

***Oak Ridge Reservation
Quality Assurance Report
for Meteorological Towers
For Towers A, B, C, K, L, M, W, Y***

Kevin R. Birdwell
Computational Science and Engineering Division
Oak Ridge National Laboratory

July 2010

Tower ID Summary:

<i>ID*</i>	<i>Name</i>	<i>Alternate Names</i>	<i>ORR Site</i>	<i>Elevation (m)</i>	<i>Easting, Northing (m)</i>	<i>Measuring Hts</i>
TOWA	Tower A	MT4 , 7571	ORNL	263	743179,3978105	10,30
TOWB	Tower B	MT3, 6555, 07	ORNL	256	743398,3979683	10,30
TOWC	Tower C	MT2, 1057, 03	ORNL	261	741423,3978768	10,30,100
TOWK	Tower K	MT1, 1208	ETTP	253	735675,3979503	10,60
TOWL	Tower L	MT7, 1209	ETTP	233	735110,3978654	10,30
TOWM	Tower M	MT10, 208A	ETTP	237	735720,3976860	10
WEST	Tower W	MT6, Y12W, West	Y12	326	748890,3986700	10,60
TOWY	Tower Y	MT9, PSS Tower	Y12	290	747926.3985859	15, 33
M001	T001	Oak Ridge ATDD	NOAA			
M003	T003	Oak Ridge Municipal	NOAA			
M110	T110	OR/Y-12 Water Plant	NOAA			
M112	T112	Lenoir City Fire Tower	NOAA			
M113	T113	Heiskell Fire Tower	NOAA			
M114	T114	Sharp's Ridge Fire Tower	NOAA			
M115	T115	Morristown NWS Office	NOAA			
M116	T116	Madisonville Fire Tower	NOAA			
M117	T117	Pone Knob/Decatur Fire Tower	NOAA			
M119	T119	ORR Walker Branch Tower	NOAA			
M220	T220	Powell Mt. / Tazewell Fire Tower	NOAA			
M222	T222	Purchase Knob, NC	NOAA			
M223	T223	Cove Mt. Fire Tower	NOAA			
M225	T225	English Mt. Fire Tower	NOAA			
M226	T226	Roosevelt Mt./Rockwood Fire Tower	NOAA			
M227	T227	Walnut Mt. / LaFollette Fire Tower	NOAA			

*Note: Towers A, B, C, K, L, M are listed in the DATA MISSING sections only when data are missing.

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Thursday, July 1, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
 WEST 0
 M001 0
 M003 17 0030 0130 0245 0445 0715 0830 0930 1015 1045 1300 1415 1515 1545 1730 1830 2100 2315
 M110 30 0000 0115 0200 0245 0315 0400 0445 0515 0645 0715 0800 0845 0930 1115 1215 1245 1330 1415 1500 1545 1630
 1715 1745 1845 1915 1945 2030 2115 2200 2300
 M113 0
 M115 0
 M116 96 All
 M119 96 All
 M220 0
 M222 95 All except 0000
 M223 95 All except 0000
 M225 95 All except 0000
 M226 95 All except 0000
 M227 95 All except 0000

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes
 None

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Friday, July 2, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
WEST 0
M001 0
M003 30 0000 0030 0045 0100 0115 0130 0145 0200 0245 0400 0500 0530 0615 0715 0815 0930 1045 1145 1300 1345 1415
1515 1630 1730 1845 1915 2000 2100 2200 2315
M110 30 0000 0015 0030 0045 0215 0415 0530 0615 0700 0730 0815 0900 0945 1015 1100 1130 1230 1345 1430 1515 1545
1630 1715 1745 1915 2015 2115 2200 2245 2330
M113 0
M115 0
M116 96 All
M119 96 All
M220 1 1745
M222 95 All except 0000
M223 95 All except 0000
M225 95 All except 0000
M226 95 All except 0000
M227 95 All except 0000

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

None

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Saturday, July 3, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
WEST 0
M001 0
M003 30 0000 0030 0045 0100 0115 0130 0145 0200 0245 0400 0500 0530 0615 0715 0815 0930 1045 1145 1300 1345 1415
1515 1630 1730 1845 1915 2000 2100 2200 2315
M110 30 0000 0015 0030 0045 0215 0415 0530 0615 0700 0730 0815 0900 0945 1015 1100 1130 1230 1345 1430 1515 1545
1630 1715 1745 1915 2015 2115 2200 2245 2330
M113 0
M115 0
M116 96 All
M119 96 All
M220 1 1745
M222 95 All except 0000
M223 95 All except 0000
M225 95 All except 0000
M226 95 All except 0000
M227 95 All except 0000

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Sunday, July 4, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308

Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0

WEST 0

M001 0

M003 23 0030 0130 0245 0315 0345 0500 0615 0700 0830 0945 1045 1200 1230 1300 1415 1515 1630 1745 1845 2000 2045
2215 2315

M110 15 0030 0130 0230 0445 0545 0915 0945 1045 1145 1315 1415 1515 2045 2200 2245

M113 0

M115 0

M116 96 All

M119 96 All

M220 0

M222 95 All Except 0000

M223 95 All except 0000

M225 95 All except 0000

M226 95 All except 0000

M227 95 All except 0000

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

None

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Monday, July 5, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
 WEST 0
 M001 0
 M003 25 0030 0145 0215 0245 0400 0500 0615 0715 0745 0830 0930 1030 1200 1300 1415 1515 1600 1630 1730 1845 2000
 2100 2130 2215 2315
 M110 15 0000 0030 0115 0245 0430 0700 0730 1230 1330 1545 1700 1815 2045 2115 2300
 M113 0
 M115 0
 M116 96 All
 M119 96 All
 M220 0
 M222 95 All Except 0000
 M223 95 All except 0000
 M225 95 All except 0000
 M226 95 All except 0000
 M227 95 All except 0000

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

None

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Tuesday, July 6, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>																								
TOWY	4	0915	1115	1200	2330																					
WEST	4	0915	1115	1200	2330																					
M001	4	0900	1100	1145	2315																					
M003	26	0015	0100	0115	0130	0245	0345	0500	0545	0615	0715	0830	0900	0945	1045	1115	1145	1300	1400	1515	1630	1730	1930	2000		
		2100	2215	2315																						
M110	16	0000	0045	0245	0500	0530	0900	1100	1145	1245	1330	1700	1730	1930	2130	2315	2330									
M113	7	0900	1100	1145	1615	1915	2015	2315																		
M115	3	1000	1200	1245																						
M116	96	All																								
M119	96	All																								
M220	5	0930	1000	1115	1200	2330																				
M222	51	0015	0030	0045	0100	0115	0130	0145	0200	0215	0230	0245	0300	0315	0330	0345	0400	0415	0430	0445	0500	0515	0530	0545		
		0600	0615	0630	0645	0700	0715	0730	0745	0800	0815	0830	0845	0900	0915	0930	0945	1000	1015	1015	1100	1145	1215	1445	1515	1745
		2045	2200	2315																						
M223	46	0015	0030	0045	0100	0115	0130	0145	0200	0215	0230	0245	0300	0315	0330	0345	0400	0415	0430	0445	0500	0515	0530	0545		
		0600	0615	0630	0645	0700	0715	0730	0745	0800	0815	0830	0845	0900	0915	0930	0945	1000	1015	1015	1100	1145	1515	2315		
M225	47	0015	0030	0045	0100	0115	0130	0145	0200	0215	0230	0245	0300	0315	0330	0345	0400	0415	0430	0445	0500	0515	0530	0545		
		0600	0615	0630	0645	0700	0715	0730	0745	0800	0815	0830	0845	0900	0915	0930	0945	1000	1015	1015	1045	1100	1145	1400	2315	
M226	47	0015	0030	0045	0100	0115	0130	0145	0200	0215	0230	0245	0300	0315	0330	0345	0400	0415	0430	0445	0500	0515	0530	0545		
		0600	0615	0630	0645	0700	0715	0730	0745	0800	0815	0830	0845	0900	0915	0930	0945	1000	1015	1015	1045	1100	1145	1730	2330	
M227	47	0015	0030	0045	0100	0115	0130	0145	0200	0215	0230	0245	0300	0315	0330	0345	0400	0415	0430	0445	0500	0515	0530	0545		
		0600	0615	0630	0645	0700	0715	0730	0745	0800	0815	0830	0845	0900	0915	0930	0945	1000	1015	1045	1100	1130	1215	1315	2330	

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes
 None

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Wednesday, July 7, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
 WEST 0
 M001 0
 M003 23 0030 0100 0130 0245 0345 0500 0615 0715 0830 0915 1045 1200 1300 1415 1445 1515 1630 1730 1845 2000 2100
 2215 2300
 M110 21 0045 0130 0315 0345 0430 0500 0630 0800 0900 0930 1100 1400 1445 1545 1630 1700 1845 2045 2145 2215 2330
 M113 6 0045 0745 1130 1745 2000 2200
 M114 96 All
 M115 1 0015
 M116 96 All
 M119 96 All
 M220 0
 M222 12 0030 0045 0400 0600 0815 0830 1015 1100 1445 1600 1945 2030
 M223 0
 M225 1 0815
 M226 0
 M227 0

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes
 None

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Thursday, July 8, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>																								
TOWY	6	0745	0800	0815	0915	1500	1715																			
WEST	6	0745	0800	0815	0915	1500	1715																			
M001	6	0730	0745	0800	0815	1445	1700																			
M003	28	0030	0130	0245	0345	0430	0500	0615	0715	0745	0800	0815	0930	1045	1200	1245	1415	1445	1515	1630	1700	1730	1815	1845		
		2000	2100	2215	2315	2345																				
M110	21	0030	0215	0400	0445	0545	0645	0730	0745	0800	0815	0930	1130	1200	1330	1445	1600	1645	1715	1900	2100	2130				
M113	14	0145	0330	0730	0745	0800	0815	1115	1300	1330	1400	1445	1515	1700	2315											
M114	96	All																								
M115	6	0915	0930	0945	1000	1545	1800																			
M116	93	0000	0015	0030	0045	0100	0115	0130	0145	0200	0215	0230	0245	0300	0315	0330	0345	0400	0415	0430	0445	0500	0515	0530		
		0545	0600	0615	0630	0645	0700	0715	0730	0800	0815	0915	0915	0930	0945	1000	1015	1030	1045	1100	1115	1130	1145	1200	1215	1230
		1245	1300	1315	1330	1345	1400	1415	1430	1445	1500	1515	1530	1545	1600	1615	1630	1645	1700	1715	1730	1745	1800	1815	1830	1845
		1900	1915	1930	1945	2000	2015	2030	2045	2100	2115	2130	2145	2200	2215	2230	2245	2300	2315	2330	2345					
M119	93	0000	0015	0030	0045	0100	0115	0130	0145	0200	0215	0230	0245	0300	0315	0330	0345	0400	0415	0430	0445	0500	0515	0530		
		0545	0600	0615	0630	0645	0700	0715	0730	0800	0815	0915	0915	0930	0945	1000	1015	1030	1045	1100	1115	1130	1145	1200	1215	1230
		1245	1300	1315	1330	1345	1400	1415	1430	1445	1500	1515	1530	1545	1600	1615	1630	1645	1700	1715	1730	1745	1800	1815	1830	1845
		1900	1915	1930	1945	2000	2015	2030	2045	2100	2115	2130	2145	2200	2215	2230	2245	2300	2315	2330	2345					
M220	6	0800	0815	0915	0915	1500	1715																			
M222	17	0000	0045	0130	0245	0300	0315	0430	0500	0630	0730	0800	0815	0915	1230	1315	1445	1700								
M223	6	0730	0800	0815	0915	1445	1700																			
M225	7	0730	0800	0815	0915	1445	1700	2300																		
M226	6	0800	0815	0915	0915	1500	1715																			
M227	6	0745	0800	0815	0915	1500	1715																			

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes
None

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Friday, July 9, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site	No.	Time Ranges
TOWY	4	0715 1345 1530 2300
WEST	4	0715 1345 1530 2300
M001	4	0700 1330 1515 2245
M003	26	0030 0130 0230 0300 0315 0345 0500 0615 0700 0715 0800 0830 0930 1045 1300 1330 1415 1500 1615 1730 1845 2100 2145 2215 2245 2315
M110	20	0000 0215 0345 0430 0700 0715 0815 1115 1245 1315 1345 1515 1545 1630 1815 1915 1945 2245 2300 2345
M113	15	0145 0415 0700 0745 1045 1145 1215 1330 1430 1445 1515 1730 1845 1945 2245
M114	96	All
M115	4	0800 1430 1615 2345
M116	96	All
M119	96	All
M220	4	0715 1345 1530 2300
M222	21	0130 0145 0345 0515 0700 0800 0830 0930 1000 1330 1400 1415 1515 1545 1600 1700 1815 1830 2015 2230 2300
M223	4	0700 1330 1515 2245
M225	5	0700 1330 1515 2245 2330
M226	4	0715 1345 1530 2300
M227	7	0715 1345 1430 1445 1500 1530 2300

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

Site	Status	Time Ranges	Pct Recovery	Special Notes
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	ERR	1300-2345	54.0	WS60 60-m wind speed values in error (likely damage from thunderstorm passage)
	OK		100.0	Other
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Line of Tstorms formed on edge of Cumberland Plateau and moved East across ORR around 1300-1400 hrs; lines of storms/showers continued to move across area from W to E for several hours afterwards.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Saturday, July 10, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site	No.	Time Ranges
TOWY	2	1000 1430
WEST	2	1000 1430
M001	2	0945 1415
M003	22	0030 0130 0245 0315 0400 0500 0600 0715 0830 0930 1045 1130 1200 1300 1415 1630 1700 1730 1945 2100 2215 2315
M110	16	0115 0230 0500 0615 0645 0730 0815 0900 0945 1130 1300 1415 1515 1830 2200 2245
M113	19	0015 0245 0345 0630 0645 0715 0930 0945 1045 1145 1245 1400 1415 1800 2015 2030 2130 2145 2200
M114	96	All
M115	2	1045 1515
M116	96	All
M119	96	All
M220	2	1000 1430
M222	20	0045 0230 0245 0315 0400 0900 0945 1015 1100 1115 1145 1230 1315 1415 1630 1730 1800 1815 1900 1915
M223	2	0945 1415
M225	3	0245 0945 1415
M226	2	1000 1430
M227	2	1000 1430

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

Site	Status	Time Ranges	Pct Recovery	Special Notes
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	ERR	0000-2345	0.0 WS60	60-m wind speed values in error (likely damage from thunderstorm passage)
	OK		100.0 Other	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Cold front passage early AM hours

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Sunday, July 11, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
WEST 0
M001 0
M003 24 0030 0115 0245 0330 0345 0500 0615 0645 0715 0830 0930 1045 1200 1300 1415 1500 1630 1730 1845 2000 2030
2100 2215 2315
M110 30 0000 0045 0145 0300 0345 0430 0515 0545 0630 0700 0800 0830 0900 1000 1030 1200 1315 1400 1445 1530 1615
1645 1730 1800 1915 1945 2015 2100 2300 2330
M113 14 0200 0230 0430 0445 0515 0815 1345 1445 1530 1930 1945 2030 2130 2200
M114 96 All
M115 0
M116 96 All
M119 96 All
M220 0
M222 23 0015 0145 0200 0245 0330 0345 0400 0430 0630 1030 1045 1115 1130 1200 1215 1430 1500 1515 1530 1545 1615
1945 2000
M223 0
M225 0
M226 0
M227 0

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	ERR	0000-2345	0.0	WS60 60-m wind speed values in error (likely damage from thunderstorm passage)
	OK		100.0	Other
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

None

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Monday, July 12, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>																				
TOWY	0																					
WEST	0																					
M001	1	1445																				
M003	24	0030 0130 0200 0245 0400 0445 0615 0715 0830 0930 1015 1045 1200 1230 1300 1415 1515 1545 1730 1830 2000 2100 2215 2315																				
M110	29	0030 0145 0300 0345 0430 0515 0600 0630 0700 0800 0830 0915 1000 1030 1130 1245 1330 1445 1530 1600 1645 1730 1815 1900 1945 2015 2145 2300 2345																				
M112	59	0000 0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630 0645 0700 0715 0730 0745 0800 0815 0830 0845 0900 0915 0930 0945 1000 1015 1030 1045 1100 1115 1130 1145 1200 1215 1230 1245 1300 1315 1330 1345 1400 1415 1430																				
M113	11	0130 0415 0645 0700 0715 0800 0815 1215 1400 1415 1445																				
M114	96	All																				
M115	0																					
M116	96	All																				
M117	96	All																				
M119	96	All																				
M220	1	0645																				
M222	9	0445 0515 0800 0815 0845 0900 1930 1945 2030																				
M223	0																					
M225	0																					
M226	0																					
M227	0																					

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	ERR	0000-2345	0.0 WS60	60-m wind speed values in error (likely damage from thunderstorm passage)
	OK		100.0	Other
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Thundershower crossed ORR from W to E around 0400 hrs.

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Tuesday, July 13, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>																		
TOWY	3	0815 1345 1945																		
WEST	3	0815 1345 1945																		
M001	3	0800 1330 1930																		
M003	31	0000 0030 0130 0245 0345 0500 0530 0615 0715 0800 0815 0930 0945 1000 1015 1045 1300 1330 1345 1415 1515 1545 1600 1630 1730 1845 1915 2000 2100 2200 2315																		
M110	30	0030 0145 0300 0345 0430 0515 0545 0645 0715 0800 0830 0915 1000 1045 1130 1245 1330 1415 1445 1530 1615 1645 1815 1845 1930 2000 2100 2145 2230 2300																		
M112	3	0800 1330 1930																		
M113	3	0800 1330 1930																		
M114	96	All																		
M115	3	0900 1430 2030																		
M116	96	All																		
M117	96	All																		
M119	96	All																		
M220	3	0815 1345 1945																		
M222	16	0015 0230 0315 0800 0900 0945 1000 1030 1145 1230 1245 1330 1445 1500 1930 2130																		
M223	3	0800 1330 1930																		

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	ERR	0000-2345	0.0 WS60	60-m wind speed values in error (likely damage from thunderstorm passage) Precip gauge partially clogged; clear by Shaw Env. on 07/14/2010.
	ERR	0000-2345	0.0 Precip	
Tower L	OK		100.0 Other	Precip gauge partially clogged; clear by Shaw Env. on 07/14/2010.
	ERR	0000-2345	0.0 Precip	
	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Thundershowers in area from 0400-0600 and 1600-1800 hrs.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Wednesday, July 14, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site	No.	Time Ranges
TOWY	2	0245 0345
WEST	2	0245 0345
M001	2	0230 0330
M003	25	0030 0130 0230 0245 0330 0400 0500 0615 0715 0830 0900 0930 1045 1145 1300 1415 1515 1545 1630 1715 1845 2000 2100 2245 2315
M110	33	0000 0030 0100 0145 0230 0300 0330 0400 0430 0515 0600 0715 0800 0830 0915 1000 1045 1115 1145 1245 1330 1415 1445 1530 1700 1815 1900 1945 2015 2100 2145 2215 2345
M112	2	0230 0330
M113	2	0230 0330
M114	96	All
M115	2	0330 0430
M116	96	All
M117	96	All
M119	96	All
M220	3	0245 0345 2200
M222	12	0115 0230 0315 0330 0500 0515 0530 0900 1000 1100 1245 1830
M223	3	0230 0330 1715
M225	All	
M226	All	
M227	All	

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

Site	Status	Time Ranges	Pct Recovery	Special Notes
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	ERR	0000-1645	29.0 WS60	60-m wind speed values in error (likely damage from thunderstorm passage); Repaired by Shaw 1645 hrs
	ERR	0000-1045	54.0 Precip	Precip gauge partially clogged; clear by Shaw Env. on 07/14/2010.
	OK		100.0 Other	
Tower L	ERR	0000-1145	50.0 Precip	Precip gauge partially clogged; clear by Shaw Env. on 07/14/2010.
	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Thundershowers in area from 0400-0600 and 1600-1800 hrs.

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Thursday, July 15, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
 WEST 0
 M001 0
 M003 22 0030 0130 0245 0345 0500 0615 0700 0830 0930 1045 1200 1230 1300 1415 1515 1630 1730 1845 2000 2045 2215
 2330
 M110 24 0015 0100 0200 0315 0400 0700 0800 0915 1015 1045 1130 1300 1400 1500 1530 1615 1700 1730 1900 1945 2030
 2100 2230 2315
 M112 0
 M113 0
 M114 96 All
 M115 0
 M116 96 All
 M117 96 All
 M119 96 All
 M220 0
 M222 24 0115 0130 0200 0400 0530 0715 0800 0945 1000 1030 1045 1215 1330 1345 1400 1430 1730 1900 1915 2000 2145
 2200 2215 2245
 M223 0

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes
 None

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Friday, July 16, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY	0	
WEST	0	
M001	0	
M003	20	0030 0130 0215 0245 0345 0500 0615 0715 0830 0930 1030 1145 1300 1415 1515 1600 1630 1845 2000 2130
M110	21	0000 0115 0145 0315 0400 0445 0515 0600 0645 0830 0930 1015 1130 1200 1330 1415 1500 1545 1800 1845 2000
M112	1	0215
M113	0	
M114	96	All
M115	0	
M116	96	All
M117	96	All
M119	96	All
M220	1	0845
M222	18	0500 0630 1100 1200 1430 1445 1530 1545 1600 1615 1630 1645 1715 1730 1930 1945 2200 2345
M223	0	
M225	0	
M226	0	
M227	0	

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

None

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Saturday, July 17, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>																				
TOWY	0																					
WEST	0																					
M001	0																					
M003	13	0015 0145 0300 0400 0545 0730 0830 1115 1200 1645 1715 2000 2215																				
M110	13	0115 0330 0515 0730 1345 1515 1645 1745 1930 2000 2015 2215 2315																				
M112	0																					
M113	0																					
M114	96	All																				
M115	0																					
M116	96	All																				
M117	96	All																				
M119	96	All																				
M220	0																					
M222	93	0015 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600																				
		0615 0630 0645 0700 0715 0730 0745 0815 0830 0845 0900 0915 0930 0945 1000 1015 1030 1045 1100 1115 1130 1145 1200 1215 1230																				
		1245 1300 1315 1330 1345 1400 1415 1430 1445 1500 1515 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845																				
		1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130 2145 2200 2215 2230 2245 2300 2315 2330 2345																				
M223	0																					
M225	0																					
M226	0																					
M227	0																					

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	ERR	0700-1345	71.0 All	Missing data (Power failure)
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes
 None

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Sunday, July 18, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
WEST 0
M001 0
M003 6 0030 0400 0630 0730 1745 2000
M110 16 0030 0215 0245 0600 0700 0815 0845 1030 1300 1500 1600 1700 1745 1830 2200 2315
M112 0
M113 0
M114 96 All
M115 0
M116 96 All
M117 96 All
M119 96 All
M220 0
M222 58 0000 0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500
0515 0530 0545 0600 0615 0630 0645 0700 0715 0730 0745 0800 0830 0845 0900 0930 0945 1000 1015 1030 1045 1100
1115 1130 1145 1200 1215 1230 1245 1300 1315 1400 1445 1600 2100 2130 2245
M223 1 1330
M225 1 0000
M226 1 1400
M227 0

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Thundershowers crossed ORR area around 1600 hrs / Lenticular clouds observed over Cumberland Mts. 1000 hrs.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Monday, July 19, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
WEST 0
M001 0
M003 17 0145 0400 0730 0830 0945 1045 1200 1300 1415 1530 1630 1730 1845 2000 2100 2215 2315
M110 22 0115 0330 0400 0615 0830 0845 1000 1045 1215 1300 1330 1415 1500 1545 1700 1730 1815 1845 1930 2000 2030 2230
M112 0
M113 0
M114 96 All
M115 0
M116 96 All
M117 96 All
M119 96 All
M220 1 0830
M222 47 0030 0100 0115 0230 0245 0330 0600 0830 1215 1345 1400 1415 1500 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745
1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130 2145 2200 2215 2230 2245 2300 2315 2330 2345
M223 1 0915
M225 2 1630 2030
M226 0
M227 0

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	Communication knocked out (Tstorm); restored 07/20/10.
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

MCS crossed ORR and North from WNW to ESE 0400-0700 hrs / Cumberland Mts. stationary large thunderstorm complex 1800 hrs. Around 1900 hrs the system radially advanced from the Cumberland Mts. crossing the ORR from NNW to SSE around 1900 hrs.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Tuesday, July 20, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
WEST 0
M001 0
M003 16 0030 0130 0245 0400 0615 0715 0830 0930 1145 1300 1415 1515 1630 1730 2215 2315
M110 26 0030 0115 0215 0315 0345 0445 0600 0715 0800 0830 0915 1015 1130 1300 1330 1415 1500 1530 1615 1700 1900 1945 2030
2145 2230 2345
M112 2 0845 1045
M113 0
M114 96 All
M115 0
M116 96 All
M117 96 All
M119 96 All
M220 1 1100
M222 96 All
M223 0
M225 1 0015
M226 2 0830 1100
M227 0

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	Internet communication restored 0915 hrs / data recovered.
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Line of thundershowers crossed ORR around 1400 hrs (PITS initiated); ORNL/ETTP were in precip gap and received no measurable precipitation; Y12 received measurable precip.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Wednesday, July 21, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>																			
TOWY	2	1615 1700																			
WEST	2	1615 1700																			
M001	2	1600 1645																			
M003	22	0030 0130 0245 0400 0500 0615 0715 0830 0930 1045 1200 1300 1415 1515 1600 1630 1730 1845 2000 2100 2215 2315																			
M110	31	0015 0115 0145 0245 0315 0430 0600 0645 0715 0800 0930 1015 1130 1200 1245 1315 1415 1500 1530 1600 1615 1645 1700 1745 1830 1900 1945 2115 2145 2230 2315																			
M112	2	1600 1645																			
M113	2	1600 1645																			
M114	96	All																			
M115	2	1700 1745																			
M116	96	All																			
M117	96	All																			
M119	96	All																			
M220	3	0315 1615 1700																			
M222	96	All																			
M223	2	1600 1645																			
M225	3	1100 1600 1645																			
M226	2	1615 1700																			
M227	2	1615 1700																			

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	Brief power outage around 0900-1000 hrs.
Tower L	OK		100.0	Rain gauge partial failure/ values substituted with Tower K
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Light thundershowers crossed ORR area from WNW to ESE around 1300-1800 hrs. Many of these exhibited "PITS" phenomena (forming on the edge of the Cumberland Mts. And Plateau and then weakening and reforming 10-20km to the east.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Thursday, July 22, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site	No.	Time Ranges
TOWY	0	
WEST	0	
M001	5	0815 0830 0845 0900 0930
M003	24	0030 0130 0245 0345 0500 0615 0715 0815 0830 0845 0900 0930 1045 1200 1300 1415 1515 1630 1730 1845 2000 2100 2215 2315
M110	25	0000 0115 0200 0245 0400 0515 0645 0715 0800 0830 0845 0900 1030 1130 1200 1330 1415 1515 1545 1700 1915 1945 2100 2200 2315
M112	5	0815 0830 0845 0900 0930
M113	6	0815 0830 0845 0900 0930 1300
M114	96	All
M115	4	0930 0945 1000 1030
M116	96	All
M117	96	All
M119	96	All
M220	3	0845 0900 0915
M222	96	All
M223	6	0815 0830 0845 0900 0915 0915
M225	8	0815 0830 0845 0900 0915 0930 1030 1045
M226	6	0815 0830 0845 0900 0915 0930
M227	6	0815 0830 0845 0900 0915 0930

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

Site	Status	Time Ranges	Pct Recovery	Special Notes
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	Rain gauge partial failure/ values substituted with Tower K
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Line of "PITS" thundershowers crossed ORR from WNW to ESE from 1300-1530 hrs.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Friday, July 23, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>																				
TOWY	0																					
WEST	0																					
M001	0																					
M003	21	0030	0130	0245	0400	0500	0615	0715	0830	0930	1045	1200	1300	1415	1515	1630	1730	1845	2000	2100	2215	2315
M110	21	0115	0330	0445	0530	0645	0815	0900	1045	1130	1300	1345	1430	1530	1630	1700	1830	1900	1945	2115	2145	2300
M112	0																					
M113	0																					
M114	96	All																				
M115	0																					
M116	96	All																				
M117	96	All																				
M119	96	All																				
M220	0																					
M222	96	All																				
M223	0																					
M225	2	0615	0715																			
M226	0																					
M227	0																					

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Line of "PITS" thundershowers attempted to form on eastern edge of Cumberland Plateau (1300 hrs) and moved across ORR from W to E after 1300 hrs; however, precipitating showers were not able to initiate due to upper level Cap.

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Saturday, July 24, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308

Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY	1	1530																				
WEST	1	1530																				
M001	1	1515																				
M003	22	0030	0130	0245	0400	0500	0615	0715	0830	0930	1045	1200	1300	1415	1515	1530	1630	1730	1845	2000	2100	2215
		2315																				
M110	22	0000	0115	0315	0415	0530	0730	0800	0900	1100	1300	1345	1500	1545	1715	1800	1830	1915	2000	2030	2100	2230
		2315																				
M112	1	1515																				
M113	1	1515																				
M114	96	All																				
M115	1	1615																				
M116	96	All																				
M117	96	All																				
M119	96	All																				
M220	1	1530																				
M222	96	All																				
M223	1	1530																				
M225	2	1530	1900																			
M226	1	1530																				
M227	1	1530																				

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

None

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Sunday, July 25, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>																					
TOWY	0																						
WEST	0																						
M001	0																						
M003	22	0030	0130	0230	0245	0330	0400	0500	0615	0715	0830	0930	1200	1300	1415	1515	1630	1730	1845	2000	2100	2215	2315
M110	21	0000	0130	0145	0200	0215	0400	0430	0815	0845	0915	1015	1200	1345	1515	1545	1700	1745	1945	2030	2145	2300	
M112	0																						
M113	0																						
M114	96	All																					
M115	0																						
M116	96	All																					
M117	96	All																					
M119	96	All																					
M220	0																						
M222	96	All																					
M223	0																						
M225	0																						
M226	0																						
M227	0																						

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

PITS-line developed 1300-1400 hrs and moved East into GV from 1500-1600 hrs. Weak and scattered showers occurred along line (no observed lightning).

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Monday, July 26, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
WEST 0
M001 0
M003 20 0030 0130 0245 0400 0500 0615 0715 0830 0930 1045 1200 1300 1415 1515 1730 1845 2000 2100 2215 2315
M110 18 0015 0115 0200 0300 0330 0515 0615 0930 1115 1315 1345 1500 1630 1700 1915 2130 2215 2330
M112 0
M113 0
M114 50 0000 0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530
0545 0600 0615 0630 0645 0700 0715 0730 0745 0800 0815 0830 0845 0900 0915 0930 0945 1000 1015 1030 1045 1100 1115 1130 1145
1200 1215
M115 0
M116 96 All
M117 96 All
M119 96 All
M220 1 0845
M222 96 All
M223 0
M225 0
M226 2 1045 2045
M227 0

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

PITS-line developed 1300-1400 hrs remained nearly stationary for an hour or so and moved slowly East into GV from 1400-1600 hrs. Scattered thundershowers occurred across the area including parts of the ORR.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Tuesday, July 27, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY	0																					
WEST	0																					
M001	0																					
M003	21	0030	0130	0245	0400	0500	0615	0715	0830	0930	1045	1145	1300	1415	1515	1630	1730	1845	1945	2100	2215	2315
M110	13	0030	0115	0130	0215	0600	0630	1345	1545	1630	1930	2045	2230	2330								
M112	0																					
M113	0																					
M114	0																					
M115	0																					
M116	96	All																				
M117	96	All																				
M119	96	All																				
M220	0																					
M222	96	All																				
M223	0																					
M225	1	1900																				
M226	1	1445																				
M227	0																					

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Scattered showers crossed area from W to E from 1000 to 1800 hrs.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Wednesday, July 28, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWY 0
WEST 0
M001 1 1515
M003 21 0030 0130 0245 0400 0500 0615 0715 0830 0930 1045 1145 1300 1415 1515 1630 1730 1845 2000 2100 2215 2315
M110 16 0000 0045 0330 0515 0800 0845 0930 1115 1200 1245 1500 1730 1815 2130 2245 2315
M112 2 1515 1530
M113 1 1515
M114 35 1515 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045
2100 2115 2130 2145 2200 2215 2230 2245 2300 2315 2330 2345
M115 2 1615 1630
M116 96 All
M117 96 All
M119 96 All
M220 1 1530
M222 62 0000 0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530
0545 0600 0615 0630 0645 0700 0715 0730 0745 0800 0815 0830 0845 0900 0915 0930 0945 1000 1015 1030 1045 1100 1115 1130 1145
1200 1215 1230 1245 1300 1315 1330 1345 1400 1415 1430 1445 1500 1530
M223 2 1530 1545
M225 2 1530 1545
M226 3 1145 1530 1545
M227 2 1530 1545

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Scattered but small mountain-wave showers and thundershowers crossed ORR from WNW to ESE during most of day.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Wednesday, July 28, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site No. Time Ranges

TOWB 43 1315-2345
TOWY 0
WEST 0
M001 35 1500 1515 1530 1545 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130
2145 2200 2215 2230 2245 2300 2315 2330 2345
M003 48 0030 0130 0245 0400 0500 0615 0715 0830 0930 1045 1145 1300 1415 1500 1515 1530 1545 1615 1630 1645 1700 1715 1730 1745 1800 1815
1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130 2145 2200 2215 2230 2245 2300 2315 2330 2345
M110 44 0000 0145 0245 0500 0545 0700 0815 1115 1300 1500 1515 1530 1545 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915
1930 1945 2000 2015 2030 2045 2100 2115 2130 2145 2200 2215 2230 2245 2300 2315 2330 2345
M112 35 1500 1515 1530 1545 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130
2145 2200 2215 2230 2245 2300 2315 2330 2345
M113 37 1415 1445 1500 1515 1530 1545 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100
2115 2130 2145 2200 2215 2230 2245 2300 2315 2330 2345
M114 95 All except 1600
M115 31 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130 2145 2200 2215 2230
2245 2300 2315 2330 2345
M116 95 All except 1500
M117 95 All except 1500
M119 95 All except 1500
M220 35 1515 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130
2145 2200 2215 2230 2245 2300 2315 2330 2345
M222 36 1300 1515 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115
2130 2145 2200 2215 2230 2245 2300 2315 2330 2345
M223 35 1515 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130
2145 2200 2215 2230 2245 2300 2315 2330 2345
M225 35 1515 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130
2145 2200 2215 2230 2245 2300 2315 2330 2345
M226 35 1515 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115 2130
2145 2200 2215 2230 2245 2300 2315 2330 2345
M227 36 1315 1515 1530 1545 1600 1615 1630 1645 1700 1715 1730 1745 1800 1815 1830 1845 1900 1915 1930 1945 2000 2015 2030 2045 2100 2115
2130 2145 2200 2215 2230 2245 2300 2315 2330 2345

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	ERR	1315-2345	56.0	Power failure
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

Scattered medium-scale mountain-wave showers and thundershowers crossed ORR from WNW to ESE during most of afternoon hours.

**Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Friday, July 30, 2010**

Compiled by KR Birdwell, MS6418, CSM/CSSED, ORNL, Phone 865.576.2308
Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

Site	No.	Time Ranges
TOWB	43	0000-1030
TOWY	1	1115
WEST	1	1115
M001	34	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 1100
M003	47	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 0830 0930 1045 1200 1300 1415 1515 1630 1730 1845 2000 2100 2215 2315
M110	45	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 1030 1315 1500 1645 1815 1900 1945 2015 2100 2145 2230 2300
M112	34	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 1100
M113	34	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 1100
M114	96	All
M115	38	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 0815 0830 0845 0900 1200
M116	96	All
M117	96	All
M119	96	All
M220	35	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 0815 1115
M222	34	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 1100
M223	35	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 0815 1100
M225	36	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 1000 1100 1500
M226	34	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 1100
M227	35	0015 0030 0045 0100 0115 0130 0145 0200 0215 0230 0245 0300 0315 0330 0345 0400 0415 0430 0445 0500 0515 0530 0545 0600 0615 0630
		0645 0700 0715 0730 0745 0800 0815 1100 1130

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

Site	Status	Time Ranges	Pct Recovery	Special Notes
Tower A	OK		100.0	
Tower B	ERR	0000-1045	56.0	Power failure
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes – Cold front passage early AM.

Oak Ridge Reservation
Daily Meteorological Tower Status Report for:
Saturday, July 31, 2010

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308
 Email birdwellkr@ornl.gov, Pager 865.873.7149

MISSING DATA STATUS – ALL TOWERS (15-Minute Data)

<i>Site</i>	<i>No.</i>	<i>Time Ranges</i>
TOWY	0	
WEST	0	
M001	0	
M003	23	0030 0130 0245 0330 0345 0400 0500 0615 0715 0830 0930 1045 1200 1300 1415 1515 1630 1730 1845 2000 2100 2215 2315
M110	20	0000 0115 0145 0215 0245 0445 0545 0715 0815 1045 1200 1330 1515 1715 1745 1815 1900 1945 2115 2300
M112	0	
M113	1	1530
M114	96	All
M115	0	
M116	96	All
M117	96	All
M119	96	All
M220	0	
M222	1	0045
M223	0	
M225	2	1630 2330
M226	0	
M227	0	

FLAGGED INSTRUMENT / SOFTWARE ERRORS – ORR ONLY (15-Minute Data)

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower A	OK		100.0	
Tower B	OK		100.0	
Tower C	OK		100.0	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Weather Notes

MCS-Type system accompanied by thunderstorms crossed ORR from NW-SE around 1300-1800 hrs bringing 0.75-1.00 inches of rain.