

## Daily Summary Report

Site: ORNL Sodar

11/20/2017

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 | .7        | 301.8       | 2.1       | 328.1       | 2.0       | 332.1       | 1.0       | 334.8       | .2        |
| 00:15 | .5        | 295.9       | 2.0       | 318.0       | 2.3       | 323.5       | 1.0       | 323.2       | .0        |
| 00:30 | .5        | 291.1       | 1.9       | 321.4       | 2.3       | 323.6       | 1.0       | 324.9       | .1        |
| 00:45 | .3        | 288.9       | 1.7       | 325.0       | 2.1       | 320.9       | 1.0       | 317.3       | .2        |
| 01:00 | .1        | 226.2       | 1.0       | 327.9       | 1.6       | 320.9       | 1.1       | 316.4       | .1        |
| 01:15 | .1        | 159.8       | .3        | 326.7       | 1.2       | 328.6       | 1.0       | 328.1       | .3        |
| 01:30 | .1        | 67.2        | .1        | 293.8       | .9        | 339.6       | .8        | 337.7       | .4        |
| 01:45 | .1        | 95.8        | .1        | 169.7       | .4        | 358.6       | .5        | 357.2       | .4        |
| 02:00 | .3        | 102.5       | .2        | 148.3       | .3        | 68.9        | .3        | 44.9        | .3        |
| 02:15 | .4        | 155.0       | .1        | 137.8       | .3        | 78.4        | .3        | 48.6        | .3        |
| 02:30 | .9        | 230.7       | .3        | 234.7       | .1        | 50.4        | .2        | 42.5        | .4        |
| 02:45 | .9        | 239.7       | .3        | 248.8       | .2        | 16.5        | .2        | 18.4        | .5        |
| 03:00 | .4        | 235.5       | .0        | 355.0       | .3        | 46.4        | .3        | 17.0        | .3        |
| 03:15 | .3        | 310.4       | .2        | 80.6        | .8        | 73.2        | 1.1       | 61.9        | 1.0       |
| 03:30 | .3        | 261.2       | .3        | 60.3        | .8        | 66.2        | 1.1       | 60.9        | .9        |
| 03:45 | .4        | 197.6       | .2        | 2.3         | .5        | 54.8        | .6        | 54.3        | .3        |
| 04:00 | .6        | 185.1       | .1        | 93.6        | .4        | 75.1        | .8        | 74.8        | .2        |
| 04:15 | .2        | 207.4       | .5        | 83.1        | .8        | 72.2        | .9        | 80.3        | .2        |
| 04:30 | .4        | 33.8        | .6        | 89.7        | 1.0       | 72.1        | .8        | 67.4        | .4        |
| 04:45 | .5        | 22.0        | .5        | 82.8        | 1.0       | 79.9        | 1.1       | 67.3        | .8        |
| 05:00 | .4        | 336.8       | .8        | 86.4        | 1.4       | 78.4        | 1.7       | 69.2        | .9        |
| 05:15 | .4        | 308.8       | 1.1       | 76.7        | 1.9       | 67.2        | 2.5       | 60.0        | 1.3       |
| 05:30 | 1.3       | 275.2       | 1.2       | 61.3        | 2.0       | 61.8        | 2.9       | 56.9        | 1.2       |
| 05:45 | 1.1       | 238.1       | 1.5       | 64.4        | 2.2       | 66.6        | 2.9       | 61.4        | 1.4       |
| 06:00 | .6        | 205.7       | 1.8       | 69.3        | 2.5       | 66.2        | 2.8       | 60.2        | 1.5       |
| 06:15 | .5        | 224.1       | 1.7       | 68.9        | 2.3       | 65.7        | 2.8       | 60.7        | 1.8       |
| 06:30 | .3        | 199.1       | 1.3       | 66.7        | 2.5       | 69.4        | 3.4       | 63.9        | 2.6       |
| 06:45 | .1        | 72.9        | 1.6       | 68.9        | 2.5       | 68.2        | 3.4       | 64.7        | 2.0       |
| 07:00 | .4        | 286.9       | 1.7       | 68.9        | 1.9       | 70.5        | 2.0       | 66.7        | 1.0       |
| 07:15 | 1.1       | 261.3       | 1.4       | 64.9        | 2.0       | 72.3        | 1.4       | 70.5        | 1.2       |
| 07:30 | 1.1       | 267.5       | 1.3       | 67.9        | 2.2       | 62.6        | 1.9       | 55.8        | 1.4       |
| 07:45 | .8        | 282.8       | 1.0       | 64.1        | 1.7       | 53.9        | 2.1       | 48.0        | 1.1       |
| 08:00 | 1.1       | 261.6       | .7        | 46.9        | 1.0       | 55.9        | 2.0       | 53.5        | 1.0       |
| 08:15 | 1.3       | 258.9       | .4        | 40.6        | 1.0       | 61.5        | 1.6       | 59.2        | .9        |
| 08:30 | 1.3       | 275.8       | .2        | 43.2        | 1.0       | 47.0        | 1.2       | 51.1        | .5        |
| 08:45 | 1.4       | 280.5       | .5        | 13.7        | 1.1       | 34.6        | 1.4       | 39.3        | .4        |
| 09:00 | .9        | 280.4       | 1.0       | 9.5         | 1.5       | 38.7        | 1.8       | 47.5        | .5        |
| 09:15 | .3        | 300.2       | 1.1       | .7          | 1.7       | 37.1        | 1.9       | 53.1        | .7        |
| 09:30 | .2        | 108.1       | 1.1       | 354.8       | 1.6       | 31.0        | 2.0       | 50.6        | 1.3       |
| 09:45 | .6        | 135.9       | .8        | 1.7         | 1.4       | 38.1        | 1.9       | 49.7        | 1.6       |
| 10:00 | .4        | 149.7       | .7        | 62.7        | 1.6       | 57.3        | 1.6       | 42.9        | 1.5       |
| 10:15 | .5        | 128.9       | 1.2       | 78.2        | 1.7       | 71.0        | 1.5       | 50.7        | 1.4       |
| 10:30 | 2.1       | 89.4        | 1.6       | 83.8        | 2.0       | 76.9        | 2.0       | 67.5        | 1.5       |
| 10:45 | 2.3       | 85.6        | 1.8       | 93.2        | 1.9       | 78.1        | 1.9       | 74.2        | 1.3       |
| 11:00 | .7        | 101.5       | 1.6       | 120.3       | 1.2       | 96.9        | 1.3       | 99.7        | .8        |
| 11:15 | .3        | 131.2       | 1.1       | 123.3       | .9        | 117.1       | 1.0       | 138.6       | .9        |
| 11:30 | .6        | 106.6       | .7        | 114.6       | 1.0       | 140.9       | .8        | 147.6       | .9        |
| 11:45 | .8        | 78.9        | 1.4       | 92.0        | 1.0       | 98.3        | .8        | 97.4        | .8        |
| 12:00 | .9        | 60.9        | 1.3       | 79.5        | .8        | 70.9        | .8        | 78.6        | .7        |
| 12:15 | .9        | 78.4        | 1.0       | 75.8        | 1.0       | 77.6        | 1.0       | 65.2        | .8        |



## Daily Summary Report

Site: ORNL Sodar

11/20/2017

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 | 305.4       | .3        | 277.6       | .1        | 286.6       | .5        | 345.7       | 1.3       | 7.3         |
| 00:15 | 184.2       | .3        | 268.7       | .2        | 171.8       | .5        | 328.5       | 1.5       | 6.1         |
| 00:30 | 321.7       | .1        | 270.4       | .2        | 219.8       | .6        | 147.7       | 1.9       | 334.5       |
| 00:45 | 331.4       | .0        | 325.7       | .1        | 283.3       | .7        | 84.5        | 3.2       | 346.5       |
| 01:00 | 357.0       | .1        | 10.4        | .2        | 32.7        | .7        | 34.5        |           |             |
| 01:15 | 339.0       | .1        | 342.6       | .1        | 110.7       | 1.2       | 285.0       |           |             |
| 01:30 | 341.2       | .2        | 340.6       | .1        | 171.2       | 1.3       | 276.2       |           |             |
| 01:45 | 358.6       | .1        | 37.9        | .1        | 227.7       | 1.6       | 268.3       |           |             |
| 02:00 | 32.0        | .2        | 67.9        | .1        | 215.0       | .5        | 228.7       |           |             |
| 02:15 | 85.7        | .3        | 68.7        | .2        | 359.0       | .6        | 125.2       |           |             |
| 02:30 | 52.4        | .3        | 74.0        | .2        | 29.9        | 1.0       | 107.6       |           |             |
| 02:45 | 27.7        | .3        | 42.9        | .8        | 33.9        | .8        | 65.7        |           |             |
| 03:00 | 53.6        | .5        | 25.5        | 1.1       | 21.6        | .7        | 33.9        |           |             |
| 03:15 | 50.9        | .7        | 26.4        | .4        | 61.7        | 1.3       | 125.0       |           |             |
| 03:30 | 43.2        | .6        | 21.4        | .3        | 64.1        |           |             |           |             |
| 03:45 | 69.7        | .2        | 40.0        | .4        | 62.3        |           |             |           |             |
| 04:00 | 74.9        | .1        | 69.7        | .5        | 160.8       |           |             |           |             |
| 04:15 | 50.3        | .1        | 30.3        | .2        | 222.6       | .9        | 273.3       |           |             |
| 04:30 | 75.5        | .1        | 127.6       | .4        | 324.4       | 2.5       | 280.3       |           |             |
| 04:45 | 83.2        | .2        | 125.5       | .1        | 21.4        | 1.2       | 100.6       |           |             |
| 05:00 | 65.6        | .2        | 63.6        | .2        | 108.7       | 2.0       | 107.2       |           |             |
| 05:15 | 50.6        | .4        | 20.2        | .4        | 55.9        | .7        | 84.6        |           |             |
| 05:30 | 60.9        | .4        | 72.7        | 1.4       | 77.0        |           |             |           |             |
| 05:45 | 79.2        | 1.1       | 82.9        |           |             |           |             |           |             |
| 06:00 | 67.1        | 1.3       | 78.2        |           |             |           |             |           |             |
| 06:15 | 55.5        | 1.6       | 83.7        |           |             |           |             |           |             |
| 06:30 | 56.0        | 2.3       | 85.4        |           |             |           |             |           |             |
| 06:45 | 58.8        | 2.1       | 80.5        | 4.3       | 105.2       |           |             |           |             |
| 07:00 | 78.7        | 1.3       | 70.4        | 3.9       | 71.1        |           |             |           |             |
| 07:15 | 64.4        | 1.2       | 84.7        |           |             |           |             |           |             |
| 07:30 | 52.6        | 1.6       | 94.7        |           |             |           |             |           |             |
| 07:45 | 50.5        | 1.3       | 97.0        |           |             |           |             |           |             |
| 08:00 | 56.7        | 1.0       | 88.1        |           |             |           |             |           |             |
| 08:15 | 55.6        | .8        | 88.1        |           |             |           |             |           |             |
| 08:30 | 46.9        | .6        | 58.5        |           |             |           |             |           |             |
| 08:45 | 40.0        | .4        | 56.1        |           |             |           |             |           |             |
| 09:00 | 51.5        | 1.6       | 90.9        |           |             |           |             |           |             |
| 09:15 | 61.2        | 1.1       | 78.2        |           |             |           |             |           |             |
| 09:30 | 73.4        | .3        | 35.7        | 1.0       | 58.2        |           |             |           |             |
| 09:45 | 69.0        | 1.0       | 81.1        | 1.6       | 67.8        |           |             |           |             |
| 10:00 | 57.7        | 1.4       | 62.4        | 1.9       | 58.7        |           |             |           |             |
| 10:15 | 51.9        | 1.3       | 50.6        | 1.6       | 47.2        |           |             |           |             |
| 10:30 | 54.1        | 1.1       | 56.7        | 1.5       | 44.8        |           |             |           |             |
| 10:45 | 60.7        | 1.1       | 54.0        | 1.7       | 50.2        |           |             |           |             |
| 11:00 | 98.4        | 1.1       | 75.5        | 1.6       | 72.7        | 1.4       | 102.5       |           |             |
| 11:15 | 151.2       | .8        | 124.8       | 1.5       | 98.9        | 1.2       | 80.0        |           |             |
| 11:30 | 144.7       | 1.3       | 132.4       | 1.2       | 110.3       | 1.1       | 60.0        |           |             |
| 11:45 | 115.7       | 1.3       | 113.8       | 1.0       | 50.7        | .9        | 40.2        |           |             |
| 12:00 | 71.7        | 1.4       | 45.8        | 1.5       | 43.4        | 1.2       | 24.2        |           |             |
| 12:15 | 58.9        | 1.4       | 34.3        | 1.4       | 39.8        | 1.4       | 14.2        |           |             |



## Daily Summary Report

Site: ORNL Sodar

11/20/2017

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 | 1.5       | 51.5        |           |             |           |             |
| 00:15 | 1.2       | 337.2       |           |             |           |             |
| 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 |           |             |           |             |           |             |
| 04:45 |           |             |           |             |           |             |
| 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      | 19.0      | 200.8       |           |             |           |             |
| 23:15      | 18.0      | 200.7       |           |             |           |             |
| 23:30      | 17.8      | 204.0       |           |             |           |             |
| 23:45      | 17.7      | 208.9       |           |             |           |             |
| Avg        | 12.5      | 200.5       |           |             |           |             |
| Max        | 19.0      | 337.2       |           |             |           |             |
| Hr. of Max | 92        | 01          |           |             |           |             |
| Min        | 1.2       | 51.5        |           |             |           |             |
| Count      | 6         | 6           | 0         | 0           | 0         | 0           |
| Total      |           |             |           |             |           |             |