

## Daily Summary Report

Site: ORNL Sodar

10/6/2019

Interval: 015m

|       | 03_WS060m | 04_WD060m | 05_WS100m | 06_WD100m | 07_WS140m | 08_WD140m | 09_WS180m | 10_WD180m | 11_WS240m |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Time  | M/SEC     | DEG       | M/SEC     | DEG       | KPH       | DEG       | M/SEC     | DEG       | M/SEC     |
| 00:00 | 3.6       | 235.0     | 5.2       | 223.0     | 6.8       | 217.0     | 8.2       | 215.0     | 10.0      |
| 00:15 | 4.7       | 241.4     | 6.2       | 219.4     | 8.1       | 216.7     | 9.5       | 216.3     | 11.2      |
| 00:30 | 7.4       | 238.2     | 5.8       | 215.4     | 7.8       | 217.8     | 9.5       | 217.2     | 11.3      |
| 00:45 | 5.6       | 246.8     | 4.2       | 227.2     | 6.1       | 225.5     | 7.5       | 223.5     | 9.1       |
| 01:00 | 2.8       | 252.5     | 2.7       | 233.4     | 4.3       | 234.1     | 5.5       | 233.3     | 6.4       |
| 01:15 | .9        | 258.4     | 1.6       | 233.2     | 3.3       | 239.0     | 4.4       | 242.2     | 5.6       |
| 01:30 | .3        | 249.7     | 1.4       | 231.9     | 3.2       | 235.0     | 4.2       | 236.9     | 5.3       |
| 01:45 | .7        | 247.7     | 1.3       | 235.3     | 2.7       | 236.8     | 3.6       | 240.2     | 4.5       |
| 02:00 | 1.4       | 254.6     | 1.5       | 238.6     | 2.7       | 239.4     | 3.4       | 239.9     | 4.3       |
| 02:15 | .7        | 259.0     | 1.4       | 239.7     | 2.9       | 232.8     | 3.7       | 228.9     | 4.8       |
| 02:30 | 1.5       | 254.2     | 1.3       | 228.4     | 2.7       | 222.1     | 3.6       | 218.7     | 4.9       |
| 02:45 | .5        | 206.9     | 1.4       | 213.0     | 2.1       | 210.2     | 3.0       | 208.0     | 4.6       |
| 03:00 | .6        | 235.8     | 1.1       | 203.0     | 2.0       | 199.8     | 2.7       | 200.3     | 4.2       |
| 03:15 | .7        | 249.9     | 1.1       | 193.3     | 2.1       | 194.1     | 2.9       | 196.5     | 4.0       |
| 03:30 | .6        | 253.7     | 1.3       | 195.2     | 1.9       | 194.8     | 2.9       | 195.5     | 4.1       |
| 03:45 | .5        | 253.0     | 1.1       | 200.3     | 1.9       | 201.5     | 3.2       | 199.2     | 4.5       |
| 04:00 | .5        | 261.2     | 1.1       | 219.0     | 2.5       | 210.4     | 3.6       | 205.9     | 5.0       |
| 04:15 | .6        | 260.5     | 1.9       | 221.0     | 3.1       | 218.2     | 4.1       | 208.8     | 5.5       |
| 04:30 | .8        | 214.5     | 2.5       | 211.5     | 3.7       | 209.3     | 5.2       | 201.3     | 6.2       |
| 04:45 | .7        | 205.9     | 3.7       | 198.9     | 5.5       | 197.0     | 7.0       | 195.8     | 7.8       |
| 05:00 | 4.0       | 208.7     | 4.9       | 195.8     | 7.0       | 198.1     | 8.6       | 197.3     | 9.9       |
| 05:15 | 1.3       | 215.3     | 4.8       | 198.3     | 6.8       | 201.1     | 8.5       | 200.0     | 10.1      |
| 05:30 | 2.9       | 234.0     | 4.0       | 197.9     | 5.6       | 197.3     | 7.4       | 197.0     | 9.8       |
| 05:45 | 1.0       | 142.6     | 3.0       | 199.3     | 4.7       | 197.6     | 6.2       | 194.2     | 8.9       |
| 06:00 | .8        | 269.4     | 1.5       | 210.0     | 3.0       | 203.9     | 4.3       | 198.3     | 5.9       |
| 06:15 | 1.3       | 276.4     | .5        | 213.6     | 1.4       | 210.6     | 2.1       | 207.3     | 3.5       |
| 06:30 | 1.0       | 50.1      | .1        | 219.7     | .8        | 232.3     | 1.4       | 224.8     | 2.7       |
| 06:45 | 1.5       | 258.4     | .6        | 263.2     | 1.2       | 248.7     | 2.0       | 242.2     | 3.2       |
| 07:00 | .4        | 301.1     | 1.5       | 264.6     | 2.2       | 252.2     | 2.8       | 241.5     | 3.8       |
| 07:15 | .9        | 274.7     | 2.1       | 261.6     | 2.9       | 252.5     | 3.2       | 236.9     | 4.3       |
| 07:30 | 1.2       | 274.6     | 2.3       | 264.0     | 3.1       | 253.1     | 3.4       | 240.7     | 4.5       |
| 07:45 | 2.7       | 272.8     | 2.5       | 266.5     | 3.6       | 256.0     | 3.9       | 249.5     | 4.4       |
| 08:00 | 3.5       | 271.0     | 2.6       | 259.5     | 3.7       | 250.6     | 4.0       | 243.6     | 4.6       |
| 08:15 | 1.4       | 253.4     | 2.4       | 248.2     | 3.1       | 235.8     | 3.8       | 226.9     | 5.3       |
| 08:30 | 1.0       | 247.9     | 2.1       | 241.1     | 3.1       | 235.9     | 3.9       | 230.7     | 5.5       |
| 08:45 | 2.2       | 265.3     | 2.5       | 253.7     | 3.8       | 249.6     | 4.6       | 248.0     | 5.5       |
| 09:00 | 3.9       | 266.1     | 3.3       | 258.3     | 4.5       | 255.8     | 5.3       | 254.7     | 5.8       |
| 09:15 | 2.1       | 260.9     | 2.6       | 250.9     | 3.8       | 249.9     | 4.6       | 244.7     | 5.7       |
| 09:30 | 1.3       | 247.4     | 2.7       | 242.5     | 3.9       | 231.1     | 5.0       | 225.4     | 6.7       |
| 09:45 | 1.2       | 233.4     | 2.7       | 235.5     | 3.9       | 221.8     | 4.8       | 218.9     | 6.3       |
| 10:00 | 1.3       | 252.7     | 1.9       | 240.6     | 2.8       | 229.7     | 3.5       | 225.4     | 4.9       |
| 10:15 | 1.6       | 266.3     | 1.7       | 251.1     | 2.5       | 245.6     | 3.1       | 235.5     | 4.3       |
| 10:30 | 1.5       | 262.8     | 1.3       | 253.1     | 2.4       | 243.0     | 3.1       | 232.6     | 4.4       |
| 10:45 | 1.0       | 257.1     | .7        | 252.0     | 2.2       | 237.8     | 3.3       | 227.1     | 4.6       |
| 11:00 | .8        | 260.2     | .4        | 226.7     | 2.1       | 242.1     | 3.0       | 231.6     | 4.0       |
| 11:15 | .4        | 308.0     | .4        | 246.6     | 1.6       | 253.6     | 2.0       | 250.7     | 3.2       |
| 11:30 | .4        | 338.7     | .1        | 237.2     | 1.0       | 268.7     | 1.6       | 257.5     | 2.7       |
| 11:45 | .1        | 48.1      | .1        | 59.4      | .6        | 265.7     | 1.2       | 252.7     | 2.6       |
| 12:00 | .3        | 108.0     | .1        | 348.0     | .4        | 271.1     | .9        | 255.9     | 2.2       |
| 12:15 | .3        | 118.5     | .2        | 283.0     | .5        | 257.3     | .9        | 243.4     | 1.7       |
| 12:30 | .3        | 113.1     | .3        | 279.0     | .6        | 230.6     | 1.1       | 216.6     | 2.1       |



## Daily Summary Report

Site: ORNL Sodar

10/6/2019

Interval: 015m

|       | 12_WD240m | 13_WS300m | 14_WD300m | 15_WS400m | 16_WD400m | 17_WS500m | 18_WD500m | 19_WS600m | 20_WD600m |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Time  | DEG       | M/SEC     | DEG       | M/SEC     | DEG       | M/SEC     | DEG       | M/SEC     | DEG       |
| 00:00 | 214.0     | 10.3      | 218.0     | 11.5      | 210.0     | 13.0      | 210.0     | 12.7      | 213.0     |
| 00:15 | 216.5     | 11.5      | 225.5     | 12.8      | 213.5     | 14.3      | 217.6     | 12.9      | 221.9     |
| 00:30 | 217.1     | 10.8      | 226.5     | 11.9      | 213.2     | 12.3      | 219.7     | 11.6      | 221.4     |
| 00:45 | 222.7     | 10.0      | 220.6     | 11.2      | 218.6     | 11.8      | 219.4     | 12.3      | 216.6     |
| 01:00 | 237.1     | 8.0       | 230.1     | 9.2       | 226.6     | 12.0      | 221.7     | 12.9      | 221.6     |
| 01:15 | 241.7     | 6.9       | 236.6     | 8.9       | 224.8     | 10.8      | 216.0     | 11.5      | 217.0     |
| 01:30 | 237.5     | 6.5       | 235.6     | 7.8       | 226.1     | 9.4       | 215.2     | 10.4      | 208.2     |
| 01:45 | 239.7     | 5.5       | 237.4     | 7.3       | 226.5     | 8.7       | 216.0     | 10.5      | 207.9     |
| 02:00 | 231.6     | 5.4       | 228.9     | 7.8       | 216.8     | 9.0       | 208.9     | 10.6      | 204.3     |
| 02:15 | 221.3     | 6.3       | 218.3     | 8.5       | 208.0     | 10.5      | 202.1     | 11.3      | 200.1     |
| 02:30 | 213.6     | 6.4       | 211.2     | 9.2       | 203.6     | 11.8      | 197.2     | 12.3      | 197.6     |
| 02:45 | 205.4     | 6.1       | 204.5     | 9.3       | 199.9     | 11.8      | 194.0     | 12.7      | 192.2     |
| 03:00 | 199.1     | 5.8       | 201.1     | 8.6       | 197.7     | 11.2      | 194.1     | 12.2      | 196.0     |
| 03:15 | 195.9     | 5.7       | 200.7     | 8.6       | 198.8     | 10.9      | 195.8     | 11.5      | 203.6     |
| 03:30 | 198.9     | 5.7       | 201.9     | 9.4       | 197.3     | 11.7      | 194.0     | 11.6      | 208.7     |
| 03:45 | 198.4     | 6.3       | 198.4     | 10.0      | 193.9     | 12.3      | 191.8     | 10.3      | 181.3     |
| 04:00 | 198.7     | 6.8       | 196.3     | 10.1      | 191.2     | 11.6      | 189.1     | 9.8       | 178.6     |
| 04:15 | 200.5     | 6.9       | 197.6     | 9.8       | 191.1     | 11.3      | 183.5     | 9.9       | 179.0     |
| 04:30 | 195.9     | 7.5       | 194.8     | 9.8       | 189.8     | 11.6      | 181.3     | 10.0      | 179.0     |
| 04:45 | 194.6     | 9.0       | 191.8     | 10.6      | 186.2     | 11.7      | 180.6     | 10.0      | 180.6     |
| 05:00 | 194.2     | 10.6      | 186.8     | 10.7      | 180.7     | 12.0      | 176.8     | 11.8      | 176.7     |
| 05:15 | 195.8     | 11.3      | 186.7     | 11.6      | 177.4     | 12.8      | 177.1     | 13.5      | 177.8     |
| 05:30 | 193.1     | 11.4      | 187.5     | 12.0      | 178.1     | 13.6      | 178.2     | 11.6      | 179.0     |
| 05:45 | 188.6     | 10.1      | 185.9     | 10.6      | 182.4     | 13.3      | 179.0     | 9.8       | 180.9     |
| 06:00 | 192.5     | 6.6       | 191.8     | 9.9       | 185.9     | 12.6      | 178.1     | 10.3      | 180.8     |
| 06:15 | 202.2     | 5.1       | 198.7     | 8.9       | 187.0     | 10.7      | 179.2     | 11.3      | 175.9     |
| 06:30 | 219.7     | 4.3       | 209.6     | 7.1       | 194.7     | 9.2       | 184.3     | 11.3      | 182.4     |
| 06:45 | 229.6     | 4.4       | 219.7     | 6.6       | 202.6     | 8.8       | 188.9     | 11.6      | 185.9     |
| 07:00 | 230.8     | 5.0       | 223.2     | 7.0       | 205.4     | 9.1       | 193.1     | 11.4      | 186.4     |
| 07:15 | 226.5     | 5.6       | 222.6     | 7.4       | 205.8     | 9.3       | 196.1     | 11.2      | 189.1     |
| 07:30 | 230.0     | 5.3       | 223.6     | 7.7       | 205.7     | 8.9       | 194.7     | 10.7      | 188.2     |
| 07:45 | 240.1     | 4.9       | 227.4     | 7.5       | 206.2     | 8.5       | 196.0     | 10.4      | 190.2     |
| 08:00 | 233.6     | 5.5       | 220.6     | 8.4       | 208.3     | 10.0      | 200.6     | 11.5      | 196.2     |
| 08:15 | 217.7     | 6.9       | 213.9     | 9.8       | 207.2     | 11.9      | 198.4     | 12.4      | 197.3     |
| 08:30 | 222.9     | 7.2       | 220.0     | 9.4       | 211.5     | 11.6      | 201.1     | 12.6      | 197.7     |
| 08:45 | 240.9     | 6.7       | 234.0     | 8.8       | 223.1     | 10.2      | 210.1     | 11.6      | 201.8     |
| 09:00 | 246.3     | 6.6       | 236.1     | 9.1       | 219.7     | 10.4      | 210.2     | 11.5      | 202.5     |
| 09:15 | 235.0     | 7.3       | 222.9     | 9.8       | 211.0     | 11.6      | 203.5     | 12.0      | 198.5     |
| 09:30 | 219.4     | 8.3       | 211.9     | 10.0      | 204.6     | 11.7      | 197.2     | 12.2      | 195.5     |
| 09:45 | 216.1     | 7.7       | 212.7     | 10.2      | 204.3     | 11.6      | 197.2     | 12.8      | 202.0     |
| 10:00 | 224.3     | 6.5       | 219.4     | 10.0      | 210.2     | 11.9      | 201.1     | 13.3      | 209.7     |
| 10:15 | 229.1     | 5.9       | 223.7     | 8.7       | 211.2     | 11.3      | 202.7     | 12.0      | 208.1     |
| 10:30 | 225.7     | 6.1       | 222.8     | 8.7       | 209.2     | 11.3      | 202.2     | 11.9      | 203.2     |
| 10:45 | 222.7     | 6.2       | 220.6     | 9.3       | 210.8     | 12.0      | 201.6     | 11.0      | 205.0     |
| 11:00 | 229.8     | 5.3       | 225.1     | 8.0       | 216.7     | 10.5      | 206.4     | 10.0      | 206.5     |
| 11:15 | 244.4     | 4.7       | 233.6     | 6.7       | 221.9     | 9.6       | 207.9     | 10.8      | 206.7     |
| 11:30 | 241.6     | 4.3       | 231.8     | 6.8       | 218.2     | 9.6       | 204.2     | 11.6      | 204.5     |
| 11:45 | 238.3     | 4.2       | 226.6     | 7.4       | 212.0     | 10.8      | 200.4     | 11.7      | 204.0     |
| 12:00 | 240.0     | 3.7       | 225.7     | 7.1       | 211.1     | 10.9      | 201.0     | 11.7      | 202.0     |
| 12:15 | 233.9     | 3.2       | 220.4     | 6.3       | 212.6     | 10.4      | 199.3     | 11.7      | 201.0     |
| 12:30 | 215.7     | 3.4       | 215.5     | 6.1       | 213.0     | 10.2      | 197.9     | 11.6      | 200.0     |



## Daily Summary Report

Site: ORNL Sodar

10/6/2019

Interval: 015m

|       | 21_WS700m | 22_WD700m | 23_WS800m | 24_WD800m |
|-------|-----------|-----------|-----------|-----------|
| Time  | M/SEC     | DEG       | M/SEC     | DEG       |
| 00:00 | 13.4      | 211.0     |           |           |
| 00:15 | 13.3      | 213.1     |           |           |
| 00:30 | 13.4      | 216.1     |           |           |
| 00:45 | 12.7      | 216.8     | 13.6      | 220.8     |
| 01:00 | 11.8      | 217.9     | 13.4      | 221.4     |
| 01:15 | 11.9      | 216.6     | 12.7      | 214.1     |
| 01:30 | 12.2      | 208.3     | 13.6      | 213.3     |
| 01:45 | 11.9      | 203.9     | 12.7      | 208.9     |
| 02:00 | 11.1      | 199.6     | 13.4      | 208.9     |
| 02:15 | 11.4      | 198.3     |           |           |
| 02:30 | 12.1      | 203.3     |           |           |
| 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 | 12.8      | 182.1     |           |           |
| 07:15 | 12.6      | 181.5     |           |           |
| 07:30 | 12.6      | 184.8     |           |           |
| 07:45 | 12.4      | 192.3     |           |           |
| 08:00 | 13.3      | 205.2     | 13.5      | 213.6     |
| 08:15 | 14.4      | 212.4     | 11.9      | 215.3     |
| 08:30 | 12.2      | 209.0     | 11.8      | 220.3     |
| 08:45 | 12.7      | 206.2     | 12.4      | 216.1     |
| 09:00 | 12.3      | 201.5     | 12.6      | 217.0     |
| 09:15 | 12.2      | 207.2     |           |           |
| 09:30 | 12.6      | 209.5     |           |           |
| 09:45 |           |           |           |           |
| 10:00 |           |           |           |           |
| 10:15 |           |           |           |           |
| 10:30 |           |           |           |           |
| 10:45 |           |           |           |           |
| 11:00 |           |           |           |           |
| 11:15 |           |           |           |           |
| 11:30 |           |           |           |           |
| 11:45 |           |           |           |           |
| 12:00 |           |           |           |           |
| 12:15 |           |           |           |           |
| 12:30 |           |           |           |           |

|                 | 21_WS700m | 22_WD700m | 23_WS800m | 24_WD800m |
|-----------------|-----------|-----------|-----------|-----------|
| Time            | 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           |           |           |           |           |
| <b>Avg</b>      | 12.5      | 204.0     | 12.9      | 215.0     |
| <b>Max</b>      | 14.4      | 217.9     | 13.6      | 221.4     |
| <b>Max Time</b> | 08:15     | 01:00     | 01:30     | 01:00     |
| <b>Min</b>      | 11.1      | 181.5     | 11.8      | 208.9     |
| <b>Count</b>    | 22        | 22        | 11        | 11        |
| <b>Total</b>    |           |           |           |           |