

Daily Summary Report

Site: ORNL Sodar

3/28/2019

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 | .8 | 218.4 | 2.2 | 210.9 | 2.6 | 216.4 | 3.5 | 204.5 | 2.5 |
| 00:15 | 1.0 | 199.9 | 2.6 | 213.3 | 3.5 | 214.8 | 4.0 | 205.0 | 5.2 |
| 00:30 | 1.4 | 206.3 | 3.4 | 212.5 | 4.5 | 214.3 | 5.2 | 214.2 | 5.8 |
| 00:45 | 1.5 | 216.5 | 3.6 | 215.5 | 4.5 | 214.0 | 5.9 | 217.5 | 6.7 |
| 01:00 | 2.0 | 203.0 | 3.5 | 213.4 | 4.9 | 214.1 | 6.4 | 211.8 | 7.0 |
| 01:15 | 2.3 | 195.7 | 3.5 | 209.4 | 5.2 | 214.0 | 6.3 | 203.2 | 6.8 |
| 01:30 | 2.2 | 189.0 | 3.0 | 210.2 | 4.6 | 212.2 | 5.4 | 203.9 | 6.8 |
| 01:45 | 2.4 | 185.4 | 2.7 | 208.7 | 4.5 | 210.8 | 5.5 | 208.1 | 7.6 |
| 02:00 | 1.9 | 189.1 | 3.0 | 209.3 | 5.0 | 210.0 | 6.2 | 207.2 | 8.1 |
| 02:15 | 1.4 | 193.1 | 2.6 | 208.4 | 4.5 | 208.4 | 5.7 | 206.6 | 7.6 |
| 02:30 | 1.6 | 222.2 | 2.2 | 208.4 | 3.7 | 207.1 | 4.8 | 208.4 | 6.7 |
| 02:45 | 1.4 | 238.0 | 1.9 | 222.6 | 2.6 | 217.1 | 3.7 | 216.2 | 4.7 |
| 03:00 | 1.1 | 252.2 | 1.9 | 241.3 | 2.4 | 238.5 | 3.0 | 231.8 | 2.4 |
| 03:15 | 1.3 | 257.5 | 2.0 | 236.1 | 3.1 | 239.0 | 3.4 | 233.7 | 1.6 |
| 03:30 | 1.2 | 260.2 | 2.1 | 238.2 | 3.8 | 239.3 | 4.2 | 232.9 | 3.0 |
| 03:45 | 1.0 | 259.2 | 2.6 | 242.9 | 4.2 | 242.4 | 4.6 | 238.4 | 3.7 |
| 04:00 | 1.3 | 255.1 | 3.3 | 241.2 | 4.6 | 246.7 | 5.9 | 250.4 | 3.4 |
| 04:15 | 1.5 | 247.9 | 3.6 | 240.4 | 4.9 | 245.8 | 6.3 | 250.6 | 6.2 |
| 04:30 | 1.4 | 243.4 | 2.7 | 239.0 | 4.2 | 244.8 | 4.4 | 242.7 | 4.2 |
| 04:45 | 1.2 | 246.0 | 2.4 | 242.2 | 3.2 | 244.7 | 3.1 | 232.5 | 2.4 |
| 05:00 | 1.5 | 245.6 | 3.3 | 251.0 | 3.6 | 245.8 | 2.9 | 233.6 | 2.4 |
| 05:15 | 1.9 | 245.7 | 3.9 | 251.4 | 4.0 | 246.1 | 3.1 | 233.1 | 2.5 |
| 05:30 | 2.1 | 248.8 | 3.4 | 248.6 | 3.6 | 241.7 | 3.5 | 233.5 | 3.6 |
| 05:45 | 2.0 | 252.4 | 3.1 | 247.9 | 3.6 | 244.1 | 3.9 | 241.4 | 3.3 |
| 06:00 | 1.7 | 256.6 | 2.9 | 240.5 | 3.8 | 246.4 | 4.9 | 243.4 | 5.1 |
| 06:15 | 1.3 | 257.4 | 2.2 | 232.1 | 3.1 | 237.5 | 4.1 | 238.0 | 2.5 |
| 06:30 | 1.2 | 256.7 | 2.0 | 240.1 | 2.2 | 231.6 | 2.0 | 229.6 | .4 |
| 06:45 | 1.0 | 256.7 | 2.2 | 246.7 | 2.2 | 235.5 | 1.4 | 229.1 | .8 |
| 07:00 | .6 | 255.1 | 2.2 | 253.2 | 2.3 | 234.5 | 2.3 | 228.3 | 2.5 |
| 07:15 | .5 | 259.5 | 2.0 | 255.9 | 2.2 | 235.6 | 2.7 | 236.8 | 2.3 |
| 07:30 | .4 | 245.1 | 1.0 | 245.1 | 1.9 | 240.5 | 2.8 | 244.8 | 1.5 |
| 07:45 | .5 | 257.0 | .8 | 252.2 | 1.8 | 246.4 | 3.0 | 246.3 | 2.9 |
| 08:00 | .7 | 286.2 | 1.5 | 257.7 | 2.1 | 249.1 | 3.0 | 251.2 | 3.8 |
| 08:15 | .7 | 277.8 | 2.1 | 257.4 | 2.6 | 253.0 | 3.5 | 259.1 | 4.6 |
| 08:30 | .7 | 258.9 | 2.1 | 260.8 | 2.9 | 252.8 | 4.0 | 254.6 | 5.0 |
| 08:45 | 1.9 | 265.0 | 1.8 | 263.7 | 3.2 | 254.4 | 4.8 | 253.1 | 6.5 |
| 09:00 | 2.9 | 264.8 | 1.7 | 260.7 | 3.3 | 255.4 | 4.9 | 254.2 | 6.3 |
| 09:15 | .6 | 237.4 | 2.1 | 259.9 | 3.3 | 253.2 | 4.5 | 254.1 | 5.5 |
| 09:30 | 1.3 | 262.6 | 2.4 | 259.0 | 3.5 | 253.5 | 4.7 | 255.3 | 6.4 |
| 09:45 | 1.1 | 263.4 | 2.0 | 250.7 | 3.1 | 252.3 | 4.6 | 251.6 | 6.1 |
| 10:00 | .8 | 255.6 | 1.9 | 249.2 | 2.6 | 248.3 | 4.1 | 249.6 | 4.9 |
| 10:15 | 1.0 | 257.0 | 1.9 | 255.8 | 2.4 | 249.4 | 3.5 | 252.7 | 3.5 |
| 10:30 | 1.7 | 238.0 | 2.1 | 257.0 | 2.5 | 244.7 | 3.0 | 244.8 | 3.0 |
| 10:45 | 1.6 | 229.6 | 2.7 | 253.6 | 2.8 | 244.6 | 3.0 | 241.0 | 3.7 |
| 11:00 | 1.3 | 250.7 | 2.0 | 242.0 | 2.8 | 241.0 | 4.0 | 241.0 | 4.2 |
| 11:15 | 1.7 | 227.1 | 2.7 | 215.5 | 3.3 | 213.4 | 4.2 | 221.9 | 4.1 |
| 11:30 | 1.4 | 215.3 | 2.9 | 219.9 | 3.7 | 204.1 | 3.8 | 208.1 | 3.9 |
| 11:45 | 1.0 | 208.9 | 2.4 | 220.7 | 3.5 | 195.4 | 3.6 | 203.9 | 3.4 |
| 12:00 | 2.6 | 220.6 | 3.1 | 214.7 | 4.0 | 199.7 | 4.3 | 199.3 | 4.0 |
| 12:15 | 2.5 | 232.7 | 3.3 | 220.2 | 3.6 | 217.0 | 4.0 | 207.8 | 3.9 |
| 12:30 | .8 | 236.4 | 1.2 | 202.3 | 1.3 | 219.8 | 2.0 | 212.8 | 1.7 |

Daily Summary Report

Site: ORNL Sodar

3/28/2019

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 | 196.1 | 3.0 | 210.0 | | | | | | |
| 00:15 | 187.5 | 7.4 | 192.8 | 10.3 | 183.3 | | | | |
| 00:30 | 202.1 | 8.2 | 202.0 | 10.4 | 185.5 | | | | |
| 00:45 | 214.2 | 9.4 | 209.4 | 11.3 | 182.5 | | | | |
| 01:00 | 203.1 | 9.3 | 200.3 | 13.0 | 180.8 | 12.3 | 176.9 | | |
| 01:15 | 191.7 | 8.7 | 188.7 | 11.3 | 182.9 | 12.0 | 177.2 | | |
| 01:30 | 189.7 | 8.9 | 182.5 | 10.6 | 181.3 | 11.8 | 177.3 | | |
| 01:45 | 192.5 | 9.7 | 181.9 | 11.6 | 179.8 | 11.8 | 181.1 | | |
| 02:00 | 194.4 | 9.5 | 187.3 | 11.7 | 184.8 | 13.5 | 196.6 | 13.1 | 214.3 |
| 02:15 | 194.6 | 9.3 | 190.4 | 11.4 | 192.3 | 14.3 | 198.0 | 12.8 | 212.2 |
| 02:30 | 192.7 | 9.2 | 184.4 | 11.4 | 190.4 | 12.8 | 197.2 | 11.1 | 188.9 |
| 02:45 | 197.6 | 7.9 | 185.3 | 10.9 | 191.9 | 13.0 | 200.4 | 12.0 | 188.0 |
| 03:00 | 211.9 | 5.5 | 200.4 | 9.3 | 198.5 | 13.2 | 201.7 | 12.5 | 187.0 |
| 03:15 | 212.6 | 5.5 | 200.7 | 8.9 | 198.9 | 13.1 | 201.3 | 13.0 | 187.0 |
| 03:30 | 217.7 | 7.0 | 204.4 | 9.2 | 198.1 | 12.9 | 198.9 | 13.3 | 186.5 |
| 03:45 | 215.3 | 6.3 | 210.9 | 8.9 | 198.8 | 12.3 | 202.0 | 13.0 | 185.0 |
| 04:00 | 224.0 | 5.4 | 223.0 | 8.6 | 204.3 | 13.5 | 204.1 | 13.0 | 184.0 |
| 04:15 | 247.6 | 6.3 | 232.2 | 8.8 | 210.4 | 13.6 | 204.5 | 12.7 | 182.0 |
| 04:30 | 232.8 | 5.9 | 220.4 | 8.8 | 198.6 | 12.5 | 202.6 | 12.4 | 180.1 |
| 04:45 | 209.4 | 6.1 | 200.8 | 9.1 | 186.3 | 12.3 | 195.0 | 12.1 | 174.9 |
| 05:00 | 219.5 | 3.2 | 212.7 | 9.0 | 189.6 | 12.4 | 199.2 | 10.9 | 182.9 |
| 05:15 | 217.8 | 2.7 | 222.2 | 9.7 | 194.0 | 12.6 | 202.5 | 10.4 | 180.0 |
| 05:30 | 208.9 | 4.8 | 196.4 | 10.8 | 192.5 | 12.6 | 201.2 | 10.0 | 178.0 |
| 05:45 | 220.1 | 3.7 | 201.2 | 10.3 | 188.8 | 10.1 | 181.0 | 9.9 | 176.4 |
| 06:00 | 249.3 | 6.2 | 241.4 | 10.0 | 191.0 | 10.2 | 184.0 | 10.0 | 178.0 |
| 06:15 | 246.3 | 5.2 | 253.5 | 9.8 | 194.0 | 10.4 | 186.0 | 10.0 | 180.0 |
| 06:30 | 179.2 | .4 | 205.8 | 9.5 | 197.0 | 10.6 | 188.0 | 10.0 | 182.0 |
| 06:45 | 203.4 | 1.0 | 230.0 | 9.0 | 200.0 | 10.8 | 190.0 | 10.0 | 185.0 |
| 07:00 | 206.3 | 2.0 | 236.0 | 8.8 | 203.0 | 11.0 | 193.0 | 10.0 | 187.0 |
| 07:15 | 232.3 | 3.5 | 242.0 | 8.5 | 206.0 | 11.3 | 195.0 | 10.0 | 189.0 |
| 07:30 | 243.5 | 4.9 | 247.0 | 8.4 | 208.7 | 11.5 | 197.0 | 10.5 | 191.0 |
| 07:45 | 250.3 | 4.9 | 247.9 | 8.6 | 206.2 | 11.5 | 200.0 | 10.5 | 194.0 |
| 08:00 | 259.8 | 6.6 | 262.2 | 9.0 | 208.0 | 11.8 | 202.0 | 10.5 | 197.0 |
| 08:15 | 263.6 | 5.3 | 258.9 | 10.0 | 210.0 | 11.8 | 204.0 | 11.0 | 200.0 |
| 08:30 | 257.8 | 6.2 | 242.4 | 11.0 | 212.0 | 12.0 | 206.0 | 11.0 | 203.0 |
| 08:45 | 252.9 | 9.2 | 226.1 | 12.2 | 215.7 | 12.0 | 208.0 | 11.0 | 205.0 |
| 09:00 | 261.0 | 7.0 | 233.6 | 11.6 | 216.0 | 12.3 | 210.0 | 11.5 | 207.0 |
| 09:15 | 262.2 | 4.9 | 245.3 | 11.0 | 217.0 | 12.3 | 213.0 | 11.5 | 210.0 |
| 09:30 | 260.2 | 5.7 | 249.2 | 10.5 | 218.0 | 12.5 | 215.0 | 12.0 | 212.0 |
| 09:45 | 253.3 | 5.9 | 240.7 | 10.0 | 219.0 | 12.5 | 218.0 | 12.0 | 215.0 |
| 10:00 | 243.4 | 5.8 | 236.6 | 9.2 | 220.9 | 12.7 | 221.2 | 12.5 | 218.0 |
| 10:15 | 240.2 | 4.8 | 236.3 | 8.5 | 222.4 | 11.9 | 223.0 | 12.5 | 220.0 |
| 10:30 | 236.8 | 4.3 | 234.8 | 8.8 | 215.0 | 10.3 | 217.9 | 12.8 | 222.8 |
| 10:45 | 237.2 | 4.8 | 228.9 | 8.6 | 213.0 | 9.5 | 217.2 | 11.9 | 215.3 |
| 11:00 | 238.0 | 5.4 | 229.7 | 8.0 | 219.5 | 9.4 | 223.7 | 11.0 | 218.0 |
| 11:15 | 215.7 | 5.3 | 214.3 | 9.1 | 213.6 | 10.1 | 221.2 | 10.2 | 215.6 |
| 11:30 | 206.4 | 4.8 | 196.4 | 9.2 | 205.6 | 10.9 | 217.5 | 9.9 | 212.4 |
| 11:45 | 202.3 | 4.3 | 194.2 | 7.3 | 207.8 | 11.4 | 218.1 | 10.7 | 213.0 |
| 12:00 | 195.4 | 4.0 | 195.3 | 5.7 | 196.6 | 8.4 | 206.2 | 10.0 | 216.0 |
| 12:15 | 205.7 | 4.1 | 201.7 | 7.3 | 216.0 | 8.5 | 213.3 | 10.2 | 214.0 |
| 12:30 | 220.6 | 2.3 | 207.3 | 6.2 | 207.3 | 9.3 | 209.1 | 10.7 | 215.2 |

Daily Summary Report

Site: ORNL Sodar

3/28/2019

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 | 11.9 | 222.3 | 14.0 | 229.2 | 13.0 | 221.3 |
| 10:45 | 12.6 | 220.8 | 13.7 | 224.9 | 13.5 | 229.4 |
| 11:00 | 15.2 | 228.0 | 12.0 | 233.0 | 14.0 | 230.0 |
| 11:15 | 13.0 | 230.1 | 12.1 | 226.6 | 14.2 | 231.0 |
| 11:30 | 12.3 | 224.6 | 11.2 | 222.0 | 10.7 | 220.7 |
| 11:45 | 12.1 | 219.9 | 11.1 | 221.7 | 10.5 | 221.0 |
| 12:00 | 10.8 | 219.0 | 10.7 | 218.8 | 11.4 | 219.8 |
| 12:15 | 10.1 | 216.2 | 9.2 | 217.1 | 11.9 | 220.4 |
| 12:30 | 10.1 | 220.0 | 10.8 | 208.2 | 11.3 | 221.8 |

| | 22_WS700m | 23_WDir700m | 24_WS800m | 25_WDir800m | 26_WS900m | 27_WDir900m |
|------------|-----------|-------------|-----------|-------------|-----------|-------------|
| Hour | M/SEC | DEG | M/SEC | DEG | M/SEC | DEG |
| 12:45 | 10.8 | 222.5 | 10.9 | 214.9 | 11.3 | 222.1 |
| 13:00 | 12.0 | 221.0 | 12.3 | 225.0 | 11.8 | 226.3 |
| 13:15 | 12.3 | 222.0 | 12.5 | 225.0 | 12.0 | 223.0 |
| 13:30 | 12.7 | 222.0 | 12.5 | 225.0 | 12.3 | 223.0 |
| 13:45 | 13.0 | 223.0 | 12.5 | 225.0 | 12.5 | 223.0 |
| 14:00 | 13.3 | 223.0 | 12.5 | 225.0 | 12.8 | 223.0 |
| 14:15 | 13.5 | 224.0 | 12.5 | 225.0 | 13.0 | 223.0 |
| 14:30 | 13.5 | 224.0 | 12.5 | 225.0 | 13.0 | 223.0 |
| 14:45 | 13.8 | 224.0 | 12.5 | 225.0 | 13.0 | 223.0 |
| 15:00 | 13.8 | 224.0 | 12.5 | 225.0 | 13.0 | 223.0 |
| 15:15 | 13.8 | 224.0 | 12.5 | 225.0 | 13.0 | 223.0 |
| 15:30 | 14.0 | 225.0 | 12.5 | 225.0 | 13.0 | 223.0 |
| 15:45 | 14.0 | 225.0 | 12.5 | 225.0 | 13.0 | 223.0 |
| 16:00 | 14.0 | 225.0 | 12.5 | 225.0 | 13.0 | 223.0 |
| 16:15 | 14.0 | 225.0 | 12.5 | 225.0 | 13.3 | 223.0 |
| 16:30 | 14.3 | 226.0 | 12.5 | 225.0 | 13.3 | 223.0 |
| 16:45 | 14.3 | 226.0 | 12.5 | 225.0 | 13.3 | 223.0 |
| 17:00 | 14.4 | 226.0 | 12.5 | 225.0 | 13.3 | 223.0 |
| 17:15 | 14.5 | 226.3 | 12.9 | 225.8 | 13.3 | 223.0 |
| 17:30 | 14.3 | 226.0 | 12.9 | 227.0 | 14.0 | 223.0 |
| 17:45 | 14.3 | 226.0 | 12.9 | 227.0 | 14.0 | 223.0 |
| 18:00 | 14.3 | 225.0 | 12.9 | 227.0 | 14.0 | 223.0 |
| 18:15 | 14.0 | 225.0 | 12.9 | 227.0 | 14.0 | 223.0 |
| 18:30 | 14.0 | 225.0 | 12.9 | 227.0 | 14.0 | 223.0 |
| 18:45 | 13.8 | 225.0 | 12.9 | 227.0 | 14.0 | 223.0 |
| 19:00 | 13.5 | 224.0 | 12.9 | 227.0 | 14.0 | 223.0 |
| 19:15 | 13.3 | 224.0 | 12.9 | 227.0 | 14.0 | 223.0 |
| 19:30 | 13.0 | 224.0 | 12.9 | 227.0 | 14.3 | 223.0 |
| 19:45 | 13.0 | 224.0 | 12.9 | 227.0 | 14.3 | 223.0 |
| 20:00 | 12.8 | 224.0 | 12.9 | 227.0 | 14.3 | 223.0 |
| 20:15 | 12.5 | 224.7 | 12.9 | 229.1 | 14.6 | 220.0 |
| 20:30 | | | | | 14.7 | 219.7 |
| 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 | 13.2 | 223.9 | 12.4 | 224.8 | 13.1 | 223.1 |
| Max | 15.2 | 230.1 | 14.0 | 233.0 | 14.7 | 231.0 |
| Hr. of Max | 44 | 45 | 42 | 44 | 82 | 45 |
| Min | 10.1 | 216.2 | 9.2 | 208.2 | 10.5 | 219.7 |
| Count | 40 | 40 | 40 | 40 | 41 | 41 |
| Total | | | | | | |