

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

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Computational Science and Engineering Division
Oak Ridge National Laboratory

January 2013

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
TOWS	Tower S	MT11	Y12	352		25
WEST	Tower W	MT6, Y12W, West	Y12	326	748890,3986700	10,60
TOWY	Tower Y	MT9, PSS Tower	Y12	290	747926.3985859	15, 33
M115	T115	Morristown NWS Office	NOAA			
M222	T222	Purchase Knob, NC	NOAA			

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Tuesday, January 1, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA 0
TOWB 0
TOWC 3 0700 0915 1615
TOWK 0
TOWL 0
TOWM 0
M115 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 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
TOWY 0
TOWS 0
WEST 0
TVAW 35 0015 0030 0045 0100 0130 0200 0215 0315 0345 0415 0445 0515 0545 0630 0700 0715 0745 0815 0845 0915 1000 1100 1130
1200 1230 1300 1330 1400 1430 1500 1530 1600 1630 1700 1730
TVCR 11 0015 0030 0045 0100 0115 0130 0145 0200 0630 0700 1915

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	ERR	0000-0045 0200-0345 0600-1645 1800-2345	16.0 TM100	100m Temp. values in error (wiring error)
	ERR	0000-0245 0700-0745 1800-1945	75.0 WS30	30m wind speed values in error (anomalously high threshold)
	OK		100.0 Other	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

Cold Front passage late PM

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Wednesday, January 2, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA 0
TOWB 0
TOWC 1 1030
TOWK 0
TOWL 0
TOWM 0
M115 54 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
M222 54 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
TOWY 0
TOWS 0
WEST 0
TVAW 20 0100 1215 1245 1315 1345 1415 1445 1545 1700 1715 1745 1815 1845 1930 2015 2130 2200 2230 2300 2330
TVCR 9 0100 0115 0130 0145 0200 0715 1700 1930 2045

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	ERR	0000-0245 0400-1045 1800-1945	50.0 TM100	100m Temp. values in error (wiring error)
	ERR	0400-0545	92.0 WS30	30m wind speed values in error (anomalously high threshold)
	OK		100.0 Other	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Thursday, January 3, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0	
TOWB	0	
TOWC	1	1030
TOWK	0	
TOWL	0	
TOWM	0	
M115	54	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
M222	54	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
TOWY	0	
TOWS	0	
WEST	0	
TVAW	20	0100 1215 1245 1315 1345 1415 1445 1545 1700 1715 1745 1815 1845 1930 2015 2130 2200 2230 2300 2330
TVCR	9	0100 0115 0130 0145 0200 0715 1700 1930 2045

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	ERR	0500-1245 1400-2045	36.0	TM100 100m Temp. values in error (wiring error)
	ERR	0100-0345 0700-0945 2300-2345	71.0	WS30 30m wind speed values in error (anomalously high threshold)
	OK		100.0	Other
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Friday, January 4, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0					
TOWB	0					
TOWC	0					
TOWK	0					
TOWL	0					
TOWM	0					
M115	1	0600				
M222	1	0600				
TOWY	0					
TOWS	0					
WEST	0					
TVAW	4	0030	0100	0215	0245	
TVCR	5	0100	0115	0130	0145	0200

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	ERR	0500-0545 0700-1145 1300-2345	29.0 TM100	100m Temp. values in error (wiring error)
	ERR	0000-0745 0900-1045 2200-2345	50.0 WS30	30m wind speed values in error (anomalously high threshold)
	OK		100.0 Other	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Saturday, January 5, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

Site # Missing Times

TOWA 0

TOWB 0

TOWC 2 0615 2030

TOWK 0

TOWL 0

TOWM 0

M115 38 1415 1430 1445 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 38 1415 1430 1445 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

TOWY 1 2145

TOWS 1 2145

WEST 1 2145

TVAW 1 0100

TVCR 6 0100 0115 0130 0145 0200 1515

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 ERR 0000-0645 29.0 TM100 100m Temp. values in error (wiring error)

1100-2045

2200-2345

ERR 0200-0745 75.0 WS30 30m wind speed values in error (anomalously high threshold)

OK 100.0 Other

Tower K OK 100.0

Tower L OK 100.0

Tower M OK 100.0

Tower S OK 100.0

Tower W OK 100.0

Tower Y OK 100.0

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Tuesday, January 8, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0	
TOWB	0	
TOWC	0	
TOWK	0	
TOWL	0	
TOWM	0	
M115	0	
M222	0	
TOWY	0	
TOWS	0	
WEST	0	
TVAW	26	0045 1130 1200 1215 1215 1300 1315 1345 1415 1445 1515 1600 1615 1645 1715 1745 1815 1845 1915 1945 2015 2045 2115 2145 2215 2245
TVCR	9	0015 0115 0130 0145 0200 1200 1215 1300 1600

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	ERR	0100-0345 0500-0645 0800-0945 1100-1345 1500-2145	29.0 TM100	100m Temp. values in error (wiring error)
	ERR	0000-0145 0300-0345 0700-0745 1500-1545 1800-1945 2300-2345	67.0 WS30	30m wind speed values in error (anomalously high threshold)
	OK		100.0 Other	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Wednesday, January 9, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0												
TOWB	0												
TOWC	1	0700											
TOWK	0												
TOWL	0												
TOWM	0												
M115	0												
M222	0												
TOWY	0												
TOWS	0												
WEST	0												
TVAV	11	0100	0400	0430	0600	0630	0715	0730	0800	0830	1200	1215	
TVCR	9	0100	0115	0130	0145	0200	0715	1200	1215	2245			

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	1100-1845	67.0 TM30	30m Temp. values in error (moisture effect)
	OK		100.0 Other	
Tower C	ERR	0000-1145	8.0 TM100	100m Temp. values in error (wiring error)
		1300-2145		
		2300-2345		
	ERR	0000-0145	54.0 WS30	30m wind speed values in error (anomalously high threshold)
		0300-0645		
		0800-0945		
		1100-1345		
	OK		100.0 Other	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Thursday, January 10, 2013

Compiled by KR Birdwell, MS6418, CSM/CS&ED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0																			
TOWB	0																			
TOWC	1	0615																		
TOWK	0																			
TOWL	0																			
TOWM	0																			
M115	2	1400	2200																	
M222	2	1400	2200																	
TOWY	16	0430	1200	1215	1230	1245	1300	1315	1330	1345	1400	1415	1430	1445	1500	1515	1530			
TOWS	3	0430	1415	1530																
WEST	3	0430	1415	1530																
TVAV	16	0045	0745	0815	0845	0915	0945	1015	1045	1145	2030	2100	2130	2200	2230	2300	2330			
TVCR	6	0115	0130	0145	0200	1230	1500													

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	ERR	0000-0645 1400-1545 2200-2345	46.0	TM100 100m Temp. values in error (wiring error)
	ERR	2200-2245	96.0	WS30 30m wind speed values in error (anomalously high threshold)
	OK		100.0	Other
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Saturday, January 12, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

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>
TOWA	0	
TOWB	0	
TOWC	1	0745
TOWK	0	
TOWL	0	
TOWM	0	
M115	0	
M222	0	
TOWY	0	
TOWS	0	
WEST	0	
TVAW	9	0045 1345 2030 2100 2130 2200 2230 2300 2330
TVCR	5	0115-0200, 1445

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	0000-0545	75.0 TM30	30m Temp. values in error (moisture effect)
	OK		100.0 Other	
Tower C	ERR	0100-1445	20.0 TM100	100m Temp. values in error (wiring error)
		1600-1645		
		2000-2345		
	OK		100.0 Other	
Tower K	ERR	1200-1445	88.0 TM60	60m Temp. values in error (moisture or aspirator failure)
	OK		100.0 Other	
Tower L	OK		100.0	
Tower M	ERR	0000-1845	21.0 RH10	RH values in error (moisture-instrument error)
	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Sunday, January 13, 2013

Compiled by KR Birdwell, MS6418, CSM/CS&ED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0																			
TOWB	0																			
TOWC	1	0630																		
TOWK	0																			
TOWL	0																			
TOWM	0																			
M115	0																			
M222	0																			
TOWY	1	0000																		
TOWS	1	0000																		
WEST	1	0000																		
TVAW	18	0000	0030	0100	0115	0145	0200	0230	0300	0330	0400	0430	0500	0530	0600	0630	0700	0730	1230	
TVCR	8	0100	0115	0130	0145	0200	0530	1330	2000											

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	2000-2345	84.0 TM30	30m Temp. values in error (moisture effect)
	OK		100.0 Other	
Tower C	ERR	0000-0645	12.0 TM100	100m Temp. values in error (wiring error)
		0900-2245		
	ERR	0800-1045	80.0 WS30	30m wind speed values in error (anomalously high threshold)
		1200-1345		
	OK		100.0 Other	
Tower K	ERR	0500-0545	92.0 TM60	60m Temp. values in error (moisture or aspirator failure)
		0700-0745		
	OK		100.0 Other	
Tower L	OK		100.0	
Tower M	ERR	0400-1745	25.0 RH10	RH values in error (moisture-instrument error)
		2000-2345		
	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Monday, January 14, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0	
TOWB	0	
TOWC	1	1300
TOWK	0	
TOWL	0	
TOWM	0	
M115	0	
M222	0	
TOWY	0	
TOWS	1	2100
WEST	0	
TVAW	15	0045 0315 1730 1800 1830 1900 1930 2000 2030 2100 2130 2200 2230 2300 2330
TVCR	5	0115 0130 0145 0200 1030

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	0200-1045 1500-1945 2200-2345	33.0 TM30	30m Temp. values in error (moisture effect)
Tower C	OK ERR	0100-1445 1700-1745 2000-2245	100.0 Other 25.0 TM100	100m Temp. values in error (wiring error)
Tower K	OK		100.0 Other	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

Cold Front – Early AM; over 5 inches of rain from Sunday (01/13/13) through Tuesday (01/15/13) at ORNL Tower “C”

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Tuesday, January 15, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0														
TOWB	0														
TOWC	0														
TOWK	0														
TOWL	0														
TOWM	0														
M115	0														
M222	11	2115	2130	2145	2200	2215	2230	2245	2300	2315	2330	2345			
TOWY	0														
TOWS	0														
WEST	0														
TVAW	13	0000	0045	0100	0115	0145	0200	0230	0300	0330	0400	0430	0500	0530	
TVCR	8	0045	0100	0115	0130	0145	0200	0230	1815						

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	0200-1045 1600-2345	20.0 TM30	30m Temp. values in error (moisture effect)
Tower C	OK		100.0 Other	
	ERR	0100-0145 0400-0445 1000-1545 1900-1945 2300-2345	58.0 TM100	100m Temp. values in error (wiring error)
	ERR	2000-2045 2200-2245	92.0 WS30	30m wind speed values in error (anomalously high threshold)
Tower K	OK		100.0 Other	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

Cold Front – Early AM; over 5 inches of rain from Sunday (01/13/13) through Tuesday (01/15/13) at ORNL Tower “C”

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Thursday, January 17, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0														
TOWB	0														
TOWC	1	0615													
TOWK	0														
TOWL	0														
TOWM	3	0530	0700	0900											
M115	6	1500	1530	1545	1600	1615	2200								
M222	1	2200													
TOWY	0														
TOWS	0														
WEST	0														
TVAV	13	0000	0045	0100	0115	0145	0200	0230	0300	0330	0400	0430	1215	1515	
TVCR	9	0045	0100	0115	0130	0145	0200	1200	1215	1515					

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	0000-2245	100.0 WS15	15m Wind Speed anomalously high (2x) - values corrected
	ERR	0000-0245	88.0 TM30	30m Temp. values in error (moisture effect)
	OK		100.0 Other	
Tower C	ERR	0000-0545	71.0 TM100	100m Temp. values in error (wiring error)
		2300-2345		
	ERR	2000-2045	88.0 WS30	30m wind speed values in error (anomalously high threshold)
		2200-2345		
	OK		100.0 Other	
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	ERR	0000-2045	12.0 RH10	RH values in error (moisture-instrument error)
	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Friday, January 18, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0																			
TOWB	0																			
TOWC	0																			
TOWK	0																			
TOWL	0																			
TOWM	0																			
M115	0																			
M222	0																			
TOWY	0																			
TOWS	0																			
WEST	0																			
TVAW	14	0100	0930	1000	1030	1845	1915	1945	2045	2115	2145	2215	2245	2315	2345					
TVCR	8	0030	0100	0115	0130	0145	0200	0545	2015											

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	0000-2245	100.0 WS15	15m Wind Speed anomalously high (2x) - values corrected
	OK		100.0	
Tower C	ERR	0000-1945	16.0 TM100	100m Temp. values in error (wiring error)
	ERR	0000-0045	80.0 WS30	30m wind speed values in error (anomalously high threshold)
	OK		100.0 Other	
Tower K	ERR	0800-1745	58.0 TM60	60m Temp. values in error (moisture or aspirator failure)
	OK		100.0 Other	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Saturday, January 19, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA 0
TOWB 0
TOWC 2 1300 1330
TOWK 2 1300 1315
TOWL 2 1300 1315
TOWM 0
M115 0
M222 0
TOWY 0
TOWS 0
WEST 0
TVAW 5 0015 0100 0130 0215 0300
TVCR 7 0100 0115 0130 0145 0200 1000 2300

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	0000-1945 2200-2345	100.0 WS15	15m Wind Speed anomalously high (2x) - values corrected
Tower C	OK		100.0	
	ERR	0400-0445 0600-1345 1600-1845 2200-2345	40.0 TM100	100m Temp. values in error (wiring error)
	ERR	0200-0245 0500-0545 0800-0945 2200-2345	75.0 WS30	30m wind speed values in error (anomalously high threshold)
Tower K	OK		100.0 Other	
	ERR	0700-0745 0900-2345	33.0 TM60	60m Temp. values in error (moisture or aspirator failure)
Tower L	OK		100.0 Other	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Sunday, January 20, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA 0
TOWB 0
TOWC 2 1300 1330
TOWK 2 1300 1315
TOWL 2 1300 1315
TOWM 0
M115 0
M222 0
TOWY 0
TOWS 0
WEST 0
TVAW 5 0015 0100 0130 0215 0300
TVCR 7 0100 0115 0130 0145 0200 1000 2300

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	0100-0245 0900-1945 2200-2245	100.0 WS15	15m Wind Speed anomalously high (2x) - values corrected
Tower C	OK		100.0	
	ERR	0000-0345 0500-1645 1800-1945 2300-2345	20.0 TM100	100m Temp. values in error (wiring error)
	ERR	0100-0245 0600-0845	80.0 WS30	30m wind speed values in error (anomalously high threshold)
Tower K	OK		100.0 Other	
	ERR	0000-0245 0600-1745	38.0 TM60	60m Temp. values in error (moisture or aspirator failure)
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

Cold front passage – evening

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Monday, January 21, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0																			
TOWB	0																			
TOWC	2	0700	1715																	
TOWK	0																			
TOWL	0																			
TOWM	0																			
M115	0																			
M222	0																			
TOWY	0																			
TOWS	0																			
WEST	0																			
TVAW	13	0100	1230	1300	1400	1430	1515	1945	2045	2115	2145	2215	2245	2315						
TVCR	7	0100	0115	0130	0145	0200	0330	1515												

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	0800-2345	100.0 WS15	15m Wind Speed anomalously high (2x) - values corrected
	OK		100.0	
Tower C	ERR	0000-0745	38.0 TM100	100m Temp. values in error (wiring error)
		1200-1345		
		1500-1745		
		2200-2345		
	ERR	0100-0245	92.0 WS30	30m wind speed values in error (anomalously high threshold)
	OK		100.0 Other	
Tower K	ERR	0900-1745	62.0 TM60	60m Temp. values in error (moisture or aspirator failure)
	OK		100.0 Other	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

Arctic air infiltrating area during PM

Oak Ridge Reservation**Daily Meteorological Tower Status Report for:****Tuesday, January 22, 2013**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149**MISSING DATA STATUS – ALL TOWERS (15-Minute Data)***Site No. Time Ranges*

TOWA 0
TOWB 0
TOWC 1 0715
TOWK 0
TOWL 0
TOWM 0
M115 2 1845 1930
M222 2 1845 1930
TOWY 4 1700 1715 1900 1945
TOWS 4 1700 1715 1900 1945
WEST 4 1700 1715 1900 1945
TVAW 17 0015 0100 0130 0200 0215 0245 0315 0530 0600 0630 0700 0730 0800 0830 0900 0930 1000
TVCR 7 0100 0115 0130 0145 0200 0430 1645

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	0000-2345	100.0 WS15	15m Wind Speed anomalously high (2x) - values corrected 30m Temp. repaired (Shaw Environmental)
	ERR	1600-1745	92.0 TM30	
	OK		100.0 Other	
Tower C	ERR	0000-0745 1000-2345	8.0 TM100	100m Temp. values in error (wiring error)
	OK		100.0 Other	
Tower K	ERR	0800-1445	71.0 TM60	60m Temp. values in error (moisture or aspirator failure) (60m aspirator replaced - Shaw Environmental)
	OK		100.0 Other	
Tower L	OK		100.0	UPS added to power supply (Shaw Environmental)
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Thursday, January 24, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

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>
TOWA	0	
TOWB	0	
TOWC	2	0545 1445
TOWK	0	
TOWL	0	
TOWM	0	
M115	0	
M222	0	
TOWY	0	
TOWS	0	
WEST	0	
TVAW	3	0100 2300 2330
TVCR	7	0100 0115 0130 0145 0200 0815 2030

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	Other
Tower C	ERR	0000-1445	38.0	TM100 100m Temp. values in error (wiring error)
	OK		100.0	Other
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

None

Oak Ridge Reservation**Daily Meteorological Tower Status Report for:****Friday, January 25, 2013 (Continued)**

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower L	ERR	0900-1045 1200-2345	42.0 WS30	30m Wind Speed values in error due to icing on sensor
	ERR	0400-2345	12.0 PRC	Precip value timing estimated due to icing on sensor
	OK		100.0	
Tower M	ERR	0900-1045 1900-1945 2200-2345	79.0 WS10	10m Wind Speed values in error due to icing on sensor
	OK		100.0 Other	
Tower S	ERR	1145-2345	49.0 WS25	25m Wind Speed values in error due to icing on sensor
	OK		100.0	
Tower W	ERR	1100-2345	46.0 WS10	10m Wind Speed values in error due to icing on sensor
	ERR	0645-2345	28.0 WD30	30m Wind Direction values in error due to icing on sensor
	ERR	0645-2345	28.0 WS30	30m Wind Speed values in error due to icing on sensor
	ERR	1130-2345	48.0 WS60	60m Wind Speed values in error due to icing on sensor
	OK		100.0 Other	
Tower Y	ERR	1130-2345	48.0 WS15	15m Wind Speed values in error due to icing on sensor
	ERR	1145-2345	49.0 WS33	33m Wind Speed values in error due to icing on sensor
	OK		100.0 Other	

Communication/Weather Notes

Ice Storm Warming - Freezing rain from 0400 to 1400 hrs; 0.3 inches of ice accumulation.

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Saturday, January 26, 2013 (Continued)

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

<i>Site</i>	<i>Status</i>	<i>Time Ranges</i>	<i>Pct Recovery</i>	<i>Special Notes</i>
Tower W	ERR	0115-0945	64.0 WD10	10m Wind Direction values in error due to icing on sensor
	ERR	0000-1045	54.0 WS10	10m Wind Speed values in error due to icing on sensor
	ERR	0000-1045	54.0 WD30	30m Wind Direction values in error due to icing on sensor
	ERR	0000-1045	54.0 WS30	30m Wind Speed values in error due to icing on sensor
	ERR	0000-1115	52.0 WS60	60m Wind Speed values in error due to icing on sensor
	OK		100.0 Other	
Tower Y	ERR	0000-1045	54.0 WS15	15m Wind Speed values in error due to icing on sensor
	ERR	0000-1015	56.0 WS33	33m Wind Speed values in error due to icing on sensor
	OK		100.0 Other	

Communication/Weather Notes

None

Oak Ridge Reservation

Daily Meteorological Tower Status Report for:

Thursday, January 31, 2013

Compiled by KR Birdwell, MS6418, CSM/CSED, ORNL, Phone 865.241.8085

Email birdwellkr@ornl.gov, Pager 865.873.7149

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

Site No. Time Ranges

TOWA	0																			
TOWB	0																			
TOWC	2	0630	1545																	
TOWK	0																			
TOWL	0																			
TOWM	0																			
M115	1	1115																		
M222	1	1115																		
TOWY	1	1130																		
TOWS	1	1130																		
WEST	1	1130																		
TVAV	16	0000	0045	0100	0115	0145	0215	0230	0300	0330	0400	0430	0500	0530	0630	0930	1930			
TVCR	8	0045	0100	0115	0130	0145	0200	0215	1900											

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	Other
Tower C	ERR	0000-1045 1200-1945 2300-2345	16.0	TM100 100m Temp. values in error (wiring error)
	OK		100.0	Other
Tower K	OK		100.0	
Tower L	OK		100.0	
Tower M	OK		100.0	
Tower S	OK		100.0	
Tower W	OK		100.0	
Tower Y	OK		100.0	

Communication/Weather Notes

Cold front late afternoon/early evening; thundershowers crossed area W-to-E around noon.