

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

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**January 2010**

**Tower ID Summary:**

<i>Name</i>	<i>Alternate Names</i>	<i>ORR Site</i>	<i>Elevation (m)</i>	<i>Easting, Northing (m)</i>	<i>Measuring Hts</i>
Tower A	MT4, 7571	ORNL	263	743179,3978105	10,30
Tower B	MT3, 6555, 07	ORNL	256	743398,3979683	10,30
Tower C	MT2, 1057, 03	ORNL	261	741423,3978768	10,30,100
Tower K	MT1, 1208	ETTP	253	735675,3979503	10,60
Tower L	MT7, 1209	ETTP	233	735110,3978654	10,30
Tower M	MT10, 208A	ETTP	237	735720,3976860	10
Tower W	MT6, Y12W, West	Y12	326	748890,3986700	10,60
Tower Y	MT9, PSS Tower	Y12	290	747926.3985859	15, 33

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Friday, January 1, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

NETWORK INTERRUPTIONS

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
<i>None</i>			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Cold front passage early AM hours.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Saturday, January 2, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	ERR	0900-0945, 1100-1445	71.0	71.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

Special Notes

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

Weather Notes

High temperature remained below freezing; dusting of snow AM hours.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Sunday, January 3, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0900-1645	67.0	67.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	ERR	0400-0445	96.0	96.0	All	Missing data (Y12 network error?)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

High temperature remained below freezing.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Monday, January 4, 2010  
 Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308  
 Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	ERR	0900-1545	71.0	71.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
Tower C	1920-2345	100.0% (60 and 15-min)	Sluggish/locked up internet communications with Tower C; Tower C data logger seems to be responsible (cold weather issues?)

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

High temperature remained below freezing; trace of snowfall observed.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Tuesday, January 5, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	ERR	0900-1945	54.0	54.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		Light bulbs placed in Tower C white box to provide heat for logger and converter.
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

Affected Systems	Time Range	%Data Recovered	Cause/Repair
Tower C	0000-1730	100.0% (60 and 15-min)	Sluggish/locked up internet communications with Tower C; Tower C data logger seems to be responsible (cold weather issues?)

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

High temperature remained below freezing (4<sup>th</sup> day in a row)

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Wednesday, January 6, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	ERR	0900-1845	60.0	60.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

Special Notes

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

Weather Notes

None



**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Thursday, January 7, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	1200-2145	60.0	60.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Arctic cold frontal passage around 1800 hrs; 0.6 inches of snowfall measured by midnight.; temperature remained below freezing all day

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Friday, January 8, 2010  
 Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.576.2308  
 Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	1500-1745	88.0	88.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	1030	99.0	100.0	All	Missing 15-min data (Y12 network error)
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Trace of snowfall; temperatures remained below freezing all day.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Saturday, January 9, 2010

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

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SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	ERR	1200-1945	67.0	67.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

Special Notes

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

Weather Notes

0.2 inches of snowfall (mostly in early evening); temperatures remained below freezing all day

Mountain-wave induced snowband appeared to form around 1830-2000 hrs moving from N to S from the Cumberland Mts; snow band affected Oak Ridge and Oak Ridge Reservation.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Sunday, January 10, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0800-1945	50.0	50.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Trace of snowfall (morning); temperatures remained below freezing all day

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Monday, January 11, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0900-2245	40.0	40.0	Temp10  Precip	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values Temp sensor tested 1400-1545 hrs. Newly installed rain gauge tested by Shaw Env. and programmed by KR Birdwell.
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Trace of snowfall (evening).

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Tuesday, January 12, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0100-2345	4.0	4.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	1130, 1700	98.0	100.0	All	Missing 15-min data (Y12 network error)
Tower Y	ERR	1130, 1700	98.0	100.0	All	Missing 15-min data (Y12 network error)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Trace of snowfall (morning); temperature remained below freezing entire day

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Wednesday, January 13, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0900-1745	64.0	64.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	ERR	1100-1130	97.0	96.0	All	Missing 15-min data (Y12 network error)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

None

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Thursday, January 14, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0900-1745	64.0	64.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	ERR	1100-1130	97.0	96.0	All	Missing 15-min data (Y12 network error)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

None



**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Friday, January 15, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	ERR	0800-1645	64.0	64.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

Special Notes

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

Weather Notes

None

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Saturday, January 16, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0700-1645	60.0	60.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	ERR	1600-1945	80.0	80.0	All Sensors	Missing data (communication errors)
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

None

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Sunday, January 17, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

NETWORK INTERRUPTIONS

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
<i>None</i>			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

None

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Monday, January 18, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	ERR	1000-1645	71.0	71.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

Special Notes

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

Weather Notes

None

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Tuesday, January 19, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	1000-1345	84.0	84.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	ERR	2245	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

None

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Wednesday, January 20, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	ERR	0800-1000	91.0	92.0	All	Missing data (power failure?)
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Stationary front straddled east-west across area.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Thursday, January 21, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	ERR	1845-2145	87.0	88.0	All	Missing data (Lightning-related power failure) Temp 10 values corrected.
Tower L	ERR	0000-1100	53.0	54.0	TM10	
	OK		100.0	100.0	Other	
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	ERR	2115	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Thunderstorms crossed area from SW to NE from 1830-2000 hrs.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Friday, January 22, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0400-0945	75.0	75.0	TM10	Temp 10 values corrected.
	OK		100.0	100.0	Other	
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	ERR	2045	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

None



**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Saturday, January 23, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	ERR	1100-1345	88.0	88.0	Temp10	10-m Temp values are anomalously (high 0.5-1.0C); Values corrected using Tower B/C DT values
	OK		100.0	100.0	All Other Sensors	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	2345	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)
Tower Y	ERR	2345	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

**NETWORK INTERRUPTIONS**

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

None

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Sunday, January 24, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	0615	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)
Tower Y	ERR	0615	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Thundershowers crossed ORR area from SW to NE around 0800 hrs.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Monday, January 25, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
<i>None</i>			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Cold front passage approx. 0600-0900 hours.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Tuesday, January 26, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	1300	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)
Tower Y	ERR	1300	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Snow showers observed mid-late morning.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Wednesday, January 27, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	1030	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)
Tower Y	ERR	1030	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

Special Notes

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

Weather Notes

None

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Thursday, January 28, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

SITE STATUS (Instrumentation, 15-Minute Data Collection)

Site Name	Status	Time Range	% Data Recovered		Sensors Affected	Comments
			15-min	60-min		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	2230	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)
Tower Y	ERR	2230	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

NETWORK INTERRUPTIONS

Affected Systems	Time Range	%Data Recovered	Cause/Repair
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Cold front passage during early-mid afternoon.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Friday, January 29, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	OK		100.0	100.0		
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	1030, 1100-1115	97.0	100.0	All	Missing 15-min data (Y-12 network timing error?)
Tower Y	ERR	1030, 1100-1115	97.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Special Notes*

Wind speed threshold is 0.5 mph on all sites unless otherwise noted.

*Weather Notes*

Snowfall began mid-afternoon, mixed with freezing rain and sleet during the late evening; approx. 3.0 inches fell by midnight.

**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Saturday, January 30, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0400-1345	60.0	60.0	Wspd 10	10-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	ERR	0400-2345	12.0	12.0	Wspd 30	
	OK		100.0	100.0	Other Instruments	
Tower B	OK		100.0	100.0		
Tower C	ERR	0200-1345	44.0	44.0	Wspd 10	10-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	ERR	0400-1145	64.0	64.0	Wspd 30	30-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	ERR	0200-2345	8.0	8.0	Wspd 100	100-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	OK		100.0	100.0	Other Instruments	
Tower K	ERR	0200-2345	8.0	8.0	Wspd 10	10-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	ERR	0300-2345	12.0	12.0	Wspd 60	60-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	OK		100.0	100.0	Other Instruments	
Tower L	OK		100.0	100.0		
Tower M	ERR	0600-1345	67.0	67.0	Wspd 10	10-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	OK		100.0	100.0	Other Instruments	
Tower W	OK		100.0	100.0		
Tower Y	OK		100.0	100.0		

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Weather Notes*

Moderate freezing rain and rain 0000-0200 hours; snow, sleet and freezing rain after about 0200 hrs; Snowfall after midnight (including during the daytime hours) totaled about 0.8 inch.



**Oak Ridge Reservation  
Daily Meteorological Tower Status Report for:**

Sunday, January 31, 2010

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

Email [birdwellkr@ornl.gov](mailto:birdwellkr@ornl.gov), Pager 865.873.7149

**SITE STATUS (Instrumentation, 15-Minute Data Collection)**

<i>Site Name</i>	<i>Status</i>	<i>Time Range</i>	<i>% Data Recovered</i>		<i>Sensors Affected</i>	<i>Comments</i>
			<i>15-min</i>	<i>60-min</i>		
Tower A	ERR	0000-1345	40.0	40.0	Wspd 30	30-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	OK		100.0	100.0	Other Instruments	
Tower B	OK		100.0	100.0		
Tower C	ERR	0000-1645	29.0	29.0	Wspd 100	100-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	OK		100.0	100.0	Other Instruments	
Tower K	ERR	0000-1345	40.0	40.0	Wspd 10	10-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	ERR	0000-1445	36.0	36.0	Wspd 60	60-meter wind speed values in error (due to ice frozen to wind monitor propeller mechanism)
	OK		100.0	100.0	Other Instruments	
Tower L	OK		100.0	100.0		
Tower M	OK		100.0	100.0		
Tower W	ERR	1415	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)
Tower Y	ERR	1415	99.0	100.0	All	Missing 15-min data (Y-12 network timing error?)

**NETWORK INTERRUPTIONS**

<i>Affected Systems</i>	<i>Time Range</i>	<i>%Data Recovered</i>	<i>Cause/Repair</i>
None			

*Weather Notes*

Snow remains on the ground (affected the vertical temperature gradient near the ground)