3.7       | 121.9       | 6.5       | 160.0       |           |             |
| 03:45 | 78.3        | 4.1       | 83.3        | 3.5       | 120.1       | 6.8       | 180.2       |           |             |
| 04:00 | 72.9        | 3.9       | 79.5        | 2.8       | 117.7       | 5.7       | 183.7       | 9.3       | 215.3       |
| 04:15 | 64.7        | 3.7       | 80.6        | 2.5       | 114.9       | 5.1       | 188.6       | 9.3       | 214.0       |
| 04:30 | 64.2        | 3.7       | 75.4        | 2.4       | 115.4       | 5.7       | 191.1       | 9.5       | 213.3       |
| 04:45 | 73.0        | 3.5       | 74.9        | 2.2       | 131.9       | 5.7       | 195.2       | 9.1       | 208.5       |
| 05:00 | 67.8        | 3.0       | 81.3        | 2.2       | 154.6       | 5.9       | 198.3       | 9.6       | 207.8       |
| 05:15 | 63.3        | 2.9       | 77.6        | 2.5       | 165.3       | 5.9       | 200.4       | 9.6       | 206.0       |
| 05:30 | 66.7        | 2.8       | 73.3        | 2.8       | 165.9       | 5.6       | 196.0       | 10.7      | 216.5       |
| 05:45 | 69.9        | 2.8       | 82.8        | 2.6       | 157.8       | 5.9       | 193.4       | 12.0      | 218.0       |
| 06:00 | 71.0        | 3.4       | 86.9        | 2.3       | 143.9       | 6.0       | 191.2       |           |             |
| 06:15 | 67.6        | 3.2       | 82.6        | 1.8       | 146.4       | 5.0       | 190.6       |           |             |
| 06:30 | 72.1        | 2.2       | 81.2        | 2.0       | 166.7       | 4.2       | 195.1       |           |             |
| 06:45 | 76.8        | 1.5       | 92.3        | 2.1       | 174.0       | 4.0       | 200.0       |           |             |
| 07:00 | 75.0        | 1.7       | 90.2        | 2.3       | 182.2       | 4.5       | 200.0       |           |             |
| 07:15 | 70.8        | 1.8       | 83.6        | 2.1       | 181.1       | 5.0       | 200.2       |           |             |
| 07:30 | 72.3        | 1.6       | 93.9        | 2.1       | 180.4       | 5.0       | 197.0       |           |             |
| 07:45 | 75.1        | 1.6       | 94.7        | 2.2       | 180.7       | 5.1       | 194.6       |           |             |
| 08:00 | 85.9        | 1.3       | 80.9        | 1.4       | 186.4       | 4.4       | 210.6       |           |             |
| 08:15 | 107.8       | .8        | 56.1        | .9        | 223.6       | 4.2       | 222.0       |           |             |
| 08:30 | 71.3        | .8        | 54.2        | 1.1       | 241.8       |           |             |           |             |
| 08:45 | 51.7        | 3.7       | 20.6        | 1.3       | 235.0       |           |             |           |             |
| 09:00 | 34.0        | 5.2       | 27.2        | 1.4       | 228.0       |           |             |           |             |
| 09:15 | 73.3        | 2.3       | 74.0        | 1.5       | 221.1       |           |             |           |             |
| 09:30 | 84.9        | 2.8       | 75.0        |           |             |           |             |           |             |
| 09:45 | 81.4        | 3.6       | 46.2        |           |             |           |             |           |             |
| 10:00 | 78.3        | 3.1       | 36.1        |           |             |           |             |           |             |
| 10:15 | 80.7        | 2.3       | 37.7        |           |             |           |             |           |             |
| 10:30 | 86.6        | 2.0       | 37.0        |           |             |           |             |           |             |
| 10:45 | 106.0       | 1.2       | 38.0        |           |             |           |             |           |             |
| 11:00 | 61.6        | .7        | 38.6        |           |             |           |             |           |             |
| 11:15 | 87.9        | .5        | 58.0        |           |             |           |             |           |             |
| 11:30 | 125.7       | .3        | 79.5        | 2.2       | 306.4       |           |             |           |             |
| 11:45 | 203.1       | .3        | 217.7       | 2.8       | 317.2       |           |             |           |             |
| 12:00 | 339.6       | 2.0       | 338.0       | 3.8       | 337.5       |           |             |           |             |
| 12:15 | 354.5       | 2.0       | 348.6       | 3.5       | 344.0       |           |             |           |             |



## Daily Summary Report

Site: ORNL Sodar

9/30/2018

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 |           |             |           |             |           |             |
| 00:15 |           |             |           |             |           |             |
| 00:30 |           |             |           |             |           |             |
| 00:45 |           |             |           |             |           |             |
| 01:00 |           |             |           |             |           |             |
| 01:15 |           |             |           |             |           |             |
| 01:30 |           |             |           |             |           |             |
| 01:45 |           |             |           |             |           |             |
| 02:00 |           |             |           |             |           |             |
| 02:15 |           |             |           |             |           |             |
| 02:30 |           |             |           |             |           |             |
| 02:45 |           |             |           |             |           |             |
| 03:00 |           |             |           |             |           |             |
| 03:15 |           |             |           |             |           |             |
| 03:30 |           |             |           |             |           |             |
| 03:45 |           |             |           |             |           |             |
| 04:00 |           |             |           |             |           |             |
| 04:15 |           |             |           |             |           |             |
| 04:30 | 11.1      | 214.5       | 13.3      | 219.7       |           |             |
| 04:45 | 11.9      | 216.4       |           |             |           |             |
| 05:00 |           |             |           |             |           |             |
| 05:15 |           |             |           |             |           |             |
| 05:30 |           |             |           |             |           |             |
| 05:45 |           |             |           |             |           |             |
| 06:00 |           |             |           |             |           |             |
| 06:15 |           |             |           |             |           |             |
| 06:30 |           |             |           |             |           |             |
| 06:45 |           |             |           |             |           |             |
| 07:00 |           |             |           |             |           |             |
| 07:15 |           |             |           |             |           |             |
| 07:30 |           |             |           |             |           |             |
| 07:45 |           |             |           |             |           |             |
| 08:00 |           |             |           |             |           |             |
| 08:15 |           |             |           |             |           |             |
| 08:30 |           |             |           |             |           |             |
| 08:45 |           |             |           |             |           |             |
| 09:00 |           |             |           |             |           |             |
| 09:15 |           |             |           |             |           |             |
| 09:30 |           |             |           |             |           |             |
| 09:45 |           |             |           |             |           |             |
| 10:00 |           |             |           |             |           |             |
| 10:15 |           |             |           |             |           |             |
| 10:30 |           |             |           |             |           |             |
| 10:45 |           |             |           |             |           |             |
| 11:00 |           |             |           |             |           |             |
| 11:15 |           |             |           |             |           |             |
| 11:30 |           |             |           |             |           |             |
| 11:45 |           |             |           |             |           |             |
| 12:00 |           |             |           |             |           |             |
| 12:15 |           |             |           |             |           |             |

|            | 22_WS700m | 23_WDir700m | 24_WS800m | 25_WDir800m | 26_WS900m | 27_WDir900m |
|------------|-----------|-------------|-----------|-------------|-----------|-------------|
| Hour       | M/SEC     | DEG         | M/SEC     | DEG         | M/SEC     | DEG         |
| 12:30      |           |             |           |             |           |             |
| 12:45      |           |             |           |             |           |             |
| 13:00      |           |             |           |             |           |             |
| 13:15      |           |             |           |             |           |             |
| 13:30      |           |             |           |             |           |             |
| 13:45      |           |             |           |             |           |             |
| 14:00      |           |             |           |             |           |             |
| 14:15      |           |             |           |             |           |             |
| 14:30      |           |             |           |             |           |             |
| 14:45      |           |             |           |             |           |             |
| 15:00      |           |             |           |             |           |             |
| 15:15      |           |             |           |             |           |             |
| 15:30      |           |             |           |             |           |             |
| 15:45      |           |             |           |             |           |             |
| 16:00      |           |             |           |             |           |             |
| 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        | 11.5      | 215.5       | 13.3      | 219.7       |           |             |
| Max        | 11.9      | 216.4       | 13.3      | 219.7       |           |             |
| Hr. of Max | 19        | 19          | 18        | 18          |           |             |
| Min        | 11.1      | 214.5       | 13.3      | 219.7       |           |             |
| Count      | 2         | 2           | 1         | 1           | 0         | 0           |
| Total      |           |             |           |             |           |             |