

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

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Oak Ridge National Laboratory

**September 2009**

**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:**

Tuesday, September 1, 2009

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	ERR	0000-1305	38.0	40.0	Wind Dir 100m	Wind direction values at 100 meters are suspect; (correct by adding 50 degrees to hourly values) Wind speed values at 100 meters in error (repair to wind monitor by Shaw Environmental)
	ERR	1305-1421	94.0	96.0	Wind Spd 100m	
	OK		100.0	100.0	Other	
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*

Easterly winds within Great Valley appear to aid cloud and shower formation along the Cumberland Escarpment (up and down the western length of the Great Valley).

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

Wednesday, September 2, 2009

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	ERR	1414-2359	57.0	56.0	All 10-meter Level	10-meter level instruments taken offline by Shaw Environmental; instruments to be raised to 15-meter level (for better tree flow clearance). 30-meter sensors temporarily moved to 15-meters.
	OK		100.0	100.0	Other	
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*

Upper level low in area caused sporadic light sprinkles and rain showers during the day but especially early AM.

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

Thursday, September 3, 2009

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	ERR	0000-1543	41.0	40.0	All 10-meter Level	10-meter level instruments taken offline by Shaw Environmental; instruments to be raised to 15-meter level (for better tree flow clearance). 30-meter sensors temporarily moved to 15-meters.
			0.0	0.0	Relative Humidity (15m)	Values in errors (program error?)
Tower C	OK		100.0	100.0	Other	
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*

Upper level low in area caused sporadic light sprinkles and rain showers during the day.

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

Friday, September 4, 2009

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	ERR	0000-1104	52.0	52.0	RH at 15-meter Level	Values in error (programming error); repaired by Shaw Environmental at 1104 hrs.
	OK		100.0	100.0	Other	
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	0700-0715, 1215-1430 2315	86.0	88.0	All	Missing data (Y-12 network errors)
Tower Y	ERR	0700-0715, 1215-1430 2315	86.0	88.0	All	Missing data (Y-12 network errors)

**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, September 5, 2009

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>
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, September 6, 2009

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>
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:**

Monday, September 7, 2009

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	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

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*

Light thundershowers moved W to E from Cumberland Plateau across Anderson Co.

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

Tuesday, September 8, 2009

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

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**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>
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, September 9, 2009

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	1000-1145, 1500-2345	54.0	54.0	10m Temperature	Values intermittently in error (unknown cause)
	OK		100.0	100.0	Other	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-2045	12.0	12.0	10m Temperature	Temperature sensor undergoing calibrations (values in error)
	OK		100.0	100.0	Other	
Tower M	OK		100.0	100.0		
Tower W	ERR	1230	99.0	100.0	All	Missing 15-min data (Y12 network error)
Tower Y	ERR	1230	99.0	100.0	All	Missing 15-min data (Y12 network 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*

Thundershower development on eastern Cumberland Mts. and Plateau developed into mountain-wave storms/showers which affected parts of Anderson and Roane Counties from 1500-2200 hrs.

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

Thursday, September 10, 2009

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	0100-0545, 0800-1945	29.0	28.0	10m Temperature	Temperature sensor undergoing calibrations (values in error)
	OK		100.0	100.0	Other	
Tower M	ERR	1703-1849	92.0	92.0	All	Missing data (power failure)
Tower W	ERR	1015	99.0	100.0	All	Missing 15-min data (Y12 network error)
Tower Y	ERR	1015	99.0	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*

Thundershowers developed during the evening over the Oak Ridge Reservation (after 2000 hrs).

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

Friday, September 11, 2009

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	0000-0145, 0600-0745 1000-1545, 1900-2345	36.0	36.0	10m Temperature	Temperature sensor undergoing calibrations (values in error)
	OK		100.0	100.0	Other	
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*

Thundershowers crossed north Anderson Co. from NNW to SSE around 1800 hrs.

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

Saturday, September 12, 2009

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

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**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	0500-1645, 2000-2045	36.0	36.0	10m Temperature	Values intermittently in error (unknown cause)
	OK		100.0	100.0	Other	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-0945	60.0	60.0	10m Temperature	Temperature sensor undergoing calibrations (values in error)
	OK		100.0	100.0	Other	
Tower M	OK		100.0	100.0		
Tower W	ERR	0515	99.0	100.0	All	Missing 15-min data (Y12 network error)
Tower Y	ERR	0515	99.0	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*

None

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

Sunday, September 13, 2009

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>
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:**

Monday, September 14, 2009

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	ERR	1252-1327	97.0	96.0	Temp 15m	All temperature channels at 15m reprogrammed to reflect move of sensors from 10m to 15m (9/2/09).
	ERR	1321-1411	97.0	96.0	Winds 15m	All wind channels at 15m reprogrammed to reflect move of sensors from 10m to 15m (9/2/09)
	OK		100.0	100.0	Other	
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	1100	99.0	100.0	All	Missing 15-min data (Y12 network errors)
Tower Y	ERR	1100	99.0	100.0	All	Missing 15-min data (Y12 network errors)

**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:**

Tuesday, September 15, 2009

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	0000-2159	8.0	8.0	Temp 10m	Temp values in
	OK		100.0	100.0	Other	
Tower B	ERR	0952-1112	94.0	96.0	All	Missing data (power failure)
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*

None

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

Wednesday, September 16, 2009

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>
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, September 17, 2009

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	1000-1745	68.0	68.0	Temp 10	Temp values in error
	OK		100.0	100.0	All Other	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	1500-2345	64.0	64.0	Precip	Precip gauge partially clogged; values substituted with K1208 values
	OK		100.0	100.0	All Other	
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*

None

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

Friday, September 18, 2009

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	0900-1445 2100-2345	63.0	63.0	Temp 10	Temp values in error (likely humidity / condensation problem with circuit board)
Tower B	OK ERR	1500-2345	100.0 63.0	100.0 63.0	All Other All 15m Sensors (TM, RH, WD)	All 15-meter sensor values in error (likely voltage card failure; possible lightning surge)
Tower C	OK		100.0	100.0	All Other	
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-0845	64.0	64.0	Temp 10	Temp values undergoing adjustments
Tower M	OK		100.0	100.0	Other	Note: Precip gauge values corrected
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*

Severe thunderstorm in Northern Anderson Co. including Norris around 1845-1945 hrs; Approx. 1.50 inches of rainfall; may have formed in near-stationary wave in lee side of mountain wave (approx. WSW-ENE flow across Cumberland Mts.); possible lighting/thunderstorm in area of ORNL around 1500 hrs.

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

Saturday, September 19, 2009

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	0000-2345	0.0	0.0	Temp 10	Temp values in error (likely humidity / condensation problem with circuit board)
	OK		100.0	100.0	All Other	
Tower B	ERR	0000-2345	0.0	0.0	All 15m Sensors (TM, RH, WD)	All 15-meter sensor values in error (likely voltage card failure; possible lightning surge)
	OK		100.0	100.0	All Other	
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-0745	67.0	67.0	Temp 10	Temp values undergoing adjustments
	OK		100.0	100.0	Other	Note: Precip gauge values corrected
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*

None

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

Saturday, September 19, 2009

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	0000-2345	0.0	0.0	Temp 10	Temp values in error (likely humidity / condensation problem with circuit board)
	OK		100.0	100.0	All Other	
Tower B	ERR	0000-2345	0.0	0.0	All 15m Sensors (TM, RH, WD)	All 15-meter sensor values in error (likely voltage card failure; possible lightning surge)
	OK		100.0	100.0	All Other	
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-0745	67.0	67.0	Temp 10	Temp values undergoing adjustments
	OK		100.0	100.0	Other	Note: Precip gauge values corrected
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*

None

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

Sunday, September 20, 2009

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	ERR	0000-2345	0.0	0.0	All 15m Sensors (TM, RH, WD)	All 15-meter sensor values in error (likely voltage card failure; possible lightning surge)
	OK		100.0	100.0	All Other	
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	2000-2345	67.0	67.0	Temp 10	Temp values undergoing adjustments
	OK		100.0	100.0	Other	Note: Precip gauge values corrected
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*

None

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

Monday, September 21, 2009

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	ERR	0000-2345	0.0	0.0	All 15m Sensors (TM, RH, WD)	All 15-meter sensor values in error (likely voltage card failure; possible lightning surge)
	ERR	1000-1145	88.0	88.0	All Other	Missing data (power failure)
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-1345, 1700-2345	12.0	12.0	Temp 10	Temp values undergoing adjustments
	OK		100.0	100.0	Other	Note: Precip gauge values corrected
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*

None



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

Tuesday, September 22, 2009

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	ERR	0000-1245	46.0	46.0	Temp 15m, Wind 15m	All 15-meter sensor values in error (likely voltage card failure; may be lightning related) Missing data (power failure – data logger switched out by Shaw Environmental).
	ERR	1200-1245	96.0	96.0	All Other	
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-1045, 2000-2345	12.0	12.0	Temp 10	Temp values in undergoing adjustments Precip gauge cleared at 0930 hrs
	OK		100.0	100.0	Other	
Tower M	OK		100.0	100.0		
Tower W	ERR	1530	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*

None

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

Wednesday, September 23, 2009

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 A guy wire truing performed by Shaw Environmental and UT-Battelle
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-1645	29.0	29.0	Temp 10	Temp values in undergoing adjustments
	OK		100.0	100.0	Other	
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, September 24, 2009

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 B guy wire truing performed by Shaw Environmental
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-2345	29.0	29.0	Temp 10	Temp values in undergoing adjustments
	OK		100.0	100.0	Other	
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>
Tower C	40% Intermittent	100.0	E-Das ftp transfer program error (troubleshooting in progress)

*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, September 25, 2009

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	0000-0800	29.0	29.0	Temp 10	Temp values in undergoing adjustments
	OK		100.0	100.0	Other	
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>
Tower C	80% Intermittent	100.0	E-Das ftp transfer program error (troubleshooting in progress)

*Special Notes*

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

*Weather Notes*

Thundershowers crossed Anderson Co. from SSW to NNE around 0700-0900 hrs.

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

Saturday, September 26, 2009

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	ERR	0000-2345	29.0	29.0	Temp 10	Temp values in undergoing adjustments
	OK		100.0	100.0	Other	
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	80% Intermittent	100.0	E-Das ftp transfer program error (troubleshooting in progress)

*Special Notes*

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

*Weather Notes*

Heavy rain occurred across area between 0600 and 1900 hrs (2.50 inches approx.); Occluded front passage during most of 24-hr period.

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

Sunday, September 27, 2009

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	ERR	0000-2345	29.0	29.0	Temp 10	Temp values in undergoing adjustments
	OK		100.0	100.0	Other	
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	80% Intermittent	100.0	E-Das ftp transfer program error (troubleshooting in progress)

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, September 28, 2009

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	1300-1745, 2200-2345	75.0	75.0	Temp 10	Temp values in error (likely humidity / condensation problem with circuit board)
	OK		100.0	100.0	All Other	
Tower B	OK		100.0	100.0		
Tower C	OK		100.0	100.0		
Tower K	OK		100.0	100.0		
Tower L	ERR	0000-0745	67.0	67.0	Temp 10	Temp values in undergoing adjustments
	OK		100.0	100.0	Other	
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	80% Intermittent	100.0	E-Das ftp transfer program error (troubleshooting in progress)

*Special Notes*

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

*Weather Notes*

Significant (temperature-wise) cold front passage around 0900-1300 hrs.

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

Tuesday, September 29, 2009

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	0400-0745	75.0	75.0	Temp 10	Temp values in undergoing adjustments
	OK		100.0	100.0	Other	
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>
Tower C	80% Intermittent	100.0	E-Das ftp transfer program error (troubleshooting in progress)

*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, September 30, 2009

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 C guy wire truing performed by Shaw Environmental.
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>
Tower C	85% Intermittent	100.0	E-Das ftp transfer program error (troubleshooting in progress)

*Special Notes*

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

*Weather Notes*

None