

Daily Summary Report

Site: ORNL Sodar

5/1/2017

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 | 1.4 | 137.8 | 2.6 | 158.6 | 3.7 | 164.4 | 4.6 | 163.6 | 6.3 |
| 00:15 | 1.8 | 135.1 | 2.5 | 158.0 | 3.6 | 160.8 | 4.5 | 160.6 | 6.6 |
| 00:30 | 1.8 | 128.0 | 2.0 | 131.0 | 3.0 | 145.3 | 4.3 | 147.1 | 7.1 |
| 00:45 | 1.7 | 128.7 | 1.7 | 143.6 | 2.7 | 154.2 | 4.1 | 152.2 | 6.5 |
| 01:00 | 1.5 | 140.2 | 1.9 | 186.0 | 2.6 | 183.7 | 3.6 | 178.4 | 5.4 |
| 01:15 | 1.4 | 149.0 | 2.1 | 202.9 | 3.0 | 203.4 | 4.1 | 197.4 | 5.5 |
| 01:30 | 1.3 | 162.7 | 1.8 | 208.5 | 2.9 | 204.9 | 3.9 | 197.2 | 5.3 |
| 01:45 | .4 | 217.8 | 1.1 | 212.8 | 2.2 | 206.1 | 3.1 | 196.1 | 4.7 |
| 02:00 | .2 | 281.6 | .7 | 217.5 | 1.8 | 194.5 | 2.9 | 188.8 | 5.2 |
| 02:15 | .3 | 172.3 | .9 | 208.5 | 1.9 | 189.9 | 3.3 | 187.1 | 6.0 |
| 02:30 | .8 | 250.9 | 1.3 | 227.9 | 2.4 | 217.4 | 3.6 | 207.3 | 6.2 |
| 02:45 | 1.1 | 258.0 | 1.5 | 234.3 | 2.9 | 227.7 | 4.0 | 217.1 | 6.6 |
| 03:00 | 1.3 | 217.0 | 2.0 | 223.3 | 3.4 | 217.9 | 4.7 | 209.7 | 7.6 |
| 03:15 | .6 | 302.9 | 2.7 | 210.9 | 4.3 | 205.1 | 6.2 | 201.1 | 9.3 |
| 03:30 | 1.9 | 222.0 | 2.9 | 213.7 | 4.6 | 209.6 | 6.6 | 206.5 | 10.0 |
| 03:45 | 2.3 | 303.6 | 3.5 | 237.3 | 5.1 | 231.2 | 6.3 | 222.2 | 8.9 |
| 04:00 | 2.2 | 274.6 | 3.7 | 249.7 | 5.1 | 244.1 | 6.2 | 234.5 | 8.1 |
| 04:15 | 2.3 | 272.8 | 3.4 | 255.5 | 5.1 | 249.4 | 6.4 | 242.4 | 8.2 |
| 04:30 | 2.5 | 277.8 | 3.2 | 253.8 | 5.1 | 250.1 | 6.6 | 243.1 | 8.6 |
| 04:45 | 2.0 | 269.1 | 2.4 | 247.5 | 4.3 | 245.8 | 5.8 | 241.5 | 8.1 |
| 05:00 | 2.1 | 272.0 | 2.2 | 248.2 | 3.8 | 244.5 | 5.1 | 241.9 | 6.9 |
| 05:15 | 2.9 | 271.2 | 2.7 | 246.8 | 4.4 | 242.7 | 5.9 | 237.4 | 7.5 |
| 05:30 | 3.6 | 294.0 | 3.4 | 240.8 | 5.3 | 237.1 | 7.0 | 229.1 | 9.3 |
| 05:45 | 2.9 | 292.7 | 4.2 | 245.5 | 5.8 | 240.2 | 7.3 | 233.1 | 9.4 |
| 06:00 | 2.1 | 248.0 | 4.1 | 244.6 | 5.7 | 241.0 | 6.8 | 234.3 | 8.4 |
| 06:15 | 2.0 | 217.3 | 3.0 | 226.1 | 4.7 | 224.0 | 6.1 | 216.1 | 8.2 |
| 06:30 | 2.4 | 184.5 | 2.6 | 204.1 | 4.0 | 201.4 | 5.8 | 194.4 | 8.4 |
| 06:45 | 4.2 | 178.3 | 3.5 | 184.0 | 3.9 | 185.5 | 6.2 | 181.7 | 9.3 |
| 07:00 | .3 | 81.7 | 3.4 | 184.0 | 4.0 | 185.8 | 6.7 | 181.7 | 10.1 |
| 07:15 | 1.0 | 120.0 | 3.3 | 183.8 | 4.9 | 182.7 | 7.6 | 181.4 | 11.0 |
| 07:30 | 2.0 | 150.0 | 4.0 | 179.7 | 6.6 | 180.1 | 9.1 | 181.5 | 12.1 |
| 07:45 | 3.6 | 189.9 | 5.2 | 181.2 | 7.9 | 182.4 | 10.1 | 183.6 | 12.6 |
| 08:00 | 4.0 | 190.0 | 6.5 | 188.4 | 9.0 | 186.2 | 10.6 | 184.7 | 12.8 |
| 08:15 | 4.5 | 190.1 | 6.7 | 195.1 | 9.9 | 188.3 | 11.2 | 184.9 | 13.1 |
| 08:30 | 5.3 | 187.3 | 6.7 | 193.9 | 10.2 | 189.7 | 11.7 | 185.9 | 12.9 |
| 08:45 | 5.3 | 183.6 | 6.3 | 196.0 | 8.9 | 193.1 | 10.4 | 188.7 | 12.1 |
| 09:00 | 3.2 | 179.6 | 5.1 | 199.6 | 7.5 | 193.3 | 9.4 | 187.8 | 11.6 |
| 09:15 | 4.4 | 175.1 | 7.0 | 192.1 | 9.3 | 192.3 | 11.7 | 189.2 | 14.2 |
| 09:30 | 7.5 | 176.2 | 10.6 | 200.9 | 11.9 | 205.5 | 15.1 | 199.1 | 15.5 |
| 09:45 | 6.8 | 190.0 | 8.2 | 222.8 | 10.1 | 226.4 | 12.2 | 220.1 | 12.6 |
| 10:00 | 6.0 | 200.0 | 6.0 | 232.6 | 9.7 | 230.6 | 11.5 | 229.6 | 12.1 |
| 10:15 | 5.5 | 210.0 | 10.3 | 243.4 | 11.7 | 229.5 | 13.6 | 227.4 | 14.0 |
| 10:30 | 5.0 | 220.0 | 10.9 | 235.8 | 12.5 | 235.3 | 14.9 | 236.1 | 15.9 |
| 10:45 | 4.5 | 230.0 | 9.5 | 232.0 | 11.2 | 234.8 | 13.6 | 235.4 | 15.6 |
| 11:00 | 4.2 | 240.0 | 8.4 | 229.5 | 11.3 | 226.6 | 13.3 | 228.2 | 15.6 |
| 11:15 | 4.1 | 241.1 | 8.8 | 219.7 | 11.0 | 222.4 | 13.1 | 224.6 | 15.3 |
| 11:30 | 4.6 | 246.0 | 8.1 | 214.4 | 10.4 | 221.2 | 12.3 | 223.1 | 14.2 |
| 11:45 | 5.4 | 251.8 | 8.0 | 220.4 | 10.4 | 219.8 | 12.2 | 222.0 | 13.7 |
| 12:00 | 3.4 | 253.4 | 8.6 | 217.9 | 9.9 | 218.2 | 12.2 | 217.0 | 13.9 |
| 12:15 | 3.6 | 198.5 | 7.6 | 206.3 | 9.0 | 211.8 | 10.9 | 209.4 | 12.8 |

Daily Summary Report

Site: ORNL Sodar

5/1/2017

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 | 169.0 | 8.4 | 174.6 | 12.9 | 177.6 | 16.0 | 176.6 | | |
| 00:15 | 164.1 | 9.5 | 166.8 | 13.9 | 172.8 | 18.2 | 177.4 | | |
| 00:30 | 153.6 | 10.3 | 159.5 | 14.7 | 168.8 | 19.9 | 173.9 | | |
| 00:45 | 160.4 | 9.4 | 166.0 | 13.5 | 171.8 | 18.9 | 175.2 | | |
| 01:00 | 180.0 | 7.7 | 178.5 | 11.9 | 178.6 | 16.6 | 179.5 | | |
| 01:15 | 189.9 | 7.4 | 184.2 | 11.4 | 181.2 | 16.0 | 181.2 | | |
| 01:30 | 189.3 | 8.0 | 182.8 | 12.2 | 177.6 | 16.4 | 179.1 | | |
| 01:45 | 186.8 | 7.7 | 181.2 | 11.8 | 176.4 | 16.0 | 176.7 | 19.0 | 173.8 |
| 02:00 | 182.3 | 7.7 | 179.5 | 12.0 | 178.1 | 16.8 | 177.1 | 19.8 | 176.3 |
| 02:15 | 184.4 | 8.5 | 180.8 | 13.4 | 177.1 | 17.7 | 177.7 | 19.7 | 179.3 |
| 02:30 | 196.5 | 9.0 | 189.0 | 13.3 | 182.1 | 16.4 | 181.4 | 18.6 | 181.5 |
| 02:45 | 207.1 | 9.4 | 198.1 | 13.2 | 187.9 | 16.1 | 184.9 | 18.4 | 184.0 |
| 03:00 | 203.4 | 10.4 | 198.4 | 13.7 | 189.4 | 16.6 | 185.1 | 19.1 | 184.7 |
| 03:15 | 197.5 | 12.3 | 195.0 | 14.8 | 188.9 | 17.4 | 184.1 | 18.9 | 183.0 |
| 03:30 | 201.5 | 13.4 | 197.1 | 16.8 | 192.5 | 18.8 | 191.3 | 20.0 | 187.0 |
| 03:45 | 210.9 | 11.9 | 202.9 | 16.2 | 196.1 | 19.4 | 193.0 | 21.0 | 190.0 |
| 04:00 | 221.0 | 10.6 | 210.4 | 14.8 | 199.3 | 18.9 | 193.4 | 22.0 | 194.0 |
| 04:15 | 227.4 | 10.9 | 213.1 | 14.6 | 202.3 | 19.0 | 195.9 | 23.1 | 198.1 |
| 04:30 | 225.7 | 11.1 | 211.7 | 14.3 | 202.4 | 18.5 | 197.1 | 21.1 | 196.6 |
| 04:45 | 225.4 | 10.4 | 211.8 | 13.9 | 200.3 | 17.6 | 195.1 | 20.8 | 192.0 |
| 05:00 | 226.8 | 9.4 | 212.1 | 13.7 | 197.8 | 17.6 | 193.6 | 21.4 | 192.3 |
| 05:15 | 223.3 | 10.3 | 210.3 | 14.9 | 196.5 | 18.1 | 193.0 | 21.1 | 194.1 |
| 05:30 | 214.5 | 12.2 | 204.5 | 16.5 | 195.5 | 20.0 | 194.8 | 19.8 | 193.9 |
| 05:45 | 215.1 | 11.9 | 203.5 | 15.3 | 198.1 | 17.1 | 199.6 | 19.2 | 196.9 |
| 06:00 | 220.3 | 10.2 | 209.0 | 12.8 | 201.7 | 14.7 | 198.7 | 19.1 | 198.0 |
| 06:15 | 206.9 | 10.1 | 199.4 | 13.8 | 191.5 | 17.7 | 190.4 | 19.1 | 200.0 |
| 06:30 | 187.9 | 11.0 | 184.7 | 15.0 | 183.9 | 19.5 | 182.5 | 19.1 | 202.0 |
| 06:45 | 178.9 | 12.1 | 178.6 | 15.6 | 180.0 | 19.2 | 177.8 | 19.0 | 204.0 |
| 07:00 | 179.5 | 12.6 | 181.6 | 16.1 | 181.0 | 17.2 | 179.0 | 19.0 | 206.0 |
| 07:15 | 182.1 | 13.7 | 183.7 | 16.9 | 182.6 | 16.6 | 181.7 | 19.0 | 208.0 |
| 07:30 | 182.9 | 14.5 | 183.1 | 17.4 | 183.4 | 16.4 | 183.0 | 18.9 | 210.0 |
| 07:45 | 183.2 | 14.8 | 182.7 | 17.3 | 185.8 | 16.3 | 188.0 | 18.9 | 212.0 |
| 08:00 | 183.6 | 15.2 | 183.5 | 17.9 | 192.6 | 16.0 | 192.0 | 18.8 | 214.0 |
| 08:15 | 185.0 | 15.3 | 186.0 | 18.6 | 196.2 | 15.8 | 197.0 | 18.8 | 216.0 |
| 08:30 | 186.6 | 15.6 | 184.7 | 17.2 | 193.0 | 15.5 | 202.0 | 18.7 | 218.0 |
| 08:45 | 186.4 | 14.1 | 184.6 | 16.0 | 190.0 | 15.5 | 206.0 | 18.7 | 219.0 |
| 09:00 | 185.0 | 12.5 | 181.1 | 15.2 | 187.8 | 15.3 | 210.0 | 18.6 | 220.0 |
| 09:15 | 185.4 | 14.9 | 183.7 | 16.3 | 186.3 | 15.0 | 214.0 | 18.6 | 221.0 |
| 09:30 | 196.3 | 17.4 | 195.0 | 19.2 | 200.4 | 14.8 | 219.0 | 18.5 | 222.0 |
| 09:45 | 219.2 | 13.0 | 218.1 | 17.0 | 216.0 | 14.5 | 224.0 | 18.5 | 223.0 |
| 10:00 | 232.6 | 13.2 | 228.1 | 14.4 | 231.9 | 14.3 | 229.6 | 18.3 | 225.0 |
| 10:15 | 228.8 | 14.3 | 227.8 | 16.0 | 232.0 | 16.3 | 230.6 | 18.2 | 227.0 |
| 10:30 | 233.8 | 14.9 | 232.4 | 16.3 | 229.9 | 18.4 | 231.6 | 18.1 | 229.3 |
| 10:45 | 234.4 | 15.6 | 233.7 | 16.8 | 228.7 | 19.5 | 233.4 | 19.1 | 230.5 |
| 11:00 | 228.1 | 15.6 | 226.7 | 17.8 | 225.1 | 20.1 | 227.6 | 20.5 | 225.9 |
| 11:15 | 224.6 | 15.8 | 222.9 | 18.6 | 223.1 | 20.4 | 224.6 | 21.0 | 225.7 |
| 11:30 | 223.8 | 15.5 | 223.9 | 18.8 | 226.6 | 19.3 | 229.9 | 18.5 | 225.6 |
| 11:45 | 221.7 | 15.4 | 221.8 | 18.3 | 223.4 | 19.1 | 227.9 | 16.6 | 225.5 |
| 12:00 | 216.6 | 15.9 | 219.1 | 17.3 | 215.8 | 19.3 | 224.5 | 19.0 | 218.0 |
| 12:15 | 209.7 | 14.5 | 212.5 | 16.4 | 210.2 | 17.7 | 217.5 | 22.5 | 212.8 |

Daily Summary Report

Site: ORNL Sodar

5/1/2017

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 | | | | | | |
| 00:15 | | | | | | |
| 00:30 | | | | | | |
| 00:45 | | | | | | |
| 01:00 | | | | | | |
| 01:15 | | | | | | |
| 01:30 | | | | | | |
| 01:45 | | | | | | |
| 02:00 | | | | | | |
| 02:15 | | | | | | |
| 02:30 | | | | | | |
| 02:45 | 20.1 | 185.1 | | | | |
| 03:00 | 20.4 | 185.6 | | | | |
| 03:15 | 20.7 | 186.3 | | | | |
| 03:30 | 21.0 | 186.9 | | | | |
| 03:45 | 21.3 | 187.6 | | | | |
| 04:00 | 21.5 | 188.2 | | | | |
| 04:15 | 21.6 | 188.9 | | | | |
| 04:30 | 21.7 | 189.5 | | | | |
| 04:45 | 21.9 | 190.2 | | | | |
| 05:00 | 22.0 | 190.8 | | | | |
| 05:15 | 22.1 | 191.5 | | | | |
| 05:30 | 22.3 | 192.1 | | | | |
| 05:45 | 22.4 | 192.8 | | | | |
| 06:00 | 22.5 | 193.4 | | | | |
| 06:15 | 22.6 | 194.1 | | | | |
| 06:30 | 22.8 | 194.7 | | | | |
| 06:45 | 22.9 | 195.4 | | | | |
| 07:00 | 23.0 | 195.9 | | | | |
| 07:15 | 23.2 | 196.4 | | | | |
| 07:30 | 23.3 | 196.9 | | | | |
| 07:45 | 23.4 | 197.4 | | | | |
| 08:00 | 23.6 | 198.0 | | | | |
| 08:15 | 23.7 | 198.7 | | | | |
| 08:30 | 23.8 | 199.3 | | | | |
| 08:45 | 23.9 | 200.0 | | | | |
| 09:00 | 24.1 | 200.6 | | | | |
| 09:15 | 24.2 | 201.3 | | | | |
| 09:30 | 24.3 | 201.9 | | | | |
| 09:45 | 24.5 | 202.6 | | | | |
| 10:00 | 24.6 | 203.2 | | | | |
| 10:15 | 24.7 | 203.9 | | | | |
| 10:30 | 24.9 | 204.5 | | | | |
| 10:45 | 25.0 | 205.2 | | | | |
| 11:00 | 25.1 | 205.8 | | | | |
| 11:15 | 25.2 | 206.5 | | | | |
| 11:30 | 25.4 | 207.1 | | | | |
| 11:45 | 25.5 | 207.8 | | | | |
| 12:00 | 25.6 | 208.4 | | | | |
| 12:15 | 25.9 | 214.7 | | | | |

| | 22_WS700m | 23_WDir700m | 24_WS800m | 25_WDir800m | 26_WS900m | 27_WDir900m |
|------------|-----------|-------------|-----------|-------------|-----------|-------------|
| Hour | M/SEC | DEG | M/SEC | DEG | M/SEC | DEG |
| 12:30 | 24.0 | 213.0 | | | | |
| 12:45 | 22.0 | 211.0 | | | | |
| 13:00 | 19.6 | 209.8 | | | | |
| 13:15 | 18.5 | 210.4 | | | | |
| 13:30 | 21.2 | 210.1 | | | | |
| 13:45 | 20.2 | 212.0 | 18.3 | 215.6 | | |
| 14:00 | 16.1 | 216.8 | 18.7 | 214.0 | | |
| 14:15 | 15.6 | 217.0 | 18.3 | 215.0 | | |
| 14:30 | 15.0 | 218.0 | 18.0 | 215.0 | | |
| 14:45 | 14.8 | 218.0 | 17.8 | 216.0 | | |
| 15:00 | 14.5 | 219.0 | 17.5 | 216.0 | | |
| 15:15 | 14.3 | 220.0 | 17.3 | 217.0 | | |
| 15:30 | 14.0 | 221.0 | 17.0 | 217.0 | | |
| 15:45 | 13.8 | 222.0 | 16.8 | 218.0 | | |
| 16:00 | 13.5 | 223.0 | 16.5 | 218.0 | | |
| 16:15 | 13.3 | 223.0 | 16.3 | 219.0 | | |
| 16:30 | 13.2 | 223.7 | 16.0 | 219.0 | | |
| 16:45 | 12.2 | 225.6 | 15.8 | 220.0 | | |
| 17:00 | 11.2 | 227.6 | 15.5 | 220.0 | | |
| 17:15 | 12.5 | 225.0 | 15.3 | 221.0 | | |
| 17:30 | 12.5 | 225.0 | 15.0 | 222.0 | | |
| 17:45 | 12.5 | 225.0 | 15.0 | 222.0 | | |
| 18:00 | 12.5 | 225.0 | 14.8 | 222.0 | | |
| 18:15 | 12.5 | 226.0 | 14.8 | 223.0 | | |
| 18:30 | 12.5 | 226.0 | 14.5 | 224.0 | | |
| 18:45 | 12.5 | 226.0 | 14.5 | 225.0 | | |
| 19:00 | 12.4 | 226.0 | 14.3 | 225.0 | | |
| 19:15 | 12.4 | 226.0 | 14.3 | 226.0 | | |
| 19:30 | 12.4 | 226.0 | 14.0 | 227.0 | | |
| 19:45 | 12.3 | 226.0 | 14.0 | 227.0 | | |
| 20:00 | 12.3 | 226.0 | 14.0 | 228.0 | | |
| 20:15 | 12.3 | 226.0 | 13.8 | 228.0 | | |
| 20:30 | 12.3 | 226.5 | 13.5 | 229.0 | | |
| 20:45 | 11.7 | 227.9 | 13.4 | 229.3 | | |
| 21:00 | 12.7 | 223.7 | 15.1 | 232.1 | | |
| 21:15 | 13.7 | 227.3 | 14.9 | 230.5 | | |
| 21:30 | 14.0 | 227.0 | 15.0 | 231.0 | | |
| 21:45 | 14.1 | 227.0 | 15.0 | 231.0 | | |
| 22:00 | 14.3 | 227.0 | 15.3 | 231.0 | | |
| 22:15 | 14.4 | 227.0 | 15.3 | 231.0 | | |
| 22:30 | 14.6 | 227.0 | 15.5 | 231.0 | | |
| 22:45 | 14.8 | 227.0 | 15.5 | 231.0 | | |
| 23:00 | 15.0 | 226.5 | 15.8 | 231.0 | | |
| 23:15 | 15.2 | 226.5 | 16.0 | 231.0 | | |
| 23:30 | 15.3 | 226.4 | 16.0 | 231.1 | | |
| 23:45 | 16.2 | 228.0 | 15.8 | 236.2 | 16.8 | 238.0 |
| Avg | 18.5 | 211.0 | 15.6 | 224.3 | 16.8 | 238.0 |
| Max | 25.9 | 228.0 | 18.7 | 236.2 | 16.8 | 238.0 |
| Hr. of Max | 49 | 95 | 56 | 95 | 95 | 95 |
| Min | 11.2 | 185.1 | 13.4 | 214.0 | 16.8 | 238.0 |
| Count | 85 | 85 | 41 | 41 | 1 | 1 |
| Total | | | | | | |