

## Daily Summary Report

Site: ORNL Sodar

1/24/2019

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 |           |             |           |             |           |             |           |             | 7.3       |
| 00:15 |           |             |           |             |           |             |           |             | 7.2       |
| 00:30 |           |             |           |             |           |             |           |             | 7.0       |
| 00:45 |           |             |           |             |           |             |           |             | 7.0       |
| 01:00 |           |             |           |             |           |             |           |             | 6.8       |
| 01:15 |           |             |           |             |           |             |           |             | 6.8       |
| 01:30 |           |             |           |             |           |             |           |             | 6.7       |
| 01:45 |           |             |           |             |           |             |           |             | 6.5       |
| 02:00 |           |             |           |             |           |             |           |             | 6.5       |
| 02:15 |           |             |           |             |           |             |           |             | 6.3       |
| 02:30 |           |             |           |             |           |             |           |             | 6.3       |
| 02:45 |           |             |           |             |           |             |           |             | 6.2       |
| 03:00 |           |             |           |             |           |             |           |             | 6.0       |
| 03:15 |           |             |           |             |           |             |           |             | 6.0       |
| 03:30 | .3        | 344.3       | .4        | 291.0       | 2.6       | 295.8       | 3.2       | 292.1       | 5.8       |
| 03:45 | .3        | 15.0        | .1        | 303.4       | 1.7       | 301.7       | 3.2       | 297.3       | 6.2       |
| 04:00 | .2        | 4.2         | .2        | 316.1       | 2.9       | 288.2       | 5.1       | 292.6       | 7.5       |
| 04:15 | .9        | 278.3       | .4        | 300.0       | 5.9       | 280.1       | 6.7       | 286.4       | 8.7       |
| 04:30 | .3        | 6.2         | .7        | 280.0       | 4.4       | 283.4       | 6.4       | 286.1       | 9.1       |
| 04:45 | 2.0       | 277.0       | 1.5       | 291.0       | 4.2       | 282.2       | 6.8       | 285.8       | 8.9       |
| 05:00 | .2        | 248.0       | 2.1       | 269.9       | 5.1       | 276.7       | 7.6       | 280.0       | 9.4       |
| 05:15 | 1.0       | 86.2        | 1.8       | 277.8       | 5.1       | 275.4       | 6.8       | 277.9       | 10.6      |
| 05:30 | 2.9       | 87.3        | 3.0       | 275.3       | 7.2       | 277.2       | 8.5       | 277.7       | 10.3      |
| 05:45 | 2.5       | 86.6        | 2.8       | 268.9       | 4.5       | 279.1       | 7.9       | 275.5       | 9.4       |
| 06:00 | .2        | 36.7        | 1.1       | 258.4       | .6        | 329.5       | 3.0       | 322.0       | 6.0       |
| 06:15 | .5        | 61.1        | 1.1       | 265.6       | 2.7       | 272.2       | 7.0       | 273.1       | 10.0      |
| 06:30 | .5        | 53.0        | 1.0       | 254.3       | 2.9       | 268.9       | 6.2       | 271.0       | 9.5       |
| 06:45 | .4        | 53.7        | .7        | 243.6       | .9        | 278.7       | .9        | 290.3       | 1.3       |
| 07:00 | .4        | 87.0        | .4        | 264.5       | .8        | 288.5       | 1.3       | 288.4       | 1.5       |
| 07:15 | .3        | 73.0        | .6        | 299.4       | .7        | 296.4       | 3.5       | 279.7       | 1.2       |
| 07:30 | .2        | 59.5        | .5        | 300.5       | .3        | 342.0       | 1.0       | 294.2       | .9        |
| 07:45 | .1        | 61.3        | .2        | 319.7       | .4        | 58.5        | .5        | 97.3        | .2        |
| 08:00 | .3        | 44.2        | .2        | 342.5       | .5        | 308.4       | .3        | 81.1        | .4        |
| 08:15 | .5        | 51.7        | .4        | 276.3       | .8        | 297.5       | .6        | 310.4       | .5        |
| 08:30 | .4        | 79.7        | .4        | 291.0       | .4        | 341.1       | .5        | 304.6       | 1.1       |
| 08:45 | .4        | 85.0        | .5        | 304.9       | .4        | 321.1       | 2.7       | 271.0       | 3.7       |
| 09:00 | .5        | 74.9        | .5        | 271.7       | .7        | 304.6       | 3.2       | 273.1       | 2.8       |
| 09:15 | .6        | 77.7        | .4        | 242.6       | .7        | 303.4       | .5        | 300.7       | .8        |
| 09:30 | .2        | 125.2       | .6        | 271.6       | .7        | 300.9       | .5        | 337.8       | .4        |
| 09:45 | .4        | 221.7       | .6        | 289.0       | .8        | 303.9       | .8        | 302.1       | .4        |
| 10:00 | .6        | 241.8       | .5        | 291.7       | .8        | 294.9       | 1.0       | 289.6       | .4        |
| 10:15 | .7        | 250.0       | .6        | 278.4       | .9        | 301.1       | 1.3       | 308.7       | .9        |
| 10:30 | .6        | 261.1       | .6        | 277.6       | 1.1       | 298.7       | 1.7       | 304.0       | 1.1       |
| 10:45 | .6        | 271.3       | .4        | 300.2       | 1.0       | 291.6       | 1.7       | 295.2       | 1.1       |
| 11:00 | .6        | 265.7       | .4        | 307.7       | 1.3       | 288.3       | 2.0       | 286.4       | 1.0       |
| 11:15 | .7        | 259.5       | .6        | 285.7       | 1.4       | 296.6       | 2.1       | 286.5       | .7        |
| 11:30 | .7        | 261.6       | .8        | 268.1       | 1.0       | 308.2       | 1.4       | 296.6       | 1.0       |
| 11:45 | .7        | 262.0       | .6        | 262.3       | .9        | 305.1       | 1.1       | 297.3       | .9        |
| 12:00 | .5        | 256.9       | .6        | 281.0       | .8        | 302.2       | 1.1       | 280.4       | .6        |
| 12:15 | .4        | 250.2       | 1.3       | 289.0       | 1.1       | 300.7       | 1.2       | 282.6       | .9        |
| 12:30 | .5        | 252.4       | .9        | 283.0       | 1.2       | 299.5       | 1.2       | 291.3       | .9        |



## Daily Summary Report

Site: ORNL Sodar

1/24/2019

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 | 283.4       | 11.3      | 267.1       | 13.8      | 258.0       | 14.5      | 257.9       | 13.5      | 211.0       |
| 00:15 | 285.4       | 11.3      | 269.3       | 13.8      | 260.5       | 14.5      | 261.4       | 13.5      | 210.0       |
| 00:30 | 287.4       | 11.3      | 271.5       | 13.8      | 263.0       | 15.0      | 264.9       | 13.5      | 209.0       |
| 00:45 | 289.4       | 11.3      | 273.7       | 13.8      | 265.5       | 15.0      | 268.4       | 13.5      | 208.0       |
| 01:00 | 291.4       | 11.3      | 275.9       | 13.8      | 268.0       | 15.0      | 270.9       | 13.5      | 207.0       |
| 01:15 | 293.4       | 11.3      | 278.1       | 13.8      | 270.5       | 15.0      | 273.4       | 13.5      | 206.0       |
| 01:30 | 295.4       | 11.3      | 280.3       | 13.8      | 273.0       | 15.0      | 276.9       | 13.5      | 205.0       |
| 01:45 | 296.4       | 11.3      | 282.5       | 13.8      | 275.5       | 15.0      | 280.4       | 13.5      | 204.0       |
| 02:00 | 298.4       | 11.3      | 284.7       | 13.8      | 278.0       | 15.5      | 283.9       | 13.5      | 203.0       |
| 02:15 | 301.4       | 11.3      | 286.9       | 13.8      | 280.5       | 15.5      | 287.4       | 13.5      | 202.0       |
| 02:30 | 303.4       | 11.3      | 289.1       | 13.8      | 283.0       | 15.5      | 289.9       | 13.5      | 201.0       |
| 02:45 | 305.4       | 11.3      | 291.3       | 13.8      | 285.5       | 15.5      | 292.4       | 13.5      | 200.0       |
| 03:00 | 307.4       | 11.3      | 293.5       | 13.8      | 288.0       | 15.5      | 294.9       | 13.5      | 199.0       |
| 03:15 | 308.0       | 11.3      | 295.7       | 13.8      | 290.5       | 15.5      | 297.4       | 13.5      | 198.0       |
| 03:30 | 302.8       | 11.6      | 298.2       | 14.1      | 303.7       | 15.7      | 304.8       | 14.2      | 299.1       |
| 03:45 | 307.0       | 10.4      | 304.6       | 13.9      | 310.3       | 15.8      | 307.2       | 14.7      | 297.4       |
| 04:00 | 301.3       | 9.6       | 306.8       | 13.6      | 312.3       | 15.2      | 306.5       | 14.6      | 295.7       |
| 04:15 | 292.8       | 10.3      | 301.2       | 13.7      | 309.3       | 15.7      | 309.2       | 15.2      | 298.8       |
| 04:30 | 291.0       | 10.8      | 299.5       | 13.6      | 308.3       | 16.2      | 312.6       | 16.2      | 305.6       |
| 04:45 | 295.7       | 11.2      | 301.1       | 13.7      | 308.3       | 16.1      | 312.9       | 16.1      | 310.6       |
| 05:00 | 291.6       | 11.2      | 299.3       | 13.7      | 305.1       | 15.4      | 311.9       | 15.7      | 311.5       |
| 05:15 | 285.6       | 11.0      | 295.1       | 13.2      | 304.0       | 14.4      | 311.0       | 15.0      | 310.7       |
| 05:30 | 285.4       | 10.8      | 296.7       | 13.4      | 302.8       | 13.8      | 312.6       | 14.2      | 314.0       |
| 05:45 | 282.2       | 10.3      | 302.9       | 13.5      | 301.1       | 13.6      | 311.0       | 13.4      | 319.3       |
| 06:00 | 308.0       | 9.2       | 285.6       | 15.0      | 302.8       | 13.7      | 305.9       | 12.1      | 314.8       |
| 06:15 | 272.0       | 10.8      | 274.7       | 13.9      | 300.8       | 12.6      | 301.0       | 12.8      | 307.7       |
| 06:30 | 273.0       | 11.0      | 277.0       | 13.0      | 292.0       | 12.2      | 297.0       | 12.6      | 306.5       |
| 06:45 | 298.5       | 2.2       | 322.9       | 9.9       | 298.4       | 13.2      | 303.6       | 13.0      | 307.4       |
| 07:00 | 296.4       | 2.5       | 331.9       | 9.0       | 290.8       | 12.2      | 304.0       | 11.4      | 312.6       |
| 07:15 | 297.0       | 1.5       | 350.0       | 8.7       | 288.0       | 11.8      | 303.5       |           |             |
| 07:30 | 297.6       | 1.0       | 15.6        | 8.4       | 288.0       | 11.5      | 303.0       |           |             |
| 07:45 | 57.9        | .6        | 313.4       | 8.1       | 288.0       | 11.2      | 302.5       |           |             |
| 08:00 | 20.0        | 1.1       | 21.0        | 7.8       | 288.0       | 10.8      | 302.0       |           |             |
| 08:15 | 12.8        | 1.3       | 22.0        | 7.5       | 288.0       | 10.4      | 301.5       |           |             |
| 08:30 | 278.2       | 3.0       | 330.0       | 7.2       | 288.0       | 10.1      | 301.0       |           |             |
| 08:45 | 273.6       | 4.2       | 280.0       | 6.9       | 288.0       | 9.8       | 300.5       |           |             |
| 09:00 | 278.0       | 2.6       | 285.0       | 6.6       | 288.0       | 9.4       | 300.0       |           |             |
| 09:15 | 282.3       | .7        | 50.5        | 6.3       | 288.0       | 9.1       | 299.5       |           |             |
| 09:30 | 322.0       | .1        | 26.0        | 6.0       | 288.0       | 8.7       | 299.0       |           |             |
| 09:45 | 354.7       | .8        | 286.7       | 5.7       | 288.0       | 8.3       | 298.5       |           |             |
| 10:00 | 312.9       | 1.2       | 279.5       | 5.4       | 288.0       | 8.0       | 298.0       |           |             |
| 10:15 | 306.0       | 1.0       | 301.1       | 5.1       | 288.0       | 7.7       | 297.5       |           |             |
| 10:30 | 302.0       | 1.1       | 321.6       | 4.8       | 288.0       | 7.3       | 297.0       |           |             |
| 10:45 | 289.6       | 1.4       | 311.7       | 4.4       | 288.0       | 7.0       | 296.5       |           |             |
| 11:00 | 289.6       | 1.3       | 303.9       | 4.0       | 288.0       | 6.6       | 296.0       |           |             |
| 11:15 | 296.5       | .9        | 313.1       | 3.2       | 286.7       | 6.3       | 295.5       |           |             |
| 11:30 | 299.8       | .7        | 343.5       | 1.9       | 340.9       | 5.9       | 295.0       |           |             |
| 11:45 | 300.6       | .4        | 336.9       | 1.4       | 22.7        | 5.5       | 294.5       |           |             |
| 12:00 | 288.7       | .6        | 315.1       | 1.3       | 316.5       | 5.2       | 294.0       |           |             |
| 12:15 | 279.0       | 1.1       | 321.8       | 2.8       | 304.2       | 4.8       | 293.5       |           |             |
| 12:30 | 286.7       | 1.1       | 291.3       | 5.4       | 295.9       | 5.9       | 290.6       |           |             |



## Daily Summary Report

Site: ORNL Sodar

1/24/2019

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 | 12.5      | 255.5       | 13.8      | 252.5       |           |             |
| 00:15 | 12.5      | 258.5       | 13.7      | 255.0       |           |             |
| 00:30 | 12.5      | 261.5       | 13.6      | 257.5       |           |             |
| 00:45 | 12.5      | 264.5       | 13.4      | 260.0       |           |             |
| 01:00 | 12.5      | 267.5       | 13.3      | 262.5       |           |             |
| 01:15 | 12.5      | 270.5       | 13.2      | 265.0       |           |             |
| 01:30 | 12.5      | 273.5       | 13.1      | 267.5       |           |             |
| 01:45 | 12.5      | 276.5       | 13.0      | 270.0       |           |             |
| 02:00 | 12.5      | 279.5       | 12.8      | 272.5       |           |             |
| 02:15 | 12.5      | 282.5       | 12.7      | 275.0       |           |             |
| 02:30 | 12.5      | 285.5       | 12.6      | 277.5       |           |             |
| 02:45 | 12.5      | 288.5       | 12.5      | 280.0       |           |             |
| 03:00 | 12.5      | 291.5       | 12.4      | 282.5       |           |             |
| 03:15 | 12.5      | 294.5       | 12.3      | 285.0       |           |             |
| 03:30 | 11.8      | 292.7       | 12.1      | 287.5       |           |             |
| 03:45 | 13.6      | 289.6       | 12.0      | 290.0       |           |             |
| 04:00 | 13.4      | 286.8       | 11.9      | 292.5       |           |             |
| 04:15 | 14.3      | 294.9       | 11.8      | 295.0       |           |             |
| 04:30 | 15.6      | 301.8       | 10.0      | 288.0       | 3.0       | 273.0       |
| 04:45 | 16.0      | 306.1       | 12.0      | 295.0       |           |             |
| 05:00 | 16.1      | 308.8       | 14.8      | 304.7       |           |             |
| 05:15 | 16.6      | 308.1       | 15.5      | 304.8       |           |             |
| 05:30 | 16.6      | 309.0       | 14.9      | 309.6       | 18.3      | 305.0       |
| 05:45 | 14.5      | 314.0       | 13.3      | 309.5       | 15.1      | 314.4       |
| 06:00 | 12.7      | 315.5       | 13.2      | 312.1       |           |             |
| 06:15 | 11.5      | 313.0       |           |             |           |             |
| 06:30 | 10.2      | 311.3       |           |             |           |             |
| 06:45 | 11.2      | 321.8       |           |             |           |             |
| 07:00 | 11.3      | 316.3       |           |             |           |             |
| 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      | 7.2       | 276.4       |           |             |           |             |
| 23:00      |           |             |           |             |           |             |
| 23:15      |           |             |           |             |           |             |
| 23:30      |           |             |           |             |           |             |
| 23:45      |           |             |           |             |           |             |
| Avg        | 12.9      | 290.5       | 13.0      | 282.0       | 12.1      | 297.5       |
| Max        | 16.6      | 321.8       | 15.5      | 312.1       | 18.3      | 314.4       |
| Hr. of Max | 22        | 27          | 21        | 24          | 22        | 23          |
| Min        | 7.2       | 255.5       | 10.0      | 252.5       | 3.0       | 273.0       |
| Count      | 30        | 30          | 25        | 25          | 3         | 3           |
| Total      |           |             |           |             |           |             |