

## Daily Summary Report

Site: ORNL Sodar

4/11/2019

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 | 1.8       | 84.6        | 3.0       | 103.1       | 5.2       | 121.3       | 6.0       | 121.9       | 2.3       |
| 00:15 | 1.6       | 100.7       | 3.0       | 103.6       | 5.0       | 121.8       | 6.2       | 125.7       | 3.0       |
| 00:30 | 1.4       | 119.3       | 2.3       | 118.7       | 4.2       | 129.8       | 5.9       | 140.4       | 5.7       |
| 00:45 | 1.4       | 100.6       | 2.1       | 129.8       | 3.7       | 137.4       | 5.6       | 146.7       | 7.5       |
| 01:00 | 1.5       | 113.7       | 2.1       | 133.3       | 3.7       | 144.0       | 5.4       | 151.4       | 7.2       |
| 01:15 | 1.0       | 108.3       | 1.7       | 142.7       | 3.2       | 149.7       | 5.3       | 155.8       | 7.0       |
| 01:30 | .6        | 58.4        | 1.1       | 158.1       | 2.3       | 150.9       | 4.6       | 154.4       | 6.6       |
| 01:45 | .5        | 26.1        | 1.1       | 142.8       | 1.6       | 143.2       | 3.7       | 149.7       | 5.8       |
| 02:00 | .3        | 19.7        | .9        | 107.1       | 1.3       | 140.0       | 3.2       | 148.8       | 6.4       |
| 02:15 | .2        | 73.1        | 1.0       | 107.9       | 1.4       | 141.4       | 2.9       | 151.3       | 6.2       |
| 02:30 | .6        | 163.7       | 1.6       | 137.3       | 1.6       | 149.4       | 3.3       | 158.9       | 6.6       |
| 02:45 | .7        | 150.4       | 1.9       | 147.7       | 2.5       | 161.1       | 4.8       | 164.0       | 7.9       |
| 03:00 | 1.1       | 147.9       | 2.1       | 146.6       | 3.4       | 160.7       | 5.8       | 163.1       | 8.2       |
| 03:15 | 1.3       | 119.3       | 2.3       | 140.3       | 3.6       | 153.6       | 5.7       | 158.4       | 8.2       |
| 03:30 | 1.0       | 115.0       | 2.2       | 139.2       | 3.4       | 150.5       | 5.3       | 155.0       | 8.1       |
| 03:45 | 1.5       | 133.0       | 2.2       | 137.5       | 3.3       | 154.1       | 5.4       | 159.1       | 8.4       |
| 04:00 | 1.5       | 159.0       | 2.3       | 143.2       | 3.7       | 160.8       | 6.1       | 166.2       | 9.1       |
| 04:15 | 1.6       | 149.2       | 2.0       | 153.2       | 3.7       | 165.0       | 6.0       | 169.5       | 8.8       |
| 04:30 | 1.1       | 151.2       | 1.8       | 162.0       | 3.4       | 169.1       | 5.4       | 171.4       | 8.0       |
| 04:45 | .7        | 178.9       | 1.5       | 176.9       | 3.0       | 179.0       | 5.2       | 176.3       | 7.9       |
| 05:00 | .8        | 194.6       | 1.6       | 191.5       | 3.0       | 183.8       | 5.2       | 179.1       | 7.9       |
| 05:15 | .5        | 211.3       | 1.5       | 199.1       | 3.0       | 184.3       | 4.8       | 179.3       | 6.1       |
| 05:30 | 1.1       | 189.3       | 1.5       | 205.6       | 2.8       | 186.4       | 4.3       | 179.2       | 6.6       |
| 05:45 | 2.8       | 185.8       | 2.6       | 197.0       | 2.8       | 189.1       | 4.7       | 182.9       | 7.4       |
| 06:00 | 1.6       | 186.0       | 2.8       | 193.8       | 2.8       | 193.3       | 4.7       | 190.8       | 7.1       |
| 06:15 | 1.1       | 166.1       | 1.4       | 196.7       | 2.4       | 190.8       | 3.9       | 193.8       | 6.2       |
| 06:30 | .4        | 105.9       | .6        | 185.1       | 1.5       | 189.7       | 2.7       | 202.2       | 5.4       |
| 06:45 | .6        | 76.4        | .6        | 196.1       | 1.3       | 212.0       | 2.6       | 221.4       | 5.4       |
| 07:00 | .7        | 93.6        | .7        | 214.9       | 1.2       | 210.7       | 2.7       | 221.8       | 5.0       |
| 07:15 | .4        | 95.7        | .5        | 201.3       | .9        | 221.2       | 2.7       | 229.9       | 4.7       |
| 07:30 | .4        | 83.8        | .5        | 137.3       | 1.2       | 236.3       | 2.7       | 233.0       | 4.6       |
| 07:45 | .5        | 86.0        | .7        | 120.8       | 1.4       | 233.5       | 2.8       | 226.1       | 5.1       |
| 08:00 | .3        | 114.4       | .7        | 135.2       | 1.5       | 228.7       | 3.2       | 223.8       | 5.5       |
| 08:15 | .2        | 142.6       | .8        | 130.5       | 1.7       | 220.7       | 3.4       | 219.4       | 5.9       |
| 08:30 | .3        | 140.9       | 1.8       | 170.6       | 1.9       | 204.9       | 3.6       | 203.2       | 6.7       |
| 08:45 | 1.0       | 150.3       | 2.5       | 173.9       | 2.2       | 184.0       | 3.9       | 186.7       | 6.9       |
| 09:00 | .9        | 136.1       | 1.3       | 157.2       | 2.2       | 176.8       | 3.8       | 180.0       | 7.1       |
| 09:15 | .4        | 101.9       | 1.3       | 152.8       | 2.3       | 176.3       | 4.0       | 179.6       | 7.4       |
| 09:30 | .4        | 177.3       | 1.4       | 171.1       | 2.8       | 178.0       | 4.6       | 180.5       | 7.7       |
| 09:45 | 1.3       | 185.1       | 1.4       | 192.0       | 3.4       | 184.7       | 5.1       | 183.7       | 7.7       |
| 10:00 | 2.6       | 183.0       | 1.8       | 187.5       | 3.6       | 187.6       | 5.0       | 186.9       | 7.0       |
| 10:15 | 1.3       | 195.8       | 2.3       | 190.0       | 3.4       | 189.3       | 4.8       | 190.5       | 6.4       |
| 10:30 | 1.1       | 187.1       | 2.3       | 190.7       | 3.4       | 198.4       | 5.3       | 196.2       | 6.1       |
| 10:45 | .8        | 178.8       | 2.1       | 196.0       | 3.3       | 197.7       | 5.5       | 194.8       | 5.4       |
| 11:00 | .8        | 240.6       | 1.5       | 231.2       | 2.9       | 198.0       | 5.0       | 189.3       | 4.6       |
| 11:15 | 1.0       | 220.2       | 2.7       | 200.5       | 3.4       | 187.6       | 5.3       | 180.7       | 5.2       |
| 11:30 | 1.6       | 184.7       | 8.4       | 184.0       | 6.0       | 181.1       | 6.6       | 180.8       | 8.2       |
| 11:45 | 4.8       | 185.6       | 8.5       | 197.8       | 8.4       | 194.9       | 9.6       | 197.5       | 10.8      |
| 12:00 | 5.5       | 187.6       | 9.1       | 204.2       | 10.0      | 197.5       | 10.4      | 203.8       | 11.5      |
| 12:15 | 5.2       | 185.2       | 9.0       | 194.9       | 9.5       | 194.1       | 10.6      | 198.7       | 11.1      |
| 12:30 | 6.3       | 179.8       | 8.8       | 185.4       | 10.0      | 183.7       | 11.0      | 185.3       | 10.1      |



## Daily Summary Report

Site: ORNL Sodar

4/11/2019

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 | 121.0       | 1.2       | 117.6       | .9        | 177.0       |           |             |           |             |
| 00:15 | 123.3       | 1.2       | 120.6       | .9        | 175.2       |           |             |           |             |
| 00:30 | 156.9       | 5.0       | 145.0       | 2.0       | 176.0       |           |             |           |             |
| 00:45 | 158.3       | 9.3       | 170.1       | 4.0       | 177.0       |           |             |           |             |
| 01:00 | 159.2       | 7.7       | 167.0       | 6.0       | 177.0       |           |             |           |             |
| 01:15 | 164.3       | 6.2       | 172.5       | 8.0       | 178.0       |           |             |           |             |
| 01:30 | 167.5       | 9.3       | 177.3       | 9.2       | 178.4       |           |             |           |             |
| 01:45 | 165.3       | 8.7       | 178.3       | 8.9       | 178.5       |           |             |           |             |
| 02:00 | 165.6       | 8.7       | 176.0       | 9.5       | 179.1       |           |             |           |             |
| 02:15 | 164.3       | 9.1       | 172.2       | 9.6       | 179.8       |           |             |           |             |
| 02:30 | 167.2       | 9.3       | 174.3       | 11.2      | 179.4       | 12.0      | 177.2       |           |             |
| 02:45 | 172.1       | 9.6       | 176.5       | 11.5      | 179.2       | 11.0      | 178.0       |           |             |
| 03:00 | 172.3       | 10.4      | 176.8       | 10.2      | 180.4       | 9.5       | 179.6       |           |             |
| 03:15 | 169.6       | 11.1      | 176.3       | 11.0      | 180.6       | 9.6       | 181.1       |           |             |
| 03:30 | 166.8       | 10.8      | 175.3       | 11.2      | 182.9       | 9.5       | 182.0       |           |             |
| 03:45 | 169.1       | 10.8      | 176.2       | 12.0      | 181.0       | 9.3       | 183.0       |           |             |
| 04:00 | 174.8       | 11.2      | 177.9       | 12.1      | 183.3       | 9.0       | 184.0       |           |             |
| 04:15 | 177.1       | 11.6      | 177.6       | 11.8      | 182.4       | 9.0       | 185.0       |           |             |
| 04:30 | 178.0       | 10.8      | 177.4       | 11.1      | 180.0       | 8.8       | 186.0       |           |             |
| 04:45 | 179.7       | 9.7       | 180.2       | 10.3      | 180.0       | 8.5       | 186.0       |           |             |
| 05:00 | 179.5       | 10.1      | 180.9       | 11.3      | 180.9       | 8.3       | 187.0       |           |             |
| 05:15 | 179.7       | 10.0      | 181.4       | 13.0      | 181.3       | 8.2       | 187.4       |           |             |
| 05:30 | 181.1       | 9.7       | 184.6       | 12.1      | 180.4       | 8.8       | 194.5       |           |             |
| 05:45 | 188.1       | 10.1      | 189.2       | 12.3      | 188.1       | 12.5      | 197.4       |           |             |
| 06:00 | 193.5       | 9.9       | 191.1       | 13.2      | 192.1       | 12.6      | 198.0       |           |             |
| 06:15 | 194.7       | 8.8       | 191.7       | 13.2      | 187.3       | 12.6      | 199.0       |           |             |
| 06:30 | 199.4       | 8.0       | 190.4       | 12.4      | 188.1       | 12.6      | 200.0       |           |             |
| 06:45 | 204.7       | 8.2       | 192.7       | 11.7      | 193.6       | 12.6      | 201.0       |           |             |
| 07:00 | 211.5       | 8.2       | 202.0       | 12.5      | 198.0       | 12.6      | 202.0       |           |             |
| 07:15 | 219.0       | 7.3       | 205.7       | 11.4      | 197.4       | 12.6      | 203.0       |           |             |
| 07:30 | 215.6       | 7.0       | 200.2       | 10.8      | 194.7       | 12.6      | 204.0       |           |             |
| 07:45 | 206.5       | 7.8       | 195.0       | 11.8      | 190.9       | 12.6      | 205.0       |           |             |
| 08:00 | 203.9       | 8.7       | 192.9       | 12.2      | 191.5       | 12.6      | 206.0       |           |             |
| 08:15 | 201.3       | 8.9       | 193.9       | 12.0      | 189.4       | 12.6      | 207.0       |           |             |
| 08:30 | 194.5       | 9.6       | 191.5       | 11.7      | 186.1       | 12.6      | 208.0       |           |             |
| 08:45 | 188.1       | 10.0      | 187.2       | 12.1      | 183.7       | 12.6      | 209.0       |           |             |
| 09:00 | 183.5       | 9.4       | 182.9       | 11.5      | 184.0       | 12.6      | 210.0       |           |             |
| 09:15 | 183.2       | 10.4      | 181.2       | 11.0      | 185.0       | 12.6      | 212.0       |           |             |
| 09:30 | 183.4       | 10.5      | 184.0       | 10.5      | 186.0       | 12.6      | 213.0       |           |             |
| 09:45 | 184.9       | 9.7       | 185.0       | 10.0      | 186.0       | 12.6      | 214.0       |           |             |
| 10:00 | 189.0       | 8.5       | 187.7       | 9.7       | 186.3       | 12.6      | 216.0       |           |             |
| 10:15 | 191.9       | 8.4       | 191.3       | 10.1      | 193.5       | 12.6      | 217.0       |           |             |
| 10:30 | 195.3       | 7.9       | 193.2       | 10.1      | 198.7       | 12.8      | 218.1       |           |             |
| 10:45 | 193.6       | 6.9       | 189.7       | 10.0      | 196.0       |           |             |           |             |
| 11:00 | 191.2       | 7.0       | 188.0       | 10.5      | 194.0       |           |             |           |             |
| 11:15 | 192.6       | 6.2       | 188.8       | 11.0      | 192.0       |           |             |           |             |
| 11:30 | 188.0       | 8.0       | 185.0       | 11.5      | 190.0       |           |             |           |             |
| 11:45 | 192.9       | 10.9      | 181.9       | 12.0      | 188.0       |           |             |           |             |
| 12:00 | 198.8       | 11.3      | 199.5       | 12.5      | 186.0       |           |             |           |             |
| 12:15 | 194.3       | 11.3      | 198.1       | 13.0      | 184.0       |           |             |           |             |
| 12:30 | 183.0       | 11.3      | 184.7       | 13.5      | 182.0       |           |             |           |             |



### Daily Summary Report

Site: ORNL Sodar

4/11/2019

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 |           |             |           |             |           |             |
| 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 |           |             |           |             |           |             |
| 12:30 |           |             |           |             |           |             |

|            | 22_WS700m | 23_WDir700m | 24_WS800m | 25_WDir800m | 26_WS900m | 27_WDir900m |
|------------|-----------|-------------|-----------|-------------|-----------|-------------|
| Hour       | M/SEC     | DEG         | M/SEC     | DEG         | M/SEC     | DEG         |
| 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        |           |             |           |             |           |             |
| Max        |           |             |           |             |           |             |
| Hr. of Max |           |             |           |             |           |             |
| Min        |           |             |           |             |           |             |
| Count      | 0         | 0           | 0         | 0           | 0         | 0           |
| Total      |           |             |           |             |           |             |