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ATTN: Document Control Desk  
Director  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Louisiana Energy Services, LLC  
NRC Docket No. 70-3103

Subject: URENCO USA Semi-Annual Radiological Effluent Release Report

Pursuant to 10 CFR 70.59 Effluent monitoring reporting requirements, URENCO USA respectfully submits the Semiannual Effluent Release Report for the monitoring period of July 1, 2011 to December 31, 2011. This report specifically addresses release of licensed, principal radionuclide's in liquid or gaseous form to uncontrolled areas.

Should there be any questions concerning this submittal, please contact Mr. Zackary Rad, LES Licensing Manager, at 575.394.6689.

Sincerely,



Jay Laughlin  
Chief Nuclear Officer and Head of Technical Services

Enclosure: Semi-Annual Radiological Effluent Release Report for July 1, 2011 to December 31, 2011

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**ENCLOSURE**

**Semi-Annual Radiological Effluent Release Report**

**SEMI-ANNUAL RADIOACTIVE  
EFFLUENT RELEASE REPORT  
JULY 1, 2011 THROUGH DECEMBER 31, 2011  
URENCO USA  
FACILITY OPERATING LICENSE SNM-2010  
LEA COUNTY, NEW MEXICO**

by

**Haley & Aldrich, Inc.  
Tucson, Arizona**

for

**URENCO USA  
Lea County, New Mexico**

**File No. 37262-022  
February 2012**

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## LIST OF ACRONYMS AND ABBREVIATIONS

NRC	Nuclear Regulatory Commission
CAB	Centrifuge Assembly Building
CFR	Code of Federal Regulations
CTPMF	Centrifuge Test and Post Mortem Facilities
EFS	Exhaust Filtration System
GEVS	Gaseous Effluent Vent System
HEPA	High Efficiency Particulate Air
HF	Hydrogen Fluoride
LLD	Lower Level of Detection
MDA	Minimum Detectable Activity
mm	Millimeter
SBM	Separations Building Module
UF6	Uranium Hexafluoride
uCi/mL	MicroCurie per Milliliter

## **1. INTRODUCTION**

### **1.1 Report Requirements**

This *Semi-Annual Radioactive Effluent Release Report* was prepared for the reporting period of July 1, 2011 through December 31, 2011 for the URENCO USA facility in Lea County, New Mexico (Figure 1), in accordance with 10 CFR 70.59, "Effluent Monitoring Reporting Requirements" and pursuant to NRC Regulatory Guide 4.16, "Monitoring and Reporting Radioactive Materials in Liquid and Gaseous Effluents from Nuclear Fuel Cycle Facilities, Revision 2" dated December 2010. A semi-annual Radioactive Effluent Release Report is required under 10 CFR 70.59 to report the "quantity of each of the principal radionuclides released to unrestricted areas in liquid and gaseous effluents during the previous six months of operation".

### **1.2 Site Activity**

The URENCO USA facility uses a gas centrifuge process to enrich uranium-235 using natural uranium hexafluoride feed material. Uranium hexafluoride was located within the cylinders on the Uranium Byproduct Cylinder (UBC) storage pads, within the Centrifuge Assembly Building (CAB), and within the Separations Building Module-1001 (SBM-1001) (Figure 2) during the reporting period. Potential releases of radioactive effluents would have originated from gaseous (exhaust systems) or liquid (domestic wastewater/sewage) effluents from the CAB and SBM-1001.

### **1.3 Result Summary**

The gaseous and liquid effluent data indicate there were no releases to the public during the reporting period that exceeded the requirements set forth in 10 CFR 20.1301, 10 CFR 20.1302, and 10 CFR 20.1101(d), as described in NRC Regulatory Guide 4.20 "Constraint on Releases of Airborne Radioactive Materials to the Environment for Licensees Other Than Power Reactors" dated December 1996.



## **2. GASEOUS EFFLUENT RELEASE LOCATIONS**

### **2.1 Centrifuge Test and Post Mortem Facilities Exhaust Filtration System**

#### **2.1.1 System Description**

Gaseous effluent from the Centrifuge Test and Post Mortem Facilities (CTPMF) is released through the Exhaust Filtration System (EFS), located in the Centrifuge Assembly Building (CAB) and monitored from the Control Room (Figure 2). The system ensures the CTPMF is maintained at a negative pressure.

The total air flow to be handled by the EFS is adequate to maintain negative pressure in the CTPMF. The EFS consists of a duct network that serves the CTPMF and operates at negative pressure. The ductwork is connected to a filter station that can handle 100% of the effluent. Work applications that require the EFS to be operational can be manually shut down if the EFS shuts down.

The minimum required EFS filter configuration is one pre-filter, one potassium carbonate impregnated activated carbon filter, and one high-efficiency particulate air (HEPA) filter. Additional filters may be used to provide adequate airflow. The pre-filter removes dust and debris, the potassium carbonate impregnated activated carbon filter removes hydrogen fluoride (HF), and the HEPA filter removes remaining uranic particles from the air stream. After filtration, the clean gases pass through a fan which maintains the negative pressure upstream of the filter station. The clean gases are then discharged through the monitored (alpha and HF) stack on the CAB.

The ABPM201S (alpha particulate monitor) is located adjacent to the filter train in the CTPMF EFS exhaust stack and receives a stream of air from the downstream side of the filters. The filter assembly is equipped with an isokinetic nozzle and is located within the exhaust stack to ensure turbulent flow. This ensures that particulate matter being collected on the filter is representative of particulate matter being released to the environment. The sample volume is pulled through a 47 mm Millipore® 3.0 micron, FSLW alpha profile filter paper to collect particulate matter. The filters are changed out on a weekly basis and submitted to Eberline Services of Oak Ridge, Tennessee under chain-of-custody for gross alpha, gross beta, and a quarterly composite isotopic uranium analysis. Gross alpha and gross beta were analyzed using method LANL MLR-100 Modified; isotopic uranium was analyzed using method EML U-02 Modified.

#### **2.1.2 Gaseous Effluent Results**

CTPMF EFS gaseous effluent results for gross alpha, gross beta, and isotopic uranium analyses for the reporting period are presented in Tables 1, 2, and 3, respectively. Analytical laboratory data sheets and vent flow data are provided in Appendix A. Meteorological data are provided in Appendix B.

##### **2.1.2.1 Gross Alpha and Gross Beta Results**

The CTPMF EFS gaseous effluent gross alpha results were below the minimum detectable activity (MDA) except for six weekly samples:

Table 2.1.2.1-1 CTPMF EFS Gross Alpha Results Exceeding MDA

Date	Sample	Gross Alpha Activity (uCi/mL)	MDA (uCi/mL)	Gross Alpha License Basis Lower Level of Detection (LLD) (uCi/mL)
09/27/11	11-358	7.45E-16	1.50E-16	1.0E-14
10/04/11	11-366	1.71E-15	4.96E-16	1.0E-14
10/16/11	AS 11-385	2.27E-15	2.39E-16	1.0E-14
11/16/11	1300-562-1MA1 111116	2.62E-16	1.31E-16	1.0E-14
12/07/11	1300-562-1MA1 111207	3.17E-16	1.36E-16	1.0E-14
12/21/11	1300-562-1MA1 111221	4.10E-16	1.37E-16	1.0E-14

The samples dated 09/27/11, 10/04/11, and 10/16/11 were from supplementary filters pulling in room air and are not representative of particulate matter being released to the environment.

All the gross alpha MDAs and detected activity results were less than the license basis lower level of detection (LLD) of 1.0E-14 microCuries per milliliter (uCi/mL) as defined in the Environmental Report Revision 19 (UUSA, 2011) for effluent samples.

All CTPMF EFS gaseous effluent gross beta results were below the MDA and LLD except for three weekly samples:

Table 2.1.2.1-2 CTPMF EFS Gross Beta Results Exceeding MDA and LLD

Date	Sample	Gross Beta Activity (uCi/mL)	MDA (uCi/mL)	Gross Beta Procedural Lower Level of Detection (LLD) (uCi/mL)
09/27/11	11-358	1.43E-14	3.09E-16	1.0E-14
10/04/11	11-366	3.46E-14	1.77E-15	1.0E-14
10/16/11	AS 11-385	1.26E-14	4.75E-16	1.0E-14

However, all three of these samples were from supplementary filters pulling in room air and are not representative of particulate matter being released to the environment.

#### 2.1.2.2 Isotopic Uranium Results

Isotopic uranium results for the CTPMF EFS gaseous effluent samples collected during the third quarter of 2011 (Table 3) were below the minimum detectable activities (MDA) for Uranium-235. The third quarter Uranium-234 activity was well below the value in 10 CFR 20, Appendix B, Table 2 (i.e., 0.002%), as was the Uranium-238 activity (i.e., 0.003%). CTPMF EFS gaseous effluent isotopic uranium results for the fourth quarter of 2011 were below the MDAs for Uranium-234, -235, and -238.

Appendix B to 10 CFR 20 is “Annual Limits on Intake (ALIs) and Derived Air Concentrations (DACs) of Radionuclides for Occupational Exposure; Effluent Concentrations; Concentrations for Release to Sewerage”. Table 2 provides effluent concentrations for both air and water. Per Table 2, the effluent

concentrations for air, Class D, are U234=3E-12 uCi/mL; U235=3E-12 uCi/mL; U238=3E-12 uCi/mL.

### 2.1.2.3 Gaseous Effluent Summary

Except for the gross beta results for 09/27/11, 10/04/11, and 10/16/11, detected radionuclide activity values in the CTPMF EFS gaseous effluent samples were below the license basis LLD of 1.0E-14 uCi/mL (UUSA, 2011).

## 2.2 Separations Building Module-1001 Pumped Extract Gaseous Effluent Vent System

### 2.2.1 System Description

The Pumped Extract Gaseous Effluent Vent System (GEVS) is designed to route gaseous streams from the Separations Building Module-1001 (SBM-1001) through filters for treatment before discharge to the atmosphere. Pre-filters and high efficiency particulate air (HEPA) filters remove particulates and impregnated activated carbon filters are used for the removal of HF.

Radioactivity levels within the GEVS stack are continuously monitored from the Control Room. The Pumped Extract GEVS is a Safe-By-Design system located in the UF6 Handling Area of SBM-1001 that provides exhaust of potentially hazardous contaminants for the SBMs from all permanently connected vacuum pump and trap sets, as well as temporary connections used by maintenance and sampling rigs.

There are two redundant continuous air monitoring devices in the GEVS (1MA1 and 1MA2). Similar to the CTPMF vent system, the alpha particulate monitors are located adjacent to the filter train in the Pumped Extract GEVS exhaust stack and receive a stream of air from the downstream side of the filters. The filter assemblies are equipped with isokinetic nozzles and are located within the exhaust stack to ensure turbulent flow. This ensures that particulate matter being collected on the filter is representative of particulate matter being released to the environment. The sample volume is pulled through a 47 mm Millipore© 3.0 micron, FSLW alpha profile filter paper to collect particulate matter. The filters are changed out on a weekly basis and submitted to Eberline Services of Oak Ridge, Tennessee under chain-of-custody for gross alpha, gross beta, and isotopic uranium analysis. Gross alpha and gross beta were analyzed using method LANL MLR-100 Modified; isotopic uranium was analyzed using method EML U-02 Modified.

### 2.2.2 Gaseous Effluent Results

SBM-1001 GEVS gaseous effluent results for gross alpha, gross beta, and isotopic uranium analyses for the reporting period are presented in Tables 4, 5, and 6, respectively. Analytical laboratory data sheets and vent flow data are provided in Appendix A. Meteorological data are provided in Appendix B.

#### 2.2.2.1 Gross Alpha and Gross Beta Results

Except for four samples, the SBM-1001 GEVS gaseous effluent gross alpha for both 1MA1 and 1MA2 were below the MDA. All MDAs and detected activities in the samples were below the license basis gross alpha LLD and the URENCO

USA minimum procedural gross beta LLD of 1.0E-14 uCi/mL (UUSA, 2010, 2011).

Table 2.2.2.1-1 SBM-1001 GEVS Gross Alpha Results Exceeding MDA

Date	Sample	Gross Alpha Activity (uCi/mL)	MDA (uCi/mL)	Gross Alpha License Basis Lower Level of Detection (LLD) (uCi/mL)
<i>1MA1</i>				
11/30/11	1001-562-1MA1 111130	1.85E-16	1.39E-16	1.0E-14
<i>1MA2</i>				
11/09/11	1001-562-1MA2 111109	2.21E-16	1.33E-16	1.0E-14
1/30/11	1001-562-1MA2 111130	3.22E-16	1.21E-16	1.0E-14
12/14/11	1001-562-1MA2 111214	3.03E-16	1.30E-16	1.0E-14

Results for gross alpha from the samples collected on 11/09/11, 11/30/11, and 12/14/11 were above the MDA. However, gross beta results for the same dates and filters were below the MDA and LLD.

All gaseous effluent gross beta results for both 1MA1 and 1MA2 were below the MDA and LLD.

#### 2.2.2.2 Isotopic Uranium Results

Isotopic uranium results for the third and fourth quarters of 2011 were below the MDA for both 1MA1 and 1MA2, therefore the percentages of the value in 10 CFR 20, Appendix B, Table 2 were not calculated (Table 6).

#### 2.2.2.3 Gaseous Effluent Summary

All detected radionuclide activity values were below the license basis LLD of 1.0E-14 uCi/mL (UUSA, 2011).

### 2.3 Sampling Data Gaps

There were no sampling data gaps for the reporting period for either the pumped extract GEVS in the SBM-1001 or the EFS in the CTPMF. The vent systems were not active during planned power outages and down times, therefore no effluent was released during those instances. A summary of sampling program deviations and program adjustments is provided in Section 2.4.

### 2.4 Sampling Program Deviations

There were three unplanned deviations to the sampling program during the reporting period, and they are described below:

Table 2.4-1 Sampling Program Deviations, SBM GEVS

<b>1001-562-1MA1 and 1001-562-1MA2 Alpha Monitor Exception Log</b>	
<b>Date Range</b>	<b>Reason for 7 Day Deviation</b>
9/11/11@ 12:20 to 14:30	Monitor down due to loss of power (transformer A), was not returned to operational mode until 14:30.
10/26/11 to 11/2/11	<p>Mix up of placement on filters on alpha monitor.</p> <p>Excerpt from URENCO USA Condition Report 2011-3642:</p> <p>Description of Adverse Condition:                      On November 2, 2011 both particulate iodine sampler (PIS) cartridges to monitor 1001-562-1MA2 were found in the Chemistry office area. Each monitor onsite has two cartridges to be used specifically for the monitor identified. On this occasion cartridge 1001-562-1MA1-1 was on Alpha Monitor 1001-562-1MA1 and cartridge 1001-562-1MA1-2 was on Alpha monitor 1001-562-1MA2. Through investigation it was discovered that on October 28, 2011 a Chemistry Lab Tech and Chemistry Supervisor had violated procedure by having both Alpha monitors off-line at the same time, for one minute effluent from the plant was not collected. During this change out the Lab Tech and Supervisor took the cartridge off of Alpha monitor 1001-562-1MA1 and then put it on 1001-562-1MA2. This led to one of the filters being on for two weeks as well as being on both monitors. Subsequently data for the collected filters are incorrect. This is a violation of company procedure as the results are reportable to the NRC in accordance with the Environmental Report (ER) Sections 6.1 and 6.2.8.</p> <p>Immediate Action Taken:                      Notified immediate supervision. Worked with other Lab Tech II to clarify issue and try to best remedy the mistake. PIS filters were immediately changed and cartridge 1001-562-1MA2-1 was put on alpha monitor 1001-562-1MA2. Cartridge 1001-562-1MA1-1 was taken off of monitor 1001-562-1MA1 immediately surveyed changed and then put back on to monitor 1001-562-1MA1. Counts were done on all filters and the results turned into direct supervisor for them to decide how to proceed.</p>

Table 2.4-2 Sampling Program Deviations, CTPMF

<b>1300-562-1MA1 Alpha Monitor Exception Log</b>	
<b>Date Range</b>	<b>Reason for 7 Day Deviation</b>
9/20/11@0437 to 10/12/11@1123	Alpha and HF monitors secured in conjunction with shutdown of CAB ventilation units for scheduled maintenance on CAB ventilation units.

### **3. LIQUID EFFLUENT RELEASE LOCATION**

#### **3.1 Lift Station 1 Description**

Domestic wastewater (sewage) generated at the CAB and SBM-1001, along with other domestic wastewater generated at the URENCO USA facility, is discharged off site to the Eunice Waste Water Treatment Plant. Domestic wastewater is not expected to contain process water, as the facility design does not allow discharge of process liquid effluent to the domestic wastewater system. Domestic wastewater is sampled quarterly at Lift Station 1, which is a central collection point for all domestic waste generated at the URENCO USA facility prior to off-site discharge (Figure 2). The average estimated wastewater discharge to the Eunice Waste Water Treatment Plant is approximately 13,000 gallons per day (UUSA, 2011).

#### **3.2 Liquid Effluent Results**

Wastewater samples were collected at Lift Station 1 on July 14, 2011 and October 11, 2011 and submitted to GEL Laboratories, LLC of Charleston, South Carolina under chain-of-custody for isotopic uranium analysis using method EML U-02 Modified.

Domestic wastewater effluent results for isotopic uranium analyses for the reporting period are presented in Table 7. Analytical laboratory data sheets are provided in Appendix A.

Uranium-234, -235, and -238 results in wastewater samples collected from Lift Station 1 during Quarters 3 and 4 of 2011 were at or above the MDA, with one exception. The Uranium-235 result for Quarter 4, 2011 was below the MDA. Results of analyses for Uranium-234 ranged from 0.02% to 0.06% of the values in 10 CFR 20, Appendix B, Table 3. Uranium-235 was 0.001% of the values in 10 CFR 20, Appendix B, Table 3 during both Quarters 3 and 4. Uranium-238 ranged from 0.01% to 0.03% of the values in 10 CFR 20, Appendix B, Table 3.

All detected radionuclide activity values in samples collected from Lift Station 1 were below the license basis LLD of 3.0E-9 uCi/mL (UUSA, 2011):

- Uranium-234 concentrations were 6.22E-10 and 1.77E-09 uCi/mL;
- Uranium-235 concentrations were 1.91E-11 and 3.89E-11 uCi/mL; and
- Uranium-238 concentrations were 3.61E-10 and 8.94E-09 uCi/mL.

#### **3.3 Sampling Data Gaps**

There were no sampling data gaps at Lift Station 1 during the reporting period.

#### **3.4 Sampling Program Deviations and Program Adjustments**

There were no sampling program deviations or program adjustments during the reporting period. Wastewater sample collection and analysis at Lift Station 1 was performed pursuant to the New Mexico Environment Department Discharge Permit DP-1481 (NMED 2007, 2008, 2011).

#### 4. DOSE TO MEMBERS OF THE PUBLIC

The potential maximum dose directly at the point of gaseous effluent discharge is shown to be less than 10% of the radionuclide concentrations which, if inhaled continuously over the course of a year, would produce an unacceptable total effective dose equivalent. This is shown because the isotopic uranium activity in gaseous effluent was either below the MDA or less than 10% of values listed in 10 CFR 20, Appendix B, Table 2, "Effluent Concentrations – Class D Air" for U234, U235, and U238. The concentrations given in Table 2 are equivalent to the radionuclide concentrations, which, if inhaled continuously over the course of a year, would produce a total effective dose equivalent of 0.05 rem (50 millirem). Because the maximum potential dose directly at the point of gaseous effluent discharge was acceptable, actual dose assessment was not performed.

The concentrations of isotopic uranium in gaseous effluent demonstrate compliance with 10 CFR 20.1301, 10 CFR 20.1302, and 10 CFR 20.1101(d), as described in NRC Regulatory Guide 4.20 "Constraint on Releases of Airborne Radioactive Materials to the Environment for Licensees other than Power Reactors" dated December 1996.

The potential maximum dose directly at the point of liquid effluent discharge is shown to be less than 10% of the radionuclide concentrations which, if ingested continuously over the course of a year, would produce an unacceptable total effective dose equivalent. This is shown because the domestic wastewater effluent activity ranged from 0.001% - 0.06% of the value listed in 10 CFR 20, Appendix B, Table 3, "Releases to Sewers". The concentrations in Table 3 are such that if the sewage released by the licensee (URENCO USA) were the only source of water ingested by a reference man during a year, it would result in a committed effective dose equivalent of 0.5 rem (500 millirem). Because the maximum potential dose directly at the point of liquid effluent discharge was acceptable, actual dose assessment was not performed.

The concentrations of isotopic uranium in liquid effluent demonstrate compliance with 10 CFR 20.1301 and 10 CFR 20.1302.

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4. URENCO USA (UUSA), 2010. *Radiological Effluent and Environmental Monitoring, Procedure EN-3-1000-02, Revision 5*. Effective date February 26, 2010.
5. URENCO USA (UUSA), 2011. *Environmental Report, Revision 19*. Issue date August 8, 2011.
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8. U.S. Nuclear Regulatory Commission. 10 CFR 20.1101. *Radiation Protection Programs*.
9. U.S. Nuclear Regulatory Commission. 10 CFR 20.1302. *Compliance with Dose Limits for Individual Members of the Public*.
10. U.S. Nuclear Regulatory Commission. 10 CFR 20.1301. *Dose Limits for Individual Members of the Public*.
11. U.S. Nuclear Regulatory Commission. 10 CFR 20. Appendix B. *Annual Limits on Intake (ALIs) and Derived Air Concentrations (DACs) of Radionuclides for Occupational Exposure; Effluent Concentrations; Concentrations for Release to Sewerage*. Tables 2 and 3.
12. U.S. Nuclear Regulatory Commission. 10 CFR 40.75. *Effluent Monitoring Reporting Requirements*.



**TABLE 1**  
**CENTRIFUGE TEST AND POST MORTEM FACILITIES (CTPMF)**  
**EXHAUST FILTRATION SYSTEM GASEOUS EFFLUENT - GROSS ALPHA**  
 URENCO USA  
 Lea County, New Mexico

Sample ID	Sample Date	Sample Period	Gross Alpha (uCi/mL)			Gross Alpha MDA	Total CTPM Exhaust Filtration System Flow (m <sup>3</sup> )	Quantity Released (Ci)
			Gross Alpha Results	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)			
1300-562-1MA1 110706	07/06/11 10:10	06/30/11 - 07/06/11	-8.85E-17	2.13E-16	2.13E-16	6.37E-16	2.68E+06	Result below MDA
1300-562-1MA1 110713	07/13/11 09:52	07/06/11 - 07/13/11	0.00E+00	2.71E-16	2.71E-16	7.03E-16	2.84E+06	Result below MDA
1300-562-1MA1 110720	07/20/11 10:00	07/13/11 - 07/20/11	-2.44E-16	3.70E-16	3.71E-16	1.02E-15	2.79E+06	Result below MDA
1300-562-1MA1 110727	07/27/11 10:00	07/20/11 - 07/27/11	-1.04E-16	3.22E-16	3.23E-16	8.82E-16	2.36E+06	Result below MDA
1300-562-1MA1 110803	08/03/11 09:20	07/27/11 - 08/03/11	-1.48E-16	2.16E-16	2.17E-16	7.10E-16	2.81E+06	Result below MDA
1300-562-1MA1 110810	08/10/11 10:05	08/03/11 - 08/10/11	-2.75E-16	2.84E-16	2.85E-16	8.75E-16	2.87E+06	Result below MDA
1300-562-1MA1 110817	08/17/11 09:40	08/10/11 - 08/17/11	-4.84E-17	3.15E-16	3.15E-16	8.20E-16	2.81E+06	Result below MDA
1300-562-1MA1 110824	08/24/11 08:37	08/17/11 - 08/24/11	-2.78E-16	2.22E-16	2.24E-16	7.85E-16	2.81E+06	Result below MDA
1300-562-1MA1 110831	08/31/11 10:12	08/24/11 - 08/31/11	-5.18E-16	3.80E-16	3.84E-16	1.18E-15	3.13E+06	Result below MDA
1300-562-1MA1 110907	09/07/11 09:41	08/31/11 - 09/07/11	-9.94E-17	3.65E-16	3.65E-16	9.50E-16	2.79E+06	Result below MDA
1300-562-1MA1 110914	09/14/11 10:20	09/07/11 - 09/14/11	-1.00E-16	3.11E-16	3.11E-16	8.50E-16	2.92E+06	Result below MDA
11-358*	09/27/11 06:30	09/09/11 - 09/27/11	7.45E-16	1.70E-16	1.89E-16	1.50E-16	Not Applicable*	Not Applicable*
11-366*	10/04/11 11:20	09/27/11 - 10/04/11	1.71E-15	5.70E-16	6.00E-16	4.96E-16	Not Applicable*	Not Applicable*
AS 11-385*	10/16/11 18:00	10/04/11 - 10/16/11	2.27E-15	3.44E-16	4.24E-16	2.39E-16	Not Applicable*	Not Applicable*
1300-562-1MA1 111019	10/19/11 10:21	10/12/11 - 10/19/11	4.67E-17	3.30E-16	3.30E-16	7.91E-16	2.97E+06	Result below MDA
1300-562-1MA1 111026	10/26/11 09:45	10/19/11 - 10/26/11	-4.60E-17	2.38E-16	2.38E-16	6.62E-16	2.49E+06	Result below MDA
1300-562-1MA1 111102	11/02/11 09:53	10/26/11 - 11/02/11	1.90E-16	2.63E-16	2.64E-16	5.24E-16	3.00E+06	Result below MDA
1300-562-1MA1 111109	11/09/11 09:55	11/02/11 - 11/09/11	9.72E-17	3.01E-16	3.01E-16	7.00E-16	3.00E+06	Result below MDA
1300-562-1MA1 111116	11/16/11 09:56	11/09/11 - 11/16/11	2.62E-16	2.09E-16	2.11E-16	1.31E-16	3.00E+06	7.85E-10
1300-562-1MA1 111123	11/23/11 11:21	11/16/11 - 11/23/11	0.00E+00	3.18E-16	3.18E-16	7.94E-16	3.03E+06	Result below MDA
1300-562-1MA1 111130	11/30/11 09:53	11/23/11 - 11/30/11	1.51E-16	3.28E-16	3.29E-16	7.27E-16	2.97E+06	Result below MDA
1300-562-1MA1 111207	12/07/11 10:56	11/30/11 - 12/07/11	3.17E-16	2.35E-16	2.38E-16	1.36E-16	3.00E+06	9.52E-10
1300-562-1MA1 111214	12/14/11 10:20	12/07/11 - 12/14/11	2.45E-16	2.88E-16	2.89E-16	5.42E-16	3.00E+06	Result below MDA
1300-562-1MA1 111221	12/21/11 08:04	12/14/11 - 12/21/11	4.10E-16	2.68E-16	2.71E-16	1.37E-16	2.95E+06	1.21E-09
1300-562-1MA1 111229	12/29/11 18:57	12/21/11 - 12/29/11	-5.06E-17	2.62E-16	2.62E-16	7.28E-16	2.53E+06	Result below MDA**

**NOTES:**

1. uCi/mL = microCuries per milliliter.
2. m<sup>3</sup> = cubic meters.
3. MDA = minimum detectable activity.
4. Gross alpha analyzed using method LANL MLR-100 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (UUSA, 2011).
6. \* = No stack flow and the particulate monitor was shut off. This is a supplementary filter pulling in room air and is not representative of an effluent release.  
See Section 2.4.
7. \*\* = Alpha and HF monitors turned off from 12/27/11 - 12/29/11 in conjunction with the Special Filtration Unit for a planned power outage.

**TABLE 2**  
**CENTRIFUGE TEST AND POST MORTEM FACILITIES (CTPMF)**  
**EXHAUST FILTRATION SYSTEM GASEOUS EFFLUENT - GROSS BETA**  
 URENCO USA  
 Lea County, New Mexico

Sample ID	Sample Date	Sample Period	Gross Beta (uCi/mL)				Total CTPM Exhaust Filtration System Flow (m <sup>3</sup> )	Quantity Released (Ci)
			Gross Beta Results	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Beta MDA		
1300-562-1MA1 110706	07/06/11 10:10	06/30/11 - 07/06/11	3.47E-16	9.01E-16	9.02E-16	1.89E-15	2.68E+06	Result below MDA
1300-562-1MA1 110713	07/13/11 09:52	07/06/11 - 07/13/11	-7.87E-16	1.04E-15	1.04E-15	2.30E-15	2.84E+06	Result below MDA
1300-562-1MA1 110720	07/20/11 10:00	07/13/11 - 07/20/11	0.00E+00	8.97E-16	8.97E-16	1.93E-15	2.79E+06	Result below MDA
1300-562-1MA1 110727	07/27/11 10:00	07/20/11 - 07/27/11	-1.80E-16	9.45E-16	9.45E-16	2.05E-15	2.36E+06	Result below MDA
1300-562-1MA1 110803	08/03/11 09:20	07/27/11 - 08/03/11	-2.82E-16	9.79E-16	9.80E-16	2.13E-15	2.81E+06	Result below MDA
1300-562-1MA1 110810	08/10/11 10:05	08/03/11 - 08/10/11	-3.50E-16	8.87E-16	8.88E-16	1.95E-15	2.87E+06	Result below MDA
1300-562-1MA1 110817	08/17/11 09:40	08/10/11 - 08/17/11	-2.02E-16	8.85E-16	8.85E-16	1.93E-15	2.81E+06	Result below MDA
1300-562-1MA1 110824	08/24/11 08:37	08/17/11 - 08/24/11	-5.42E-17	8.72E-16	8.72E-16	1.88E-15	2.81E+06	Result below MDA
1300-562-1MA1 110831	08/31/11 10:12	08/24/11 - 08/31/11	-3.14E-17	1.28E-15	1.28E-15	2.73E-15	3.13E+06	Result below MDA
1300-562-1MA1 110907	09/07/11 09:41	08/31/11 - 09/07/11	-2.89E-17	9.80E-16	9.80E-16	2.10E-15	2.79E+06	Result below MDA
1300-562-1MA1 110914	09/14/11 10:20	09/07/11 - 09/14/11	6.85E-16	9.76E-16	9.80E-16	2.01E-15	2.92E+06	Result below MDA
11-358	09/27/11 06:30	09/09/11 - 09/27/11	1.43E-14	5.53E-16	2.05E-15	3.09E-16	Not Applicable*	Not Applicable*
11-366	10/04/11 11:20	09/27/11 - 10/04/11	3.46E-14	2.06E-15	5.21E-15	1.77E-15	Not Applicable*	Not Applicable*
AS 11-385	10/16/11 18:00	10/04/11 - 10/16/11	1.26E-14	6.50E-16	1.86E-15	4.75E-16	Not Applicable*	Not Applicable*
1300-562-1MA1 111019	10/19/11 10:21	10/12/11 - 10/19/11	7.77E-16	7.77E-16	7.84E-16	1.57E-15	2.97E+06	Result below MDA
1300-562-1MA1 111026	10/26/11 09:45	10/19/11 - 10/26/11	2.17E-16	8.38E-16	8.38E-16	1.78E-15	2.49E+06	Result below MDA
1300-562-1MA1 111102	11/02/11 09:53	10/26/11 - 11/02/11	-2.19E-16	8.57E-16	8.58E-16	1.87E-15	3.00E+06	Result below MDA
1300-562-1MA1 111109	11/09/11 09:55	11/02/11 - 11/09/11	-5.56E-17	8.40E-16	8.40E-16	1.82E-15	3.00E+06	Result below MDA
1300-562-1MA1 111116	11/16/11 09:56	11/09/11 - 11/16/11	-4.87E-16	8.36E-16	8.39E-16	1.85E-15	3.00E+06	Result below MDA
1300-562-1MA1 111123	11/23/11 11:21	11/16/11 - 11/23/11	7.81E-16	8.68E-16	8.75E-16	1.77E-15	3.03E+06	Result below MDA
1300-562-1MA1 111130	11/30/11 09:53	11/23/11 - 11/30/11	-2.95E-17	9.03E-16	9.03E-16	1.95E-15	2.97E+06	Result below MDA
1300-562-1MA1 111207	12/07/11 10:56	11/30/11 - 12/07/11	-5.22E-16	1.13E-15	1.13E-15	2.45E-15	3.00E+06	Result below MDA
1300-562-1MA1 111214	12/14/11 10:20	12/07/11 - 12/14/11	-2.85E-17	9.72E-16	9.72E-16	2.09E-15	3.00E+06	Result below MDA
1300-562-1MA1 111221	12/21/11 08:04	12/14/11 - 12/21/11	1.81E-16	9.30E-16	9.30E-16	1.97E-15	2.95E+06	Result below MDA
1300-562-1MA1 111229	12/29/11 18:57	12/21/11 - 12/29/11	-4.99E-16	9.05E-16	9.07E-16	2.01E-15	2.53E+06	Result below MDA**

**NOTES:**

1. uCi/mL = microCuries per milliliter.
2. m<sup>3</sup> = cubic meters.
3. MDA = minimum detectable activity.
4. Gross beta analyzed using method LANL MLR-100 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the minimum procedural lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (UUSA, 2010).
6. \* = No stack flow and the particulate monitor was shut off. This is a supplementary filter pulling in room air and is not representative of an effluent release.  
See Section 2.4.
7. \*\* = Alpha and HF monitors turned off from 12/27/11 - 12/29/11 in conjunction with the Special Filtration Unit for a planned power outage.

**TABLE 3**  
**CENTRIFUGE TEST AND POST MORTEM FACILITIES (CTPMF)**  
**EXHAUST FILTRATION SYSTEM GASEOUS EFFLUENT**  
**QUARTERLY FILTER COMPOSITE RESULTS - RADIONUCLIDES**  
 URENCO USA  
 Lea County, New Mexico

Radionuclide / Sample ID	Sample Date	Sample Period	Results (uCi/mL)	Counting Uncertainty (uCi/mL)	Combined Standard Uncertainty (2-sigma) (uCi/mL)	MDA (uCi/mL)	Total CTPM Exhaust Filtration System Flow (m <sup>3</sup> )	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
Uranium-234 / 1300-562-1MA1 QTR3 2011	10/04/11 11:20	06/30/11 - 10/04/11	6.91E-17	3.79E-17	3.82E-17	2.42E-17	3.26E+07	2.25E-09	0.002%
Uranium-234 / 1300-562-1MA1 QTR4 2011	12/29/11 18:57	10/05/11 - 12/31/11	1.11E-17	1.55E-17	1.55E-17	2.35E-17	3.19E+07	Result below MDA	Result below MDA
Uranium-235 / 1300-562-1MA1 QTR3 2011	10/04/11 11:20	06/30/11 - 10/04/11	4.12E-18	1.26E-17	1.26E-17	2.99E-17	3.26E+07	Result below MDA	Result below MDA
Uranium-235 / 1300-562-1MA1 QTR4 2011	12/29/11 18:57	10/05/11 - 12/31/11	4.58E-18	1.10E-17	1.10E-17	2.30E-17	3.19E+07	Result below MDA	Result below MDA
Uranium-238 / 1300-562-1MA1 QTR3 2011	10/04/11 11:20	06/30/11 - 10/04/11	1.03E-16	4.67E-17	4.72E-17	2.64E-17	3.26E+07	3.36E-09	0.003%
Uranium-238 / 1300-562-1MA1 QTR4 2011	12/29/11 18:57	10/05/11 - 12/31/11	8.15E-18	1.25E-17	1.25E-17	1.86E-17	3.19E+07	Result below MDA	Result below MDA

**NOTES:**

1. uCi/mL = microCuries per milliliter.
2. m<sup>3</sup> = cubic meters.
3. MDA = minimum detectable activity.
4. Radionuclides analyzed using method EML U-02 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (UUSA, 2011).

**TABLE 4**  
**SEPARATION BUILDING MODULE-1001 (SBM-1001)**  
**PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM - GROSS ALPHA**  
 URENCO USA  
 Lea County, New Mexico

Sample ID	Sample Date	Sample Period	Gross Alpha (uCi/mL)				Total Vent System Flow (m <sup>3</sup> )	Quantity Released (Ci)
			Gross Alpha Results	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Alpha MDA		
<b>1001-562-1MA1</b>								
1001-562-1MA1 110706	07/06/11 08:19	06/30/11 - 07/06/11	-2.76E-16	3.37E-16	3.38E-16	9.66E-16	1.05E+05	Result below MDA
1001-562-1MA1 110713	07/13/11 08:50	07/06/11 - 07/13/11	-6.63E-16	3.97E-16	4.04E-16	1.20E-15	1.04E+05	Result below MDA
1001-562-1MA1 110720	07/20/11 13:17	07/13/11 - 07/20/11	-8.21E-17	2.55E-16	2.55E-16	6.96E-16	1.05E+05	Result below MDA
1001-562-1MA1 110727	07/27/11 09:42	07/20/11 - 07/27/11	-1.27E-16	2.49E-16	2.49E-16	7.18E-16	9.99E+04	Result below MDA
1001-562-1MA1 110803	08/03/11 14:36	07/27/11 - 08/03/11	1.29E-16	2.24E-16	2.24E-16	4.77E-16	1.06E+05	Result below MDA
1001-562-1MA1 110810	08/10/11 08:58	08/03/11 - 08/10/11	-9.56E-17	2.96E-16	2.96E-16	8.10E-16	9.91E+04	Result below MDA
1001-562-1MA1 110817	08/17/11 10:14	08/10/11 - 08/17/11	-2.23E-16	3.82E-16	3.83E-16	1.02E-15	1.03E+05	Result below MDA
1001-562-1MA1 110824	08/24/11 11:48	08/17/11 - 08/24/11	-3.14E-16	2.64E-16	2.66E-16	8.57E-16	1.05E+05	Result below MDA
1001-562-1MA1 110831	08/31/11 14:50	08/24/11 - 08/31/11	-2.84E-16	2.28E-16	2.30E-16	8.04E-16	1.05E+05	Result below MDA
1001-562-1MA1 110907	09/07/11 08:41	08/31/11 - 09/07/11	-8.75E-17	2.71E-16	2.71E-16	7.42E-16	1.01E+05	Result below MDA
1001-562-1MA1 110914	09/14/11 11:42	09/07/11 - 09/14/11	2.12E-16	2.49E-16	2.50E-16	4.68E-16	1.06E+05	Result below MDA
1001-562-1MA1 110921	09/21/11 11:30	09/14/11 - 09/21/11	-1.81E-16	2.51E-16	2.52E-16	7.68E-16	1.04E+05	Result below MDA
1001-562-1MA1 110928	09/28/11 15:40	09/21/11 - 09/28/11	-5.43E-16	3.93E-16	3.97E-16	1.14E-15	1.06E+05	Result below MDA
1001-562-1MA1 111006	10/06/11 08:45	09/28/11 - 10/06/11	-1.19E-16	2.33E-16	2.33E-16	6.71E-16	1.15E+05	Result below MDA
1001-562-1MA1 111012	10/12/11 15:50	10/06/11 - 10/12/11	2.04E-16	2.83E-16	2.84E-16	5.65E-16	9.16E+04	Result below MDA
1001-562-1MA1 111019	10/19/11 13:39	10/12/11 - 10/19/11	-4.56E-17	2.96E-16	2.96E-16	7.73E-16	1.03E+05	Result below MDA
1001-562-1MA1 111026	10/26/11 09:00	10/19/11 - 10/26/11	-4.63E-17	1.57E-16	1.57E-16	5.12E-16	1.02E+05	Result below MDA
1001-562-1MA1 111102	11/02/11 08:48	10/26/11 - 11/02/11	-5.61E-16	3.69E-16	3.74E-16	1.11E-15	1.06E+05	Result below MDA*
1001-562-1MA1 111109	11/09/11 10:49	11/02/11 - 11/09/11	8.53E-17	2.64E-16	2.65E-16	6.14E-16	1.08E+05	Result below MDA
1001-562-1MA1 111116	11/16/11 07:53	11/09/11 - 11/16/11	-3.52E-16	3.45E-16	3.47E-16	1.00E-15	1.03E+05	Result below MDA
1001-562-1MA1 111123	11/23/11 08:37	11/16/11 - 11/23/11	-4.35E-17	3.72E-16	3.72E-16	9.14E-16	1.06E+05	Result below MDA
1001-562-1MA1 111130	11/30/11 09:32	11/23/11 - 11/30/11	1.85E-16	1.82E-16	1.83E-16	1.39E-16	1.07E+05	1.99E-11
1001-562-1MA1 111207	12/07/11 10:53	11/30/11 - 12/07/11	-4.57E-16	4.20E-16	4.23E-16	1.18E-15	1.07E+05	Result below MDA
1001-562-1MA1 111214	12/14/11 08:45	12/07/11 - 12/14/11	-4.27E-17	2.22E-16	2.22E-16	6.15E-16	1.05E+05	Result below MDA
1001-562-1MA1 111221	12/21/11 08:45	12/14/11 - 12/21/11	-3.61E-16	3.54E-16	3.56E-16	1.03E-15	1.06E+05	Result below MDA
1001-562-1MA1 111228	12/28/11 09:51	12/21/11 - 12/28/11	-4.76E-16	3.50E-16	3.53E-16	1.05E-15	1.07E+05	Result below MDA

**TABLE 4**  
**SEPARATION BUILDING MODULE-1001 (SBM-1001)**  
**PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM - GROSS ALPHA**  
 URENCO USA  
 Lea County, New Mexico

Sample ID	Sample Date	Sample Period	Gross Alpha (uCi/mL)				Total Vent System Flow (m <sup>3</sup> )	Quantity Released (Ci)
			Gross Alpha Results	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Alpha MDA		
<b>1001-562-1MA2</b>								
1001-562-1MA2 110706	07/06/11 08:21	06/30/11 - 07/06/11	-2.00E-16	2.07E-16	2.08E-16	6.78E-16	1.10E+05	Result below MDA
1001-562-1MA2 110713	07/13/11 08:52	07/06/11 - 07/13/11	1.32E-16	2.28E-16	2.29E-16	4.87E-16	1.09E+05	Result below MDA
1001-562-1MA2 110720	07/20/11 13:19	07/13/11 - 07/20/11	8.79E-17	3.22E-16	3.22E-16	7.45E-16	1.11E+05	Result below MDA
1001-562-1MA2 110727	07/27/11 09:44	07/20/11 - 07/27/11	-9.52E-17	2.28E-16	2.29E-16	6.85E-16	1.06E+05	Result below MDA
1001-562-1MA2 110803	08/03/11 14:37	07/27/11 - 08/03/11	-2.85E-16	2.39E-16	2.41E-16	7.78E-16	1.11E+05	Result below MDA
1001-562-1MA2 110810	08/10/11 08:55	08/03/11 - 08/10/11	-1.39E-16	2.72E-16	2.73E-16	7.85E-16	1.04E+05	Result below MDA
1001-562-1MA2 110817	08/17/11 10:09	08/10/11 - 08/17/11	1.43E-16	2.47E-16	2.48E-16	5.27E-16	1.08E+05	Result below MDA
1001-562-1MA2 110824	08/24/11 11:45	08/17/11 - 08/24/11	-9.46E-17	2.27E-16	2.27E-16	6.81E-16	1.10E+05	Result below MDA
1001-562-1MA2 110831	08/31/11 14:45	08/24/11 - 08/31/11	-8.81E-17	2.11E-16	2.12E-16	6.34E-16	1.09E+05	Result below MDA
1001-562-1MA2 110907	09/07/11 08:37	08/31/11 - 09/07/11	-2.08E-16	3.15E-16	3.16E-16	8.73E-16	1.05E+05	Result below MDA
1001-562-1MA2 110914	09/14/11 14:14	09/07/11 - 09/14/11	-2.40E-16	2.93E-16	2.94E-16	8.40E-16	1.12E+05	Result below MDA
1001-562-1MA2 110921	09/21/11 11:27	09/14/11 - 09/21/11	-2.27E-16	2.35E-16	2.36E-16	7.68E-16	1.07E+05	Result below MDA
1001-562-1MA2 110928	09/28/11 15:36	09/21/11 - 09/28/11	-6.27E-16	3.43E-16	3.50E-16	1.06E-15	1.10E+05	Result below MDA
1001-562-1MA2 111006	10/06/11 08:47	09/28/11 - 10/06/11	-1.18E-16	2.78E-16	2.78E-16	7.52E-16	1.19E+05	Result below MDA
1001-562-1MA2 111012	10/12/11 15:52	10/06/11 - 10/12/11	4.51E-17	3.64E-16	3.64E-16	8.62E-16	9.48E+04	Result below MDA
1001-562-1MA2 111019	10/19/11 13:36	10/12/11 - 10/19/11	-4.26E-17	2.21E-16	2.21E-16	6.13E-16	1.06E+05	Result below MDA
1001-562-1MA2 111026	10/26/11 09:01	10/19/11 - 10/26/11	1.69E-16	2.34E-16	2.35E-16	4.67E-16	1.07E+05	Result below MDA
1001-562-1MA2 111102	11/02/11 08:45	10/26/11 - 11/02/11	1.37E-16	2.98E-16	2.98E-16	6.59E-16	1.10E+05	Result below MDA*
1001-562-1MA2 111109	11/09/11 10:46	11/02/11 - 11/09/11	2.21E-16	1.94E-16	1.95E-16	1.33E-16	1.12E+05	2.48E-11
1001-562-1MA2 111116	11/16/11 07:55	11/09/11 - 11/16/11	-4.24E-17	2.75E-16	2.75E-16	7.19E-16	1.08E+05	Result below MDA
1001-562-1MA2 111123	11/23/11 08:39	11/16/11 - 11/23/11	4.50E-17	2.65E-16	2.65E-16	6.48E-16	1.10E+05	Result below MDA
1001-562-1MA2 111130	11/30/11 09:29	11/23/11 - 11/30/11	3.22E-16	2.23E-16	2.26E-16	1.21E-16	1.11E+05	3.59E-11
1001-562-1MA2 111207	12/07/11 10:51	11/30/11 - 12/07/11	4.65E-17	2.04E-16	2.04E-16	5.14E-16	1.12E+05	Result below MDA
1001-562-1MA2 111214	12/14/11 08:49	12/07/11 - 12/14/11	3.03E-16	2.24E-16	2.27E-16	1.30E-16	1.09E+05	3.30E-11
1001-562-1MA2 111221	12/21/11 08:49	12/14/11 - 12/21/11	-4.30E-17	2.79E-16	2.79E-16	7.29E-16	1.10E+05	Result below MDA
1001-562-1MA2 111228	12/28/11 09:48	12/21/11 - 12/28/11	-2.64E-16	2.22E-16	2.24E-16	7.21E-16	1.10E+05	Result below MDA

**NOTES:**

1. uCi/mL = microCuries per milliliter.
2. m<sup>3</sup> = cubic meters.
3. MDA = minimum detectable activity.
4. Gross alpha analyzed using method LANL MLR-100 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (UUSA, 2011).
6. \* = Data for the collected filters are incorrect, see Section 2.4.

**TABLE 5**  
**SEPARATION BUILDING MODULE-1001 (SBM-1001)**  
**PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM - GROSS BETA**  
 URENCO USA  
 Lea County, New Mexico

Sample ID	Sample Date	Sample Period	Gross Beta (uCi/mL)				Total Vent System Flow (m <sup>3</sup> )	Quantity Released (Ci)
			Gross Beta Results	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Beta MDA		
<b>1001-562-1MA1</b>								
1001-562-1MA1 110706	07/06/11 08:19	06/30/11 - 07/06/11	3.29E-16	9.66E-16	9.67E-16	2.03E-15	1.05E+05	Result below MDA
1001-562-1MA1 110713	07/13/11 08:50	07/06/11 - 07/13/11	2.38E-16	8.57E-16	8.58E-16	1.81E-15	1.04E+05	Result below MDA
1001-562-1MA1 110720	07/20/11 13:17	07/13/11 - 07/20/11	-2.00E-16	7.07E-16	7.08E-16	1.56E-15	1.05E+05	Result below MDA
1001-562-1MA1 110727	07/27/11 09:42	07/20/11 - 07/27/11	2.55E-17	7.28E-16	7.28E-16	1.57E-15	9.99E+04	Result below MDA
1001-562-1MA1 110803	08/03/11 14:36	07/27/11 - 08/03/11	-8.91E-16	8.54E-16	8.63E-16	1.93E-15	1.06E+05	Result below MDA
1001-562-1MA1 110810	08/10/11 08:58	08/03/11 - 08/10/11	1.12E-16	9.10E-16	9.11E-16	1.94E-15	9.91E+04	Result below MDA
1001-562-1MA1 110817	08/17/11 10:14	08/10/11 - 08/17/11	-8.95E-16	1.06E-15	1.07E-15	2.35E-15	1.03E+05	Result below MDA
1001-562-1MA1 110824	08/24/11 11:48	08/17/11 - 08/24/11	-1.83E-16	8.75E-16	8.75E-16	1.90E-15	1.05E+05	Result below MDA
1001-562-1MA1 110831	08/31/11 14:50	08/24/11 - 08/31/11	5.40E-16	9.16E-16	9.19E-16	1.90E-15	1.05E+05	Result below MDA
1001-562-1MA1 110907	09/07/11 08:41	08/31/11 - 09/07/11	2.54E-16	7.21E-16	7.22E-16	1.52E-15	1.01E+05	Result below MDA
1001-562-1MA1 110914	09/14/11 11:42	09/07/11 - 09/14/11	7.56E-17	7.83E-16	7.83E-16	1.67E-15	1.06E+05	Result below MDA
1001-562-1MA1 110921	09/21/11 11:30	09/14/11 - 09/21/11	-1.19E-15	9.61E-16	9.76E-16	2.20E-15	1.04E+05	Result below MDA
1001-562-1MA1 110928	09/28/11 15:40	09/21/11 - 09/28/11	5.00E-16	8.27E-16	8.29E-16	1.71E-15	1.06E+05	Result below MDA
1001-562-1MA1 111006	10/06/11 08:45	09/28/11 - 10/06/11	0.00E+00	7.95E-16	7.95E-16	1.70E-15	1.15E+05	Result below MDA
1001-562-1MA1 111012	10/12/11 15:50	10/06/11 - 10/12/11	1.51E-15	8.97E-16	9.21E-16	1.72E-15	9.16E+04	Result below MDA
1001-562-1MA1 111019	10/19/11 13:39	10/12/11 - 10/19/11	-5.26E-16	8.81E-16	8.84E-16	1.95E-15	1.03E+05	Result below MDA
1001-562-1MA1 111026	10/26/11 09:00	10/19/11 - 10/26/11	2.65E-16	8.89E-16	8.90E-16	1.88E-15	1.02E+05	Result below MDA
1001-562-1MA1 111102	11/02/11 08:48	10/26/11 - 11/02/11	-3.30E-16	8.31E-16	8.32E-16	1.82E-15	1.06E+05	Result below MDA*
1001-562-1MA1 111109	11/09/11 10:49	11/02/11 - 11/09/11	9.91E-16	7.44E-16	7.56E-16	1.47E-15	1.08E+05	Result below MDA
1001-562-1MA1 111116	11/16/11 07:53	11/09/11 - 11/16/11	7.73E-17	7.87E-16	7.87E-16	1.68E-15	1.03E+05	Result below MDA
1001-562-1MA1 111123	11/23/11 08:37	11/16/11 - 11/23/11	-5.28E-16	1.08E-15	1.09E-15	2.36E-15	1.06E+05	Result below MDA
1001-562-1MA1 111130	11/30/11 09:32	11/23/11 - 11/30/11	5.39E-17	9.42E-16	9.42E-16	2.01E-15	1.07E+05	Result below MDA
1001-562-1MA1 111207	12/07/11 10:53	11/30/11 - 12/07/11	-5.46E-16	9.44E-16	9.47E-16	2.08E-15	1.07E+05	Result below MDA
1001-562-1MA1 111214	12/14/11 08:45	12/07/11 - 12/14/11	-1.59E-15	8.02E-16	8.32E-16	1.91E-15	1.05E+05	Result below MDA
1001-562-1MA1 111221	12/21/11 08:45	12/14/11 - 12/21/11	-1.26E-15	8.83E-16	9.00E-16	2.04E-15	1.06E+05	Result below MDA
1001-562-1MA1 111228	12/28/11 09:51	12/21/11 - 12/28/11	-4.55E-16	9.17E-16	9.19E-16	2.01E-15	1.07E+05	Result below MDA

**TABLE 5**  
**SEPARATION BUILDING MODULE-1001 (SBM-1001)**  
**PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM - GROSS BETA**  
 URENCO USA  
 Lea County, New Mexico

Sample ID	Sample Date	Sample Period	Gross Beta (uCi/mL)				Total Vent System Flow (m <sup>3</sup> )	Quantity Released (Ci)
			Gross Beta Results	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	Gross Beta MDA		
<b>1001-562-1MA2</b>								
1001-562-1MA2 110706	07/06/11 08:21	06/30/11 - 07/06/11	1.18E-15	7.21E-16	7.39E-16	1.39E-15	1.10E+05	Result below MDA
1001-562-1MA2 110713	07/13/11 08:52	07/06/11 - 07/13/11	-1.17E-15	8.56E-16	8.71E-16	1.97E-15	1.09E+05	Result below MDA
1001-562-1MA2 110720	07/20/11 13:19	07/13/11 - 07/20/11	-3.80E-16	7.84E-16	7.86E-16	1.74E-15	1.11E+05	Result below MDA
1001-562-1MA2 110727	07/27/11 09:44	07/20/11 - 07/27/11	-8.43E-16	9.12E-16	9.20E-16	2.05E-15	1.06E+05	Result below MDA
1001-562-1MA2 110803	08/03/11 14:37	07/27/11 - 08/03/11	-8.85E-16	7.55E-16	7.65E-16	1.73E-15	1.11E+05	Result below MDA
1001-562-1MA2 110810	08/10/11 08:55	08/03/11 - 08/10/11	-4.42E-16	8.31E-16	8.33E-16	1.85E-15	1.04E+05	Result below MDA
1001-562-1MA2 110817	08/17/11 10:09	08/10/11 - 08/17/11	4.47E-16	9.55E-16	9.56E-16	1.99E-15	1.08E+05	Result below MDA
1001-562-1MA2 110824	08/24/11 11:45	08/17/11 - 08/24/11	-1.20E-15	9.34E-16	9.49E-16	2.14E-15	1.10E+05	Result below MDA
1001-562-1MA2 110831	08/31/11 14:45	08/24/11 - 08/31/11	-1.52E-15	8.88E-16	9.13E-16	2.07E-15	1.09E+05	Result below MDA
1001-562-1MA2 110907	09/07/11 08:37	08/31/11 - 09/07/11	-1.22E-16	7.57E-16	7.58E-16	1.65E-15	1.05E+05	Result below MDA
1001-562-1MA2 110914	09/14/11 14:14	09/07/11 - 09/14/11	-1.67E-16	8.15E-16	8.16E-16	1.77E-15	1.12E+05	Result below MDA
1001-562-1MA2 110921	09/21/11 11:27	09/14/11 - 09/21/11	-1.19E-15	9.61E-16	9.76E-16	2.20E-15	1.07E+05	Result below MDA
1001-562-1MA2 110928	09/28/11 15:36	09/21/11 - 09/28/11	3.28E-16	7.66E-16	7.68E-16	1.61E-15	1.10E+05	Result below MDA
1001-562-1MA2 111006	10/06/11 08:47	09/28/11 - 10/06/11	-8.64E-16	8.39E-16	8.47E-16	1.90E-15	1.19E+05	Result below MDA
1001-562-1MA2 111012	10/12/11 15:52	10/06/11 - 10/12/11	-1.90E-16	7.83E-16	7.83E-16	1.72E-15	9.48E+04	Result below MDA
1001-562-1MA2 111019	10/19/11 13:36	10/12/11 - 10/19/11	3.02E-16	7.82E-16	7.83E-16	1.64E-15	1.06E+05	Result below MDA
1001-562-1MA2 111026	10/26/11 09:01	10/19/11 - 10/26/11	-2.44E-16	7.62E-16	7.63E-16	1.67E-15	1.07E+05	Result below MDA
1001-562-1MA2 111102	11/02/11 08:45	10/26/11 - 11/02/11	3.93E-16	8.19E-16	8.21E-16	1.71E-15	1.10E+05	Result below MDA*
1001-562-1MA2 111109	11/09/11 10:46	11/02/11 - 11/09/11	-4.94E-16	8.48E-16	8.50E-16	1.88E-15	1.12E+05	Result below MDA
1001-562-1MA2 111116	11/16/11 07:55	11/09/11 - 11/16/11	4.04E-16	7.67E-16	7.69E-16	1.60E-15	1.08E+05	Result below MDA
1001-562-1MA2 111123	11/23/11 08:39	11/16/11 - 11/23/11	-9.23E-16	7.47E-16	7.58E-16	1.74E-15	1.10E+05	Result below MDA
1001-562-1MA2 111130	11/30/11 09:29	11/23/11 - 11/30/11	-1.42E-15	9.55E-16	9.75E-16	2.17E-15	1.11E+05	Result below MDA
1001-562-1MA2 111207	12/07/11 10:51	11/30/11 - 12/07/11	-4.06E-16	9.01E-16	9.03E-16	1.98E-15	1.12E+05	Result below MDA
1001-562-1MA2 111214	12/14/11 08:49	12/07/11 - 12/14/11	-2.46E-16	8.60E-16	8.61E-16	1.87E-15	1.09E+05	Result below MDA
1001-562-1MA2 111221	12/21/11 08:49	12/14/11 - 12/21/11	2.51E-17	8.66E-16	8.66E-16	1.85E-15	1.10E+05	Result below MDA
1001-562-1MA2 111228	12/28/11 09:48	12/21/11 - 12/28/11	-1.07E-15	7.19E-16	7.34E-16	1.67E-15	1.10E+05	Result below MDA

**NOTES:**

1. uCi/mL = microCuries per milliliter.
2. m<sup>3</sup> = cubic meters.
3. MDA = minimum detectable activity.
4. Gross beta analyzed using method LANL MLR-100 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the minimum procedural lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (UUSA, 2010).
6. \* = Data for the collected filters are incorrect, see Section 2.4.

**TABLE 6**  
**SEPARATION BUILDING MODULE-1001 (SBM-1001)**  
**PUMPED EXTRACT GASEOUS EFFLUENT VENT SYSTEM**  
**QUARTERLY FILTER COMPOSITE RESULTS - RADIONUCLIDES**  
 URENCO USA  
 Lea County, New Mexico

Radionuclide / Sample ID	Sample Date	Sample Period	Results (uCi/mL)	Counting Uncertainty	Combined Standard Uncertainty (2-sigma)	MDA (uCi/mL)	Total Flow (m <sup>3</sup> )	Quantity Released (Ci)	% of Table 2 of Appendix B to 10 CFR Part 20 Values
<b>1001-562-1MA1</b>									
Uranium-234 / 1001-562-1MA1 QTR3 2011	09/28/11 15:40	06/30/11 - 09/28/11	2.34E-17	4.46E-17	4.47E-17	8.26E-17	1.35E+06	Result below MDA	Result below MDA
Uranium-234 / 1001-562-1MA1 QTR4 2011	12/28/11 09:51	09/29/11 - 12/31/11	4.71E-18	1.69E-17	1.69E-17	3.83E-17	1.37E+06	Result below MDA	Result below MDA
Uranium-235 / 1001-562-1MA1 QTR3 2011	09/28/11 15:40	06/30/11 - 09/28/11	2.56E-17	5.54E-17	5.55E-17	1.10E-16	1.35E+06	Result below MDA	Result below MDA
Uranium-235 / 1001-562-1MA1 QTR4 2011	12/28/11 09:51	09/29/11 - 12/31/11	2.26E-17	2.87E-17	2.87E-17	4.29E-17	1.37E+06	Result below MDA	Result below MDA
Uranium-238 / 1001-562-1MA1 QTR3 2011	09/28/11 15:40	06/30/11 - 09/28/11	1.03E-17	3.16E-17	3.16E-17	7.49E-17	1.35E+06	Result below MDA	Result below MDA
Uranium-238 / 1001-562-1MA1 QTR4 2011	12/28/11 09:51	09/29/11 - 12/31/11	1.44E-17	2.00E-17	2.00E-17	3.04E-17	1.37E+06	Result below MDA	Result below MDA
<b>1001-562-1MA2</b>									
Uranium-234 / 1001-562-1MA2 QTR3 2011	09/28/11 15:36	06/30/11 - 09/28/11	2.19E-17	2.37E-17	2.38E-17	2.86E-17	1.41E+06	Result below MDA	Result below MDA
Uranium-234 / 1001-562-1MA2 QTR4 2011	12/28/11 09:48	09/29/11 - 12/31/11	7.99E-18	1.11E-17	1.11E-17	1.68E-17	1.42E+06	Result below MDA	Result below MDA
Uranium-235 / 1001-562-1MA2 QTR3 2011	09/28/11 15:36	06/30/11 - 09/28/11	1.48E-17	2.51E-17	2.51E-17	4.42E-17	1.41E+06	Result below MDA	Result below MDA
Uranium-235 / 1001-562-1MA2 QTR4 2011	12/28/11 09:48	09/29/11 - 12/31/11	5.94E-19	8.30E-18	8.30E-18	2.37E-17	1.42E+06	Result below MDA	Result below MDA
Uranium-238 / 1001-562-1MA2 QTR3 2011	09/28/11 15:36	06/30/11 - 09/28/11	1.01E-18	1.18E-17	1.18E-17	2.49E-17	1.41E+06	Result below MDA	Result below MDA
Uranium-238 / 1001-562-1MA2 QTR4 2011	12/28/11 09:48	09/29/11 - 12/31/11	6.87E-18	1.11E-17	1.11E-17	1.91E-17	1.42E+06	Result below MDA	Result below MDA

**NOTES:**

1. uCi/mL = microCuries per milliliter.
2. m<sup>3</sup> = cubic meters.
3. MDA = minimum detectable activity.
4. Radionuclides analyzed using method EML U-02 Modified by Eberline Services of Oak Ridge, TN.
5. All detected activity values were less than the facility-required lower level of detection of 1.0E-14 uCi/mL for gaseous effluent samples (UUSA, 2011).

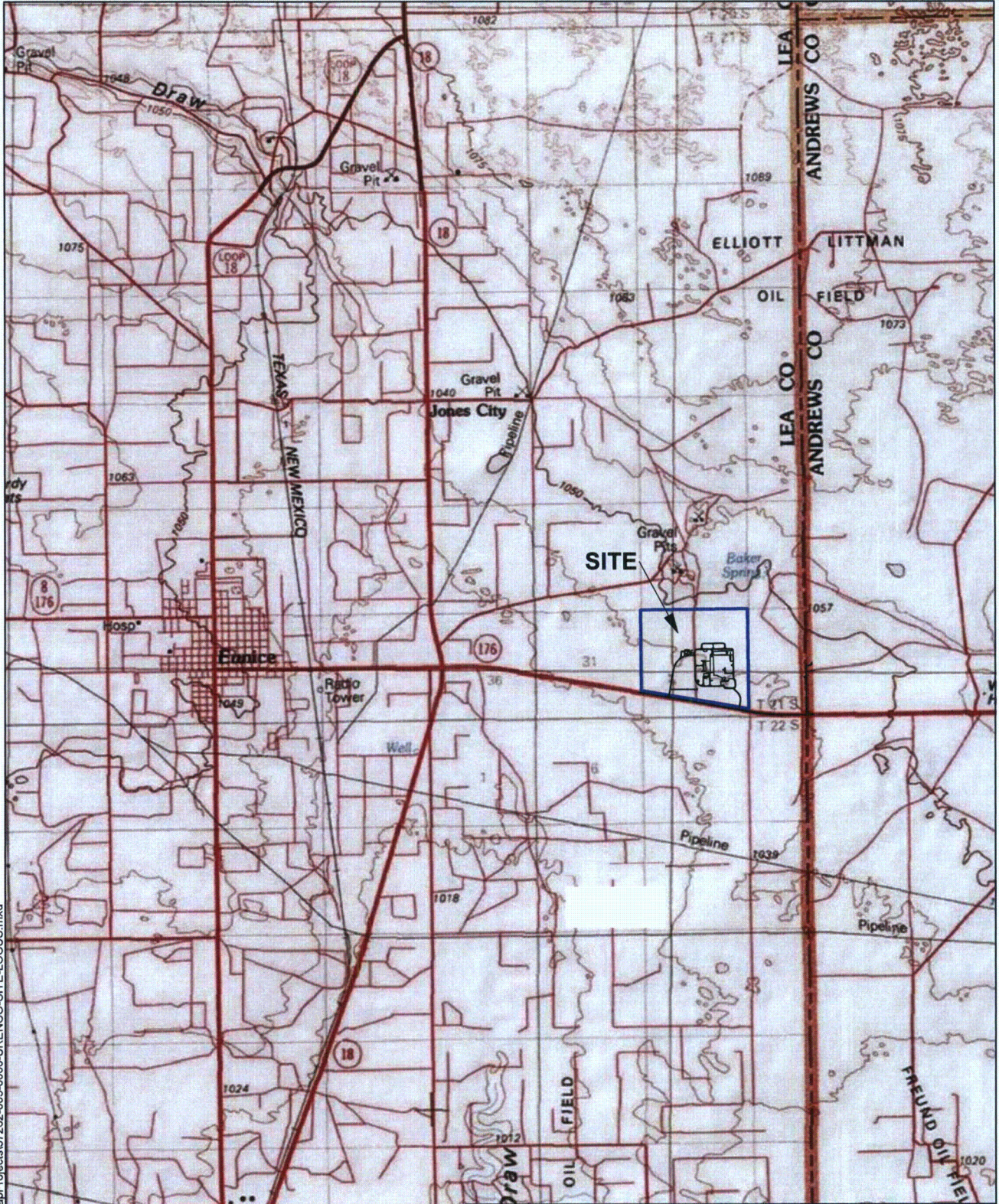


**TABLE 7**  
**LIFT STATION 1 WASTEWATER EFFLUENT - RADIONUCLIDES**  
 URENCO USA  
 Lea County, New Mexico

Radionuclide	Sample Date	Sample Period	Total Time (days)	Results (uCi/mL)	Counting Uncertainty (uCi/mL)	Combined Standard Uncertainty (2-sigma) (uCi/mL)	MDA (uCi/mL)	Total Flow (gallons/day)*	Quantity Released (Ci)	% of Table 3 of Appendix B to 10 CFR Part 20 Values - Monthly Average Releases to Sewers
<b>LIFT STATION 1 - Q3 2011</b>										
Uranium - 234	07/14/11 07:15	04/13/11 - 07/14/11	93	6.22E-10	1.13E-10	1.42E-10	4.94E-11	13,000	2.86E-06	0.02%
Uranium - 235	07/14/11 07:15	04/13/11 - 07/14/11	93	1.91E-11	2.16E-11	2.18E-11	1.91E-11	13,000	8.77E-08	0.001%
Uranium - 238	07/14/11 07:15	04/13/11 - 07/14/11	93	3.61E-10	8.45E-11	9.83E-11	1.55E-11	13,000	1.66E-06	0.01%
<b>LIFT STATION 1 - Q4 2011</b>										
Uranium - 234	10/11/11 13:30	07/15/11 - 10/11/11	89	1.77E-09	1.56E-10	2.86E-10	5.03E-11	13,000	7.77E-06	0.06%
Uranium - 235	10/11/11 13:30	07/15/11 - 10/11/11	89	3.89E-11	3.28E-11	3.32E-11	4.77E-11	13,000	1.71E-07	0.001%
Uranium - 238	10/11/11 13:30	07/15/11 - 10/11/11	89	8.94E-10	1.12E-10	1.65E-10	5.03E-11	13,000	3.93E-06	0.03%

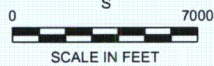
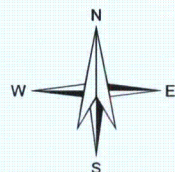
**NOTES:**

1. uCi/mL = microCuries per milliliter.
2. MDA = minimum detectable activity.
3. Radionuclides analyzed using method EML U-02 Modified by GEL Laboratories, LLC of Charleston, SC.
4. All detected activity values were less than the facility-required lower level detection limit of 3.0E-9 uCi/mL for liquid effluent samples (UUSA, 2011).
5. \* = Table 3.4-4 "Anticipated Normal Plant Water Consumption" lists "Total Personnel Water Use" as approximately 13,000 gallons per day (UUSA, 2011).
6. New Mexico Administrative Code 20.6.2.7.AAA: "Water contaminant" means any substance that could alter if discharged or spilled they physical, chemical, biological or radiological qualities of water; "water contaminant" does not mean source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954.



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SITE COORDINATES: 32.436181 103.0821



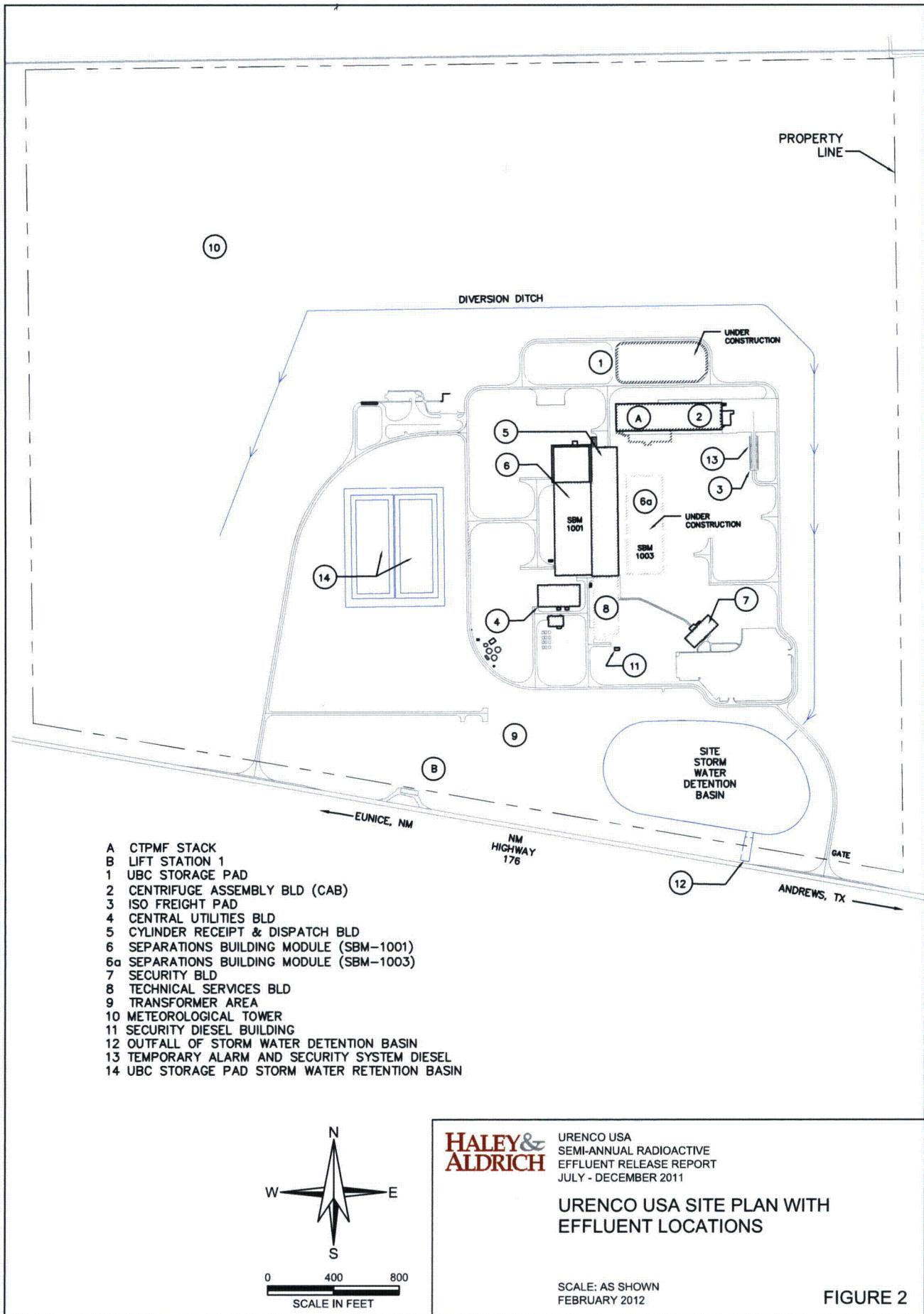
**HALEY & ALDRICH**

URENCO USA  
SEMI-ANNUAL RADIOACTIVE  
EFFLUENT RELEASE REPORT  
LEA COUNTY, NM

**SITE LOCATION MAP**

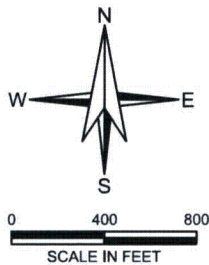
SCALE: AS SHOWN  
FEBRUARY 2012

**FIGURE 1**



G:\37262\_URENCO\_USA\GLOBAL\CAD\37262-005-0000-SITE-MAP\_FIGURE2\_2012.DWG

- A CTPMF STACK
- B LIFT STATION 1
- 1 UBC STORAGE PAD
- 2 CENTRIFUGE ASSEMBLY BLD (CAB)
- 3 ISO FREIGHT PAD
- 4 CENTRAL UTILITIES BLD
- 5 CYLINDER RECEIPT & DISPATCH BLD
- 6 SEPARATIONS BUILDING MODULE (SBM-1001)
- 6a SEPARATIONS BUILDING MODULE (SBM-1003)
- 7 SECURITY BLD
- 8 TECHNICAL SERVICES BLD
- 9 TRANSFORMER AREA
- 10 METEOROLOGICAL TOWER
- 11 SECURITY DIESEL BUILDING
- 12 OUTFALL OF STORM WATER DETENTION BASIN
- 13 TEMPORARY ALARM AND SECURITY SYSTEM DIESEL
- 14 UBC STORAGE PAD STORM WATER RETENTION BASIN



**HALEY & ALDRICH**

URENCO USA  
SEMI-ANNUAL RADIOACTIVE  
EFFLUENT RELEASE REPORT  
JULY - DECEMBER 2011

**URENCO USA SITE PLAN WITH  
EFFLUENT LOCATIONS**

SCALE: AS SHOWN  
FEBRUARY 2012

**FIGURE 2**

**APPENDIX A**

**Vent Flow and Lab Data Sheets**

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:							Work Order Details:					
			Wes Terry							SDG:	11-10065				
			URENCO USA							Purchase Order:	LES-GSA-3080				
			275 Hwy 176							Analysis Category:	ENVIRONMENTAL				
Eunice, NM 88231							Sample Matrix:	AF							
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Sample Vol (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
11-10065-01	LCS	KNOWN	10/17/11 00:00	10/17/2011	10/20/2011		11-10065	Gross Alpha	LANL MLR-100 Modified	3.14E-04	1.35E-05			uCi/ml	
11-10065-01	LCS	SPIKE	10/17/11 00:00	10/17/2011	10/20/2011		11-10065	Gross Alpha	LANL MLR-100 Modified	2.97E-04	7.68E-06	3.34E-05	4.49E-07	uCi/ml	
11-10065-02	MBL	BLANK	10/17/11 00:00	10/17/2011	10/20/2011		11-10065	Gross Alpha	LANL MLR-100 Modified	-8.92E-17	3.71E-16	3.71E-16	9.37E-16	uCi/ml	
11-10065-03	DUP	1001-562-1MA1 110706	07/06/11 08:19	10/17/2011	10/20/2011	2.87E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-9.16E-17	2.84E-16	2.84E-16	7.76E-16	uCi/ml	
11-10065-04	DO	1001-562-1MA1 110706	07/06/11 08:19	10/17/2011	10/20/2011	2.87E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-2.76E-16	3.37E-16	3.38E-16	9.66E-16	uCi/ml	
11-10065-05	TRG	1001-562-1MA1 110713	07/13/11 08:50	10/17/2011	10/20/2011	2.95E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-6.63E-16	3.97E-16	4.04E-16	1.20E-15	uCi/ml	
11-10065-06	TRG	1001-562-1MA1 110720	07/20/11 13:17	10/17/2011	10/20/2011	3.08E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-8.21E-17	2.55E-16	2.55E-16	6.96E-16	uCi/ml	
11-10065-07	TRG	1001-562-1MA1 110727	07/27/11 09:42	10/17/2011	10/20/2011	2.95E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-1.27E-16	2.49E-16	2.49E-16	7.18E-16	uCi/ml	
11-10065-08	TRG	1001-562-1MA1 110803	08/03/11 14:36	10/17/2011	10/20/2011	3.08E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	1.29E-16	2.24E-16	2.24E-16	4.77E-16	uCi/ml	
11-10065-09	TRG	1001-562-1MA1 110810	08/10/11 08:58	10/17/2011	10/20/2011	2.80E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-9.56E-17	2.96E-16	2.96E-16	8.10E-16	uCi/ml	
11-10065-10	TRG	1001-562-1MA1 110817	08/17/11 10:14	10/17/2011	10/20/2011	2.91E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-2.23E-16	3.82E-16	3.83E-16	1.02E-15	uCi/ml	
11-10065-11	TRG	1001-562-1MA1 110824	08/24/11 11:48	10/17/2011	10/20/2011	3.06E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-3.14E-16	2.64E-16	2.66E-16	8.57E-16	uCi/ml	
11-10065-12	TRG	1001-562-1MA1 110831	08/31/11 14:50	10/17/2011	10/20/2011	2.91E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-2.84E-16	2.28E-16	2.30E-16	8.04E-16	uCi/ml	
11-10065-13	TRG	1001-562-1MA1 110907	09/07/11 08:41	10/17/2011	10/20/2011	2.96E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-8.75E-17	2.71E-16	2.71E-16	7.42E-16	uCi/ml	
11-10065-14	TRG	1001-562-1MA1 110914	09/14/11 11:42	10/17/2011	10/20/2011	3.04E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	2.12E-16	2.49E-16	2.50E-16	4.68E-16	uCi/ml	
11-10065-15	TRG	1001-562-1MA1 110921	09/21/11 11:30	10/17/2011	10/20/2011	2.90E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-1.81E-16	2.51E-16	2.52E-16	7.68E-16	uCi/ml	
11-10065-16	TRG	1001-562-1MA1 110928	09/28/11 15:40	10/17/2011	10/20/2011	3.12E+08	11-10065	Gross Alpha	LANL MLR-100 Modified	-5.43E-16	3.93E-16	3.97E-16	1.14E-15	uCi/ml	
11-10065-01	LCS	KNOWN	10/17/11 00:00	10/17/2011	10/20/2011		11-10065	Gross Beta	LANL MLR-100 Modified	2.29E-04	6.88E-06			uCi/ml	
11-10065-01	LCS	SPIKE	10/17/11 00:00	10/17/2011	10/20/2011		11-10065	Gross Beta	LANL MLR-100 Modified	2.37E-04	5.74E-06	3.33E-05	8.44E-07	uCi/ml	
11-10065-02	MBL	BLANK	10/17/11 00:00	10/17/2011	10/20/2011		11-10065	Gross Beta	LANL MLR-100 Modified	-2.66E-17	9.18E-16	9.18E-16	1.97E-15	uCi/ml	
11-10065-03	DUP	1001-562-1MA1 110706	07/06/11 08:19	10/17/2011	10/20/2011	2.87E+08	11-10065	Gross Beta	LANL MLR-100 Modified	-4.31E-16	1.01E-15	1.02E-15	2.22E-15	uCi/ml	
11-10065-04	DO	1001-562-1MA1 110706	07/06/11 08:19	10/17/2011	10/20/2011	2.87E+08	11-10065	Gross Beta	LANL MLR-100 Modified	3.29E-16	9.66E-16	9.67E-16	2.03E-15	uCi/ml	
11-10065-05	TRG	1001-562-1MA1 110713	07/13/11 08:50	10/17/2011	10/20/2011	2.95E+08	11-10065	Gross Beta	LANL MLR-100 Modified	2.38E-16	8.57E-16	8.58E-16	1.81E-15	uCi/ml	
11-10065-06	TRG	1001-562-1MA1 110720	07/20/11 13:17	10/17/2011	10/20/2011	3.08E+08	11-10065	Gross Beta	LANL MLR-100 Modified	-2.00E-16	7.07E-16	7.08E-16	1.56E-15	uCi/ml	
11-10065-07	TRG	1001-562-1MA1 110727	07/27/11 09:42	10/17/2011	10/20/2011	2.95E+08	11-10065	Gross Beta	LANL MLR-100 Modified	2.55E-17	7.28E-16	7.28E-16	1.57E-15	uCi/ml	
11-10065-08	TRG	1001-562-1MA1 110803	08/03/11 14:36	10/17/2011	10/20/2011	3.08E+08	11-10065	Gross Beta	LANL MLR-100 Modified	-8.91E-16	8.54E-16	8.63E-16	1.93E-15	uCi/ml	
11-10065-09	TRG	1001-562-1MA1 110810	08/10/11 08:58	10/17/2011	10/20/2011	2.80E+08	11-10065	Gross Beta	LANL MLR-100 Modified	1.12E-16	9.10E-16	9.11E-16	1.94E-15	uCi/ml	
11-10065-10	TRG	1001-562-1MA1 110817	08/17/11 10:14	10/17/2011	10/20/2011	2.91E+08	11-10065	Gross Beta	LANL MLR-100 Modified	-8.95E-16	1.06E-15	1.07E-15	2.35E-15	uCi/ml	
11-10065-11	TRG	1001-562-1MA1 110824	08/24/11 11:48	10/17/2011	10/20/2011	3.06E+08	11-10065	Gross Beta	LANL MLR-100 Modified	-1.83E-16	8.75E-16	8.75E-16	1.90E-15	uCi/ml	
11-10065-12	TRG	1001-562-1MA1 110831	08/31/11 14:50	10/17/2011	10/20/2011	2.91E+08	11-10065	Gross Beta	LANL MLR-100 Modified	5.40E-16	9.16E-16	9.19E-16	1.90E-15	uCi/ml	
11-10065-13	TRG	1001-562-1MA1 110907	09/07/11 08:41	10/17/2011	10/20/2011	2.96E+08	11-10065	Gross Beta	LANL MLR-100 Modified	2.54E-16	7.21E-16	7.22E-16	1.52E-15	uCi/ml	
11-10065-14	TRG	1001-562-1MA1 110914	09/14/11 11:42	10/17/2011	10/20/2011	3.04E+08	11-10065	Gross Beta	LANL MLR-100 Modified	7.56E-17	7.83E-16	7.83E-16	1.67E-15	uCi/ml	
11-10065-15	TRG	1001-562-1MA1 110921	09/21/11 11:30	10/17/2011	10/20/2011	2.90E+08	11-10065	Gross Beta	LANL MLR-100 Modified	-1.19E-15	9.61E-16	9.76E-16	2.20E-15	uCi/ml	
11-10065-16	TRG	1001-562-1MA1 110928	09/28/11 15:40	10/17/2011	10/20/2011	3.12E+08	11-10065	Gross Beta	LANL MLR-100 Modified	5.00E-16	8.27E-16	8.29E-16	1.71E-15	uCi/ml	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:							Work Order Details:					
			Wes Terry							SDG:	11-10067				
			Urenco USA							Purchase Order:	LES-GSA-3080				
			275 Hwy 176							Analysis Category:	ENVIRONMENTAL				
			Eunice, NM 88231							Sample Matrix:	AF				
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Sample Vol (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
11-10067-01	LCS	KNOWN	10/17/11 00:00	10/17/2011	10/20/2011		11-10067	Gross Alpha	LANL MLR-100 Modified	3.12E-04	1.34E-05			uCi/ml	
11-10067-01	LCS	SPIKE	10/17/11 00:00	10/17/2011	10/20/2011		11-10067	Gross Alpha	LANL MLR-100 Modified	2.85E-04	7.47E-06	3.20E-05	3.59E-07	uCi/ml	
11-10067-02	MBL	BLANK	10/17/11 00:00	10/17/2011	10/20/2011		11-10067	Gross Alpha	LANL MLR-100 Modified	7.29E-17	1.75E-16	1.75E-16	4.03E-16	uCi/ml	
11-10067-03	DUP	1300-562-1MA1 110706	07/06/11 10:10	10/17/2011	10/20/2011	2.88E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-1.38E-16	2.01E-16	2.02E-16	6.62E-16	uCi/ml	
11-10067-04	DO	1300-562-1MA1 110706	07/06/11 10:10	10/17/2011	10/20/2011	2.88E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-8.85E-17	2.13E-16	2.13E-16	6.37E-16	uCi/ml	
11-10067-05	TRG	1300-562-1MA1 110713	07/13/11 09:52	10/17/2011	10/20/2011	2.74E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	0.00E+00	2.71E-16	2.71E-16	7.03E-16	uCi/ml	
11-10067-06	TRG	1300-562-1MA1 110720	07/20/11 10:00	10/17/2011	10/20/2011	2.71E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-2.44E-16	3.70E-16	3.71E-16	1.02E-15	uCi/ml	
11-10067-07	TRG	1300-562-1MA1 110727	07/27/11 10:00	10/17/2011	10/20/2011	2.56E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-1.04E-16	3.22E-16	3.23E-16	8.82E-16	uCi/ml	
11-10067-08	TRG	1300-562-1MA1 110803	08/03/11 09:20	10/17/2011	10/20/2011	2.74E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-1.48E-16	2.16E-16	2.17E-16	7.10E-16	uCi/ml	
11-10067-09	TRG	1300-562-1MA1 110810	08/10/11 10:05	10/17/2011	10/20/2011	2.81E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-2.75E-16	2.84E-16	2.85E-16	8.75E-16	uCi/ml	
11-10067-10	TRG	1300-562-1MA1 110817	08/17/11 09:40	10/17/2011	10/20/2011	2.68E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-4.84E-17	3.15E-16	3.15E-16	8.20E-16	uCi/ml	
11-10067-11	TRG	1300-562-1MA1 110824	08/24/11 08:37	10/17/2011	10/20/2011	2.89E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-2.78E-16	2.22E-16	2.24E-16	7.85E-16	uCi/ml	
11-10067-12	TRG	1300-562-1MA1 110831	08/31/11 10:12	10/17/2011	10/20/2011	2.51E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-5.18E-16	3.80E-16	3.84E-16	1.18E-15	uCi/ml	
11-10067-13	TRG	1300-562-1MA1 110907	09/07/11 09:41	10/17/2011	10/20/2011	2.76E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-9.94E-17	3.65E-16	3.65E-16	9.50E-16	uCi/ml	
11-10067-14	TRG	1300-562-1MA1 110914	09/14/11 10:20	10/17/2011	10/20/2011	2.75E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	-1.00E-16	3.11E-16	3.11E-16	8.50E-16	uCi/ml	
11-10067-15	TRG	11-358	09/27/11 06:30	10/17/2011	10/20/2011	1.46E+09	11-10067	Gross Alpha	LANL MLR-100 Modified	7.45E-16	1.70E-16	1.89E-16	1.50E-16	uCi/ml	
11-10067-16	TRG	11-366	10/04/11 11:20	10/17/2011	10/20/2011	5.87E+08	11-10067	Gross Alpha	LANL MLR-100 Modified	1.71E-15	5.70E-16	6.00E-16	4.96E-16	uCi/ml	
11-10067-01	LCS	KNOWN	10/17/11 00:00	10/17/2011	10/20/2011		11-10067	Gross Beta	LANL MLR-100 Modified	2.28E-04	6.84E-06			uCi/ml	
11-10067-01	LCS	SPIKE	10/17/11 00:00	10/17/2011	10/20/2011		11-10067	Gross Beta	LANL MLR-100 Modified	2.42E-04	5.83E-06	3.40E-05	8.29E-07	uCi/ml	
11-10067-02	MBL	BLANK	10/17/11 00:00	10/17/2011	10/20/2011		11-10067	Gross Beta	LANL MLR-100 Modified	1.92E-16	7.21E-16	7.22E-16	1.52E-15	uCi/ml	
11-10067-03	DUP	1300-562-1MA1 110706	07/06/11 10:10	10/17/2011	10/20/2011	2.88E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-8.77E-16	9.25E-16	9.33E-16	2.08E-15	uCi/ml	
11-10067-04	DO	1300-562-1MA1 110706	07/06/11 10:10	10/17/2011	10/20/2011	2.88E+08	11-10067	Gross Beta	LANL MLR-100 Modified	3.47E-16	9.01E-16	9.02E-16	1.89E-15	uCi/ml	
11-10067-05	TRG	1300-562-1MA1 110713	07/13/11 09:52	10/17/2011	10/20/2011	2.74E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-7.87E-16	1.04E-15	1.04E-15	2.30E-15	uCi/ml	
11-10067-06	TRG	1300-562-1MA1 110720	07/20/11 10:00	10/17/2011	10/20/2011	2.71E+08	11-10067	Gross Beta	LANL MLR-100 Modified	0.00E+00	8.97E-16	8.97E-16	1.93E-15	uCi/ml	
11-10067-07	TRG	1300-562-1MA1 110727	07/27/11 10:00	10/17/2011	10/20/2011	2.56E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-1.80E-16	9.45E-16	9.45E-16	2.05E-15	uCi/ml	
11-10067-08	TRG	1300-562-1MA1 110803	08/03/11 09:20	10/17/2011	10/20/2011	2.74E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-2.82E-16	9.79E-16	9.80E-16	2.13E-15	uCi/ml	
11-10067-09	TRG	1300-562-1MA1 110810	08/10/11 10:05	10/17/2011	10/20/2011	2.81E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-3.50E-16	8.87E-16	8.88E-16	1.95E-15	uCi/ml	
11-10067-10	TRG	1300-562-1MA1 110817	08/17/11 09:40	10/17/2011	10/20/2011	2.68E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-2.02E-16	8.85E-16	8.85E-16	1.93E-15	uCi/ml	
11-10067-11	TRG	1300-562-1MA1 110824	08/24/11 08:37	10/17/2011	10/20/2011	2.89E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-5.42E-17	8.72E-16	8.72E-16	1.88E-15	uCi/ml	
11-10067-12	TRG	1300-562-1MA1 110831	08/31/11 10:12	10/17/2011	10/20/2011	2.51E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-3.14E-17	1.28E-15	1.28E-15	2.73E-15	uCi/ml	
11-10067-13	TRG	1300-562-1MA1 110907	09/07/11 09:41	10/17/2011	10/20/2011	2.76E+08	11-10067	Gross Beta	LANL MLR-100 Modified	-2.89E-17	9.80E-16	9.80E-16	2.10E-15	uCi/ml	
11-10067-14	TRG	1300-562-1MA1 110914	09/14/11 10:20	10/17/2011	10/20/2011	2.75E+08	11-10067	Gross Beta	LANL MLR-100 Modified	6.85E-16	9.76E-16	9.80E-16	2.01E-15	uCi/ml	
11-10067-15	TRG	11-358	09/27/11 06:30	10/17/2011	10/20/2011	1.46E+09	11-10067	Gross Beta	LANL MLR-100 Modified	1.43E-14	5.53E-16	2.05E-15	3.09E-16	uCi/ml	
11-10067-16	TRG	11-366	10/04/11 11:20	10/17/2011	10/20/2011	5.87E+08	11-10067	Gross Beta	LANL MLR-100 Modified	3.46E-14	2.06E-15	5.21E-15	1.77E-15	uCi/ml	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<h1 style="margin: 0;">Eberline Analytical</h1> <h2 style="margin: 0;">Final Report of Analysis</h2>			Report To:							Work Order Details:					
			<b>Wes Terry</b> <b>Urenco USA</b> <b>275 Hwy 176</b> <b>Eunice, NM 88231</b>							SDG:	<b>11-10068</b>				
										Purchase Order:	LES-GSA-3080				
										Analysis Category:	ENVIRONMENTAL				
							Sample Matrix:		AF						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Sample Vol (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units	
11-10068-01	LCS	KNOWN	10/17/11 00:00	10/17/2011	10/20/2011		11-10068	Gross Alpha	LANL MLR-100 Modified	3.12E-04	1.34E-05			uCi/ml	
11-10068-01	LCS	SPIKE	10/17/11 00:00	10/17/2011	10/20/2011		11-10068	Gross Alpha	LANL MLR-100 Modified	3.12E-04	7.86E-06	3.49E-05	4.49E-07	uCi/ml	
11-10068-02	MBL	BLANK	10/17/11 00:00	10/17/2011	10/20/2011		11-10068	Gross Alpha	LANL MLR-100 Modified	-1.67E-16	2.31E-16	2.32E-16	7.08E-16	uCi/ml	
11-10068-03	DUP	1001-562-1MA2 110706	07/06/11 08:21	10/17/2011	10/20/2011	3.24E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-1.16E-16	2.27E-16	2.27E-16	6.53E-16	uCi/ml	
11-10068-04	DO	1001-562-1MA2 110706	07/06/11 08:21	10/17/2011	10/20/2011	3.24E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-2.00E-16	2.07E-16	2.08E-16	6.78E-16	uCi/ml	
11-10068-05	TRG	1001-562-1MA2 110713	07/13/11 08:52	10/17/2011	10/20/2011	3.02E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	1.32E-16	2.28E-16	2.29E-16	4.87E-16	uCi/ml	
11-10068-06	TRG	1001-562-1MA2 110720	07/20/11 13:19	10/17/2011	10/20/2011	3.03E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	8.79E-17	3.22E-16	3.22E-16	7.45E-16	uCi/ml	
11-10068-07	TRG	1001-562-1MA2 110727	07/27/11 09:44	10/17/2011	10/20/2011	2.84E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-9.52E-17	2.28E-16	2.29E-16	6.85E-16	uCi/ml	
11-10068-08	TRG	1001-562-1MA2 110803	08/03/11 14:37	10/17/2011	10/20/2011	3.16E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-2.85E-16	2.39E-16	2.41E-16	7.78E-16	uCi/ml	
11-10068-09	TRG	1001-562-1MA2 110810	08/10/11 08:55	10/17/2011	10/20/2011	2.80E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-1.39E-16	2.72E-16	2.73E-16	7.85E-16	uCi/ml	
11-10068-10	TRG	1001-562-1MA2 110817	08/17/11 10:09	10/17/2011	10/20/2011	2.79E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	1.43E-16	2.47E-16	2.48E-16	5.27E-16	uCi/ml	
11-10068-11	TRG	1001-562-1MA2 110824	08/24/11 11:45	10/17/2011	10/20/2011	2.80E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-9.46E-17	2.27E-16	2.27E-16	6.81E-16	uCi/ml	
11-10068-12	TRG	1001-562-1MA2 110831	08/31/11 14:45	10/17/2011	10/20/2011	3.04E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-8.81E-17	2.11E-16	2.12E-16	6.34E-16	uCi/ml	
11-10068-13	TRG	1001-562-1MA2 110907	09/07/11 08:37	10/17/2011	10/20/2011	3.18E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-2.08E-16	3.15E-16	3.16E-16	8.73E-16	uCi/ml	
11-10068-14	TRG	1001-562-1MA2 110914	09/14/11 14:14	10/17/2011	10/20/2011	3.30E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-2.40E-16	2.93E-16	2.94E-16	8.40E-16	uCi/ml	
11-10068-15	TRG	1001-562-1MA2 110921	09/21/11 11:27	10/17/2011	10/20/2011	2.90E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-2.27E-16	2.35E-16	2.36E-16	7.68E-16	uCi/ml	
11-10068-16	TRG	1001-562-1MA2 110928	09/28/11 15:36	10/17/2011	10/20/2011	3.33E+08	11-10068	Gross Alpha	LANL MLR-100 Modified	-6.27E-16	3.43E-16	3.50E-16	1.06E-15	uCi/ml	
11-10068-01	LCS	KNOWN	10/17/11 00:00	10/17/2011	10/20/2011		11-10068	Gross Beta	LANL MLR-100 Modified	2.28E-04	6.84E-06			uCi/ml	
11-10068-01	LCS	SPIKE	10/17/11 00:00	10/17/2011	10/20/2011		11-10068	Gross Beta	LANL MLR-100 Modified	2.41E-04	5.80E-06	3.38E-05	8.44E-07	uCi/ml	
11-10068-02	MBL	BLANK	10/17/11 00:00	10/17/2011	10/20/2011		11-10068	Gross Beta	LANL MLR-100 Modified	-7.63E-17	7.28E-16	7.28E-16	1.58E-15	uCi/ml	
11-10068-03	DUP	1001-562-1MA2 110706	07/06/11 08:21	10/17/2011	10/20/2011	3.24E+08	11-10068	Gross Beta	LANL MLR-100 Modified	2.55E-16	6.78E-16	6.79E-16	1.43E-15	uCi/ml	
11-10068-04	DO	1001-562-1MA2 110706	07/06/11 08:21	10/17/2011	10/20/2011	3.24E+08	11-10068	Gross Beta	LANL MLR-100 Modified	1.18E-15	7.21E-16	7.39E-16	1.39E-15	uCi/ml	
11-10068-05	TRG	1001-562-1MA2 110713	07/13/11 08:52	10/17/2011	10/20/2011	3.02E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-1.17E-15	8.56E-16	8.71E-16	1.97E-15	uCi/ml	
11-10068-06	TRG	1001-562-1MA2 110720	07/20/11 13:19	10/17/2011	10/20/2011	3.03E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-3.80E-16	7.84E-16	7.86E-16	1.74E-15	uCi/ml	
11-10068-07	TRG	1001-562-1MA2 110727	07/27/11 09:44	10/17/2011	10/20/2011	2.84E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-8.43E-16	9.12E-16	9.20E-16	2.05E-15	uCi/ml	
11-10068-08	TRG	1001-562-1MA2 110803	08/03/11 14:37	10/17/2011	10/20/2011	3.16E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-8.85E-16	7.55E-16	7.65E-16	1.73E-15	uCi/ml	
11-10068-09	TRG	1001-562-1MA2 110810	08/10/11 08:55	10/17/2011	10/20/2011	2.80E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-4.42E-16	8.31E-16	8.33E-16	1.85E-15	uCi/ml	
11-10068-10	TRG	1001-562-1MA2 110817	08/17/11 10:09	10/17/2011	10/20/2011	2.79E+08	11-10068	Gross Beta	LANL MLR-100 Modified	4.47E-16	9.55E-16	9.56E-16	1.99E-15	uCi/ml	
11-10068-11	TRG	1001-562-1MA2 110824	08/24/11 11:45	10/17/2011	10/20/2011	2.80E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-1.20E-15	9.34E-16	9.49E-16	2.14E-15	uCi/ml	
11-10068-12	TRG	1001-562-1MA2 110831	08/31/11 14:45	10/17/2011	10/20/2011	3.04E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-1.52E-15	8.88E-16	9.13E-16	2.07E-15	uCi/ml	
11-10068-13	TRG	1001-562-1MA2 110907	09/07/11 08:37	10/17/2011	10/20/2011	3.18E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-1.22E-16	7.57E-16	7.58E-16	1.65E-15	uCi/ml	
11-10068-14	TRG	1001-562-1MA2 110914	09/14/11 14:14	10/17/2011	10/20/2011	3.30E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-1.67E-16	8.15E-16	8.16E-16	1.77E-15	uCi/ml	
11-10068-15	TRG	1001-562-1MA2 110921	09/21/11 11:27	10/17/2011	10/20/2011	2.90E+08	11-10068	Gross Beta	LANL MLR-100 Modified	-1.19E-15	9.61E-16	9.76E-16	2.20E-15	uCi/ml	
11-10068-16	TRG	1001-562-1MA2 110928	09/28/11 15:36	10/17/2011	10/20/2011	3.33E+08	11-10068	Gross Beta	LANL MLR-100 Modified	3.28E-16	7.66E-16	7.68E-16	1.61E-15	uCi/ml	

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original

<b>Eberline Analytical</b> <b>Final Report of Analysis</b>			Report To:						Work Order Details:					
			Wes Terry						SDG:		11-10126			
			URENCO USA						Purchase Order:		LES-GSA-3080			
			275 Hwy 176						Analysis Category:		ENVIRONMENTAL			
Eunice, NM 88231						Sample Matrix:		AF						
Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Volume (ml)	Batch ID	Analyte	Method	Result	CU	CSU	MDA	Report Units
11-10126-01	LCS	KNOWN	10/27/11 00:00	10/27/2011	11/3/2011		11-10126	Uranium-234	EML U-02 Modified	8.11E-06	2.92E-07			uCi/ml
11-10126-01	LCS	SPIKE	10/27/11 00:00	10/27/2011	11/3/2011		11-10126	Uranium-234	EML U-02 Modified	8.40E-06	1.34E-06	1.47E-06	1.19E-07	uCi/ml
11-10126-02	MBL	BLANK	10/27/11 00:00	10/27/2011	11/3/2011		11-10126	Uranium-234	EML U-02 Modified	2.04E-18	1.32E-17	1.32E-17	3.60E-17	uCi/ml
11-10126-03	DUP	1001-562-1MA1 QTR3 2011	09/28/11 15:40	10/27/2011	11/3/2011	1.96E+09	11-10126	Uranium-234	EML U-02 Modified	2.33E-17	4.12E-17	4.12E-17	7.42E-17	uCi/ml
11-10126-04	DO	1001-562-1MA1 QTR3 2011	09/28/11 15:40	10/27/2011	11/3/2011	1.96E+09	11-10126	Uranium-234	EML U-02 Modified	2.34E-17	4.46E-17	4.47E-17	8.26E-17	uCi/ml
11-10126-05	TRG	1300-562-1MA1 QTR3 2011	10/04/11 11:20	10/27/2011	11/3/2011	5.05E+09	11-10126	Uranium-234	EML U-02 Modified	6.91E-17	3.79E-17	3.82E-17	2.42E-17	uCi/ml
11-10126-06	TRG	1001-562-1MA2 QTR3 2011	09/28/11 15:36	10/27/2011	11/3/2011	3.94E+09	11-10126	Uranium-234	EML U-02 Modified	2.19E-17	2.37E-17	2.38E-17	2.86E-17	uCi/ml
11-10126-01	LCS	SPIKE	10/27/11 00:00	10/27/2011	11/3/2011		11-10126	Uranium-235	EML U-02 Modified	4.23E-07	2.11E-07	2.13E-07	1.38E-07	uCi/ml
11-10126-02	MBL	BLANK	10/27/11 00:00	10/27/2011	11/3/2011		11-10126	Uranium-235	EML U-02 Modified	1.44E-17	2.20E-17	2.21E-17	3.29E-17	uCi/ml
11-10126-03	DUP	1001-562-1MA1 QTR3 2011	09/28/11 15:40	10/27/2011	11/3/2011	1.96E+09	11-10126	Uranium-235	EML U-02 Modified	2.66E-17	4.07E-17	4.07E-17	6.06E-17	uCi/ml
11-10126-04	DO	1001-562-1MA1 QTR3 2011	09/28/11 15:40	10/27/2011	11/3/2011	1.96E+09	11-10126	Uranium-235	EML U-02 Modified	2.56E-17	5.54E-17	5.55E-17	1.10E-16	uCi/ml
11-10126-05	TRG	1300-562-1MA1 QTR3 2011	10/04/11 11:20	10/27/2011	11/3/2011	5.05E+09	11-10126	Uranium-235	EML U-02 Modified	4.12E-18	1.26E-17	1.26E-17	2.99E-17	uCi/ml
11-10126-06	TRG	1001-562-1MA2 QTR3 2011	09/28/11 15:36	10/27/2011	11/3/2011	3.94E+09	11-10126	Uranium-235	EML U-02 Modified	1.48E-17	2.51E-17	2.51E-17	4.42E-17	uCi/ml
11-10126-01	LCS	KNOWN	10/27/11 00:00	10/27/2011	11/3/2011		11-10126	Uranium-238	EML U-02 Modified	7.90E-06	2.84E-07			uCi/ml
11-10126-01	LCS	SPIKE	10/27/11 00:00	10/27/2011	11/3/2011		11-10126	Uranium-238	EML U-02 Modified	7.19E-06	1.18E-06	1.29E-06	9.43E-08	uCi/ml
11-10126-02	MBL	BLANK	10/27/11 00:00	10/27/2011	11/3/2011		11-10126	Uranium-238	EML U-02 Modified	9.47E-18	1.80E-17	1.80E-17	3.34E-17	uCi/ml
11-10126-03	DUP	1001-562-1MA1 QTR3 2011	09/28/11 15:40	10/27/2011	11/3/2011	1.96E+09	11-10126	Uranium-238	EML U-02 Modified	3.32E-17	4.01E-17	4.02E-17	4.89E-17	uCi/ml
11-10126-04	DO	1001-562-1MA1 QTR3 2011	09/28/11 15:40	10/27/2011	11/3/2011	1.96E+09	11-10126	Uranium-238	EML U-02 Modified	1.03E-17	3.16E-17	3.16E-17	7.49E-17	uCi/ml
11-10126-05	TRG	1300-562-1MA1 QTR3 2011	10/04/11 11:20	10/27/2011	11/3/2011	5.05E+09	11-10126	Uranium-238	EML U-02 Modified	1.03E-16	4.67E-17	4.72E-17	2.64E-17	uCi/ml
11-10126-06	TRG	1001-562-1MA2 QTR3 2011	09/28/11 15:36	10/27/2011	11/3/2011	3.94E+09	11-10126	Uranium-238	EML U-02 Modified	-1.01E-18	1.18E-17	1.18E-17	2.49E-17	uCi/ml

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original



**URENCO  
URENCO  
SDG: 282147**

**Receipt Narrative  
for  
URENCO  
SDG: 282147**

**July 25, 2011**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary**

**Sample receipt** The sample arrived at GEL Laboratories LLC, Charleston, South Carolina on July 15, 2011 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification** The laboratory received the following sample:

<u>Laboratory ID</u>	<u>Client ID</u>
282147001	LS1-Wastewater-071411-01

**Case Narrative**

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

**Data Package**

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry and Radiochemistry.



Ann Skradski  
Project Manager

**Radiochemistry Case Narrative  
URENCO (UREN)  
SDG 282147**

**Method/Analysis Information**

**Product:** Alphaspec U, Liquid  
**Analytical Method:** DOE EML HASL-300, U-02-RC Modified  
**Analytical Batch Number:** 1126952

<b>Sample ID</b>	<b>Client ID</b>
282147001	LS1-Wastewater-071411-01
1202452275	Method Blank (MB)
1202452276	282147001(LS1-Wastewater-071411-01) Sample Duplicate (DUP)
1202452277	282147001(LS1-Wastewater-071411-01) Matrix Spike (MS)
1202452278	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 20.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 282147001 (LS1-Wastewater-071411-01).

**QC Information**

All of the QC samples meet the required acceptance limits with the following exceptions: The U-238 blank activity is greater than the MDC but is less than five percent of the lowest activity in the batch. The sample and

the duplicate, 1202452276 (LS1-Wastewater-071411-01) and 282147001 (LS1-Wastewater-071411-01), did not meet the relative percent difference requirement for U-233/234; however, they do meet the relative error ratio requirement with value of 1.26.

**Technical Information:**

**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

Sample 282147001 (LS1-Wastewater-071411-01) was re-prepped due to high blank activity. The re-analysis is being reported.

**Miscellaneous Information:**

**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Manual Integration**

No manual integrations were performed on data in this batch.

**Additional Comments**

The matrix spike, 1202452277 (LS1-Wastewater-071411-01), aliquot was reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

UREN001 URENCO

Client SDG: 282147 GEL Work Order: 282147

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

**Signature:**



**Name: Kate Gellatly**

**Date: 01 AUG 2011**

**Title: Analyst I**

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Urenco USA  
 Address : Andrews 275 Hwy 176  
 Eunice, New Mexico 88231  
 Contact: Mr. Matthew Graves  
 Project: URENCO

Report Date: August 1, 2011

Client Sample ID: LS1-Wastewater-071411-01  
 Sample ID: 282147001  
 Matrix: Waste Water  
 Collect Date: 14-JUL-11  
 Receive Date: 15-JUL-11  
 Collector: Client

Project: UREN00111  
 Client ID: UREN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
<b>Rad Alpha Spec Analysis</b>													
<i>Alphaspec U, Liquid "As Received"</i>													
Uranium-233/234		6.22E-10	+/-1.13E-10	4.94E-11	+/-1.42E-10	5.00E-11	uCi/mL		JXH2	07/30/11	1522	1126952	1
Uranium-235/236		1.91E-11	+/-2.16E-11	1.91E-11	+/-2.18E-11	5.00E-11	uCi/mL						
Uranium-238		3.61E-10	+/-8.45E-11	1.55E-11	+/-9.83E-11	5.00E-11	uCi/mL						

**The following Analytical Methods were performed**

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Liquid "As Received"	1126952	86.3	(15%-125%)

Notes:

## Generic Data Report 12-01009

InternalID	InternalWorkOrder	Fraction	AnalysisCode	Isotope	Run	ClientName	SampleType	ClientID	ReportUnits	Result	Uncertainty	MDA	LSCKnown	LCSPercentR
12-01009-01	12-01009	01	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	LCS	LCS	uCi/ml	2.80E-04	7.60E-06	5.34E-07	3.13E-04	89.68
12-01009-02	12-01009	02	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	MBL	BLANK	uCi/ml	-1.70E-16	1.67E-16	6.13E-16		
12-01009-03	12-01009	03	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	DUP	1001-562-1MA1 111006	uCi/ml	0.00E+00	1.50E-16	4.23E-16		
12-01009-04	12-01009	04	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	DO	1001-562-1MA1 111006	uCi/ml	-1.19E-16	2.33E-16	6.71E-16		
12-01009-05	12-01009	05	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111012	uCi/ml	2.04E-16	2.83E-16	5.65E-16		
12-01009-06	12-01009	06	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111019	uCi/ml	-4.56E-17	2.96E-16	7.73E-16		
12-01009-07	12-01009	07	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111026	uCi/ml	-4.63E-17	1.57E-16	5.12E-16		
12-01009-08	12-01009	08	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111102	uCi/ml	-5.61E-16	3.69E-16	1.11E-15		
12-01009-09	12-01009	09	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111109	uCi/ml	8.53E-17	2.64E-16	6.14E-16		
12-01009-10	12-01009	10	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111116	uCi/ml	-3.52E-16	3.45E-16	1.00E-15		
12-01009-11	12-01009	11	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111123	uCi/ml	-4.35E-17	3.72E-16	9.14E-16		
12-01009-12	12-01009	12	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111130	uCi/ml	1.85E-16	1.82E-16	1.39E-16		
12-01009-13	12-01009	13	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111207	uCi/ml	-4.57E-16	4.20E-16	1.18E-15		
12-01009-14	12-01009	14	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111214	uCi/ml	-4.27E-17	2.22E-16	6.15E-16		
12-01009-15	12-01009	15	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111221	uCi/ml	-3.61E-16	3.54E-16	1.03E-15		
12-01009-16	12-01009	16	GaGbt_ThSr	GROSS ALPHA	1	URENCO USA	TRG	1001-562-1MA1 111228	uCi/ml	-4.76E-16	3.50E-16	1.05E-15		
12-01009-01	12-01009	01	GaGbt_ThSr	GROSS BETA	1	URENCO USA	LCS	LCS	uCi/ml	2.36E-04	5.87E-06	8.12E-07	2.27E-04	103.71
12-01009-02	12-01009	02	GaGbt_ThSr	GROSS BETA	1	URENCO USA	MBL	BLANK	uCi/ml	-3.11E-16	7.94E-16	1.75E-15		
12-01009-03	12-01009	03	GaGbt_ThSr	GROSS BETA	1	URENCO USA	DUP	1001-562-1MA1 111006	uCi/ml	1.61E-16	6.86E-16	1.46E-15		
12-01009-04	12-01009	04	GaGbt_ThSr	GROSS BETA	1	URENCO USA	DO	1001-562-1MA1 111006	uCi/ml	0.00E+00	7.95E-16	1.70E-15		
12-01009-05	12-01009	05	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111012	uCi/ml	1.51E-15	8.97E-16	1.72E-15		
12-01009-06	12-01009	06	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111019	uCi/ml	-5.26E-16	8.81E-16	1.95E-15		
12-01009-07	12-01009	07	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111026	uCi/ml	2.65E-16	8.89E-16	1.88E-15		
12-01009-08	12-01009	08	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111102	uCi/ml	-3.30E-16	8.31E-16	1.82E-15		
12-01009-09	12-01009	09	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111109	uCi/ml	9.91E-16	7.44E-16	1.47E-15		
12-01009-10	12-01009	10	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111116	uCi/ml	7.73E-17	7.87E-16	1.68E-15		
12-01009-11	12-01009	11	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111123	uCi/ml	-5.28E-16	1.08E-15	2.36E-15		
12-01009-12	12-01009	12	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111130	uCi/ml	5.39E-17	9.42E-16	2.01E-15		
12-01009-13	12-01009	13	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111207	uCi/ml	-5.46E-16	9.44E-16	2.08E-15		
12-01009-14	12-01009	14	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111214	uCi/ml	-1.59E-15	8.02E-16	1.91E-15		
12-01009-15	12-01009	15	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111221	uCi/ml	-1.26E-15	8.83E-16	2.04E-15		
12-01009-16	12-01009	16	GaGbt_ThSr	GROSS BETA	1	URENCO USA	TRG	1001-562-1MA1 111228	uCi/ml	-4.55E-16	9.17E-16	2.01E-15		

## Generic Data Report 12-01009

LCSFlag	RPDFlag	MDAFLag	BlankFlag	SampleDate	AliquotNetEquiv	RadioPercentRec	GravPercentRec	MeanPercentRec	SAF	Sept0Date	Sept1Date	CountDate	Halflife_days	Detector	Carrier
OK		INV		1/4/2012	1	0	0	0	1			1/14/2012	0	LB4110A	B3
		OK	OK	1/4/2012	297000000	0	0	0	1			1/14/2012	0	LB4110R	A2
		OK		10/6/2011	326000000	0	0	0	1			1/14/2012	0	LB4110R	A3
		OK		10/6/2011	326000000	0	0	0	1			1/15/2012	0	LB4110A	D2
		OK		10/12/2011	260000000	0	0	0	1			1/14/2012	0	LB4110R	A4
		OK		10/19/2011	292000000	0	0	0	1			1/14/2012	0	LB4110R	B1
		OK		10/26/2011	292000000	0	0	0	1			1/14/2012	0	LB4110R	B2
		OK		11/2/2011	298000000	0	0	0	1			1/14/2012	0	LB4110R	B3
		OK		11/9/2011	304000000	0	0	0	1			1/14/2012	0	LB4110R	B4
		OK		11/16/2011	304000000	0	0	0	1			1/14/2012	0	LB4110R	C1
		OK		11/23/2011	299000000	0	0	0	1			1/14/2012	0	LB4110R	C2
		OK		11/30/2011	296000000	0	0	0	1			1/14/2012	0	LB4110R	C3
		OK		12/7/2011	302000000	0	0	0	1			1/14/2012	0	LB4110R	C4
		OK		12/14/2011	303000000	0	0	0	1			1/14/2012	0	LB4110R	D2
		OK		12/21/2011	285000000	0	0	0	1			1/14/2012	0	LB4110R	D4
		OK		12/28/2011	298000000	0	0	0	1			1/14/2012	0	LB4110A	D2
OK		INV		1/4/2012	1	0	0	0	1			1/14/2012	0	LB4110A	B3
		OK	OK	1/4/2012	297000000	0	0	0	1			1/14/2012	0	LB4110R	A2
		OK		10/6/2011	326000000	0	0	0	1			1/14/2012	0	LB4110R	A3
		OK		10/6/2011	326000000	0	0	0	1			1/15/2012	0	LB4110A	D2
		OK		10/12/2011	260000000	0	0	0	1			1/14/2012	0	LB4110R	A4
		OK		10/19/2011	292000000	0	0	0	1			1/14/2012	0	LB4110R	B1
		OK		10/26/2011	292000000	0	0	0	1			1/14/2012	0	LB4110R	B2
		OK		11/2/2011	298000000	0	0	0	1			1/14/2012	0	LB4110R	B3
		OK		11/9/2011	304000000	0	0	0	1			1/14/2012	0	LB4110R	B4
		OK		11/16/2011	304000000	0	0	0	1			1/14/2012	0	LB4110R	C1
		OK		11/23/2011	299000000	0	0	0	1			1/14/2012	0	LB4110R	C2
		OK		11/30/2011	296000000	0	0	0	1			1/14/2012	0	LB4110R	C3
		OK		12/7/2011	302000000	0	0	0	1			1/14/2012	0	LB4110R	C4
		OK		12/14/2011	303000000	0	0	0	1			1/14/2012	0	LB4110R	D2
		OK		12/21/2011	285000000	0	0	0	1			1/14/2012	0	LB4110R	D4
		OK		12/28/2011	298000000	0	0	0	1			1/14/2012	0	LB4110A	D2



## Generic Data Report 12-01009

CountTime	Counts	BkgCPM	Eff	UserName	ModDate	RPD_Value	Matrix	DateReceived	GrossWetWt	PercentLiq	PercentSolid	Date_t_0	UserName_t_0	DilutionRatio	SolutionNo	PrepDate
30	5241	0.1	0.2804	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	0	0.033333333	0.2968	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	2	0.016666667	0.3007	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	3	0.05	0.2912	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	6	0.016666667	0.2825	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	5	0.05	0.2819	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	1	0.016666667	0.2778	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	3	0.133333333	0.2919	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	6	0.033333333	0.2895	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	4	0.1	0.2806	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	9	0.083333333	0.2886	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	4	0	0.2736	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	6	0.133333333	0.2722	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	3	0.033333333	0.2899	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	4	0.1	0.2915	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	3	0.116666667	0.2912	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
30	8765	1.033333333	0.4703	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	116	1.066666667	0.4871	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	119	0.933333333	0.4999	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	154	1.283333333	0.4979	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	140	0.75	0.4786	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	136	1.3	0.4886	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	152	1.183333333	0.486	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	133	1.216666667	0.4965	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	131	0.766666667	0.4858	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	123	1	0.4795	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	210	1.916666667	0.4758	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	160	1.316666667	0.4705	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	161	1.516666667	0.4781	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	104	1.4	0.4993	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	117	1.366666667	0.49	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	162	1.5	0.4979	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012

## Generic Data Report 12-01009

AliquotDate	Identified	CoordinateY	XYUnits	CoordinateZ	ZUnits	GravFilterNet	InstCode	Method	TPUFactor	CSU	LCSKnownError
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.15616E-05	1.34484E-05
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	1.67962E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	1.50107E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.32867E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.84197E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.96484E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	1.57178E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.73735E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.64527E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.47137E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.71678E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	1.8282E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	4.22748E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.21654E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.56434E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.53415E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	3.30979E-05	6.81862E-06
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.9557E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	6.86524E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.95495E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.20589E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.842E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.89699E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.31843E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.56455E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.8687E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	1.08726E-15	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.42101E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.46731E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.31526E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.00238E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.19172E-16	

## Generic Data Report 12-01010

InternalID	InternalWorkOrder	Fraction	AnalysisCode	Isotope	Run	ClientName	SampleType	ClientID	ReportUnits	Result	Uncertainty	MDA	LSCKnown	LCSPercentR
12-01010-01	12-01010	01	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	LCS	LCS	uCi/ml	2.99E-04	7.83E-06	5.61E-07	3.15E-04	95.07
12-01010-02	12-01010	02	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	MBL	BLANK	uCi/ml	-1.48E-16	2.06E-16	6.29E-16		
12-01010-03	12-01010	03	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	DUP	13005621MA1 111019	uCi/ml	9.33E-17	3.42E-16	7.91E-16		
12-01010-04	12-01010	04	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	DO	13005621MA1 111019	uCi/ml	4.67E-17	3.30E-16	7.91E-16		
12-01010-05	12-01010	05	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	AS 11-385	uCi/ml	2.27E-15	3.44E-16	2.39E-16		
12-01010-06	12-01010	06	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111026	uCi/ml	-4.60E-17	2.38E-16	6.62E-16		
12-01010-07	12-01010	07	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111102	uCi/ml	1.90E-16	2.63E-16	5.24E-16		
12-01010-08	12-01010	08	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111109	uCi/ml	9.72E-17	3.01E-16	7.00E-16		
12-01010-09	12-01010	09	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111116	uCi/ml	2.62E-16	2.09E-16	1.31E-16		
12-01010-10	12-01010	10	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111123	uCi/ml	0.00E+00	3.18E-16	7.94E-16		
12-01010-11	12-01010	11	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111130	uCi/ml	1.51E-16	3.28E-16	7.27E-16		
12-01010-12	12-01010	12	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111207	uCi/ml	3.17E-16	2.35E-16	1.36E-16		
12-01010-13	12-01010	13	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111214	uCi/ml	2.45E-16	2.88E-16	5.42E-16		
12-01010-14	12-01010	14	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111221	uCi/ml	4.10E-16	2.68E-16	1.37E-16		
12-01010-15	12-01010	15	GaGbT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	13005621MA1 111229	uCi/ml	-5.06E-17	2.62E-16	7.28E-16		
12-01010-01	12-01010	01	GaGbT_ThSr	GROSS BETA	1	URENCO USA	LCS	LCS	uCi/ml	2.54E-04	6.01E-06	9.27E-07	2.29E-04	110.95
12-01010-02	12-01010	02	GaGbT_ThSr	GROSS BETA	1	URENCO USA	MBL	BLANK	uCi/ml	-4.29E-16	6.58E-16	1.48E-15		
12-01010-03	12-01010	03	GaGbT_ThSr	GROSS BETA	1	URENCO USA	DUP	13005621MA1 111019	uCi/ml	1.69E-15	8.38E-16	1.57E-15		
12-01010-04	12-01010	04	GaGbT_ThSr	GROSS BETA	1	URENCO USA	DO	13005621MA1 111019	uCi/ml	7.77E-16	7.77E-16	1.57E-15		
12-01010-05	12-01010	05	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	AS 11-385	uCi/ml	1.26E-14	6.50E-16	4.75E-16		
12-01010-06	12-01010	06	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111026	uCi/ml	2.17E-16	8.38E-16	1.78E-15		
12-01010-07	12-01010	07	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111102	uCi/ml	-2.19E-16	8.57E-16	1.87E-15		
12-01010-08	12-01010	08	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111109	uCi/ml	-5.56E-17	8.40E-16	1.82E-15		
12-01010-09	12-01010	09	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111116	uCi/ml	-4.87E-16	8.36E-16	1.85E-15		
12-01010-10	12-01010	10	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111123	uCi/ml	7.81E-16	8.68E-16	1.77E-15		
12-01010-11	12-01010	11	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111130	uCi/ml	-2.95E-17	9.03E-16	1.95E-15		
12-01010-12	12-01010	12	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111207	uCi/ml	-5.22E-16	1.13E-15	2.45E-15		
12-01010-13	12-01010	13	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111214	uCi/ml	-2.85E-17	9.72E-16	2.09E-15		
12-01010-14	12-01010	14	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111221	uCi/ml	1.81E-16	9.30E-16	1.97E-15		
12-01010-15	12-01010	15	GaGbT_ThSr	GROSS BETA	1	URENCO USA	TRG	13005621MA1 111229	uCi/ml	-4.99E-16	9.05E-16	2.01E-15		

## Generic Data Report 12-01010

LCSFlag	RPDFlag	MDAFLag	BlankFlag	SampleDate	AliquotNetEquiv	RadioPercentRec	GravPercentRec	MeanPercentRec	SAF	Sept0Date	Sept1Date	CountDate	HalfLife_days	Detector	Carrier
OK		INV		1/4/2012	1	0	0	0	1			1/15/2012	0	LB4110A	B1
		OK	OK	1/4/2012	341000000	0	0	0	1			1/15/2012	0	LB4110R	A2
	NA	OK		10/19/2011	276000000	0	0	0	1			1/15/2012	0	LB4110R	D4
		OK		10/19/2011	276000000	0	0	0	1			1/15/2012	0	LB4110R	D4
		OK		10/16/2011	1000000000	0	0	0	1			1/15/2012	0	LB4110R	A3
		OK		10/26/2011	289000000	0	0	0	1			1/15/2012	0	LB4110R	A4
		OK		11/2/2011	281000000	0	0	0	1			1/15/2012	0	LB4110R	B1
		OK		11/9/2011	278000000	0	0	0	1			1/15/2012	0	LB4110R	B2
		OK		11/16/2011	295000000	0	0	0	1			1/15/2012	0	LB4110R	B3
		OK		11/23/2011	277000000	0	0	0	1			1/15/2012	0	LB4110R	B4
		OK		11/30/2011	265000000	0	0	0	1			1/15/2012	0	LB4110R	C1
		OK		12/7/2011	287000000	0	0	0	1			1/15/2012	0	LB4110R	C2
		OK		12/14/2011	280000000	0	0	0	1			1/15/2012	0	LB4110R	C3
		OK		12/21/2011	303000000	0	0	0	1			1/15/2012	0	LB4110R	C4
		OK		12/29/2011	256000000	0	0	0	1			1/15/2012	0	LB4110R	D2
OK		INV		1/4/2012	1	0	0	0	1			1/15/2012	0	LB4110A	B1
		OK	OK	1/4/2012	341000000	0	0	0	1			1/15/2012	0	LB4110R	A2
	NA	OK		10/19/2011	276000000	0	0	0	1			1/15/2012	0	LB4110R	D4
		OK		10/19/2011	276000000	0	0	0	1			1/15/2012	0	LB4110R	D4
		OK		10/16/2011	1000000000	0	0	0	1			1/15/2012	0	LB4110R	A3
		OK		10/26/2011	289000000	0	0	0	1			1/15/2012	0	LB4110R	A4
		OK		11/2/2011	281000000	0	0	0	1			1/15/2012	0	LB4110R	B1
		OK		11/9/2011	278000000	0	0	0	1			1/15/2012	0	LB4110R	B2
		OK		11/16/2011	295000000	0	0	0	1			1/15/2012	0	LB4110R	B3
		OK		11/23/2011	277000000	0	0	0	1			1/15/2012	0	LB4110R	B4
		OK		11/30/2011	265000000	0	0	0	1			1/15/2012	0	LB4110R	C1
		OK		12/7/2011	287000000	0	0	0	1			1/15/2012	0	LB4110R	C2
		OK		12/14/2011	280000000	0	0	0	1			1/15/2012	0	LB4110R	C3
		OK		12/21/2011	303000000	0	0	0	1			1/15/2012	0	LB4110R	C4
		OK		12/29/2011	256000000	0	0	0	1			1/15/2012	0	LB4110R	D2

## Generic Data Report 12-01010

CountTime	Counts	BkgCPM	Eff	UserName	ModDate	RPD_Value	Matrix	DateReceived	GrossWetWt	PercentLiq	PercentSolid	Date_t_0	UserName_t_0	DilutionRatio	SolutionNo	PrepDate
30	5624	0.116666667	0.2821	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	2	0.05	0.2968	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	8	0.05	0.2915	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	7	0.05	0.2915	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	190	0.066666667	0.3007	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	3	0.033333333	0.2825	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	6	0.016666667	0.2819	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	6	0.033333333	0.2778	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	6	0	0.2919	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	6	0.05	0.2895	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	7	0.033333333	0.2806	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	7	0	0.2886	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	7	0.016666667	0.2736	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	9	0	0.2722	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	3	0.033333333	0.2899	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
30	9633	1.466666667	0.4817	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	101	1	0.4871	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	149	0.733333333	0.49	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	116	0.733333333	0.49	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	1840	0.933333333	0.4999	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	128	1	0.4786	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	124	1.1	0.4886	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	118	1	0.486	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	129	1.233333333	0.4965	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	140	0.933333333	0.4858	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	121	1.016666667	0.4795	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	209	1.9	0.4758	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	151	1.266666667	0.4705	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	171	1.366666667	0.4781	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	115	1.1	0.4993	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012

## Generic Data Report 12-01010

AliquotDate	Identified	CoordinateY	XYUnits	CoordinateZ	ZUnits	GravFilterNet	InstCode	Method	TPUFactor	CSU	LCSKnownError
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.35959E-05	1.35303E-05
1/9/2012						0.0001	2	LANL MLR-100 Modified	0.109212751	2.06249E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.42319E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.2976E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	4.24384E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.38479E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.63518E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.01449E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.11227E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.17822E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.28576E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.37554E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.89357E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.71329E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.62349E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	3.55715E-05	6.86015E-06
1/9/2012						0.0001	2	LANL MLR-100 Modified	0.138183631	6.61152E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.69577E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.84406E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	1.85997E-15	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.38215E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.5793E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.40132E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.38731E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.74615E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.02599E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	1.12862E-15	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.72141E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.2991E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.07252E-16	

## Generic Data Report 12-01011

InternalID	InternalWorkOrder	Fraction	AnalysisCode	Isotope	Run	ClientName	SampleType	ClientID	ReportUnits	Result	Uncertainty	MDA	LSCKnown	LCSPercentR
12-01011-01	12-01011	01	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	LCS	LCS	uCi/ml	2.91E-04	7.71E-06	5.61E-07	3.13E-04	92.86
12-01011-02	12-01011	02	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	MBL	BLANK	uCi/ml	-8.43E-17	2.61E-16	7.15E-16		
12-01011-03	12-01011	03	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	DUP	10015621MA2 111006	uCi/ml	0.00E+00	3.08E-16	7.52E-16		
12-01011-04	12-01011	04	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	DO	10015621MA2 111006	uCi/ml	-1.18E-16	2.78E-16	7.52E-16		
12-01011-05	12-01011	05	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111012	uCi/ml	4.51E-17	3.64E-16	8.62E-16		
12-01011-06	12-01011	06	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111019	uCi/ml	-4.26E-17	2.21E-16	6.13E-16		
12-01011-07	12-01011	07	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111026	uCi/ml	1.69E-16	2.34E-16	4.67E-16		
12-01011-08	12-01011	08	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111102	uCi/ml	1.37E-16	2.98E-16	6.59E-16		
12-01011-09	12-01011	09	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111109	uCi/ml	2.21E-16	1.94E-16	1.33E-16		
12-01011-10	12-01011	10	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111116	uCi/ml	-4.24E-17	2.75E-16	7.19E-16		
12-01011-11	12-01011	11	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111123	uCi/ml	4.50E-17	2.65E-16	6.48E-16		
12-01011-12	12-01011	12	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111130	uCi/ml	3.22E-16	2.23E-16	1.21E-16		
12-01011-13	12-01011	13	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111207	uCi/ml	4.65E-17	2.04E-16	5.14E-16		
12-01011-14	12-01011	14	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111214	uCi/ml	3.03E-16	2.24E-16	1.30E-16		
12-01011-15	12-01011	15	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111221	uCi/ml	-4.30E-17	2.79E-16	7.29E-16		
12-01011-16	12-01011	16	GaGdT_ThSr	GROSS ALPHA	1	URENCO USA	TRG	10015621MA2 111228	uCi/ml	-2.64E-16	2.22E-16	7.21E-16		
12-01011-01	12-01011	01	GaGdT_ThSr	GROSS BETA	1	URENCO USA	LCS	LCS	uCi/ml	2.49E-04	5.95E-06	9.27E-07	2.27E-04	109.51
12-01011-02	12-01011	02	GaGdT_ThSr	GROSS BETA	1	URENCO USA	MBL	BLANK	uCi/ml	-1.28E-16	7.72E-16	1.68E-15		
12-01011-03	12-01011	03	GaGdT_ThSr	GROSS BETA	1	URENCO USA	DUP	10015621MA2 111006	uCi/ml	-8.88E-16	8.38E-16	1.90E-15		
12-01011-04	12-01011	04	GaGdT_ThSr	GROSS BETA	1	URENCO USA	DO	10015621MA2 111006	uCi/ml	-8.64E-16	8.39E-16	1.90E-15		
12-01011-05	12-01011	05	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111012	uCi/ml	-1.90E-16	7.83E-16	1.72E-15		
12-01011-06	12-01011	06	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111019	uCi/ml	3.02E-16	7.82E-16	1.64E-15		
12-01011-07	12-01011	07	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111026	uCi/ml	-2.44E-16	7.62E-16	1.67E-15		
12-01011-08	12-01011	08	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111102	uCi/ml	3.93E-16	8.19E-16	1.71E-15		
12-01011-09	12-01011	09	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111109	uCi/ml	-4.94E-16	8.48E-16	1.88E-15		
12-01011-10	12-01011	10	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111116	uCi/ml	4.04E-16	7.67E-16	1.60E-15		
12-01011-11	12-01011	11	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111123	uCi/ml	-9.23E-16	7.47E-16	1.74E-15		
12-01011-12	12-01011	12	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111130	uCi/ml	-1.42E-15	9.55E-16	2.17E-15		
12-01011-13	12-01011	13	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111207	uCi/ml	-4.06E-16	9.01E-16	1.98E-15		
12-01011-14	12-01011	14	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111214	uCi/ml	-2.46E-16	8.60E-16	1.87E-15		
12-01011-15	12-01011	15	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111221	uCi/ml	2.51E-17	8.66E-16	1.85E-15		
12-01011-16	12-01011	16	GaGdT_ThSr	GROSS BETA	1	URENCO USA	TRG	10015621MA2 111228	uCi/ml	-1.07E-15	7.19E-16	1.67E-15		

## Generic Data Report 12-01011

LCSFlag	RPDFlag	MDAFLag	BlankFlag	SampleDate	AliquotNetEquiv	RadioPercentRec	GravPercentRec	MeanPercentRec	SAF	Sept0Date	Sept1Date	CountDate	Halfife_days	Detector	Carrier
OK		INV		1/4/2012	1	0	0	0	1			1/15/2012	0	LB4110A	B1
		OK	OK	1/4/2012	300000000	0	0	0	1			1/15/2012	0	LB4110R	A2
		OK		10/6/2011	334000000	0	0	0	1			1/15/2012	0	LB4110A	C2
		OK		10/6/2011	334000000	0	0	0	1			1/15/2012	0	LB4110A	C2
		OK		10/12/2011	277000000	0	0	0	1			1/15/2012	0	LB4110R	A3
		OK		10/19/2011	312000000	0	0	0	1			1/15/2012	0	LB4110R	A4
		OK		10/26/2011	315000000	0	0	0	1			1/15/2012	0	LB4110R	B1
		OK		11/2/2011	295000000	0	0	0	1			1/15/2012	0	LB4110R	B2
		OK		11/9/2011	291000000	0	0	0	1			1/15/2012	0	LB4110R	B3
		OK		11/16/2011	306000000	0	0	0	1			1/15/2012	0	LB4110R	B4
		OK		11/23/2011	297000000	0	0	0	1			1/15/2012	0	LB4110R	C1
		OK		11/30/2011	323000000	0	0	0	1			1/15/2012	0	LB4110R	C2
		OK		12/7/2011	295000000	0	0	0	1			1/15/2012	0	LB4110R	C3
		OK		12/14/2011	319000000	0	0	0	1			1/15/2012	0	LB4110R	C4
		OK		12/21/2011	300000000	0	0	0	1			1/15/2012	0	LB4110A	D2
		OK		12/28/2011	338000000	0	0	0	1			1/15/2012	0	LB4110A	D4
OK		INV		1/4/2012	1	0	0	0	1			1/15/2012	0	LB4110A	B1
		OK	OK	1/4/2012	300000000	0	0	0	1			1/15/2012	0	LB4110R	A2
	NA	OK		10/6/2011	334000000	0	0	0	1			1/15/2012	0	LB4110A	C2
		OK		10/6/2011	334000000	0	0	0	1			1/15/2012	0	LB4110A	C2
		OK		10/12/2011	277000000	0	0	0	1			1/15/2012	0	LB4110R	A3
		OK		10/19/2011	312000000	0	0	0	1			1/15/2012	0	LB4110R	A4
		OK		10/26/2011	315000000	0	0	0	1			1/15/2012	0	LB4110R	B1
		OK		11/2/2011	295000000	0	0	0	1			1/15/2012	0	LB4110R	B2
		OK		11/9/2011	291000000	0	0	0	1			1/15/2012	0	LB4110R	B3
		OK		11/16/2011	306000000	0	0	0	1			1/15/2012	0	LB4110R	B4
		OK		11/23/2011	297000000	0	0	0	1			1/15/2012	0	LB4110R	C1
		OK		11/30/2011	323000000	0	0	0	1			1/15/2012	0	LB4110R	C2
		OK		12/7/2011	295000000	0	0	0	1			1/15/2012	0	LB4110R	C3
		OK		12/14/2011	319000000	0	0	0	1			1/15/2012	0	LB4110R	C4
		OK		12/21/2011	300000000	0	0	0	1			1/15/2012	0	LB4110A	D2
		OK		12/28/2011	338000000	0	0	0	1			1/15/2012	0	LB4110A	D4



## Generic Data Report 12-01011

CountTime	Counts	BkgCPM	Eff	UserName	ModDate	RPD_Value	Matrix	DateReceived	GrossWetWt	PercentLiq	PercentSolid	Date_t_0	UserName_t_0	DilutionRatio	SolutionNo	PrepDate
30	5463	0.116666667	0.2821	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	4	0.05	0.2968	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	8	0.066666667	0.2857	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	5	0.066666667	0.2857	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	9	0.066666667	0.3007	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	3	0.033333333	0.2825	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	6	0.016666667	0.2819	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	7	0.033333333	0.2778	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	5	0	0.2919	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	5	0.05	0.2895	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	5	0.033333333	0.2806	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	8	0	0.2886	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	3	0.016666667	0.2736	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	7	0	0.2722	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	5	0.05	0.2912	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	1	0.066666667	0.2944	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
30	9442	1.466666667	0.4817	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	115	1	0.4871	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	132	1.4	0.4555	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	133	1.4	0.4555	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	105	0.933333333	0.4999	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	132	1	0.4786	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	122	1.1	0.4886	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	135	1	0.486	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	129	1.233333333	0.4965	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	128	0.933333333	0.4858	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	87	1.016666667	0.4795	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	170	1.9	0.4758	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	137	1.266666667	0.4705	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	154	1.366666667	0.4781	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	155	1.283333333	0.4979	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012
120	107	1.283333333	0.4889	AGRIGSBY	1/16/2012		AF	1/4/2012	0	0	0			1		1/13/2012

## Generic Data Report 12-01011

AliquotDate	Identified	CoordinateY	XYUnits	CoordinateZ	ZUnits	GravFilterNet	InstCode	Method	TPUFactor	CSU	LCSKnownError
1/9/2012						0.0001	2	LANL MLR-100 Modified	0.109212751	3.26596E-05	1.34565E-05
1/9/2012						0.0001	2	LANL MLR-100 Modified	0.109212751	2.61461E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.08408E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.78294E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	3.64228E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.20899E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.35074E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.98136E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	1.95175E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.75492E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.64895E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.25993E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.03894E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.26601E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.79362E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.109212751	2.23681E-16	
1/9/2012						0.0001	2	LANL MLR-100 Modified	0.138183631	3.49268E-05	6.82271E-06
1/9/2012						0.0001	2	LANL MLR-100 Modified	0.138183631	7.72025E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.46566E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.4746E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.83127E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.83269E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.62604E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.21266E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.5026E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.68771E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.5768E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.74929E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	9.02875E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.60925E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	8.65847E-16	
1/9/2012						1E-04	2	LANL MLR-100 Modified	0.138183631	7.34266E-16	

## Generic Data Report 12-01064

InternalID	InternalWorkOrder	Fraction	AnalysisCode	Isotope	Run	ClientName	SampleType	ClientID	ReportUnits	Result	Uncertainty	MDA	LSCKnown
12-01064-01	12-01064	01	UUIISO Apex	U-234	1	URENCO USA	LCS	LCS	uCi/ml	6.80551E-06	9.15367E-07	5.5704E-08	8.09409E-06
12-01064-02	12-01064	02	UUIISO Apex	U-234	1	URENCO USA	MBL	BLANK	uCi/ml	8.79241E-18	1.11729E-17	1.6712E-17	
12-01064-03	12-01064	03	UUIISO Apex	U-234	1	URENCO USA	DUP	1001-562-1MA1 QTR4 2011	uCi/ml	1.98643E-17	3.04178E-17	5.15878E-17	
12-01064-04	12-01064	04	UUIISO Apex	U-234	1	URENCO USA	DO	1001-562-1MA1 QTR4 2011	uCi/ml	4.70758E-18	1.69139E-17	3.82956E-17	
12-01064-05	12-01064	05	UUIISO Apex	U-234	1	URENCO USA	TRG	1300-562-1MA1 QTR4 2011	uCi/ml	1.11321E-17	1.54567E-17	2.34599E-17	
12-01064-06	12-01064	06	UUIISO Apex	U-234	1	URENCO USA	TRG	1001-562-1MA2 QTR4 2011	uCi/ml	7.99113E-18	1.10843E-17	1.68413E-17	
12-01064-01	12-01064	01	UUIISO Apex	U-235	1	URENCO USA	LCS	LCS	uCi/ml	2.87589E-07	1.34582E-07	6.87177E-08	
12-01064-02	12-01064	02	UUIISO Apex	U-235	1	URENCO USA	MBL	BLANK	uCi/ml	-1.17088E-18	6.94247E-18	1.64637E-17	
12-01064-03	12-01064	03	UUIISO Apex	U-235	1	URENCO USA	DUP	1001-562-1MA1 QTR4 2011	uCi/ml	-6.31189E-18	1.9229E-17	5.2357E-17	
12-01064-04	12-01064	04	UUIISO Apex	U-235	1	URENCO USA	DO	1001-562-1MA1 QTR4 2011	uCi/ml	2.25869E-17	2.87028E-17	4.29316E-17	
12-01064-05	12-01064	05	UUIISO Apex	U-235	1	URENCO USA	TRG	1300-562-1MA1 QTR4 2011	uCi/ml	4.57761E-18	1.09795E-17	2.30166E-17	
12-01064-06	12-01064	06	UUIISO Apex	U-235	1	URENCO USA	TRG	1001-562-1MA2 QTR4 2011	uCi/ml	5.93539E-19	8.30197E-18	2.37039E-17	
12-01064-01	12-01064	01	UUIISO Apex	U-238	1	URENCO USA	LCS	LCS	uCi/ml	6.85999E-06	9.20602E-07	6.45732E-08	7.88967E-06
12-01064-02	12-01064	02	UUIISO Apex	U-238	1	URENCO USA	MBL	BLANK	uCi/ml	-2.83521E-18	5.9079E-18	1.75107E-17	
12-01064-03	12-01064	03	UUIISO Apex	U-238	1	URENCO USA	DUP	1001-562-1MA1 QTR4 2011	uCi/ml	-7.79175E-18	1.7064E-17	5.83544E-17	
12-01064-04	12-01064	04	UUIISO Apex	U-238	1	URENCO USA	DO	1001-562-1MA1 QTR4 2011	uCi/ml	1.44111E-17	1.99832E-17	3.03715E-17	
12-01064-05	12-01064	05	UUIISO Apex	U-238	1	URENCO USA	TRG	1300-562-1MA1 QTR4 2011	uCi/ml	8.14634E-18	1.24688E-17	1.85777E-17	
12-01064-06	12-01064	06	UUIISO Apex	U-238	1	URENCO USA	TRG	1001-562-1MA2 QTR4 2011	uCi/ml	6.87024E-18	1.11308E-17	1.91324E-17	

## Generic Data Report 12-01064

LCSPercentR	LCSFlag	RPDFlag	MDAFLag	BlankFlag	SampleDate	AliquotNetEquiv	RadioPercentRec	GravPercentRec	MeanPercentRec	SAF	Sept0Date	Sept1Date	CountDate	Halfife_days	Detector
84.08003647	OK		INV		1/17/2012	1	120.6456661	0	0				1/23/2012	0	A_Spec
			OK	OK	1/17/2012	3980000000	133.5711598	0	0				1/23/2012	0	A_Spec
		NA	OK		12/28/2011	1930000000	113.2216573	0	0				1/23/2012	0	A_Spec
			OK		12/28/2011	1930000000	147.5333333	0	0				1/23/2012	0	A_Spec
			OK		12/29/2011	4090000000	79.44429517	0	0				1/23/2012	0	A_Spec
			OK		12/28/2011	4000000000	124.5597839	0	0				1/23/2012	0	A_Spec
			INV		1/17/2012	1	120.6456661	0	0				1/23/2012	0	A_Spec
			OK	OK	1/17/2012	3980000000	133.5711598	0	0				1/23/2012	0	A_Spec
		NA	OK		12/28/2011	1930000000	113.2216573	0	0				1/23/2012	0	A_Spec
			OK		12/28/2011	1930000000	147.5333333	0	0				1/23/2012	0	A_Spec
			OK		12/29/2011	4090000000	79.44429517	0	0				1/23/2012	0	A_Spec
			OK		12/28/2011	4000000000	124.5597839	0	0				1/23/2012	0	A_Spec
86.94902509	OK		INV		1/17/2012	1	120.6456661	0	0				1/23/2012	0	A_Spec
			OK	OK	1/17/2012	3980000000	133.5711598	0	0				1/23/2012	0	A_Spec
		NA	OK		12/28/2011	1930000000	113.2216573	0	0				1/23/2012	0	A_Spec
			OK		12/28/2011	1930000000	147.5333333	0	0				1/23/2012	0	A_Spec
			OK		12/29/2011	4090000000	79.44429517	0	0				1/23/2012	0	A_Spec
			OK		12/28/2011	4000000000	124.5597839	0	0				1/23/2012	0	A_Spec

## Generic Data Report 12-01064

Carrier	CountTime	Counts	BkgCPM	Eff	UserName	ModDate	RPD_Value	Matrix	DateReceived	GrossWetWt	PercentLiq	PercentSolid	Date_t_0	UserName_t_0	DilutionRatio	SolutionNo	PrepDate
Alpha_017	170.02	548	0.00139	17.7	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_018	170.02	3.15	0.005	17.9	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_021	170	2.64	0.008	16.1	AGRIGSBY	1/23/2012	123.3663376	AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_022	170.02	0.81	0.007	16	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_023	170	2.49	0.003	18.3	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_024	170.02	2.49	0.003	16.6	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_017	170.02	18.8	0.00139	17.7	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_018	170.02	-0.34	0.002	17.9	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_021	170	-0.68	0.004	16.1	AGRIGSBY	1/23/2012	355.1312382	AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_022	170.02	3.15	0.005	16	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_023	170	0.83	0.001	18.3	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_024	170.02	0.15	0.005	16.6	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_017	170.02	555	0.00278	17.7	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_018	170.02	-1.02	0.006	17.9	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_021	170	-1.04	0.012	16.1	AGRIGSBY	1/23/2012	670.8435454	AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_022	170.02	2.49	0.003	16	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_023	170	1.83	0.001	18.3	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012
Alpha_024	170.02	2.15	0.005	16.6	AGRIGSBY	1/23/2012		AF	1/17/2012	0	0	0			1	U-10a	1/19/2012

## Generic Data Report 12-01064

AliquotDate	Identified	CoordinateY	XYUnits	CoordinateZ	ZUnits	GravFilterNet	InstCode	Method	TPUFactor	CSU	LCSKnownError
1/19/2012							03	EML U-02 Modified	0.071418291	1.0364E-06	2.91387E-07
1/19/2012							03	EML U-02 Modified	0.071418291	1.11905E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	3.04508E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	1.69173E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	1.54772E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	1.1099E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	1.3614E-07	
1/19/2012							03	EML U-02 Modified	0.071418291	6.94297E-18	
1/19/2012							03	EML U-02 Modified	0.071418291	1.92343E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	2.87481E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	1.09844E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	8.30208E-18	
1/19/2012							03	EML U-02 Modified	0.071418291	1.04285E-06	2.84028E-07
1/19/2012							03	EML U-02 Modified	0.071418291	5.91137E-18	
1/19/2012							03	EML U-02 Modified	0.071418291	1.70731E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	2.00097E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	1.24824E-17	
1/19/2012							03	EML U-02 Modified	0.071418291	1.11416E-17	

**URENCO  
URENCO  
SDG: 287902**

**Receipt Narrative  
for  
URENCO  
SDG: 287902**

**October 25, 2011**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary**

**Sample receipt** The sample arrived at GEL Laboratories LLC, Charleston, South Carolina on October 12, 2011 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification** The laboratory received the following sample:

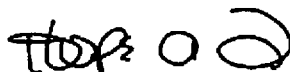
<u>Laboratory ID</u>	<u>Client ID</u>
287902001	LS1-Wastewater-101111-01

**Case Narrative**

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

**Data Package**

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry and Radiochemistry.



Hope Taylor for  
Ann Skradski  
Project Manager



**Radiochemistry Case Narrative  
URENCO (UREN)  
SDG 287902**

**Method/Analysis Information**

**Product:** Alphaspec U, Liquid  
**Analytical Method:** DOE EML HASL-300, U-02-RC Modified  
**Analytical Batch Number:** 1150239

<b>Sample ID</b>	<b>Client ID</b>
287902001	LS1-Wastewater-101111-01
1202508507	Method Blank (MB)
1202508508	287918002(Pond2-WS-101111-01D) Sample Duplicate (DUP)
1202508509	287918002(Pond2-WS-101111-01D) Matrix Spike (MS)
1202508510	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-011 REV# 21.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 287918002 (Pond2-WS-101111-01D).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:**

**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

Samples 1202508507 (MB) and 287902001 (LS1-Wastewater-101111-01) were recounted due to high MDCs. The recounts are reported.

**Miscellaneous Information:**

**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Manual Integration**

No manual integrations were performed on data in this batch.

**Additional Comments**

The aliquot for the Matrix Spike 1202508509 (Pond2-WS-101111-01D) was reduced due to limited sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

UREN001 URENCO

Client SDG: 287902 GEL Work Order: 287902

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

**Signature:**



**Name:** Kate Gellatly

**Date:** 25 OCT 2011

**Title:** Analyst I

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Company : Urenco USA  
 Address : Andrews 275 Hwy 176  
 Eunice, New Mexico 88231  
 Contact: Mr. Matthew Graves  
 Project: URENCO

Report Date: October 25, 2011

Client Sample ID: LS1-Wastewater-101111-01  
 Sample ID: 287902001  
 Matrix: Waste Water  
 Collect Date: 11-OCT-11  
 Receive Date: 12-OCT-11  
 Collector: Client

Project: UREN00111  
 Client ID: UREN001

Parameter	Qualifier	Result	Uncertainty	DL	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
<b>Rad Alpha Spec Analysis</b>													
<i>Alphaspec U, Liquid "As Received"</i>													
Uranium-233/234		1.77E-09	+/-1.56E-10	5.03E-11	+/-2.86E-10	5.00E-11	uCi/mL		KXM4	10/20/11	1801	1150239	1
Uranium-235/236	U	3.89E-11	+/-3.28E-11	4.77E-11	+/-3.32E-11	5.00E-11	uCi/mL						
Uranium-238		8.94E-10	+/-1.12E-10	5.03E-11	+/-1.65E-10	5.00E-11	uCi/mL						

**The following Analytical Methods were performed**

Method	Description
1	DOE EML HASL-300, U-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Liquid "As Received"	1150239	63.0	(15%-125%)

Notes:

# Chain of Custody Record

No 4233

Eberline Services  
601 Scarboro Road  
Oak Ridge, TN 37830  
(865) 481-0683 Phone • (865) 483-4621 Fax



Project Name: <u>URENCO USA</u>	Project Number:
Send Report To: <u>Wes Terry</u>	Sampler (Print Name): <u>Whitney Fort</u>
Address: <u>275 Hwy 196</u>	Sampler (Print Name):
<u>Funite, Nrn 88231</u>	Shipment Method:
Phone: <u>(575) 394-6354</u>	Airbill Number:
Fax:	Laboratory Receiving:
Purchase Order #: _____	

Analysis Requested  
Gross α  
Gross β  
Composite \* 3700

Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested										Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)			
1300-562-1MA1	110706	7/6/11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.88e <sup>8</sup> mL	
1300-562-1MA1	110713	7/13/11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.95e <sup>8</sup> mL	2.724e <sup>8</sup> mL
1300-562-1MA1	110713	7/13/11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.74e <sup>8</sup> mL	
1300-562-1MA1	110720	7/20/11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.71e <sup>8</sup> mL	
1300-562-1MA1	110727	7/27/11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.56e <sup>8</sup> mL	
1300-562-1MA1	110803	8/03/11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.74e <sup>8</sup> mL	
1300-562-1MA1	110810	8-10-11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.81e <sup>8</sup> mL	
1300-562-1MA1	110817	8-17-11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.68e <sup>8</sup> mL	
1300-562-1MA1	110824	8-24-11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.89e <sup>8</sup> mL	
1300-562-1MA1	110831	8-31-11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.51e <sup>8</sup> mL	
1300-562-1MA1	110907	9-7-11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.76e <sup>8</sup> mL	
1300-562-1MA1	110914	9-14-11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	2.75e <sup>8</sup> mL	
11-358		9-27-11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	1.48e <sup>9</sup> mL	
11-366		10-4-11	AF	1	X	X	X	X	X	X	X	X	X	X	X	X	X	5.87e <sup>8</sup> mL	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:	Sample Custodian Remarks (Completed By Laboratory):			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:	QA/QC Level	Turnaround	Sample Receipt	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:	Level I <input type="checkbox"/>	Routine <input checked="" type="checkbox"/>	Total # Containers Received?	
				Level II <input type="checkbox"/>	24 Hour <input type="checkbox"/>	COC Seals Present?	
				Level III <input type="checkbox"/>	1 Week <input type="checkbox"/>	COC Seals Intact?	
				Other <input type="checkbox"/>	Other _____	Received Containers Intact?	
						Temperature?	

\* A ... performed for 11035 11024 11021 11020

### Air Monitor Filter Airflow Sheet (1300-562-1MA1) 3rd Quarter 2011

Field Sample ID	Date/Time ON	Date/Time OFF	Total Stack Volume (scf)	Total Sample Volume (mL)
1300-562-1MA1 110706	06/29/11 1031	07/06/11 1010	1.00e8	2.88e8
1300-562-1MA1 110713	07/06/11 1014	07/13/11 0952	1.06e8	2.74e8
1300-562-1MA1 110720	07/13/11 0957	07/20/11 1000	1.04e8	2.71e8
1300-562-1MA1 110727	07/20/11 1005	07/27/11 1000	8.80e7	2.56e8
1300-562-1MA1 110803	07/27/11 1008	08/03/11 0920	1.05e8	2.74e8
1300-562-1MA1 110810	08/03/11 0927	08/10/11 1005	1.07e8	2.81e8
1300-562-1MA1 110817	08/10/11 1016	08/17/11 0940	1.05e8	2.68e8
1300-562-1MA1 110824	08/17/11 0946	08/24/11 0837	1.05e8	2.89e8
1300-562-1MA1 110831	08/24/11 0841	08/31/11 1012	1.17e8	2.51e8
1300-562-1MA1 110907	08/31/11 1039	09/07/11 0941	1.04e8	2.76e8
1300-562-1MA1 110914	09/07/11 0948	09/14/11 1020	1.09e8	2.75e8
11-358*	09/09/11 0920	09/27/11 0630	NA	1.458e9
11-366*	09/27/11 0730	10/04/11 1120	NA	5.87e8

\*no stack flow and monitor shut off, this is a supplementary filter pulling room air

## 1300-562-1MA1

Date/Time Counted	Date/Time ON	Date/Time Off	Instrument Model, Serial #, Cal Due Date, Efficiency	Background (cpm)		Gross Counts (cpm)	
				$\alpha$	$\beta\gamma$	$\alpha$	$\beta\gamma$
7/7/11 1015	6/29/11 1031	7/6/11 1010	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	62	0	53
7/18/11 1020	7/6/11 1014	7/13/11 0952	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	49	0	53
7/22/22 1000	7/13/11 0957	7/20/11 1000	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	56	0	53
7/29/11 0945	7/20/11 1005	7/27/11 1000	2929 246798, 16Sept11, $\alpha$ 38.3% $\beta\gamma$ 22.9%	0	57	0	59
8/03/11 1530	8/3/11 1008	8/10/11 0920	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	57	1	55
8/12/11 1000	8/03/11 0927	8/10/11 1005	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	50	2	53
8/19/11 1000	8/10/11 1016	8/17/11 0940	2929 246798, 16Sept11, $\alpha$ 38.3% $\beta\gamma$ 22.9%	0	53	0	60
8/24/11 1400	8/17/11 0946	8/24/11 0837	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	51	0	39
9/2/11 1300	8/24/11 0841	8/31/11 1012	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	52	0	58
9/9/11 1500	8/31/11 1039	9/7/11 0941	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	61	0	60
9/15/11 1504	9/7/11 0948	9/14/11 1020	2929 246798, 16Sep11, $\alpha$ 38.3% $\beta\gamma$ 22.9%	0	54	0	79
*10/7/11 1030	9/9/11 0920	9/27/11 0630	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	56	0	66
**10/7/11 1030	9/27/11 0630	10/4/11 1120	2929 246800, 08Dec11, $\alpha$ 38.4% $\beta\gamma$ 23.3%	0	56	1	57

\* filter ID 11-358

\*\*filter ID 11-366

## Air Monitor Filter Airflow Sheet (1300-562-1MA1) 4th Quarter 2011

Field Sample ID	Date/Time ON	Date/Time OFF	Total Stack Volume (scf)	Total Sample Volume (mL)
11-385*	10/04/11 1120	10/16/11 1800	NA	1.00e9
1300-562-1MA1 111019	10/12/11 1117	10/19/11 1021	1.11e8	2.76e8
1300-562-1MA1 111026	10/19/11 1024	10/26/11 0945	9.28e7	2.89e8
1300-562-1MA1 111102	10/26/11 0950	11/02/11 0953	1.12e8	2.81e8
1300-562-1MA1 111109	11/02/11 1005	11/09/11 0955	1.12e8	2.78e8
1300-562-1MA1 111116	11/09/11 0959	11/16/11 0956	1.12e8	2.95e8
1300-562-1MA1 111123	11/16/11 1002	11/23/11 1121	1.13e8	2.77e8
1300-562-1MA1 111130	11/23/11 1131	11/30/11 0953	1.11e8	2.65e8
1300-562-1MA1 111207	11/30/11 1000	12/07/11 1056	1.12e8	2.87e8
1300-562-1MA1 111214	12/07/11 1100	12/14/11 1020	1.12e8	2.80e8
1300-562-1MA1 111221	12/14/11 1025	12/21/11 0804	1.10e8	3.03e8
1300-562-1MA1 111229	12/21/11 0806	12/29/11 1857	9.46e7	2.56e8

\*no stack flow and monitor shut off, this is a supplementary filter pulling room air



**Air Monitor Filter Airflow Sheet (1001-562-1MA1)  
3rd Quarter 2011**

Field Sample ID	Date/Time ON	Date/Time OFF	Total Stack Volume (scf)	Total Sample Volume (mL)
1001-562-1MA1 110706	06/29/11 0839	07/06/11 0819	3.93e6	2.87e8
1001-562-1MA1 110713	07/06/11 0820	07/13/11 0850	3.90e6	2.95e8
1001-562-1MA1 110720	07/13/11 0851	07/20/11 1317	3.93e6	3.08e8
1001-562-1MA1 110727	07/20/11 1318	07/27/11 0942	3.73e6	2.95e8
1001-562-1MA1 110803	07/27/11 0942	08/03/11 1435	3.94e6	3.08e8
1001-562-1MA1 110810	08/03/11 1436	08/10/11 0858	3.7e6	2.8e8
1001-562-1MA1 110817	08/11/10 0858	08/17/11 1014	3.85e6	2.91e8
1001-562-1MA1 110824	8/17/11 1015	08/24/11 1148	3.93e6	3.06e8
1001-562-1MA1 110831	08/24/11 1149	08/31/11 1450	3.93e6	2.91e8
1001-562-1MA1 110907	08/31/11 1451	09/07/11 0841	3.77e6	2.96e8
1001-562-1MA1 110914	09/07/11 0842	09/14/11 1142	3.96e6	3.04e8
1001-562-1MA1 110921	09/14/11 1143	09/21/11 1130	3.88e6	2.9e8
1001-562-1MA1 110928	09/21/11 1131	09/28/11 1540	3.96e6	3.12e8

**Air Monitor Filter Airflow Sheet (1001-562-1MA1)  
4th Quarter 2011**

Field Sample ID	Date/Time ON	Date/Time OFF	Total Stack Volume (scf)	Total Sample Volume (mL)
1001-562-1MA1 111006	09/28/11 1541	10/06/11 0845	4.31e6	3.26e8
1001-562-1MA1 111012	10/06/11 0846	10/12/11 1550	3.42e6	2.6e8
1001-562-1MA1 111019	10/12/11 1551	10/19/11 1339	3.85e6	2.92e8
1001-562-1MA1 111026	10/19/11 1340	10/26/11 0900	3.81e6	2.92e8
1001-562-1MA1 111102	10/26/11 0902	11/02/11 0848	3.97e6	2.98e8
1001-562-1MA1 111109	11/02/11 0850	11/09/11 1049	4.02e6	3.04e8
1001-562-1MA1 111116	11/9/11 1050	11/16/11 0753	3.85e6	3.04e8
1001-562-1MA1 111123	11/16/11 0754	11/23/11 0837	3.95e6	2.99e8
1001-562-1MA1 111130	11/23/11 0838	11/30/11 0932	4.00e6	2.96e8
1001-562-1MA1 111207	11/30/11 0933	12/07/11 1053	4.01e6	3.02e8
1001-562-1MA1 111214	12/07/11 1054	12/14/11 0845	3.91e6	3.03e8
1001-562-1MA1 111221	12/14/11 0846	12/21/11 0845	3.95e6	2.85e8
1001-562-1MA1 111228	12/21/11 0846	12/28/11 0951	3.98e6	2.98e8

**Air Monitor Filter Airflow Sheet (1001-562-1MA2)  
3rd Quarter 2011**

<b>Field Sample ID</b>	<b>Date/Time ON</b>	<b>Date/Time OFF</b>	<b>Total Stack Volume (scf)</b>	<b>Total Sample Volume (mL)</b>
1001-562-1MA2 110706	06/29/11 0840	07/06/11 0821	4.11e6	3.24e8
1001-562-1MA2 110713	07/06/11 0822	07/13/11 0852	4.07e6	3.02e8
1001-562-1MA2 110720	07/13/11 0853	07/20/11 1319	4.16e6	3.03e8
1001-562-1MA2 110727	07/20/11 1320	07/27/11 0944	3.95e6	2.84e8
1001-562-1MA2 110803	07/27/11 0945	08/03/11 1437	4.14e6	3.16e8
1001-562-1MA2 110810	08/03/11 1438	08/10/11 0855	3.89e6	2.8e8
1001-562-1MA2 110817	08/10/11 0856	08/17/11 1009	4.04e6	2.79e8
1001-562-1MA2 110824	08/17/11 1010	08/24/11 1145	4.1e6	2.8e8
1001-562-1MA2 110831	08/24/11 1146	08/31/11 1445	4.07e6	3.04e8
1001-562-1MA2 110907	08/31/11 1446	09/07/11 0837	3.92e6	3.18e8
1001-562-1MA2 110914	09/07/11 0838	09/14/11 1414	4.2e6	3.3e8
1001-562-1MA2 110921	09/14/11 1415	09/21/11 1127	3.99e6	2.9e8
1001-562-1MA2 110928	09/21/11 1128	09/28/11 1536	4.12e6	3.33e8

**Air Monitor Filter Airflow Sheet (1001-562-1MA2)  
4th Quarter 2011**

Field Sample ID	Date/Time ON	Date/Time OFF	Total Stack Volume (scf)	Total Sample Volume (mL)
1001-562-1MA2 111006	09/28/11 1537	10/06/11 0847	4.44e6	3.34e8
1001-562-1MA2 111012	10/06/11 0848	10/12/11 1552	3.54e6	2.77e8
1001-562-1MA2 111019	10/12/11 1553	10/19/11 1336	3.95e6	3.12e8
1001-562-1MA2 111026	10/19/11 1337	10/26/11 0901	3.98e6	3.15e8
1001-562-1MA2 111102	10/26/11 0902	11/02/11 0845	4.11e6	2.95e8
1001-562-1MA2 111109	11/02/11 0846	11/09/11 1046	4.19e6	2.91e8
1001-562-1MA2 111116	11/09/11 1047	11/16/11 0755	4.02e6	3.06e8
1001-562-1MA2 111123	11/16/11 0756	11/23/11 0839	4.12e06	2.97e8
1001-562-1MA2 111130	11/23/11 0840	11/30/11 0929	4.16e6	3.23e8
1001-562-1MA2 111207	11/30/11 0930	12/07/11 1051	4.17e6	2.95e8
1001-562-1MA2 111214	12/07/11 1052	12/14/11 0849	4.07e6	3.19e8
1001-562-1MA2 111221	12/14/11 0850	12/21/11 0849	4.12e6	3.00e8
1001-562-1MA2 111228	12/21/11 0850	12/28/11 0948	4.11e6	3.38e8

**APPENDIX B**  
**Meteorological Reports**

**SUMMARY OF  
METEOROLOGICAL DATA AT THE  
NATIONAL ENRICHMENT FACILITY  
MONITORING STATION  
JULY - SEPTEMBER 2011**

Prepared for:

Louisiana Energy Services, LLC  
275 Andrews Highway  
P. O. Box 1789  
Eunice, New Mexico 88231

By

Meteorological Solutions Inc.  
Project No. 101110145

October 2011



**SUMMARY OF METEOROLOGICAL DATA AT THE  
NATIONAL ENRICHMENT FACILITY MONITORING STATION  
JULY - SEPTEMBER 2011**

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**SUMMARY OF METEOROLOGICAL DATA AT THE  
NATIONAL ENRICHMENT FACILITY MONITORING STATION  
JULY - SEPTEMBER 2011**

**1.0 INTRODUCTION**

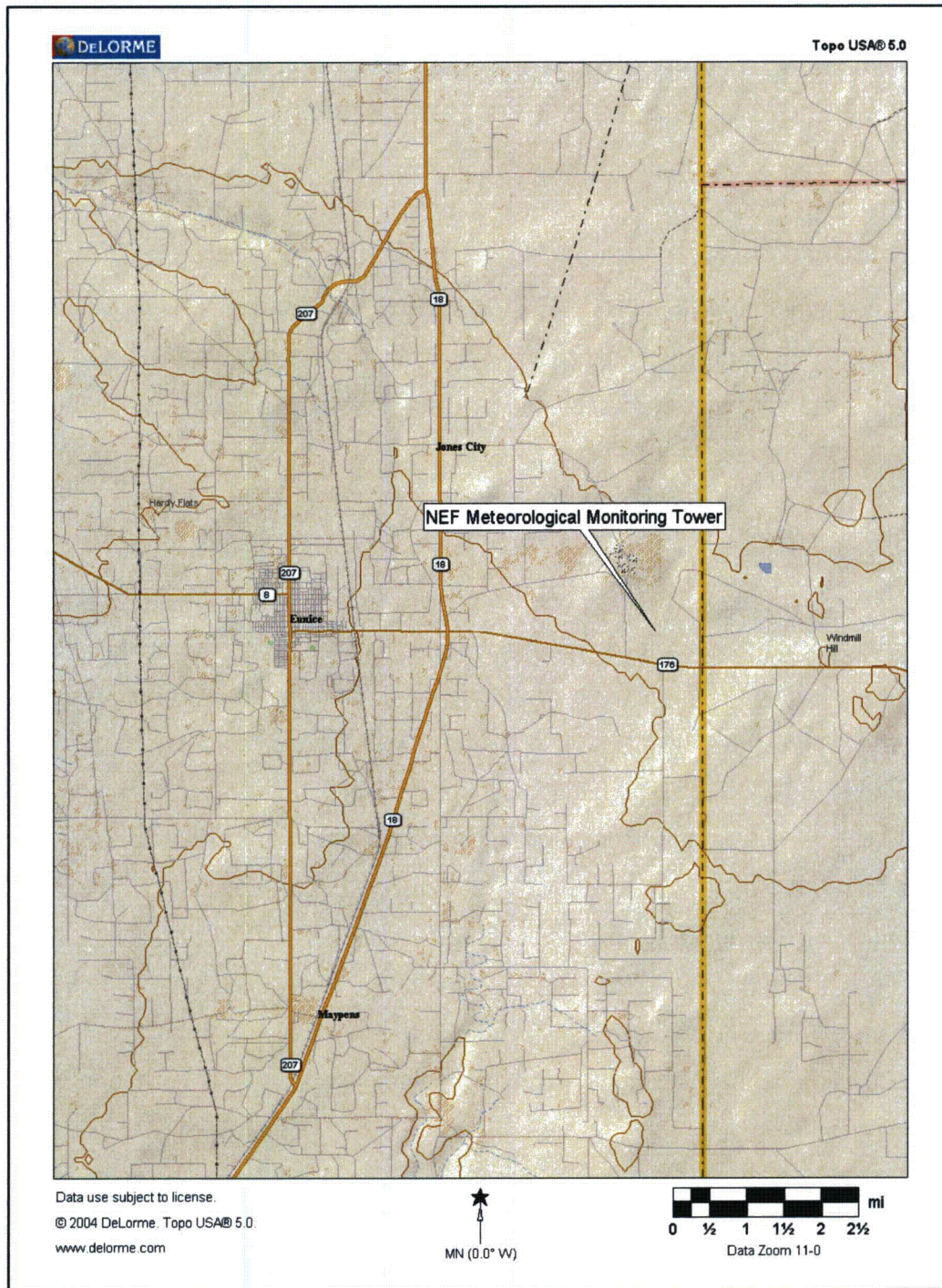
This data report, prepared for Louisiana Energy Services, Inc (LES) by Meteorological Solutions Inc. (MSI), summarizes the meteorological data collected from July 1 through September 30, 2011 at a monitoring station located at the National Enrichment Facility (NEF) in Lea County, New Mexico.

**1.1 Background**

On June 25, 2009, meteorological equipment was installed on a 40-meter tower at the NEF monitoring location. Measurements collected on the solar-powered tower consist of horizontal wind speed and wind direction at 10 and 40 meters, temperature at 10 and 40 meters, relative humidity at 10 meters, solar radiation at 2 meters, precipitation and barometric pressure at 1 meter. Official meteorological monitoring began on September 8, 2009 at 13:00.

**1.2 Monitoring Station Description**

The meteorological monitoring site is located on the north side of the complex. Figure 1.1 presents the approximate location of the NEF meteorological monitoring station in relation to Eunice, New Mexico.



**Figure 1.1 Location of NEF Meteorological Monitoring Station**

The meteorological equipment operating at the station is listed in Table 1-1.

**Table 1-1**  
**NEF Meteorological Monitoring Equipment**

<b>Parameter</b>	<b>Sensor/Monitor Model</b>	<b>Serial Number</b>
Wind Direction	Climatronics Model 100076	4982 - 10M
	Climatronics Model 100076	4981 - 40M
Wind Speed	Climatronics Model 100075	5333 - 10M
	Climatronics Model 100075	5332 - 40M
Temperature	RM Young Model 43132	14111 - 10M
	RM Young Model 43132	14114 - 40M
Relative Humidity	Vaisala Model HMP45AC	D2020110
Solar Radiation	Kipp & Zonen Model CMP3	80360
Barometric Pressure	Vaisala Model PTB110	D2220013
Precipitation	Met One Model 385	H6651

### 1.3 Data Acquisition

Data from the instruments listed in Table 1-1 are collected and stored by a Campbell Scientific Inc. Model CR3000 data logger. Measurements are made every second and averages are computed by the data logger and recorded every 15 minutes.

The NEF data logger is interrogated every day by MSI via Internet and the data are copied to a MSI computer. The data logger telecommunications software performs dynamic error checking during download to ensure that an exact duplicate file is created. Any failures in instrumentation or data acquisition are identified within one day of occurrence so that field personnel are able to correct problems in a timely manner in order to prevent excessive data loss.

The data collected during each interrogation were checked for consistency and the parameters were plotted for visual inspection. The quality assurance stacked parameter/time plots for the months of July through September are presented in Appendix A. Data presented in Appendix A represent the final, quality assured data set. Hourly values provided in this report are the arithmetic hourly averages of the recorded fifteen-minute averages from the data logger. If fewer than 45 minutes are available, the hour is considered "missing".

## 2.0 DATA SUMMARY

This section of the report summarizes the data results and data recovery for July through September 2011. Hourly data for the period are tabulated in the appendices. These appendix tables display the hourly average of measurements recorded in the hour "ending"; that is, the first hour of the day is labeled 01, meaning the hour beginning at 00:00:01 and ending at 01:00:00 a.m. The second hour is labeled 02, meaning the values collected from 01:00:01 a.m. to 02:00:00 a.m.

### 2.1 Meteorological Data

Meteorological data records from the NEF monitoring site include wind direction and horizontal wind speed at 10 and 40 meters, temperature at 10 and 40 meters, vertical temperature difference between 10 and 40 meters, relative humidity at 10 meters, solar radiation at 2 meters, barometric pressure at 1.5 meters, and precipitation at 1 meter.

#### 2.1.1 Wind Speed and Horizontal Wind Direction

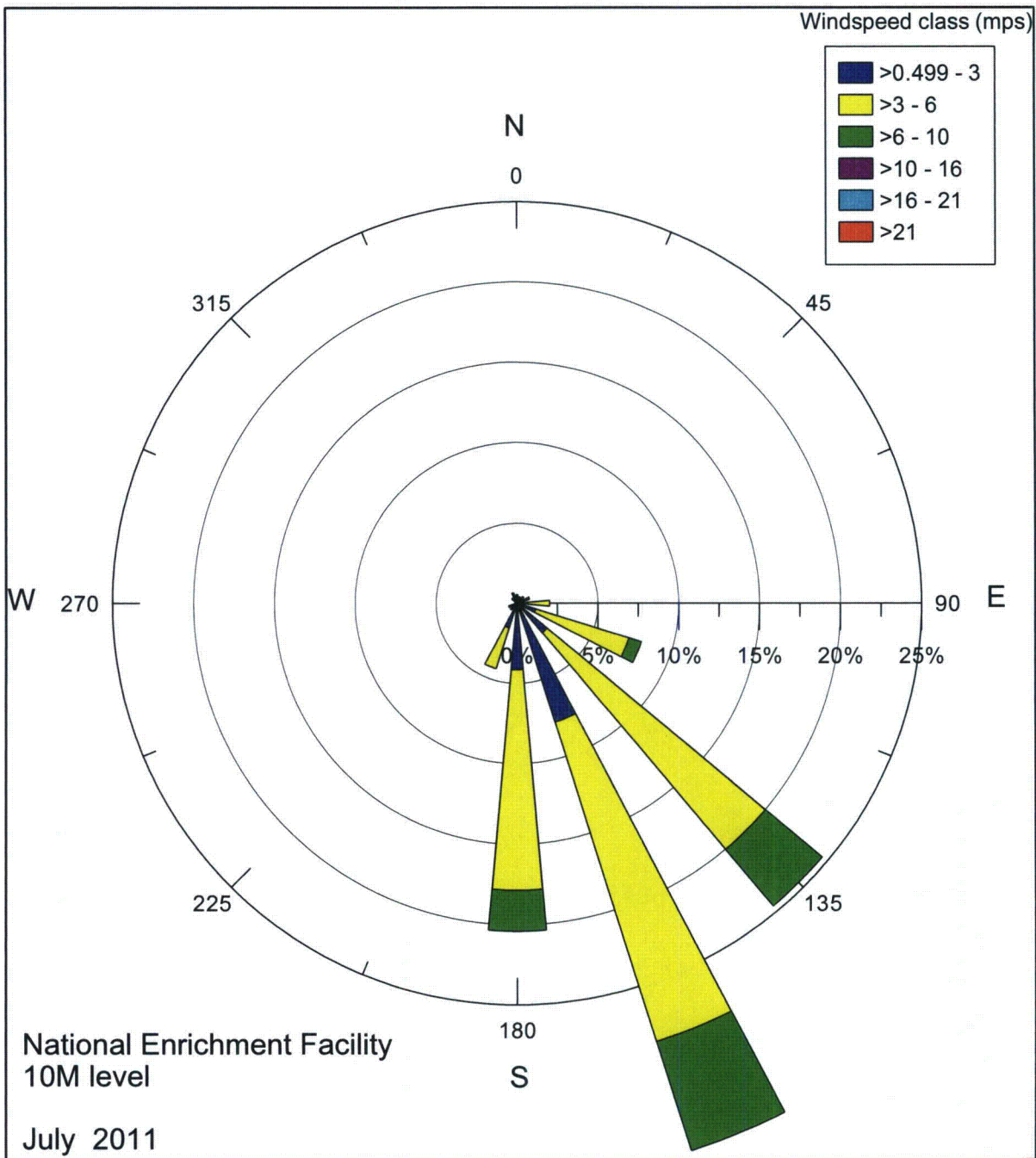
Figures 2.1 through 2.3 provide diagrams of the joint frequency of occurrence distributions (wind rose) of wind speed and wind direction by month for the third calendar year quarter (July through September 2011) for the 10-meter level. Figure 2.4 presents the third quarter 10-meter level wind rose. Figures 2.5 through 2.7 provide wind roses by month for July through September for the 40-meter level. Figure 2.8 presents the third quarter 40-meter level wind rose. Summary tables of hourly average wind direction and wind speed for the 10- and 40-meter levels for the third quarter are presented in Appendix B.

The most frequent (and predominant) winds in July through September 2011 at the 10-meter level were from the south-southeast followed by the southeast. At the 40-meter level, the predominant winds in July through September 2011 were from the south-southeast followed by the south. Reported wind directions represent the directions from which the wind is blowing.

For July through September, at the 10-meter level, 0.1 percent of the wind speeds were calm. At the 40-meter level, 0.0 percent of the wind speeds were calm.

For July through September, the percentage of wind speeds that were less than or equal to 10 mps (22 mph) was 99.8 percent at the 10-meter level and 98.7 percent at the 40-meter level. At the 10- and 40-meter levels, 0.0 percent of the winds were greater than 16 mps (35 mph).

For July through September at the 10-meter level, the sector with the highest average wind speed was the north-northeast followed by the east-northeast. At the 40-meter level, the sector with the highest average wind speed was the northeast followed by the north-northeast.



**Figure 2.1 10-Meter Level Wind Rose, July 2011.**



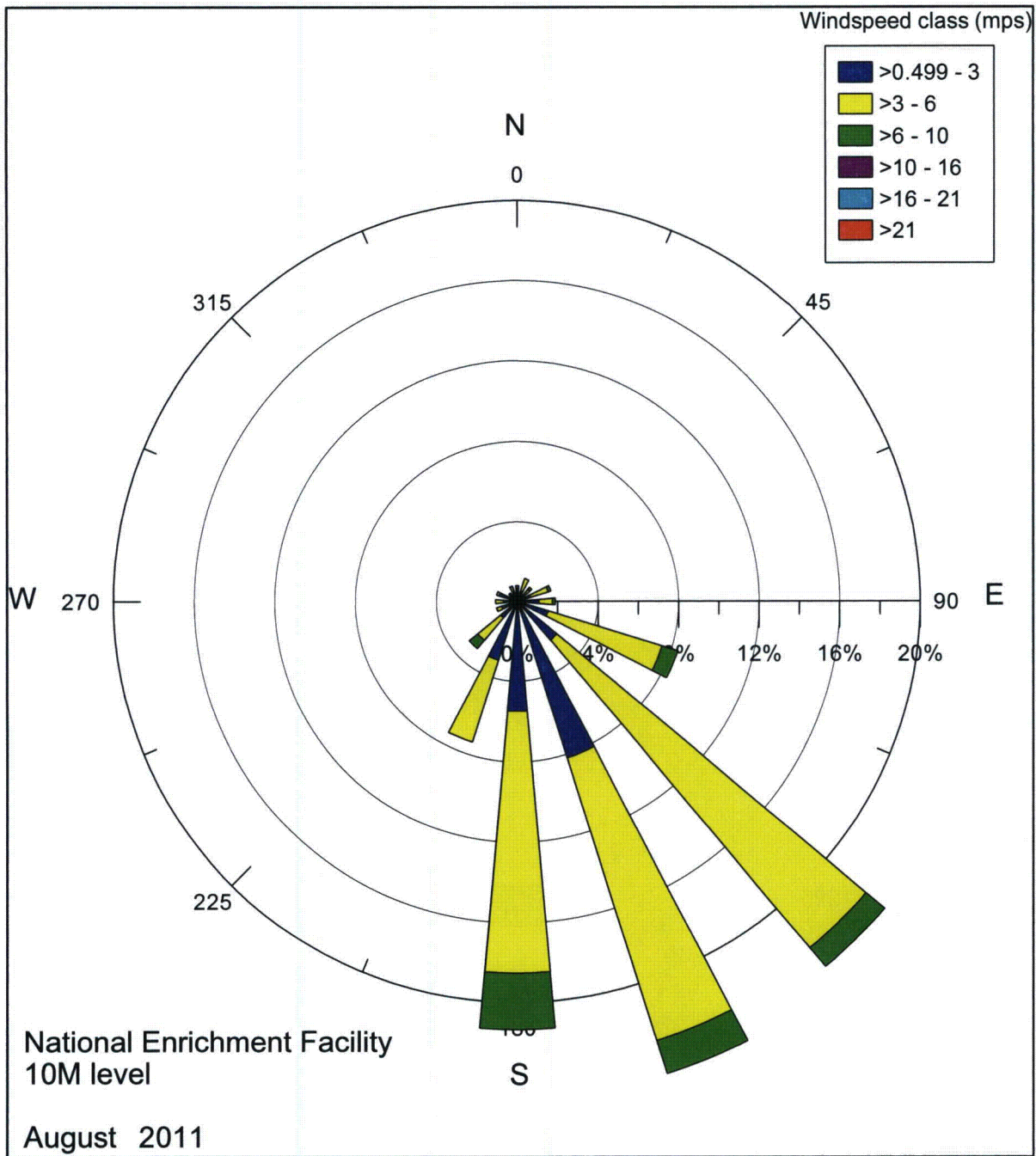
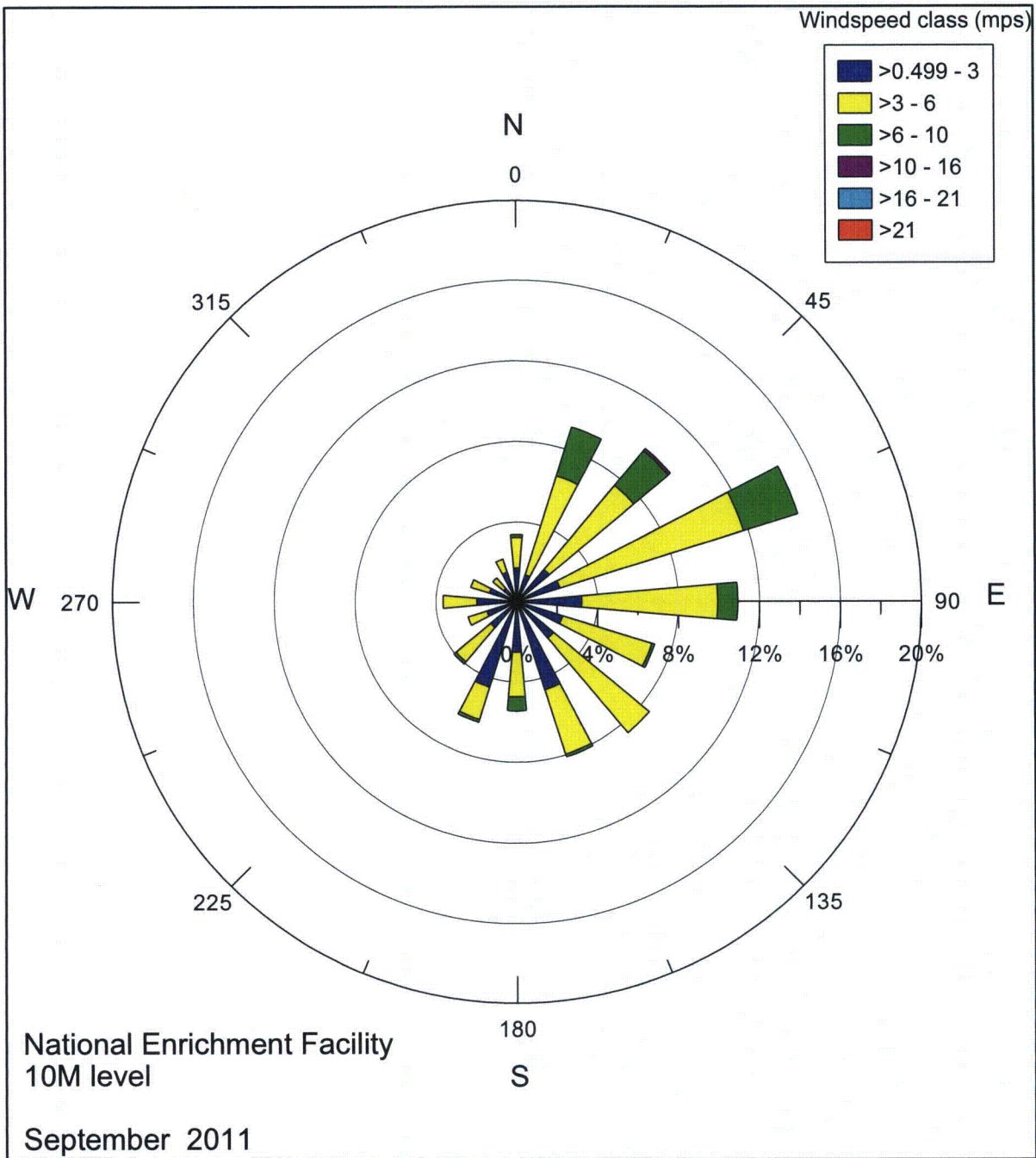


Figure 2.2 10-Meter Level Wind Rose, August 2011.



**Figure 2.3 10-Meter Level Wind Rose, September 2011.**

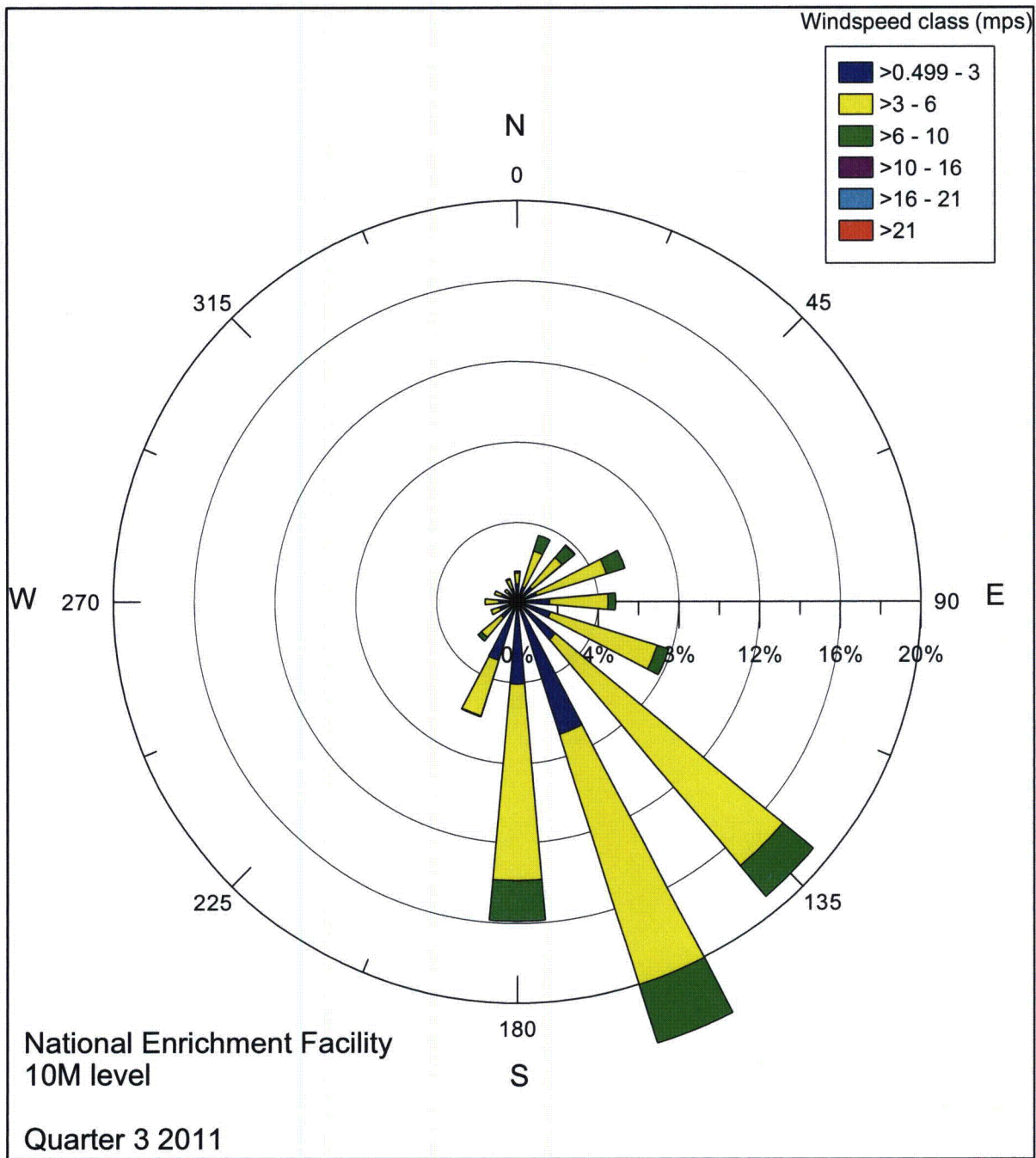
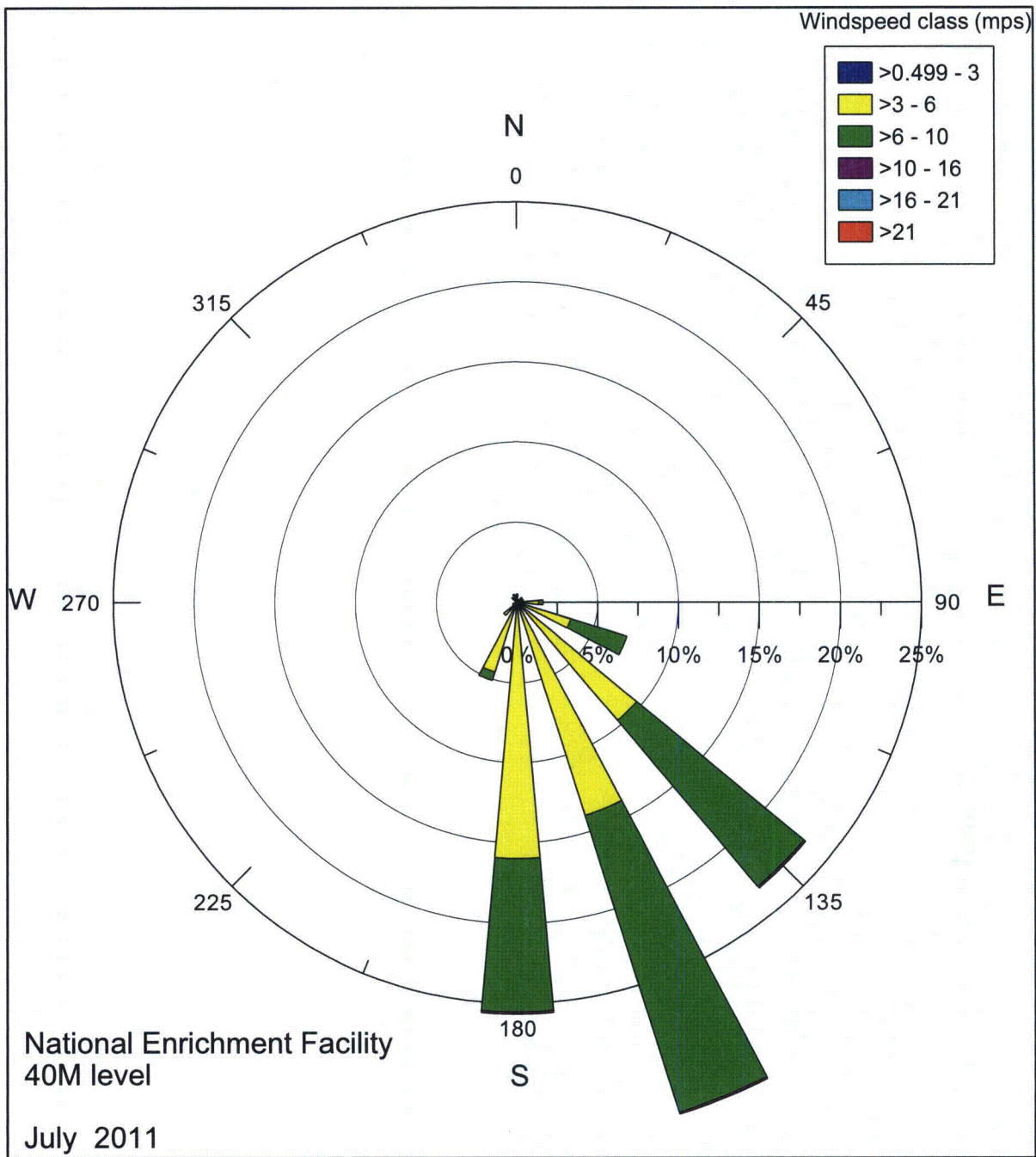
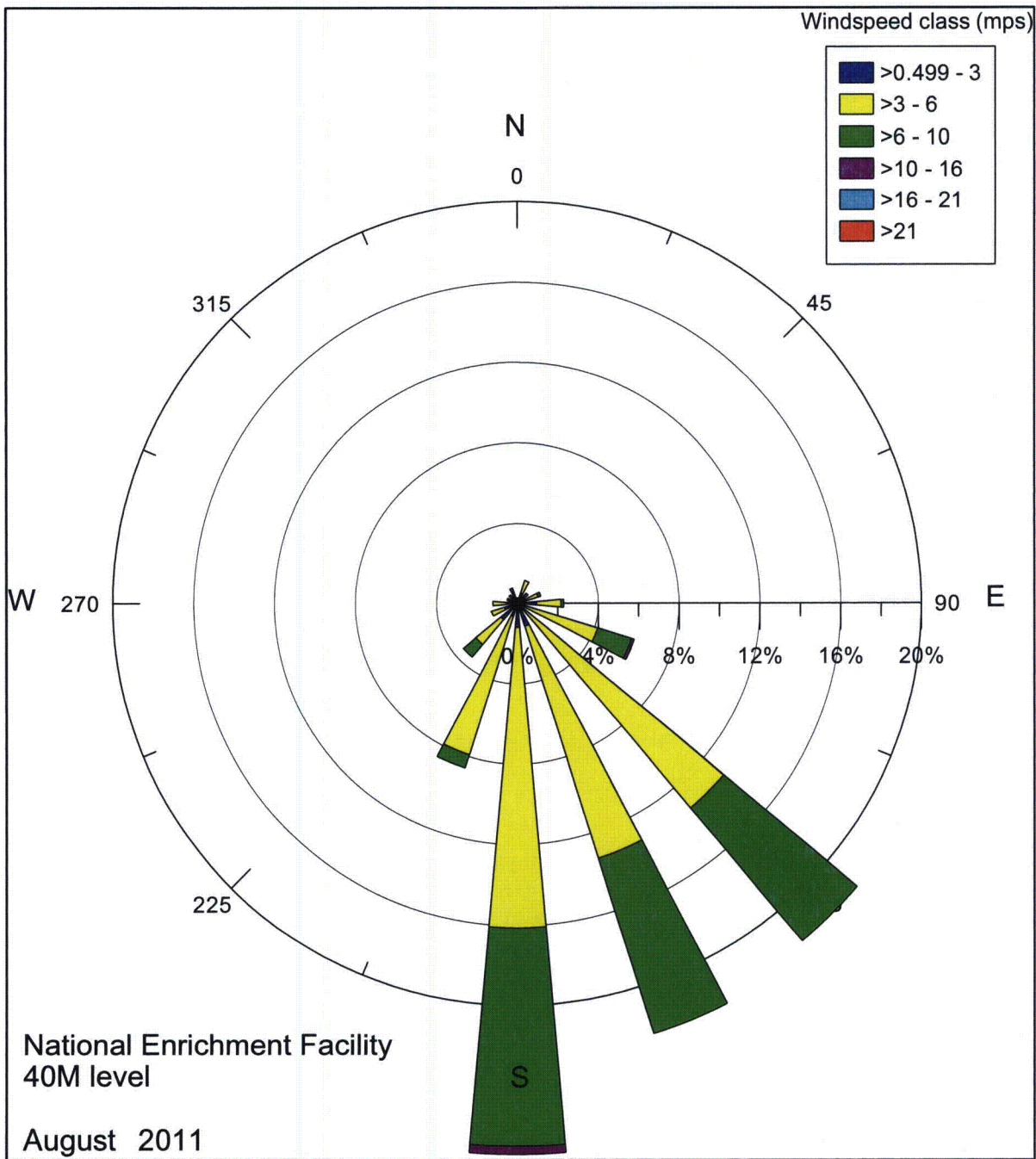


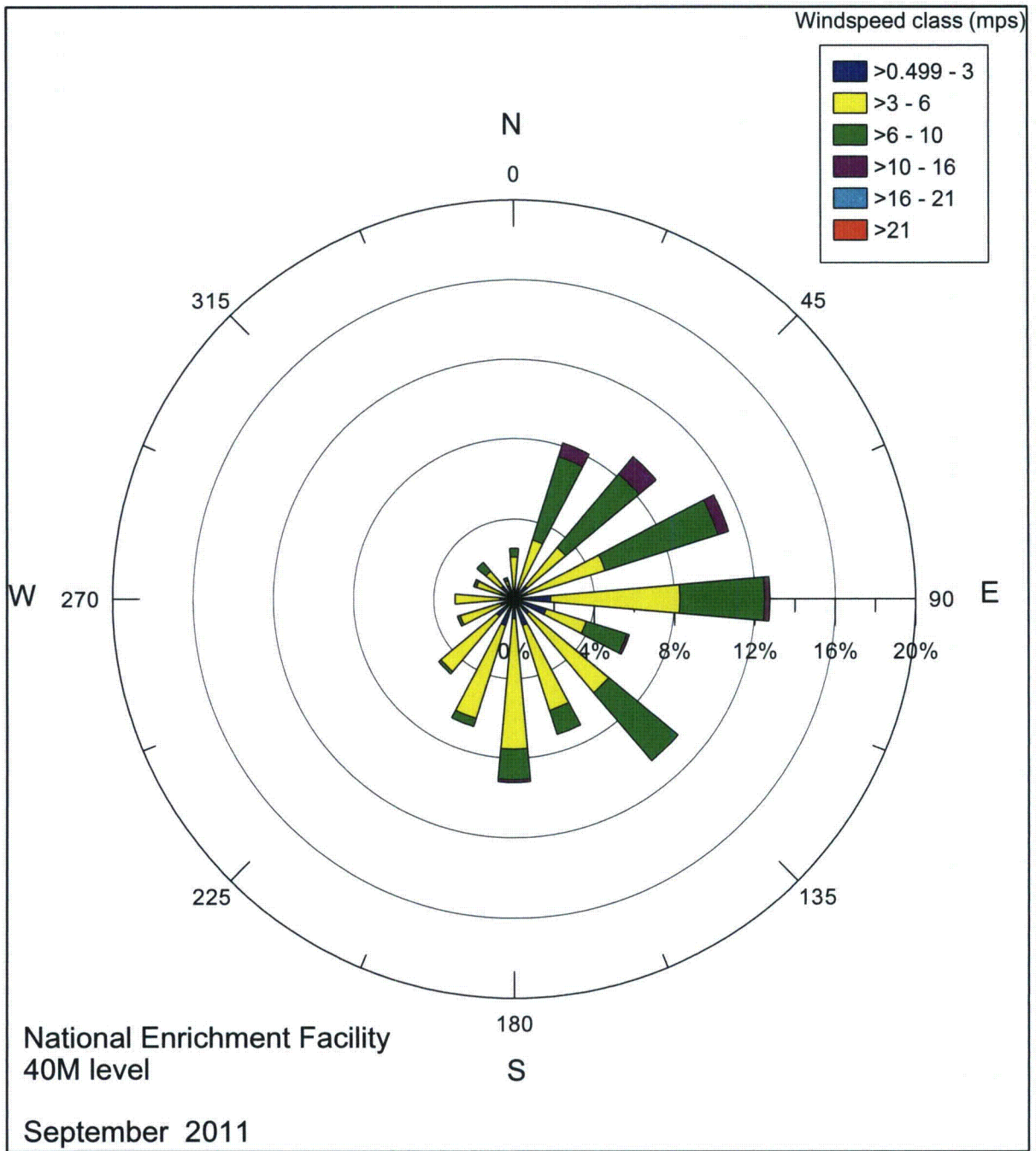
Figure 2.4 10-Meter Level Wind Rose, Third Quarter (July through September) 2011.



**Figure 2.5 40-Meter Level Wind Rose, July 2011.**



**Figure 2.6 40-Meter Level Wind Rose, August 2011.**



**Figure 2.7 40-Meter Level Wind Rose, September 2011.**

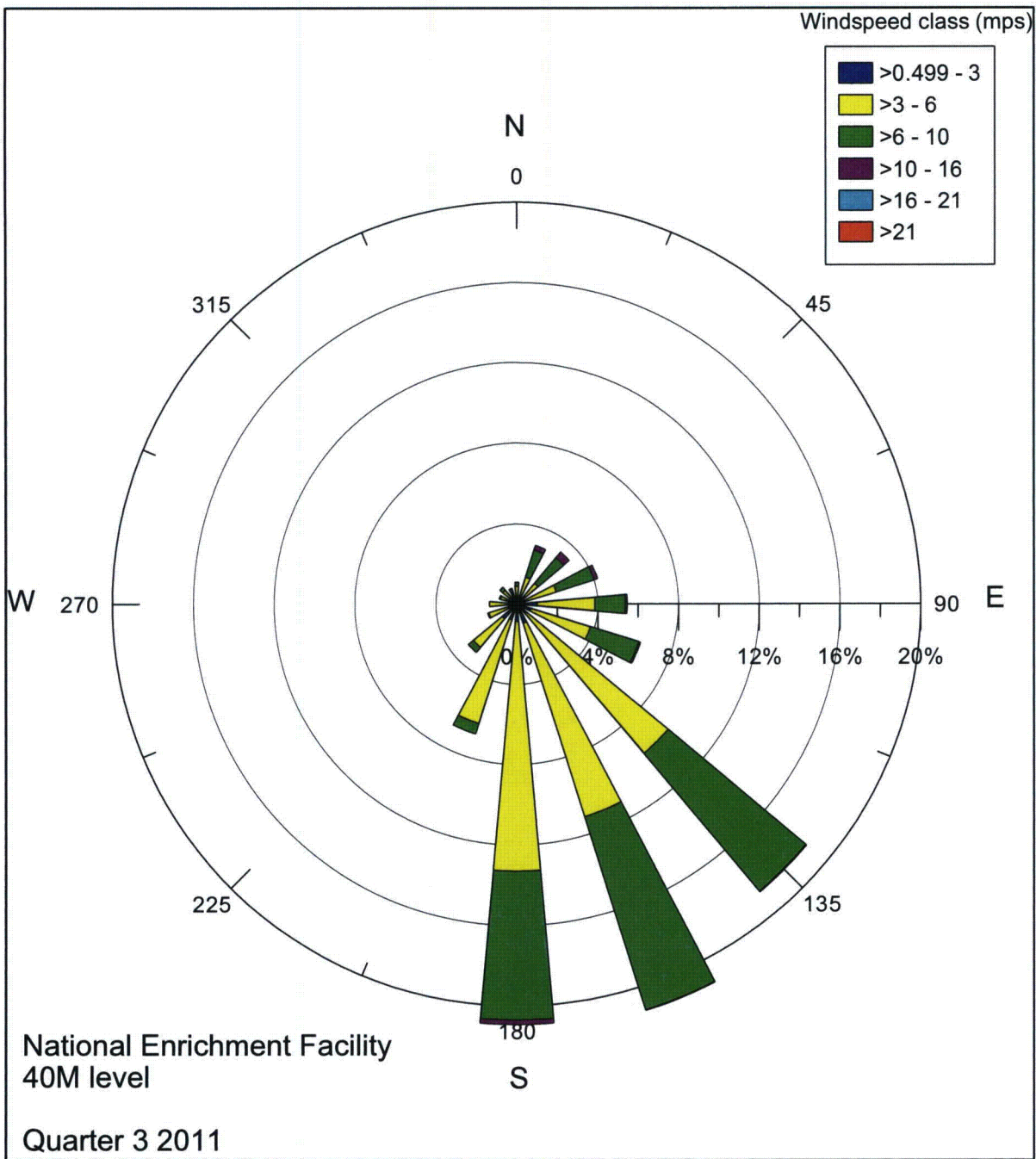


Figure 2.8 40-Meter Level Wind Rose, Third Quarter (July through September) 2011.

### 2.1.2 Wind Gust

The peak wind gust during the third quarter was 22.4 mps (50.1 mph) at the 40-meter level occurring on July 13 at 19:00. Wind gust information is presented in Table 2-1 and in Appendix B.

**Table 2-1**

**Wind Gust Summary in Meters Per Second for July through September 2011**

Month	Level (m)	Monthly Mean	Minimum Hour	Maximum Hour
July	10	7.9	0.7	18.7
	40	9.3	2.5	22.4
August	10	7.1	1.3	15.8
	40	8.5	2.5	17.6
September	10	6.8	1.2	17.8
	40	8.3	1.4	20.1

### 2.1.3 Temperature

Temperature is measured at the 10- and 40-meter levels. The ambient daily mean temperatures for July through September at the 10- and 40-meter levels ranged from a low of 15.2 degrees Centigrade (°C) at the 40-meter level to a high of 32.4°C at the 10-meter level. The hourly minimum ranged from 12.9°C at the 40-meter level to 20.6°C at both the 10- and 40-meter levels. Hourly maximum temperatures ranged from 34.3°C at the 40-meter level to 38.6°C at the 10-meter level. Hourly averages of the temperature data by level for July through September are presented in Appendix C. Temperature data for the period are summarized in Table 2-2.



**Table 2-2**

**Summary of Temperature in Degrees Centigrade (°C) for July through September 2011**

Month	Level (m)	Monthly Mean	Maximum Daily Mean	Minimum Daily Mean	Maximum Hour	Minimum Hour
July	10	29.4	31.3	27.3	36.8	20.6
	40	29.3	31.2	26.9	36.2	20.6
August	10	30.2	32.4	26.0	38.6	20.2
	40	30.1	32.1	25.8	38.0	21.3
September	10	23.5	29.0	15.5	35.0	13.0
	40	23.8	29.1	15.2	34.3	12.9

**2.1.4 Vertical Temperature Difference**

Vertical temperature difference is calculated between the 40 and 10-meter levels. Table 2-3 presents the monthly mean, maximum and minimum delta temperatures for the two levels in °C. Vertical temperature difference data are also presented in Appendix C.

**Table 2-3**

**Summary of Delta-Temperature in Degrees Centigrade (°C) for July through September 2011**

Month	Level	Monthly Mean	Monthly Maximum	Monthly Minimum
July	40-10 meter	-0.1	2.9	-1.1
August	40-10 meter	0.0	3.2	-1.0
September	40-10 meter	0.3	4.3	-1.3

### 2.1.5 Atmospheric Stability

Pasquill-Gifford (P-G) stability classes were computed using the vertical temperature difference ( $\Delta T$ ) because it is an effective indicator for the worst-case stability conditions (e.g., P-G stability classes E, F, and G). Pasquill-Gifford stabilities were computed based on Table 1.0 of the Nuclear Regulatory Commission Regulatory Guide 1.23 (Safety Guide 23) which is reproduced in Table 2-4. The stability class data for July through September, based on vertical temperature difference, are summarized in Table 2-5 and Appendix C.

**Table 2-4**  
**Classification of Atmospheric Stability**

Stability Classification	Pasquill Stability Category	Ambient Temperature Change with Height ( $^{\circ}\text{C}/100\text{m}$ )
Extremely unstable	A	$\Delta T \leq -1.9$
Moderately unstable	B	$-1.9 < \Delta T \leq -1.7$
Slightly unstable	C	$-1.7 < \Delta T \leq -1.5$
Neutral	D	$-1.5 < \Delta T \leq -0.5$
Slightly stable	E	$-0.5 < \Delta T \leq 1.5$
Moderately stable	F	$1.5 < \Delta T \leq 4.0$
Extremely stable	G	$\Delta T > 4.0$

**Table 2-5**  
**Summary of Atmospheric Stability Based on Vertical Temperature Difference in Percent for July through September 2011**

Month	Stability Class						
	A	B	C	D	E	F	G
July	36.6	4.2	3.2	12.1	19.6	18.8	5.5
August	32.8	4.4	3.6	11.2	19.1	22.6	6.3
September	26.8	5.5	2.9	14.3	12.0	17.6	20.9

### 2.1.6 Relative Humidity

Table 2-6 presents the monthly means, maximum and minimum relative humidity information for July through September. Relative humidity data are presented in Appendix D.

**Table 2-6**

**Summary of Relative Humidity in Percent for July through September 2011**

<b>Month</b>	<b>Monthly Mean</b>	<b>Daily Mean Maximum</b>	<b>Daily Mean Minimum</b>	<b>Monthly Maximum</b>	<b>Monthly Minimum</b>
July	35	51	24	84	13
August	32	51	19	77	11
September	37	89	14	94	6

### 2.1.7 Solar Radiation

Solar radiation data July through September are summarized in Table 2-7 and are presented in Appendix E. The statistics for the solar radiation data presented in Table 2-7 are based on daylight hours.

**Table 2-7**

**Solar Radiation Data in Watts Per Meter Squared (W/m<sup>2</sup>) for July through September 2011**

<b>Month</b>	<b>Monthly Mean</b>	<b>Maximum Daily Total</b>	<b>Minimum Daily Total</b>	<b>Maximum Hour</b>
July	556	8813	5782	1061
August	523	8517	4377	1076
September	478	7582	1933	995

### 2.1.8 Barometric Pressure

Barometric pressure data for July through September are presented in Table 2-8 and in Appendix F.

Table 2-8

#### Barometric Pressure Data in Millibars (mb) for July through September 2011

Month	Monthly Mean	Maximum Daily Mean	Minimum Daily Mean	Maximum Hour	Minimum Hour
July	897	902	894	904	892
August	897	901	893	903	890
September	900	906	894	908	892

### 2.1.9 Precipitation

For July through September, 2.46 inches of precipitation were measured at the site. The precipitation data are summarized in Table 2-9 and are presented in Appendix G.

Table 2-9

#### Summary of Precipitation in Inches for July through September 2011

Month	Monthly Total	Maximum Daily Total	Maximum Hourly Total
July	0.31	0.17	0.15
August	0.00	0.00	0.00
September	2.15	1.33	0.48

### 2.2 Data Recovery

Data recoveries for the meteorological parameters, in percent possible for July through September are provided in Table 2-10.

**Table 2-10**

**Meteorological Measurement Data Recovery in Percent for July through September 2011**

Month	Level (m)	Wind Speed	Wind Direction	Wind Gust	Temp.	Vertical Temp. Diff.	Relative Humidity	Solar Radiation	Bar. Pressure	Precip.
July	1.0	NA	NA	NA	NA	NA	NA	NA	NA	100
	1.5	NA	NA	NA	NA	NA	NA	NA	100	NA
	2.0	NA	NA	NA	NA	NA	NA	100	NA	NA
	10	100	100	100	100	NA	100	NA	NA	NA
	40	100	100	100	100	100	NA	NA	NA	NA
August	1.0	NA	NA	NA	NA	NA	NA	NA	NA	100
	1.5	NA	NA	NA	NA	NA	NA	NA	100	NA
	2.0	NA	NA	NA	NA	NA	NA	100	NA	NA
	10	100	100	100	100	NA	100	NA	NA	NA
	40	100	100	100	100	100	NA	NA	NA	NA
September	1.0	NA	NA	NA	NA	NA	NA	NA	NA	99.9
	1.5	NA	NA	NA	NA	NA	NA	NA	99.9	NA
	2.0	NA	NA	NA	NA	NA	NA	98.6	NA	NA
	10	99.2	99.2	99.2	99.2	NA	99.2	NA	NA	NA
	40	99.2	99.2	99.2	99.2	99.2	NA	NA	NA	NA

### **3.0 QUALITY CONTROL**

Meteorological data collected at NEF's monitoring station have been subjected to a series of quality control procedures to document the validity of the data and increase the integrity of the data sets. The quality control performed for these data is described in this section.

#### **3.1 Equipment Acceptance Testing**

Upon receipt, the meteorological equipment was acceptance tested in MSI's instrument laboratory prior to field deployment. All equipment installed met NRC specifications as outlined in Table 2 of NRC Regulatory Guide 1.23.

#### **3.2 Equipment Calibration**

Meteorological equipment calibrations are performed once sensors were interfaced with the data acquisition system at installation, at six-month intervals, when audits indicate the need, or when problems are identified. Sensors which do not meet NRC calibration specifications are replaced or repaired and re-calibrated. Calibrations were conducted on the meteorological sensors on September 29, 2011. The equipment used to calibrate the equipment is certified at least annually to A2LA or NIST standards. Copies of the meteorological equipment calibrations are presented in Appendix H.

#### **3.3 Visual Inspection of Equipment**

Visual inspection of the meteorological tower and sensors is performed at least every three months or more frequently when problems are indicated. Abnormal conditions are logged in MSI's logbook and reported immediately to the program manager for corrective action.

### 3.4 Remote Interrogation of the Monitoring Station

The data logger at the meteorological station is interrogated daily to download and process the data to maximize data recovery and to identify problems in a timely manner. Daily, a meteorologist or data specialist verifies that each sensor is operational and that it appears to be measuring data accurately. In addition, a password-protected project web-site is updated after every successful download is available to LES and MSI personnel. Any abnormal data values or apparent problems are reported immediately to the program manager or quality assurance officer who initiates corrective action and determines if a special visit to the site is required. Figures 3.1 and 3.2 present examples of the data displays from the web-site.

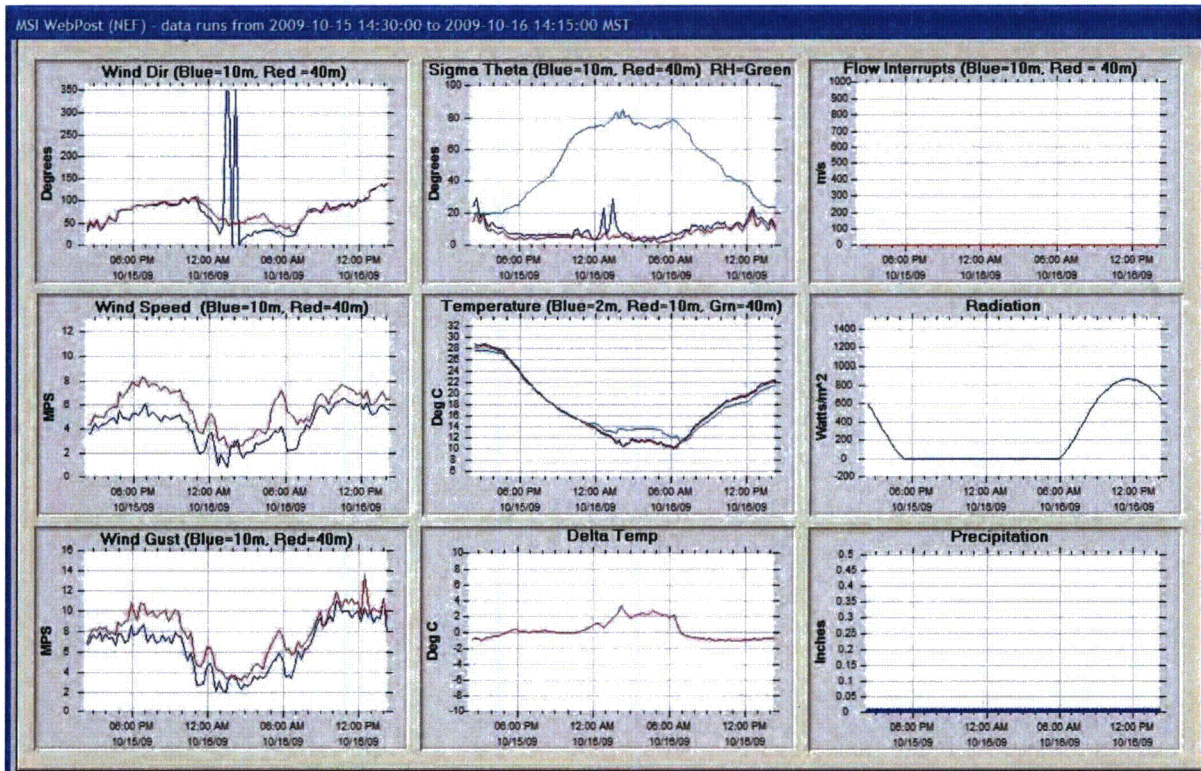


Figure 3.1 Example of Meteorological Strip Charts from Website

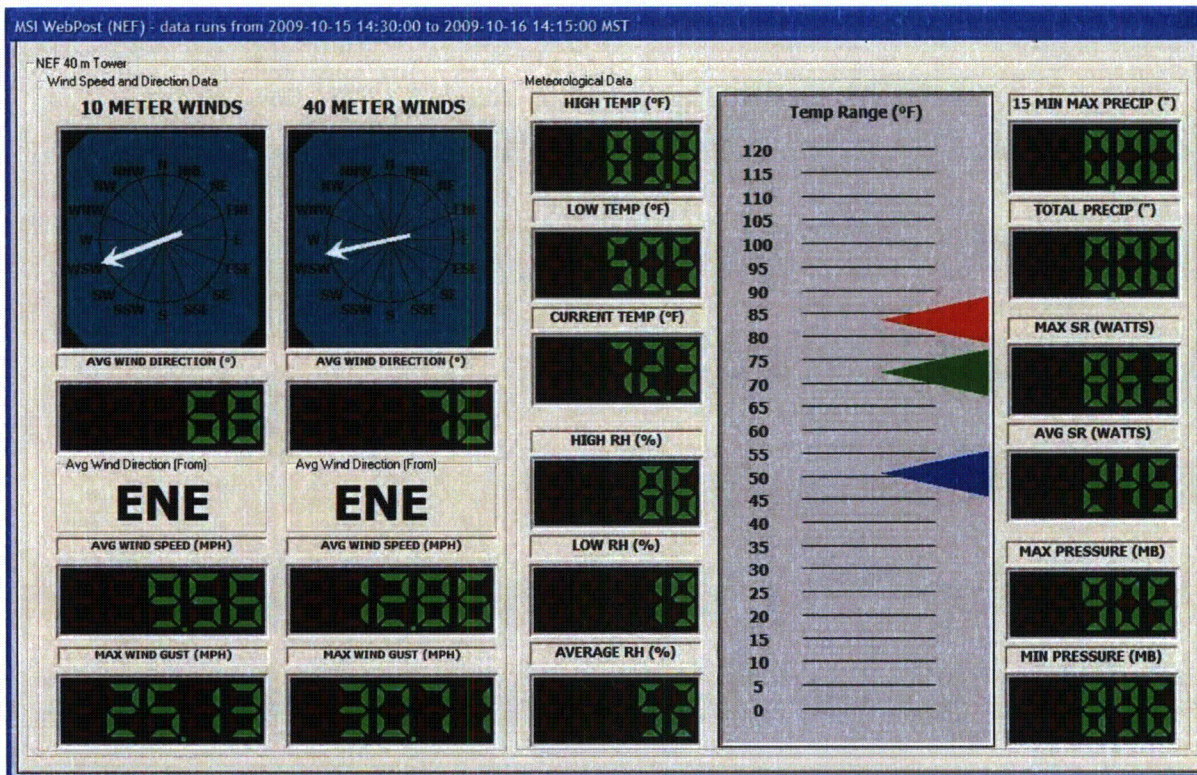


Figure 3.2 Example Wind Data Information from Website

### 3.5 Quality Control Checks for Data Validation

During data acquisition, the data logger collects and saves fifteen-minute averages of each measured parameter. The values are stored in memory for subsequent retrieval via telephone, modem, and Internet. After the site data logger is interrogated, collecting all data since the last interrogation, the data are stored on MSI computers in Salt Lake City. These data are then subjected to a series of quality tests using MSI's proprietary software. Example quality control (QC) tests used to generate flags and warnings that a parameter value is outside of a normally acceptable range are listed in Table 3-1.



**Table 3-1**

**Example Quality Control Checks Imposed by Data QC Program**

<b>Meteorological Data</b>
Wind speed > 25 m/s for a 15-minute average.
Temperature change exceeds 3EC in a 15-minute period.
Time increments greater than fifteen minutes between data records.
Ambient temperature exceeds 40EC.
Ambient temperature falls below -20EC.
Wind direction unchanged for three hours.
Wind speed unchanged for three hours.
Temperature unchanged for three hours.
Battery voltage <11 volts.
Change in pressure more than 2 millibars in 15 minutes.
Relative humidity > 100%.
Relative humidity < 5%.
Precipitation >0.15 inches in 15 minutes.

The QC program produces a report that identifies each value in the data file that fails one or more of the listed tests. This report also provides means, maxima and minima for each variable. In addition, stacked parameter plots are generated which consist of every data point downloaded and are reviewed by a qualified meteorologist for consistency and possible problems. This review by a qualified meteorologist assures that problems that might not be flagged by the software will always be caught by the reviewer. The quality control test reports for July through September 2011 are included in Appendix A.

### **3.6 Data Validation**

Various levels of data validation are performed. The initial level of data validation is essentially the raw data obtained directly from the data acquisition system in the field. These data are stored and are unedited and never manipulated. The next level of validation involves quantitative and qualitative reviews for accuracy, completeness, and internal consistency. This is performed by utilizing MSI's propriety QC program. When the QC program identifies values that exceed the criteria set for that parameter, the data file is inspected visually.

In most cases, a flagged value is not invalid; it merely fell outside of expected ranges or "normal" rates of change for that parameter. Qualitative checks are performed by a meteorologist who determines that if the value is reasonable, the value is not invalidated. If there is a reason to suspect the data point, the value is reset to "missing." (This is done on the data management file only, not on the raw data file collected from the data logger) For the purposes of this data report, data failures or discrepancies that would invalidate an hourly average for the meteorological site are listed below:

- loss of more than one 15-minute average in any 1-hour period; and
- visual evidence, on the stacked parameter/time plots for example, that the 15-minute value is an outlier.

Invalid data periods for the third quarter 2011 are presented in Table 3-2.

**Table 3-2**  
**Invalid Data Periods for Third Quarter 2011**

Parameter	Beginning		Ending		Reason	Result
	Date	Time	Date	Time		
10M & 40M wind dir., wind spd., wind gust, temp., $\Delta T$ ,	09/29/2011	10:00	09/29/2011	15:00	1	Set to missing
Solar radiation	09/29/2011	08:00	09/29/2011	16:00	1	Set to missing
Precip., bar. pressure	09/29/2011	110:00	09/29/2011	10:00	1	Set to missing

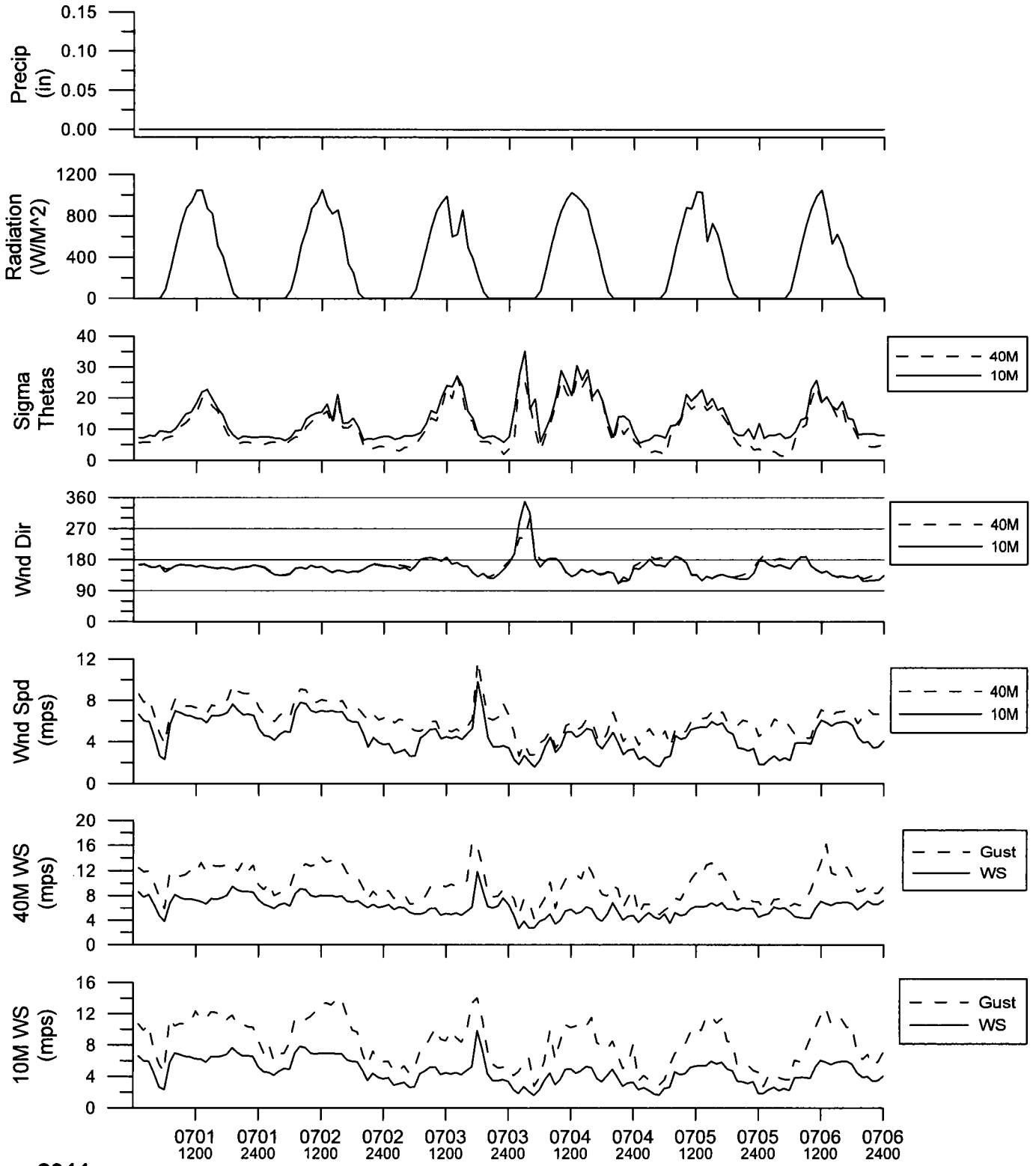
1. Calibration

#### **4.0 QUALITY ASSURANCE AUDITS**

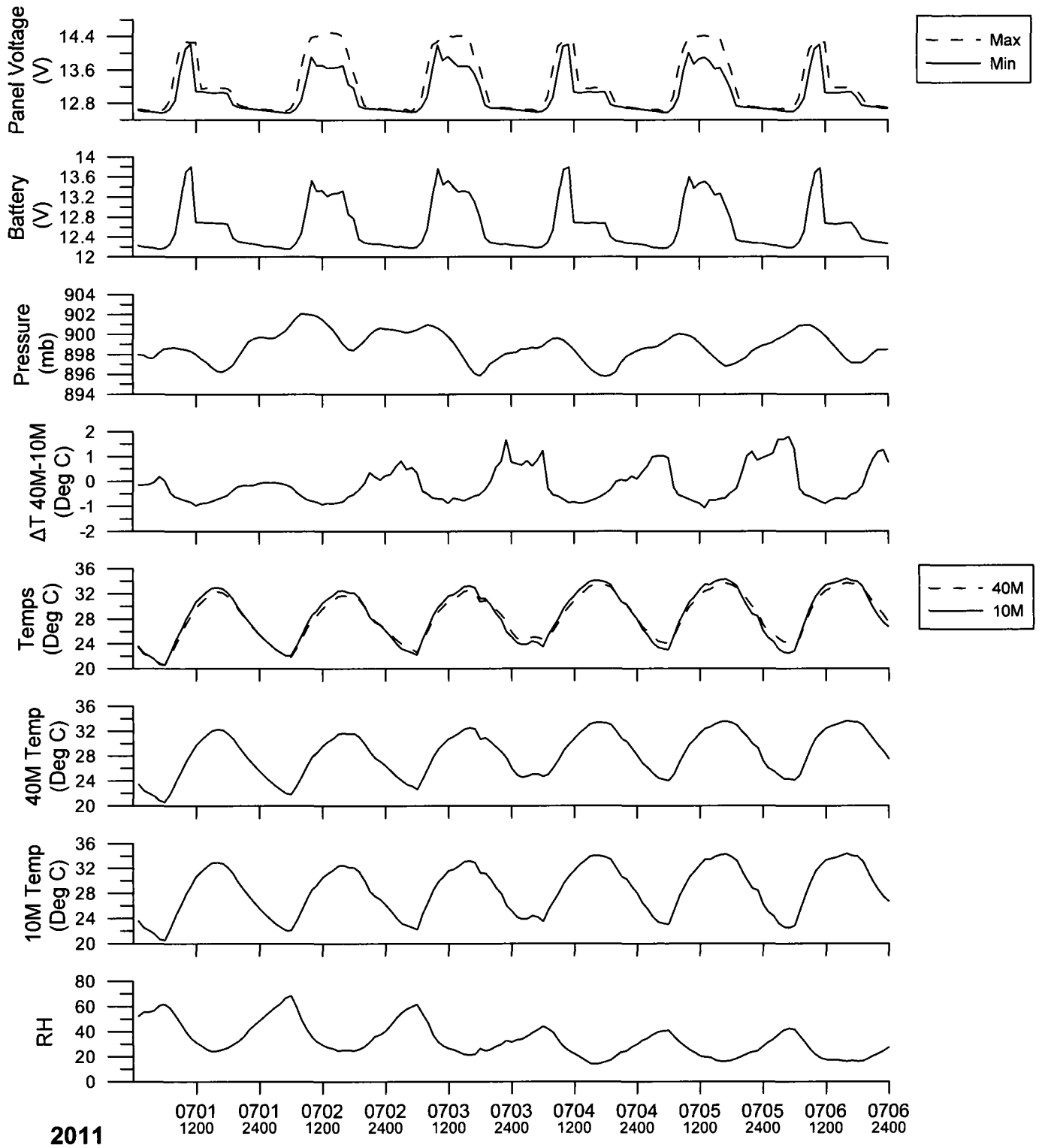
In order to comply with NRC requirements, a performance audit of meteorological instrumentation is conducted every six months or within 60 days after installation. Audit reference standards will be independent of those used for calibration checks.

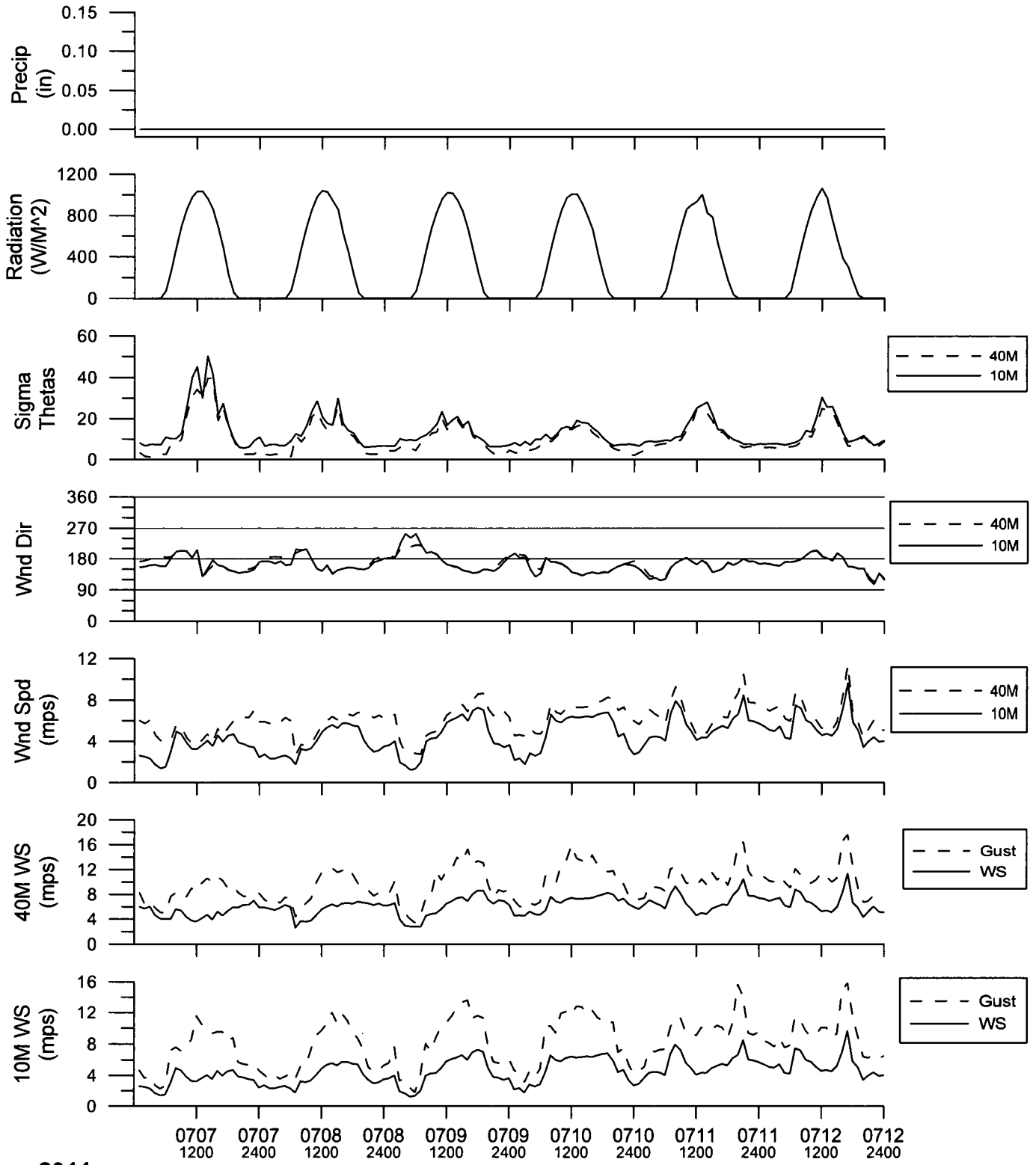
A performance audit of the meteorological sensors was conducted on June 23, 2011. Results of the audit were presented in a separate report.

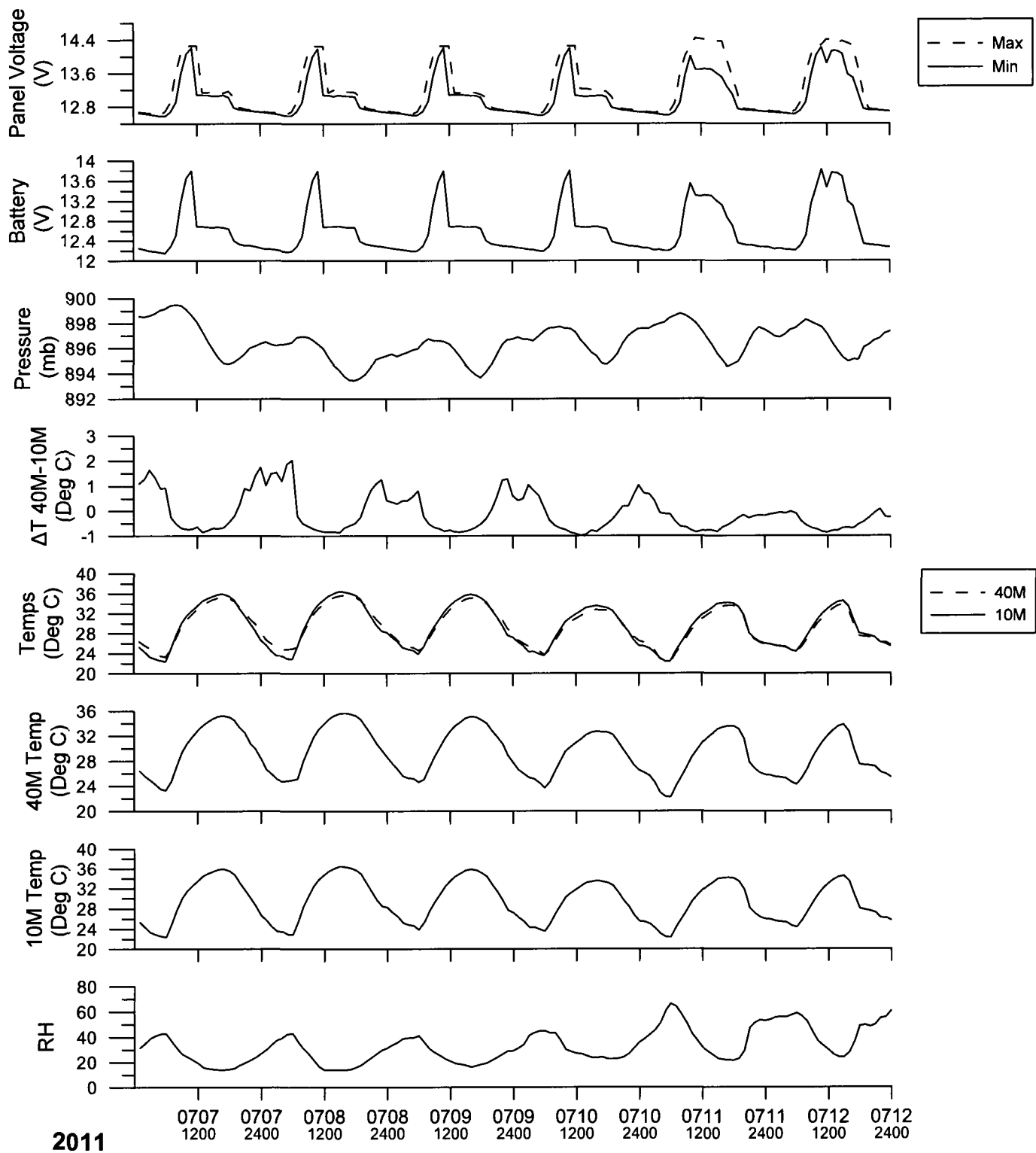
**Appendix A**  
**Stacked Parameter Plots for July through September 2011**



2011

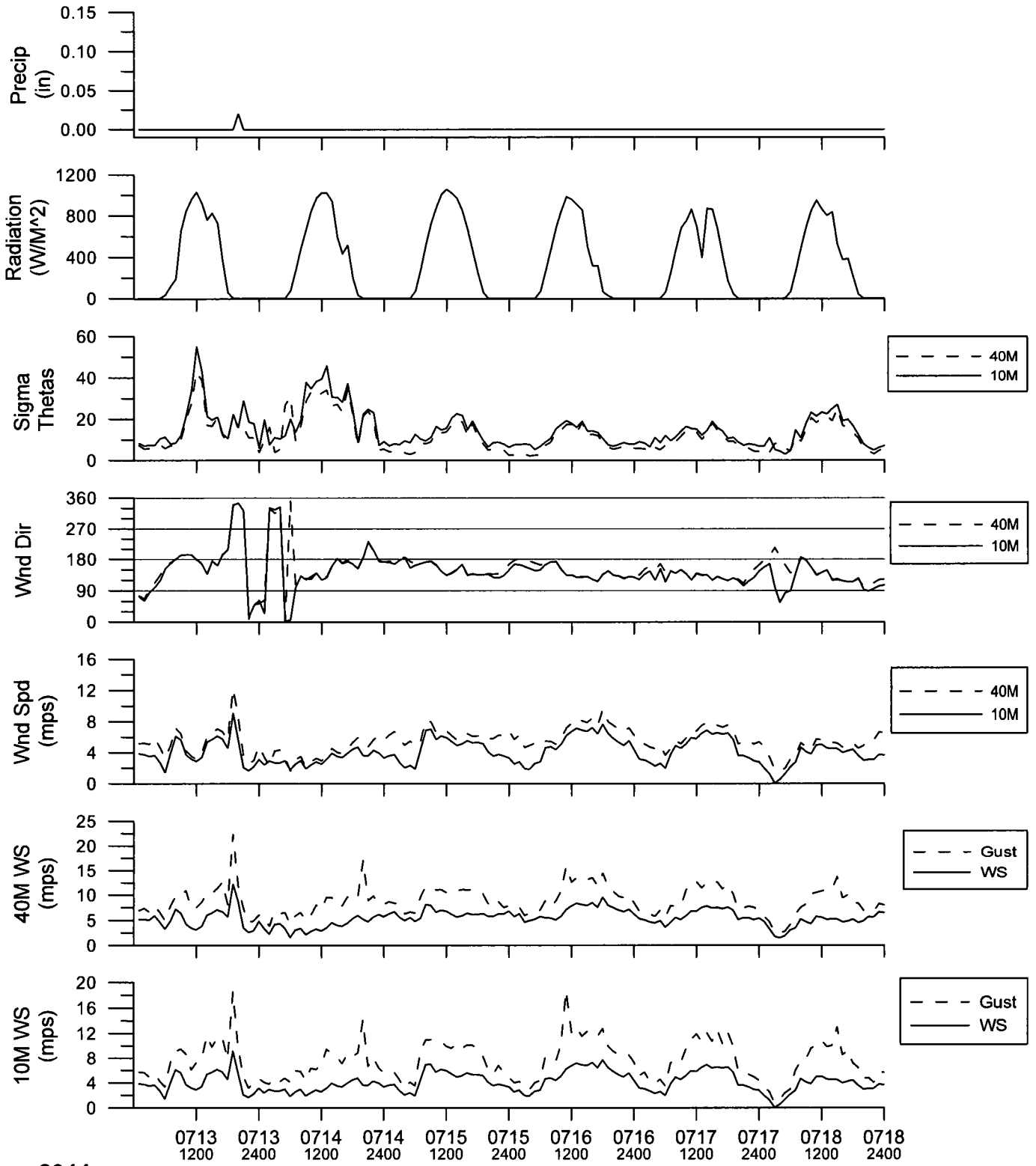




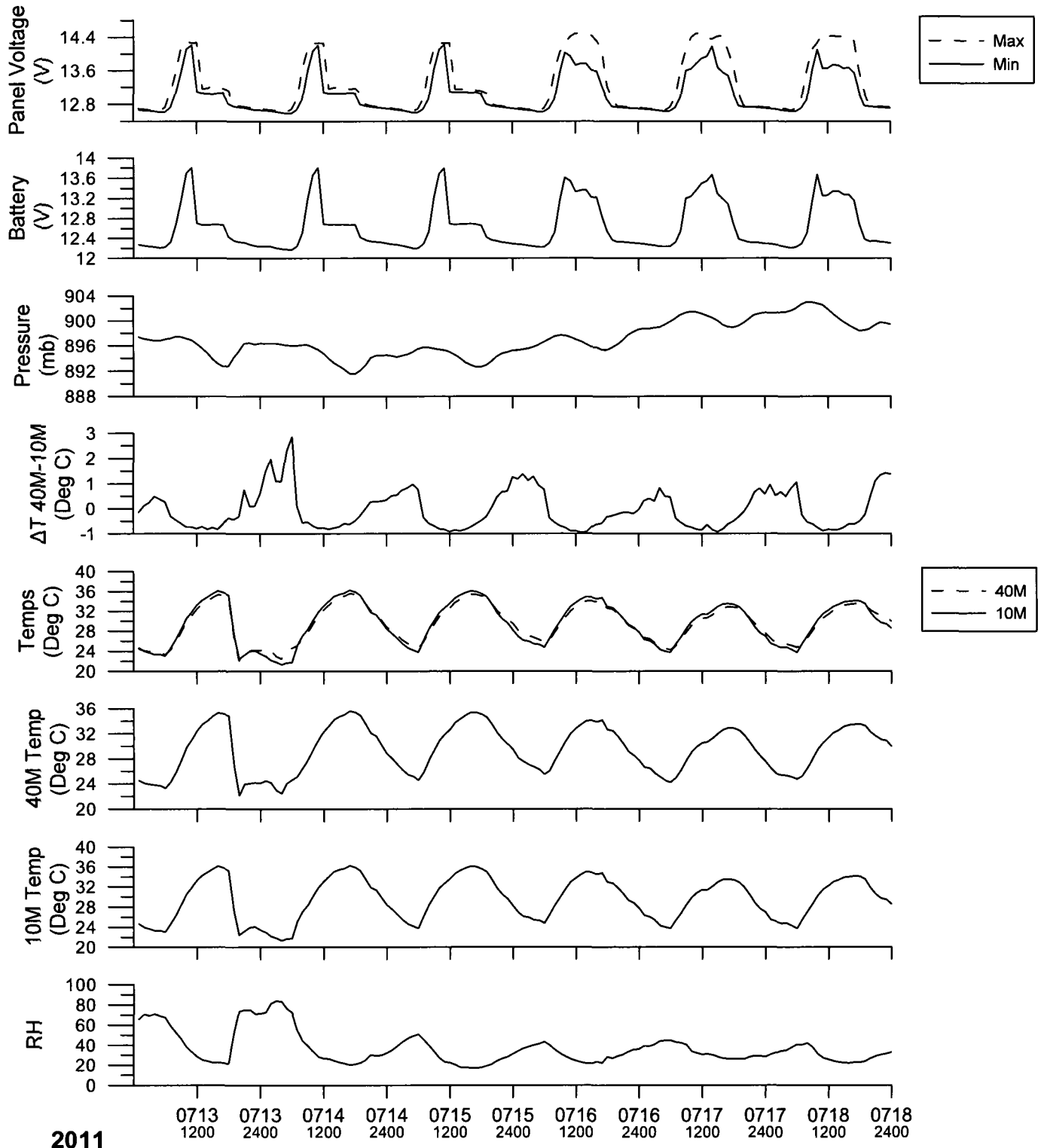


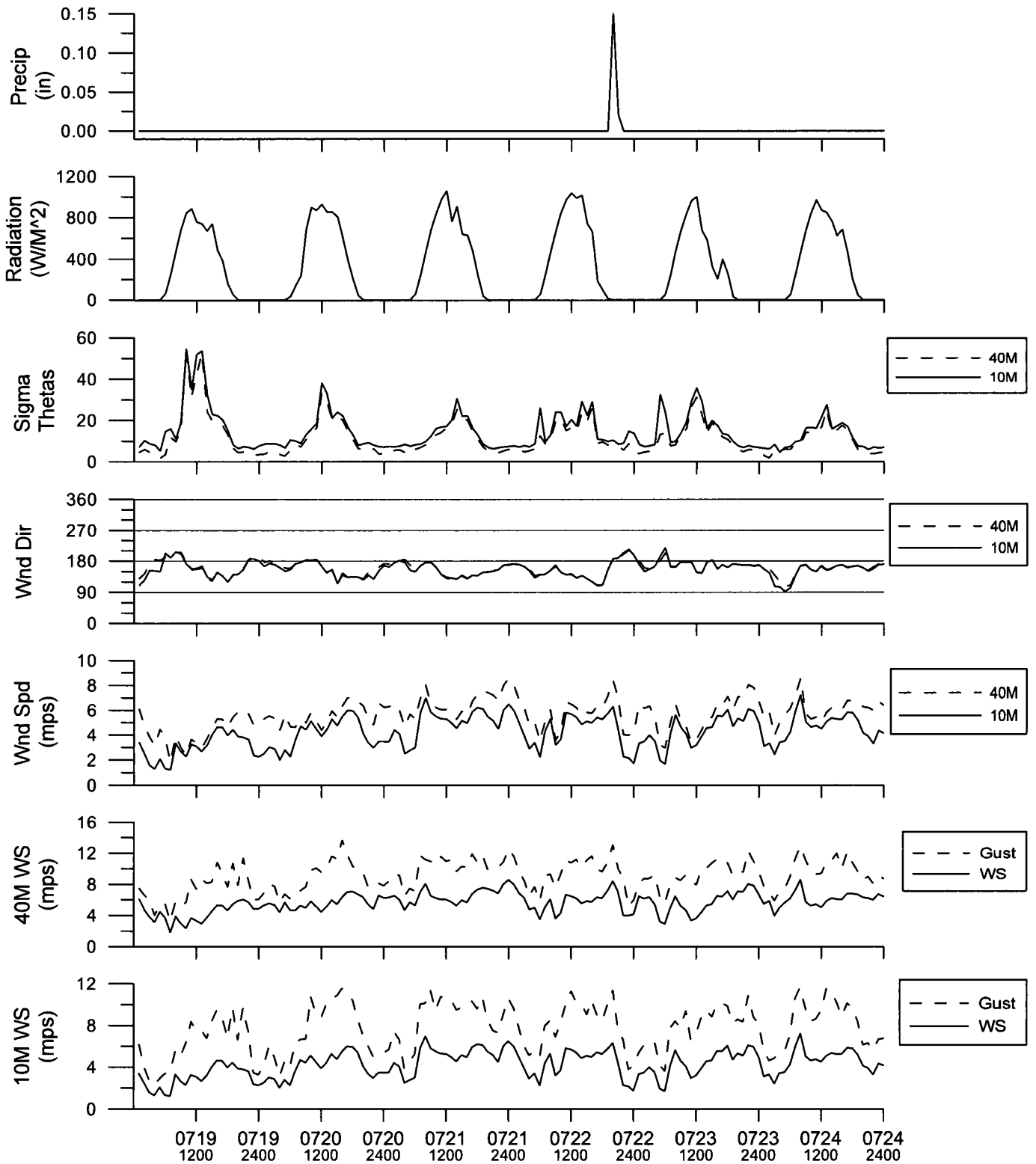
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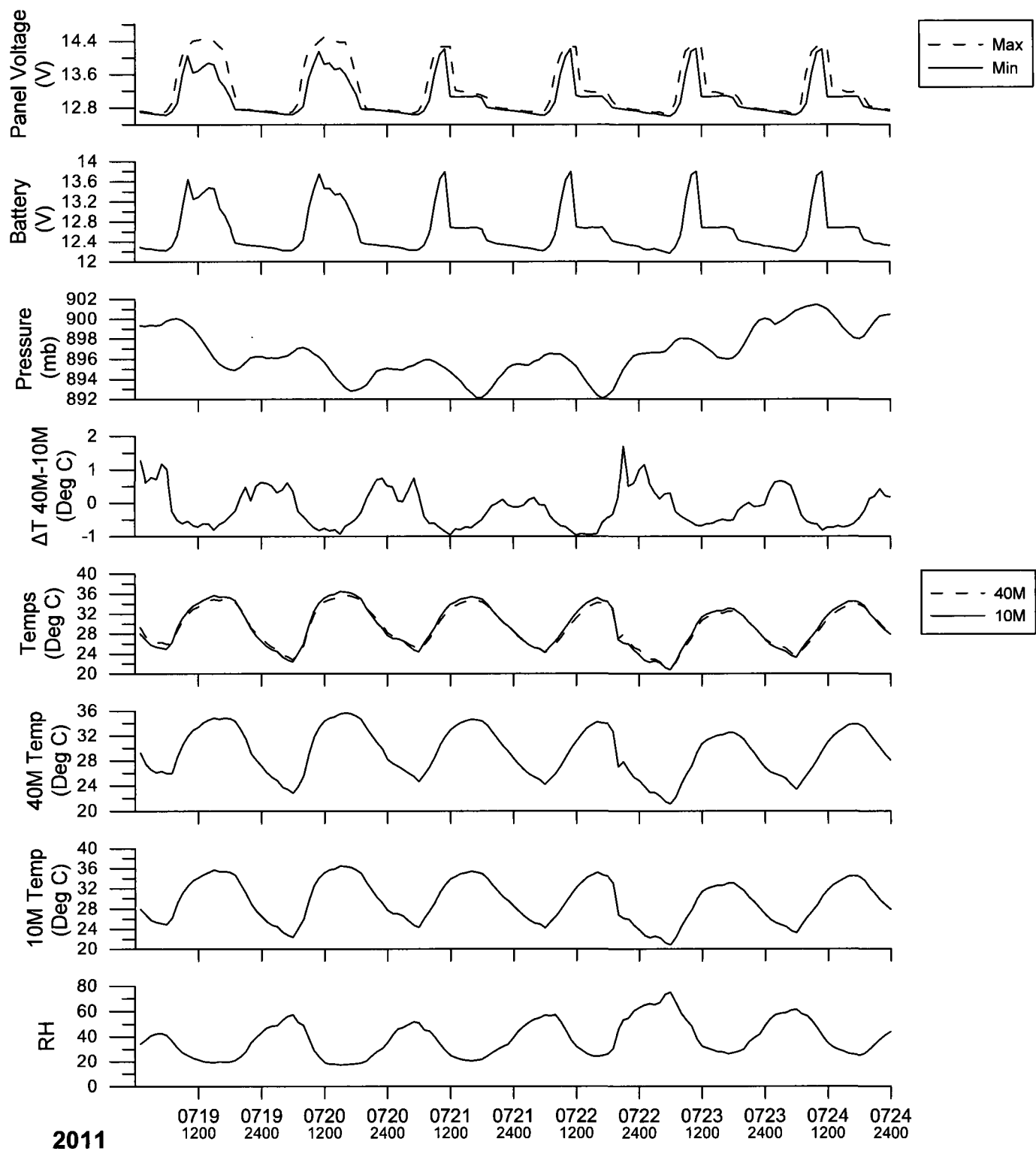


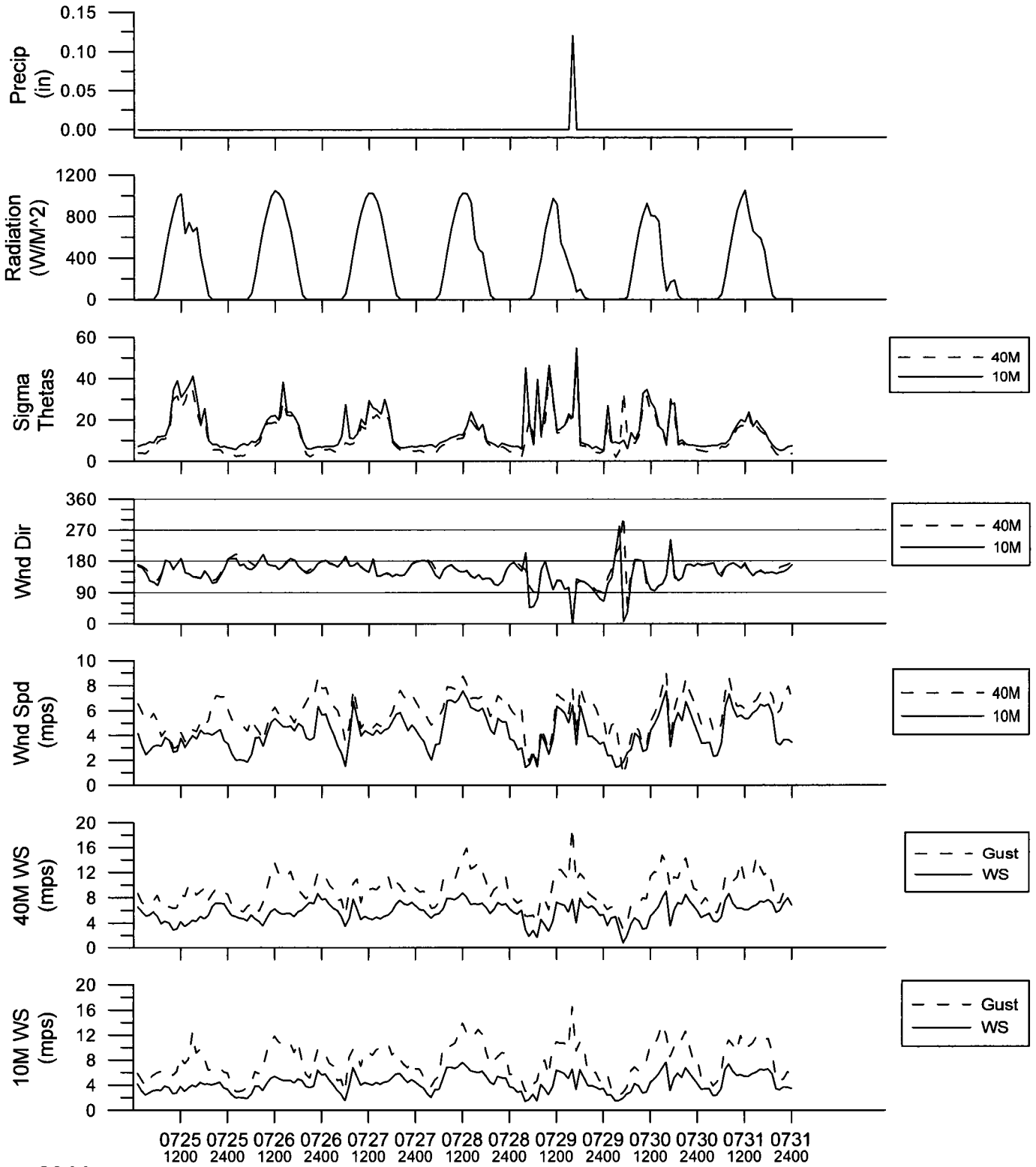
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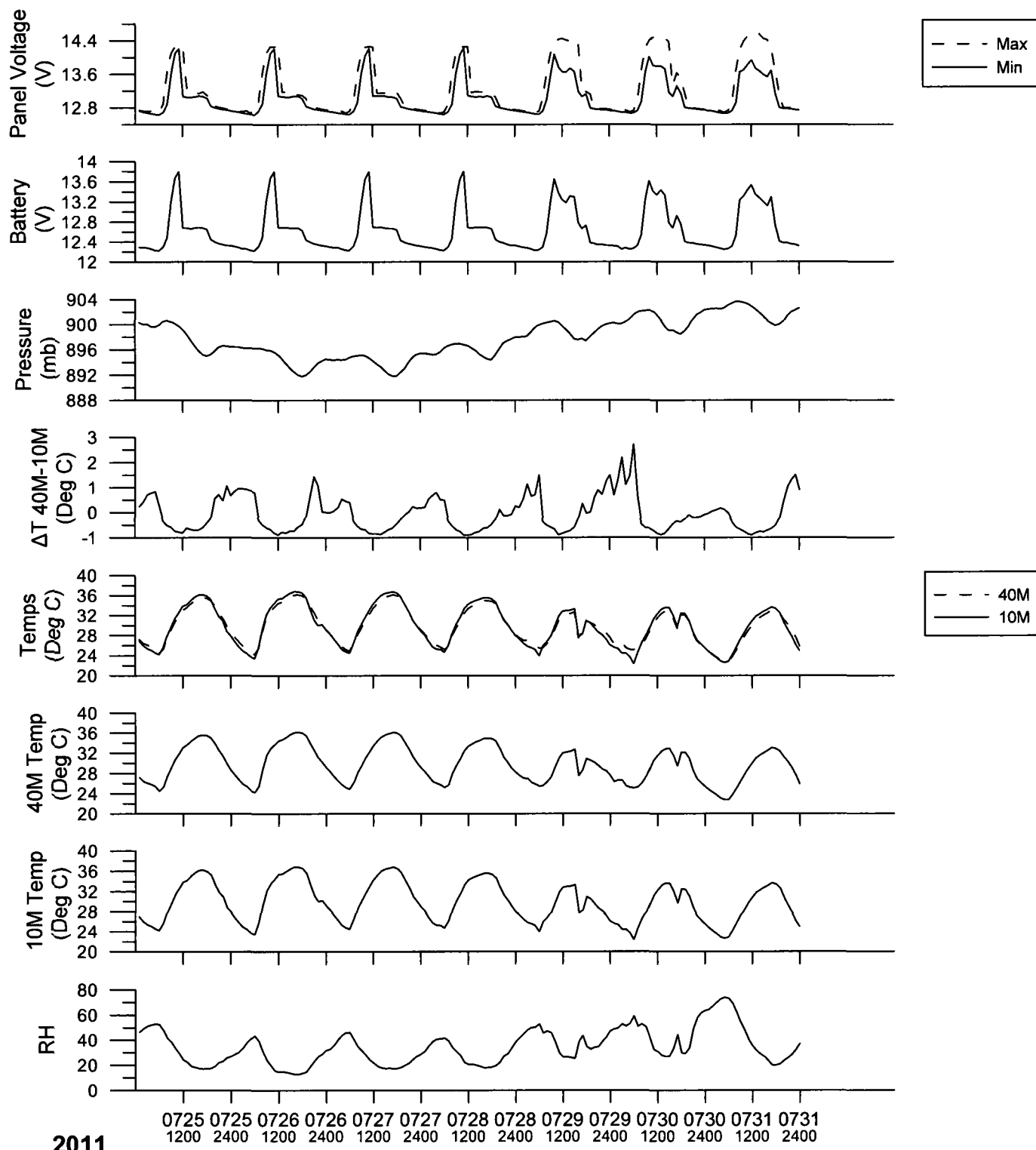


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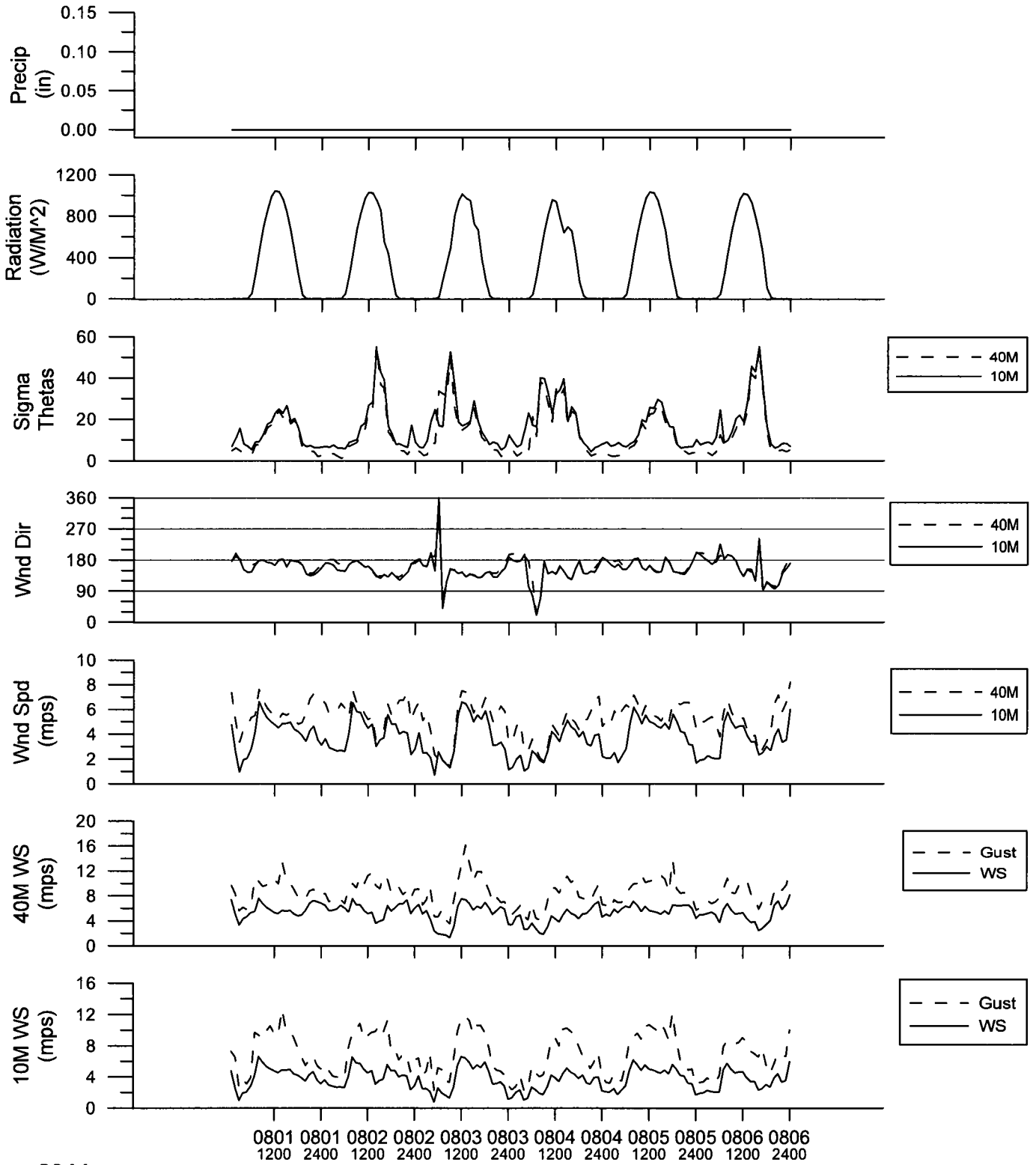




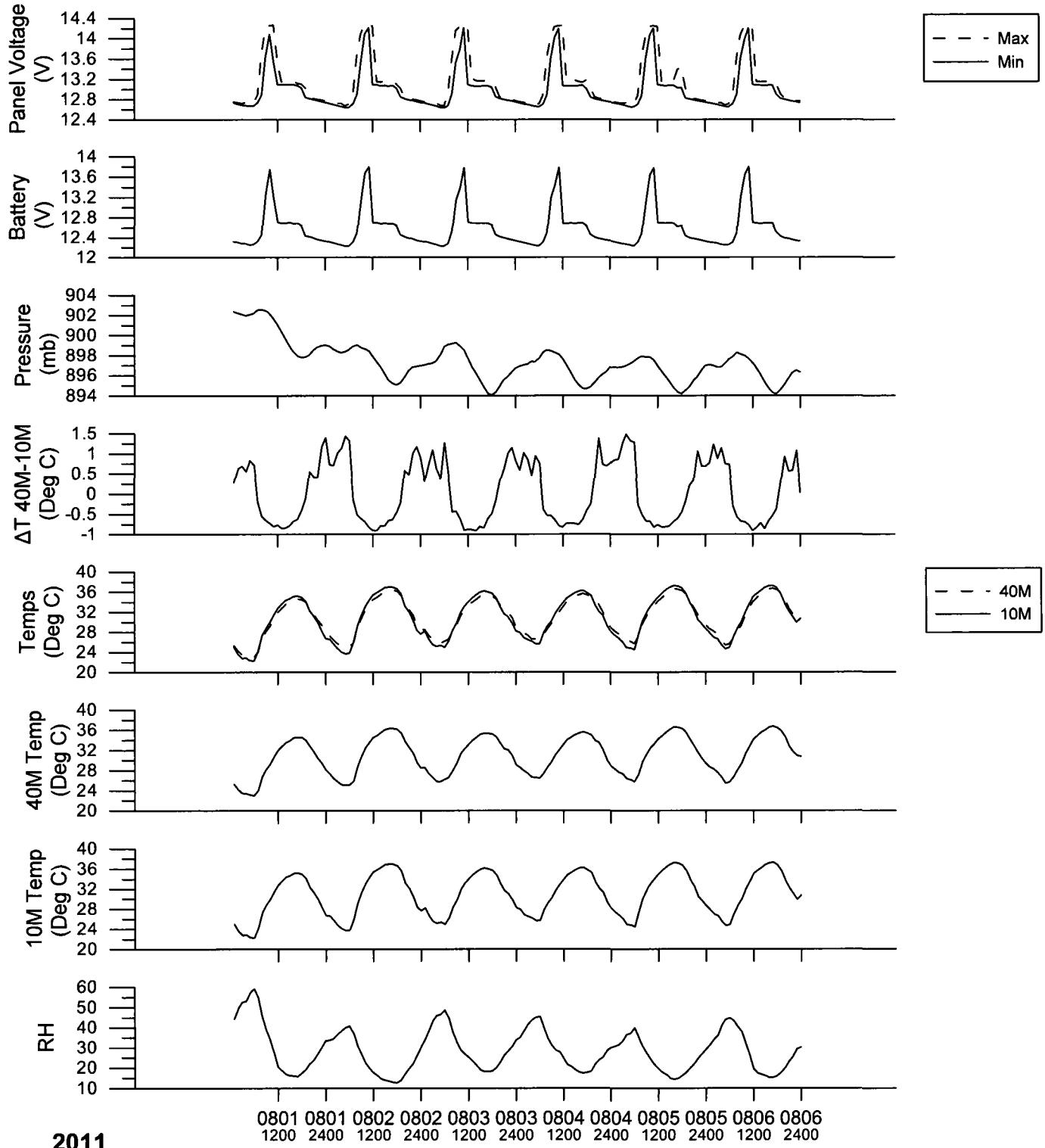
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2011

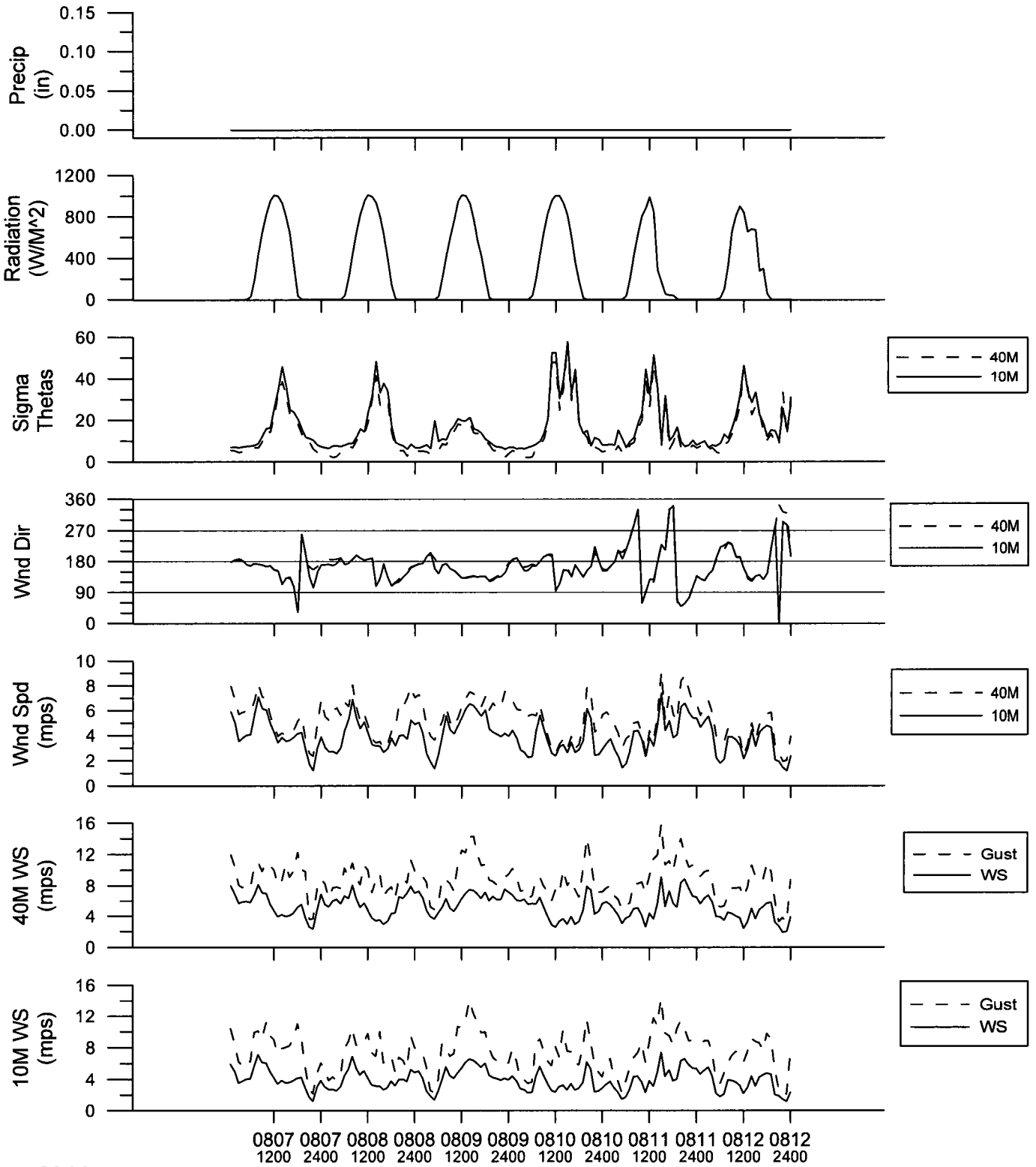


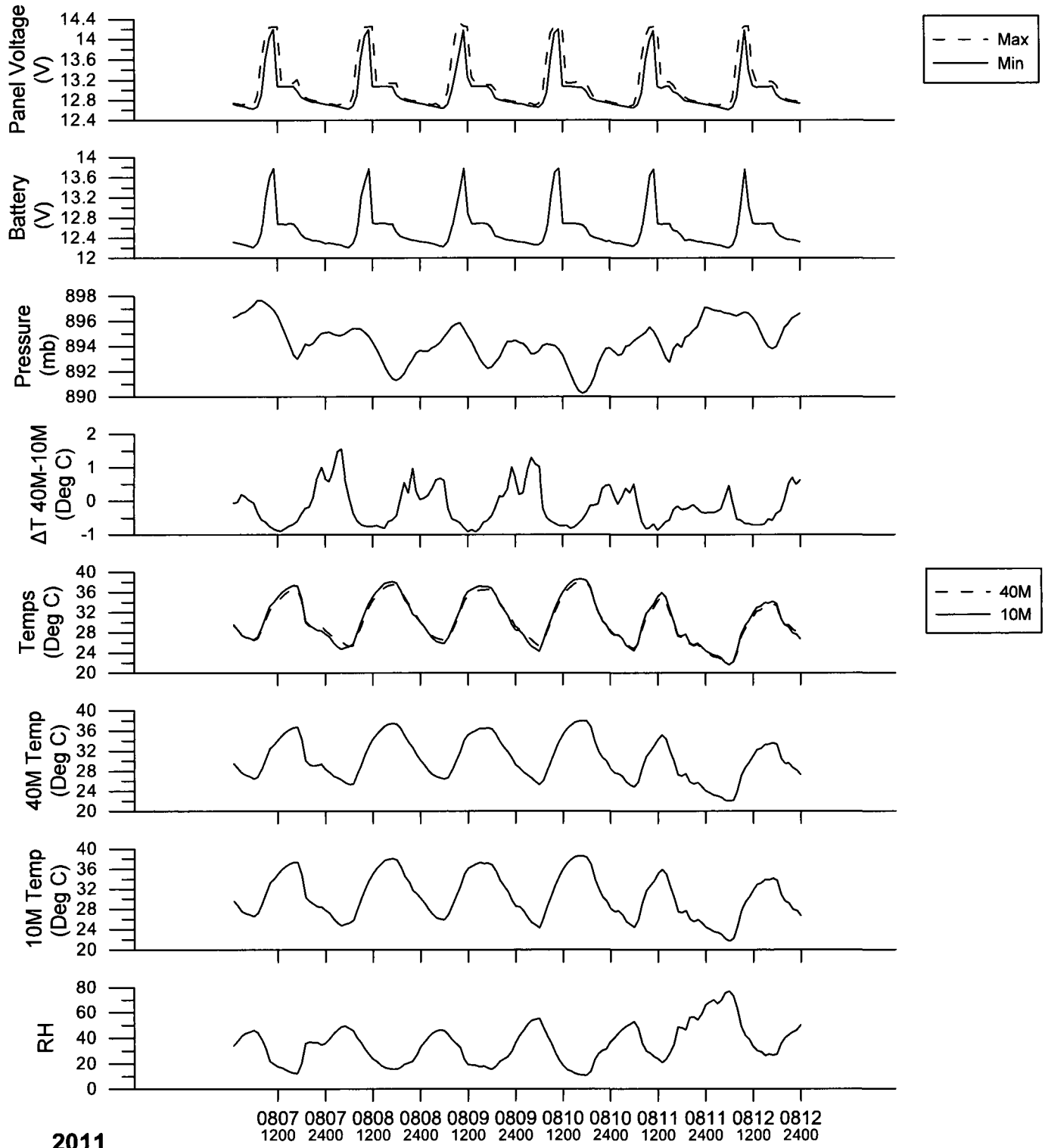
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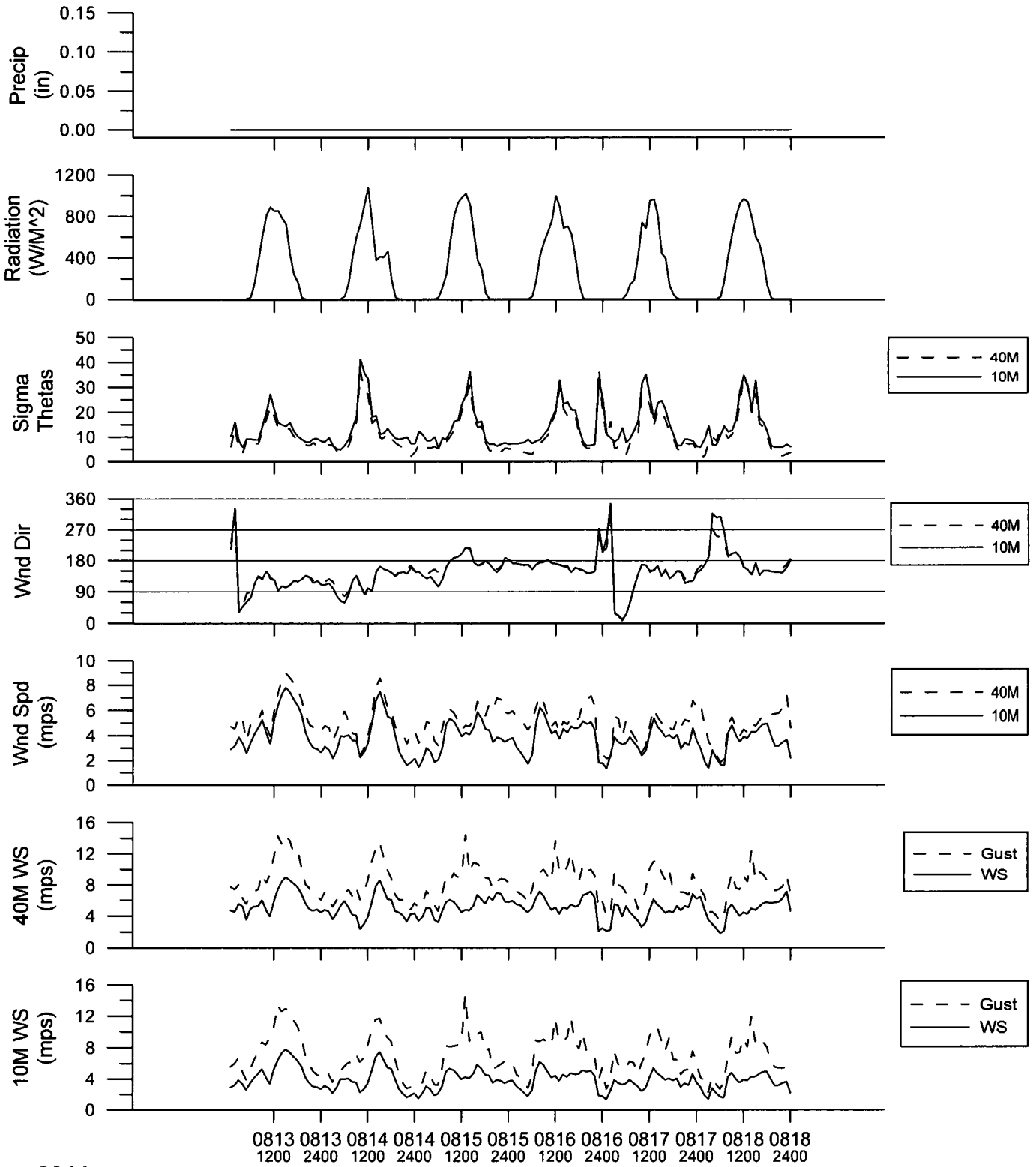
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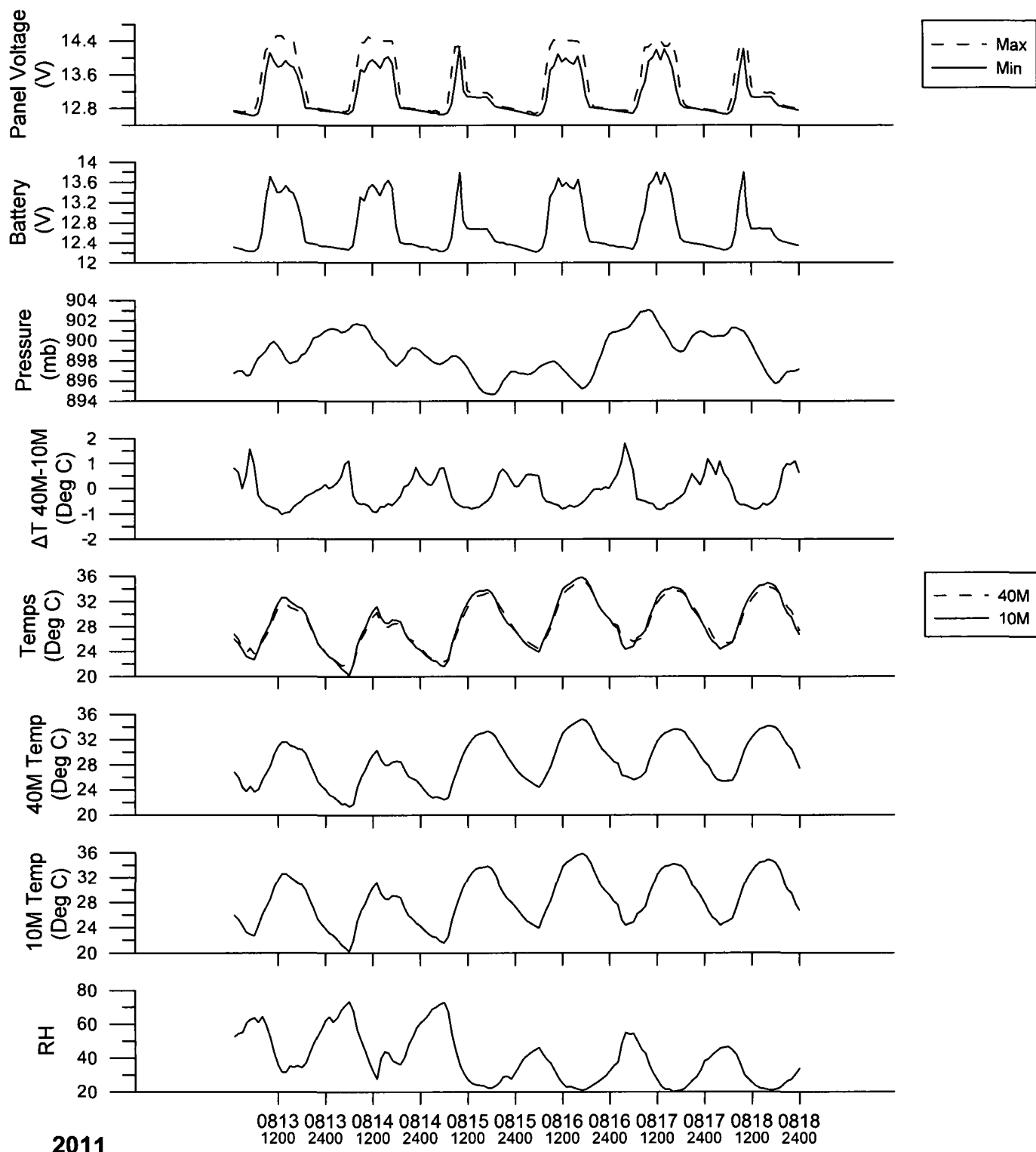


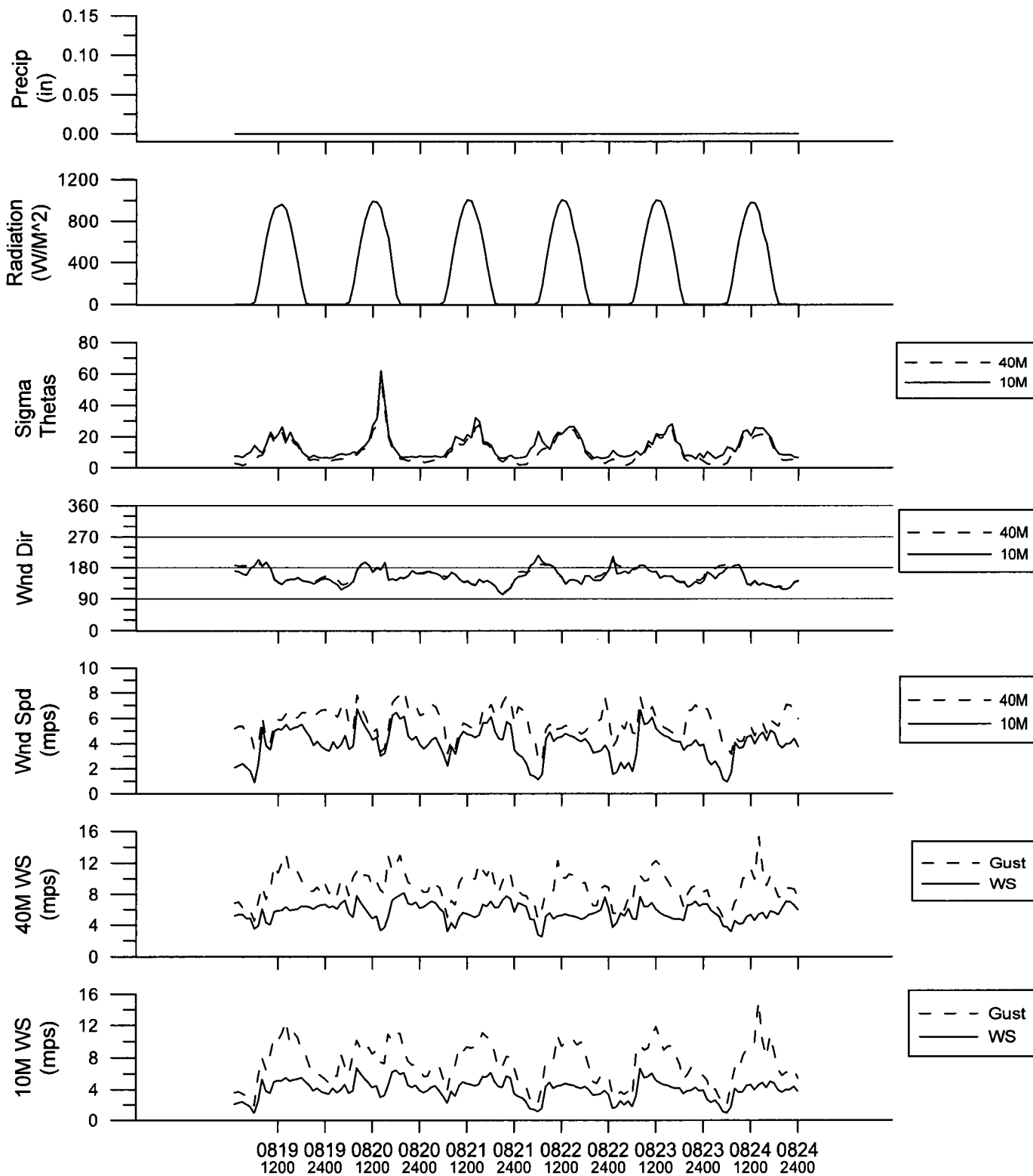


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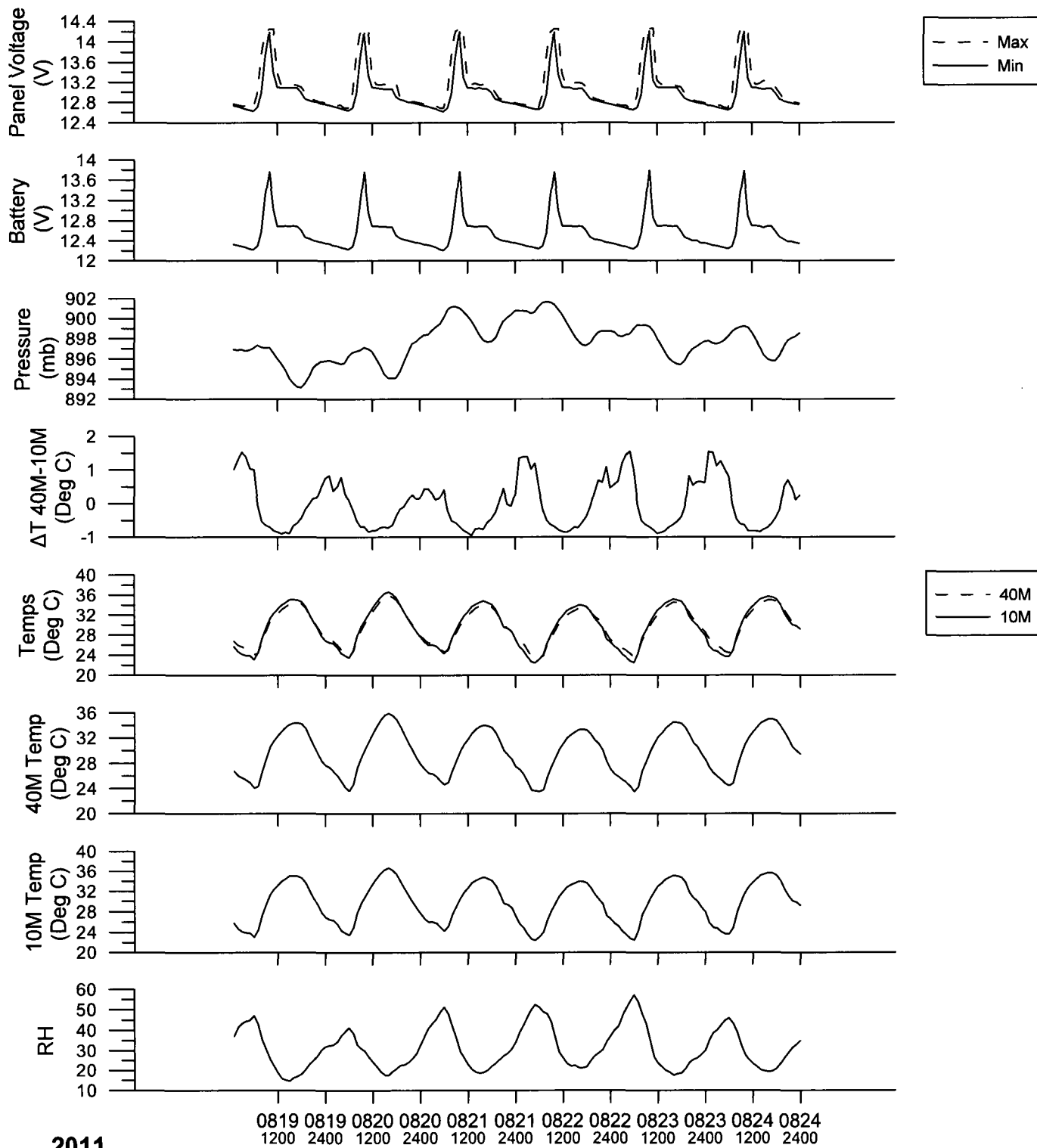


2011

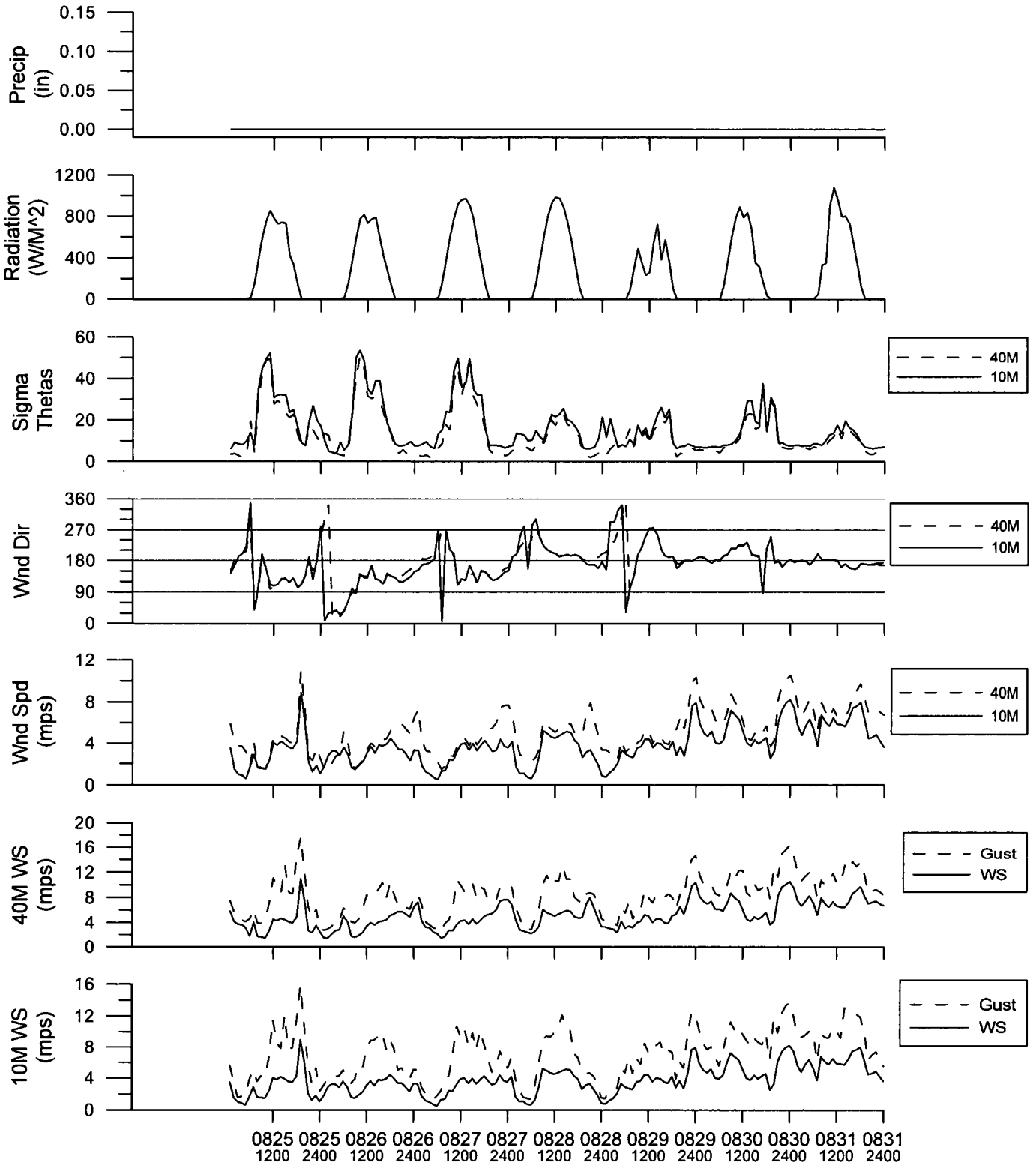




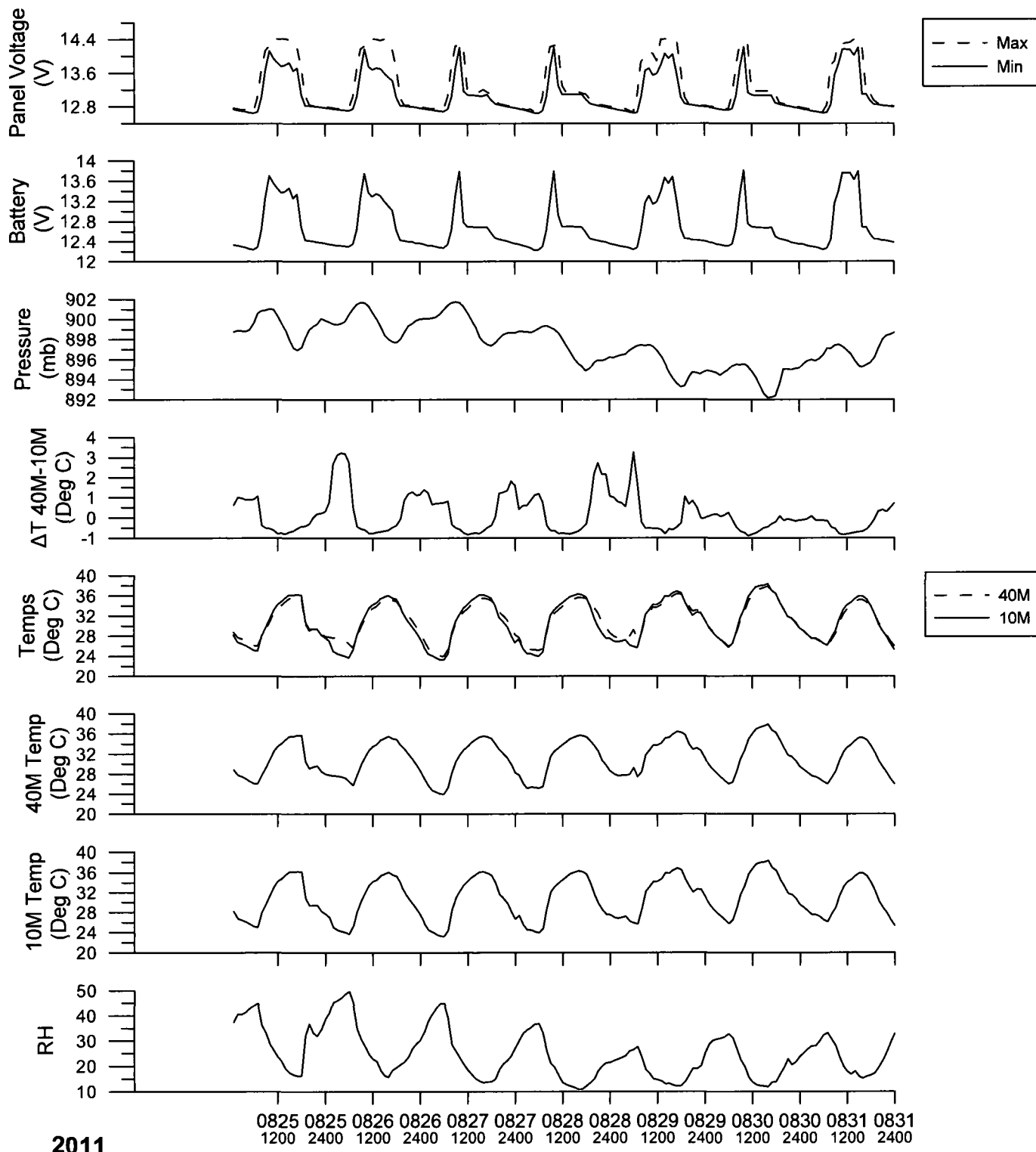
2011



2011

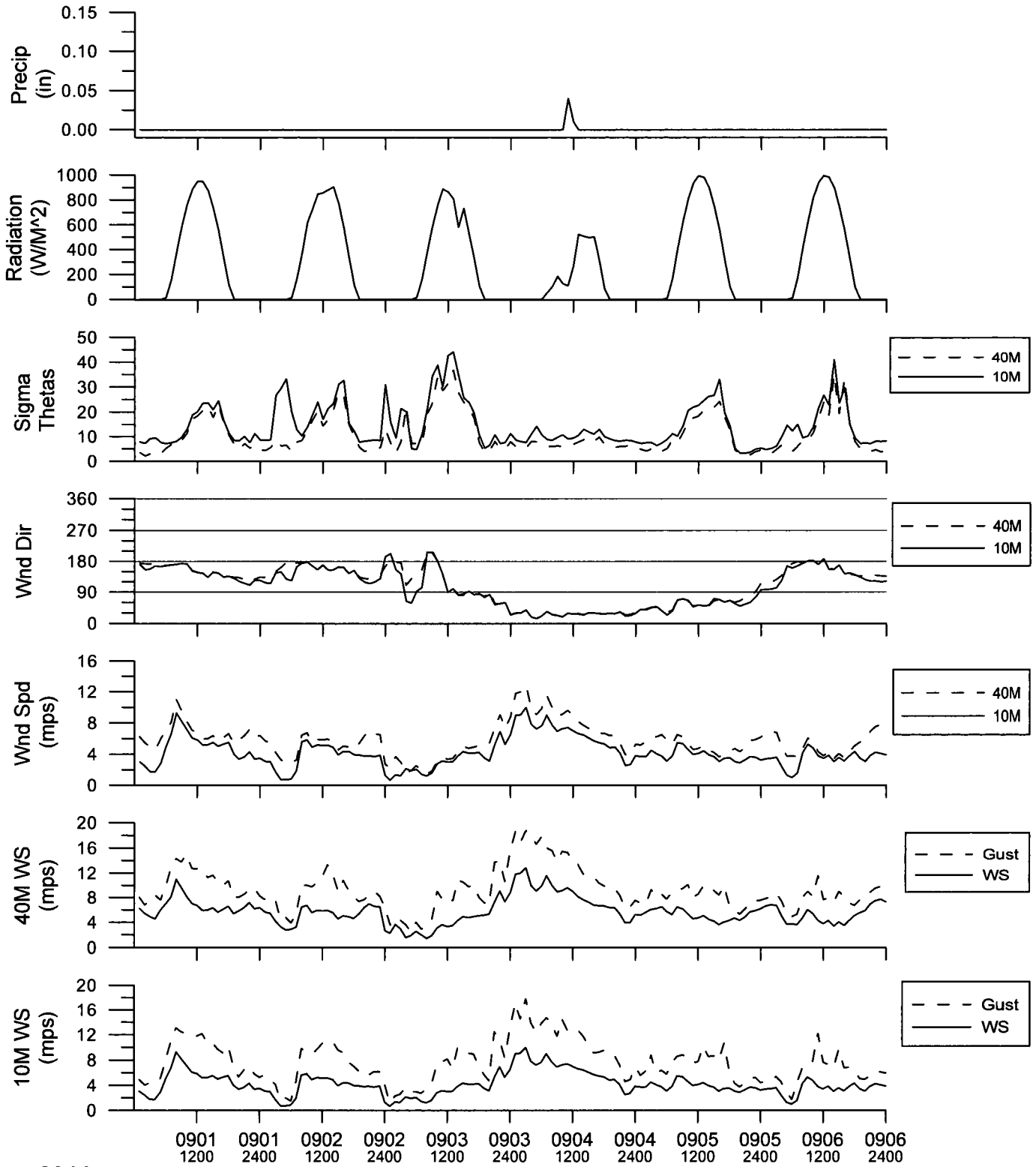


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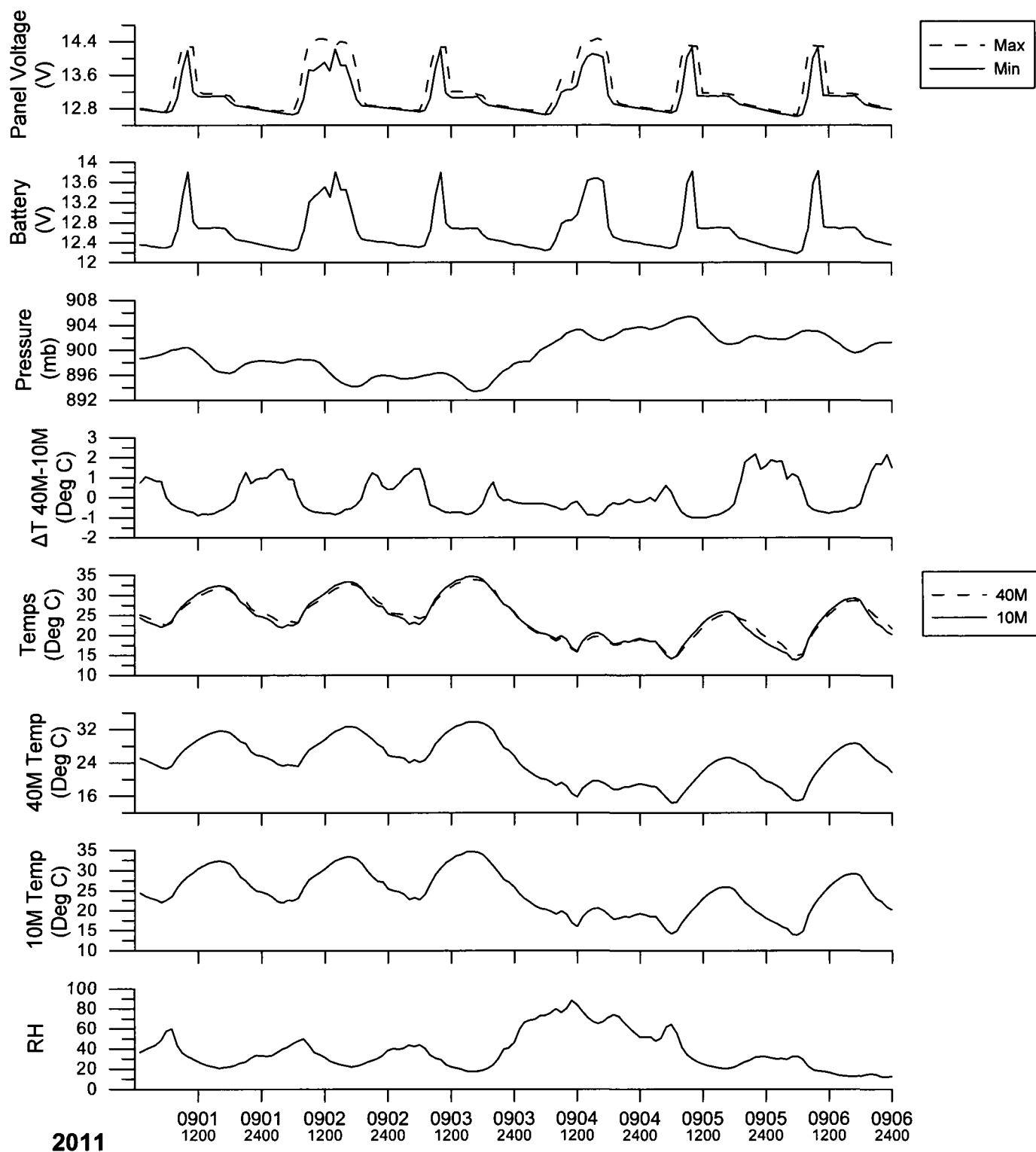


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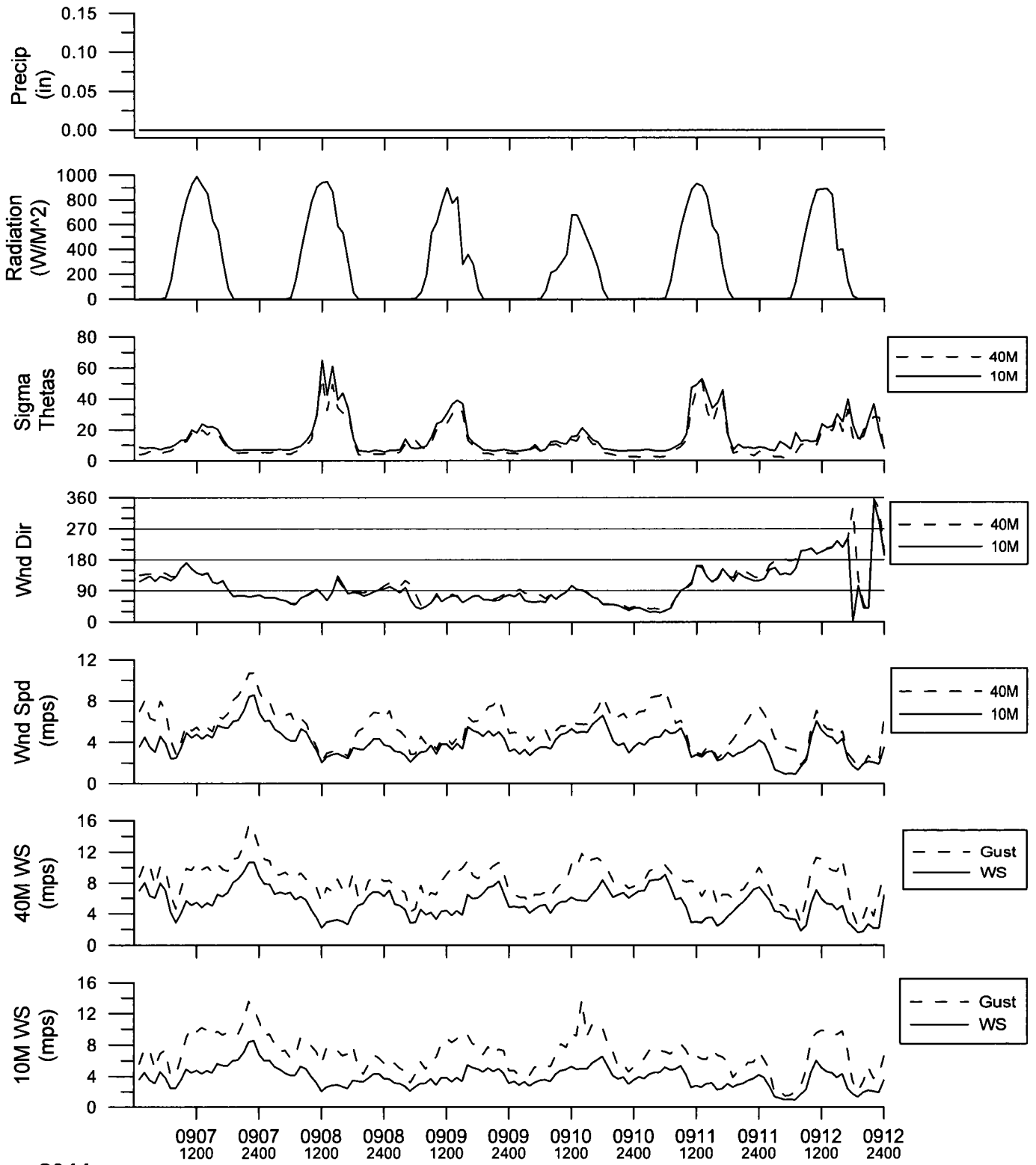




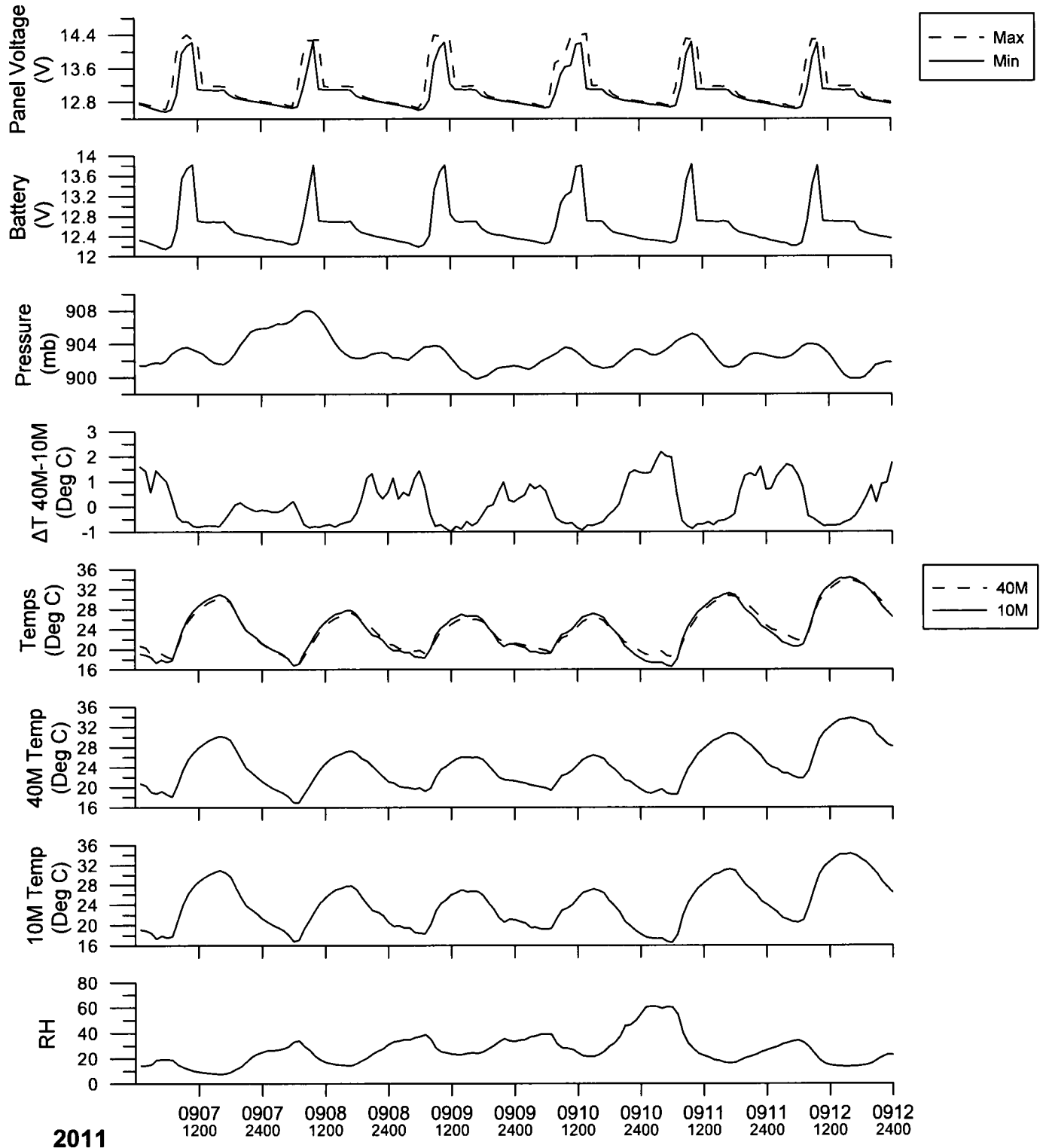
2011



2011

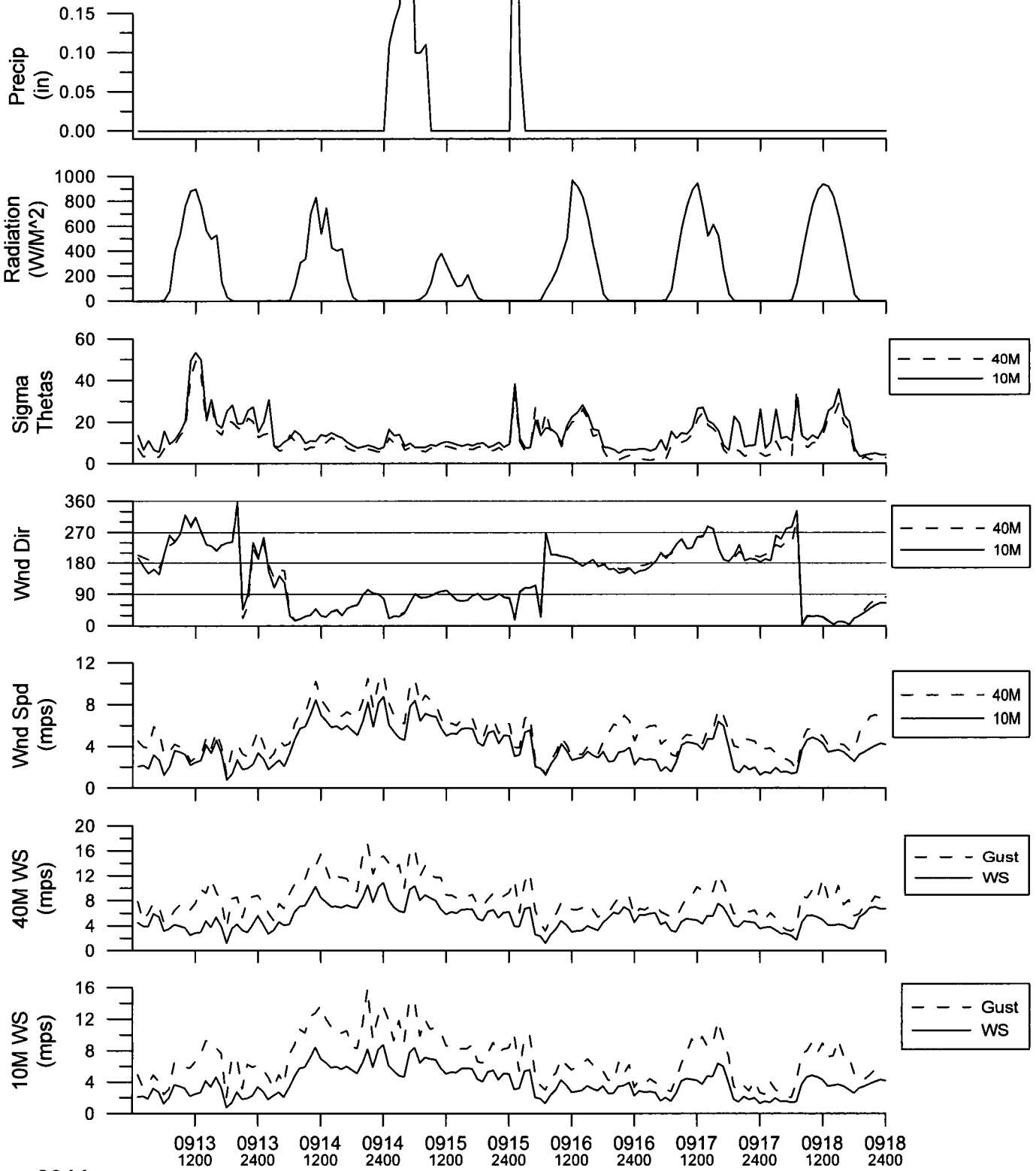


2011

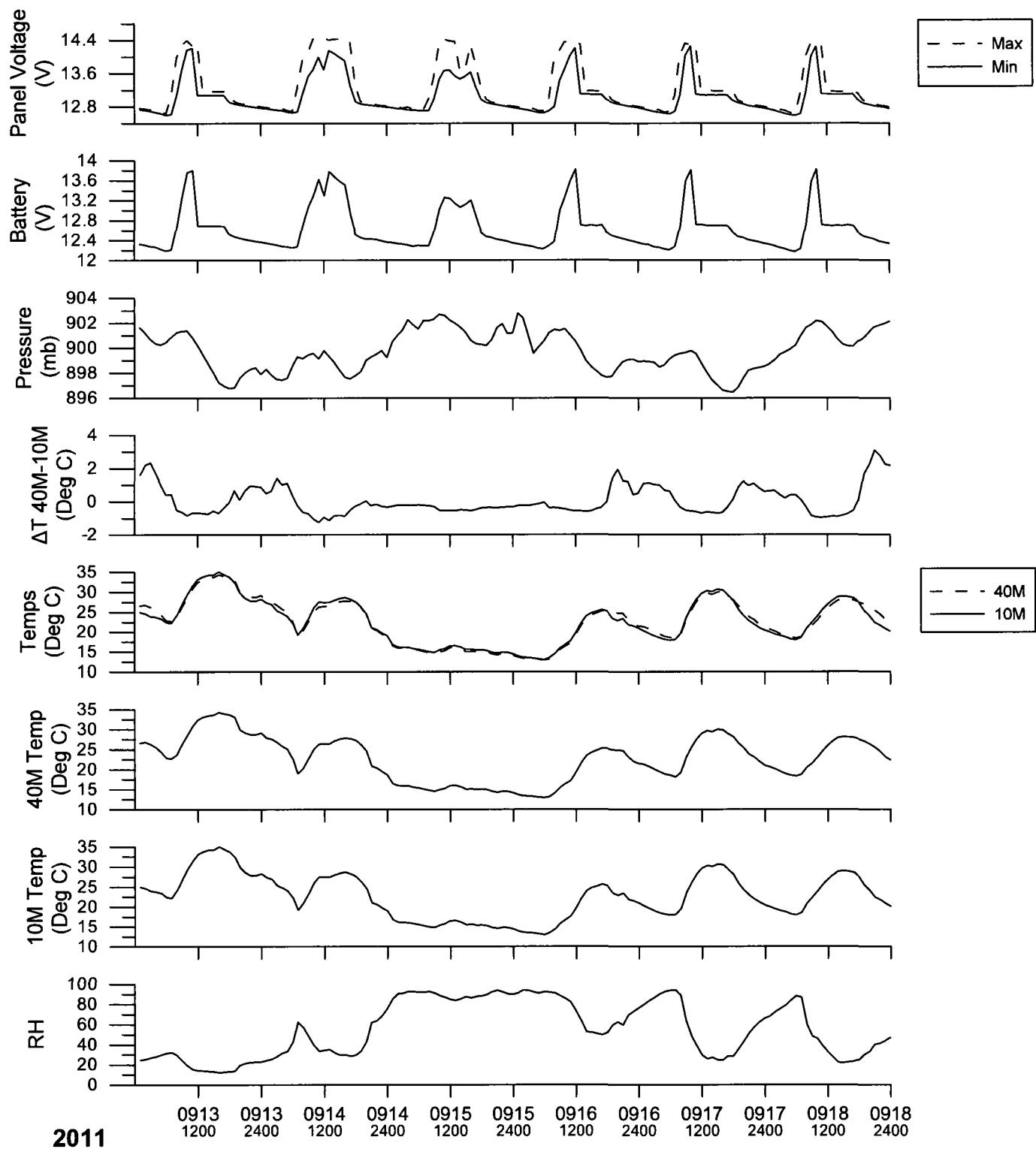


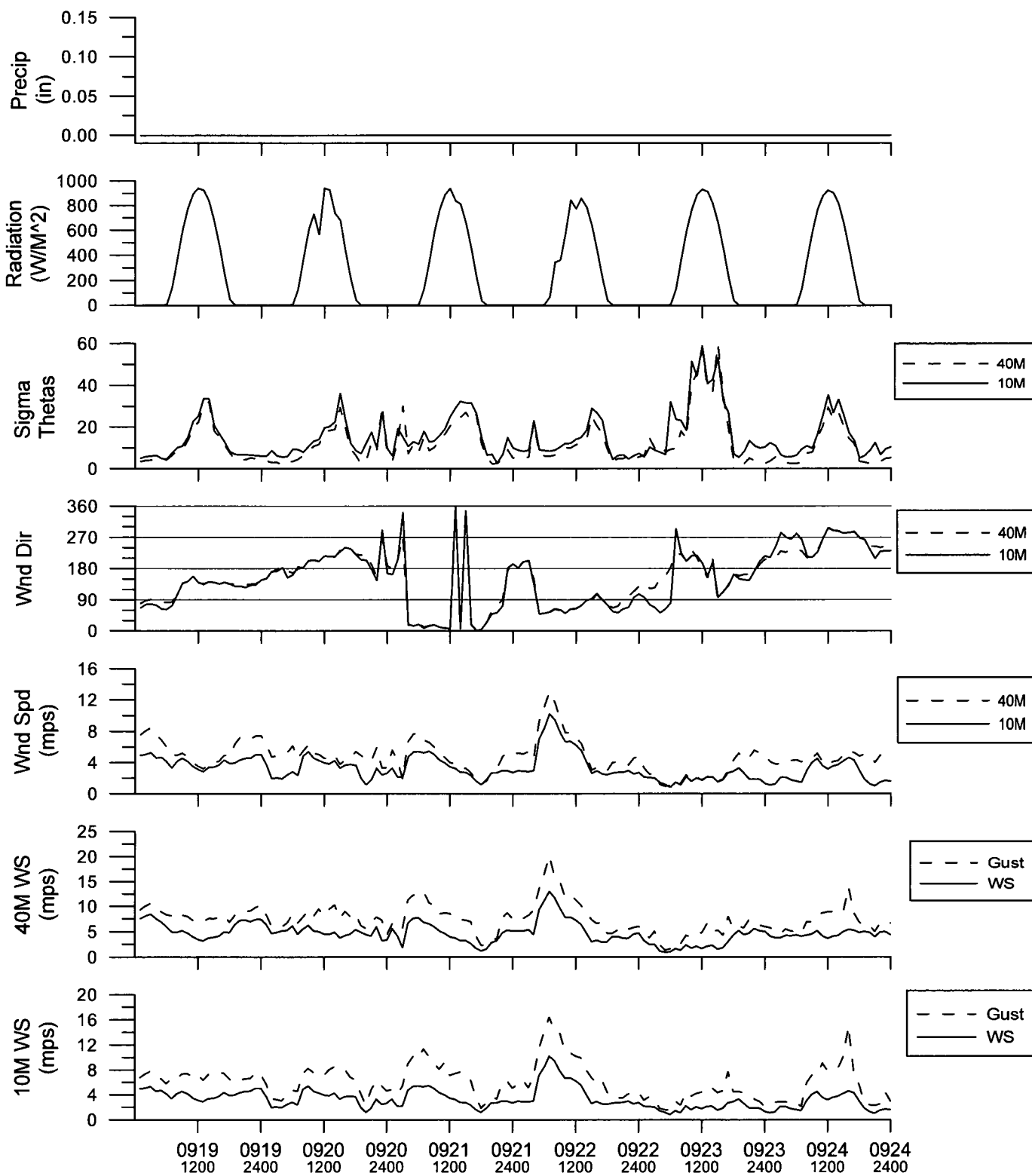
2011

# NEF QA Plots

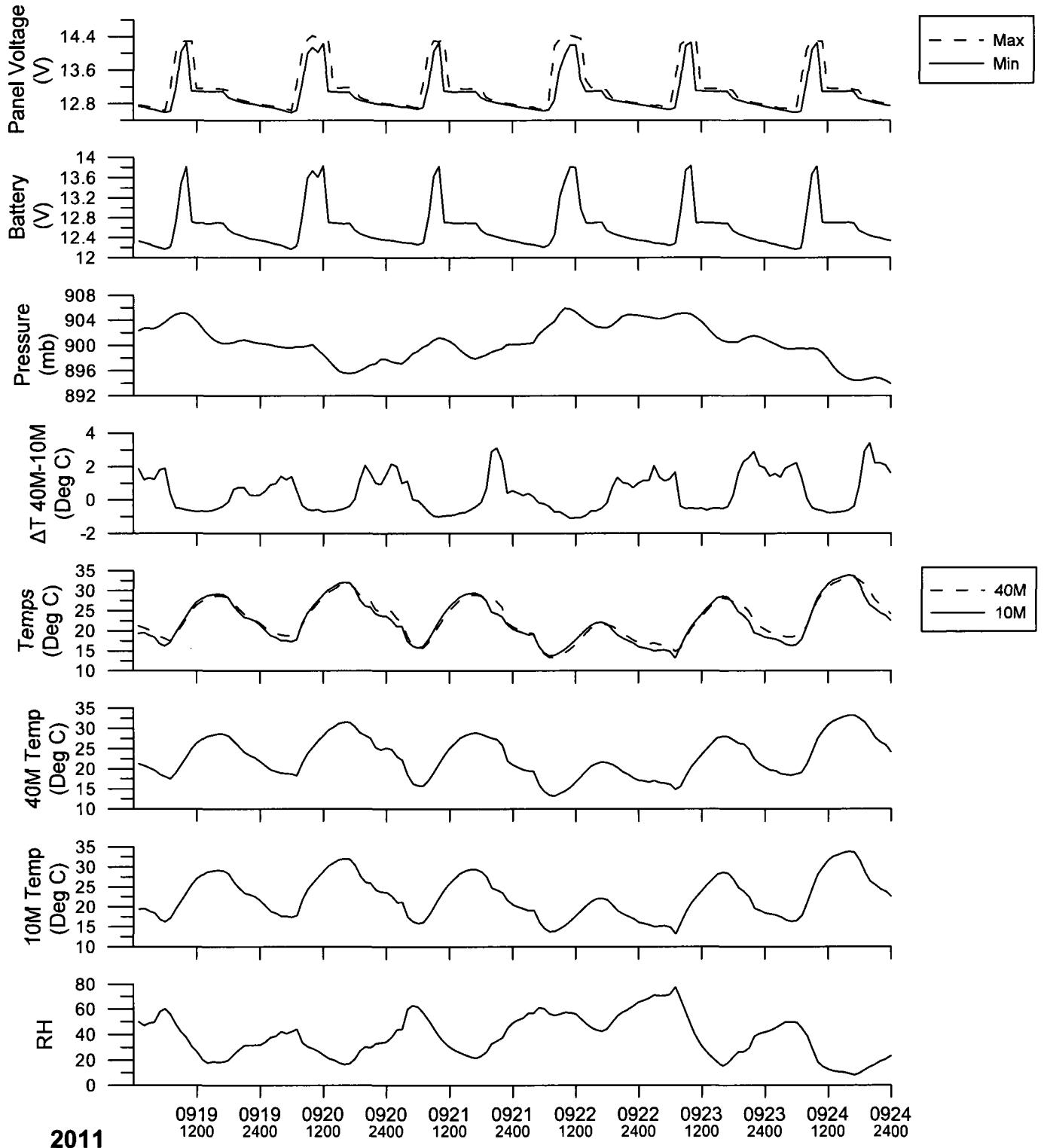


2011



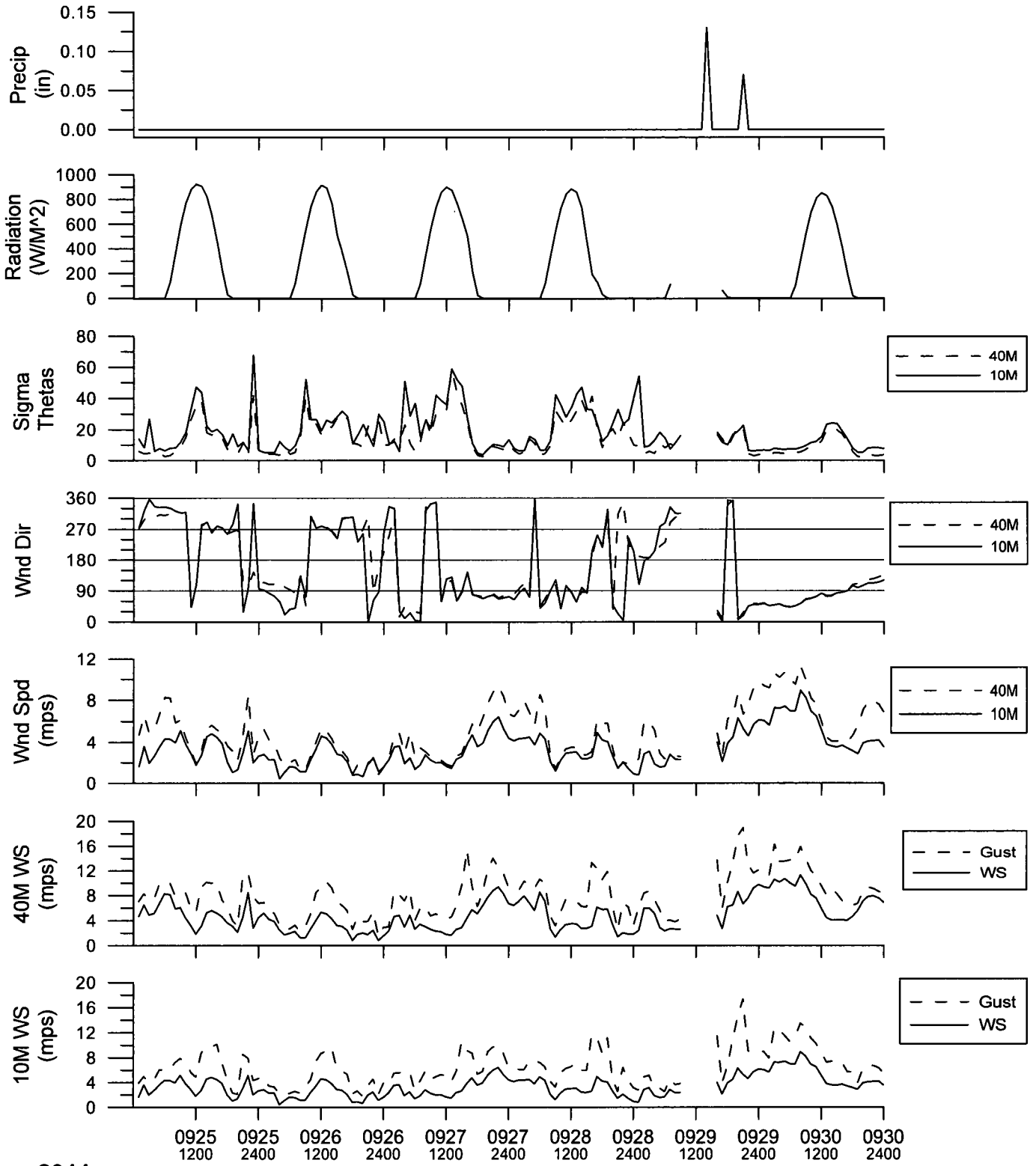


2011

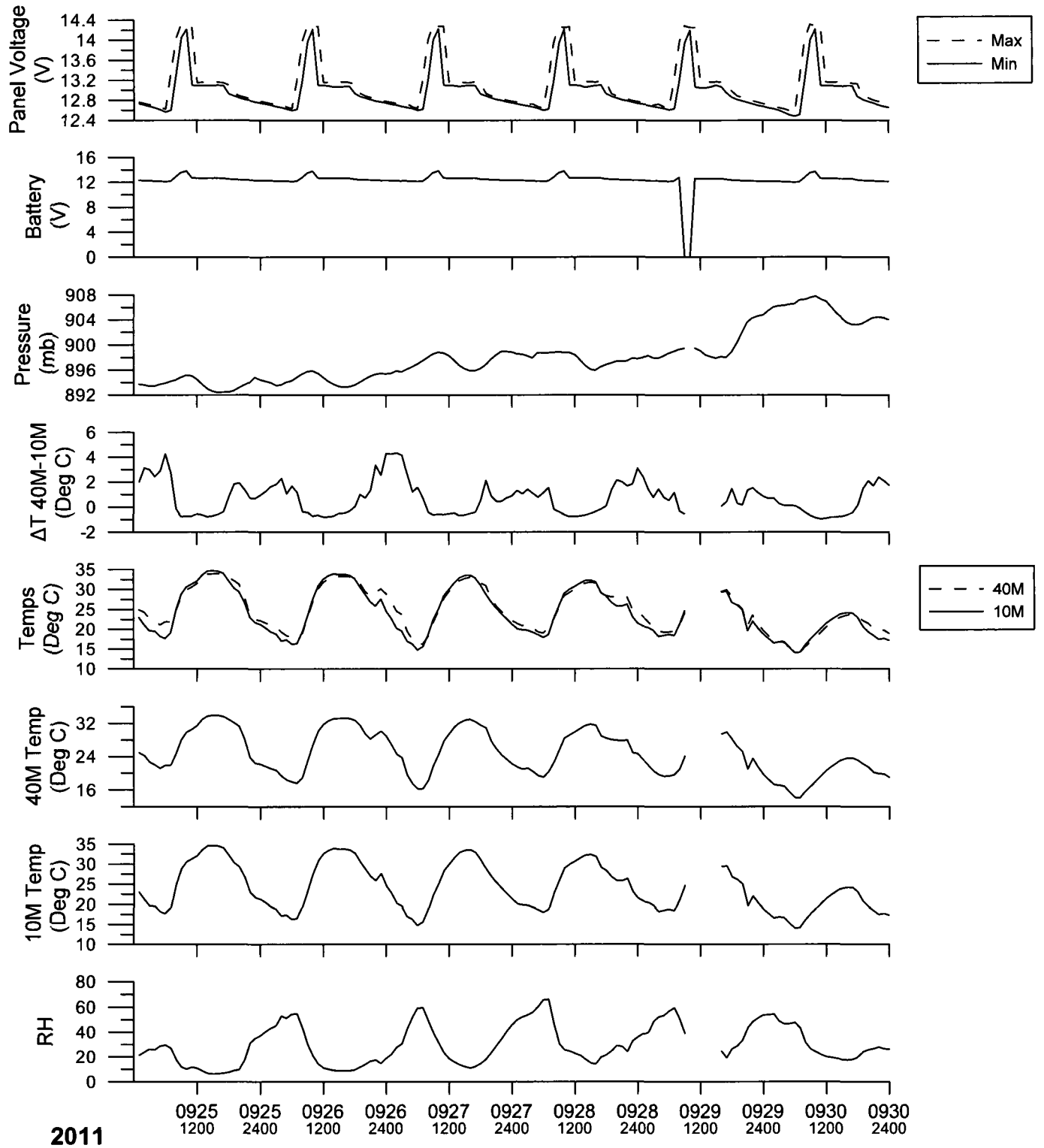


2011





2011



2011

**Appendix B**

**Wind Information for 10- and 40-Meter Levels for July through September 2011**

- B.1 Hourly Average Wind Speed/Direction**
- B.2 Joint Frequency of Occurrence Distributions of Wind Speeds and Directions**
- B.3 Wind Gust**

**Appendix B.1**  
**Hourly Average Wind Speed/Direction**

National Enrichment Facility

10M Wind Speed and Direction in mps for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	166/06.6	168/06.0	160/05.9	158/04.4	164/02.6	144/02.3	153/05.7	162/07.0	167/06.8	164/06.5	164/06.5	159/06.3	164/06.2
02	157/04.6	145/04.5	137/04.1	135/04.7	135/05.0	139/04.9	156/07.0	159/07.8	153/07.7	164/07.0	158/06.8	160/07.0	151/06.9
03	161/03.8	160/02.9	154/03.1	158/03.3	149/02.6	161/02.7	181/04.3	185/04.7	187/05.2	182/05.2	176/04.3	187/04.5	168/04.4
04	197/02.3	291/01.8	347/02.7	316/02.1	185/01.6	159/02.3	177/03.5	184/04.4	184/03.0	170/03.6	144/04.9	132/05.0	139/04.4
05	153/02.3	166/02.6	181/02.2	165/01.8	164/01.6	161/02.5	178/02.6	189/04.6	184/04.3	171/04.4	138/05.2	136/05.3	120/05.4
06	177/01.8	166/02.3	161/02.6	166/02.2	160/02.5	154/02.2	173/03.9	187/03.9	189/03.9	163/03.8	152/05.2	143/06.1	147/05.9
07	156/02.6	157/02.5	162/02.3	163/01.7	159/01.4	158/01.5	183/03.1	201/04.9	204/04.7	202/03.9	182/03.3	205/03.2	128/03.6
08	174/02.7	172/02.3	166/02.3	173/02.5	162/02.6	163/02.4	208/01.8	206/03.3	208/03.1	179/03.3	152/04.0	144/04.9	161/05.3
09	182/03.6	184/04.0	223/01.9	253/01.7	241/01.2	253/01.3	221/02.0	197/04.0	200/04.3	194/04.3	175/04.9	163/05.8	160/06.1
10	196/02.2	183/02.4	185/01.8	151/02.8	128/02.6	138/02.9	183/04.4	171/06.6	171/06.0	166/05.8	157/06.2	141/06.4	137/06.3
11	150/02.9	135/03.7	121/04.4	125/04.5	118/04.4	122/04.0	153/06.7	167/07.9	177/07.2	184/05.6	172/05.0	164/04.1	175/04.4
12	167/05.5	165/05.1	161/05.0	159/05.4	171/04.3	170/04.2	173/07.5	177/07.2	190/06.0	201/05.8	204/05.1	187/04.6	182/04.7
13	073/03.9	061/03.8	085/03.5	099/03.6	119/02.7	152/01.4	167/03.9	181/06.1	193/05.7	194/03.7	193/03.2	179/02.9	167/03.3
14	024/02.4	332/02.9	326/02.7	333/02.7	002/03.0	005/01.8	099/02.5	132/03.0	122/01.9	130/02.4	141/02.8	121/02.5	127/03.1
15	171/03.6	166/03.7	177/02.8	185/02.0	155/02.4	162/01.9	167/04.4	172/06.9	175/07.0	164/05.7	145/06.2	134/06.0	142/05.4
16	165/02.5	165/02.8	159/01.9	153/01.9	147/02.6	149/02.8	164/04.6	172/04.8	173/04.4	151/05.0	134/06.2	134/06.7	128/07.2
17	121/03.2	137/03.0	146/02.7	119/02.3	152/02.6	115/02.0	147/03.8	139/04.9	150/04.5	138/05.1	120/05.9	141/05.8	134/06.5
18	157/02.0	167/01.3	098/00.0	056/00.5	084/01.3	090/02.1	140/02.7	185/04.6	176/04.1	157/03.8	135/05.0	142/05.0	149/04.6
19	110/03.4	126/02.5	153/01.6	152/01.3	150/02.1	203/01.3	190/01.2	207/03.3	201/02.7	171/02.3	158/03.3	159/03.1	165/02.7
20	165/02.5	174/03.0	169/02.9	160/02.0	151/02.8	156/02.3	173/03.6	176/04.7	183/04.4	183/05.1	185/04.5	166/03.9	146/04.4
21	164/03.5	176/04.4	182/04.1	176/02.5	153/02.8	150/03.0	166/05.8	176/07.0	177/05.8	162/05.5	142/05.3	133/05.3	131/05.0
22	172/06.0	170/05.0	164/03.9	152/02.9	131/03.4	141/02.2	142/04.3	152/05.3	165/03.2	148/03.6	141/05.8	143/05.7	132/05.4
23	170/03.3	149/03.5	157/04.0	165/03.5	193/01.9	218/01.7	163/04.1	164/05.6	177/04.6	176/04.1	177/03.0	149/03.2	145/03.9
24	156/03.1	146/03.3	107/02.4	105/03.4	092/03.5	102/04.2	139/05.9	167/07.2	169/05.1	155/04.6	150/04.8	167/04.5	154/05.1
25	166/04.2	162/03.2	146/02.4	124/02.7	120/03.1	110/03.2	141/03.1	182/03.8	179/03.6	157/02.7	171/02.7	186/03.8	147/03.0
26	187/02.5	187/02.0	168/02.0	170/02.0	158/01.8	156/02.4	165/03.8	182/03.9	198/03.1	171/04.2	167/05.1	167/05.4	155/05.1
27	181/05.7	172/04.8	169/04.0	163/03.2	176/02.5	193/01.5	166/03.9	167/06.7	175/05.4	162/04.0	153/04.4	148/04.2	185/04.0
28	180/03.9	181/03.5	179/02.6	162/02.0	139/03.3	130/03.3	153/05.0	164/06.8	169/06.9	159/06.7	151/07.0	149/07.6	153/07.0
29	176/03.6	162/02.8	151/03.0	203/01.4	047/01.6	049/02.5	073/01.5	155/04.1	179/03.4	137/02.4	097/03.7	125/06.4	124/06.1
30	114/02.4	133/02.4	209/01.5	280/01.5	006/01.8	033/02.6	130/02.8	184/04.2	182/03.8	179/02.7	123/02.8	100/04.4	095/05.0
31	168/03.4	169/03.4	173/03.5	174/02.3	147/02.4	136/03.4	162/06.4	170/07.3	175/06.2	167/05.5	159/05.6	173/05.4	152/05.4
MEAN	161/03.4	162/03.3	160/02.9	158/02.6	144/02.6	145/02.5	162/04.1	175/05.4	179/04.8	168/04.5	155/04.8	153/05.0	147/05.0
MX SPD	166/06.6	168/06.0	160/05.9	159/05.4	135/05.0	139/04.9	173/07.5	167/07.9	153/07.7	164/07.0	151/07.0	149/07.6	128/07.2
MN SPD	177/01.8	167/01.3	098/00.0	056/00.5	241/01.2	253/01.3	190/01.2	132/03.0	122/01.9	171/02.3	171/02.7	121/02.5	165/02.7

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M Wind Speed and Direction in mps for JULY, 2011

PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	160/05.8	157/06.5	156/06.5	158/06.6	156/06.8	151/07.6	156/07.1	158/06.6	160/06.7	165/06.5	162/05.2	160/06.0	151/07.6	144/02.3
02	143/07.0	149/06.9	148/06.9	143/06.1	146/05.9	146/05.9	152/04.8	161/03.5	167/04.4	165/03.9	162/03.7	151/05.7	159/07.8	161/03.5
03	172/04.5	163/04.2	162/04.8	143/05.2	131/09.8	140/07.3	127/04.4	127/03.5	139/03.5	152/03.6	170/03.4	160/04.4	131/09.8	149/02.6
04	153/04.7	144/05.3	150/05.1	139/03.8	140/03.3	146/04.1	142/04.9	111/03.9	130/02.8	121/03.2	157/03.3	155/03.6	144/05.3	185/01.6
05	132/05.4	126/05.9	135/05.6	138/05.8	132/05.0	129/04.8	125/03.4	124/03.3	125/03.1	141/03.4	177/01.9	149/03.9	126/05.9	164/01.6
06	135/05.5	131/05.8	133/05.9	129/05.9	127/05.6	135/04.5	118/03.9	120/04.0	121/03.4	122/03.5	134/04.0	147/04.1	143/06.1	177/01.8
07	151/04.1	176/03.5	161/04.6	159/04.0	148/04.6	144/04.7	139/03.9	142/03.8	143/03.5	150/03.4	171/02.4	164/03.4	201/04.9	159/01.4
08	137/05.6	147/05.3	152/05.7	155/05.8	154/05.5	151/05.5	149/04.2	153/03.4	171/03.0	175/03.1	181/03.5	166/03.8	155/05.8	208/01.8
09	156/06.3	147/06.6	144/06.0	139/07.0	141/07.3	149/07.1	149/05.0	144/03.8	154/03.7	171/03.4	186/03.7	178/04.4	141/07.3	241/01.2
10	131/06.4	138/06.4	141/06.4	138/06.6	141/06.8	141/06.8	150/05.9	158/04.4	164/04.7	163/03.4	160/02.7	155/04.9	141/06.8	185/01.8
11	164/04.3	141/04.9	145/05.3	151/05.5	169/05.3	162/06.2	168/06.6	180/08.5	172/06.0	173/05.9	164/05.7	157/05.4	180/08.5	150/02.9
12	175/04.5	197/05.2	185/07.0	158/09.6	157/05.9	151/05.1	152/03.4	121/04.0	106/04.4	138/04.0	118/04.0	166/05.3	158/09.6	152/03.4
13	137/05.4	175/05.7	162/06.2	194/05.8	209/04.5	339/09.1	346/05.6	323/02.1	014/01.7	047/02.1	062/03.1	141/04.1	339/09.1	152/01.4
14	161/03.9	182/03.5	168/03.4	173/03.9	166/04.4	153/04.7	186/03.6	232/03.6	205/04.3	173/04.0	173/03.3	150/03.2	153/04.7	005/01.8
15	151/04.9	165/05.1	136/05.6	138/05.3	135/05.3	136/05.2	137/04.1	128/03.5	126/03.8	133/03.6	149/03.3	152/04.5	175/07.0	162/01.9
16	130/06.9	130/06.8	122/07.2	117/06.4	136/07.6	147/06.5	134/05.8	132/05.3	124/04.9	131/05.5	129/04.4	143/05.0	136/07.6	159/01.9
17	135/06.9	119/06.4	131/06.6	123/06.4	119/06.5	126/05.7	119/03.6	103/03.6	117/03.3	127/02.9	146/02.8	130/04.5	135/06.9	115/02.0
18	121/04.6	124/04.5	118/04.0	116/04.2	115/04.4	126/03.6	093/03.0	089/03.1	096/03.1	104/03.7	106/03.7	122/03.3	135/05.0	098/00.0
19	134/03.2	126/04.0	147/04.6	137/04.6	119/04.0	141/04.4	142/03.9	156/03.8	185/03.6	186/02.4	180/02.3	158/03.0	147/04.6	190/01.2
20	156/05.3	115/04.8	145/05.5	133/06.0	135/06.0	134/05.4	126/04.1	139/03.4	129/03.0	152/03.5	167/03.5	155/04.0	133/06.0	160/02.0
21	128/04.5	139/05.2	130/05.0	140/05.9	138/06.2	148/06.1	149/05.5	151/05.2	156/04.5	168/06.0	170/06.5	154/05.0	176/07.0	176/02.5
22	138/04.9	130/05.1	120/05.0	109/05.4	111/05.3	155/05.7	187/06.3	188/04.5	203/02.3	214/02.2	197/01.7	154/04.4	187/06.3	197/01.7
23	177/04.6	183/04.6	157/05.6	170/05.5	161/06.0	173/04.7	170/05.3	168/05.1	170/06.1	167/06.0	169/05.0	169/04.4	170/06.1	218/01.7
24	160/05.4	167/05.3	169/05.3	161/05.8	164/05.8	167/05.2	161/04.2	151/03.9	158/03.3	169/04.3	170/04.2	151/04.6	167/07.2	107/02.4
25	144/03.5	135/04.0	133/03.7	132/04.4	152/04.1	137/04.2	117/04.0	121/04.3	138/04.5	158/03.6	185/03.3	147/03.5	138/04.5	146/02.4
26	164/04.7	176/04.7	186/04.8	183/04.4	165/05.0	154/04.7	145/03.8	148/03.6	157/03.8	173/06.3	179/05.7	169/03.9	173/06.3	158/01.8
27	138/04.4	138/04.1	143/04.5	144/04.6	135/05.1	143/05.7	138/05.8	140/05.1	154/04.4	171/04.8	177/04.5	160/04.5	167/06.7	193/01.5
28	138/06.3	131/06.1	141/06.0	128/06.2	131/05.4	129/04.5	114/04.1	110/05.4	122/05.1	152/05.1	168/03.7	147/05.1	149/07.6	162/02.0
29	099/05.8	104/05.0	001/06.5	115/03.2	124/06.4	120/05.1	112/03.9	101/03.9	087/03.6	071/03.3	065/03.5	113/03.9	001/06.5	203/01.4
30	110/05.7	116/06.7	139/07.6	241/03.1	141/05.0	124/05.8	132/05.2	168/06.7	171/05.9	165/05.0	172/04.2	144/04.1	139/07.6	209/01.5
31	138/05.8	148/06.0	153/06.5	145/06.4	147/06.5	148/05.7	144/03.4	148/03.2	150/03.7	157/03.7	169/03.4	157/04.8	170/07.3	174/02.3
MEAN	144/05.2	146/05.3	146/05.6	145/05.5	143/05.7	143/05.5	140/04.6	141/04.3	145/04.0	152/04.0	160/03.7	153/04.3		
MX SPD	143/07.0	149/06.9	139/07.6	158/09.6	131/09.8	339/09.1	156/07.1	180/08.5	160/06.7	165/06.5	170/06.5		131/09.8	
MN SPD	134/03.2	176/03.5	168/03.4	241/03.1	140/03.3	126/03.6	093/03.0	323/02.1	014/01.7	047/02.1	197/01.7			098/00.0

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 153/04.3      MAXIMUM WIND SPEED WAS 9.8 mps AT 131 DEGREES ON 7/ 3 AT 1800

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M Wind Speed and Direction in mps for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	176/04.8	200/02.5	181/00.9	153/01.9	145/02.1	146/02.8	166/04.2	179/06.6	180/05.9	174/05.3	172/05.0	165/04.8	181/04.5
02	173/03.6	170/02.9	165/02.8	151/02.7	150/02.7	148/02.6	168/04.1	176/06.5	178/05.8	171/05.8	160/05.0	161/04.5	150/04.8
03	181/04.1	165/02.5	162/02.5	201/02.1	149/00.7	360/02.6	039/01.9	117/01.6	153/01.3	151/02.7	142/05.5	145/06.6	132/06.5
04	180/01.3	175/02.0	178/02.3	196/01.0	103/01.3	075/02.7	020/02.3	067/01.9	176/01.7	140/02.7	146/04.2	140/03.9	163/03.4
05	179/02.1	168/02.1	159/02.5	168/01.7	154/02.3	152/02.8	166/04.9	183/06.2	185/05.6	158/04.8	151/05.6	165/05.0	149/04.9
06	195/01.9	185/02.0	177/02.3	168/02.1	177/02.0	226/02.1	183/04.9	196/05.8	193/05.0	178/04.5	150/04.7	133/04.7	154/03.9
07	177/05.9	184/05.0	185/03.5	182/03.8	170/04.0	168/04.1	174/05.7	172/07.1	170/06.2	165/06.1	167/05.0	156/04.3	152/03.4
08	170/03.1	172/02.7	168/02.7	174/02.6	189/03.0	171/04.4	175/05.3	187/06.9	199/05.4	189/04.5	183/05.1	186/04.2	189/03.3
09	173/05.0	174/04.2	194/02.5	205/01.9	159/01.4	144/02.5	169/04.0	173/05.6	159/04.5	154/04.1	142/04.8	131/05.4	133/06.1
10	185/04.4	191/03.8	170/02.8	152/02.7	154/02.3	167/02.3	166/04.4	180/05.6	194/04.5	200/03.5	201/02.6	094/02.4	114/03.1
11	152/03.4	165/03.7	178/02.9	213/02.4	187/01.4	216/01.7	248/02.8	286/04.3	329/04.4	058/03.7	090/02.3	127/03.8	128/03.1
12	129/04.6	124/05.1	142/05.5	153/04.4	191/02.2	221/01.8	227/02.1	234/03.9	228/03.9	192/03.7	191/03.2	159/02.1	136/02.9
13	229/02.9	333/03.2	032/03.9	047/03.4	060/02.6	073/03.5	114/04.1	135/04.6	127/05.3	150/04.2	132/03.3	123/05.2	092/06.4
14	110/03.1	114/02.9	098/02.1	077/02.9	063/04.0	059/04.0	084/04.1	122/03.6	136/03.6	109/02.2	082/02.7	099/03.4	093/05.1
15	148/01.4	135/02.1	128/03.0	133/02.7	117/01.9	104/02.0	125/03.0	161/04.9	179/05.4	189/05.1	192/04.6	200/03.9	219/04.3
16	172/03.8	172/03.1	168/02.7	167/02.2	169/01.7	154/02.5	169/05.1	176/06.2	176/05.8	182/05.0	172/04.2	171/04.4	167/03.8
17	248/01.4	345/02.4	028/03.9	022/03.5	007/03.3	027/03.4	060/03.9	102/03.5	141/03.0	169/02.4	167/02.8	150/04.2	151/05.4
18	152/03.0	168/01.9	192/01.4	317/02.8	306/02.2	308/01.7	262/01.6	191/04.2	201/04.8	204/04.0	190/03.5	160/03.9	153/03.8
19	170/02.1	168/02.3	161/02.4	158/02.1	178/01.8	186/00.9	203/02.5	184/05.3	195/03.8	177/03.5	147/05.0	137/05.2	131/05.1
20	145/03.4	137/04.2	130/03.6	115/04.0	123/04.6	129/03.5	139/03.8	173/06.7	188/06.0	196/05.4	187/04.9	166/04.3	179/04.5
21	163/03.6	168/03.9	165/04.3	163/04.5	157/03.8	146/03.1	152/02.2	166/03.8	160/03.1	145/04.5	138/05.0	142/04.8	132/04.7
22	153/03.1	156/02.9	159/02.4	185/01.5	193/01.4	216/01.1	198/01.5	190/04.4	189/04.9	182/04.2	164/04.5	153/04.5	132/04.8
23	212/01.6	162/01.7	164/02.5	170/02.0	163/02.5	175/01.8	178/03.2	187/06.7	186/05.5	173/05.6	167/06.1	169/05.2	149/04.8
24	166/02.8	159/02.3	147/02.6	161/02.1	167/01.1	181/00.9	180/01.7	187/04.1	187/03.7	164/03.7	132/04.5	130/04.7	142/04.0
25	143/03.5	167/01.5	192/01.0	200/00.9	222/00.6	350/01.7	038/02.9	103/01.6	199/01.6	155/01.5	113/02.4	107/04.0	111/03.8
26	006/01.8	029/02.8	034/03.2	039/03.2	026/02.8	036/03.6	064/02.9	101/01.6	087/01.5	138/01.9	135/02.2	134/03.0	166/03.6
27	153/03.3	168/01.8	169/01.2	174/01.0	184/00.7	271/00.5	004/01.3	270/01.4	211/02.4	199/02.4	109/03.2	128/03.9	124/04.0
28	191/04.1	198/01.7	253/01.1	281/01.1	156/00.7	283/00.6	301/01.3	246/02.9	222/05.2	211/04.9	204/04.6	200/04.5	191/04.7
29	154/00.8	294/01.2	294/01.5	326/02.0	342/03.3	032/02.9	099/02.7	133/02.6	196/03.5	216/03.7	250/04.4	274/04.4	276/03.5
30	192/05.9	189/05.0	179/04.7	173/05.2	183/04.0	179/03.9	194/04.3	198/05.9	216/07.2	214/06.7	224/06.3	223/05.1	231/04.0
31	176/07.5	179/05.7	179/04.8	178/05.7	167/06.3	181/05.4	199/03.7	182/06.8	183/06.1	181/05.7	182/06.5	180/05.9	160/05.8
MEAN	170/03.3	169/02.9	165/02.8	167/02.6	158/02.4	158/02.6	160/03.3	172/04.6	182/04.4	173/04.1	161/04.3	153/04.4	151/04.4
MX SPD	176/07.5	179/05.7	142/05.5	178/05.7	167/06.3	181/05.4	174/05.7	172/07.1	216/07.2	214/06.7	182/06.5	145/06.6	132/06.5
MN SPD	154/00.8	294/01.2	181/00.9	200/00.9	222/00.6	271/00.5	004/01.3	270/01.4	153/01.3	155/01.5	135/02.2	159/02.1	136/02.9

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M Wind Speed and Direction in mps for AUGUST, 2011

PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	183/04.9	159/04.9	179/05.0	178/04.4	175/04.2	166/03.9	141/03.4	135/04.3	138/04.6	146/03.6	158/03.1	166/04.1	179/06.6	181/00.9
02	135/03.0	127/03.5	138/03.7	132/05.6	144/04.8	132/04.8	122/04.0	133/04.2	144/04.1	169/02.3	172/02.8	153/04.0	176/06.5	169/02.3
03	140/05.9	135/05.0	130/05.5	131/05.2	143/05.9	147/04.7	131/03.1	131/03.1	145/03.4	158/02.8	188/01.1	144/03.6	145/06.6	149/00.7
04	148/04.4	130/05.1	124/04.6	155/04.3	177/03.8	142/04.2	140/03.2	148/03.1	145/03.9	167/04.0	187/02.2	147/03.1	130/05.1	196/01.0
05	145/04.7	147/04.5	188/04.9	174/04.4	147/05.6	145/05.0	141/04.2	140/04.1	154/03.2	178/03.1	203/01.7	162/04.0	183/06.2	168/01.7
06	153/03.4	118/03.4	241/02.4	092/02.5	116/03.0	105/02.7	096/03.8	107/04.4	141/03.3	156/03.5	171/06.0	159/03.5	171/06.0	195/01.9
07	113/03.8	132/03.6	135/03.6	107/03.8	031/04.1	260/04.2	200/02.9	134/01.7	103/01.2	149/03.0	169/03.9	159/04.2	172/07.1	103/01.2
08	107/03.2	133/03.1	171/02.7	132/02.9	108/03.8	117/03.2	122/04.0	135/04.0	146/03.7	162/05.2	167/04.9	161/03.9	187/06.9	174/02.6
09	136/06.5	138/06.4	135/06.0	137/05.5	136/06.0	123/04.5	126/04.3	135/04.1	135/03.9	146/04.2	172/03.9	151/04.5	136/06.5	159/01.4
10	156/03.3	153/02.6	138/03.4	170/02.6	152/02.9	136/03.6	152/06.2	165/05.3	223/02.4	179/02.5	153/02.9	165/03.4	152/06.2	154/02.3
11	179/04.8	229/07.4	213/04.4	329/05.2	340/03.8	066/04.0	049/06.3	057/06.6	074/05.9	106/05.4	138/05.4	146/04.1	229/07.4	187/01.4
12	126/04.4	136/03.1	141/04.2	127/04.5	144/04.8	221/04.6	285/02.1	001/01.9	295/01.5	286/01.2	194/02.3	180/03.3	142/05.5	286/01.2
13	106/07.3	104/07.8	109/07.5	121/06.9	120/06.4	126/05.7	136/04.3	131/03.5	115/03.0	121/02.9	109/02.7	111/04.6	104/07.8	060/02.6
14	147/06.8	163/07.5	156/06.5	152/05.5	145/05.3	134/04.0	144/02.7	147/02.1	142/01.6	160/01.8	149/02.1	121/03.7	163/07.5	142/01.6
15	214/04.1	175/04.6	166/05.9	168/05.4	178/04.5	171/04.5	157/03.5	146/03.9	159/03.8	189/03.5	183/03.7	164/03.8	166/05.9	148/01.4
16	164/04.5	161/04.2	145/04.7	160/04.6	156/04.7	151/05.2	143/04.9	144/05.1	148/04.5	274/01.8	203/01.8	167/04.0	176/06.2	169/01.7
17	164/04.7	134/04.4	154/03.9	128/04.1	135/03.8	150/04.1	144/02.9	113/03.4	119/03.2	121/04.6	146/03.6	124/03.6	151/05.4	248/01.4
18	138/04.3	173/04.3	136/04.6	150/04.9	151/05.0	149/04.0	147/03.2	146/03.2	145/03.5	161/03.7	183/02.2	174/03.4	151/05.0	192/01.4
19	143/05.5	146/05.1	146/05.3	150/05.3	143/05.5	140/05.0	139/04.6	133/03.8	139/04.2	146/03.8	149/03.6	157/03.9	143/05.5	186/00.9
20	173/03.0	195/03.2	144/04.5	147/06.2	143/06.5	151/05.9	149/06.1	155/04.6	170/04.3	163/04.6	162/03.9	157/04.7	173/06.7	173/03.0
21	128/04.5	145/04.7	137/05.7	142/05.6	135/06.1	127/05.0	111/04.4	102/04.3	111/05.7	121/05.5	144/03.5	142/04.4	135/06.1	152/02.2
22	143/04.6	145/04.5	141/04.3	131/04.2	156/04.4	156/04.0	143/03.3	143/03.4	144/03.4	158/03.9	173/03.4	162/03.5	189/04.9	216/01.1
23	156/04.6	155/04.6	155/04.3	142/04.2	138/04.2	139/03.5	123/03.8	130/03.9	140/04.3	133/03.8	141/03.9	158/03.9	187/06.7	212/01.6
24	128/04.6	135/04.9	130/04.2	129/05.1	122/04.8	124/03.9	117/03.7	118/04.0	122/04.0	138/04.4	140/03.7	146/03.6	129/05.1	181/00.9
25	127/04.2	129/03.9	118/03.6	130/03.5	105/04.1	111/08.9	135/06.1	191/02.2	126/01.2	183/01.8	281/01.0	142/02.8	111/08.9	222/00.6
26	129/03.0	124/03.8	112/03.7	143/03.9	135/04.4	132/04.0	121/03.4	119/03.3	126/02.9	133/02.3	148/03.3	105/03.0	135/04.4	087/01.5
27	166/03.3	143/04.0	117/03.3	151/03.8	148/04.3	133/03.7	123/03.2	127/03.3	134/04.4	147/03.7	151/03.5	154/02.8	134/04.4	271/00.5
28	194/04.9	198/05.1	194/05.0	197/04.3	194/03.9	180/02.6	169/03.1	168/03.3	168/02.6	157/01.9	176/00.9	202/03.1	222/05.2	283/00.6
29	257/04.0	214/04.0	194/03.5	190/03.4	193/04.2	158/02.8	166/03.7	180/02.7	180/04.6	179/07.7	186/07.9	208/03.5	186/07.9	154/00.8
30	200/03.7	194/04.3	191/03.9	085/04.2	216/04.5	247/02.5	173/03.2	178/06.1	161/07.3	175/07.9	183/08.2	193/05.2	183/08.2	247/02.5
31	170/05.6	159/06.4	157/07.4	157/07.6	170/08.0	170/06.3	167/04.4	168/04.6	169/04.8	167/04.2	166/03.6	173/05.8	170/08.0	166/03.6
MEAN	152/04.5	151/04.6	151/04.6	143/04.6	146/04.8	145/04.4	139/03.9	138/03.8	143/03.7	158/03.7	167/03.4	157/03.8		
MX SPD	106/07.3	104/07.8	109/07.5	157/07.6	170/08.0	111/08.9	049/06.3	057/06.6	161/07.3	175/07.9	183/08.2		111/08.9	
MN SPD	135/03.0	153/02.6	241/02.4	092/02.5	152/02.9	247/02.5	285/02.1	134/01.7	103/01.2	286/01.2	176/00.9			271/00.5

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 157/03.8      MAXIMUM WIND SPEED WAS 8.9 mps AT 111 DEGREES ON 8/25 AT 1900

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS



National Enrichment Facility

10M Wind Speed and Direction in mps for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	172/03.0	156/02.5	158/01.8	166/01.7	165/02.8	168/04.9	170/06.6	172/09.3	174/08.2	173/07.2	152/06.1	148/05.9	146/05.2
02	117/03.1	115/03.0	147/01.7	149/00.7	129/00.7	124/00.8	163/01.9	175/05.6	179/05.9	167/04.9	156/05.2	169/05.1	155/05.2
03	203/00.6	156/01.4	144/01.2	064/02.1	058/01.9	092/02.1	103/01.4	208/01.2	206/01.6	181/02.8	143/03.1	089/03.0	099/03.0
04	030/09.0	030/09.1	038/10.0	019/07.9	014/07.2	022/07.7	034/09.0	026/07.7	023/06.9	019/07.3	029/07.4	028/07.0	028/06.7
05	040/03.7	039/03.7	045/04.5	047/04.1	036/03.8	024/03.1	036/03.8	067/05.5	070/05.4	066/04.6	047/04.0	053/04.1	050/04.4
06	097/03.4	099/03.5	103/03.6	124/02.4	167/01.3	160/01.0	167/01.5	175/04.2	182/05.3	183/04.8	171/03.8	187/03.4	157/03.9
07	116/03.6	125/04.5	133/03.5	118/03.1	133/04.6	127/03.9	120/02.5	132/02.5	157/03.5	172/04.9	153/04.5	142/04.8	138/04.3
08	069/06.0	070/06.1	070/05.2	063/04.9	061/04.4	051/04.1	050/04.1	069/05.3	076/05.0	085/04.0	094/03.2	079/02.0	061/02.6
09	102/03.6	094/03.1	084/03.1	099/02.7	063/02.1	042/02.6	038/03.1	045/03.1	055/03.7	081/02.9	058/03.8	068/03.8	075/03.3
10	073/03.3	083/02.8	060/03.3	058/02.7	056/03.2	059/03.5	056/03.6	078/03.4	065/04.3	078/04.7	086/04.9	105/05.3	093/04.9
11	040/04.0	034/03.7	028/04.3	029/04.5	027/04.5	032/05.2	039/04.8	069/04.9	090/05.3	099/04.2	113/02.5	164/02.8	158/02.6
12	125/03.8	152/02.7	157/01.3	137/01.2	141/00.9	137/01.0	154/00.9	206/01.6	208/02.2	213/04.5	197/06.0	204/05.1	212/04.6
13	195/02.1	169/02.2	148/01.8	161/03.2	146/02.7	209/01.2	262/02.0	243/03.6	263/03.5	319/03.2	289/02.2	313/02.5	272/02.6
14	255/02.8	154/01.7	108/02.2	143/02.2	122/02.1	029/03.3	014/04.7	019/05.7	027/05.9	031/07.1	048/08.4	029/07.0	026/06.5
15	021/06.1	028/05.4	027/04.8	036/04.6	065/07.8	090/08.4	080/06.4	081/07.1	086/06.9	093/06.9	098/05.8	101/05.0	087/05.3
16	021/03.1	098/03.2	109/05.4	109/05.6	115/02.1	024/01.9	267/01.3	204/02.3	205/03.0	200/04.3	198/03.6	193/02.7	180/02.8
17	157/02.9	160/02.7	169/02.8	185/02.6	210/01.6	194/02.0	212/01.5	234/02.5	250/04.1	222/04.4	225/04.3	258/04.2	256/03.7
18	192/01.5	188/01.4	261/01.9	250/01.5	281/01.6	285/01.4	332/01.5	002/03.7	028/04.6	027/04.9	029/04.7	025/04.3	015/03.5
19	066/04.9	077/05.1	078/05.3	074/04.6	063/04.7	062/04.1	073/03.3	106/04.1	138/04.6	143/04.2	158/03.5	140/03.1	135/02.9
20	152/03.7	172/02.0	172/02.0	182/01.9	153/02.4	162/02.8	184/02.3	183/04.9	203/05.4	205/04.6	202/04.3	216/04.0	215/03.8
21	163/03.3	207/02.1	341/02.1	019/04.7	014/05.4	018/05.4	007/05.3	014/05.5	017/05.0	011/04.3	007/04.0	004/03.5	358/03.3
22	182/03.0	200/02.9	202/02.9	135/03.0	048/07.0	051/08.4	054/10.2	064/09.5	060/07.8	050/06.7	063/06.7	064/06.2	073/05.6
23	097/02.1	075/02.1	068/02.0	052/01.4	063/01.2	080/00.8	294/01.4	225/01.1	201/02.2	217/01.6	217/02.0	196/01.8	157/02.1
24	211/01.1	242/01.2	283/02.1	270/02.1	264/01.8	280/01.6	263/01.5	214/03.0	212/04.0	226/04.5	265/03.6	296/03.1	289/03.6
25	275/01.6	324/03.6	357/01.9	336/02.7	333/03.6	334/04.3	331/04.3	323/04.0	318/05.1	318/03.8	044/02.9	107/01.8	279/02.7
26	092/02.8	082/02.3	074/02.3	058/00.4	020/01.1	037/01.6	040/01.6	130/01.1	072/01.1	306/02.3	273/03.4	279/04.6	274/04.5
27	335/02.3	329/03.5	032/03.7	010/01.9	026/02.5	004/01.4	002/01.8	323/02.8	342/02.3	347/02.0	059/02.0	124/01.7	130/01.5
28	064/04.1	084/04.4	097/04.4	071/04.5	357/03.8	039/04.9	055/04.3	091/02.1	122/01.2	037/02.2	105/02.9	086/03.0	057/03.1
29	108/00.8	177/02.8	186/03.1	206/01.9	277/01.6	287/01.6	334/02.8	315/02.3	316/02.3				
30	053/06.1	046/05.7	049/07.3	051/07.2	045/07.4	043/07.0	046/07.0	053/08.9	066/08.2	068/06.9	073/06.5	082/05.1	076/03.8
MEAN	107/03.4	112/03.3	095/03.4	089/03.2	067/03.3	057/03.4	043/03.5	105/04.3	110/04.5	106/04.5	112/04.3	113/04.0	110/03.9
MX SPD	030/09.0	030/09.1	038/10.0	019/07.9	065/07.8	090/08.4	054/10.2	064/09.5	174/08.2	019/07.3	048/08.4	028/07.0	028/06.7
MN SPD	203/00.6	242/01.2	144/01.2	058/00.4	129/00.7	124/00.8	154/00.9	225/01.1	072/01.1	217/01.6	217/02.0	124/01.7	130/01.5

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M Wind Speed and Direction in mps for SEPTEMBER, 2011

PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	133/05.2	148/05.5	146/05.0	134/05.3	137/05.5	130/04.0	122/03.4	116/03.7	111/04.3	124/03.4	124/03.5	148/04.8	172/09.3	166/01.7
02	155/04.9	164/03.9	162/04.4	144/04.4	154/03.9	130/03.9	119/03.8	115/03.8	120/03.7	129/03.9	193/01.3	147/03.6	179/05.9	149/00.7
03	082/03.8	085/04.4	093/04.2	083/04.2	086/04.3	074/03.5	083/03.1	053/05.2	057/06.9	059/05.2	025/06.5	098/03.2	057/06.9	203/00.6
04	025/06.5	031/06.1	030/05.7	028/05.5	028/05.3	029/04.8	028/04.9	033/04.2	021/02.6	023/02.7	030/03.8	027/06.5	038/10.0	021/02.6
05	052/04.0	071/03.7	069/03.1	061/03.5	065/03.5	057/03.1	050/02.9	055/03.3	061/03.7	075/03.6	097/03.2	055/03.8	067/05.5	050/02.9
06	157/03.0	169/03.6	144/03.1	145/03.8	141/04.4	133/03.5	125/03.1	122/03.8	122/04.2	120/04.1	122/03.9	145/03.4	182/05.3	160/01.0
07	143/04.7	115/04.4	111/05.6	119/05.4	092/05.4	073/06.0	075/06.1	076/07.0	072/08.4	074/08.6	077/06.8	117/04.9	074/08.6	120/02.5
08	086/02.8	133/02.9	109/02.7	081/02.4	086/03.5	083/03.4	074/03.3	079/03.7	087/04.3	092/04.3	095/03.7	079/03.9	070/06.1	079/02.0
09	075/03.9	055/03.4	064/05.5	074/05.1	076/04.9	064/04.6	064/05.1	061/04.6	062/05.0	073/04.4	078/03.1	069/03.8	064/05.5	063/02.1
10	091/05.0	084/04.9	071/05.7	067/06.1	051/06.6	051/05.3	049/04.1	047/03.7	040/03.9	033/03.0	040/03.5	066/04.2	051/06.6	058/02.7
11	130/03.0	115/03.1	128/02.2	154/02.4	135/03.0	117/02.6	142/02.9	131/03.1	125/03.5	119/03.7	119/04.2	100/03.6	090/05.3	128/02.2
12	216/04.5	235/03.8	215/04.3	241/02.4	001/01.7	104/01.3	040/01.9	039/02.2	348/02.1	288/01.9	193/03.5	183/02.7	197/06.0	141/00.9
13	234/04.1	231/03.3	215/04.6	233/03.3	239/00.7	243/01.3	351/02.7	045/01.8	091/01.9	239/02.2	196/03.4	231/02.6	215/04.6	239/00.7
14	041/05.8	047/06.0	030/05.6	049/06.0	056/05.5	059/05.1	088/06.4	103/08.2	092/05.9	089/08.1	077/08.7	061/05.5	077/08.7	154/01.7
15	073/05.2	071/05.7	073/05.8	086/05.7	092/04.4	076/04.0	075/05.3	081/05.5	091/04.3	082/05.1	080/05.1	075/05.7	090/08.4	076/04.0
16	171/02.9	181/03.5	191/03.1	169/02.9	178/03.5	162/02.5	164/02.6	151/03.4	154/03.5	165/03.9	149/02.2	165/03.1	109/05.6	267/01.3
17	287/04.7	279/04.7	223/06.4	190/06.0	185/03.9	203/01.8	233/01.4	186/02.1	193/01.7	192/02.0	183/01.2	211/03.1	223/06.4	183/01.2
18	004/03.6	012/03.7	011/03.5	003/03.0	022/02.5	029/03.2	039/03.5	050/03.8	059/04.1	066/04.3	064/04.2	013/03.2	027/04.9	188/01.4
19	142/03.4	140/03.4	136/03.7	140/04.3	136/03.9	129/04.0	130/04.4	126/04.6	132/04.6	133/05.0	147/05.0	118/04.2	078/05.3	135/02.9
20	215/04.3	228/03.3	240/03.7	236/03.8	219/03.7	205/02.0	204/01.2	178/01.7	145/03.3	290/02.4	166/02.6	196/03.2	203/05.4	204/01.2
21	005/02.8	346/02.8	019/02.4	360/01.6	003/01.1	025/01.8	049/02.7	052/02.7	072/03.0	182/03.0	193/02.7	017/03.4	014/05.5	003/01.1
22	087/04.1	093/02.6	107/02.9	091/02.5	074/02.5	056/02.6	052/02.7	063/02.8	069/02.9	097/02.5	107/02.7	082/04.6	054/10.2	091/02.5
23	199/02.2	096/01.5	114/01.8	130/02.7	163/02.9	151/03.3	147/02.6	147/01.9	173/01.9	201/01.9	216/01.3	153/01.9	151/03.3	080/00.8
24	288/03.7	281/04.2	283/04.6	285/04.3	269/03.0	263/01.8	233/01.2	209/01.0	229/01.5	230/01.7	230/01.6	255/02.6	283/04.6	209/01.0
25	291/04.5	260/04.8	279/04.5	274/03.9	255/02.0	284/01.0	342/01.3	028/03.0	101/05.1	344/02.0	096/02.6	322/03.2	318/05.1	284/01.0
26	264/03.8	243/02.9	302/02.7	303/02.1	305/00.8	233/00.9	256/00.7	360/01.9	062/02.5	086/01.1	259/01.6	341/02.1	279/04.6	058/00.4
27	061/02.4	089/02.6	144/03.8	081/04.7	074/03.6	068/03.9	074/05.1	078/06.0	066/06.4	070/05.3	073/04.4	048/03.2	066/06.4	004/01.4
28	099/02.4	083/02.4	207/02.6	253/04.9	220/04.2	327/04.1	047/02.6	024/01.4	004/02.1	243/01.4	204/00.9	069/03.1	039/04.9	204/00.9
29			024/04.0	002/02.1	353/03.9	351/04.5	005/06.3	018/05.3	045/04.6	050/05.7	050/06.1	356/03.4	005/06.3	108/00.8
30	076/03.6	084/03.5	086/03.7	090/03.4	105/03.2	099/02.9	106/03.9	112/04.1	113/04.2	115/04.2	121/03.6	077/05.3	053/08.9	099/02.9
MEAN	106/04.0	110/03.8	114/04.0	103/03.9	099/03.6	088/03.2	079/03.4	081/03.7	088/03.9	102/03.7	122/03.6	095/03.7		
MX SPD	025/06.5	031/06.1	223/06.4	067/06.1	051/06.6	073/06.0	088/06.4	103/08.2	072/08.4	074/08.6	077/08.7		054/10.2	
MN SPD	199/02.2	096/01.5	114/01.8	360/01.6	239/00.7	233/00.9	256/00.7	209/01.0	229/01.5	086/01.1	204/00.9			058/00.4

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 714      DATA RECOVERY RATE = 99.2 %

MONTHLY MEAN = 095/03.7      MAXIMUM WIND SPEED WAS 10.2 mps AT 54 DEGREES ON 9/22 AT 700

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	165/08.6	167/07.8	161/08.2	159/06.5	164/04.8	153/03.8	154/06.7	162/08.2	166/07.7	164/07.4	164/07.5	160/07.3	163/07.0
02	159/06.7	149/06.3	141/05.9	138/06.6	137/06.8	140/06.3	155/08.2	158/09.1	154/09.0	164/08.1	158/07.8	159/08.1	150/08.0
03	164/06.6	165/05.8	164/06.2	162/06.1	159/05.3	169/05.1	180/05.0	185/05.3	187/06.0	181/06.0	176/04.9	187/05.2	168/05.0
04	192/04.9	244/02.6	241/03.9	299/02.8	205/02.8	179/03.9	178/04.2	185/05.0	183/03.4	170/04.0	142/05.5	135/05.8	137/05.1
05	170/03.7	184/04.6	192/05.2	182/04.5	186/04.2	183/05.0	182/03.5	191/05.2	185/04.8	169/05.0	136/05.9	136/06.3	119/06.3
06	194/04.9	189/05.1	179/06.2	184/05.9	181/06.1	177/05.4	173/04.7	188/04.5	188/04.4	164/04.4	150/06.0	142/07.1	147/06.8
07	172/06.0	175/05.7	180/06.1	185/04.6	185/04.1	185/04.0	186/04.0	201/05.6	204/05.4	201/04.4	184/03.8	202/03.7	122/04.1
08	178/05.9	185/05.7	186/05.5	186/05.8	185/06.3	184/06.0	197/02.6	204/03.7	207/03.6	178/03.8	152/04.6	143/05.6	159/06.0
09	187/06.3	185/06.6	207/04.0	219/02.9	214/02.8	220/02.8	219/02.7	198/04.5	200/04.8	193/05.0	174/05.6	163/06.5	158/06.9
10	193/04.6	191/04.6	190/04.5	170/05.2	153/04.8	149/04.7	179/05.3	171/07.6	169/06.9	165/06.7	156/07.2	141/07.4	138/07.3
11	166/05.6	149/06.3	130/07.1	128/06.6	124/06.3	127/05.7	154/08.0	167/09.3	176/08.1	183/06.5	172/05.7	168/04.6	176/05.0
12	166/07.3	164/07.0	161/07.2	160/07.4	170/06.2	169/06.0	173/08.8	177/08.3	190/06.9	201/06.7	205/06.0	188/05.3	183/05.4
13	076/05.2	067/05.3	093/05.1	113/05.9	134/04.7	161/03.3	170/04.9	181/07.2	192/06.5	195/04.3	192/03.6	178/03.1	169/03.8
14	063/03.4	329/02.3	315/04.2	326/04.4	360/03.5	350/01.6	108/03.1	130/03.5	126/02.1	123/02.8	142/03.3	127/02.9	130/03.6
15	174/06.3	171/06.7	182/05.6	186/05.0	173/05.5	168/04.8	168/05.4	172/08.1	174/08.0	162/06.6	144/07.0	134/06.8	140/06.2
16	177/05.7	182/06.3	179/04.6	174/04.9	169/05.2	164/05.7	165/05.5	171/05.4	173/05.1	151/05.8	133/07.1	135/07.8	128/08.4
17	134/05.3	151/05.1	160/04.7	149/04.5	166/04.9	142/03.6	149/04.5	140/05.5	149/05.1	137/05.9	120/06.8	139/06.8	134/07.5
18	177/04.7	190/03.3	214/01.8	188/01.5	163/01.9	140/03.1	153/03.5	186/05.2	178/04.7	156/04.3	133/05.8	142/05.6	148/05.2
19	130/06.1	144/04.7	174/03.8	185/03.1	183/04.5	190/03.7	189/01.8	205/03.9	205/03.0	177/02.4	155/03.7	157/03.3	160/03.0
20	177/05.3	180/05.5	171/05.4	168/04.4	160/05.7	159/04.7	172/04.7	176/05.3	184/05.0	183/05.8	183/05.1	164/04.4	148/05.1
21	170/06.3	177/06.5	183/06.0	184/04.7	167/05.7	155/05.3	166/07.0	176/08.1	177/06.6	162/06.2	141/06.1	131/06.1	129/05.7
22	172/08.0	169/06.9	165/06.2	157/04.7	137/05.0	142/03.5	142/05.1	153/06.1	168/03.6	145/04.2	139/06.7	142/06.5	131/06.2
23	181/06.4	159/06.2	160/06.3	165/05.4	181/03.2	203/03.0	166/05.0	163/06.5	177/05.2	176/04.7	180/03.4	147/03.6	147/04.4
24	162/05.4	158/05.9	139/03.9	121/05.0	105/05.6	111/06.1	140/07.2	166/08.6	169/05.7	155/05.3	149/05.4	162/05.0	154/05.8
25	169/06.6	165/05.9	157/05.2	143/05.3	139/05.8	126/05.2	144/03.9	183/04.3	178/04.1	155/03.0	167/03.1	188/04.2	150/03.5
26	193/05.3	200/05.1	189/04.8	187/04.7	182/04.4	173/05.3	166/04.7	181/04.3	196/03.6	171/04.8	167/05.8	167/06.3	156/05.8
27	181/07.8	173/07.0	170/06.3	169/06.0	175/05.1	188/03.5	167/04.8	167/07.7	175/06.2	163/04.6	154/05.1	149/04.8	185/04.6
28	182/06.1	184/06.1	182/05.4	175/04.8	157/05.4	143/05.5	154/06.3	164/07.9	169/07.9	159/07.7	150/08.1	149/08.7	151/08.1
29	177/05.8	172/05.5	162/06.1	155/03.0	107/01.8	091/02.8	090/01.7	155/04.6	179/03.8	137/02.7	097/04.3	124/07.3	123/07.0
30	133/03.6	157/04.8	200/05.0	220/03.0	313/00.8	051/01.9	152/03.9	184/04.8	182/04.4	181/03.0	111/03.2	099/05.1	094/05.8
31	168/04.9	169/05.3	171/05.5	174/04.4	158/04.2	144/04.9	161/07.5	170/08.6	174/07.2	168/06.4	159/06.4	170/06.1	149/06.2
MEAN	167/05.8	172/05.6	174/05.4	171/04.8	164/04.6	157/04.4	163/05.0	175/06.2	179/05.4	167/05.1	154/05.5	152/05.7	147/05.8
MX SPD	165/08.6	167/07.8	161/08.2	160/07.4	137/06.8	140/06.3	173/08.8	167/09.3	154/09.0	164/08.1	150/08.1	149/08.7	128/08.4
MN SPD	063/03.4	329/02.3	214/01.8	188/01.5	313/00.8	350/01.6	090/01.7	130/03.5	126/02.1	177/02.4	167/03.1	127/02.9	160/03.0

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for JULY, 2011

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HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	159/06.7	158/07.5	155/07.4	157/07.7	155/08.1	151/09.5	156/08.9	159/08.7	160/08.7	164/08.6	162/07.3	160/07.5	151/09.5	153/03.8
02	144/08.0	149/07.9	148/08.0	142/07.1	147/07.0	145/07.2	152/06.6	164/06.1	168/06.6	166/06.1	163/06.3	152/07.2	158/09.1	141/05.9
03	172/05.2	161/04.9	162/05.5	144/06.2	131/11.8	140/08.9	130/06.3	136/06.1	145/06.4	161/07.6	176/06.6	163/06.2	131/11.8	176/04.9
04	152/05.4	144/06.2	150/05.9	138/04.4	138/03.9	144/05.0	143/06.9	113/05.5	120/04.0	118/04.7	162/04.8	161/04.6	143/06.9	244/02.6
05	130/06.3	126/06.8	134/06.4	138/06.9	131/05.8	129/05.9	133/05.6	137/06.1	144/05.9	158/05.9	178/04.5	156/05.4	138/06.9	182/03.5
06	135/06.5	129/06.9	132/06.9	128/07.0	128/06.7	134/05.8	125/06.4	129/07.1	135/06.6	137/06.7	143/07.2	154/06.1	143/07.2	188/04.4
07	147/04.7	159/03.9	161/05.2	160/04.5	148/05.3	144/06.0	141/05.9	149/06.3	150/06.3	155/07.0	166/05.9	169/05.1	155/07.0	202/03.7
08	135/06.4	148/06.1	152/06.6	155/06.6	154/06.5	151/06.8	153/06.7	160/06.5	179/06.3	184/06.6	185/06.2	171/05.7	151/06.8	197/02.6
09	156/07.4	147/07.6	143/06.9	139/08.0	140/08.6	150/08.7	150/07.1	152/06.5	165/07.0	180/06.9	188/06.3	177/05.9	150/08.7	219/02.7
10	131/07.3	138/07.4	141/07.4	138/07.8	141/08.0	141/08.3	151/08.0	160/07.0	165/07.3	169/06.4	174/06.0	159/06.6	141/08.3	190/04.5
11	166/04.8	142/05.7	144/06.1	151/06.4	169/06.3	161/07.9	168/08.7	179/10.5	171/07.8	172/07.8	164/07.4	159/06.8	179/10.5	168/04.6
12	171/05.1	196/05.9	185/08.2	158/11.4	157/06.7	152/05.8	156/04.3	128/05.2	113/06.0	139/05.2	122/05.1	166/06.6	158/11.4	156/04.3
13	138/06.0	174/06.5	163/07.1	192/06.7	207/05.7	340/12.2	344/08.7	328/03.5	008/02.6	050/03.0	053/04.8	145/05.4	340/12.2	008/02.6
14	161/04.5	183/04.0	169/03.9	179/04.4	162/05.3	153/06.0	186/05.2	230/04.8	204/05.7	175/06.2	173/05.7	154/04.0	175/06.2	350/01.6
15	149/05.7	162/05.9	134/06.4	138/06.1	135/06.2	135/06.3	139/05.8	137/05.8	138/06.3	145/06.2	165/06.8	155/06.2	172/08.1	168/04.8
16	129/08.1	129/07.9	121/08.5	116/07.5	137/09.6	147/08.0	134/07.5	132/07.1	126/06.7	131/07.2	132/06.2	147/06.7	137/09.6	179/04.6
17	134/07.8	119/07.4	130/07.5	124/07.3	118/07.6	126/07.0	123/05.1	110/05.5	134/05.5	150/05.1	164/05.4	138/05.9	134/07.8	142/03.6
18	119/05.3	122/05.2	118/04.7	115/04.8	114/05.2	124/04.6	101/04.9	099/05.7	112/05.6	122/06.7	122/06.5	142/04.6	122/06.7	188/01.5
19	128/03.7	123/04.5	150/05.3	135/05.3	121/04.6	140/05.4	143/05.9	159/06.1	185/05.7	194/04.8	192/04.8	164/04.3	130/06.1	189/01.8
20	155/06.0	114/05.5	141/06.3	132/07.0	133/07.1	133/06.7	129/06.3	148/05.4	149/04.8	162/06.6	173/06.3	158/05.6	133/07.1	168/04.4
21	125/05.3	137/05.9	130/05.7	139/06.7	139/07.3	147/07.6	149/07.4	152/07.2	158/06.8	169/08.0	169/08.6	156/06.5	169/08.6	184/04.7
22	139/05.6	129/05.8	120/05.8	111/06.3	112/06.2	155/07.1	186/08.4	187/07.0	200/04.0	211/04.0	200/04.1	154/05.7	186/08.4	142/03.5
23	178/05.3	181/05.4	158/06.5	169/06.4	161/07.1	173/06.0	169/07.1	168/07.0	169/08.0	166/07.8	167/06.7	169/05.7	169/08.0	203/03.0
24	158/06.2	165/06.1	168/06.0	161/06.8	165/06.8	166/06.7	161/06.3	154/06.2	162/06.0	171/06.7	173/06.4	154/06.0	166/08.6	139/03.9
25	144/03.9	139/04.5	135/04.3	131/05.1	149/04.7	136/05.2	124/06.6	129/07.2	144/07.1	165/07.1	185/06.1	152/05.1	129/07.2	155/03.0
26	166/05.5	178/05.6	187/05.6	181/05.0	166/05.8	154/06.1	149/06.7	156/07.3	163/07.1	173/08.7	180/07.8	174/05.7	173/08.7	196/03.6
27	137/05.0	135/04.7	146/05.1	144/05.3	136/05.9	142/07.0	138/07.6	141/07.1	156/06.9	172/07.3	179/06.7	160/05.9	181/07.8	188/03.5
28	136/07.0	131/07.0	140/07.0	127/07.1	131/06.4	130/05.5	117/06.2	111/07.2	124/06.9	153/07.1	170/06.2	150/06.7	149/08.7	175/04.8
29	098/06.8	105/05.8	003/07.7	128/04.1	123/07.9	120/06.8	115/06.4	108/06.7	096/06.2	093/05.3	088/05.4	120/05.2	123/07.9	090/01.7
30	109/06.5	115/07.9	138/09.0	231/03.5	134/06.0	123/07.2	132/07.0	168/08.5	170/07.5	164/06.7	172/05.9	150/05.2	138/09.0	313/00.8
31	139/06.7	148/06.9	152/07.4	145/07.3	147/07.7	147/07.2	150/05.7	162/06.0	166/07.2	170/07.9	177/06.8	160/06.4	170/08.6	158/04.2
MEAN	143/06.0	144/06.1	146/06.5	146/06.3	143/06.7	142/06.9	143/06.7	147/06.5	151/06.3	158/06.5	165/06.2	157/05.8		
MX SPD	129/08.1	149/07.9	138/09.0	158/11.4	131/11.8	340/12.2	156/08.9	179/10.5	160/08.7	173/08.7	169/08.6		340/12.2	
MN SPD	128/03.7	159/03.9	169/03.9	231/03.5	138/03.9	124/04.6	156/04.3	328/03.5	008/02.6	050/03.0	200/04.1			313/00.8

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 157/05.8      MAXIMUM WIND SPEED WAS 12.2 mps AT 340 DEGREES ON 7/13 AT 1900

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	179/07.4	189/05.0	183/03.3	177/04.3	169/04.7	165/05.3	169/05.5	179/07.6	180/06.8	174/06.2	171/05.8	165/05.3	179/05.2
02	176/06.5	180/05.7	182/05.7	171/05.9	167/06.5	166/06.1	170/05.4	175/07.6	178/06.6	170/06.6	160/05.6	158/05.2	147/05.4
03	183/06.6	179/05.1	172/05.6	190/04.3	191/02.4	304/02.0	072/01.9	107/01.8	155/01.3	152/03.0	140/06.3	144/07.5	131/07.4
04	199/03.4	194/04.7	188/04.9	190/02.7	177/02.7	119/03.6	024/02.8	062/02.1	171/01.9	145/03.0	148/04.8	139/04.3	159/03.8
05	187/05.0	184/04.8	176/05.9	179/05.3	166/06.0	162/06.4	165/06.1	183/07.2	184/06.5	158/05.5	152/06.3	163/05.7	152/05.5
06	202/05.0	199/05.0	188/05.2	178/05.4	175/05.0	194/03.8	183/05.9	195/06.8	192/05.8	178/05.1	150/05.2	132/05.3	152/04.4
07	178/08.0	184/06.9	187/05.7	183/05.9	173/06.0	169/05.8	174/06.8	172/08.1	170/07.1	164/07.0	164/05.6	159/04.8	153/03.9
08	180/05.5	186/05.2	186/06.0	186/06.2	190/05.6	176/06.7	174/06.3	186/08.1	199/06.3	189/05.1	184/05.7	187/04.8	187/03.8
09	174/07.3	176/06.5	190/04.8	203/04.0	188/03.6	170/04.4	173/05.2	173/06.3	159/05.1	152/04.6	140/05.4	131/06.3	132/07.0
10	186/06.8	190/06.1	178/06.0	163/06.2	166/05.5	172/05.7	167/05.6	180/06.5	194/05.1	199/04.0	196/02.9	092/02.6	115/03.3
11	155/05.9	166/05.5	182/04.8	209/04.2	206/03.0	218/03.7	249/04.0	288/05.0	330/05.1	060/04.1	092/02.6	124/04.4	120/03.6
12	129/05.6	124/06.3	142/06.8	153/05.9	186/03.9	206/03.9	214/03.5	236/04.5	230/04.4	194/04.0	193/03.8	157/02.4	130/03.3
13	213/04.7	321/04.6	032/05.6	052/05.3	084/03.6	090/04.9	115/05.3	134/05.2	126/06.0	149/04.8	126/04.0	124/05.9	092/07.4
14	119/04.8	126/04.6	118/03.6	096/04.4	086/05.3	077/05.9	090/05.1	121/04.2	135/04.1	102/02.4	077/03.0	099/03.8	091/05.8
15	140/03.4	139/03.9	138/05.1	148/05.0	155/03.6	145/03.2	140/04.6	162/05.8	179/06.1	187/05.8	193/05.2	201/04.5	218/04.8
16	172/06.0	171/05.5	170/05.4	167/04.9	172/04.5	165/05.0	168/06.3	174/07.1	176/06.6	182/05.6	173/04.8	170/05.1	169/04.3
17	219/02.2	327/02.3	023/05.5	022/05.4	011/03.9	025/05.2	061/04.5	102/04.0	142/03.4	168/02.6	159/03.2	146/04.8	152/06.1
18	164/06.5	174/04.9	199/03.5	272/03.0	252/02.5	248/01.8	229/02.1	190/04.9	201/05.5	203/04.7	191/04.0	159/04.5	153/04.3
19	186/05.2	185/05.4	185/05.4	185/04.9	189/04.9	194/03.5	193/03.9	184/06.1	196/04.3	177/04.1	144/05.7	137/05.9	130/05.9
20	154/06.3	147/06.5	144/06.1	131/06.8	131/07.2	138/05.6	146/05.0	173/07.8	188/06.9	196/06.2	189/05.5	167/04.8	181/05.2
21	166/06.4	169/06.7	167/07.1	163/06.9	160/06.2	155/05.6	153/03.2	165/04.3	159/03.6	144/05.0	137/05.6	140/05.5	133/05.3
22	166/06.9	168/06.7	166/06.4	169/04.8	173/04.7	189/02.8	190/02.5	188/05.1	188/05.6	181/04.8	159/05.2	151/05.2	132/05.4
23	201/03.7	188/04.3	183/05.6	182/05.1	173/06.1	174/04.9	177/04.8	187/07.7	187/06.4	173/06.4	167/06.9	168/06.1	149/05.6
24	177/06.7	181/05.9	177/05.5	185/05.1	187/03.9	188/03.8	184/03.2	187/04.6	188/04.2	163/04.2	131/05.1	129/05.4	141/04.6
25	151/05.9	182/04.2	198/03.7	202/03.7	207/03.1	295/01.7	037/04.1	091/01.7	191/01.6	156/01.5	098/02.7	104/04.5	112/04.3
26	300/01.5	342/01.5	016/02.1	028/02.7	020/02.8	036/05.1	060/04.2	091/01.7	087/01.6	142/01.9	131/02.5	130/03.4	163/04.0
27	169/07.3	185/04.3	184/03.3	189/03.2	198/02.4	220/02.2	279/01.5	270/01.8	214/02.8	193/02.7	109/03.7	125/04.3	124/04.4
28	192/06.9	199/04.4	221/02.9	234/02.6	210/02.5	248/02.2	274/02.6	249/03.4	223/06.2	212/05.7	205/05.4	201/05.1	193/05.4
29	205/03.4	236/03.0	235/02.9	265/02.3	315/04.3	356/03.1	093/03.5	131/03.2	194/04.0	217/04.3	251/05.3	273/05.1	275/04.0
30	191/08.3	188/07.4	181/07.0	175/07.4	182/06.2	181/06.2	193/05.9	197/07.1	216/08.7	216/07.9	226/07.5	225/06.1	232/04.6
31	175/09.6	179/07.6	181/06.7	178/07.4	167/08.3	180/07.2	199/05.2	183/07.9	183/07.1	181/06.5	182/07.4	181/06.7	160/06.6
MEAN	178/05.8	181/05.2	176/05.1	178/04.9	176/04.5	176/04.4	165/04.4	171/05.3	182/05.1	172/04.7	159/04.9	152/05.0	150/05.0
MX SPD	175/09.6	179/07.6	167/07.1	175/07.4	167/08.3	180/07.2	174/06.8	172/08.1	216/08.7	216/07.9	226/07.5	144/07.5	131/07.4
MN SPD	300/01.5	342/01.5	016/02.1	265/02.3	191/02.4	295/01.7	279/01.5	091/01.7	155/01.3	156/01.5	131/02.5	157/02.4	115/03.3

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for AUGUST, 2011

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HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	182/05.7	161/05.5	180/05.7	177/05.1	175/04.8	168/05.0	150/05.7	141/06.8	143/07.2	156/07.1	168/06.8	170/05.7	179/07.6	183/03.3
02	132/03.6	134/04.0	134/04.2	131/06.4	143/05.6	133/06.1	131/06.7	142/06.8	154/07.3	169/05.1	176/06.0	158/05.9	175/07.6	132/03.6
03	139/06.8	138/05.7	130/06.4	130/06.0	143/06.9	147/06.1	141/05.0	143/05.7	161/06.3	172/05.9	196/03.4	152/05.0	144/07.5	155/01.3
04	145/05.0	130/05.9	124/05.2	152/05.0	175/04.4	142/05.2	144/05.2	158/05.9	158/06.7	171/07.1	189/04.6	155/04.4	171/07.1	171/01.9
05	146/05.4	150/05.1	186/05.6	173/05.0	147/06.6	145/06.5	143/06.4	144/06.6	161/06.6	180/05.9	201/04.4	166/05.8	183/07.2	201/04.4
06	146/03.8	115/03.9	233/02.4	088/02.8	117/03.4	109/04.1	104/06.5	115/07.2	146/05.8	169/06.6	172/08.2	160/05.1	172/08.2	233/02.4
07	113/04.2	127/04.0	132/04.1	107/04.4	032/05.2	260/05.5	202/03.8	164/02.6	156/02.4	165/04.8	174/06.9	164/05.4	172/08.1	156/02.4
08	107/03.4	130/03.5	173/02.9	128/03.3	110/04.3	119/04.5	130/06.6	138/06.4	151/07.0	164/07.9	168/07.0	165/05.5	186/08.1	173/02.9
09	135/07.5	137/07.4	134/06.9	137/06.3	136/07.1	124/06.0	130/06.6	137/06.2	142/06.2	158/07.5	176/07.1	154/06.1	135/07.5	188/03.6
10	153/03.7	161/03.0	135/03.9	163/02.9	152/03.3	134/04.7	153/07.9	166/07.5	205/04.3	183/04.6	158/05.7	166/04.9	153/07.9	092/02.6
11	179/05.7	229/09.1	217/05.2	330/07.3	338/05.7	060/05.1	050/08.4	056/08.8	073/07.6	105/06.6	139/06.5	148/05.5	229/09.1	092/02.6
12	122/05.0	136/03.6	139/04.9	127/05.3	145/05.7	221/05.8	280/03.2	343/02.7	323/01.9	319/02.0	210/03.9	178/04.3	142/06.8	323/01.9
13	104/08.4	102/09.0	108/08.6	121/08.2	119/07.7	125/06.9	136/05.6	133/04.9	122/04.7	129/04.9	122/04.4	114/05.9	102/09.0	084/03.6
14	146/07.8	163/08.6	156/07.5	151/06.2	145/06.1	134/04.7	152/04.5	160/04.1	158/03.3	165/04.3	148/04.4	126/04.9	163/08.6	102/02.4
15	217/04.7	174/05.3	167/06.7	170/06.2	178/05.6	172/06.5	163/06.0	154/07.0	163/06.9	184/05.9	181/05.8	169/05.3	154/07.0	145/03.2
16	163/05.1	164/04.9	147/05.5	160/05.2	155/05.4	151/06.7	144/06.8	145/07.1	150/06.4	252/02.1	201/02.5	168/05.4	174/07.1	252/02.1
17	164/05.4	134/05.0	152/04.4	130/04.6	135/04.4	151/05.3	148/04.7	127/05.3	132/05.1	126/06.8	152/06.2	128/04.6	126/06.8	219/02.2
18	137/05.0	172/04.8	137/05.2	150/05.6	150/05.8	150/05.6	150/05.7	151/05.8	157/06.2	169/07.1	188/04.6	178/04.7	169/07.1	248/01.8
19	143/06.4	146/05.9	145/06.0	151/06.1	143/06.5	140/06.4	140/06.4	139/06.1	143/06.4	150/06.6	155/06.7	161/05.6	155/06.7	194/03.5
20	175/03.3	197/03.7	145/05.1	147/07.2	144/07.6	151/07.9	149/08.2	156/06.8	171/06.6	166/07.0	164/06.2	160/06.2	149/08.2	175/03.3
21	131/05.0	143/05.3	138/06.7	142/06.4	135/07.1	126/06.3	114/06.3	106/07.2	114/07.8	122/07.4	150/05.7	143/05.9	114/07.8	153/03.2
22	147/05.2	144/05.1	142/05.0	132/04.8	156/05.0	156/05.4	147/05.5	155/05.7	157/05.9	165/07.6	175/06.1	162/05.3	165/07.6	190/02.5
23	156/05.3	155/05.1	152/04.9	143/04.8	139/04.8	140/04.6	133/06.6	138/06.6	146/07.1	143/06.5	151/06.7	163/05.7	187/07.7	201/03.7
24	127/05.4	134/05.6	128/04.8	127/05.8	123/05.6	126/05.4	124/06.2	125/07.1	128/07.0	138/06.6	142/06.0	151/05.3	125/07.1	184/03.2
25	124/04.7	128/04.5	117/04.1	129/03.9	102/04.9	111/10.9	136/07.6	172/02.7	153/02.3	190/03.5	247/02.5	147/03.9	111/10.9	156/01.5
26	126/03.6	119/04.1	108/04.3	142/04.5	134/05.2	133/05.4	133/05.8	137/05.8	147/05.4	155/04.9	163/06.5	111/03.8	163/06.5	300/01.5
27	139/03.7	143/04.6	113/03.8	149/04.4	147/05.1	137/05.3	138/05.5	141/06.0	145/07.5	157/07.7	161/07.7	163/04.4	157/07.7	279/01.5
28	195/05.7	196/06.0	194/05.9	197/05.0	194/04.8	183/04.8	181/06.9	180/07.9	183/06.4	190/04.8	200/03.3	206/04.9	180/07.9	248/02.2
29	254/04.7	214/04.6	194/04.0	188/03.9	192/05.1	171/05.4	171/06.6	181/05.4	183/07.4	179/09.8	185/10.3	211/04.8	185/10.3	265/02.3
30	196/04.2	196/04.9	194/04.6	088/05.0	215/05.7	250/03.6	178/04.3	180/08.3	163/09.6	176/10.1	183/10.5	194/06.7	183/10.5	250/03.6
31	170/06.4	159/07.3	157/08.6	157/09.1	170/09.7	170/08.3	169/07.0	169/07.3	172/07.5	172/07.0	173/06.8	174/07.5	170/09.7	199/05.2
MEAN	150/05.2	152/05.3	151/05.3	143/05.4	146/05.6	147/05.8	145/06.1	145/06.1	152/06.1	164/06.2	173/05.9	161/05.3		
MX SPD	104/08.4	229/09.1	108/08.6	157/09.1	170/09.7	111/10.9	050/08.4	056/08.8	163/09.6	176/10.1	183/10.5		111/10.9	
MN SPD	175/03.3	161/03.0	233/02.4	088/02.8	152/03.3	250/03.6	280/03.2	164/02.6	323/01.9	319/02.0	201/02.5			155/01.3

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 161/05.3 MAXIMUM WIND SPEED WAS 10.9 mps AT 111 DEGREES ON 8/25 AT 1900

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	175/06.2	174/05.5	173/04.9	175/04.6	169/06.0	167/07.0	169/08.1	171/11.0	174/09.6	172/08.2	153/07.1	148/06.8	144/06.0
02	132/05.7	135/05.5	150/04.2	163/03.3	176/02.8	165/02.9	176/03.3	175/06.4	177/06.8	167/05.6	155/05.9	168/05.9	154/05.9
03	185/02.3	177/03.7	176/03.0	110/01.6	130/01.9	138/02.5	153/02.0	202/01.4	212/01.9	181/03.1	142/03.6	093/03.4	097/03.5
04	029/11.8	030/12.0	037/12.8	019/10.1	014/09.1	022/09.9	033/11.6	026/10.0	023/08.9	019/09.1	028/09.6	027/09.0	027/08.2
05	040/05.2	041/05.7	047/06.1	047/06.2	042/06.5	032/05.7	038/05.3	066/06.5	070/06.2	065/05.4	049/04.6	051/04.7	050/05.1
06	120/06.6	118/06.9	127/06.8	139/05.1	161/03.7	174/03.8	179/03.7	175/04.7	182/06.1	183/05.5	171/04.3	185/03.8	161/04.3
07	135/07.0	139/08.0	139/06.3	137/06.1	143/08.0	141/07.1	131/04.2	132/02.9	155/04.0	171/05.7	153/05.1	142/05.5	137/04.8
08	070/07.9	069/07.8	070/06.5	063/06.8	061/06.6	053/06.8	052/05.8	068/06.2	074/05.8	083/04.6	093/03.5	080/02.2	061/03.0
09	113/07.0	104/05.3	102/05.1	119/04.5	108/02.8	080/02.9	047/04.5	047/03.9	053/04.2	076/03.3	060/04.3	069/04.4	079/03.8
10	085/04.9	094/04.8	082/04.9	082/04.1	076/04.6	077/05.0	066/05.2	079/04.1	065/05.1	077/05.5	086/05.6	102/06.1	093/05.8
11	048/06.9	041/07.0	037/08.3	038/08.4	035/08.5	039/09.0	044/07.5	068/05.8	087/06.1	096/04.9	109/02.9	162/03.0	163/02.8
12	135/06.7	165/05.8	178/04.3	171/04.3	181/03.5	177/03.4	182/03.2	201/01.8	208/02.4	213/05.3	197/07.1	204/05.9	213/05.3
13	204/04.5	196/04.0	190/03.9	177/05.9	166/05.5	201/03.2	232/03.5	242/04.2	264/04.0	320/03.7	282/02.5	312/02.9	274/03.0
14	237/04.2	174/02.7	137/03.3	159/04.6	157/04.1	039/04.3	016/06.2	020/07.1	027/07.2	030/08.7	047/10.2	028/08.5	026/07.8
15	022/08.2	028/07.0	031/06.4	038/06.2	064/09.7	091/10.3	081/08.1	080/08.9	087/08.4	093/08.0	098/06.7	100/05.8	088/06.2
16	017/03.9	094/03.9	108/06.7	109/07.0	115/02.6	045/02.4	267/01.2	206/02.6	204/03.5	200/04.8	199/04.1	196/03.0	182/03.2
17	171/05.7	175/05.7	180/06.0	185/06.0	201/04.2	201/04.6	207/03.3	236/03.1	250/04.6	223/05.1	227/05.0	257/04.9	259/04.3
18	205/03.8	205/03.8	233/03.3	227/02.8	243/02.8	238/02.5	306/01.7	005/04.5	029/05.6	028/05.7	028/05.4	024/05.0	013/04.2
19	080/07.5	088/08.1	091/08.4	087/07.6	081/06.9	083/06.0	083/04.9	106/05.0	137/05.2	143/04.8	156/04.0	139/03.5	136/03.2
20	154/06.4	170/04.7	178/04.9	188/05.2	174/05.3	167/06.1	179/04.5	184/05.5	202/06.2	204/05.2	200/05.0	217/04.6	217/04.5
21	180/05.6	205/04.2	271/01.8	016/06.7	016/07.6	020/07.8	010/06.9	015/06.6	017/06.0	011/05.2	008/04.7	005/04.0	357/03.8
22	187/05.2	199/05.1	203/05.4	149/04.4	048/09.2	050/11.1	053/13.0	063/11.7	059/09.6	049/07.8	062/07.8	064/07.2	073/06.5
23	139/03.3	122/02.5	125/02.5	152/01.2	158/01.0	183/01.0	221/01.7	222/01.4	202/02.4	233/01.8	212/02.2	182/01.7	153/02.2
24	206/04.1	211/03.8	229/03.8	226/04.3	234/04.2	236/04.4	230/04.1	211/04.3	214/04.6	229/05.2	264/04.1	298/03.7	289/04.1
25	272/04.7	298/06.5	308/04.9	305/05.2	312/06.8	310/08.3	314/08.2	318/05.9	317/06.1	318/04.4	042/03.2	103/01.9	282/03.1
26	114/05.2	109/04.3	109/03.9	117/02.5	101/01.8	093/02.0	083/02.3	133/01.3	046/01.3	307/02.7	276/04.0	278/05.4	276/05.1
27	251/02.4	308/04.7	014/04.9	044/03.0	037/04.9	029/02.6	025/03.4	333/03.1	345/02.6	346/02.4	055/02.3	119/01.9	118/01.7
28	079/06.4	096/07.1	111/07.9	088/06.8	354/05.6	044/08.5	067/07.1	095/02.7	106/01.4	038/02.6	101/03.4	085/03.5	056/03.5
29	191/02.4	187/06.0	186/06.0	196/05.2	220/02.9	231/02.4	289/02.7	303/02.7	315/02.6				
30	054/09.4	048/09.2	049/10.6	051/10.2	045/10.7	044/10.0	046/09.5	052/11.3	065/09.9	068/08.2	072/07.6	080/05.9	074/04.5
MEAN	135/05.7	133/05.7	129/05.6	121/05.3	113/05.3	098/05.5	079/05.2	107/05.2	103/05.3	102/05.3	111/05.0	111/04.6	108/04.5
MX SPD	029/11.8	030/12.0	037/12.8	051/10.2	045/10.7	050/11.1	053/13.0	063/11.7	065/09.9	019/09.1	047/10.2	027/09.0	027/08.2
MN SPD	185/02.3	122/02.5	271/01.8	152/01.2	158/01.0	183/01.0	267/01.2	133/01.3	046/01.3	233/01.8	212/02.2	182/01.7	118/01.7

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for SEPTEMBER, 2011

PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	134/06.0	148/06.4	146/05.7	133/06.1	137/06.6	133/05.4	133/05.8	126/06.4	118/07.2	127/06.2	134/06.4	151/06.6	171/11.0	175/04.6
02	155/05.6	163/04.6	163/05.1	143/04.9	152/04.7	134/05.3	130/06.4	129/07.0	134/06.6	141/06.5	165/02.7	154/05.1	129/07.0	165/02.7
03	080/04.3	082/05.0	092/04.8	083/04.9	085/05.1	077/05.2	093/05.4	056/07.3	057/09.1	059/07.3	025/08.8	113/04.2	057/09.1	202/01.4
04	025/07.7	030/07.3	029/06.8	028/06.7	027/06.7	029/06.4	028/06.4	033/05.4	025/04.0	026/04.0	031/05.3	027/08.3	037/12.8	025/04.0
05	050/04.5	065/04.2	068/03.6	060/04.1	065/04.3	060/04.7	065/04.3	073/04.8	078/05.7	091/05.9	116/06.2	059/05.2	042/06.5	068/03.6
06	156/03.4	168/04.1	150/03.5	143/04.3	140/05.1	136/05.6	141/05.9	139/06.9	139/07.5	138/07.8	136/07.3	152/05.3	138/07.8	156/03.4
07	141/05.4	116/05.0	110/06.5	118/06.2	093/06.7	073/08.1	076/08.5	076/09.4	071/10.7	075/10.7	077/08.9	121/06.7	071/10.7	132/02.9
08	085/03.1	124/03.2	101/03.0	084/02.6	087/04.2	085/05.1	084/05.4	087/06.3	089/06.9	094/06.8	104/06.2	080/05.3	070/07.9	080/02.2
09	072/04.4	054/03.8	063/06.5	074/06.0	075/06.1	065/06.6	064/07.4	065/07.6	070/08.2	079/06.6	084/04.9	076/05.2	070/08.2	108/02.8
10	091/05.7	082/05.7	070/06.5	066/07.3	051/08.4	050/07.2	050/06.1	050/06.5	047/06.7	038/06.0	043/06.5	071/05.8	051/08.4	082/04.1
11	129/03.5	117/03.5	124/02.4	150/02.8	132/03.6	128/04.3	158/05.0	148/05.5	141/06.3	131/07.1	126/07.5	104/05.5	039/09.0	124/02.4
12	218/05.2	235/04.5	218/05.0	243/02.9	328/02.3	123/01.6	050/01.8	034/02.7	355/02.1	328/02.1	200/06.4	197/04.0	197/07.1	123/01.6
13	234/04.8	233/03.8	216/05.4	233/03.9	233/01.2	244/03.6	355/04.2	022/03.3	057/03.0	223/04.2	192/05.6	235/03.9	177/05.9	233/01.2
14	039/07.1	045/07.1	030/06.9	048/07.3	056/07.0	060/06.9	087/08.4	102/10.5	092/07.7	090/10.0	078/10.8	063/07.0	078/10.8	174/02.7
15	072/06.0	071/06.6	073/06.6	086/06.6	091/05.2	076/04.8	075/06.3	081/06.6	091/05.2	081/06.2	079/06.2	075/06.9	091/10.3	076/04.8
16	171/03.3	181/04.0	189/03.6	170/03.3	175/04.5	174/05.3	173/06.2	161/05.9	162/07.0	166/06.5	160/04.5	167/04.3	109/07.0	267/01.2
17	287/05.6	280/05.5	223/07.5	190/06.9	184/05.5	194/04.0	213/03.9	202/04.8	209/04.6	201/04.5	198/03.6	213/05.0	223/07.5	236/03.1
18	004/04.1	014/04.3	011/04.2	004/03.6	022/03.6	030/05.4	047/06.0	064/06.9	074/07.0	079/06.7	082/06.7	019/04.6	074/07.0	306/01.7
19	142/03.8	138/03.9	133/04.2	141/04.9	135/04.9	135/06.4	136/07.2	133/07.3	135/07.0	136/07.4	149/07.4	122/05.8	091/08.4	136/03.2
20	213/04.9	232/03.8	240/04.3	237/04.6	221/05.4	219/04.9	219/04.4	191/04.2	156/05.9	268/03.3	188/03.3	200/04.9	154/06.4	268/03.3
21	005/03.2	346/03.3	017/02.7	004/01.8	008/01.2	025/01.6	058/02.9	073/03.3	091/04.7	176/05.3	189/05.1	018/04.4	020/07.8	008/01.2
22	087/04.8	089/03.0	106/03.4	087/03.0	074/03.0	067/04.0	072/04.1	094/03.7	099/03.7	114/04.6	129/04.8	088/06.1	053/13.0	089/03.0
23	208/02.3	088/01.6	113/01.8	133/03.0	165/04.3	159/05.2	163/04.4	163/04.7	172/05.6	192/05.2	207/05.0	170/02.8	172/05.6	158/01.0
24	288/04.3	279/05.0	283/05.5	285/05.3	270/04.8	256/05.0	243/04.8	244/04.0	240/04.9	243/05.0	254/04.3	248/04.5	283/05.5	298/03.7
25	291/05.3	262/05.6	279/05.2	274/04.7	257/03.7	263/03.1	269/02.2	120/04.6	105/08.4	144/02.8	111/04.5	294/05.0	105/08.4	103/01.9
26	265/04.4	247/03.3	299/03.1	303/02.5	297/00.8	238/01.8	271/02.1	306/01.8	083/02.5	162/00.8	204/01.6	236/02.8	278/05.4	297/00.8
27	059/02.6	085/02.9	143/04.4	079/05.8	076/05.1	072/06.4	082/07.7	081/08.8	069/09.4	076/08.3	084/06.7	056/04.5	069/09.4	118/01.7
28	086/02.8	086/02.8	191/03.1	253/06.1	217/05.8	309/05.8	036/03.3	314/01.4	345/02.0	227/01.9	202/01.8	075/04.3	044/08.5	106/01.4
29			032/04.8	009/02.7	340/06.2	352/06.5	006/08.6	027/06.6	048/07.6	053/09.2	052/09.8	338/05.3	052/09.8	191/02.4
30	075/04.1	084/04.1	086/04.1	090/04.0	108/04.6	111/05.6	116/07.1	122/07.8	125/07.9	131/07.6	137/06.9	080/07.5	052/11.3	090/04.0
MEAN	103/04.6	106/04.4	113/04.7	102/04.6	102/04.7	098/05.1	090/05.4	094/05.7	095/06.2	121/05.9	131/05.9	110/05.2		
MX SPD	025/07.7	030/07.3	223/07.5	066/07.3	051/08.4	073/08.1	006/08.6	102/10.5	071/10.7	075/10.7	078/10.8		053/13.0	
MN SPD	208/02.3	088/01.6	113/01.8	004/01.8	297/00.8	123/01.6	050/01.8	314/01.4	345/02.0	162/00.8	204/01.6			297/00.8

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 714      DATA RECOVERY RATE = 99.2 %

MONTHLY MEAN = 110/05.2      MAXIMUM WIND SPEED WAS 13 mps AT 53 DEGREES ON 9/22 AT 700

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS



**Appendix B.2**  
**Joint Frequency of Occurrence Distributions of Wind Speeds and Directions**

National Enrichment Facility

10M Joint Frequency Distribution

July, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.4	.0	.1	.0	.0	.0	.5	3.3
NNE	.4	.0	.0	.0	.0	.0	.4	2.2
NE	.5	.0	.0	.0	.0	.0	.5	1.7
ENE	.1	.7	.0	.0	.0	.0	.8	3.2
E	.5	1.5	.0	.0	.0	.0	2.0	3.5
ESE	1.2	6.0	.8	.0	.0	.0	8.1	4.2
SE	2.4	17.6	4.6	.0	.0	.0	24.6	4.8
SSE	7.8	20.8	7.1	.0	.0	.0	35.8	4.5
S	4.2	13.7	2.6	.0	.0	.0	20.4	4.2
SSW	1.6	2.7	.0	.0	.0	.0	4.3	3.4
SW	.4	.1	.0	.0	.0	.0	.5	2.3
WSW	.4	.1	.0	.0	.0	.0	.5	1.8
W	.1	.0	.0	.0	.0	.0	.1	1.5
WNW	.1	.0	.0	.0	.0	.0	.1	1.8
NW	.4	.0	.0	.0	.0	.0	.4	2.3
NNW	.4	.1	.1	.0	.0	.0	.7	4.6
CALM							.1	
TOTAL	21.1	63.4	15.3	.0	.0	.0	100.0	4.3
TOTAL NUMBER OF OBSERVATIONS	744							
POSSIBLE NUMBER OF OBSERVATIONS	744							
DATA RECOVERY	100.0%							

National Enrichment Facility

10M Joint Frequency Distribution

August, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.7	.1	.0	.0	.0	.0	.8	2.1
NNE	.5	.7	.0	.0	.0	.0	1.2	3.3
NE	.3	.5	.1	.0	.0	.0	.9	3.5
ENE	.7	.9	.1	.0	.0	.0	1.7	3.7
E	1.1	.7	.1	.0	.0	.0	1.9	3.2
ESE	1.6	5.9	.8	.0	.0	.0	8.3	3.9
SE	2.6	20.0	1.2	.0	.0	.0	23.8	4.2
SSE	8.2	14.8	1.7	.0	.0	.0	24.7	3.8
S	5.5	13.0	2.8	.0	.0	.0	21.4	4.2
SSW	3.1	4.3	.0	.0	.0	.0	7.4	3.4
SW	1.1	1.5	.5	.0	.0	.0	3.1	3.9
WSW	.8	.3	.0	.0	.0	.0	1.1	2.7
W	.7	.4	.0	.0	.0	.0	1.1	2.4
WNW	.9	.1	.0	.0	.0	.0	1.1	1.7
NW	.5	.0	.0	.0	.0	.0	.5	2.2
NNW	.1	.7	.0	.0	.0	.0	.8	3.7
CALM							.1	
TOTAL	28.4	64.0	7.5	.0	.0	.0	100.0	3.8
TOTAL NUMBER OF OBSERVATIONS	744							
POSSIBLE NUMBER OF OBSERVATIONS	744							
DATA RECOVERY	100.0%							

National Enrichment Facility

10M Joint Frequency Distribution

September, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	1.7	1.5	.1	.0	.0	.0	3.4	3.0
NNE	1.4	5.2	2.5	.0	.0	.0	9.1	4.9
NE	2.1	5.5	2.2	.1	.0	.0	9.9	4.6
ENE	2.2	9.5	2.8	.0	.0	.0	14.6	4.6
E	3.2	6.7	1.0	.0	.0	.0	10.9	3.9
ESE	2.4	4.6	.1	.0	.0	.0	7.1	3.5
SE	2.4	6.2	.0	.0	.0	.0	8.5	3.5
SSE	4.6	3.4	.1	.0	.0	.0	8.1	3.0
S	2.5	2.2	.7	.0	.0	.0	5.5	3.8
SSW	4.5	1.7	.1	.0	.0	.0	6.3	2.5
SW	1.7	2.2	.1	.0	.0	.0	4.1	3.1
WSW	1.5	1.0	.0	.0	.0	.0	2.5	2.6
W	2.0	1.7	.0	.0	.0	.0	3.6	2.9
WNW	1.4	1.0	.0	.0	.0	.0	2.4	2.8
NW	.8	.7	.0	.0	.0	.0	1.5	3.0
NNW	1.5	.7	.0	.0	.0	.0	2.2	2.7
CALM							.1	
TOTAL	36.0	53.8	9.9	.1	.0	.0	100.0	3.7
TOTAL NUMBER OF OBSERVATIONS	714							
POSSIBLE NUMBER OF OBSERVATIONS	720							
DATA RECOVERY	99.2%							

National Enrichment Facility

10M Unit-Vector Wind Direction and Scalar Speed

July - September 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.9	.5	.1	.0	.0	.0	1.5	2.9
NNE	.8	1.9	.8	.0	.0	.0	3.5	4.6
NE	1.0	2.0	.8	.0	.0	.0	3.7	4.4
ENE	1.0	3.6	1.0	.0	.0	.0	5.6	4.4
E	1.6	2.9	.4	.0	.0	.0	4.9	3.8
ESE	1.7	5.5	.6	.0	.0	.0	7.9	3.9
SE	2.5	14.7	2.0	.0	.0	.0	19.1	4.4
SSE	6.9	13.1	3.0	.0	.0	.0	23.1	4.1
S	4.1	9.8	2.0	.0	.0	.0	15.9	4.2
SSW	3.0	2.9	.0	.0	.0	.0	6.0	3.1
SW	1.0	1.3	.2	.0	.0	.0	2.5	3.4
WSW	.9	.5	.0	.0	.0	.0	1.4	2.5
W	.9	.7	.0	.0	.0	.0	1.6	2.7
WNW	.8	.4	.0	.0	.0	.0	1.2	2.4
NW	.6	.2	.0	.0	.0	.0	.8	2.7
NNW	.7	.5	.0	.0	.0	.0	1.2	3.3
CALM							.1	
TOTAL	28.4	60.5	10.9	.0	.0	.0	100.0	4.0
TOTAL NUMBER OF OBSERVATIONS	2202							
POSSIBLE NUMBER OF OBSERVATIONS	2208							
DATA RECOVERY	99.7%							

National Enrichment Facility

40M Joint Frequency Distribution

July, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.3	.1	.1	.0	.0	.0	.5	3.9
NNE	.0	.0	.0	.0	.0	.0	.0	.0
NE	.3	.1	.0	.0	.0	.0	.4	3.2
ENE	.0	.4	.0	.0	.0	.0	.4	4.6
E	.3	1.1	.3	.0	.0	.0	1.6	4.9
ESE	.3	3.2	3.6	.0	.0	.0	7.1	5.8
SE	.4	9.3	13.4	.1	.0	.0	23.3	6.2
SSE	.4	13.6	19.4	.1	.0	.0	33.5	6.2
S	.4	15.6	9.5	.1	.0	.0	25.7	5.6
SSW	.4	4.2	.5	.0	.0	.0	5.1	4.6
SW	.7	.4	.0	.0	.0	.0	1.1	3.1
WSW	.1	.1	.0	.0	.0	.0	.3	3.3
W	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.1	.0	.0	.0	.0	.0	.1	2.8
NW	.1	.3	.0	.0	.0	.0	.4	3.1
NNW	.1	.1	.1	.1	.0	.0	.5	6.7
CALM							.0	
TOTAL	3.9	48.5	47.0	.5	.0	.0	100.0	5.8
TOTAL NUMBER OF OBSERVATIONS	744							
POSSIBLE NUMBER OF OBSERVATIONS	744							
DATA RECOVERY	100.0%							

National Enrichment Facility

40M Joint Frequency Distribution

August, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.0	.3	.0	.0	.0	.0	.3	3.5
NNE	.5	.7	.0	.0	.0	.0	1.2	4.1
NE	.0	.4	.3	.0	.0	.0	.7	6.3
ENE	.3	.8	.1	.0	.0	.0	1.2	4.3
E	.9	1.2	.1	.0	.0	.0	2.3	3.8
ESE	.3	3.9	1.7	.1	.0	.0	6.0	5.2
SE	.4	12.9	8.6	.0	.0	.0	21.9	5.5
SSE	1.2	12.1	9.1	.0	.0	.0	22.4	5.6
S	1.2	14.9	10.9	.4	.0	.0	27.4	5.8
SSW	.7	7.3	.7	.0	.0	.0	8.6	4.5
SW	1.1	1.6	.8	.0	.0	.0	3.5	4.7
WSW	.7	.7	.0	.0	.0	.0	1.3	3.2
W	.5	.7	.0	.0	.0	.0	1.2	3.2
WNW	.4	.1	.0	.0	.0	.0	.5	2.6
NW	.3	.3	.0	.0	.0	.0	.5	3.2
NNW	.4	.3	.1	.0	.0	.0	.8	4.1
CALM							.0	
TOTAL	8.9	58.1	32.5	.5	.0	.0	100.0	5.3
TOTAL NUMBER OF OBSERVATIONS	744							
POSSIBLE NUMBER OF OBSERVATIONS	744							
DATA RECOVERY	100.0%							

National Enrichment Facility

40M Joint Frequency Distribution

September, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.6	1.5	.4	.0	.0	.0	2.5	4.3
NNE	.6	2.5	4.3	.7	.0	.0	8.1	6.6
NE	.8	2.5	4.8	1.1	.0	.0	9.2	6.8
ENE	.7	4.1	5.9	.6	.0	.0	11.2	6.3
E	1.8	6.4	4.2	.3	.0	.0	12.7	5.3
ESE	1.7	2.1	2.1	.1	.0	.0	6.0	4.9
SE	1.0	5.2	4.5	.0	.0	.0	10.6	5.4
SSE	1.4	4.5	1.3	.0	.0	.0	7.1	4.6
S	1.0	6.6	1.5	.1	.0	.0	9.2	4.8
SSW	1.4	4.9	.4	.0	.0	.0	6.7	4.1
SW	1.1	3.6	.1	.0	.0	.0	4.9	4.0
WSW	.7	2.1	.1	.0	.0	.0	2.9	4.0
W	.7	2.2	.0	.0	.0	.0	2.9	4.0
WNW	.7	1.3	.1	.0	.0	.0	2.1	3.8
NW	.8	1.0	.6	.0	.0	.0	2.4	4.5
NNW	.7	.3	.1	.0	.0	.0	1.1	3.0
CALM							.0	
TOTAL	15.7	50.8	30.5	2.9	.0	.0	100.0	5.2
TOTAL NUMBER OF OBSERVATIONS	714							
POSSIBLE NUMBER OF OBSERVATIONS	720							
DATA RECOVERY	99.2%							



National Enrichment Facility

40M Unit-Vector Wind Direction and Scalar Speed

July - September 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.3	.6	.2	.0	.0	.0	1.1	4.1
NNE	.4	1.0	1.4	.2	.0	.0	3.0	6.3
NE	.4	1.0	1.6	.4	.0	.0	3.4	6.6
ENE	.3	1.7	2.0	.2	.0	.0	4.2	6.1
E	1.0	2.9	1.5	.1	.0	.0	5.4	5.0
ESE	.7	3.1	2.5	.1	.0	.0	6.4	5.3
SE	.6	9.2	8.9	.0	.0	.0	18.7	5.8
SSE	1.0	10.1	10.0	.0	.0	.0	21.2	5.8
S	.9	12.4	7.4	.2	.0	.0	20.9	5.6
SSW	.8	5.4	.5	.0	.0	.0	6.8	4.4
SW	1.0	1.9	.3	.0	.0	.0	3.1	4.1
WSW	.5	1.0	.0	.0	.0	.0	1.5	3.7
W	.4	1.0	.0	.0	.0	.0	1.4	3.7
WNW	.4	.5	.0	.0	.0	.0	.9	3.5
NW	.4	.5	.2	.0	.0	.0	1.1	4.1
NNW	.4	.2	.1	.0	.0	.0	.8	4.2
CALM							.0	
TOTAL	9.4	52.5	36.8	1.3	.0	.0	100.0	5.5
TOTAL NUMBER OF OBSERVATIONS	2202							
POSSIBLE NUMBER OF OBSERVATIONS	2208							
DATA RECOVERY	99.7%							

**Appendix B.3**  
**Wind Gust**

National Enrichment Facility

10M WIND GUST in mps for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	10.7	9.9	10.6	7.4	5.5	4.6	11.4	10.4	10.8	10.7	10.9	12.4	11.3	11.4	12.3	12.2	11.2	11.3	11.8	10.7	10.7	10.3	10.3	8.6	10.3	12.4	4.6
02	7.0	8.1	6.0	6.9	7.0	8.3	11.3	11.5	11.2	11.7	12.3	13.1	13.4	13.2	13.8	14.0	11.7	9.9	9.7	6.8	5.4	7.2	6.0	5.9	9.6	14.0	5.4
03	5.9	4.7	4.6	5.3	4.4	5.1	7.1	7.6	9.0	10.1	8.8	8.6	9.8	9.0	8.4	9.8	13.3	14.0	11.3	7.3	5.6	5.1	5.2	5.2	7.7	14.0	4.4
04	4.1	4.6	5.6	6.4	2.8	3.9	6.1	9.8	6.2	8.5	10.6	10.2	10.4	10.9	10.4	11.5	8.3	7.8	7.5	8.5	6.8	5.0	5.6	8.1	7.5	11.5	2.8
05	3.5	4.1	3.6	3.1	3.0	3.6	5.4	6.9	7.4	8.2	9.6	10.3	9.9	11.5	11.7	10.8	11.4	8.5	8.3	5.4	5.4	5.5	4.8	4.6	6.9	11.7	3.0
06	2.7	4.1	4.3	3.9	3.7	3.6	6.1	5.9	7.2	8.8	10.2	11.8	12.7	10.6	10.9	11.3	10.2	10.5	7.0	6.2	6.8	5.4	5.9	7.1	7.4	12.7	2.7
07	4.7	3.7	3.9	2.8	2.2	2.7	7.2	7.6	7.1	7.5	8.6	11.6	10.5	9.9	9.3	9.5	9.5	8.4	8.8	5.7	5.5	5.3	5.6	4.6	6.8	11.6	2.2
08	4.1	3.5	4.0	3.6	3.8	4.2	3.5	5.2	5.3	7.3	9.1	9.7	10.5	12.0	10.6	11.8	10.9	9.5	8.7	7.3	5.1	4.5	4.6	5.3	6.8	12.0	3.5
09	5.6	7.6	3.3	3.5	2.4	1.8	4.1	8.0	7.1	8.9	10.1	10.7	11.6	12.6	13.3	13.6	11.3	11.6	11.3	7.8	5.8	5.6	5.8	6.1	7.9	13.6	1.8
10	4.7	4.2	3.1	4.5	3.8	4.8	10.1	10.3	9.4	11.9	12.1	11.6	12.8	12.7	11.8	12.3	11.4	10.9	10.5	10.8	6.9	7.5	5.4	4.2	8.7	12.8	3.1
11	4.6	5.1	7.2	7.0	7.3	7.4	10.1	11.3	11.2	9.4	9.4	9.1	10.1	10.0	9.8	10.3	10.1	8.6	10.7	15.6	14.1	9.4	9.2	9.5	9.4	15.6	4.6
12	8.5	8.1	7.7	8.8	7.6	7.8	11.4	11.0	9.7	9.0	9.2	10.1	10.1	8.9	9.3	14.8	15.8	11.7	8.9	6.4	6.3	6.6	6.1	6.5	9.2	15.8	6.1
13	5.7	5.6	4.9	5.4	4.3	3.3	7.1	9.1	9.5	8.6	6.1	7.2	7.8	11.6	9.8	11.3	11.5	7.8	18.5	10.1	5.2	3.1	3.8	4.7	7.6	18.5	3.1
14	4.1	3.8	4.8	4.2	4.7	4.1	5.9	5.9	4.4	6.3	6.1	6.9	9.4	8.8	8.2	7.1	8.7	8.3	8.8	14.2	6.6	8.1	6.4	5.6	6.7	14.2	3.8
15	5.6	5.7	4.6	3.1	4.1	3.5	9.0	10.9	11.0	10.8	10.6	9.9	9.6	10.3	9.5	10.1	10.1	9.3	8.4	6.2	5.3	6.8	5.7	5.0	7.7	11.0	3.1
16	4.0	4.2	3.3	2.9	4.0	4.3	8.0	7.4	7.4	10.2	18.7	12.0	12.9	11.5	12.3	11.7	11.5	12.7	9.9	9.1	8.6	8.5	8.5	7.3	8.8	18.7	2.9
17	5.1	5.7	4.2	3.8	4.6	3.5	7.1	7.7	7.3	9.5	11.0	11.9	10.7	12.0	10.7	12.5	10.3	12.1	10.0	6.0	5.6	5.3	5.0	4.3	7.7	12.5	3.5
18	3.2	2.6	.7	1.3	2.3	2.9	6.0	7.4	7.7	9.6	10.1	10.8	9.9	10.1	13.0	8.5	9.3	7.2	6.5	4.6	4.8	4.0	5.7	5.6	6.4	13.0	.7
19	6.2	4.0	2.8	2.2	2.9	3.4	3.6	5.6	5.0	6.3	8.4	7.6	7.6	6.8	8.4	9.5	8.9	6.8	9.7	6.6	9.7	7.4	3.5	3.3	6.1	9.7	2.2
20	4.1	6.1	5.0	3.1	4.6	3.9	6.2	6.7	6.7	10.8	9.1	8.8	10.0	10.6	10.9	11.6	11.1	10.4	8.6	7.1	6.1	5.0	5.2	5.4	7.4	11.6	3.1
21	5.7	7.4	6.7	3.8	4.6	5.3	10.1	10.1	11.4	9.4	10.8	10.7	10.5	9.5	9.7	10.1	10.3	9.6	10.7	8.5	7.5	7.3	9.1	10.6	8.7	11.4	3.8
22	9.6	7.8	6.1	5.1	5.5	4.9	7.9	8.5	6.9	8.2	10.0	11.3	10.3	10.1	9.1	10.4	9.0	8.4	10.0	11.4	7.7	6.6	3.8	4.1	8.0	11.4	3.8
23	5.4	6.1	6.2	6.4	4.2	3.6	7.7	8.4	7.8	9.4	6.6	7.2	8.8	9.4	8.8	10.0	10.1	9.9	8.2	8.6	8.4	10.9	8.8	8.2	7.9	10.9	3.6
24	5.6	4.6	4.8	5.3	5.5	7.0	10.6	11.6	9.6	8.4	8.6	9.4	11.5	11.3	10.2	8.9	10.1	9.7	8.4	6.1	6.3	5.6	6.7	6.8	8.0	11.6	4.6
25	5.9	4.9	3.8	4.9	5.5	6.0	6.1	6.4	6.1	5.5	6.1	8.5	7.4	8.1	12.3	9.1	9.7	8.5	6.4	6.4	6.7	6.8	6.1	5.9	6.8	12.3	3.8
26	4.1	3.0	3.0	3.1	3.7	4.2	6.1	5.8	6.5	9.3	10.7	11.8	10.9	10.4	10.4	10.8	9.2	10.8	7.8	5.7	5.1	7.1	9.7	9.0	7.4	11.8	3.0
27	8.9	7.5	7.0	4.7	4.9	2.9	8.5	9.6	9.1	7.0	9.2	9.2	8.8	9.6	9.9	10.1	10.5	8.8	9.3	8.2	7.3	6.7	7.7	6.6	8.0	10.5	2.9
28	6.5	5.4	4.9	3.7	4.8	5.3	9.9	9.8	10.3	10.7	12.2	13.9	12.5	13.0	12.0	12.9	12.2	9.2	7.3	7.9	8.5	9.2	9.0	5.7	9.0	13.9	3.7
29	5.6	4.9	4.8	3.0	2.7	4.1	4.6	7.1	8.0	5.5	9.8	10.9	10.7	10.7	9.9	16.5	9.4	10.8	9.8	6.1	5.7	6.0	4.6	4.9	7.3	16.5	2.7
30	5.8	3.4	2.9	2.3	2.7	3.6	6.2	6.9	6.2	6.9	7.8	10.4	10.3	11.8	13.7	12.2	8.5	10.1	9.8	11.3	12.6	10.0	7.8	8.0	8.0	13.7	2.3
31	5.2	5.2	5.1	3.8	4.4	5.9	9.8	11.1	10.4	9.4	11.9	10.1	10.1	10.7	11.7	11.7	11.0	11.5	9.4	4.9	4.6	5.0	6.1	5.4	8.1	11.9	3.8
MEAN	5.6	5.3	4.8	4.4	4.3	4.5	7.6	8.4	8.2	8.8	9.8	10.2	10.4	10.6	10.7	11.2	10.5	9.8	9.4	8.0	7.0	6.7	6.4	6.2	7.9		
MAX	10.7	9.9	10.6	8.8	7.6	8.3	11.4	11.6	11.4	11.9	18.7	13.9	13.4	13.2	13.8	16.5	15.8	14.0	18.5	15.6	14.1	10.9	10.3	10.6		18.7	
MIN	2.7	2.6	.7	1.3	2.2	1.8	3.5	5.2	4.4	5.5	6.1	6.9	7.4	6.8	8.2	7.1	8.3	6.8	6.4	4.6	4.6	3.1	3.5	3.3			.7

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 7.9 mps

MAXIMUM 10M WIND GUST WAS 18.7 mps ON 7/16 AT 1100

MAXIMUM DAILY MEAN WAS 10.3 mps ON 7/ 1

MINIMUM 10M WIND GUST WAS .7 mps ON 7/18 AT 300

MINIMUM DAILY MEAN WAS 6.1 mps ON 7/19

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M WIND GUST in mps for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	7.3	6.5	2.7	3.7	3.1	3.9	9.7	9.4	8.9	9.9	10.5	9.6	9.3	12.6	10.2	10.1	9.1	7.8	6.6	5.4	6.1	6.7	5.4	5.0	7.5	12.6	2.7
02	5.6	4.8	4.1	4.0	3.9	3.7	7.8	9.6	10.0	10.9	8.9	9.3	9.7	9.9	10.7	9.7	11.2	7.4	7.6	6.2	6.9	6.9	4.6	6.1	7.5	11.2	3.7
03	6.4	4.1	4.7	7.0	2.2	5.2	4.9	3.5	3.3	6.3	9.8	11.4	11.8	11.2	9.6	10.6	10.6	9.7	7.8	5.3	4.9	4.7	4.3	3.0	6.8	11.8	2.2
04	2.3	2.8	4.2	2.3	2.1	5.3	4.5	4.0	4.3	5.8	8.8	9.1	8.0	10.1	10.3	9.9	9.5	8.0	6.7	6.0	5.1	6.0	7.1	4.2	6.1	10.3	2.1
05	3.3	3.2	4.3	3.6	3.5	5.5	8.6	9.2	9.6	8.9	10.4	10.7	10.3	10.0	10.9	10.1	8.8	12.2	8.8	6.2	6.1	4.9	5.0	3.0	7.4	12.2	3.0
06	3.3	3.4	3.9	3.3	3.2	4.2	7.8	8.7	8.5	8.3	8.5	9.1	8.5	7.3	7.0	6.6	7.7	5.5	4.4	5.7	7.0	6.9	6.6	10.1	6.5	10.1	3.2
07	10.4	8.5	6.2	5.7	6.5	6.2	9.9	10.1	9.1	11.1	9.5	9.0	7.2	7.8	8.0	8.2	9.0	11.0	9.3	5.5	2.9	2.2	4.7	6.1	7.7	11.1	2.2
08	5.3	3.8	4.3	3.9	4.4	7.8	8.7	10.4	8.3	8.1	8.6	9.8	7.4	6.9	10.0	6.1	6.5	6.9	4.9	6.8	6.4	5.3	9.4	7.9	7.0	10.4	3.8
09	7.8	7.3	5.5	2.6	2.3	3.9	8.6	7.9	6.9	7.2	10.6	10.6	11.4	14.0	12.3	11.2	9.9	10.0	8.0	6.8	6.4	5.9	5.8	6.1	7.9	14.0	2.3
10	7.8	6.3	4.0	3.9	3.5	3.7	8.5	9.1	7.6	6.3	5.7	8.1	6.8	10.1	7.6	7.5	6.1	5.8	8.0	11.6	8.7	6.1	4.9	4.3	6.7	11.6	3.5
11	6.0	6.6	4.2	3.8	2.2	3.8	5.4	6.7	7.4	8.6	6.1	8.7	11.7	10.8	14.2	9.8	9.5	8.4	10.3	11.3	10.4	8.9	8.9	8.5	8.0	14.2	2.2
12	8.5	8.8	8.9	7.4	4.0	3.5	4.7	6.1	6.9	7.5	7.1	6.1	7.5	9.1	8.8	8.6	7.7	9.8	9.1	5.4	2.9	3.1	2.1	7.5	6.7	9.8	2.1
13	5.5	6.0	6.7	4.9	3.9	5.3	6.5	7.2	8.7	8.4	9.3	10.5	13.4	12.6	13.0	12.6	11.5	10.7	9.3	7.1	6.1	5.0	4.6	4.3	8.0	13.4	3.9
14	5.0	4.7	3.6	4.5	5.0	5.6	6.1	6.2	7.2	6.1	6.8	8.2	10.1	11.6	11.7	10.2	9.3	8.8	6.6	4.8	3.5	2.8	2.9	3.2	6.4	11.7	2.8
15	3.0	3.5	5.1	4.6	3.3	3.2	5.3	8.3	8.1	8.2	8.3	8.6	14.7	8.8	10.0	9.7	10.0	7.6	7.9	5.3	5.5	5.9	6.2	5.9	7.0	14.7	3.0
16	6.1	4.6	4.1	3.8	2.8	4.3	8.9	8.8	9.1	8.7	8.2	11.6	8.8	8.8	9.3	11.7	8.8	7.8	9.8	7.5	7.4	7.0	3.8	5.4	7.4	11.7	2.8
17	2.7	3.8	7.6	6.0	5.3	5.3	6.3	6.1	4.7	6.0	7.2	9.4	10.3	10.7	8.9	7.5	9.2	6.5	6.5	4.6	5.2	5.2	7.6	6.2	6.6	10.7	2.7
18	4.2	3.8	2.2	4.2	3.4	2.7	3.6	6.9	9.3	7.4	7.4	9.2	8.1	11.9	8.7	9.5	8.7	8.1	6.4	5.5	5.4	5.4	5.5	4.1	6.3	11.9	2.2
19	3.6	3.7	3.5	3.2	2.8	1.9	5.7	8.0	6.5	8.3	10.4	10.1	10.9	12.5	10.0	11.1	10.5	8.9	8.5	7.0	6.1	6.1	5.7	5.3	7.1	12.5	1.9
20	4.8	5.9	5.7	8.5	6.9	5.9	8.2	10.1	9.2	8.6	9.3	8.5	8.9	7.5	7.3	10.9	10.1	11.0	11.0	9.1	7.6	7.1	7.1	6.6	8.2	11.0	4.8
21	5.7	5.7	6.8	6.6	6.9	5.3	3.8	6.4	7.0	9.3	8.8	9.3	9.2	9.3	9.9	11.1	10.6	10.3	8.6	6.6	6.9	8.1	8.1	6.8	7.8	11.1	3.8
22	5.1	4.7	4.5	2.8	3.1	2.2	4.2	7.5	7.6	7.7	10.8	9.4	9.8	9.6	10.2	9.5	9.9	8.6	6.8	5.0	4.8	5.7	5.6	5.8	6.7	10.8	2.2
23	3.5	2.9	3.8	3.4	3.8	3.0	8.7	9.6	8.9	9.2	10.7	11.8	10.4	8.9	9.4	9.4	8.2	7.2	5.3	5.9	6.8	6.5	5.9	5.8	7.0	11.8	2.9
24	5.2	3.6	4.1	3.1	2.1	1.9	4.5	6.7	6.3	8.2	9.0	9.8	9.9	14.9	10.1	8.1	10.7	8.7	6.5	5.8	6.2	6.1	6.6	5.4	6.8	14.9	1.9
25	5.6	3.6	1.6	1.7	1.7	3.9	5.0	3.6	4.2	4.0	6.7	11.6	8.6	7.8	12.1	7.7	7.9	11.5	15.8	10.8	5.7	3.4	5.3	2.3	6.3	15.8	1.6
26	3.0	3.9	4.3	4.2	4.2	5.0	4.2	3.3	3.9	5.7	5.4	7.7	8.9	8.9	9.4	9.9	7.7	9.0	7.8	5.0	5.3	4.2	3.8	5.1	5.8	9.9	3.0
27	5.0	2.9	2.1	1.5	1.3	1.8	2.4	3.8	4.2	7.2	10.7	9.3	10.3	8.2	9.9	7.7	10.1	8.2	6.4	4.7	5.3	7.4	6.5	5.3	5.9	10.7	1.3
28	6.6	3.8	2.6	1.6	1.5	1.4	3.1	5.8	8.8	9.4	9.3	9.9	10.7	12.1	10.5	10.1	7.1	6.6	4.8	4.6	4.6	4.2	3.1	1.6	6.0	12.1	1.4
29	1.5	2.4	2.6	2.7	5.3	4.6	6.5	4.6	6.5	5.8	8.5	7.3	7.1	8.2	8.6	7.0	7.6	7.3	3.9	6.1	5.3	9.8	12.4	12.4	6.4	12.4	1.5
30	10.1	8.5	7.7	8.0	6.9	5.5	7.4	9.7	11.3	10.2	10.8	9.7	8.9	8.1	9.1	8.6	8.3	9.8	6.3	11.7	9.9	12.3	13.3	13.7	9.4	13.7	5.5
31	12.0	9.7	9.3	9.5	10.1	10.0	6.2	9.8	9.3	9.2	10.5	10.1	9.2	13.1	12.7	12.5	12.3	11.9	10.0	6.3	6.9	7.4	6.1	5.5	9.6	13.1	5.5
MEAN	5.6	5.0	4.7	4.4	3.9	4.4	6.3	7.3	7.5	8.0	8.8	9.5	9.6	10.1	10.0	9.5	9.2	8.7	7.7	6.6	6.1	6.0	6.1	5.9	7.1		
MAX	12.0	9.7	9.3	9.5	10.1	10.0	9.9	10.4	11.3	11.1	10.8	11.8	14.7	14.9	14.2	12.6	12.3	12.2	15.8	11.7	10.4	12.3	13.3	13.7		15.8	
MIN	1.5	2.4	1.6	1.5	1.3	1.4	2.4	3.3	3.3	4.0	5.4	6.1	6.8	6.9	7.0	6.1	6.1	5.5	3.9	4.6	2.9	2.2	2.1	1.6			1.3

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 7.1 mps

MAXIMUM 10M WIND GUST WAS 15.8 mps ON 8/25 AT 1900

MAXIMUM DAILY MEAN WAS 9.6 mps ON 8/31

MINIMUM 10M WIND GUST WAS 1.3 mps ON 8/27 AT 500

MINIMUM DAILY MEAN WAS 5.8 mps ON 8/26

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M WIND GUST in mps for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	4.9	4.0	4.3	5.1	5.1	7.8	10.8	13.1	12.5	12.2	12.0	11.8	12.2	10.6	10.7	9.7	9.1	10.2	7.0	5.3	6.4	7.0	5.8	5.3	8.5	13.1	4.0
02	5.6	4.9	4.2	1.6	2.0	1.5	4.6	9.8	9.3	8.9	9.6	10.6	10.6	10.9	9.6	9.2	7.7	7.0	6.3	5.4	5.6	6.2	6.2	4.1	6.7	10.9	1.5
03	1.2	2.3	2.6	3.6	2.9	3.0	2.7	3.4	4.2	7.5	7.7	8.2	6.6	10.0	9.4	9.1	9.0	7.2	5.7	4.7	12.5	11.2	8.4	13.0	6.5	13.0	1.2
04	17.1	14.5	17.8	14.0	12.4	13.8	14.7	13.9	11.7	14.5	12.7	12.4	12.8	11.8	10.3	9.2	9.3	9.5	8.7	8.7	7.2	4.6	4.9	6.9	11.4	17.8	4.6
05	5.6	6.2	8.8	6.0	6.4	5.8	7.6	8.6	8.8	8.5	7.6	7.7	10.1	8.6	8.7	7.9	10.7	6.3	4.3	3.7	4.4	5.0	5.3	4.5	7.0	10.7	3.7
06	4.6	4.8	5.4	4.6	3.0	1.7	4.3	6.7	7.7	7.8	12.2	7.7	7.3	6.7	9.7	6.8	6.9	6.3	5.1	5.0	5.5	6.2	6.1	6.0	6.2	12.2	1.7
07	5.6	7.5	7.5	5.0	6.9	7.4	4.2	4.1	6.3	8.9	10.2	9.6	10.2	9.9	9.2	9.7	9.3	9.5	9.2	9.4	10.8	13.5	12.6	11.0	8.6	13.5	4.1
08	9.2	9.4	8.2	7.1	7.3	6.4	6.5	8.9	8.4	7.9	7.1	5.6	7.7	7.2	7.3	6.7	6.9	7.9	5.3	4.3	5.5	6.7	6.4	5.7	7.1	9.4	4.3
09	5.1	5.7	5.1	4.6	3.1	4.2	5.9	4.9	6.1	6.4	8.1	8.8	8.3	8.7	9.5	9.3	8.2	8.0	6.8	7.7	6.8	7.5	7.3	4.7	6.7	9.5	3.1
10	4.7	4.1	4.2	4.1	5.2	5.1	5.4	5.3	6.7	8.1	7.7	9.4	9.2	13.7	9.1	10.6	10.0	10.2	8.2	7.1	5.3	5.7	4.6	5.2	7.0	13.7	4.1
11	5.6	6.3	7.3	6.9	7.2	7.2	6.9	7.4	8.1	7.4	6.2	6.6	6.2	6.2	7.4	6.7	6.5	5.8	3.8	4.6	4.9	5.8	5.8	7.1	6.4	8.1	3.8
12	6.1	5.0	1.9	2.2	1.5	1.5	2.0	2.7	4.7	8.7	9.5	9.9	9.7	9.2	9.3	9.7	7.3	3.4	2.0	3.3	5.2	3.7	4.1	6.6	5.4	9.9	1.5
13	4.9	3.4	3.7	4.9	4.1	2.4	3.0	6.5	6.1	5.9	5.8	6.6	7.4	9.3	9.2	8.4	7.7	2.0	7.0	7.1	3.1	6.2	5.9	6.2	5.7	9.3	2.0
14	5.6	4.6	3.2	4.9	3.7	7.5	8.7	10.7	10.2	12.3	12.7	13.7	12.1	11.1	10.1	10.2	10.5	8.6	8.3	11.2	15.8	9.5	12.4	13.7	9.6	15.8	3.2
15	11.9	9.3	11.8	9.2	14.3	14.3	9.8	11.9	10.8	10.9	10.5	8.6	8.5	8.1	8.3	8.3	8.7	6.6	6.4	7.7	9.1	7.7	8.2	8.4	9.6	14.3	6.4
16	10.1	5.3	9.7	10.0	5.3	3.6	3.0	4.5	5.2	7.0	6.2	5.5	6.0	6.2	6.9	6.2	5.4	5.4	4.3	4.0	6.5	5.1	6.2	3.3	5.9	10.1	3.0
17	4.3	3.8	4.4	3.9	3.3	3.1	2.8	4.4	6.3	7.7	9.5	8.7	9.8	8.5	8.8	11.7	9.5	7.4	3.5	2.7	3.5	2.9	4.1	2.6	5.7	11.7	2.6
18	2.4	4.0	3.0	2.6	2.2	2.0	3.9	7.6	8.0	9.1	7.8	9.0	7.2	7.4	9.3	7.3	7.4	5.1	4.2	4.4	4.9	5.5	5.5	5.6	5.6	9.3	2.0
19	6.8	7.4	7.8	6.9	6.6	5.8	6.6	6.5	7.4	7.4	6.8	7.2	6.3	7.3	7.7	7.6	7.5	6.5	6.0	6.4	6.6	6.7	7.6	7.3	6.9	7.8	5.8
20	5.7	3.3	3.2	3.0	4.1	4.7	4.6	7.4	8.2	7.6	7.8	7.1	8.0	8.5	8.1	8.1	6.9	6.4	4.2	2.3	4.7	6.2	5.4	4.6	5.8	8.5	2.3
21	4.8	4.1	5.3	8.9	10.1	9.7	11.4	10.1	9.1	8.1	9.1	7.1	7.4	7.7	6.6	6.3	3.8	1.8	2.7	3.7	3.3	5.9	6.2	5.0	6.6	11.4	1.8
22	5.7	6.4	5.1	6.9	11.3	14.0	16.4	14.2	13.8	11.0	10.7	10.2	10.0	8.0	6.8	5.9	6.4	4.5	3.5	3.5	3.5	4.1	4.1	4.4	7.9	16.4	3.5
23	3.1	3.7	3.1	1.8	1.6	1.5	2.9	2.3	4.4	3.8	4.2	4.4	4.3	5.1	4.4	4.6	7.7	4.5	4.6	4.3	3.9	3.3	2.9	2.1	3.7	7.7	1.5
24	2.3	2.8	2.9	2.9	2.3	2.6	2.1	5.9	7.1	7.2	9.1	7.9	7.9	8.4	10.1	14.9	7.3	5.6	2.8	2.3	2.2	2.5	4.3	2.9	5.3	14.9	2.1
25	3.9	5.0	4.0	4.5	6.1	6.0	6.1	7.2	7.9	7.3	5.7	4.8	8.7	9.7	9.7	10.1	7.2	4.6	2.3	2.1	8.6	7.9	4.4	4.6	6.2	10.1	2.1
26	4.9	3.5	3.3	2.3	2.0	2.2	2.6	2.2	3.3	4.4	7.4	8.7	9.1	9.7	6.4	5.9	5.3	2.2	2.6	1.8	3.5	4.6	2.0	3.9	4.3	9.7	1.8
27	3.6	5.5	5.6	5.6	5.8	2.7	4.2	5.8	4.5	4.9	5.3	5.1	4.0	5.9	10.5	9.1	8.7	5.3	5.8	8.9	9.7	10.0	8.7	6.5	6.3	10.5	2.7
28	6.3	6.1	6.1	7.4	7.5	7.2	6.5	4.2	3.2	5.5	6.2	6.5	7.0	6.0	6.0	11.6	11.2	8.9	11.2	4.6	2.5	6.4	4.4	3.1	6.5	11.6	2.5
29	2.8	4.9	5.2	3.2	3.1	2.5	4.6	3.7	3.8							11.5	3.9	6.7	10.9	14.4	17.3	9.1	8.8	8.9	7.0	17.3	2.5
30	9.0	7.9	12.7	12.5	11.5	10.5	11.3	13.5	12.9	11.2	10.2	8.8	7.3	7.4	7.0	7.2	5.7	5.6	3.9	6.3	6.6	6.7	6.4	5.4	8.6	13.5	3.9
MEAN	5.8	5.5	5.9	5.5	5.6	5.6	6.2	7.2	7.6	8.2	8.5	8.2	8.3	8.5	8.5	8.7	7.7	6.3	5.6	5.6	6.5	6.4	6.2	6.0	6.8		
MAX	17.1	14.5	17.8	14.0	14.3	14.3	16.4	14.2	13.8	14.5	12.7	13.7	12.8	13.7	10.7	14.9	11.2	10.2	11.2	14.4	17.3	13.5	12.6	13.7		17.8	
MIN	1.2	2.3	1.9	1.6	1.5	1.5	2.0	2.2	3.2	3.8	4.2	4.4	4.0	5.1	4.4	4.6	3.8	1.8	2.0	1.8	2.2	2.5	2.0	2.1			1.2

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 714      DATA RECOVERY RATE = 99.2 %

MONTHLY MEAN = 6.8 mps

MAXIMUM 10M WIND GUST WAS 17.8 mps ON 9/ 4 AT 300

MAXIMUM DAILY MEAN WAS 11.4 mps ON 9/ 4

MINIMUM 10M WIND GUST WAS 1.2 mps ON 9/ 3 AT 100

MINIMUM DAILY MEAN WAS 3.7 mps ON 9/23

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M WIND GUST in mps for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	12.5	11.8	11.9	10.1	7.8	5.9	11.7	11.2	11.1	11.3	12.0	11.6	13.2	11.8	12.8	12.7	12.7	12.9	12.9	11.9	13.4	11.9	12.8	9.8	11.6	13.4	5.9
02	9.0	10.0	8.0	8.5	8.5	9.3	11.7	12.1	13.1	12.7	12.9	14.3	13.3	13.6	12.9	13.2	11.6	10.9	10.9	9.3	7.4	8.7	7.8	8.6	10.8	14.3	7.4
03	8.8	7.6	8.0	8.2	6.7	6.7	7.2	7.9	9.4	9.8	9.6	9.5	9.9	9.5	10.0	10.4	16.5	15.8	12.8	8.5	7.8	7.9	9.0	8.6	9.4	16.5	6.7
04	7.6	4.9	7.5	7.1	4.2	6.2	7.6	10.2	6.0	9.0	10.7	11.3	11.4	10.7	13.2	11.7	9.7	8.3	8.0	9.6	9.2	6.1	7.7	9.1	8.6	13.2	4.2
05	5.0	6.7	6.7	5.5	4.9	5.7	6.2	7.6	7.3	8.9	10.5	11.7	11.1	12.9	13.2	11.3	11.6	10.2	9.2	7.4	7.8	7.6	7.0	7.0	8.5	13.2	4.9
06	6.1	5.9	7.4	7.5	6.7	6.3	6.8	6.4	7.3	8.8	11.2	13.4	16.2	11.7	11.3	12.5	12.5	11.0	8.6	8.9	9.6	8.5	8.4	9.5	9.3	16.2	5.9
07	8.3	6.4	6.9	5.8	5.1	5.0	7.7	8.3	8.4	7.6	9.0	8.5	9.9	10.6	10.0	10.9	10.2	9.0	9.4	8.3	7.7	7.7	8.2	8.2	8.2	10.9	5.0
08	7.1	6.8	7.2	6.6	7.5	7.4	4.4	5.6	6.6	7.3	10.0	11.5	11.6	12.2	11.6	11.8	12.4	11.1	9.8	8.9	8.6	7.7	8.3	8.2	8.8	12.4	4.4
09	8.1	10.1	5.8	5.0	4.0	3.4	4.6	7.5	7.7	11.7	10.3	11.9	12.1	14.0	13.2	15.3	12.9	13.4	13.1	9.5	7.5	8.7	8.5	8.8	9.5	15.3	3.4
10	7.0	6.1	5.8	6.6	6.3	6.8	10.9	10.6	9.8	12.5	13.4	15.9	13.8	13.4	12.9	14.3	12.7	12.1	11.6	11.8	9.8	9.7	7.8	7.0	10.4	15.9	5.8
11	7.2	7.4	9.4	9.2	9.1	8.5	12.1	12.5	11.4	9.9	9.7	9.3	10.5	9.5	11.5	10.3	11.1	9.4	11.6	15.8	16.4	11.8	10.5	10.7	10.6	16.4	7.2
12	10.8	10.2	10.0	10.8	10.0	9.0	12.1	11.1	10.3	9.8	10.3	11.5	10.8	10.0	10.6	16.5	17.5	12.8	9.0	6.8	6.9	7.8	7.7	7.7	10.4	17.5	6.8
13	6.9	7.4	6.7	7.9	6.6	5.0	7.8	9.8	9.8	10.9	7.5	7.5	8.6	10.3	10.3	11.4	12.6	8.1	22.4	12.0	7.4	4.6	4.9	6.1	8.9	22.4	4.6
14	5.9	3.8	6.7	6.3	6.6	4.2	5.9	6.6	5.0	6.0	8.0	7.1	9.6	9.5	7.9	7.9	9.6	9.0	9.4	17.0	8.9	9.8	8.3	8.1	7.8	17.0	3.8
15	8.7	8.4	8.2	6.3	6.7	6.4	9.6	11.7	11.2	11.0	11.1	10.5	10.9	10.8	11.1	11.0	11.0	10.4	10.3	8.3	7.5	8.6	7.5	7.8	9.4	11.7	6.3
16	7.6	7.7	6.0	6.3	6.3	7.0	8.8	7.6	8.8	10.7	15.8	12.5	13.5	13.1	13.1	13.5	11.8	14.4	11.8	10.7	9.8	9.5	10.0	8.5	10.2	15.8	6.0
17	6.9	6.9	6.3	5.8	6.9	5.5	7.9	7.7	7.9	11.0	12.4	12.6	11.4	12.6	12.6	12.6	11.2	12.1	10.2	7.2	7.4	7.8	7.6	6.8	9.1	12.6	5.5
18	5.7	4.7	2.7	2.5	2.8	4.2	6.1	7.5	8.2	10.2	10.5	10.8	10.9	11.0	13.7	9.4	10.0	8.4	8.4	6.9	6.9	6.7	8.3	8.0	7.7	13.7	2.5
19	7.5	6.6	5.9	4.0	5.4	5.5	3.2	5.8	5.2	5.6	8.6	7.4	8.6	8.1	8.3	10.8	9.4	7.7	10.7	7.8	11.3	8.4	6.0	6.1	7.2	11.3	3.2
20	6.9	8.0	7.7	5.6	6.7	6.1	7.0	7.2	7.7	9.8	10.1	9.5	9.9	11.6	11.2	13.6	11.7	10.3	10.0	9.5	7.7	8.2	8.1	7.8	8.8	13.6	5.6
21	8.4	9.3	9.2	6.5	7.5	7.1	11.7	11.2	10.9	10.6	11.6	10.9	11.2	9.6	10.3	10.2	11.9	10.8	11.7	9.9	9.9	10.1	10.9	12.5	10.2	12.5	6.5
22	11.6	9.7	8.5	6.5	7.7	5.8	9.1	9.3	7.6	9.3	11.1	10.8	11.2	10.2	11.1	11.6	9.9	9.6	10.8	13.0	10.1	8.8	5.2	5.9	9.4	13.0	5.2
23	8.0	8.7	8.7	9.2	6.4	5.5	7.9	8.8	8.5	9.2	8.4	7.9	10.0	10.1	10.7	11.2	11.4	10.7	9.1	9.6	9.6	12.3	10.9	9.6	9.3	12.3	5.5
24	7.7	7.0	5.9	7.0	7.4	9.0	11.2	12.9	11.0	9.7	9.3	9.4	10.8	11.0	11.9	10.1	12.1	10.8	9.7	8.5	9.0	8.1	9.1	8.7	9.5	12.9	5.9
25	8.7	7.3	6.8	7.2	7.5	8.4	6.9	6.2	6.7	6.4	6.4	8.6	8.2	9.9	9.9	8.4	9.0	9.4	7.7	8.6	9.5	9.4	8.9	8.6	8.1	9.9	6.2
26	7.1	6.1	6.1	5.8	6.6	7.1	7.0	5.9	7.2	9.5	11.8	13.5	11.8	11.2	11.3	12.2	10.4	9.3	8.6	7.8	8.6	9.5	11.9	11.2	9.1	13.5	5.8
27	11.3	10.0	9.3	7.6	7.7	5.3	8.9	10.2	10.9	7.3	9.4	9.3	9.5	9.3	10.0	11.0	11.3	9.1	10.5	10.0	9.0	9.0	9.9	9.5	9.4	11.3	5.3
28	8.9	9.1	7.8	6.4	6.5	7.4	10.8	10.4	10.5	10.9	12.8	14.4	15.9	12.5	12.9	13.5	12.2	10.3	8.1	9.3	9.7	10.2	11.3	7.9	10.4	15.9	6.4
29	7.8	7.1	7.6	5.2	5.2	5.3	4.1	8.1	7.8	6.1	10.3	12.3	12.5	11.7	10.8	19.1	10.5	11.8	11.1	8.7	8.2	7.8	6.6	7.1	8.9	19.1	4.1
30	6.1	6.6	6.4	4.6	3.0	3.8	6.7	7.0	6.9	7.9	7.9	11.3	12.1	11.9	14.7	13.5	9.5	11.3	11.0	13.0	14.2	11.7	9.5	9.1	9.2	14.7	3.0
31	7.1	8.0	7.2	6.1	5.6	7.3	11.1	11.7	10.6	11.1	13.6	10.9	11.1	11.5	14.4	12.7	11.6	12.3	10.1	7.2	7.3	8.8	9.3	8.9	9.8	14.4	5.6
MEAN	7.9	7.6	7.4	6.7	6.4	6.3	8.2	8.9	8.7	9.4	10.5	10.9	11.3	11.2	11.6	12.1	11.6	10.7	10.6	9.7	9.2	8.8	8.6	8.4	9.3		
MAX	12.5	11.8	11.9	10.8	10.0	9.3	12.1	12.9	13.1	12.7	15.8	15.9	16.2	14.0	14.7	19.1	17.5	15.8	22.4	17.0	16.4	12.3	12.8	12.5		22.4	
MIN	5.0	3.8	2.7	2.5	2.8	3.4	3.2	5.6	5.0	5.6	6.4	7.1	8.2	8.1	7.9	7.9	9.0	7.7	7.7	6.8	6.9	4.6	4.9	5.9			2.5

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 9.3 mps

MAXIMUM 40M WIND GUST WAS 22.4 mps ON 7/13 AT 1900

MAXIMUM DAILY MEAN WAS 11.6 mps ON 7/ 1

MINIMUM 40M WIND GUST WAS 2.5 mps ON 7/18 AT 400

MINIMUM DAILY MEAN WAS 7.2 mps ON 7/19

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M WIND GUST in mps for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	9.6	8.3	5.5	6.2	5.8	6.2	10.8	10.3	9.5	9.7	10.7	10.5	9.9	13.3	10.6	10.0	9.1	7.8	7.3	7.6	8.8	9.1	8.0	8.1	8.9	13.3	5.5
02	8.4	7.1	7.3	6.9	7.4	6.8	9.0	10.0	9.3	10.9	9.9	11.2	11.7	9.6	9.2	11.2	10.6	8.4	8.4	9.3	8.2	8.8	7.6	9.0	9.0	11.7	6.8
03	9.1	6.6	7.3	9.4	4.7	4.6	5.8	4.1	3.5	7.4	10.1	13.1	16.1	13.2	10.4	11.9	11.9	10.3	8.8	6.9	7.7	7.0	7.1	5.6	8.4	16.1	3.5
04	5.1	5.7	6.5	4.9	4.2	6.7	4.5	4.2	4.4	7.1	9.3	9.3	8.5	9.9	11.1	10.1	10.5	7.9	7.6	7.4	7.0	8.5	9.8	6.7	7.4	11.1	4.2
05	6.5	5.9	7.4	6.9	7.0	8.2	9.2	9.9	10.0	11.4	10.1	10.4	10.4	10.3	11.3	10.7	8.7	13.6	9.2	8.5	8.6	8.1	7.9	5.8	9.0	13.6	5.8
06	6.0	6.3	7.2	6.8	7.1	7.7	9.2	10.8	8.6	8.4	9.7	10.1	10.5	8.3	7.9	5.9	7.2	6.7	6.2	8.6	9.5	8.9	9.7	11.7	8.3	11.7	5.9
07	11.9	10.5	8.1	7.7	8.2	7.8	10.4	11.0	9.8	11.0	10.6	10.0	8.1	8.6	10.8	9.1	9.9	12.2	10.1	9.8	3.6	3.7	7.6	8.8	9.1	12.2	3.6
08	8.3	6.4	7.7	7.8	7.7	10.2	9.2	10.9	9.2	8.1	10.6	10.0	7.1	8.7	9.6	6.6	7.4	7.8	6.3	9.0	8.7	8.4	11.3	9.9	8.6	11.3	6.3
09	10.1	9.2	8.5	5.2	4.9	5.5	8.9	8.7	8.3	7.3	10.6	12.5	12.2	14.2	14.3	12.1	10.6	10.7	8.8	8.6	8.1	8.3	9.1	9.4	9.4	14.3	4.9
10	10.2	9.3	7.3	7.4	6.3	6.7	8.8	9.1	7.9	7.3	6.1	7.4	6.8	10.0	8.0	8.8	7.5	6.5	10.0	14.0	11.3	8.0	7.1	7.2	8.3	14.0	6.1
11	7.7	8.0	6.7	6.2	4.8	5.4	5.7	8.3	8.3	8.5	7.1	9.3	11.4	11.9	15.8	10.6	11.2	9.8	12.3	14.0	11.9	10.4	10.6	9.5	9.4	15.8	4.8
12	9.2	9.8	10.0	8.6	5.5	5.2	5.3	6.7	7.7	7.7	7.8	6.5	7.8	10.6	9.2	9.4	8.8	10.9	9.8	6.0	3.2	3.8	3.2	8.8	7.6	10.9	3.2
13	7.7	7.4	8.0	6.3	5.5	6.7	7.2	7.4	9.4	8.2	9.3	11.7	14.3	13.2	14.3	13.7	12.2	12.5	10.4	8.1	7.6	6.7	6.5	6.1	9.2	14.3	5.5
14	7.0	6.2	5.2	6.1	6.9	6.9	7.4	6.5	7.7	6.1	7.1	8.6	11.0	12.6	13.4	11.7	9.9	8.8	6.8	6.1	6.1	4.8	4.8	5.6	7.6	13.4	4.8
15	5.1	5.4	7.2	6.5	5.4	4.6	6.8	8.9	8.4	9.5	9.0	9.1	14.4	9.7	10.9	10.8	10.2	8.9	8.8	7.5	8.4	8.8	8.7	8.3	8.4	14.4	4.6
16	7.7	7.1	6.9	6.5	5.7	7.3	9.3	9.6	10.0	9.2	8.5	13.7	9.8	9.4	10.4	12.1	9.3	8.4	10.6	9.8	10.0	9.3	5.0	5.9	8.8	13.7	5.0
17	4.1	3.9	9.5	8.0	7.7	6.9	7.0	6.7	4.9	5.6	7.3	10.1	11.0	11.2	9.6	8.6	9.9	7.3	7.0	7.0	7.0	6.7	9.4	8.0	7.7	11.2	3.9
18	7.5	6.6	4.5	4.6	4.1	3.3	3.8	7.4	9.5	7.6	7.4	9.1	8.4	12.4	8.6	9.7	9.3	8.6	7.7	7.2	7.4	7.7	9.2	6.9	7.4	12.4	3.3
19	6.8	7.0	6.3	5.7	6.0	4.5	7.0	9.0	7.3	8.6	11.7	10.8	12.0	13.2	10.9	10.5	10.9	9.7	9.0	8.4	8.4	8.9	8.1	9.3	8.8	13.2	4.5
20	8.1	8.8	7.9	9.9	9.6	7.8	10.1	10.9	9.9	10.5	10.4	9.0	9.6	8.6	8.1	12.8	11.1	11.8	13.0	11.2	9.5	9.2	8.7	8.7	9.8	13.0	7.8
21	8.3	8.3	9.6	9.3	8.9	7.2	5.0	7.2	6.6	9.4	10.4	10.2	10.1	10.0	11.9	11.1	10.4	11.7	9.3	8.1	9.7	10.9	10.6	8.1	9.3	11.9	5.0
22	8.4	7.9	7.8	6.8	7.0	4.7	6.1	8.3	8.3	8.5	12.3	10.2	10.1	10.6	10.4	9.8	9.4	9.5	7.7	6.5	6.5	8.7	9.1	8.9	8.5	12.3	4.7
23	5.6	5.5	6.4	6.0	7.5	6.9	10.1	10.4	9.7	9.8	11.8	12.3	11.7	10.5	9.7	8.9	8.2	8.0	6.3	8.0	8.8	9.1	8.2	8.3	8.7	12.3	5.5
24	8.6	6.9	6.6	6.0	5.0	5.2	5.3	7.0	7.5	10.1	10.1	11.2	9.9	15.3	11.2	9.1	10.3	9.1	7.7	7.6	8.8	8.8	8.6	7.6	8.5	15.3	5.0
25	7.5	5.7	4.6	4.4	4.2	4.6	6.1	3.9	3.9	4.5	7.3	11.0	10.1	8.8	13.0	8.8	8.6	14.6	17.6	12.1	6.4	4.8	6.1	3.1	7.6	17.6	3.1
26	2.8	3.0	3.4	4.5	4.4	6.3	5.8	4.1	4.0	4.6	6.4	8.4	7.9	8.6	9.3	10.3	8.0	10.5	8.4	6.9	7.2	6.4	6.1	7.8	6.5	10.5	2.8
27	8.6	6.9	4.1	3.6	3.1	2.9	2.5	3.9	4.5	6.8	10.7	9.9	8.9	8.9	10.1	8.1	9.7	9.3	7.5	7.1	7.6	9.7	9.7	9.3	7.2	10.7	2.5
28	9.6	6.3	4.9	3.1	3.0	2.9	4.6	6.3	10.1	11.5	9.9	10.7	10.6	13.0	10.9	10.9	8.1	7.6	7.0	8.6	8.8	8.6	7.2	4.7	7.9	13.0	2.9
29	4.3	4.2	4.3	3.5	6.4	5.5	7.5	4.6	6.2	6.3	9.2	7.9	7.2	8.6	8.4	8.0	8.6	8.1	6.2	8.6	8.1	12.2	14.0	14.6	7.6	14.6	3.5
30	11.6	10.1	9.7	10.1	8.7	8.4	8.4	9.9	12.1	11.0	12.3	12.3	8.8	8.2	10.1	9.2	9.5	10.6	7.8	12.7	11.2	14.9	15.6	16.4	10.8	16.4	7.8
31	14.8	11.9	10.7	11.4	11.9	11.6	7.9	10.7	10.0	10.4	11.8	10.4	10.1	13.1	12.3	13.7	12.9	13.5	11.7	8.7	9.1	9.3	8.9	8.4	11.0	14.8	7.9
MEAN	7.9	7.2	7.0	6.6	6.3	6.3	7.2	8.0	8.0	8.5	9.5	10.2	10.2	10.8	10.7	10.1	9.7	9.7	8.9	8.7	8.2	8.3	8.5	8.3	8.5		
MAX	14.8	11.9	10.7	11.4	11.9	11.6	10.8	11.0	12.1	11.5	12.3	13.7	16.1	15.3	15.8	13.7	12.9	14.6	17.6	14.0	11.9	14.9	15.6	16.4		17.6	
MIN	2.8	3.0	3.4	3.1	3.0	2.9	2.5	3.9	3.5	4.5	6.1	6.5	6.8	8.2	7.9	5.9	7.2	6.5	6.2	6.0	3.2	3.7	3.2	3.1			2.5

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 8.5 mps

MAXIMUM 40M WIND GUST WAS 17.6 mps ON 8/25 AT 1900

MAXIMUM DAILY MEAN WAS 11.0 mps ON 8/31

MINIMUM 40M WIND GUST WAS 2.5 mps ON 8/27 AT 700

MINIMUM DAILY MEAN WAS 6.5 mps ON 8/26

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M WIND GUST in mps for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	8.0	6.8	7.6	8.4	7.6	9.7	12.9	14.3	13.8	15.0	12.7	12.7	12.7	11.3	11.7	10.6	10.0	10.7	8.0	8.1	8.6	9.3	9.5	8.3	10.3	15.0	6.8
02	7.7	7.1	7.5	4.4	4.8	3.9	5.3	10.0	10.1	9.8	10.4	11.5	13.3	11.7	9.0	10.8	9.2	8.1	7.4	7.7	8.5	9.0	8.2	6.5	8.4	13.3	3.9
03	3.6	4.7	4.3	3.7	2.5	4.0	2.9	3.7	4.3	9.0	7.8	8.3	7.5	10.8	10.5	9.8	10.0	8.1	7.2	6.9	13.7	13.9	10.6	15.5	7.6	15.5	2.5
04	18.7	17.0	18.8	18.1	16.6	17.8	16.0	15.6	13.9	15.5	15.3	13.8	13.4	11.8	11.7	11.3	10.4	9.9	9.6	9.4	8.4	6.3	6.6	7.6	13.1	18.8	6.3
05	7.0	7.0	9.3	8.1	8.6	7.7	8.9	9.3	9.4	10.1	8.0	8.6	10.0	9.3	9.2	8.4	9.9	6.7	5.9	5.3	6.1	7.1	7.5	7.6	8.1	10.1	5.3
06	7.9	8.1	8.7	7.5	5.4	4.9	5.3	8.0	9.0	8.3	11.6	7.7	7.9	7.3	9.0	8.2	7.1	6.8	7.6	7.8	8.9	9.6	9.8	9.2	8.0	11.6	4.9
07	8.8	10.6	10.3	7.7	10.1	9.9	6.5	4.6	7.2	9.9	9.7	10.6	9.7	10.1	9.4	10.4	9.8	9.5	11.1	11.3	12.8	15.5	14.7	12.5	10.1	15.5	4.6
08	11.1	10.9	9.0	9.1	9.4	8.8	8.6	9.3	8.5	8.3	7.4	5.5	7.4	6.9	8.5	7.1	6.8	9.2	6.2	6.2	8.2	8.8	8.7	8.2	8.3	11.1	5.5
09	8.3	7.6	7.2	6.7	4.2	4.6	7.7	5.8	6.7	6.5	8.2	9.1	10.0	9.4	9.9	10.8	9.0	8.6	9.2	9.6	10.2	10.6	9.3	6.9	8.2	10.8	4.2
10	6.5	6.1	6.1	5.4	6.5	6.5	6.8	6.1	7.3	7.8	8.2	10.4	9.9	11.8	10.5	11.0	11.2	10.7	9.6	8.2	7.7	7.9	7.3	7.5	8.2	11.8	5.4
11	7.8	8.4	9.6	9.8	10.1	10.3	9.4	8.5	8.4	8.1	8.3	7.9	6.2	7.3	7.6	5.1	6.5	6.5	5.9	6.9	7.1	8.1	8.8	10.0	8.0	10.3	5.1
12	8.9	7.4	5.4	5.2	5.0	4.0	4.8	2.8	5.6	9.7	11.3	11.1	10.1	9.6	9.5	10.9	7.6	4.1	2.3	3.4	5.3	3.7	6.5	9.2	6.8	11.3	2.3
13	7.8	4.9	6.0	7.6	7.2	4.5	4.9	6.4	7.2	7.5	6.6	7.5	9.8	9.2	11.4	9.3	8.0	3.6	8.3	8.6	5.3	8.3	8.6	8.8	7.4	11.4	3.6
14	7.5	6.0	4.9	7.5	6.8	9.1	10.6	11.5	11.4	13.9	13.5	15.5	13.3	11.0	11.8	11.7	11.6	9.7	9.4	15.1	17.1	12.2	14.5	15.2	11.3	17.1	4.9
15	14.1	12.9	13.8	10.0	15.6	16.4	11.9	13.6	12.1	11.7	11.7	8.9	8.9	8.4	8.9	8.7	9.0	7.3	7.1	8.2	9.2	8.3	8.7	9.3	10.6	16.4	7.1
16	11.2	6.1	10.9	12.4	6.5	4.5	3.2	5.1	6.0	7.6	6.6	6.7	6.6	6.9	7.5	6.7	5.4	5.9	6.0	7.3	8.5	8.4	8.6	5.6	7.1	12.4	3.2
17	6.7	6.6	7.0	7.2	6.2	5.9	5.3	5.3	6.9	8.5	8.7	10.2	9.6	9.1	9.4	12.2	10.6	8.2	5.9	6.0	6.2	6.2	6.5	5.2	7.5	12.2	5.2
18	5.0	6.1	5.3	3.9	3.4	3.2	3.8	8.8	8.4	9.6	8.4	11.5	8.5	8.1	10.4	7.3	8.1	5.6	6.0	7.4	7.4	8.7	8.4	8.4	7.2	11.5	3.2
19	9.3	10.1	10.6	9.6	8.9	8.4	8.1	7.5	8.3	8.0	7.2	7.0	6.9	7.7	7.6	7.8	8.3	6.9	8.2	8.8	9.0	9.1	9.8	10.3	8.5	10.6	6.9
20	8.3	6.1	6.1	6.0	6.7	8.5	6.7	7.9	9.2	8.0	9.5	8.1	9.4	10.3	7.7	9.0	8.0	8.6	6.2	5.6	6.8	7.9	7.3	4.4	7.6	10.3	4.4
21	6.5	6.7	5.5	11.2	12.3	12.2	12.9	10.7	10.2	8.5	8.7	8.6	7.4	7.3	7.3	7.0	4.2	2.3	2.4	3.4	3.7	7.7	8.7	7.5	7.6	12.9	2.3
22	8.2	7.6	8.2	9.1	13.3	16.5	20.1	15.9	14.9	11.8	12.2	11.2	10.2	8.7	7.3	6.6	6.8	4.7	4.7	5.3	4.7	5.4	5.9	6.1	9.4	20.1	4.7
23	4.6	3.8	5.1	2.4	1.4	1.6	2.8	2.6	4.3	3.8	4.5	4.8	6.6	4.9	5.3	4.3	8.0	5.5	6.1	5.7	7.4	6.9	6.2	6.0	4.8	8.0	1.4
24	5.8	5.0	4.6	5.5	5.1	4.8	4.7	6.9	6.9	8.2	8.7	8.9	8.9	8.5	8.9	13.8	8.6	6.9	6.1	6.2	5.0	6.7	6.9	6.6	7.0	13.8	4.6
25	7.1	8.3	7.3	7.5	10.0	9.8	10.1	7.9	8.4	8.4	6.1	5.3	9.3	10.1	10.0	10.1	7.3	6.2	4.0	3.0	11.2	11.7	7.8	6.8	8.1	11.7	3.0
26	6.9	5.5	5.2	3.4	2.6	2.7	3.3	2.2	3.1	5.1	8.5	9.4	10.2	9.3	7.1	6.4	5.6	2.6	4.6	3.8	3.9	5.4	1.5	3.0	5.1	10.2	1.5
27	3.0	8.7	8.2	7.1	8.8	3.9	6.0	6.3	4.8	5.1	4.7	4.3	4.6	6.3	9.7	15.3	9.3	6.2	8.6	12.0	14.0	12.4	11.6	9.3	7.9	15.3	3.0
28	9.1	8.9	10.3	9.3	9.2	10.6	10.0	4.8	3.2	5.3	7.3	7.4	7.0	6.3	6.2	13.3	12.4	10.5	11.8	6.3	2.5	6.8	6.2	3.1	7.8	13.3	2.5
29	6.1	8.4	8.7	7.4	5.8	3.8	4.1	3.8	4.2						13.7	6.0	10.1	13.1	17.6	18.9	12.9	11.6	12.1	9.4	18.9	3.8	
30	12.0	11.2	16.3	13.5	13.5	13.7	13.5	15.9	13.9	12.0	11.1	9.5	8.1	9.0	8.3	7.2	6.3	6.4	6.8	8.6	9.3	9.1	8.6	8.2	10.5	16.3	6.3
MEAN	8.1	7.8	8.3	7.8	7.8	7.7	7.9	8.0	8.2	9.0	9.1	9.0	9.1	8.9	9.0	9.5	8.4	7.2	7.2	7.7	8.5	8.8	8.5	8.2	8.3		
MAX	18.7	17.0	18.8	18.1	16.6	17.8	20.1	15.9	14.9	15.5	15.3	15.5	13.4	11.8	11.8	15.3	12.4	10.7	13.1	17.6	18.9	15.5	14.7	15.5		20.1	
MIN	3.0	3.8	4.3	2.4	1.4	1.6	2.8	2.2	3.1	3.8	4.5	4.3	4.6	4.9	5.3	4.3	4.2	2.3	2.3	3.0	2.5	3.7	1.5	3.0			1.4

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 714      DATA RECOVERY RATE = 99.2 %

MONTHLY MEAN = 8.3 mps

MAXIMUM 40M WIND GUST WAS 20.1 mps ON 9/22 AT 700

MAXIMUM DAILY MEAN WAS 13.1 mps ON 9/ 4

MINIMUM 40M WIND GUST WAS 1.4 mps ON 9/23 AT 500

MINIMUM DAILY MEAN WAS 4.8 mps ON 9/23

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS



**Appendix C**  
**Temperature Information for 10- and 40-Meter Levels for**  
**July through September 2011**  
**C.1 Hourly Temperature**  
**C.2 Vertical Temperature Difference**  
**C.3 Atmospheric Stability**

**Appendix C.1**  
**Hourly Temperature**















**Appendix C.2**  
**Vertical Temperature Difference**

National Enrichment Facility

Delta T between 40M and 10M in Deg C for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	-0.2	-0.1	-0.1	-0.0	0.2	0.0	-0.4	-0.6	-0.7	-0.8	-0.8	-1.0	-0.9	-0.9	-0.8	-0.7	-0.6	-0.6	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.4	0.2	-1.0
02	-0.0	-0.1	-0.0	-0.1	-0.1	-0.2	-0.4	-0.6	-0.7	-0.8	-0.8	-0.9	-0.9	-0.9	-0.8	-0.8	-0.6	-0.5	-0.3	-0.1	0.4	0.2	0.1	0.2	-0.4	0.4	-0.9
03	0.3	0.6	0.8	0.5	0.6	0.3	-0.4	-0.5	-0.7	-0.7	-0.7	-0.9	-0.7	-0.7	-0.8	-0.7	-0.6	-0.5	-0.3	-0.0	0.5	0.8	1.7	0.8	-0.0	1.7	-0.9
04	0.7	0.7	0.8	0.6	0.9	1.2	-0.3	-0.5	-0.6	-0.7	-0.8	-0.8	-0.9	-0.9	-0.8	-0.7	-0.6	-0.5	-0.3	-0.0	0.1	0.0	0.2	0.1	-0.1	1.2	-0.9
05	0.4	0.6	1.0	1.0	1.0	1.0	-0.2	-0.5	-0.6	-0.7	-0.8	-0.9	-1.1	-0.7	-0.8	-0.7	-0.7	-0.5	-0.3	0.3	1.0	1.2	0.9	0.9	0.0	1.2	-1.1
06	1.0	1.1	1.7	1.7	1.8	1.3	-0.3	-0.5	-0.6	-0.7	-0.8	-0.9	-0.8	-0.7	-0.7	-0.7	-0.5	-0.4	-0.2	0.4	0.9	1.2	1.3	0.8	0.2	1.8	-0.9
07	1.1	1.3	1.6	1.3	0.9	0.9	-0.2	-0.5	-0.7	-0.7	-0.7	-0.6	-0.9	-0.8	-0.7	-0.7	-0.7	-0.5	-0.2	0.2	0.9	0.8	1.4	1.7	0.2	1.7	-0.9
08	1.0	1.5	1.5	1.2	1.9	2.0	-0.2	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.8	-0.9	-0.7	-0.6	-0.5	-0.3	0.3	0.8	1.1	1.3	0.4	0.2	2.0	-0.9
09	0.4	0.3	0.4	0.4	0.6	0.8	-0.2	-0.5	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.5	-0.3	0.1	0.6	1.2	1.3	0.6	-0.1	1.3	-0.8
10	0.4	0.5	1.1	0.8	0.6	0.1	-0.4	-0.6	-0.7	-0.8	-0.9	-0.9	-1.0	-0.9	-0.8	-0.8	-0.7	-0.5	-0.3	-0.1	0.2	0.2	0.6	1.0	-0.2	1.1	-1.0
11	0.7	0.7	0.4	-0.1	-0.1	-0.1	-0.4	-0.6	-0.7	-0.8	-0.9	-0.8	-0.8	-0.8	-0.8	-0.7	-0.6	-0.4	-0.3	-0.2	-0.3	-0.2	-0.2	-0.2	-0.3	0.7	-0.9
12	-0.1	-0.1	-0.1	-0.1	-0.0	-0.1	-0.4	-0.6	-0.7	-0.7	-0.8	-0.9	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	-0.4	-0.3	-0.1	0.1	-0.2	-0.3	-0.4	0.1	-0.9
13	-0.2	0.1	0.2	0.5	0.4	0.3	-0.3	-0.4	-0.6	-0.7	-0.7	-0.8	-0.7	-0.8	-0.8	-0.8	-0.6	-0.4	-0.4	-0.3	0.8	0.1	0.1	0.6	-0.2	0.8	-0.8
14	1.5	2.0	1.1	1.1	2.3	2.9	0.1	-0.6	-0.5	-0.7	-0.8	-0.8	-0.8	-0.8	-0.7	-0.6	-0.6	-0.5	-0.3	-0.0	0.3	0.3	0.3	0.3	0.2	2.9	-0.8
15	0.5	0.6	0.7	0.8	1.0	0.8	-0.3	-0.6	-0.7	-0.8	-0.8	-0.9	-0.8	-0.9	-0.8	-0.7	-0.6	-0.5	-0.3	0.0	0.5	0.7	0.7	1.3	-0.1	1.3	-0.9
16	1.2	1.4	1.1	1.3	0.9	0.8	-0.4	-0.6	-0.7	-0.8	-0.9	-0.9	-1.0	-0.9	-0.7	-0.6	-0.6	-0.3	-0.3	-0.2	-0.2	-0.1	-0.2	-0.1	-0.1	1.4	-1.0
17	0.3	0.4	0.3	0.8	0.5	0.5	-0.4	-0.5	-0.7	-0.7	-0.8	-0.8	-0.7	-0.8	-0.9	-0.8	-0.6	-0.5	-0.3	-0.1	0.2	0.7	0.8	0.6	-0.2	0.8	-0.9
18	1.0	0.5	0.7	0.5	0.8	1.1	-0.2	-0.5	-0.6	-0.8	-0.9	-0.8	-0.8	-0.8	-0.7	-0.6	-0.6	-0.5	-0.3	0.5	1.1	1.3	1.4	1.4	0.1	1.4	-0.9
19	1.3	0.6	0.8	0.7	1.2	1.0	-0.3	-0.5	-0.6	-0.5	-0.7	-0.7	-0.6	-0.6	-0.8	-0.6	-0.6	-0.4	-0.3	0.2	0.5	0.1	0.5	0.6	0.0	1.3	-0.8
20	0.6	0.5	0.3	0.4	0.6	0.4	-0.3	-0.4	-0.6	-0.7	-0.8	-0.8	-0.8	-0.8	-0.9	-0.7	-0.6	-0.5	-0.3	0.1	0.4	0.7	0.7	0.5	-0.1	0.7	-0.9
21	0.5	0.1	0.0	0.4	0.7	0.3	-0.4	-0.6	-0.6	-0.7	-0.9	-1.0	-0.8	-0.8	-0.7	-0.7	-0.6	-0.5	-0.3	-0.1	0.0	0.1	-0.1	-0.1	-0.3	0.7	-1.0
22	-0.1	-0.1	0.1	0.2	-0.1	-0.1	-0.4	-0.6	-0.7	-0.7	-0.8	-1.0	-0.9	-0.9	-0.9	-0.9	-0.6	-0.5	-0.3	0.2	1.7	0.5	0.6	1.0	-0.2	1.7	-1.0
23	1.1	0.6	0.3	0.1	0.3	0.3	-0.3	-0.4	-0.5	-0.6	-0.7	-0.7	-0.6	-0.6	-0.5	-0.5	-0.5	-0.5	-0.2	-0.1	0.0	-0.1	-0.1	-0.0	-0.2	1.1	-0.7
24	0.4	0.6	0.7	0.6	0.5	0.1	-0.4	-0.6	-0.6	-0.6	-0.8	-0.7	-0.7	-0.7	-0.7	-0.7	-0.6	-0.5	-0.2	0.1	0.2	0.4	0.2	0.2	-0.2	0.7	-0.8
25	0.2	0.4	0.7	0.8	0.8	0.3	-0.3	-0.5	-0.6	-0.7	-0.8	-0.8	-0.6	-0.7	-0.7	-0.7	-0.6	-0.4	-0.2	0.6	0.7	0.5	1.1	0.7	-0.0	1.1	-0.8
26	0.9	1.0	1.0	0.9	0.9	0.8	-0.3	-0.5	-0.6	-0.7	-0.8	-0.9	-0.8	-0.8	-0.7	-0.7	-0.6	-0.5	-0.1	0.7	1.4	1.1	0.0	0.0	0.0	1.4	-0.9
27	-0.0	0.1	0.2	0.5	0.5	0.4	-0.3	-0.5	-0.7	-0.7	-0.8	-0.8	-0.8	-0.9	-0.8	-0.7	-0.6	-0.5	-0.3	-0.1	0.0	0.2	0.2	0.2	-0.3	0.5	-0.9
28	0.2	0.5	0.7	0.8	0.5	0.5	-0.3	-0.5	-0.7	-0.8	-0.9	-0.9	-0.9	-0.8	-0.8	-0.6	-0.6	-0.5	-0.3	0.1	-0.1	-0.1	-0.1	0.3	-0.2	0.8	-0.9
29	0.2	0.6	1.1	0.7	0.7	1.5	-0.4	-0.5	-0.6	-0.7	-0.9	-0.8	-0.8	-0.7	-0.6	-0.2	0.3	-0.0	0.0	0.6	0.9	0.7	1.2	1.5	0.2	1.5	-0.9
30	0.7	1.3	2.2	1.1	1.5	2.7	0.7	-0.5	-0.6	-0.6	-0.7	-0.8	-0.9	-0.8	-0.6	-0.5	-0.3	-0.4	-0.3	-0.1	-0.2	-0.2	-0.2	-0.1	0.1	2.7	-0.9
31	-0.0	0.1	0.1	0.2	0.1	-0.0	-0.4	-0.6	-0.7	-0.8	-0.9	-0.9	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.2	0.5	1.0	1.3	1.5	0.9	-0.1	1.5	-0.9
MEAN	0.5	0.6	0.7	0.6	0.7	0.7	-0.3	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.3	0.1	0.5	0.5	0.5	0.5	-0.1		
MAX	1.5	2.0	2.2	1.7	2.3	2.9	0.7	-0.4	-0.5	-0.5	-0.7	-0.6	-0.6	-0.6	-0.5	-0.2	0.3	-0.0	0.0	0.7	1.7	1.3	1.7	1.7	2.9		
MIN	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2	-0.4	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-0.9	-0.9	-0.9	-0.7	-0.6	-0.4	-0.3	-0.3	-0.2	-0.2	-0.3		-1.1	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = -0.1 DEG

MONTHLY MAXIMUM = 2.9 Deg C ON 7/14 AT 600

MONTHLY MINIMUM = -1.1 Deg C ON 7/ 5 AT 1300

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

Delta T between 40M and 10M in Deg C for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN	
01	0.3	0.6	0.7	0.5	0.8	0.7	-0.2	-0.6	-0.6	-0.7	-0.8	-0.8	-0.9	-0.8	-0.8	-0.7	-0.6	-0.4	-0.1	0.5	0.4	0.4	1.2	1.4	-0.0	1.4	-0.9	
02	0.7	0.7	1.0	1.1	1.4	1.3	-0.1	-0.5	-0.6	-0.7	-0.8	-0.9	-0.9	-0.8	-0.8	-0.7	-0.6	-0.5	-0.2	0.6	0.5	1.0	1.2	0.9	0.1	1.4	-0.9	
03	0.3	0.7	1.1	0.6	0.4	1.3	0.5	-0.4	-0.4	-0.6	-0.9	-0.9	-0.9	-0.9	-0.8	-0.8	-0.6	-0.5	-0.2	0.3	0.6	1.0	1.1	0.8	0.0	1.3	-0.9	
04	0.6	1.0	0.9	0.4	0.9	0.8	-0.4	-0.5	-0.5	-0.6	-0.8	-0.8	-0.7	-0.7	-0.7	-0.8	-0.6	-0.4	-0.3	0.4	1.4	0.7	0.7	0.8	0.0	1.4	-0.8	
05	0.8	0.9	1.3	1.5	1.3	1.3	-0.3	-0.5	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.2	0.2	0.3	1.1	0.7	0.7	0.1	1.5	-0.8	
06	0.8	1.2	0.9	1.1	0.7	0.7	-0.3	-0.6	-0.7	-0.7	-0.8	-0.9	-0.8	-0.7	-0.9	-0.7	-0.5	-0.4	0.3	0.9	0.6	0.6	1.1	0.0	0.0	1.2	-0.9	
07	-0.1	-0.0	0.2	0.1	0.0	-0.0	-0.3	-0.6	-0.6	-0.8	-0.8	-0.9	-0.9	-0.8	-0.7	-0.7	-0.6	-0.4	-0.2	-0.2	0.1	0.7	1.0	0.7	-0.2	1.0	-0.9	
08	0.6	1.0	1.5	1.6	0.6	0.1	-0.3	-0.6	-0.7	-0.7	-0.8	-0.8	-0.7	-0.8	-0.8	-0.6	-0.6	-0.4	0.0	0.5	0.2	1.0	0.3	0.1	-0.0	1.6	-0.8	
09	0.1	0.2	0.4	0.6	0.7	0.6	-0.2	-0.5	-0.6	-0.6	-0.8	-0.9	-0.9	-0.9	-0.8	-0.6	-0.6	-0.4	-0.2	0.1	0.1	0.3	1.0	0.7	-0.1	1.0	-0.9	
10	0.2	0.2	0.9	1.3	1.1	1.0	-0.2	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	-0.8	-0.7	-0.6	-0.4	-0.1	-0.1	-0.1	0.3	0.5	0.5	-0.1	1.3	-0.8	
11	0.2	-0.1	0.1	0.4	0.2	0.5	-0.1	-0.6	-0.8	-0.8	-0.7	-0.9	-0.8	-0.6	-0.6	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	-0.2	-0.3	-0.3	-0.3	-0.3	0.5	-0.9
12	-0.3	-0.3	-0.3	-0.2	0.1	0.5	-0.1	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.5	-0.6	-0.4	-0.3	0.0	0.5	0.7	0.5	0.6	-0.2	0.7	-0.7	
13	0.8	0.6	-0.0	0.5	1.6	0.9	-0.3	-0.5	-0.7	-0.7	-0.8	-0.8	-1.0	-0.9	-0.9	-0.7	-0.6	-0.5	-0.3	-0.3	-0.2	-0.1	0.0	0.2	-0.2	1.6	-1.0	
14	0.0	0.1	0.2	0.4	1.0	1.1	-0.3	-0.5	-0.6	-0.6	-0.7	-0.9	-0.9	-0.7	-0.7	-0.6	-0.7	-0.5	-0.3	0.1	0.1	0.4	0.8	0.5	-0.1	1.1	-0.9	
15	0.3	0.2	0.1	0.4	0.8	0.8	0.2	-0.3	-0.6	-0.7	-0.7	-0.7	-0.8	-0.8	-0.7	-0.6	-0.5	-0.3	0.1	0.6	0.8	0.6	0.3	0.1	-0.1	0.8	-0.8	
16	0.1	0.3	0.5	0.6	0.5	0.5	-0.3	-0.5	-0.5	-0.6	-0.7	-0.8	-0.8	-0.7	-0.7	-0.7	-0.6	-0.4	-0.2	-0.0	-0.0	-0.0	0.0	-0.0	-0.2	0.6	-0.8	
17	0.3	0.5	1.0	1.8	1.3	0.7	-0.4	-0.5	-0.5	-0.6	-0.6	-0.8	-0.8	-0.8	-0.6	-0.6	-0.5	-0.4	-0.2	0.2	0.6	0.3	0.1	0.5	0.0	1.8	-0.8	
18	1.2	0.9	0.5	1.1	0.6	0.4	0.0	-0.5	-0.6	-0.6	-0.7	-0.8	-0.8	-0.8	-0.6	-0.7	-0.6	-0.4	-0.0	0.8	1.0	1.0	1.1	0.6	0.1	1.2	-0.8	
19	1.0	1.3	1.5	1.4	1.0	1.0	-0.0	-0.5	-0.6	-0.7	-0.8	-0.8	-0.9	-0.9	-0.9	-0.7	-0.6	-0.4	-0.2	-0.0	0.1	0.2	0.5	0.8	0.0	1.5	-0.9	
20	0.8	0.4	0.5	0.8	0.3	0.1	-0.2	-0.5	-0.7	-0.7	-0.9	-0.8	-0.8	-0.7	-0.7	-0.6	-0.4	-0.2	-0.1	0.1	0.3	0.2	0.2	-0.2	0.8	-0.9	-0.9	
21	0.4	0.4	0.3	0.1	0.2	0.4	-0.2	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-0.8	-0.7	-0.8	-0.6	-0.5	-0.3	0.0	0.5	-0.0	-0.1	0.3	-0.2	0.5	-1.0	
22	1.3	1.4	1.4	1.0	1.2	0.4	-0.2	-0.5	-0.6	-0.7	-0.8	-0.8	-0.9	-0.8	-0.7	-0.7	-0.6	-0.4	-0.1	0.3	0.7	0.6	1.1	0.5	0.1	1.4	-0.9	
23	0.6	0.7	1.2	1.4	1.6	1.0	-0.0	-0.5	-0.6	-0.7	-0.8	-0.9	-0.9	-0.8	-0.7	-0.6	-0.5	-0.4	-0.1	0.8	0.5	0.6	0.7	0.6	0.1	1.6	-0.9	
24	1.5	1.5	1.1	1.3	1.0	0.8	0.0	-0.4	-0.6	-0.6	-0.8	-0.8	-0.8	-0.8	-0.7	-0.6	-0.4	-0.2	0.5	0.7	0.5	0.1	0.2	0.1	1.5	-0.8	-0.8	
25	0.6	1.0	1.0	0.9	0.9	0.9	1.1	-0.4	-0.5	-0.5	-0.6	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.4	-0.4	-0.3	0.0	0.2	0.2	0.3	-0.0	1.1	-0.8	
26	0.8	2.7	3.1	3.2	3.2	2.8	0.5	-0.4	-0.5	-0.6	-0.8	-0.8	-0.7	-0.7	-0.6	-0.6	-0.5	-0.4	-0.1	0.9	1.2	1.3	1.1	1.1	0.6	3.2	-0.8	
27	1.4	1.2	0.7	0.7	0.7	0.7	0.8	-0.3	-0.5	-0.6	-0.7	-0.8	-0.8	-0.7	-0.8	-0.7	-0.5	-0.4	0.0	1.2	1.2	1.3	1.8	1.6	0.3	1.8	-0.8	
28	0.4	0.6	0.6	0.8	1.1	1.2	0.7	-0.4	-0.6	-0.6	-0.8	-0.8	-0.8	-0.8	-0.7	-0.5	-0.3	0.7	2.2	2.7	2.2	2.2	1.1	0.4	2.7	-0.8	-0.8	
29	1.0	0.8	0.7	0.5	1.7	3.2	1.7	-0.2	-0.5	-0.5	-0.5	-0.5	-0.6	-0.8	-0.6	-0.6	-0.5	-0.3	1.0	0.6	0.8	0.5	-0.0	-0.0	0.3	3.2	-0.8	
30	0.1	0.2	0.2	0.1	0.1	0.3	-0.1	-0.5	-0.7	-0.7	-0.9	-0.8	-0.8	-0.6	-0.5	-0.5	-0.3	-0.2	0.1	-0.1	-0.1	-0.1	-0.2	-0.1	-0.3	0.3	-0.9	
31	-0.1	-0.1	0.1	-0.1	-0.1	-0.1	-0.2	-0.5	-0.5	-0.8	-0.8	-0.8	-0.8	-0.7	-0.7	-0.7	-0.6	-0.4	-0.1	0.3	0.4	0.3	0.5	0.7	-0.2	0.7	-0.8	
MEAN	0.5	0.7	0.8	0.8	0.9	0.8	0.0	-0.5	-0.6	-0.7	-0.8	-0.8	-0.8	-0.8	-0.7	-0.6	-0.5	-0.4	-0.1	0.3	0.5	0.6	0.6	0.5	-0.0			
MAX	1.5	2.7	3.1	3.2	3.2	3.2	1.7	-0.2	-0.4	-0.5	-0.5	-0.5	-0.6	-0.6	-0.5	-0.3	-0.2	-0.2	1.0	2.2	2.7	2.2	2.2	1.6	3.2			
MIN	-0.3	-0.3	-0.3	-0.2	-0.1	-0.1	-0.4	-0.6	-0.8	-0.8	-0.9	-0.9	-1.0	-0.9	-0.9	-0.8	-0.7	-0.5	-0.4	-0.3	-0.2	-0.2	-0.3	-0.3			-1.0	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 0 DEG      MONTHLY MAXIMUM = 3.2 Deg C ON 8/29 AT 600  
 MONTHLY MINIMUM = -1.0 Deg C ON 8/13 AT 1300

MEANS REQUIRE 75% VALID DATA  
 MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

Delta T between 40M and 10M in Deg C for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.7	1.0	1.0	0.8	0.8	0.0	-0.3	-0.5	-0.6	-0.7	-0.7	-0.9	-0.8	-0.8	-0.8	-0.7	-0.6	-0.4	-0.1	0.7	1.3	0.7	0.9	1.0	0.0	1.3	-0.9
02	1.0	1.2	1.4	1.4	0.9	0.9	0.1	-0.4	-0.6	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.6	-0.6	-0.4	-0.1	0.8	1.2	1.1	0.6	0.4	0.2	1.4	-0.8
03	0.4	0.7	1.0	1.2	1.4	1.4	0.7	-0.4	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.8	-0.8	-0.6	-0.3	0.3	0.8	0.1	-0.1	-0.1	-0.2	0.0	1.4	-0.8
04	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.5	-0.6	-0.6	-0.3	-0.2	-0.5	-0.9	-0.9	-0.9	-0.8	-0.5	-0.3	-0.3	-0.3	-0.1	-0.2	-0.2	-0.4	-0.1	-0.9
05	-0.2	-0.0	-0.2	0.2	0.6	0.3	-0.3	-0.7	-0.9	-1.0	-1.0	-1.0	-1.0	-0.9	-0.9	-0.7	-0.6	-0.3	0.6	1.8	2.0	2.2	1.4	1.6	0.0	2.2	-1.0
06	1.9	1.8	1.8	0.9	1.2	1.0	0.5	-0.4	-0.6	-0.7	-0.7	-0.8	-0.7	-0.7	-0.7	-0.5	-0.5	-0.3	0.5	1.3	1.7	1.7	2.1	1.5	0.5	2.1	-0.8
07	1.6	1.4	0.6	1.4	1.2	1.0	0.3	-0.4	-0.6	-0.6	-0.8	-0.8	-0.8	-0.7	-0.8	-0.8	-0.5	-0.2	0.1	0.2	0.0	-0.1	-0.2	-0.1	0.0	1.6	-0.8
08	-0.2	-0.2	-0.2	-0.1	0.0	0.2	-0.2	-0.7	-0.8	-0.8	-0.8	-0.7	-0.7	-0.8	-0.7	-0.6	-0.6	-0.3	0.3	1.1	1.3	0.6	0.3	0.6	-0.2	1.3	-0.8
09	1.1	0.3	0.6	0.4	1.1	1.4	0.8	-0.3	-0.8	-0.7	-0.9	-1.0	-0.8	-0.9	-0.6	-0.8	-0.6	-0.3	0.0	0.1	0.6	1.0	0.3	0.2	0.0	1.4	-1.0
10	0.3	0.4	0.9	0.7	0.8	0.6	0.1	-0.5	-0.6	-0.7	-0.6	-0.8	-0.9	-0.7	-0.7	-0.7	-0.6	-0.3	-0.2	0.1	0.7	1.3	1.5	1.4	0.1	1.5	-0.9
11	1.3	1.4	1.8	2.2	2.0	2.0	0.5	-0.6	-0.8	-0.9	-0.7	-0.7	-0.6	-0.7	-0.6	-0.5	-0.5	-0.3	0.6	1.2	1.3	1.2	1.6	0.7	0.5	2.2	-0.9
12	0.7	1.2	1.4	1.7	1.6	1.3	0.8	-0.4	-0.5	-0.6	-0.8	-0.7	-0.7	-0.7	-0.6	-0.6	-0.4	-0.1	0.3	0.8	0.2	0.9	1.0	1.7	0.3	1.7	-0.8
13	1.6	2.2	2.3	1.7	1.0	0.4	0.5	-0.5	-0.6	-0.8	-0.7	-0.7	-0.7	-0.7	-0.6	-0.7	-0.4	-0.0	0.7	0.1	0.6	0.9	0.9	0.9	0.3	2.3	-0.8
14	0.5	0.6	1.4	1.0	1.1	0.4	-0.3	-0.6	-0.7	-1.0	-1.3	-0.9	-1.1	-0.8	-0.8	-0.9	-0.5	-0.3	-0.1	0.0	-0.2	-0.1	-0.3	-0.3	-0.2	1.4	-1.3
15	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	-0.4	-0.2	-0.5
16	-0.2	-0.2	-0.2	-0.2	-0.1	-0.0	-0.4	-0.4	-0.4	-0.4	-0.5	-0.6	-0.6	-0.6	-0.6	-0.4	-0.3	-0.0	1.4	1.9	1.3	1.2	0.4	0.5	0.0	1.9	-0.6
17	1.1	1.1	1.0	1.0	0.7	0.6	0.1	-0.3	-0.5	-0.6	-0.6	-0.7	-0.6	-0.6	-0.7	-0.7	-0.3	0.1	0.8	1.2	1.0	1.1	0.8	0.6	0.2	1.2	-0.7
18	0.7	0.7	0.4	0.2	0.4	0.4	0.1	-0.3	-0.8	-0.9	-1.0	-0.9	-0.9	-0.9	-0.8	-0.7	-0.6	0.1	1.7	2.2	3.1	2.8	2.3	2.2	0.4	3.1	-1.0
19	1.9	1.2	1.3	1.2	1.8	1.9	0.3	-0.5	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.5	-0.4	-0.1	0.6	0.8	0.8	0.3	0.3	0.3	0.3	1.9	-0.7
20	0.5	0.9	1.0	1.4	1.2	1.4	0.5	-0.3	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.6	-0.5	-0.4	0.0	1.2	2.1	1.6	1.0	0.9	1.5	0.4	2.1	-0.7
21	2.2	2.0	1.0	1.2	0.0	-0.0	-0.3	-0.7	-1.0	-1.0	-1.0	-0.9	-0.9	-0.8	-0.8	-0.6	-0.4	-0.1	0.7	2.9	3.1	2.4	0.4	0.6	0.3	3.1	-1.0
22	0.4	0.3	0.4	0.2	-0.2	-0.2	-0.4	-0.7	-0.7	-0.9	-1.1	-1.1	-1.1	-0.9	-0.7	-0.6	-0.5	-0.2	0.7	1.4	1.0	1.0	0.7	1.0	-0.1	1.4	-1.1
23	1.2	1.2	2.0	1.4	1.1	1.3	1.7	-0.4	-0.5	-0.5	-0.5	-0.5	-0.6	-0.5	-0.5	-0.5	-0.4	0.3	1.6	2.3	2.5	2.9	2.1	2.0	0.8	2.9	-0.6
24	1.4	1.6	1.4	1.9	2.1	2.2	1.4	0.1	-0.5	-0.6	-0.6	-0.8	-0.8	-0.7	-0.7	-0.6	-0.4	0.9	2.9	3.4	2.2	2.2	2.1	1.6	0.9	3.4	-0.8
25	2.0	3.1	3.0	2.4	2.9	4.3	2.8	-0.1	-0.8	-0.7	-0.7	-0.6	-0.6	-0.8	-0.7	-0.6	-0.4	0.8	1.8	1.9	1.4	0.7	0.7	1.0	0.9	4.3	-0.8
26	1.3	1.6	1.8	2.3	1.0	1.7	1.2	-0.4	-0.4	-0.7	-0.7	-0.8	-0.8	-0.7	-0.5	-0.5	-0.3	0.1	1.0	0.7	1.3	3.4	2.6	4.3	0.8	4.3	-0.8
27	4.3	4.3	4.2	2.6	1.2	1.6	0.7	-0.4	-0.6	-0.6	-0.6	-0.5	-0.5	-0.7	-0.6	-0.5	-0.4	0.5	2.1	0.9	0.5	0.5	0.7	0.9	0.8	4.3	-0.7
28	1.3	1.0	1.4	1.1	0.8	1.1	1.5	-0.2	-0.4	-0.6	-0.8	-0.7	-0.8	-0.7	-0.5	-0.4	-0.2	0.1	1.3	2.1	2.0	1.7	1.8	3.1	0.6	3.1	-0.8
29	2.4	1.4	0.8	1.4	0.8	0.6	1.1	-0.3	-0.6						0.1	0.4	1.5	0.3	0.2	1.4	1.5	1.1	0.8	0.8	2.4	-0.6	
30	0.7	0.7	0.3	0.1	0.1	0.1	-0.1	-0.4	-0.7	-0.9	-1.0	-0.9	-0.8	-0.8	-0.7	-0.6	-0.4	0.1	1.5	2.1	1.7	2.4	2.1	1.7	0.3	2.4	-1.0
MEAN	1.0	1.1	1.1	1.0	0.9	0.9	0.4	-0.4	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.6	-0.4	-0.0	0.7	1.1	1.2	1.2	1.0	1.0	0.3		
MAX	4.3	4.3	4.2	2.6	2.9	4.3	2.8	0.1	-0.3	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	0.1	0.4	1.5	2.9	3.4	3.1	3.4	2.6	4.3	4.3		
MIN	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.7	-1.0	-1.0	-1.3	-1.1	-1.1	-0.9	-0.9	-0.9	-0.8	-0.5	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3			-1.3

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 714      DATA RECOVERY RATE = 99.2 %

MONTHLY MEAN = 0.3 DEG

MONTHLY MAXIMUM = 4.3 Deg C ON 9/27 AT 200

MONTHLY MINIMUM = -1.3 Deg C ON 9/14 AT 1100

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix C.3**  
**Atmospheric Stability**

National Enrichment Facility

Stability based on Delta T between 40M and 10M in Deg C/100M for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	E	E	E	E	E	E	D	A	A	A	A	A	A	A	A	A	A	B	D	D	D	D	E	E
02	E	E	E	E	E	D	D	A	A	A	A	A	A	A	A	A	A	B	D	E	E	E	E	E
03	E	F	F	F	F	E	D	C	A	A	A	A	A	A	A	A	A	B	D	E	F	F	G	F
04	F	F	F	F	F	G	D	B	A	A	A	A	A	A	A	A	A	C	D	E	E	E	E	E
05	E	F	F	F	F	F	D	B	A	A	A	A	A	A	A	A	A	C	D	E	F	F	F	F
06	F	F	G	G	G	G	D	B	A	A	A	A	A	A	A	A	B	D	D	E	F	F	G	F
07	F	G	G	G	F	F	D	B	A	A	A	A	A	A	A	A	A	C	D	E	F	F	G	G
08	F	G	G	F	G	G	D	C	A	A	A	A	A	A	A	A	B	C	D	E	F	F	G	E
09	E	E	E	E	F	F	D	B	A	A	A	A	A	A	A	A	A	B	D	E	F	G	G	F
10	E	F	F	F	F	E	D	A	A	A	A	A	A	A	A	A	A	B	D	E	E	E	F	F
11	F	F	E	E	E	E	D	A	A	A	A	A	A	A	A	A	B	D	D	D	D	D	D	D
12	E	E	E	E	E	E	D	A	A	A	A	A	A	A	A	A	A	B	D	D	E	E	D	D
13	D	E	E	F	E	E	D	D	A	A	A	A	A	A	A	A	A	D	D	D	F	E	E	F
14	G	G	F	F	G	G	E	B	B	A	A	A	A	A	A	A	A	C	D	E	E	E	E	E
15	F	F	F	F	F	F	D	A	A	A	A	A	A	A	A	A	A	C	D	E	F	F	F	G
16	F	G	F	G	F	F	D	B	A	A	A	A	A	A	A	A	A	D	D	D	D	E	D	E
17	E	E	E	F	F	F	D	B	A	A	A	A	A	A	A	A	A	C	D	E	E	F	F	F
18	F	F	F	F	F	F	D	B	A	A	A	A	A	A	A	A	A	C	D	F	F	G	G	G
19	G	F	F	F	F	F	D	B	A	B	A	A	A	A	A	A	B	D	D	E	F	E	F	F
20	F	F	E	E	F	E	D	D	A	A	A	A	A	A	A	A	A	C	D	E	E	F	F	F
21	F	E	E	E	F	E	D	A	A	A	A	A	A	A	A	A	A	C	D	E	E	E	E	E
22	E	E	E	E	E	E	D	B	A	A	A	A	A	A	A	A	A	C	D	E	G	F	F	F
23	F	F	E	E	E	E	D	D	C	A	A	A	A	A	B	C	B	B	D	E	E	E	E	E
24	E	F	F	F	F	E	D	B	A	A	A	A	A	A	A	A	A	C	D	E	E	E	E	E
25	E	E	F	F	F	E	D	C	B	A	A	A	A	A	A	A	A	D	D	F	F	F	F	F
26	F	F	F	F	F	F	D	C	A	A	A	A	A	A	A	A	A	C	E	F	G	F	E	E
27	E	E	E	F	F	E	D	B	A	A	A	A	A	A	A	A	A	C	D	E	E	E	E	E
28	E	F	F	F	F	F	D	B	A	A	A	A	A	A	A	A	A	C	D	E	E	E	E	E
29	E	F	F	F	F	G	D	C	A	A	A	A	A	A	A	D	E	E	E	F	F	F	G	G
30	F	G	G	F	G	G	F	C	A	A	A	A	A	A	A	C	D	D	D	E	D	D	D	E
31	E	E	E	E	E	E	D	A	A	A	A	A	A	A	A	A	A	B	D	F	F	G	G	F

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	272	36.6%
B	31	4.2%
C	24	3.2%
D	90	12.1%
E	146	19.6%
F	140	18.8%
G	41	5.5%

MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

Stability based on Delta T between 40M and 10M in Deg C/100M for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	E	F	F	F	F	F	D	B	A	A	A	A	A	A	A	A	A	D	E	F	E	E	F	G
02	F	F	F	F	G	G	E	B	A	A	A	A	A	A	A	A	A	C	D	F	F	F	F	F
03	E	F	F	F	E	G	F	D	D	A	A	A	A	A	A	A	A	C	D	E	F	F	F	F
04	F	F	F	E	F	F	D	B	B	A	A	A	A	A	A	A	A	D	D	E	G	F	F	F
05	F	F	G	G	G	G	D	C	A	A	A	A	A	A	A	A	A	C	D	E	E	F	F	F
06	F	G	F	F	F	F	D	B	A	A	A	A	A	A	A	A	B	D	E	F	F	F	F	E
07	E	E	E	E	E	E	D	B	A	A	A	A	A	A	A	A	A	D	D	D	E	F	F	F
08	F	F	G	G	F	E	D	A	A	A	A	A	A	A	A	A	B	D	E	F	E	F	E	E
09	E	E	E	F	F	F	D	B	A	A	A	A	A	A	A	A	A	D	D	E	E	E	F	F
10	E	E	F	G	F	F	D	C	A	A	A	A	A	A	A	A	B	D	E	E	E	E	F	F
11	E	E	E	E	E	F	E	A	A	A	A	A	A	A	B	D	D	D	D	D	E	D	D	D
12	D	D	D	D	E	F	E	B	B	A	A	A	A	A	A	B	A	D	D	E	F	F	F	F
13	F	F	E	F	G	F	D	C	A	A	A	A	A	A	A	A	A	C	D	D	D	E	E	E
14	E	E	E	E	F	F	D	B	A	A	A	A	A	A	A	A	A	C	D	E	E	E	F	F
15	E	E	E	E	F	F	E	D	B	A	A	A	A	A	A	A	C	D	E	F	F	F	E	E
16	E	E	F	F	F	F	D	B	B	A	A	A	A	A	A	A	A	D	D	E	E	E	E	E
17	E	F	F	G	G	F	D	C	C	A	A	A	A	A	A	A	C	D	D	E	F	E	E	F
18	F	F	F	F	F	E	E	C	A	A	A	A	A	A	A	A	A	D	E	F	F	F	F	F
19	F	G	G	G	F	F	E	B	A	A	A	A	A	A	A	A	A	D	D	E	E	E	F	F
20	F	E	F	F	E	E	D	C	A	A	A	A	A	A	A	A	A	D	D	E	E	E	E	E
21	E	E	E	E	E	E	D	C	B	A	A	A	A	A	A	A	B	C	D	E	F	E	E	E
22	G	G	G	F	F	E	D	C	A	A	A	A	A	A	A	A	B	D	E	E	F	F	F	F
23	F	F	F	G	G	F	E	C	A	A	A	A	A	A	A	A	B	D	E	F	F	F	F	F
24	G	G	F	G	F	F	E	D	A	A	A	A	A	A	A	A	A	D	D	F	F	F	E	E
25	F	F	F	F	F	F	F	D	C	B	A	A	A	A	A	A	B	D	D	D	E	E	E	E
26	F	G	G	G	G	G	F	D	B	A	A	A	A	A	A	A	C	D	E	F	F	G	F	F
27	G	G	F	F	F	F	F	D	C	A	A	A	A	A	A	A	C	D	E	G	G	G	G	G
28	E	F	F	F	F	F	F	D	A	A	A	A	A	A	A	A	B	D	F	G	G	G	G	F
29	F	F	F	F	G	G	G	D	B	B	B	B	A	A	B	A	C	D	D	F	F	F	E	E
30	E	E	E	E	E	E	E	C	A	A	A	A	A	A	C	C	D	D	E	E	E	E	D	E
31	E	E	E	E	E	E	D	C	B	A	A	A	A	A	A	A	A	D	E	E	E	E	F	F

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	244	32.8%
B	33	4.4%
C	27	3.6%
D	83	11.2%
E	142	19.1%
F	168	22.6%
G	47	6.3%

MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

Stability based on Delta T between 40M and 10M in Deg C/100M for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	F	F	F	F	F	E	D	C	A	A	A	A	A	A	A	A	B	D	E	F	G	F	F	F
02	F	G	G	G	F	F	E	D	A	A	A	A	A	A	A	A	B	D	E	F	G	F	F	E
03	E	F	F	G	F	F	F	D	C	A	A	A	A	A	A	A	A	D	E	F	E	E	E	D
04	D	D	D	D	D	D	D	C	A	B	D	D	B	A	A	A	A	C	D	D	D	E	D	D
05	D	E	D	E	F	E	D	A	A	A	A	A	A	A	A	A	A	D	F	G	G	G	G	G
06	G	G	G	F	F	F	F	D	A	A	A	A	A	A	A	B	D	D	F	G	G	G	G	G
07	G	G	F	G	F	F	E	D	A	A	A	A	A	A	A	A	B	D	E	E	E	E	D	E
08	D	D	D	E	E	E	D	A	A	A	A	A	A	A	A	A	B	D	E	F	G	F	E	F
09	F	E	F	E	F	G	F	D	A	A	A	A	A	A	A	A	A	D	E	E	F	F	E	E
10	E	E	F	F	F	F	E	C	A	A	A	A	A	A	A	A	A	D	D	E	F	G	G	G
11	G	G	G	G	G	G	F	B	A	A	A	A	A	A	B	B	C	D	F	G	G	G	G	F
12	F	F	G	G	G	G	F	D	C	A	A	A	A	A	A	B	D	E	E	F	E	F	F	G
13	G	G	G	G	F	E	F	C	A	A	A	A	A	A	B	A	D	E	F	E	F	F	F	F
14	F	F	G	F	F	E	D	A	A	A	A	A	A	A	A	A	B	D	E	E	D	E	D	D
15	D	D	D	D	D	D	D	D	D	B	B	B	B	C	C	B	C	D	D	D	D	D	D	D
16	D	D	D	D	E	E	D	D	D	D	B	B	B	A	B	D	D	E	G	G	G	E	F	F
17	F	F	F	F	F	F	E	D	B	B	A	A	A	A	A	A	D	E	F	G	F	F	F	F
18	F	F	E	E	E	E	E	D	A	A	A	A	A	A	A	A	B	E	G	G	G	G	G	G
19	G	G	G	G	G	G	E	C	B	A	A	A	A	A	A	B	D	E	F	F	F	E	E	E
20	F	F	F	G	G	G	F	D	B	A	A	A	A	A	A	B	D	E	G	G	G	F	F	G
21	G	G	F	F	E	E	D	A	A	A	A	A	A	A	A	A	D	E	F	G	G	G	E	F
22	E	E	E	E	D	D	D	A	A	A	A	A	A	A	A	A	C	D	F	G	F	F	F	F
23	F	F	G	G	F	G	G	D	B	C	B	C	A	C	B	B	D	E	G	G	G	G	G	G
24	G	G	G	G	G	G	G	E	C	A	A	A	A	A	A	A	D	F	G	G	G	G	G	G
25	G	G	G	G	G	G	G	E	A	A	A	B	A	A	A	A	D	F	G	G	G	F	F	F
26	G	G	G	G	F	G	F	D	D	A	A	A	A	A	C	C	D	E	F	F	G	G	G	G
27	G	G	G	G	G	G	F	D	A	B	A	B	C	A	A	C	D	F	G	F	F	F	F	F
28	G	F	G	F	F	F	G	D	D	A	A	A	A	A	B	D	D	E	G	G	G	G	G	G
29	G	G	F	F	F	F	F	D	B	A	A	A	A	A	A	E	E	G	E	E	G	G	F	F
30	F	F	E	E	E	E	E	D	A	A	A	A	A	A	A	A	D	E	G	G	G	G	G	G

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 714      DATA RECOVERY RATE = 99.2 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	191	26.8%
B	39	5.5%
C	21	2.9%
D	102	14.3%
E	86	12.0%
F	126	17.6%
G	149	20.9%

MISSING DATA DENOTED BY BLANKS



**Appendix D**  
**Hourly Relative Humidity Data for July through September 2011**

National Enrichment Facility

RELATIVE HUMIDITY in percent for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	52	56	56	57	61	62	59	53	47	40	35	31	29	26	24	25	26	27	30	32	36	41	45	49	42	62	24
02	53	56	59	62	67	69	60	50	42	36	32	29	28	27	25	25	25	25	26	28	32	36	38	40	40	69	25
03	45	51	55	58	60	62	55	48	38	32	28	27	25	24	22	21	22	26	25	26	28	30	33	32	36	62	21
04	33	34	36	39	41	44	42	39	33	28	24	22	20	17	14	14	15	16	17	21	24	25	28	30	27	44	14
05	33	35	38	40	41	41	36	32	29	25	23	21	20	20	17	16	16	17	18	20	22	24	24	28	27	41	16
06	31	34	38	41	42	42	37	32	26	22	19	18	17	18	17	16	17	16	16	18	20	23	25	27	26	42	16
07	31	35	39	41	43	43	37	31	27	24	22	19	16	15	14	14	14	14	15	18	20	22	24	27	25	43	14
08	30	34	38	40	42	43	37	31	27	22	16	14	14	14	14	14	15	16	18	21	24	27	30	31	26	43	14
09	34	36	39	39	40	41	36	31	28	25	23	21	19	18	17	16	17	18	19	22	24	27	29	29	27	41	16
10	31	34	41	44	45	45	43	43	37	30	28	27	27	25	24	24	24	23	23	23	24	27	31	36	32	45	23
11	39	42	45	51	61	66	64	58	51	43	37	32	29	26	23	22	22	21	23	29	47	51	54	53	41	66	21
12	54	56	56	56	58	59	57	52	44	37	33	30	26	24	24	28	37	49	50	48	50	55	56	61	46	61	24
13	66	71	69	71	69	68	59	52	46	38	33	28	25	24	23	23	22	22	22	52	74	75	71	71	51	75	22
14	73	81	84	83	76	72	55	45	39	34	28	27	26	25	23	22	20	21	22	25	30	29	30	32	42	84	20
15	35	39	43	47	49	51	46	40	34	27	23	23	20	18	18	17	17	17	19	21	24	27	28	31	30	51	17
16	34	37	38	40	41	43	40	36	32	29	26	25	23	22	22	24	22	28	27	29	31	33	36	36	31	43	22
17	39	39	41	44	45	45	43	42	40	34	32	31	31	30	28	27	26	26	26	26	28	29	29	28	34	45	26
18	30	32	34	35	38	41	40	42	38	31	27	26	24	23	22	22	23	23	24	27	29	30	31	33	30	42	22
19	34	37	41	42	43	41	36	31	27	25	23	22	20	20	19	20	20	20	21	24	27	35	39	43	30	43	19
20	47	48	49	53	56	57	51	49	39	29	24	19	18	18	17	18	18	18	19	21	24	28	30	35	33	57	17
21	41	46	47	50	52	51	45	44	40	34	29	25	23	22	21	21	21	22	24	27	30	32	34	39	34	52	21
22	45	48	51	54	55	57	56	57	52	45	37	32	29	26	24	24	25	26	30	45	53	55	60	63	44	63	24
23	65	66	65	67	73	75	67	59	53	48	38	32	31	29	28	28	26	27	28	30	36	39	42	49	46	75	26
24	54	57	58	59	61	61	58	56	52	47	40	35	32	30	28	26	26	25	26	30	34	38	41	44	42	61	25
25	46	49	51	52	53	53	48	42	38	33	29	24	22	19	18	17	17	17	19	22	23	26	27	32	53	17	
26	28	30	33	37	41	43	39	31	24	20	16	15	15	14	14	13	13	14	15	19	23	27	29	32	24	43	13
27	33	35	40	44	46	46	40	35	32	28	24	22	19	18	17	17	17	17	18	20	21	24	27	28	28	46	17
28	31	35	39	41	41	42	39	34	31	27	22	20	21	20	19	18	18	18	20	22	27	29	34	38	29	42	18
29	41	45	48	50	50	53	45	47	46	39	30	26	27	26	25	38	44	35	33	34	35	39	42	47	39	53	25
30	49	50	53	51	53	59	51	53	51	42	32	31	28	27	27	33	44	30	29	33	48	58	62	63	44	63	27
31	65	67	70	73	74	73	69	62	54	48	41	35	32	29	26	23	20	20	21	23	26	28	32	37	44	74	20
MEAN	43	46	48	50	52	53	48	44	39	33	28	25	24	22	21	21	22	22	24	28	31	34	37	39	35		
MAX	73	81	84	83	76	75	69	62	54	48	41	35	32	30	28	38	44	49	52	74	75	75	71	71		84	
MIN	28	30	33	35	38	41	36	31	24	20	16	14	14	14	14	13	13	14	15	18	20	22	24	27			13

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 35 percent

MAXIMUM RELATIVE HUMIDITY WAS 84 percent ON 7/14 AT 300      MAXIMUM DAILY MEAN WAS 51 percent ON 7/13

MINIMUM RELATIVE HUMIDITY WAS 13 percent ON 7/26 AT 1700      MINIMUM DAILY MEAN WAS 24 percent ON 7/26

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

RELATIVE HUMIDITY in percent for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN	
01	44	50	53	53	57	59	55	46	39	34	27	20	19	17	16	16	16	17	19	22	24	27	30	33	33	59	16	
02	34	34	37	38	40	41	37	31	27	23	20	18	16	15	14	13	13	13	14	17	20	22	26	30	25	41	13	
03	34	39	43	46	47	49	45	38	33	29	27	25	23	21	19	18	18	18	20	23	26	28	30	34	31	49	18	
04	35	38	41	44	45	45	40	35	31	29	28	25	22	21	19	18	17	18	18	22	24	25	28	30	29	45	17	
05	31	31	33	36	37	40	35	31	27	24	22	20	18	17	15	14	15	16	18	20	22	25	27	29	25	40	14	
06	31	34	36	41	44	45	43	41	38	32	26	20	18	17	16	15	15	16	18	20	23	25	29	30	28	45	15	
07	34	38	42	44	45	46	44	39	32	22	20	18	17	15	14	13	12	20	36	37	36	36	35	36	30	46	12	
08	39	43	46	49	49	48	46	40	37	32	27	24	22	19	17	16	16	16	17	20	21	22	26	33	30	49	16	
09	37	40	43	45	46	46	43	39	36	32	24	19	19	19	18	18	16	16	18	22	24	25	30	36	30	46	16	
10	42	46	50	53	55	55	48	42	36	29	23	19	15	14	12	11	11	11	14	23	28	30	31	37	31	55	11	
11	40	43	47	49	51	53	48	36	30	28	26	24	21	23	28	34	48	48	46	56	56	54	59	66	42	66	21	
12	68	70	67	70	76	77	73	63	49	42	39	33	30	29	26	28	27	27	35	40	42	45	46	50	48	77	26	
13	52	55	55	61	63	64	61	64	59	52	43	36	32	32	35	35	36	34	37	43	48	52	57	62	49	64	32	
14	64	61	64	68	71	73	68	57	50	44	38	33	28	40	44	43	38	37	36	40	48	52	57	61	51	73	28	
15	63	65	69	70	72	73	67	53	44	35	31	27	25	24	24	24	22	22	24	26	29	29	28	31	41	73	22	
16	35	39	42	43	45	46	42	39	37	33	28	25	23	23	22	22	21	22	23	25	26	28	30	32	31	46	21	
17	35	37	49	55	54	54	50	45	43	36	31	27	23	21	22	20	21	21	22	24	27	29	33	38	34	55	20	
18	39	42	44	46	46	46	45	42	37	30	28	26	23	22	22	21	21	21	22	25	27	28	31	34	32	46	21	
19	37	41	43	44	45	47	43	36	31	26	22	19	16	15	15	16	17	18	20	23	25	27	30	32	29	47	15	
20	33	33	34	37	39	41	39	33	31	30	27	24	22	19	18	18	20	21	23	23	24	26	28	33	28	41	18	
21	37	41	43	45	49	51	48	42	36	30	26	23	20	19	19	19	20	22	24	26	27	29	31	34	32	51	19	
22	39	42	46	50	52	51	49	48	44	37	29	26	23	22	23	21	21	22	25	27	29	30	34	37	34	52	21	
23	40	42	47	50	54	57	54	48	43	35	27	24	22	20	19	18	18	19	21	24	26	26	28	30	33	57	18	
24	35	39	40	42	45	46	43	39	33	28	25	23	22	20	20	19	20	21	23	26	29	31	33	35	31	46	19	
25	37	41	40	41	43	44	45	36	33	29	26	24	22	19	17	17	16	16	32	37	33	32	35	39	31	45	16	
26	41	45	46	47	49	50	45	35	31	28	25	23	22	18	16	16	18	19	21	22	24	27	29	30	30	50	16	
27	33	38	40	43	45	45	39	29	26	23	21	19	17	15	14	14	14	14	15	19	21	22	24	27	26	45	14	
28	30	33	34	35	37	37	33	26	21	19	16	14	13	12	12	11	11	12	13	15	18	20	21	21	21	37	11	
29	22	23	23	24	26	26	28	24	19	17	15	15	14	13	13	13	12	12	14	16	19	19	20	25	19	28	12	
30	28	30	31	31	32	33	31	27	23	20	16	14	13	12	12	12	12	14	14	17	19	23	20	22	24	22	33	12
31	25	27	28	28	30	32	33	31	28	24	20	18	17	18	16	15	16	16	17	19	22	25	29	33	24	33	15	
MEAN	39	41	44	46	48	49	46	40	35	30	26	23	21	20	19	19	19	20	23	26	28	30	32	35	32			
MAX	68	70	69	70	76	77	73	64	59	52	43	36	32	40	44	43	48	48	46	56	56	54	59	66		77		
MIN	22	23	23	24	26	26	28	24	19	17	15	14	13	12	12	11	11	11	13	15	18	19	20	21			11	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 32 percent

MAXIMUM RELATIVE HUMIDITY WAS 77 percent ON 8/12 AT 600      MAXIMUM DAILY MEAN WAS 51 percent ON 8/14

MINIMUM RELATIVE HUMIDITY WAS 11 percent ON 8/10 AT 1800      MINIMUM DAILY MEAN WAS 19 percent ON 8/29

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

RELATIVE HUMIDITY in percent for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	36	39	42	44	49	58	60	44	36	32	30	27	25	23	22	21	22	22	23	26	27	31	33	33	34	60	21
02	33	33	36	40	42	45	48	50	43	37	34	31	28	26	24	23	22	23	24	27	28	30	33	38	33	50	22
03	40	39	40	43	42	44	40	34	31	29	24	22	21	20	18	17	18	19	21	24	30	39	41	46	31	46	17
04	59	66	69	69	73	73	76	80	76	80	88	84	77	72	67	65	67	71	74	72	66	61	56	52	71	88	52
05	52	52	48	50	62	65	56	41	34	30	27	25	23	22	21	20	21	22	24	27	29	32	32	32	35	65	20
06	31	30	30	30	32	32	29	23	19	18	17	17	15	14	13	13	13	13	14	15	14	12	12	12	20	32	12
07	14	14	15	19	19	19	19	15	13	11	10	9	9	9	8	8	8	9	11	13	17	21	23	25	14	25	8
08	26	26	27	28	30	33	34	30	26	22	19	17	16	15	15	14	14	16	19	21	23	26	28	31	23	34	14
09	33	34	35	35	37	37	39	35	28	25	25	23	23	23	24	25	24	25	28	30	33	36	34	33	30	39	23
10	34	35	37	38	39	39	39	32	28	28	27	24	22	22	22	23	25	29	32	37	46	46	50	55	34	55	22
11	60	61	61	59	61	60	55	40	32	27	24	22	21	19	18	17	16	17	19	21	22	23	25	27	34	61	16
12	28	29	31	32	34	34	33	29	24	19	16	15	14	13	13	13	14	14	15	16	19	21	23	23	22	34	13
13	24	25	27	28	30	31	32	29	24	19	15	14	14	14	13	12	13	13	14	19	21	22	23	23	21	32	12
14	24	25	28	31	33	42	62	57	48	40	34	34	35	32	30	30	29	30	33	43	62	64	69	75	41	75	24
15	85	91	91	93	92	92	92	93	91	89	87	85	84	85	88	86	88	88	89	92	94	92	90	90	89	94	84
16	91	94	94	92	91	92	92	91	88	86	82	73	64	53	52	51	50	52	59	63	59	69	73	76	74	94	50
17	80	84	87	90	93	94	94	89	63	49	39	29	26	27	25	25	29	28	36	43	52	57	62	66	57	94	25
18	68	72	76	79	84	88	87	60	48	46	39	32	27	22	22	23	23	25	30	33	40	41	44	47	48	88	22
19	50	47	49	50	58	60	56	48	42	37	31	26	21	18	19	18	19	20	24	28	31	32	32	32	35	60	18
20	34	38	39	42	41	42	44	34	31	29	27	24	21	20	18	17	17	21	27	30	30	33	34	34	30	44	17
21	38	44	44	60	63	62	57	51	45	39	34	30	28	26	24	22	22	23	26	33	35	37	45	49	39	63	22
22	51	53	57	57	61	60	56	55	56	57	57	56	52	48	45	43	42	44	49	55	57	60	62	65	54	65	42
23	67	69	71	70	71	72	78	68	57	46	38	31	26	22	18	15	18	23	26	26	29	38	41	42	44	78	15
24	43	45	47	50	50	49	45	39	28	19	15	13	11	11	10	9	8	10	12	15	17	19	21	23	25	50	8
25	21	24	26	26	29	29	27	18	12	10	12	11	9	7	6	7	7	8	9	10	17	31	35	37	18	37	6
26	40	43	45	53	51	55	55	44	30	21	14	11	10	9	9	9	9	10	12	14	17	17	15	19	26	55	9
27	22	28	30	43	52	59	60	49	40	31	23	18	16	14	12	11	12	14	18	23	29	34	40	46	30	60	11
28	50	52	54	56	60	66	66	47	30	26	25	23	21	18	15	14	20	21	24	29	28	24	33	36	35	66	14
29	38	40	48	52	54	57	59	51	39							24	19	26	29	33	44	49	51	54	43	59	19
30	54	55	49	47	47	48	43	32	26	24	22	20	19	19	18	18	18	20	24	26	26	28	26	26	31	55	18
MEAN	44	46	48	50	53	55	54	47	40	35	32	29	27	25	24	23	23	25	28	31	35	38	40	42	37		
MAX	91	94	94	93	93	94	94	93	91	89	88	85	84	85	88	86	88	88	89	92	94	92	90	90		94	
MIN	14	14	15	19	19	19	19	15	12	10	10	9	9	7	6	7	7	8	9	10	14	12	12	12			6

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 714      DATA RECOVERY RATE = 99.2 %

MONTHLY MEAN = 37 percent

MAXIMUM RELATIVE HUMIDITY WAS 94 percent ON 9/17 AT 700      MAXIMUM DAILY MEAN WAS 89 percent ON 9/15

MINIMUM RELATIVE HUMIDITY WAS 6 percent ON 9/25 AT 1500      MINIMUM DAILY MEAN WAS 14 percent ON 9/ 7

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix E**  
**Hourly Solar Radiation Data for July through September 2011**

National Enrichment Facility

SOLAR RADIATION in W/M^2 for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01						82	284	510	713	872	936	1044	1045	871	821	509	414	222	53						8376	1045
02						78	261	514	669	871	927	1049	896	819	856	649	338	246	54						8227	1049
03						76	272	480	684	848	926	990	598	622	857	492	384	209	62						7500	990
04						70	269	497	698	852	956	1024	986	934	863	661	472	251	66						8599	1024
05						62	263	494	690	882	871	1030	1029	550	726	618	425	197	51						7888	1030
06						72	272	501	707	870	984	1048	817	527	621	506	315	215	43						7498	1048
07						73	270	497	701	862	977	1032	1034	963	862	686	487	226	55						8725	1034
08						72	263	487	691	856	978	1039	1028	945	861	628	442	230	53						8573	1039
09						65	253	479	682	840	959	1020	1016	944	836	656	450	237	56						8493	1020
10						69	263	487	691	853	971	1008	1008	913	793	658	423	231	61						8429	1008
11						70	265	485	689	861	900	933	1000	825	784	520	340	164	33						7869	1000
12						64	264	485	690	853	973	1061	971	759	563	383	302	161	27						7556	1061
13						32	115	189	652	850	960	1028	920	759	827	730	366	58	4						7490	1028
14						73	264	483	669	849	971	1024	1022	942	595	432	514	195	31						8064	1024
15						68	276	524	724	881	1004	1056	1020	970	849	668	463	248	62						8813	1056
16						65	262	473	688	848	984	959	907	857	499	318	318	65	26						7269	984
17						58	249	474	681	748	861	697	397	870	862	666	411	168	45						7187	870
18						64	259	486	694	852	949	864	803	835	522	376	387	215	40						7346	949
19						58	247	477	685	844	885	760	740	671	739	483	382	154	48						7173	885
20						32	141	235	685	896	869	925	854	853	807	612	388	198	44						7539	925
21						57	245	477	682	842	973	1056	762	905	641	628	478	240	38						8024	1056
22						51	241	466	670	841	969	1034	986	1013	744	662	186	97	13						7973	1034
23						52	245	480	677	834	958	1000	678	587	323	206	395	252	30						6717	1000
24						51	245	471	680	842	969	870	848	763	623	684	461	195	45						7747	969
25						54	246	475	686	844	979	1017	636	743	654	695	402	229	39						7699	1017
26						56	245	476	689	857	992	1047	1022	962	812	665	459	229	42						8553	1047
27						52	243	474	682	842	971	1026	1021	948	815	632	419	213	37						8375	1026
28						49	246	473	682	847	972	1027	1020	933	575	481	450	216	39						8010	1027
29						43	229	401	663	821	973	916	544	454	327	227	69	97	18						5782	973
30						19	220	457	681	822	923	808	805	753	318	79	165	187	34						6271	923
31						45	224	458	669	858	973	1050	833	658	621	587	462	224	35						7697	1050
MEAN	0	0	0	0	0	59	247	463	685	850	951	982	879	811	697	542	386	196	41	0	0	0	0	0	7789	
MAX	0	0	0	0	0	82	284	524	724	896	1004	1061	1045	1013	863	730	514	252	66	0	0	0	0	0		1061
MIN	0	0	0	0	0	19	115	189	652	748	861	697	397	454	318	79	69	58	4	0	0	0	0	0		

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = 556 W/M^2

MAXIMUM DAILY TOTAL WAS 8813 W/M^2 ON 7/15

MAXIMUM SOLAR RADIATION WAS 1061 W/M^2 ON 7/12 AT 1200

MINIMUM DAILY TOTAL WAS 5782 W/M^2 ON 7/29

MEANS REQUIRE 75% VALID DATA

MISSING DATA DENOTED BY ---

310 CASES OF SOLAR RADIATION BETWEEN 0 AND -10 SET TO 0

National Enrichment Facility

SOLAR RADIATION in W/M<sup>2</sup> for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX	
01						47	244	477	690	852	981	1042	1035	962	832	660	444	216	35						8517	1042	
02						47	236	461	683	835	968	1026	1024	953	854	549	437	216	33							8322	1026
03						16	187	338	495	806	940	1011	971	950	726	669	386	175	27							7697	1011
04						38	218	441	651	820	955	937	779	640	697	654	435	163	29							7457	955
05						40	228	460	676	842	972	1030	1024	952	818	654	380	200	18							8294	1030
06						39	225	454	664	831	958	1018	1007	934	792	629	415	103	12							8081	1018
07						26	199	447	655	829	953	1010	1000	934	800	635	335	35	2							7860	1010
08						36	217	447	654	827	952	1011	996	938	799	627	386	137	7							8034	1011
09						29	214	420	599	769	949	1010	1004	930	772	563	417	193	14							7883	1010
10						34	212	443	660	835	958	1004	1002	934	813	605	353	172	14							8039	1004
11						30	203	429	637	806	882	989	847	282	170	53	42	40	2							5412	989
12						17	102	330	658	815	901	841	652	681	673	274	297	57	2							6300	901
13						20	161	378	609	811	889	849	854	781	726	431	243	162	16							6930	889
14						29	165	422	603	728	916	1076	730	371	412	405	457	183	17							6514	1076
15						15	118	241	556	811	933	978	1016	915	639	372	294	60	4							6952	1016
16						27	189	424	551	647	762	999	891	689	706	627	400	142	6							7060	999
17						41	144	179	421	740	684	950	967	809	444	397	130	46	5							5957	967
18						23	181	418	627	800	926	967	937	786	604	529	365	132	8							7303	967
19						21	191	420	637	814	921	945	963	912	770	586	388	164	11							7743	963
20						22	185	417	632	807	933	992	984	929	754	635	335	83								7708	992
21						25	181	415	629	814	940	1005	995	887	772	591	368	164	7							7793	1005
22						22	183	420	637	816	946	1004	991	915	718	576	375	154	8							7765	1004
23						21	184	419	634	813	944	1002	993	915	768	595	375	151	5							7819	1002
24						20	178	413	626	799	924	982	972	886	694	577	349	138	3							7561	982
25						15	154	378	593	758	854	778	726	741	733	425	332	143	4							6634	854
26						16	163	379	591	771	812	732	771	790	594	421	271	128	1							6440	812
27						16	164	386	607	788	919	962	973	901	764	543	347	128	1							7499	973
28						15	162	391	609	797	927	986	972	889	741	567	345	124								7525	986
29						3	88	287	488	353	230	258	548	721	378	573	355	95								4377	721
30						4	141	372	600	784	888	785	832	675	350	313	162	30								5936	888
31						3	45	331	346	899	1074	968	797	799	726	548	327	109								6972	1074
MEAN	0	0	0	0	0	24	176	395	604	788	897	940	911	819	679	525	340	130	9	0	0	0	0	0	0	7238	
MAX	0	0	0	0	0	47	244	477	690	899	1074	1076	1035	962	854	669	457	216	35	0	0	0	0	0	0		1076
MIN	0	0	0	0	0	3	45	179	346	353	230	258	548	282	170	53	42	30	0	0	0	0	0	0	0		

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = 523 W/M<sup>2</sup>

MAXIMUM DAILY TOTAL WAS 8517 W/M<sup>2</sup> ON 8/ 1

MAXIMUM SOLAR RADIATION WAS 1076 W/M<sup>2</sup> ON 8/14 AT 1200

MINIMUM DAILY TOTAL WAS 4377 W/M<sup>2</sup> ON 8/29

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY ---

315 CASES OF SOLAR RADIATION BETWEEN 0 AND -10 SET TO 0

National Enrichment Facility

SOLAR RADIATION in W/M<sup>2</sup> for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX
01						13	159	385	587	763	885	947	947	875	734	554	335	114							7298	947
02						13	161	369	619	727	848	856	879	904	768	574	331	108							7157	904
03						14	163	385	587	761	888	865	811	580	731	524	328	104							6741	888
04						2	53	102	183	126	109	266	524	509	496	503	307	85							3265	524
05						11	169	407	626	810	932	991	980	899	745	555	323	100							7548	991
06						11	173	417	636	819	938	995	982	900	742	552	321	96							7582	995
07						10	149	406	624	801	926	987	917	849	635	552	302	85							7243	987
08						8	156	394	598	785	903	940	947	866	585	535	294	52							7063	947
09						6	53	192	532	616	772	900	769	821	278	357	284	75							5655	900
10						2	64	212	233	291	353	677	678	578	473	375	255	77							4268	678
11						7	148	377	590	749	882	932	912	828	587	521	255	71							6859	932
12						6	139	365	570	745	880	888	890	840	392	397	139	23							6274	890
13						1	75	396	530	761	880	895	762	564	497	527	146	28							6062	895
14						2	117	303	333	699	829	535	745	424	402	417	168	29		---					5003	829
15						2	12	47	140	311	379	283	191	114	125	208	99	22							1933	379
16						6	85	156	245	363	501	967	918	834	667	449	253	53							5497	967
17						7	85	341	591	767	886	944	744	519	613	520	248	54							6319	944
18						4	137	370	594	773	890	938	919	833	679	477	252	50							6916	938
19						5	143	373	596	777	893	940	924	835	678	477	250	47							6938	940
20						4	127	368	604	730	562	940	926	737	680	435	213	41							6367	940
21						3	135	348	588	769	884	938	837	812	660	457	233	34							6698	938
22						4	63	342	359	571	842	770	856	786	634	439	220	36							5922	856
23						2	130	361	589	766	884	930	912	817	662	453	229	37							6772	930
24						2	128	361	586	763	876	922	904	813	657	453	231	33							6729	922
25						1	133	367	591	768	880	923	906	822	671	456	227	28							6773	923
26							122	343	561	742	859	912	891	764	506	365	202	25							6292	912
27							122	350	567	739	853	898	872	772	645	500	213	21							6552	898
28							117	336	550	726	837	882	857	730	449	191	126	29							5830	882
29							111	---	---	---	---	---	---	---	---	---	61	5							---	---
30							102	314	528	697	806	850	827	741	593	400	186	18							6062	850
MEAN	0	0	0	0	0	5	118	327	515	680	788	852	835	737	586	456	234	53	0	0	0	0	0	0	6194	
MAX	0	0	0	0	0	14	173	417	636	819	938	995	982	904	768	574	335	114	0	0	0	0	0	0		995
MIN	0	0	0	0	0	0	12	47	140	126	109	266	191	114	125	191	61	5	0	0	0	0	0	0		

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 710 DATA RECOVERY RATE = 98.6 %

MONTHLY MEAN OF DATA > 0 = 478 W/M<sup>2</sup> MAXIMUM DAILY TOTAL WAS 7582 W/M<sup>2</sup> ON 9/ 6

MAXIMUM SOLAR RADIATION WAS 995 W/M<sup>2</sup> ON 9/ 6 AT 1200 MINIMUM DAILY TOTAL WAS 1933 W/M<sup>2</sup> ON 9/15

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY ---

326 CASES OF SOLAR RADIATION BETWEEN 0 AND -10 SET TO 0

1 CASES OF SOLAR RADIATION BELOW -10 SET TO MISSING



**Appendix F**  
**Hourly Barometric Pressure Data for July through September 2011**

National Enrichment Facility

PRESSURE in mb for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN	
01	898	898	898	898	898	899	899	899	899	899	898	898	898	897	897	896	896	897	897	898	899	899	900	900	898	900	896	
02	900	900	900	900	900	901	902	902	902	902	902	902	901	900	900	899	899	898	899	899	900	900	901	901	900	902	898	
03	901	901	900	900	900	901	901	901	901	901	900	900	899	899	898	897	896	896	896	897	898	898	898	898	899	901	896	
04	898	899	899	899	899	899	899	900	900	899	899	899	898	897	897	896	896	896	896	897	898	898	898	898	898	900	896	
05	899	899	899	899	899	899	900	900	900	900	900	899	899	898	898	897	897	897	897	897	898	898	899	899	899	900	897	
06	899	899	900	900	900	901	901	901	901	901	900	900	899	899	898	898	897	897	897	898	898	899	899	899	899	901	897	
07	899	899	899	899	899	899	899	900	899	899	899	898	897	897	896	895	895	895	895	895	896	896	896	896	896	900	895	
08	897	896	896	896	896	897	897	897	897	897	896	896	895	895	894	894	894	894	894	894	894	894	895	895	895	895	894	
09	896	895	896	896	896	896	897	897	897	897	897	896	896	895	895	894	894	894	894	895	896	896	897	897	896	897	894	
10	897	897	897	897	897	897	898	898	898	898	898	897	897	896	896	895	895	895	895	895	896	896	897	897	898	897	898	895
11	898	898	898	898	898	898	899	899	899	898	898	898	898	897	896	896	895	895	895	895	896	897	897	898	898	897	899	895
12	897	897	897	897	898	898	898	898	898	898	898	897	896	896	895	895	895	895	895	896	896	897	897	897	897	897	898	895
13	897	897	897	897	897	897	897	898	897	897	897	896	896	895	894	893	893	893	893	894	894	895	896	896	896	896	898	893
14	896	896	896	896	896	896	896	896	896	896	896	895	895	894	893	893	892	892	892	892	893	894	894	894	895	895	896	892
15	894	894	894	895	895	895	896	896	896	895	895	895	895	895	894	893	893	893	893	893	894	894	895	895	895	894	896	893
16	895	895	896	896	896	897	897	898	898	898	897	897	897	896	896	895	895	895	896	896	896	897	898	898	899	897	899	895
17	899	899	899	899	899	900	900	901	901	902	901	901	901	901	901	900	899	899	899	899	900	900	901	901	901	900	902	899
18	901	901	901	901	902	902	903	903	903	903	903	902	901	900	900	899	899	898	899	899	899	900	900	899	901	903	898	
19	899	899	899	899	899	900	900	900	900	900	899	898	898	897	896	896	895	895	895	895	896	896	896	896	898	900	895	
20	896	896	896	896	896	897	897	897	897	896	896	895	894	894	893	893	893	893	893	893	894	894	895	895	895	895	897	893
21	895	895	895	895	895	896	896	896	896	895	895	895	894	894	893	893	892	892	893	893	894	895	895	895	894	896	892	
22	896	895	895	896	896	896	897	897	897	896	896	895	895	894	893	892	892	892	893	894	895	896	896	897	895	897	892	
23	897	897	897	897	897	897	898	898	898	898	898	897	897	896	896	896	896	896	897	897	898	899	900	900	897	900	896	
24	900	899	900	900	900	901	901	901	901	902	901	901	901	900	900	899	899	898	898	898	899	900	900	900	901	900	902	898
25	900	900	900	900	900	900	901	901	900	900	900	899	898	898	897	896	895	895	895	896	896	897	897	897	898	901	895	
26	896	896	896	896	896	896	896	896	896	896	896	895	895	894	893	893	892	892	892	892	893	894	894	895	895	895	896	892
27	895	894	895	894	894	895	895	895	895	895	895	894	894	893	893	892	892	892	892	893	894	895	895	895	894	895	892	
28	895	895	895	895	896	896	897	897	897	897	897	897	896	896	895	895	895	894	895	896	897	897	898	898	896	898	894	
29	898	898	898	899	899	900	900	900	900	901	900	900	899	899	898	898	898	897	898	899	899	900	900	900	899	901	897	
30	900	900	900	900	901	902	902	902	902	902	902	902	901	900	899	899	899	899	899	900	901	902	902	902	901	902	899	
31	903	903	903	903	903	903	903	904	904	904	903	903	902	902	901	901	900	900	900	901	901	902	902	903	902	904	900	
MEAN	898	898	898	898	898	898	899	899	899	899	898	898	897	897	896	896	895	895	896	896	897	897	898	898	897			
MAX	903	903	903	903	903	903	903	904	904	904	903	903	902	902	901	901	900	900	900	901	901	902	902	903		904		
MIN	894	894	894	894	894	895	895	895	895	895	895	894	894	893	893	892	892	892	892	893	893	894	894	895			892	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 897 mb

MAXIMUM PRESSURE WAS 904 mb ON 7/31 AT 800

MAXIMUM DAILY MEAN WAS 902 mb ON 7/31

MINIMUM PRESSURE WAS 892 mb ON 7/14 AT 1800

MINIMUM DAILY MEAN WAS 894 mb ON 7/27

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

PRESSURE in mb for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN	
01	902	902	902	902	902	902	903	903	903	902	902	901	900	900	899	898	898	898	898	898	899	899	899	899	900	903	898	
02	899	899	898	898	898	899	899	899	899	899	898	898	897	897	896	896	895	895	895	896	897	897	897	897	897	899	895	
03	897	897	897	897	898	899	899	899	899	899	899	898	897	896	896	895	895	895	895	896	896	896	896	897	897	899	894	
04	897	897	897	897	897	898	898	899	898	898	898	898	897	896	896	895	895	895	895	896	896	896	896	897	897	899	895	
05	897	897	897	897	897	897	898	898	898	898	898	897	896	896	895	895	894	894	895	895	895	896	897	897	896	898	894	
06	897	897	897	897	897	898	898	898	898	898	898	897	897	896	895	895	894	894	895	895	896	896	897	896	897	898	894	
07	896	896	897	897	897	897	898	898	898	898	897	897	896	896	895	894	893	893	894	894	894	894	895	895	896	898	893	
08	895	895	895	895	895	895	895	895	895	895	895	894	894	893	892	892	891	891	892	892	893	893	894	894	894	895	891	
09	894	894	894	894	894	895	895	896	896	896	895	895	894	894	893	893	892	892	893	893	894	894	894	895	894	896	892	
10	894	894	894	893	893	894	894	894	894	894	893	893	892	891	891	890	890	891	892	893	893	893	894	894	893	894	890	
11	894	893	893	894	894	894	895	895	895	896	895	895	894	893	893	894	894	894	895	895	895	896	896	897	895	897	893	
12	897	897	897	897	897	897	897	896	897	897	897	896	896	895	894	894	894	894	895	896	896	896	896	897	896	897	894	
13	897	897	897	897	897	898	898	899	899	900	900	900	899	898	898	898	898	899	899	899	900	900	901	901	899	901	897	
14	901	901	901	901	901	901	902	902	902	902	901	900	900	899	899	898	898	898	898	898	899	899	899	899	900	902	898	
15	899	898	898	898	898	898	898	898	899	898	898	897	897	896	895	895	895	895	895	895	896	896	897	897	897	899	895	
16	897	897	897	897	897	897	898	898	898	898	898	897	897	896	896	896	895	895	896	897	898	899	900	901	897	901	895	
17	901	901	901	901	901	902	902	903	903	903	902	902	901	901	900	899	899	899	899	900	900	901	901	901	901	901	903	899
18	901	900	900	901	900	901	901	901	901	901	900	900	899	898	897	897	896	896	896	896	897	897	897	897	899	901	896	
19	897	897	897	897	897	897	897	897	897	897	897	896	896	895	894	894	893	893	894	894	895	895	896	896	896	897	893	
20	896	896	896	896	896	896	897	897	897	897	897	896	896	895	895	894	894	894	895	896	897	898	898	898	896	898	894	
21	898	898	899	899	900	900	901	901	901	901	901	900	900	899	898	898	898	898	898	899	900	900	900	901	900	901	898	
22	901	901	901	901	901	901	902	902	902	901	901	900	900	899	898	898	897	897	898	898	899	899	899	899	900	902	897	
23	899	898	898	898	899	899	899	899	899	899	899	898	897	897	896	896	896	895	895	896	897	897	897	898	898	899	895	
24	898	898	898	898	898	898	899	899	899	899	899	899	898	897	896	896	896	896	896	897	898	898	898	898	898	899	896	
25	899	899	899	899	899	900	901	901	901	901	901	901	900	900	899	898	897	897	898	899	899	900	900	900	899	901	897	
26	900	900	900	900	900	900	901	902	902	902	901	901	900	899	898	898	898	898	899	899	900	900	900	900	900	902	898	
27	900	900	900	900	901	901	901	902	902	902	901	901	900	899	898	898	898	897	898	898	899	899	899	899	900	902	897	
28	899	899	899	899	899	899	899	899	899	899	899	898	897	897	896	896	895	895	895	896	896	896	896	896	897	899	895	
29	896	896	897	897	897	897	897	897	897	897	897	896	896	895	895	894	894	893	893	894	895	895	895	895	896	897	893	
30	895	895	895	894	895	895	895	896	896	896	895	895	894	893	893	892	892	892	894	895	895	895	895	895	894	896	892	
31	896	896	896	896	896	896	897	897	897	898	897	897	897	896	895	895	896	896	896	897	898	898	899	899	897	899	895	
MEAN	898	898	898	898	898	898	899	899	899	899	898	898	897	897	896	895	895	895	896	896	897	897	897	898	897			
MAX	902	902	902	902	902	902	903	903	903	903	903	902	901	901	900	899	899	899	899	900	900	901	901	901		903		
MIN	894	893	893	893	893	894	894	894	894	894	894	893	893	892	891	891	890	890	891	892	893	893	894	894			890	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 897 mb

MAXIMUM PRESSURE WAS 903 mb ON 8/17 AT 1000

MAXIMUM DAILY MEAN WAS 901 mb ON 8/17

MINIMUM PRESSURE WAS 890 mb ON 8/10 AT 1700

MINIMUM DAILY MEAN WAS 893 mb ON 8/10

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

PRESSURE in mb for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	899	899	899	899	899	900	900	900	900	900	900	899	899	898	897	897	896	896	897	897	898	898	898	898	899	900	896
02	898	898	898	898	898	898	899	899	898	898	898	897	896	896	895	895	894	894	894	895	896	896	896	896	897	899	894
03	896	896	895	895	896	896	896	896	896	896	896	896	895	895	894	893	893	894	894	895	896	897	897	898	895	898	893
04	898	898	898	899	900	900	901	901	902	903	903	903	903	903	902	902	902	902	902	903	903	904	904	904	902	904	898
05	904	903	904	904	904	905	905	905	905	905	905	904	903	902	902	901	901	901	901	902	902	902	902	902	903	905	901
06	902	902	902	902	902	903	903	903	903	903	903	902	902	901	900	900	900	900	901	901	901	901	901	901	902	903	900
07	902	901	902	902	902	902	903	903	903	904	904	903	903	903	902	902	902	902	903	904	905	906	906	906	903	906	901
08	906	906	906	906	907	907	908	908	908	908	907	906	905	904	903	903	902	902	902	902	903	903	903	903	905	908	902
09	902	902	902	902	903	903	904	904	904	904	903	902	902	901	901	900	900	900	900	901	901	901	901	901	902	904	900
10	901	901	901	901	902	902	903	903	903	904	904	903	903	902	901	901	901	901	901	902	902	903	903	903	902	904	901
11	903	903	903	903	903	904	904	905	905	905	905	904	904	903	902	901	901	901	901	902	902	903	903	903	903	903	901
12	903	902	902	902	903	903	904	904	904	904	903	903	902	901	900	900	900	900	901	902	902	902	902	902	902	904	900
13	902	901	901	901	900	901	901	901	901	901	901	900	900	899	898	897	897	897	897	898	898	898	898	898	899	902	897
14	898	898	898	897	898	899	899	899	899	900	899	900	899	899	898	898	898	898	898	899	899	900	900	899	899	900	897
15	900	901	901	902	902	902	902	902	902	903	903	902	902	902	901	901	900	900	901	902	902	902	901	901	902	903	900
16	903	902	901	900	900	901	901	902	901	902	901	901	900	899	899	898	898	898	898	898	899	899	899	899	900	903	898
17	899	899	899	899	899	899	899	900	900	900	900	899	898	897	897	897	896	897	898	898	898	898	898	899	898	900	896
18	899	899	900	900	900	900	901	902	902	902	902	902	901	901	900	900	900	900	901	901	901	902	902	902	901	902	899
19	902	903	903	903	903	904	904	905	905	905	905	904	903	902	901	901	900	900	901	901	901	901	901	901	902	905	900
20	900	900	900	900	900	900	900	900	900	900	899	899	898	897	896	896	896	896	896	896	896	896	897	897	898	900	896
21	898	897	897	898	899	899	900	900	901	901	901	901	900	899	899	898	898	898	899	899	899	899	900	900	899	901	897
22	900	900	900	900	902	903	903	904	905	906	906	905	905	904	903	903	903	903	903	904	905	905	905	905	903	906	900
23	905	905	904	904	904	905	905	905	905	905	904	904	903	902	901	901	901	901	901	901	901	902	901	901	903	905	901
24	901	900	900	900	899	900	900	900	900	899	899	898	897	896	895	895	894	894	895	895	895	895	895	894	894	897	894
25	894	894	893	893	894	894	894	894	895	895	895	895	894	893	893	892	892	893	893	893	894	894	895	895	894	895	892
26	894	894	894	894	894	894	895	895	896	896	896	895	894	894	893	893	893	893	894	894	895	895	896	895	895	896	893
27	896	896	896	896	897	897	898	898	899	899	899	898	898	897	896	896	896	896	897	898	898	899	899	899	897	899	896
28	899	899	898	898	899	899	899	899	899	899	899	899	898	897	896	896	897	897	897	897	897	898	898	898	898	899	896
29	898	898	898	898	898	899	899	899	900	900	899	898	898	897	896	898	898	898	899	900	902	904	904	905	905	900	898
30	906	906	906	906	907	907	907	907	908	908	907	907	906	905	904	904	903	903	903	904	904	905	904	904	906	908	903
MEAN	900	900	900	900	900	901	901	901	902	902	902	901	900	900	899	899	898	899	899	899	900	900	900	900	900	900	900
MAX	906	906	906	906	907	907	908	908	908	908	907	907	906	905	904	904	903	903	903	904	905	906	906	906		908	
MIN	894	894	893	893	894	894	894	894	895	895	895	895	894	893	893	892	892	893	893	893	894	894	894	894			892

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 719      DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN = 900 mb

MAXIMUM PRESSURE WAS 908 mb ON 9/ 8 AT 900

MAXIMUM DAILY MEAN WAS 906 mb ON 9/30

MINIMUM PRESSURE WAS 892 mb ON 9/25 AT 1600

MINIMUM DAILY MEAN WAS 894 mb ON 9/25

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix G**  
**Hourly Precipitation Data for July through September 2011**

National Enrichment Facility

PRECIPITATION in inches for JULY, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX	HR
01																									.00	.00	
02																										.00	.00
03																										.00	.00
04																										.00	.00
05																										.00	.00
06																										.00	.00
07																										.00	.00
08																										.00	.00
09																										.00	.00
10																										.00	.00
11																										.00	.00
12																										.00	.00
13																					.02					.02	.02
14																										.00	.00
15																										.00	.00
16																										.00	.00
17																										.00	.00
18																										.00	.00
19																										.00	.00
20																										.00	.00
21																										.00	.00
22																					.15	.02				.17	.15
23																										.00	.00
24																										.00	.00
25																										.00	.00
26																										.00	.00
27																										.00	.00
28																										.00	.00
29																.12										.12	.12
30																										.00	.00
31																										.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = .31 inches

MAXIMUM DAILY PRECIPITATION WAS .17 inches on 7/22

MAXIMUM HOURLY PRECIPITATION WAS .15 inches on 7/22 at 2000

MISSING DATA IS INDICATED BY ---  
BLANKS INDICATE ZERO PRECIPITATION

National Enrichment Facility

PRECIPITATION in inches for AUGUST, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX	HR
01																									.00	.00	
02																										.00	.00
03																										.00	.00
04																										.00	.00
05																										.00	.00
06																										.00	.00
07																										.00	.00
08																										.00	.00
09																										.00	.00
10																										.00	.00
11																										.00	.00
12																										.00	.00
13																										.00	.00
14																										.00	.00
15																										.00	.00
16																										.00	.00
17																										.00	.00
18																										.00	.00
19																										.00	.00
20																										.00	.00
21																										.00	.00
22																										.00	.00
23																										.00	.00
24																										.00	.00
25																										.00	.00
26																										.00	.00
27																										.00	.00
28																										.00	.00
29																										.00	.00
30																										.00	.00
31																										.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = .00 inches

MISSING DATA IS INDICATED BY ---  
BLANKS INDICATE ZERO PRECIPITATION

National Enrichment Facility

PRESSURE in mb for SEPTEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	899	899	899	899	899	900	900	900	900	900	900	899	899	898	897	897	896	896	897	897	898	898	898	898	899	900	896
02	898	898	898	898	898	898	899	899	898	898	898	897	896	896	895	895	894	894	894	895	896	896	896	896	897	899	894
03	896	896	895	895	896	896	896	896	896	896	896	896	895	895	894	893	893	894	894	895	896	897	897	898	895	898	893
04	898	898	898	899	900	900	901	901	902	903	903	903	903	903	902	902	902	902	902	903	903	904	904	904	902	904	898
05	904	903	904	904	904	905	905	905	905	905	905	904	903	902	902	901	901	901	901	902	902	902	902	902	903	905	901
06	902	902	902	902	902	903	903	903	903	903	903	902	902	901	900	900	900	900	900	901	901	901	901	901	902	903	900
07	902	901	902	902	902	902	903	903	903	904	904	903	903	903	902	902	902	902	903	904	905	906	906	906	903	906	901
08	906	906	906	906	907	907	908	908	908	908	907	906	905	904	903	903	902	902	902	902	903	903	903	903	905	908	902
09	902	902	902	902	903	903	904	904	904	904	903	902	902	901	901	900	900	900	900	901	901	901	901	901	902	904	900
10	901	901	901	901	902	902	903	903	903	904	904	903	903	902	901	901	901	901	901	902	902	903	903	903	902	904	901
11	903	903	903	903	903	904	904	905	905	905	905	904	904	903	902	901	901	901	902	902	903	903	903	903	903	905	901
12	903	902	902	902	903	903	904	904	904	904	903	903	902	901	900	900	900	900	901	902	902	902	902	902	902	904	900
13	902	901	901	900	900	901	901	901	901	901	901	900	900	899	898	897	897	897	897	898	898	898	898	899	902	897	897
14	898	898	898	897	898	899	899	899	899	900	899	900	899	899	898	898	898	898	898	899	899	900	900	899	899	900	897
15	900	901	901	902	902	902	902	902	902	903	903	902	902	902	901	901	900	900	900	901	902	902	901	901	902	903	900
16	903	902	901	900	900	901	901	902	901	902	901	901	900	899	899	898	898	898	898	898	899	899	899	899	900	903	898
17	899	899	899	899	899	899	899	900	900	900	900	899	898	897	897	897	897	896	897	898	898	898	898	899	898	900	896
18	899	899	900	900	900	900	901	902	902	902	902	902	901	901	900	900	900	901	901	901	902	902	902	902	901	902	899
19	902	903	903	903	903	904	904	905	905	905	905	904	903	902	901	901	900	900	901	901	901	901	901	900	902	905	900
20	900	900	900	900	900	900	900	900	900	900	899	899	898	897	896	896	896	896	896	896	897	897	898	898	898	900	896
21	898	897	897	898	899	899	900	900	901	901	901	901	900	899	899	898	898	898	899	899	899	899	900	900	899	901	897
22	900	900	900	900	902	903	903	904	905	906	906	905	905	904	903	903	903	903	903	904	905	905	905	905	903	906	900
23	905	905	904	904	904	905	905	905	905	905	904	904	903	902	901	901	901	901	901	901	901	902	901	901	903	905	901
24	901	900	900	900	899	900	900	900	900	899	899	898	897	896	895	895	894	894	895	895	895	895	895	894	894	897	894
25	894	894	893	893	894	894	894	894	895	895	895	895	894	893	893	892	892	893	893	893	894	894	895	895	894	895	892
26	894	894	894	894	894	894	895	895	896	896	896	895	894	894	893	893	893	894	894	895	895	895	896	895	895	896	893
27	896	896	896	896	897	897	898	898	899	899	899	898	898	897	896	896	896	896	897	898	898	899	899	899	897	899	896
28	899	899	898	898	899	899	899	899	899	899	899	899	898	897	896	896	897	897	897	897	897	898	898	898	898	899	896
29	898	898	898	898	898	899	899	899	900	900	900	899	898	898	898	898	898	899	900	902	904	904	905	905	900	905	898
30	906	906	906	906	907	907	907	908	908	908	907	907	906	905	904	904	903	903	903	904	904	905	904	904	906	908	903
MEAN	900	900	900	900	900	901	901	901	902	902	902	901	900	900	899	899	898	899	899	899	900	900	900	900	900		
MAX	906	906	906	906	907	907	908	908	908	908	907	907	906	905	904	904	903	903	903	904	905	906	906	906		908	
MIN	894	894	893	893	894	894	894	894	895	895	895	895	894	893	893	892	892	893	893	893	894	894	894	894			892

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 719      DATA RECOVERY RATE = 99.9 %

MONTHLY MEAN = 900 mb

MAXIMUM PRESSURE WAS 908 mb ON 9/ 8 AT 900

MAXIMUM DAILY MEAN WAS 906 mb ON 9/30

MINIMUM PRESSURE WAS 892 mb ON 9/25 AT 1600

MINIMUM DAILY MEAN WAS 894 mb ON 9/25

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS



**Appendix H**  
**Meteorological Equipment Calibration Sheets**

# BAROMETRIC PRESSURE CALIBRATION SHEET



Operator LES  
 Site Name NEF  
 Project 10-146

Date 09/29/11 Start Time 7:40  
 Stn ID Eunice Stop Time 13:06  
 Client LES

Sensor Mfg Vaisala  
 Sensor Model PTB110  
 Serial No. D2220013  
 Range 600-1100 hpa

Sensor Height 1.5 m

Last Calibration Date 3/29/11

CALIBRATION INPUT		PRIMARY DAS RESPONSE			BACKUP DAS RESPONSE		
(Time)	(mb)	DAS (v)	DAS (mb)	DIFF (mb)	DAS (v)	DAS (mb)	DIFF (mb)
7:40	899.40		899.33	-0.07			
8:57	899.80		899.47	-0.33			
9:43	899.80		899.47	-0.33			
10:29	899.80		899.54	-0.26			
11:31	899.60		899.08	-0.52			
13:06	898.2		897.95	-0.25			

Calibration Criteria: ± 3 mb

Pressure Calibration Device Vaisala  
 Calibration Device Model PTB 110  
 Calibration Device SER # G0770046  
 Calibrated By Mike Peterson

Comments Side by side comparison in ambient conditions.

# HORIZONTAL WIND DIRECTION CALIBRATION SHEET



Operator LES  
 Site Name NEF  
 Project 10-146

Date 9/29/2011 Start Time 9:00  
 Stn ID Eunice Stop Time 14:28  
 Client LES

Sensor Mfg Climatronics  
 Serial No. 4982  
 Crossarm Alignment 90.0  
 Crossarm Difference 0.0  
 Site Declination (degrees) 7.5 degrees  
 Last Calibration Date 3/29/11

WD Sensor Model 100076  
 WD Sensor Ht (m) 10  
 WD Sensor Range 0- 360  
 Vane parallel to crossarm= 271.0 / 89.0 post 270.0 / 90.0  
 WD Shaft Rotational Torque 4.0 gm-cm cw & ccw  
 Starting Threshold <0.45 m/s

CALIBRATION		CLOCKWISE DAS RESPONSE			COUNTERCLOCKWISE DAS RESPONSE		
(deg)	(deg)	DAS (deg)	DIFF (deg)	TOTAL DIFF (deg)	DAS (deg)	DIFF (deg)	TOTAL DIFF (deg)
	0/360	359.0	-0.3	-0.3	1.6	-0.4	-0.4
	30	30.0	0	0.0	30.7	0.7	0.7
	60	59.1	-0.9	-0.9	60.3	0.3	0.3
	90	89.8	-0.2	-0.2	90.3	0.3	0.3
	120	119.5	-0.5	-0.5	119.5	-0.5	-0.5
	150	149.7	-0.3	-0.3	150.8	0.8	0.8
	180	180.2	0.2	0.2	180.6	0.6	0.6
	210	211.0	1.0	1.0	210.2	0.2	0.2
	240	239.8	-0.2	-0.2	239.9	-0.1	-0.1
	270	270.5	0.5	0.5	270.1	0.1	0.1
	300	301.0	1.0	1.0	299.1	-0.9	-0.9
	330	329.2	-0.8	-0.8	331.2	1.2	1.2

Calibration Orientation plus Linearity:  $\pm 5$  degrees  
 Criteria: Starting Threshold:  $\leq .45$  m/s  
 TOTAL DIFF is the Total Difference of Alignment plus Linearity

WD Calibration Device Met One Dir. Template  
 WD Calibration Model 040  
 WD Calibration Serial # DIR 06

Comments Brunton transit s/n 5081005174  
RM Young torque disc model 18312

Cal By Mike Peterson

# HORIZONTAL WIND DIRECTION CALIBRATION SHEET

As Found



Operator LES  
 Site Name NEF  
 Project 10-146

Date 9/29/2011 Start Time 9:00  
 Stn ID Eunice Stop Time 14:28  
 Client LES

Sensor Mfg Climatronics  
 Serial No. 4981  
 Crossarm Alignment 89.5  
 Crossarm Difference -0.5  
 Site Declination (degrees) 7.5 degrees  
 Last Calibration Date 3/29/11

WD Sensor Model 100076  
 WD Sensor Ht (m) 40  
 WD Sensor Range 0- 360  
 Vane parallel to crossarm= 270.0 / 89.7  
 WD Shaft Rotational Torque < 6.0 gm-cm cw & ccw  
 Starting Threshold <0.45 m/s

CALIBRATION		CLOCKWISE DAS RESPONSE			COUNTERCLOCKWISE DAS RESPONSE		
(deg)	(deg)	DAS (deg)	DIFF (deg)	TOTAL DIFF (deg)	DAS (deg)	DIFF (deg)	TOTAL DIFF (deg)
	0/360	0.2	0.2	-0.3	0.2	0.2	-0.3
	30	29.7	-0.3	-0.8	28.9	-1.1	-1.6
	60	58.9	-1.1	-1.6	58.2	-1.8	-2.3
	90	89.1	-0.9	-1.4	88.2	-1.8	-2.3
	120	118.3	-1.7	-2.2	118.2	-1.8	-2.3
	150	149.1	-0.9	-1.4	148.4	-1.6	-2.1
	180	180.4	0.4	-0.1	178.9	-1.1	-1.6
	210	209.6	-0.4	-0.9	208.2	-1.8	-2.3
	240	239.2	-0.8	-1.3	240.2	0.2	-0.3
	270	269.5	-0.5	-1.0	271.2	1.2	0.7
	300	301.6	1.6	1.1	300.1	0.1	-0.4
	330	331.7	1.7	1.2	332.1	2.1	1.6

Calibration Orientation plus Linearity:  $\pm 5$  degrees  
 Criteria: Starting Threshold:  $\leq .45$  m/s  
 TOTAL DIFF is the Total Difference of Alignment plus Linearity

WD Calibration Device Met One Dir. Template  
 WD Calibration Model 040  
 WD Calibration Serial # DIR 06

Comments Brunton transit s/n 5081005174  
RM Young torque disc model 18312  
Torque getting high will replace sensor with spare.

Cal By Mike Peterson

# HORIZONTAL WIND DIRECTION CALIBRATION SHEET

Replacement sensor



Operator LES  
 Site Name NEF  
 Project 10-146

Date 9/29/2011 Start Time 9:00  
 Stn ID Eunice Stop Time 14:28  
 Client LES

Sensor Mfg Climatronics  
 Serial No. 4984  
 Crossarm Alignment 89.5  
 Crossarm Difference -0.5  
 Site Declination (degrees) 7.5 degrees  
 Last Calibration Date 3/29/11

WD Sensor Model 100076  
 WD Sensor Ht (m) 40  
 WD Sensor Range 0- 360  
 Vane parallel to crossarm= 89.7 / 270.1  
 WD Shaft Rotational Torque < 3.0 gm-cm cw & ccw  
 Starting Threshold <0.45 m/s

CALIBRATION		CLOCKWISE DAS RESPONSE			COUNTERCLOCKWISE DAS RESPONSE		
(deg)	(deg)	DAS (deg)	DIFF (deg)	TOTAL DIFF (deg)	DAS (deg)	DIFF (deg)	TOTAL DIFF (deg)
	0/360	0.17	0.17	-0.3	0.17	0.17	-0.33
	30	29.3	-0.7	-1.2	29.9	-0.1	-0.6
	60	59.0	-1	-1.5	59.9	-0.1	-0.6
	90	89.1	-0.9	-1.4	89.1	-0.9	-1.4
	120	119.1	-0.9	-1.4	120.3	0.3	-0.2
	150	150.5	0.5	0.0	150.8	0.8	0.3
	180	179.1	-0.9	-1.4	180.7	0.7	0.2
	210	210.0	0	-0.5	210.8	0.8	0.3
	240	240.7	0.7	0.2	240.6	0.6	0.1
	270	270.0	0	-0.5	271.0	1.0	0.5
	300	300.9	0.9	0.4	301.2	1.2	0.7
	330	330.4	0.4	-0.1	331.0	1.0	0.5

Calibration Orientation plus Linearity:  $\pm 5$  degrees  
 Criteria: Starting Threshold:  $\leq .45$  m/s  
 TOTAL DIFF is the Total Difference of Alignment plus Linearity

WD Calibration Device Met One Dir. Template  
 WD Calibration Model 040  
 WD Calibration Serial # DIR 06

Comments Brunton transit s/n 5081005174  
RM Young torque disc model 18312  
Replacement sensor installed.

Cal By Mike Peterson

# HORIZONTAL WIND SPEED CALIBRATION SHEET



Operator LES  
Site Name NEF  
Project 10-146

Date 9/29/2011 Start Time 9:00  
Stn ID Eunice Stop Time 14:18  
Client LES

Sensor Mfg Climatronics  
Serial No. 5333  
Last Calibration Date 3/29/11

WS Sensor Model 100075  
WS Sensor Ht (m) 10  
WS Range 0 - 0 - 56 m/s

WS Shaft Rotational Torque <0.2 gm-cm cw & ccw Sensor Starting Threshold <0.45 m/s

CALIBRATION		PRIMARY DAS RESPONSE			BACKUP DAS RESPONSE		
(rpm)	(mps)	DAS (v)	DAS (mps)	DIFF (mps)	DAS (v)	DAS (mps)	DIFF (mps)
0	0		0.00	0.00			
300	7.18		7.18	0.00			
600	14.23		14.23	0.00			
900	21.28		21.28	0.00			
1200	28.33		28.33	0.00			
1500	35.37		35.38	0.01			
1800	42.42		42.43	0.01			

Calibration Criteria:  $\pm 0.2$  m/s  
Starting threshold  $<0.45$  m/s

WS Calibration Device RM Young anemometer dr. Comments RM Young torque disc model 18312  
WS Calibration Model 18802  
WS Calibration SER # CA03365

Cal By Mike Peterson

# HORIZONTAL WIND SPEED CALIBRATION SHEET



Operator LES  
 Site Name NEF  
 Project 10-146

Date 9/29/2011 Start Time 9:00  
 Strn ID Eunice Stop Time 14:28  
 Client LES

Sensor Mfg Climatronics  
 Serial No. 5332  
 Last Calibration Date 3/29/11

WS Sensor Model 100075  
 WS Sensor Ht (m) 40  
 WS Range 0 - 0 - 56 m/s

WS Shaft Rotational Torque <0.2 gm-cm cw & ccw

Sensor Starting Threshold <0.45 m/s

CALIBRATION		PRIMARY DAS RESPONSE			BACKUP DAS RESPONSE		
(rpm)	(mps)	DAS (v)	DAS (mps)	DIFF (mps)	DAS (v)	DAS (mps)	DIFF (mps)
0	0		0.00	0.00			
300	7.18		7.18	0.00			
600	14.23		14.23	0.00			
900	21.28		21.28	0.00			
1200	28.33		28.33	0.00			
1500	35.37		35.38	0.01			
1800	42.42		42.43	0.01			

Calibration Criteria:  $\pm 0.2$  m/s  
 Starting threshold <0.45 m/s

WS Calibration Device RM Young anemometer dr.  
 WS Calibration Model 18802  
 WS Calibration SER # CA03365

Comments RM Young torque disc model 18312  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Cal By Mike Peterson

# PRECIPITATION GAUGE CALIBRATION SHEET



Operator LES  
 Site Name NEF  
 Project 10-146

Date 9/29/2011 Start Time 8:50  
 Stn ID Eunice Stop Time 10:30  
 Client LES

Sensor Mfg Met One  
 Serial No. H6651  
 Recording Resolution 1 Tip = 0.01"

Sensor Model 385  
 Sensor Ht 35"  
 Gauge Range 0 - Unlimited

Last Calibration Date 3/29/11

Funnel size (in) 30.5

CALIBRATION INPUT (in.)	PRIMARY DAS RESPONSE			BACKUP DAS RESPONSE		
	DAS (v)	DAS (in.)	% DIFF	DAS (v)	DAS (in.)	% DIFF
10 Tips = 179.0 ml						
10 Tips = 178.0 ml						
10 Tips = 179.0 ml						
10 Tip average = 178.7 ml						
178.7 ml = 0.0963 in.		0.1	3.8%			

Calibration Criteria: ± 10% of input

Gauge Calibration Device Poly Lab  
 Gauge Calibration Model 100 ml Buret  
 Gauge Calibration SER # MSI2

Comments 30 tips total. .28 in DAS due to program change.  
Real precip after 10:30  
 1cc = 1 ml, D=funnel size, r= 1/2D, (A)rea of funnel=Br<sup>2</sup>  
 Ave. audit input (cc)/area of funnel (cm<sup>2</sup>)/cm to (unit)  
 conversion = (units) per 1 tip.

Calibration By Mike Peterson



# RELATIVE HUMIDITY CALIBRATION SHEET



Operator LES  
 Site Name NEF  
 Project 10-146

Date 9/29/2011 9:00  
 Stn ID Eunice Stop Time 14:28  
 Client LES

Sensor Mfg Vaisala  
 Sensor Model HMP45AC  
 Serial No. D2020110  
 Range 0-100%

Sensor Height: 10 m

Last Calibration Date 3/29/11

CALIBRATION INPUT		PRIMARY DAS RESPONSE			BACKUP DAS RESPONSE		
(Time)	(%)	DAS (v)	DAS (%)	DIFF (% RH)	DAS (v)	DAS (%)	DIFF (% RH)
9:45	19.5		17.5	-2.0			
10:26	17.6		17.1	-0.5			
10:57	16.0		15	-1.0			
11:30	14.0		13.2	-0.8			
12:07	13.9		14.2	0.3			
13:06	13.0		12.5	-0.5			
Calibration Criteria:		± 4 %RH					

Rel. Humidity Calibration Device Vaisala  
 Rel. Humidity Calibration Model HMP45AC  
 Rel. Humidity Calibration SER # W1630084

Comments Side by side comparison in ambient conditions.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Calibration By Mike Peterson

# SOLAR RADIATION CALIBRATION SHEET



As Found

Operator LES  
 Site Name NEF  
 Project 10-146

Date 9/29/2011 Start Time 7:30  
 Stn ID Eunice Stop Time 10:00  
 Client LES

Sensor Mfg Kipp N Zonan  
 Serial No. 080360  
 Range N/A

Sensor Model CMP3  
 Sensor Height 2 m

Last Calibration Date 3/29/11

CALIBRATION INPUT		DAS RESPONSE (watts/m^2)			DAS RESPONSE (watts/m^2)	
Time	(watts/m^2)	(volts)	(watts/m^2)	(% diff)	(watts/m^2)	(diff)
7:37	346.0		363.0	4.9		
9:43	712.0		753.0	5.7		

Calibration Criteria: ± 5%

Solar Radiation Calibration Device Kipp N Zonan  
 Solar Radiation Calibration Model CM3  
 Solar Radiation Calibration SER # 58476

Comments Site sensor 15 min averages  
as found were 4.5% higher  
than the reference sensor.  
The site sensor will be adjusted  
to improve performance.

Calibrated By Mike Peterson

# SOLAR RADIATION CALIBRATION SHEET

After Adjustment



Operator LES Date 9/29/2011 Start Time 10:00  
 Site Name NEF Stn ID Eunice Stop Time 15:20  
 Project 10-146 Client LES

Sensor Mfg Kipp N Zonan Sensor Model CMP3  
 Serial No. 080360 Sensor Height 2 m  
 Range N/A

Last Calibration Date 3/29/11

CALIBRATION INPUT		DAS RESPONSE (watts/m <sup>2</sup> )			DAS RESPONSE (watts/m <sup>2</sup> )	
Time	(watts/m <sup>2</sup> )	(volts)	(watts/m <sup>2</sup> )	(% diff)	(watts/m <sup>2</sup> )	(diff)
9:59	740.0		748.0	1.1%		
10:25	787.0		796.0	1.1%		
10:55	809.0		819.0	1.2%		
11:30	872.0		884.0	1.4%		
11:54	274.0		276.0	0.7%		
13:05	949.0		954.0	0.5%		
14:57	217.0		213.0	-1.8%		
15:19	354.0		346.0	-2.3%		

Calibration Criteria:  $\pm 5\%$

Solar Radiation Calibration Device Kipp N Zonan  
 Solar Radiation Calibration Model CM3  
 Solar Radiation Calibration SER # 58476

Comments Calibration sensor also  
logged on separate datalogger  
and compared to site 15 min  
averages. Site Sensor was  
adjusted to improve performance.

Calibrated By Mike Peterson

**MULTI-PROBE  
TEMPERATURE  
CALIBRATION SHEET**



Operator LES Date 9/29/2011 Start Time 9:00  
 Site Name NEF Stn ID Eunice Stop Time 14:28  
 Project 10-146 Client LES

Sensor Mfg RM Young Sensor Model 43132  
 Range(s) - 50 to + 50 C Sensor Ht (m) 10 Serial # 14111  
 Sensor Ht (m) 40 Serial # 14114  
 Sensor Ht (m) \_\_\_\_\_ Serial # \_\_\_\_\_

Last Calibration Date 3/29/11

CALIBRATION INPUT		10 METER DAS RESPONSE		40 METER DAS RESPONSE		10 - 40 Meter ΔT (°C)
Time	(°C)	10 M (°C)	DIFF (°C)	40 M (°C)	DIFF (°C)	
10:15	36.25	36.320	0.070	36.310	0.060	-0.008
10:45	1.45	1.702	0.252	1.689	0.239	-0.013
11:15	23.45	23.590	0.140	23.600	0.150	0.010

Calibration Criteria: ± 0.5 ° C from audit input, and ± 0.1 ° C for ΔT

Temperature Calibration Device Brooklyn digital Comments Aluminum blocks used for temperature medium.  
 Temperature Calibration Model 6661 10m and 40m values are from 15 min DAS averages.  
 Temperature Calibration SER # C404690 Calibration sensor value was also averaged for each point.

Calibration By Mike Peterson

**SUMMARY OF  
METEOROLOGICAL DATA AT THE  
NATIONAL ENRICHMENT FACILITY  
MONITORING STATION  
OCTOBER - DECEMBER 2011**

Prepared for:

Louisiana Energy Services, LLC  
275 Andrews Highway  
P. O. Box 1789  
Eunice, New Mexico 88231

By

Meteorological Solutions Inc.  
Project No. 011210145

January 2012



**SUMMARY OF METEOROLOGICAL DATA AT THE  
NATIONAL ENRICHMENT FACILITY MONITORING STATION**

**OCTOBER - DECEMBER 2011**

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**SUMMARY OF METEOROLOGICAL DATA AT THE  
NATIONAL ENRICHMENT FACILITY MONITORING STATION  
OCTOBER - DECEMBER 2011**

**1.0 INTRODUCTION**

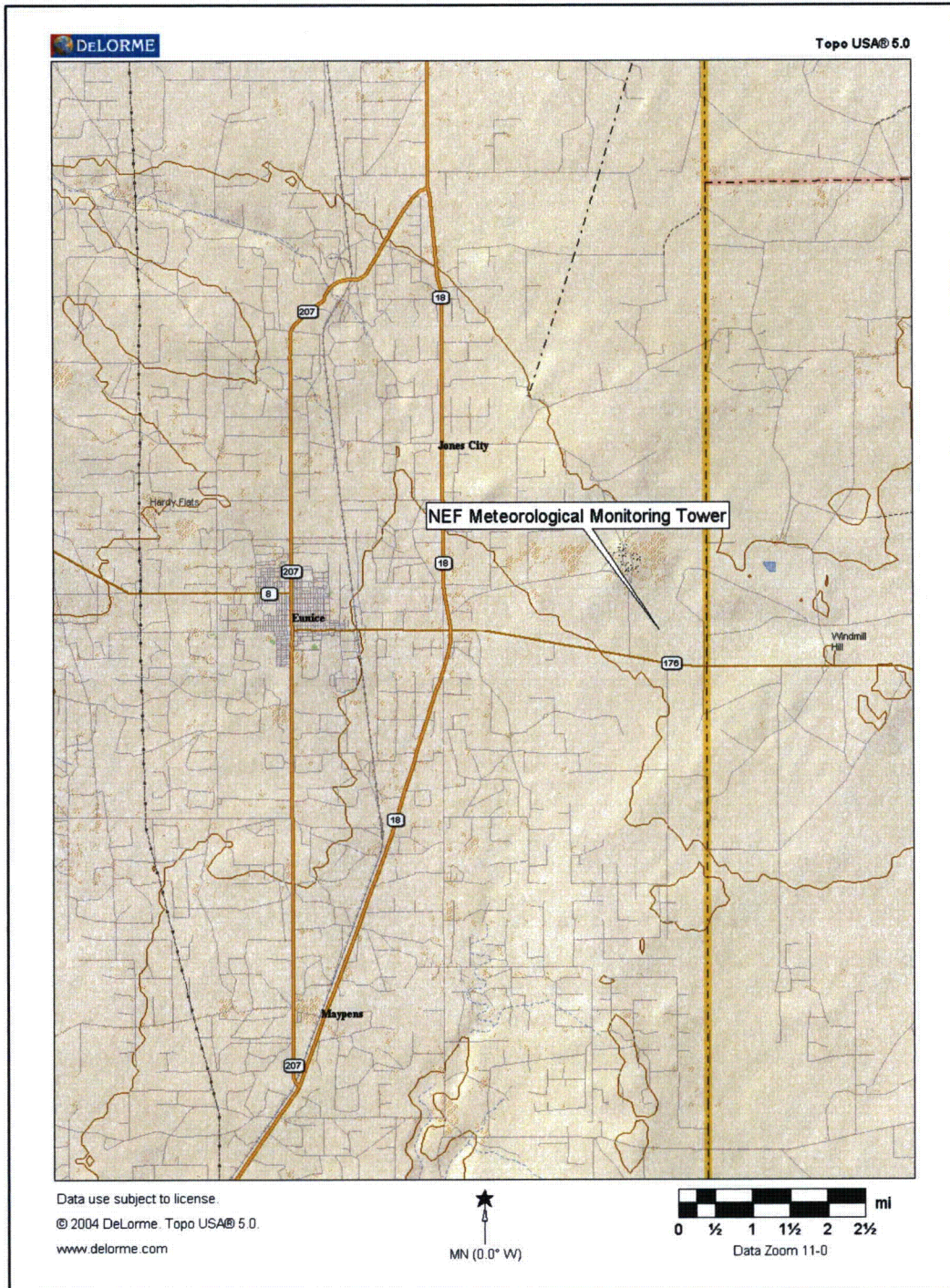
This data report, prepared for Louisiana Energy Services, Inc (LES) by Meteorological Solutions Inc. (MSI), summarizes the meteorological data collected from October 1 through December 31, 2011 at a monitoring station located at the National Enrichment Facility (NEF) in Lea County, New Mexico.

**1.1 Background**

On June 25, 2009, meteorological equipment was installed on a 40-meter tower at the NEF monitoring location. Measurements collected on the solar-powered tower consist of horizontal wind speed and wind direction at 10 and 40 meters, temperature at 10 and 40 meters, relative humidity at 10 meters, solar radiation at 2 meters, precipitation and barometric pressure at 1 meter. Official meteorological monitoring began on September 8, 2009 at 13:00.

**1.2 Monitoring Station Description**

The meteorological monitoring site is located on the north side of the complex. Figure 1.1 presents the approximate location of the NEF meteorological monitoring station in relation to Eunice, New Mexico.



**Figure 1.1 Location of NEF Meteorological Monitoring Station**

The meteorological equipment operating at the station is listed in Table 1-1.

**Table 1-1**  
**NEF Meteorological Monitoring Equipment**

<b>Parameter</b>	<b>Sensor/Monitor Model</b>	<b>Serial Number</b>
Wind Direction	Climatronics Model 100076	4982 - 10M
	Climatronics Model 100076	4984 - 40M <sup>1</sup>
Wind Speed	Climatronics Model 100075	5333 - 10M
	Climatronics Model 100075	5332 - 40M
Temperature	RM Young Model 43132	14111 - 10M
	RM Young Model 43132	14114 - 40M
Relative Humidity	Vaisala Model HMP45AC	D2020110
Solar Radiation	Kipp & Zonen Model CMP3	80360
Barometric Pressure	Vaisala Model PTB110	D2220013
Precipitation	Met One Model 385	H6651

<sup>1</sup> Sensor installed on September 29, 2011.

### **1.3 Data Acquisition**

Data from the instruments listed in Table 1-1 are collected and stored by a Campbell Scientific Inc. Model CR3000 data logger. Measurements are made every second and averages are computed by the data logger and recorded every 15 minutes.

The NEF data logger is interrogated every day by MSI via Internet and the data are copied to a MSI computer. The data logger telecommunications software performs dynamic error checking during download to ensure that an exact duplicate file is created. Any failures in instrumentation or data acquisition are identified within one day of occurrence so that field personnel are able to correct problems in a timely manner in order to prevent excessive data loss.

The data collected during each interrogation were checked for consistency and the parameters were plotted for visual inspection. The quality assurance stacked parameter/time plots for the months of October through December are presented in Appendix A. Data presented in Appendix A represent the final, quality assured data set. Hourly values provided in this report are the arithmetic hourly averages of the recorded fifteen-minute averages from the data logger. If fewer than 45 minutes are available, the hour is considered "missing".

## 2.0 DATA SUMMARY

This section of the report summarizes the data results and data recovery for October through December 2011. Hourly data for the period are tabulated in the appendices. These appendix tables display the hourly average of measurements recorded in the hour "ending"; that is, the first hour of the day is labeled 01, meaning the hour beginning at 00:00:01 and ending at 01:00:00 a.m. The second hour is labeled 02, meaning the values collected from 01:00:01 a.m. to 02:00:00 a.m.

### 2.1 Meteorological Data

Meteorological data records from the NEF monitoring site include wind direction and horizontal wind speed at 10 and 40 meters, temperature at 10 and 40 meters, vertical temperature difference between 10 and 40 meters, relative humidity at 10 meters, solar radiation at 2 meters, barometric pressure at 1.5 meters, and precipitation at 1 meter.

#### 2.1.1 Wind Speed and Horizontal Wind Direction

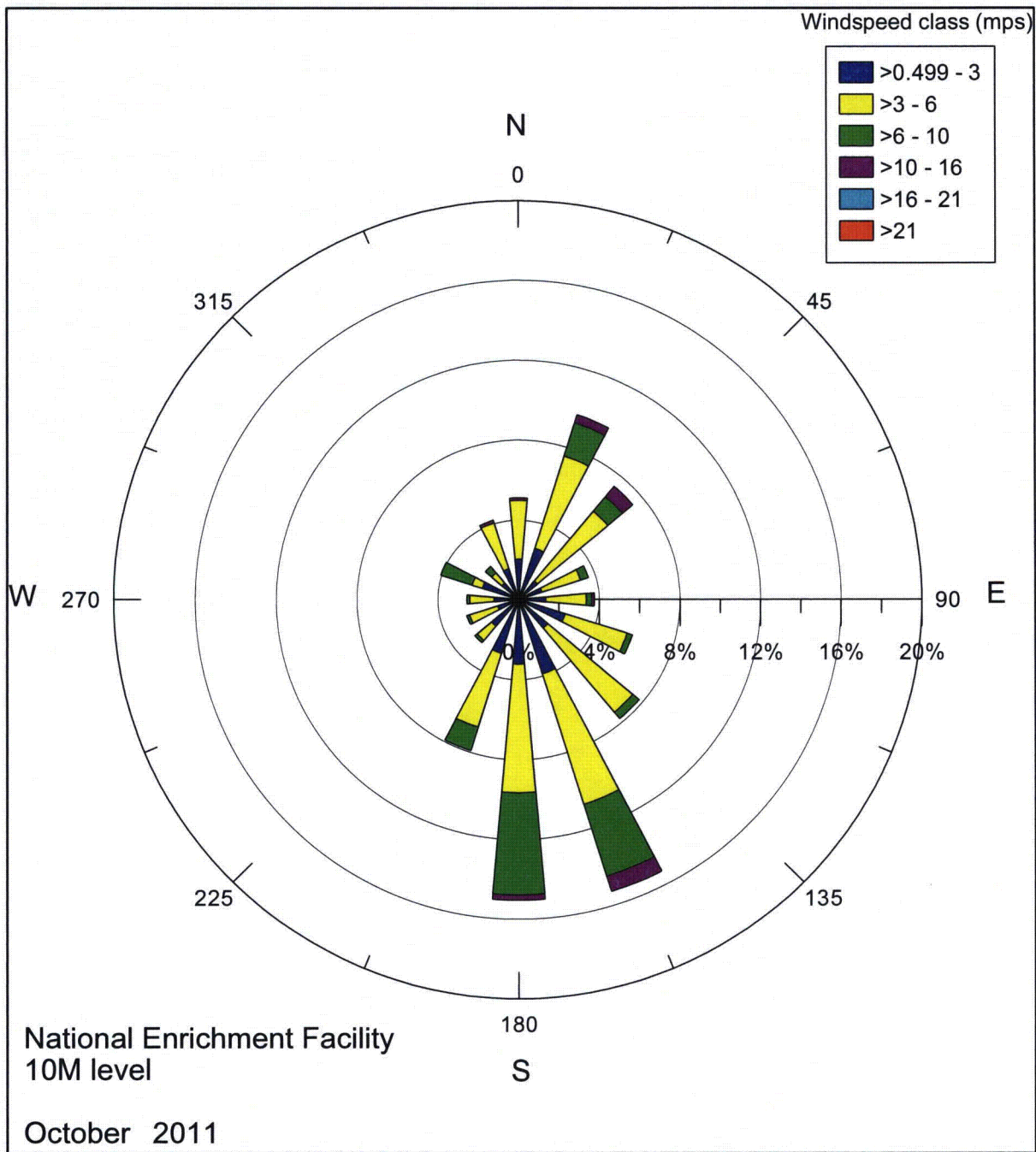
Figures 2.1 through 2.3 provide diagrams of the joint frequency of occurrence distributions (wind rose) of wind speed and wind direction by month for the fourth calendar year quarter (October through December 2011) for the 10-meter level. Figure 2.4 presents the fourth quarter 10-meter level wind rose. Figures 2.5 through 2.7 provide wind roses by month for October through December for the 40-meter level. Figure 2.8 presents the fourth quarter 40-meter level wind rose. Summary tables of hourly average wind direction and wind speed for the 10- and 40-meter levels for the fourth quarter are presented in Appendix B.

The most frequent (and predominant) winds in October through December 2011 at the 10- and 40-meter levels were from the south followed by the south-southeast. Reported wind directions represent the directions from which the wind is blowing.

For October through December, at the 10-meter level, 0.1 percent of the wind speeds were calm. At the 40-meter level, 0.2 percent of the wind speeds were calm.

For October through December, the percentage of wind speeds that were less than or equal to 10 mps (22 mph) was 97.7 percent at the 10-meter level and 93.4 percent at the 40-meter level. At the 10-meter level, 0.0 percent of the winds were greater than 16 mps (35 mph). At the 40-meter level, 0.1 percent of the winds were greater than 16 mps.

For October through December at the 10- and 40-meter levels, the sectors with the highest average wind speed were the northeast followed by the north-northeast.



**Figure 2.1 10-Meter Level Wind Rose, October 2011.**

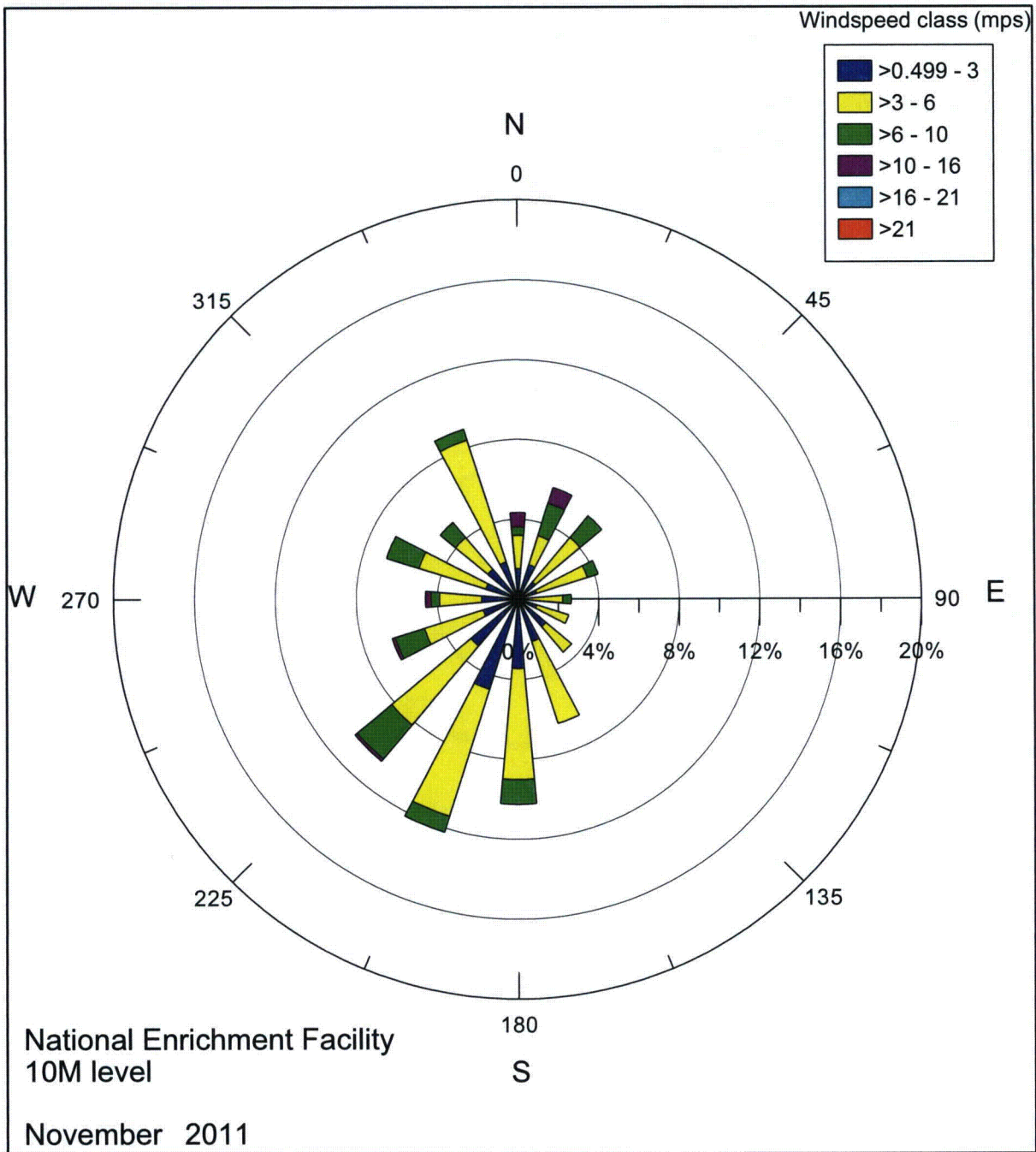


Figure 2.2 10-Meter Level Wind Rose, November 2011.



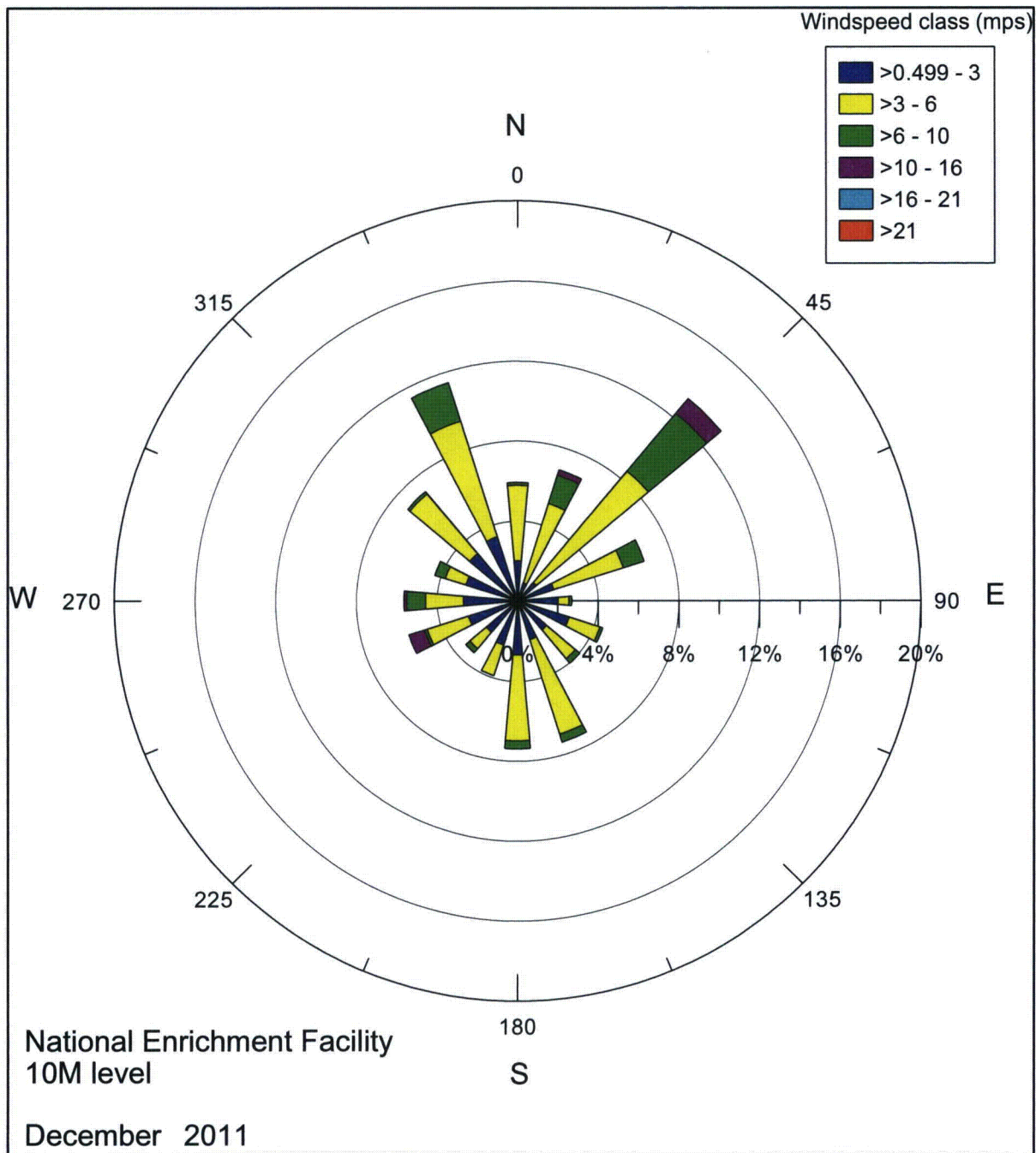


Figure 2.3 10-Meter Level Wind Rose, December 2011.

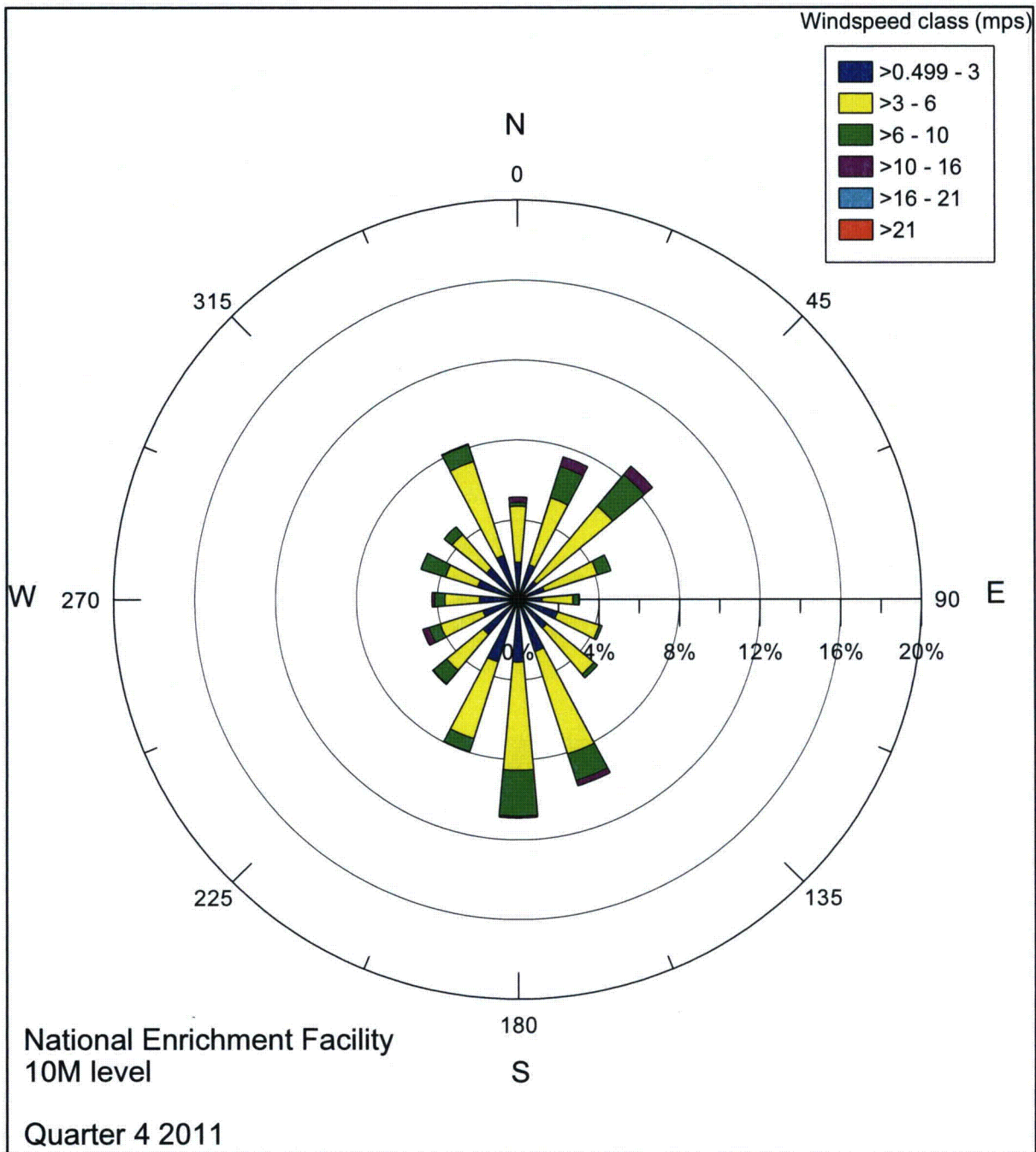


Figure 2.4 10-Meter Level Wind Rose, Fourth Quarter (October through December) 2011.

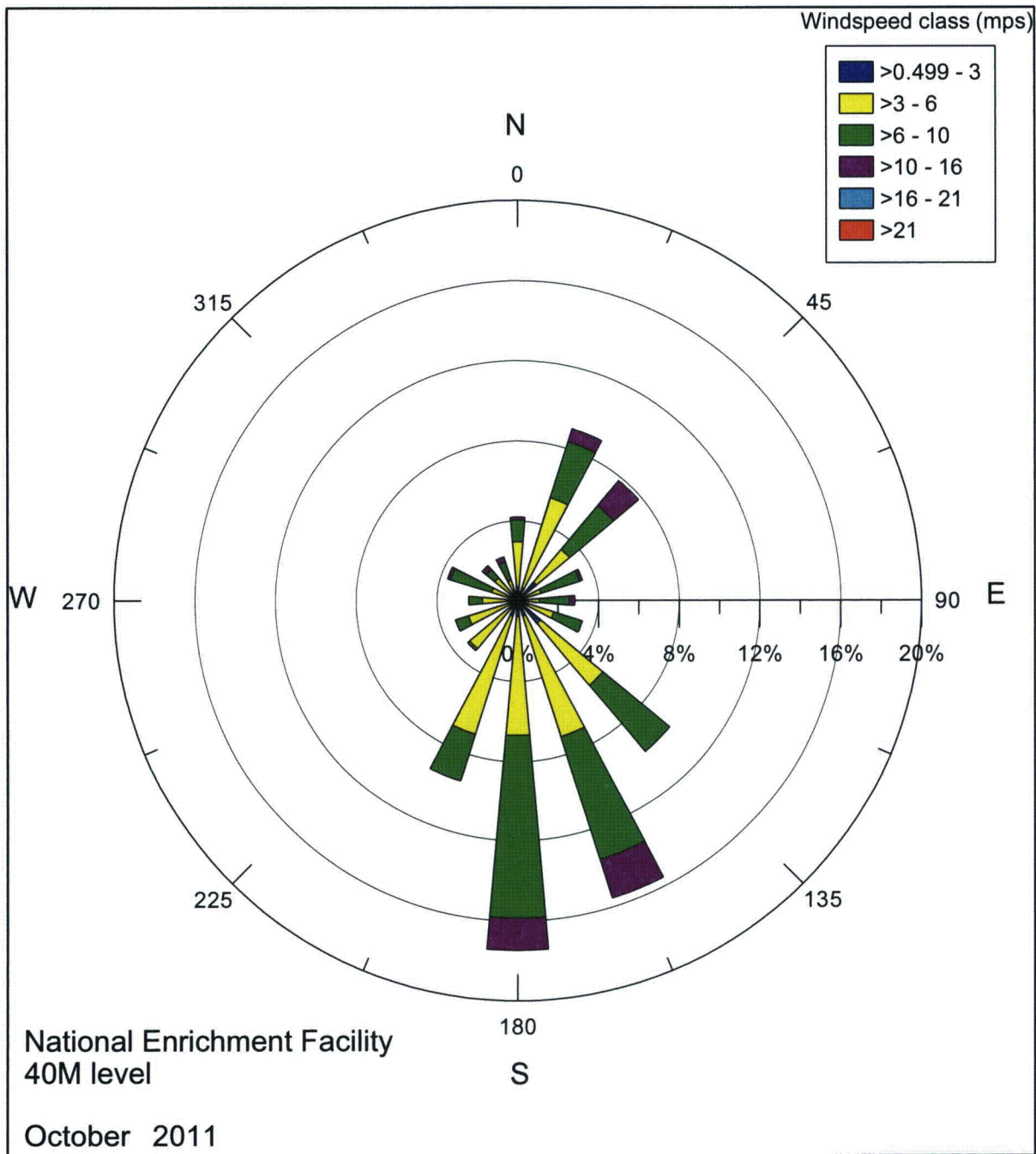


Figure 2.5 40-Meter Level Wind Rose, October 2011.

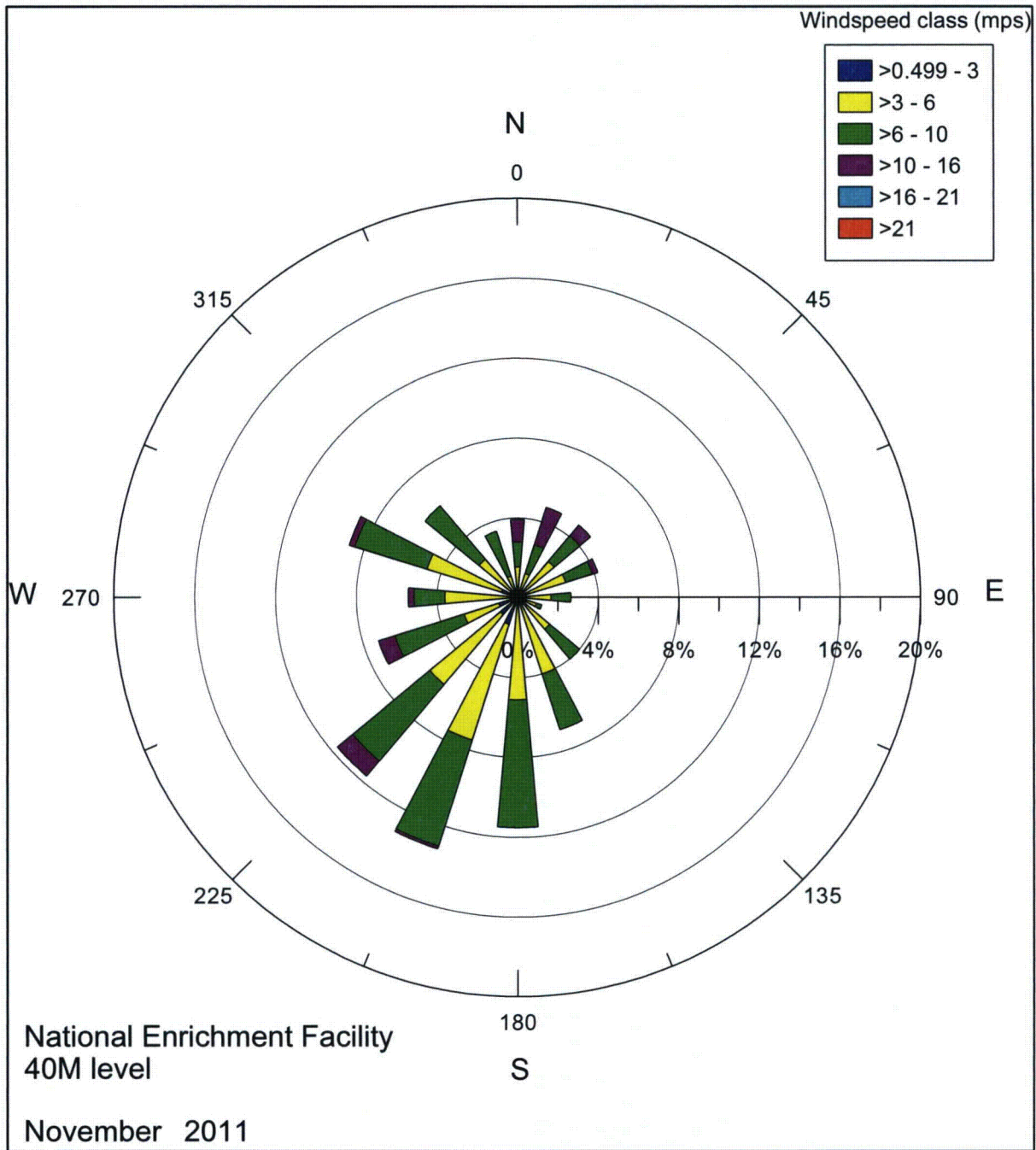


Figure 2.6 40-Meter Level Wind Rose, November 2011.

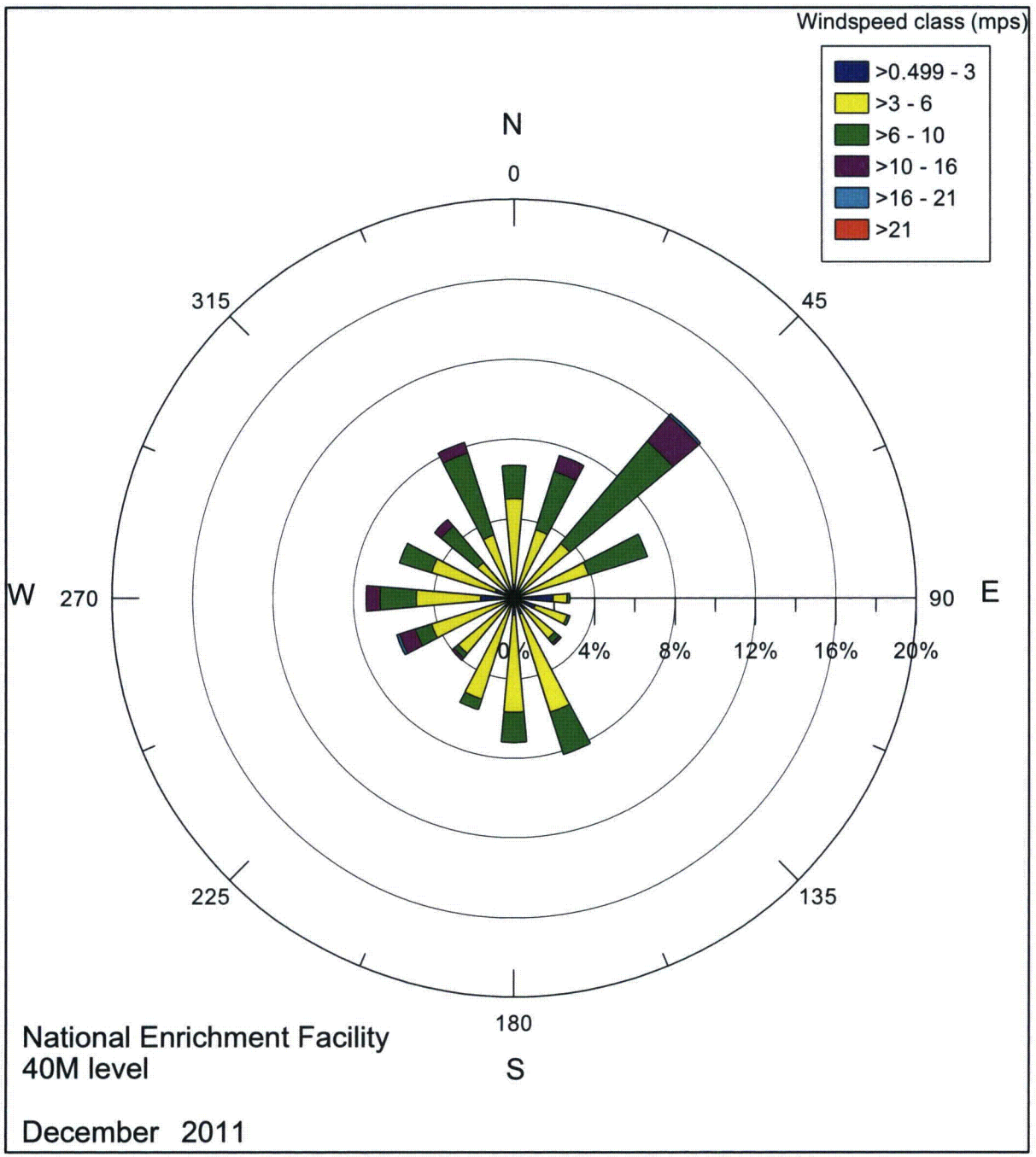


Figure 2.7 40-Meter Level Wind Rose, December 2011.

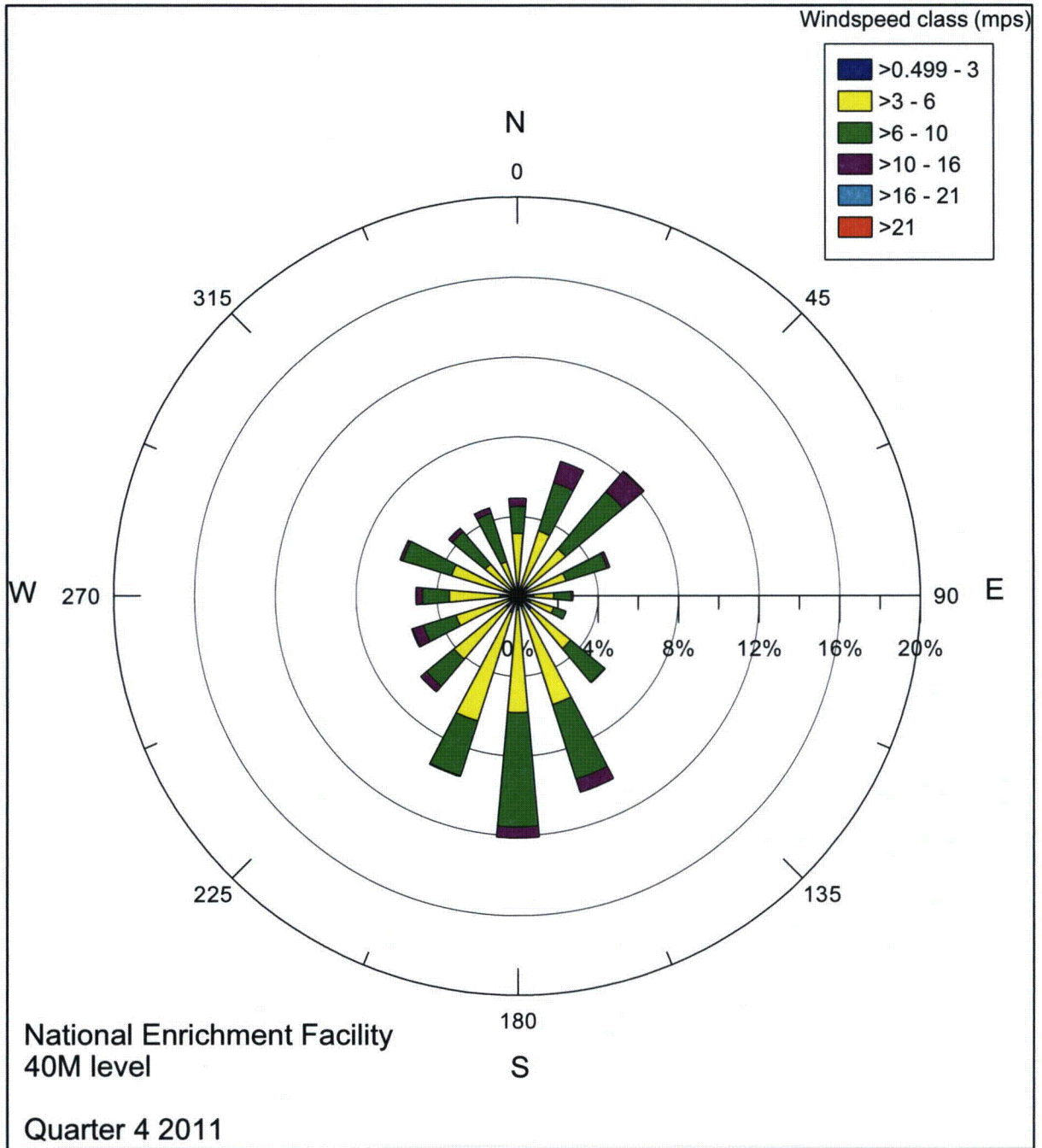


Figure 2.8 40-Meter Level Wind Rose, Fourth Quarter (October through December) 2011.

### 2.1.2 Wind Gust

The peak wind gust during the fourth quarter was 26.5 mps (59.3 mph) at the 40-meter level occurring on November 26 at 9:00. Wind gust information is presented in Table 2-1 and in Appendix B.

**Table 2-1**

**Wind Gust Summary in Meters Per Second for October through December 2011**

Month	Level (m)	Monthly Mean	Minimum Hour	Maximum Hour
October	10	7.4	1.1	21.3
	40	9.0	1.5	25.8
November	10	7.1	1.2	21.9
	40	9.0	0.6	26.5
December	10	6.7	1.1	19.9
	40	8.2	1.7	22.7

### 2.1.3 Temperature

Temperature is measured at the 10- and 40-meter levels. The ambient daily mean temperatures for October through December at the 10- and 40-meter levels ranged from a low of -7.0 degrees Centigrade (°C) at the 10-meter level in December to a high of 24.0°C at the 10-meter level in October. The hourly minimum ranged from -12.0°C at the 10-meter level on December 6 at 05:00 to 3.0°C at the 40-meter level on October 17 at 10:00. Hourly maximum temperatures ranged from 23.2°C at the 40-meter level on December 31 at 15:00 to 32.1°C at the 10-meter level on October 17 at 15:00. Hourly averages of the temperature data by level for October through December are presented in Appendix C. Temperature data for the period are summarized in Table 2-2.

**Table 2-2**

**Summary of Temperature in Degrees Centigrade (°C) for October through December 2011**

<b>Month</b>	<b>Level (m)</b>	<b>Monthly Mean</b>	<b>Maximum Daily Mean</b>	<b>Minimum Daily Mean</b>	<b>Maximum Hour</b>	<b>Minimum Hour</b>
October	10	18.2	24.0	5.1	32.1	1.9
	40	18.5	23.7	4.7	31.4	3.0
November	10	11.2	17.8	3.9	27.2	-5.9
	40	11.8	18.1	4.9	26.8	-2.5
December	10	3.8	12.8	-7.0	24.0	-12.0
	40	4.0	13.6	-6.8	23.2	-11.0

**2.1.4 Vertical Temperature Difference**

Vertical temperature difference is calculated between the 40 and 10-meter levels. Table 2-3 presents the monthly mean, maximum and minimum delta temperatures for the two levels in °C. Vertical temperature difference data are also presented in Appendix C.

**Table 2-3**

**Summary of Delta-Temperature in Degrees Centigrade (°C) for  
October through December 2011**

<b>Month</b>	<b>Level</b>	<b>Monthly Mean</b>	<b>Monthly Maximum</b>	<b>Monthly Minimum</b>
October	40-10 meter	0.4	7.8	-1.2
November	40-10 meter	0.7	7.3	-1.1
December	40-10 meter	0.3	5.1	-1.0



### 2.1.5 Atmospheric Stability

Pasquill-Gifford (P-G) stability classes were computed using the vertical temperature difference ( $\Delta T$ ) because it is an effective indicator for the worst-case stability conditions (e.g., P-G stability classes E, F, and G). Pasquill-Gifford stabilities were computed based on Table 1.0 of the Nuclear Regulatory Commission Regulatory Guide 1.23 (Safety Guide 23) which is reproduced in Table 2-4. The stability class data for October through December, based on vertical temperature difference, are summarized in Table 2-5 and Appendix C.

**Table 2-4**  
**Classification of Atmospheric Stability**

Stability Classification	Pasquill Stability Category	Ambient Temperature Change with Height ( $^{\circ}\text{C}/100\text{m}$ )
Extremely unstable	A	$\Delta T \leq -1.9$
Moderately unstable	B	$-1.9 < \Delta T \leq -1.7$
Slightly unstable	C	$-1.7 < \Delta T \leq -1.5$
Neutral	D	$-1.5 < \Delta T \leq -0.5$
Slightly stable	E	$-0.5 < \Delta T \leq 1.5$
Moderately stable	F	$1.5 < \Delta T \leq 4.0$
Extremely stable	G	$\Delta T > 4.0$

**Table 2-5**  
**Summary of Atmospheric Stability Based on Vertical Temperature Difference in Percent for October through December 2011**

Month	Stability Class						
	A	B	C	D	E	F	G
October	25.8	3.6	3.6	15.3	13.3	15.3	23.0
November	21.8	3.2	2.6	7.5	18.6	18.1	28.2
December	9.4	3.0	3.0	42.6	15.1	8.7	18.3

### 2.1.6 Relative Humidity

Table 2-6 presents the monthly means, maximum and minimum relative humidity information for October through December. Relative humidity data are presented in Appendix D.

**Table 2-6**

**Summary of Relative Humidity in Percent for October through December 2011**

<b>Month</b>	<b>Monthly Mean</b>	<b>Daily Mean Maximum</b>	<b>Daily Mean Minimum</b>	<b>Monthly Maximum</b>	<b>Monthly Minimum</b>
October	44	82	21	96	8
November	43	84	21	97	10
December	71	98	34	98	14

### 2.1.7 Solar Radiation

Solar radiation data October through December are summarized in Table 2-7 and are presented in Appendix E. The statistics for the solar radiation data presented in Table 2-7 are based on daylight hours.

**Table 2-7**

**Solar Radiation Data in Watts Per Meter Squared (W/m<sup>2</sup>) for October through December 2011**

<b>Month</b>	<b>Monthly Mean</b>	<b>Maximum Daily Total</b>	<b>Minimum Daily Total</b>	<b>Maximum Hour</b>
October	449	6063	1149	860
November	340	4847	1189	735
December	242	4305	481	753

### 2.1.8 Barometric Pressure

Barometric pressure data for October through December are presented in Table 2-8 and in Appendix F.

**Table 2-8**

**Barometric Pressure Data in Millibars (mb) for October through December 2011**

<b>Month</b>	<b>Monthly Mean</b>	<b>Maximum Daily Mean</b>	<b>Minimum Daily Mean</b>	<b>Maximum Hour</b>	<b>Minimum Hour</b>
October	899	906	892	908	889
November	900	910	891	913	888
December	902	910	891	912	888

### 2.1.9 Precipitation

For October through December, 1.59 inches of precipitation were measured at the site. The precipitation data are summarized in Table 2-9 and are presented in Appendix G.

**Table 2-9**

**Summary of Precipitation in Inches for October through December 2011**

<b>Month</b>	<b>Monthly Total</b>	<b>Maximum Daily Total</b>	<b>Maximum Hourly Total</b>
October	0.20	0.19	0.12
November	0.02	0.02	0.02
December	1.37	0.33	0.14

## 2.2 Data Recovery

Data recoveries for the meteorological parameters, in percent possible for October through December are provided in Table 2-10.

**Table 2-10**

**Meteorological Measurement Data Recovery in Percent for October through December 2011**

<b>Month</b>	<b>Level (m)</b>	<b>Wind Speed</b>	<b>Wind Direction</b>	<b>Wind Gust</b>	<b>Temp.</b>	<b>Vertical Temp. Diff.</b>	<b>Relative Humidity</b>	<b>Solar Radiation</b>	<b>Bar. Pressure</b>	<b>Precip.</b>
October	1.0	NA	NA	NA	NA	NA	NA	NA	NA	100
	1.5	NA	NA	NA	NA	NA	NA	NA	100	NA
	2.0	NA	NA	NA	NA	NA	NA	100	NA	NA
	10	100	100	100	100	NA	100	NA	NA	NA
	40	100	100	100	100	100	NA	NA	NA	NA
November	1.0	NA	NA	NA	NA	NA	NA	NA	NA	100
	1.5	NA	NA	NA	NA	NA	NA	NA	100	NA
	2.0	NA	NA	NA	NA	NA	NA	100	NA	NA
	10	100	100	100	100	NA	100	NA	NA	NA
	40	100	100	100	100	100	NA	NA	NA	NA
December	1.0	NA	NA	NA	NA	NA	NA	NA	NA	100
	1.5	NA	NA	NA	NA	NA	NA	NA	100	NA
	2.0	NA	NA	NA	NA	NA	NA	100	NA	NA
	10	100	100	100	100	NA	100	NA	NA	NA
	40	96.8	96.8	96.8	100	100	NA	NA	NA	NA

### **3.0 QUALITY CONTROL**

Meteorological data collected at NEF's monitoring station have been subjected to a series of quality control procedures to document the validity of the data and increase the integrity of the data sets. The quality control performed for these data is described in this section.

#### **3.1 Equipment Acceptance Testing**

Upon receipt, the meteorological equipment was acceptance tested in MSI's instrument laboratory prior to field deployment. All equipment installed met NRC specifications as outlined in Table 2 of NRC Regulatory Guide 1.23.

#### **3.2 Equipment Calibration**

Meteorological equipment calibrations are performed once sensors were interfaced with the data acquisition system at installation, when audits indicate the need, or when problems are identified. Sensors which do not meet NRC calibration specifications are replaced or repaired and re-calibrated. Calibrations were conducted on the meteorological sensors on September 29, 2011. The equipment used to calibrate the equipment is certified at least annually to A2LA or NIST standards.

#### **3.3 Visual Inspection of Equipment**

Visual inspection of the meteorological tower and sensors is performed at least every three months or more frequently when problems are indicated. Abnormal conditions are logged in MSI's logbook and reported immediately to the program manager for corrective action.

### 3.4 Remote Interrogation of the Monitoring Station

The data logger at the meteorological station is interrogated daily to download and process the data to maximize data recovery and to identify problems in a timely manner. Daily, a meteorologist or data specialist verifies that each sensor is operational and that it appears to be measuring data accurately. In addition, a password-protected project web-site is updated after every successful download is available to LES and MSI personnel. Any abnormal data values or apparent problems are reported immediately to the program manager or quality assurance officer who initiates corrective action and determines if a special visit to the site is required. Figures 3.1 and 3.2 present examples of the data displays from the web-site.

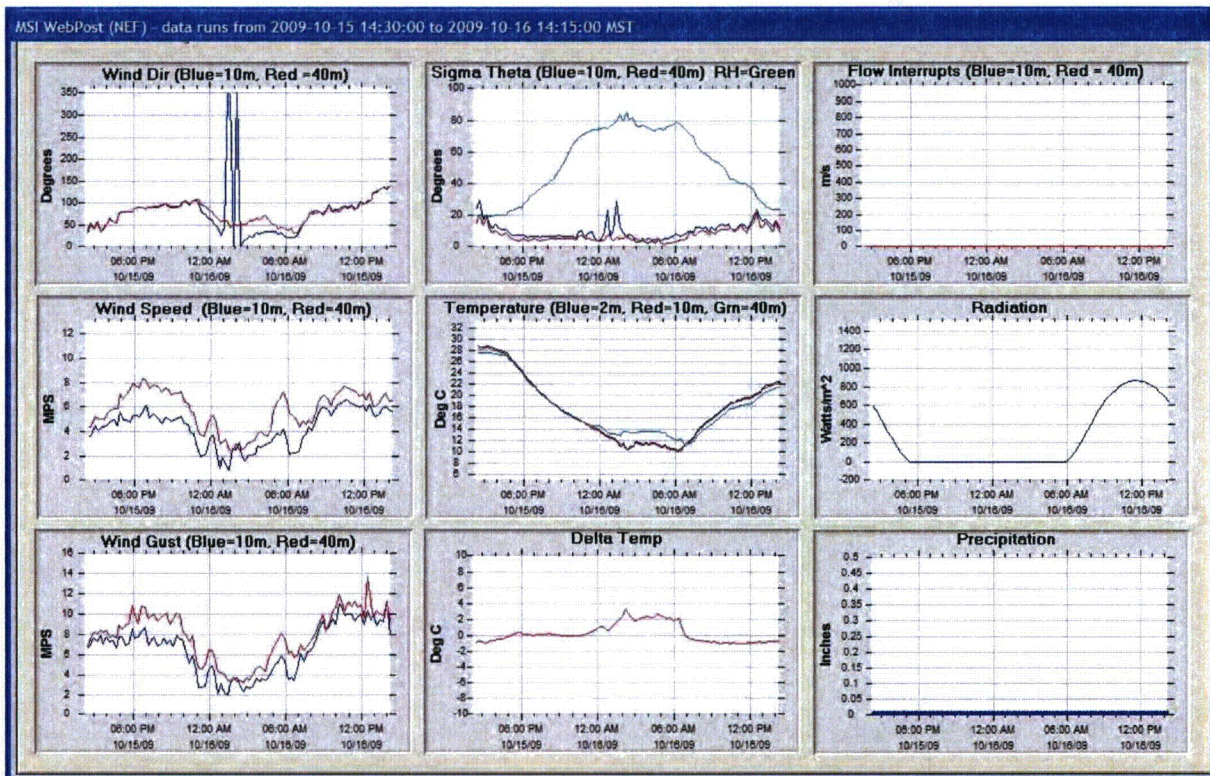


Figure 3.1 Example of Meteorological Strip Charts from Website

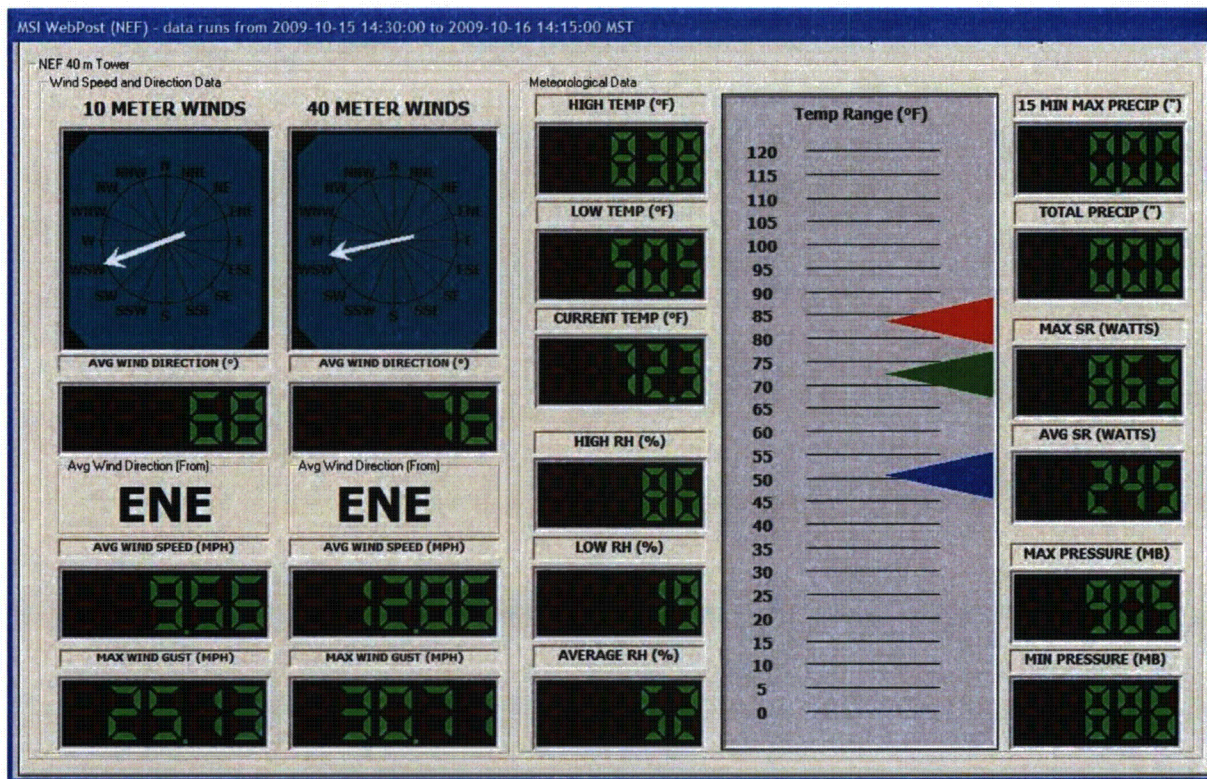


Figure 3.2 Example Wind Data Information from Website

### 3.5 Quality Control Checks for Data Validation

During data acquisition, the data logger collects and saves fifteen-minute averages of each measured parameter. The values are stored in memory for subsequent retrieval via telephone, modem, and Internet. After the site data logger is interrogated, collecting all data since the last interrogation, the data are stored on MSI computers in Salt Lake City. These data are then subjected to a series of quality tests using MSI's proprietary software. Example quality control (QC) tests used to generate flags and warnings that a parameter value is outside of a normally acceptable range are listed in Table 3-1.

**Table 3-1**

**Example Quality Control Checks Imposed by Data QC Program**

<b>Meteorological Data</b>
Wind speed > 25 m/s for a 15-minute average.
Temperature change exceeds 3EC in a 15-minute period.
Time increments greater than fifteen minutes between data records.
Ambient temperature exceeds 40EC.
Ambient temperature falls below -20EC.
Wind direction unchanged for three hours.
Wind speed unchanged for three hours.
Temperature unchanged for three hours.
Battery voltage <11 volts.
Change in pressure more than 2 millibars in 15 minutes.
Relative humidity > 100%.
Relative humidity < 5%.
Precipitation >0.15 inches in 15 minutes.

The QC program produces a report that identifies each value in the data file that fails one or more of the listed tests. This report also provides means, maxima and minima for each variable. In addition, stacked parameter plots are generated which consist of every data point downloaded and are reviewed by a qualified meteorologist for consistency and possible problems. This review by a qualified meteorologist assures that problems that might not be flagged by the software will always be caught by the reviewer. The quality control test reports for October through December 2011 are included in Appendix A.

### **3.6 Data Validation**

Various levels of data validation are performed. The initial level of data validation is essentially the raw data obtained directly from the data acquisition system in the field. These data are stored and are unedited and never manipulated. The next level of validation involves quantitative and qualitative reviews for accuracy, completeness, and internal consistency. This is performed by utilizing MSI's propriety QC program. When the QC program identifies values that exceed the criteria set for that parameter, the data file is inspected visually.



In most cases, a flagged value is not invalid; it merely fell outside of expected ranges or "normal" rates of change for that parameter. Qualitative checks are performed by a meteorologist who determines that if the value is reasonable, the value is not invalidated. If there is a reason to suspect the data point, the value is reset to "missing." (This is done on the data management file only, not on the raw data file collected from the data logger) For the purposes of this data report, data failures or discrepancies that would invalidate an hourly average for the meteorological site are listed below:

- loss of more than one 15-minute average in any 1-hour period; and
- visual evidence, on the stacked parameter/time plots for example, that the 15-minute value is an outlier.

Invalid data periods for the fourth quarter 2011 are presented in Table 3-2.

**Table 3-2**  
**Invalid Data Periods for Fourth Quarter 2011**

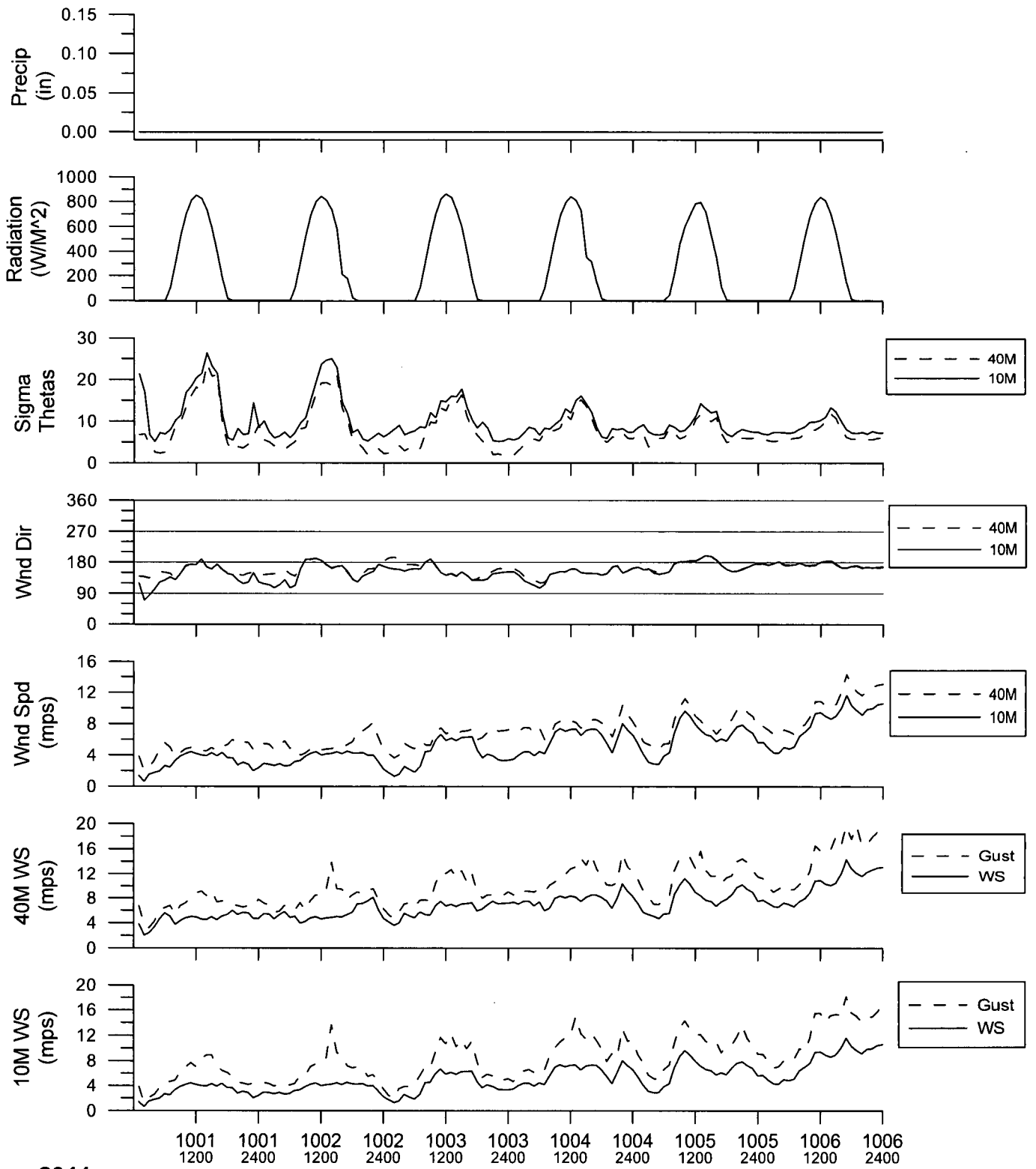
Parameter	Beginning		Ending		Reason	Result
	Date	Time	Date	Time		
40M Wind spd.,wind dir., wind gust	12/02/2011	09:01	12/03/2011	04:00	1	Set to missing
40M Wind spd.,wind dir., wind gust	12/10/2011	21:01	12/11/2011	02:00	1	Set to missing

1. Anemometer frozen.

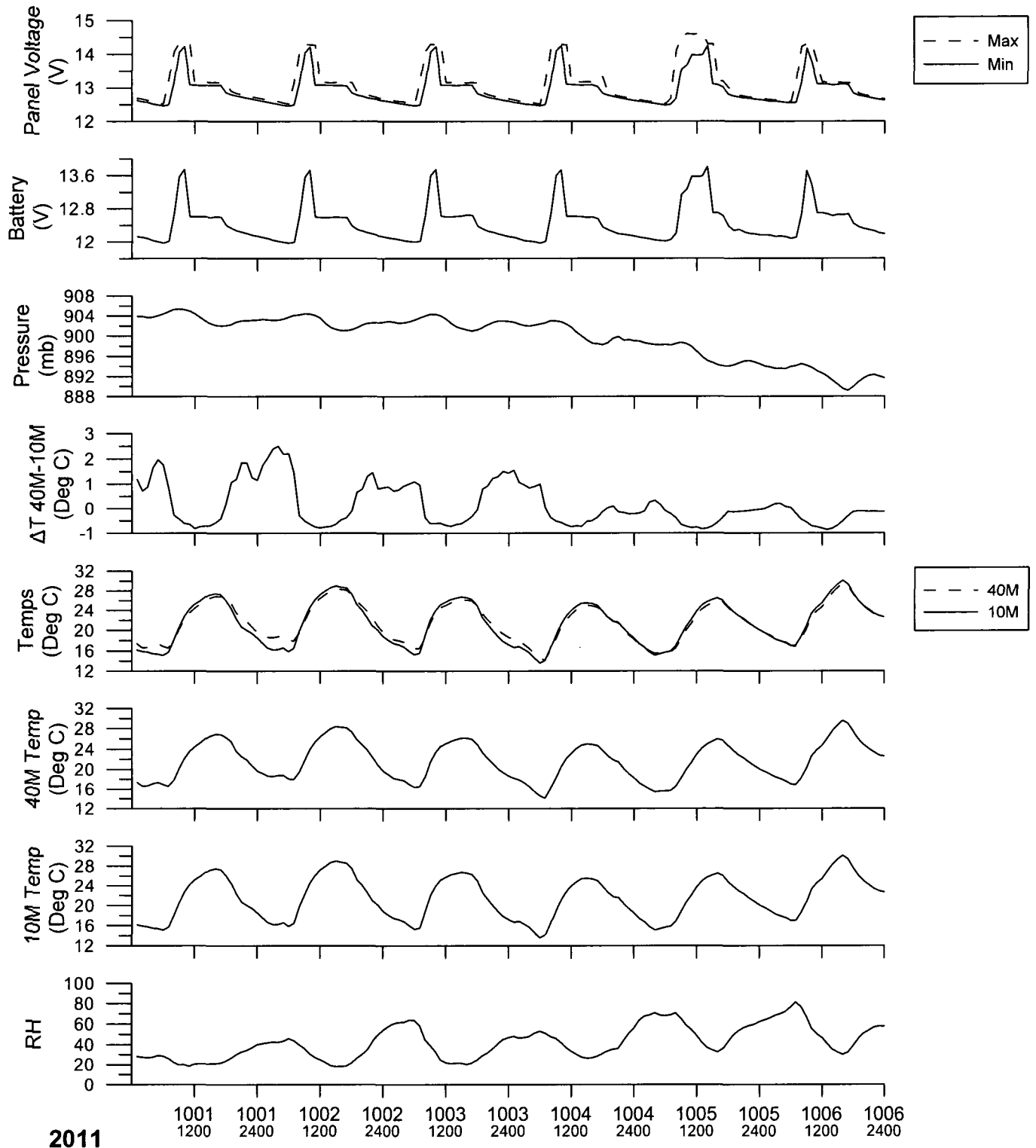
#### **4.0 QUALITY ASSURANCE AUDITS**

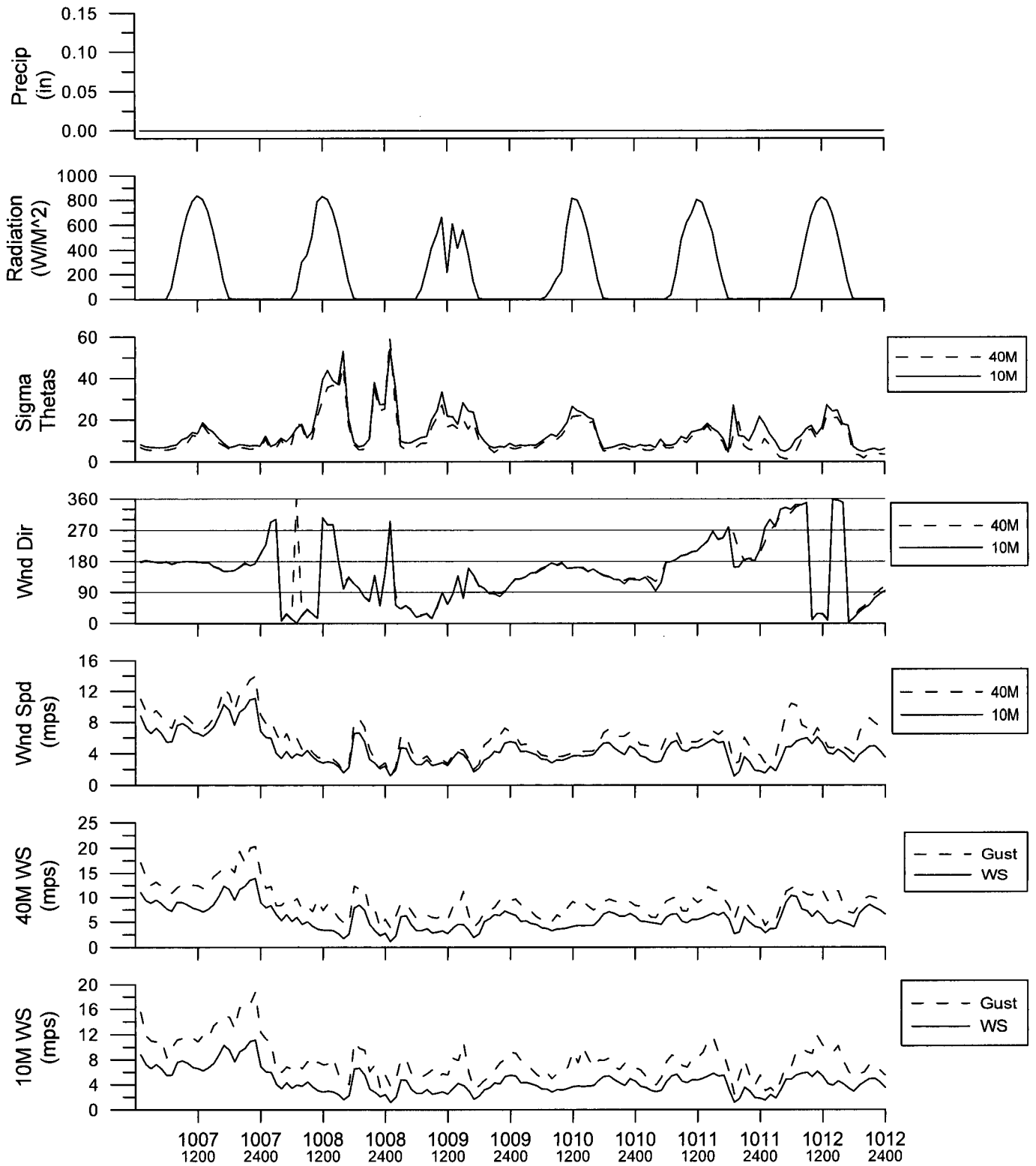
Due to budget constraints, calibration verifications are conducted every six months. Independent performance audits are no longer performed. The last performance audit of the meteorological sensors was conducted on June 23, 2011. Results of the audit were presented in a separate report.

**Appendix A**  
**Stacked Parameter Plots for October through December 2011**

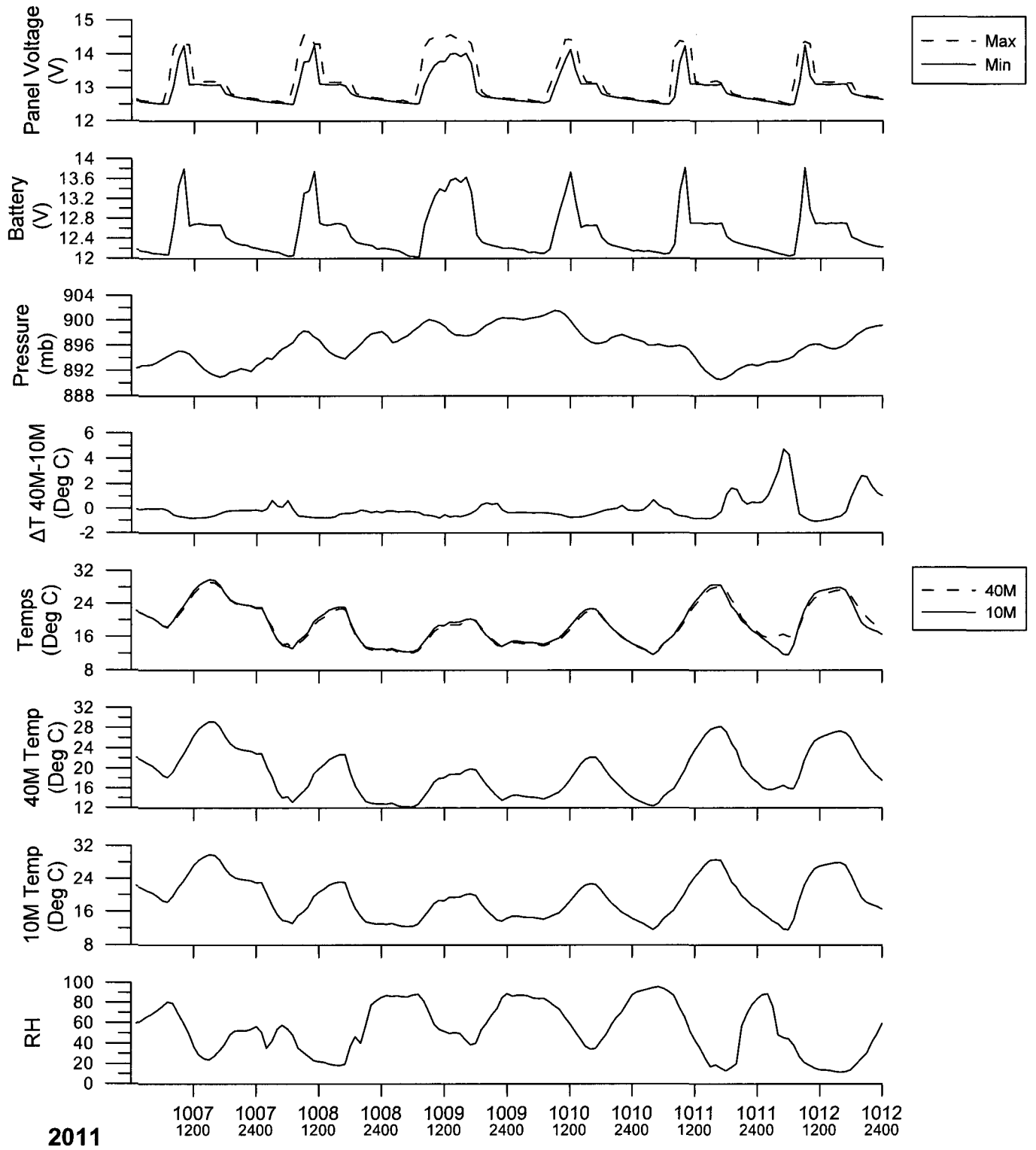


2011

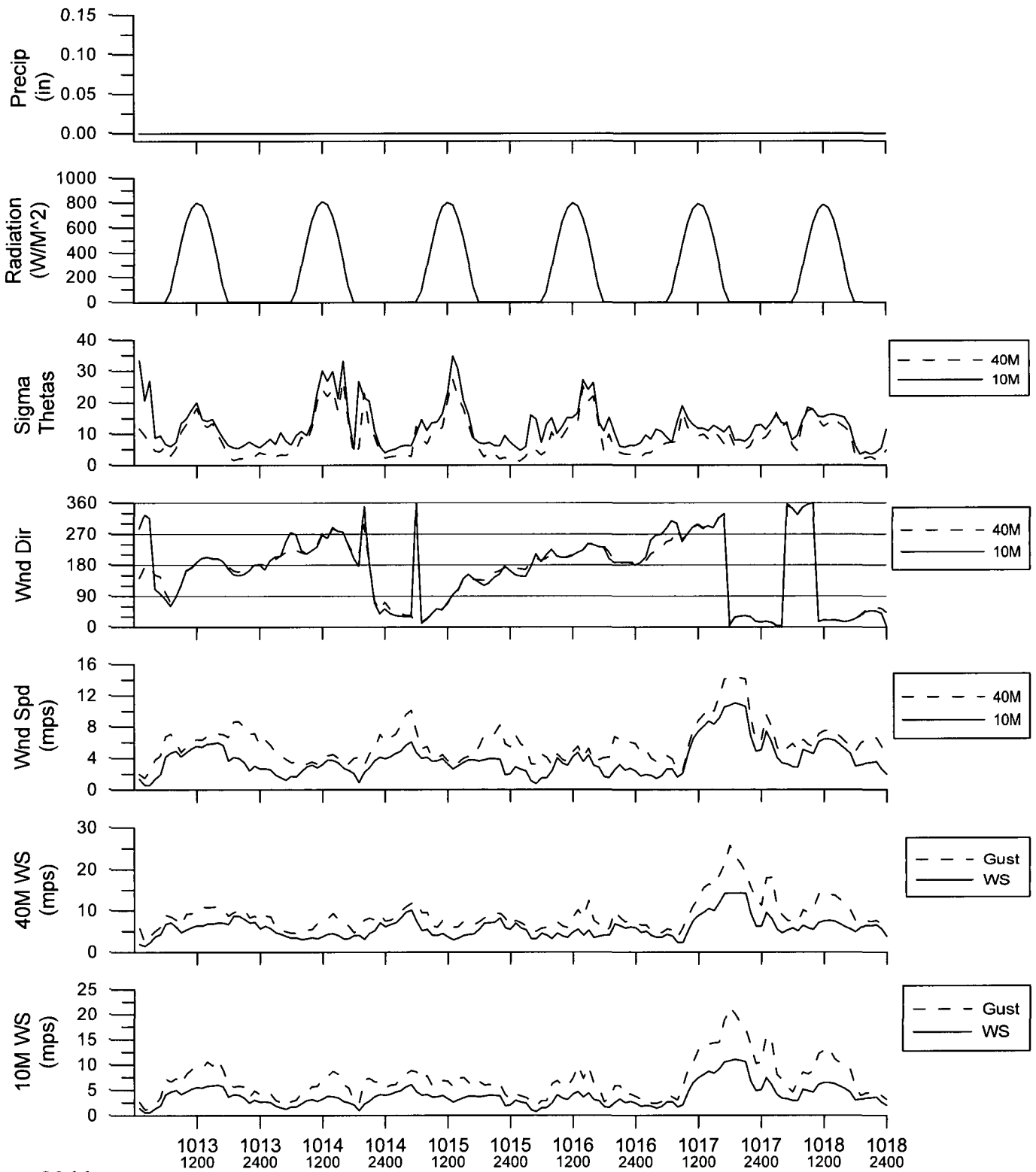




2011

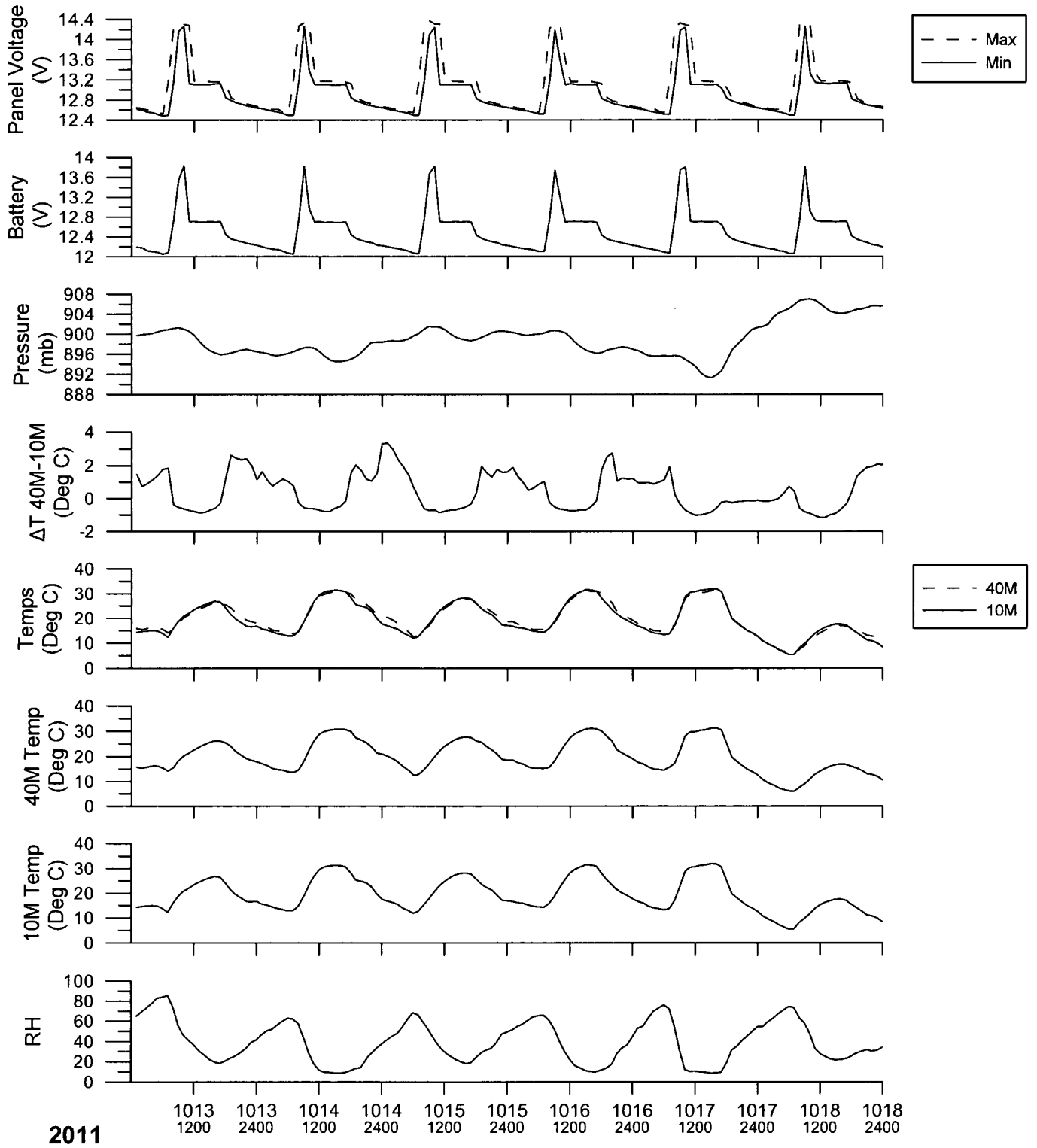


2011

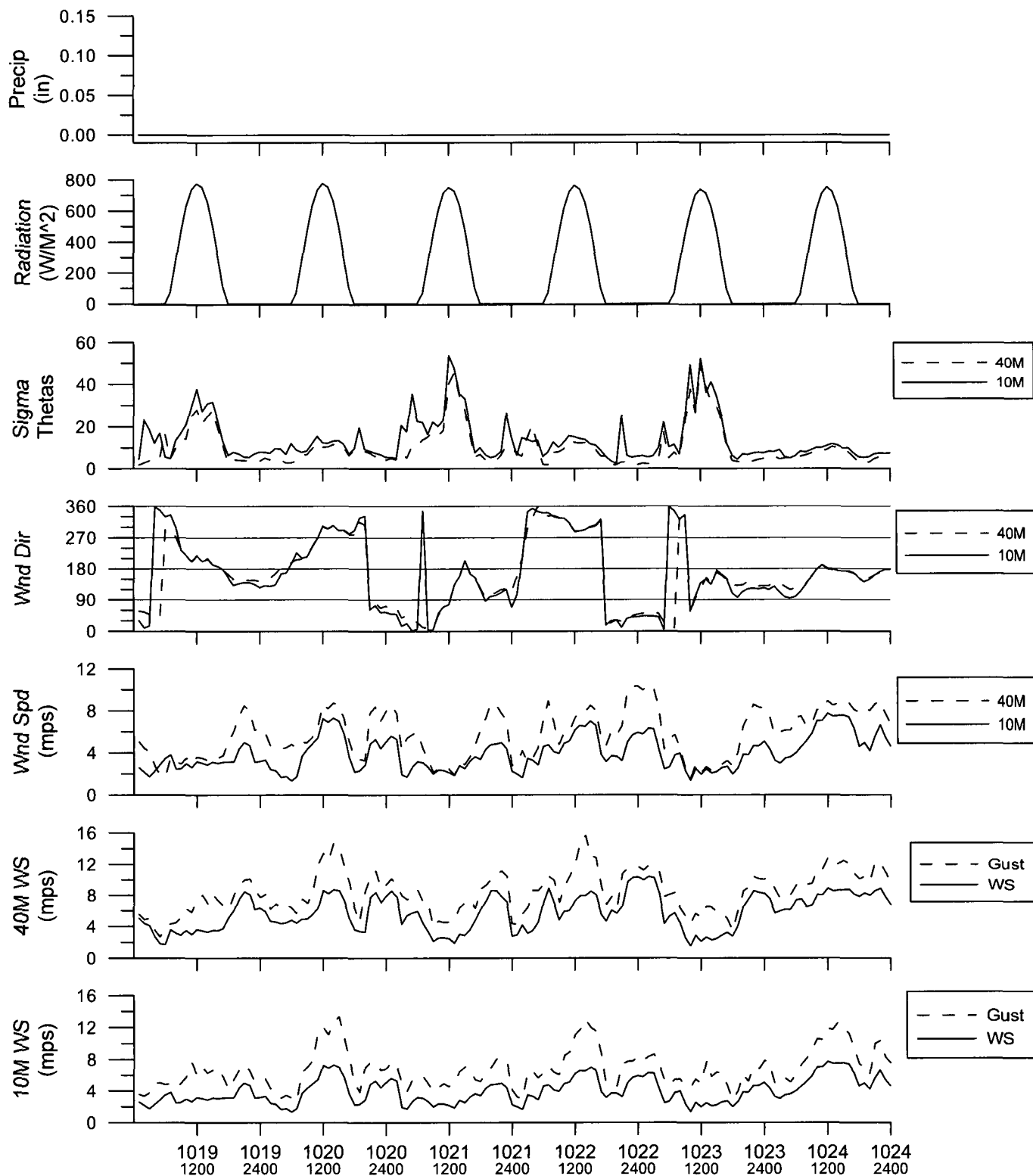


2011

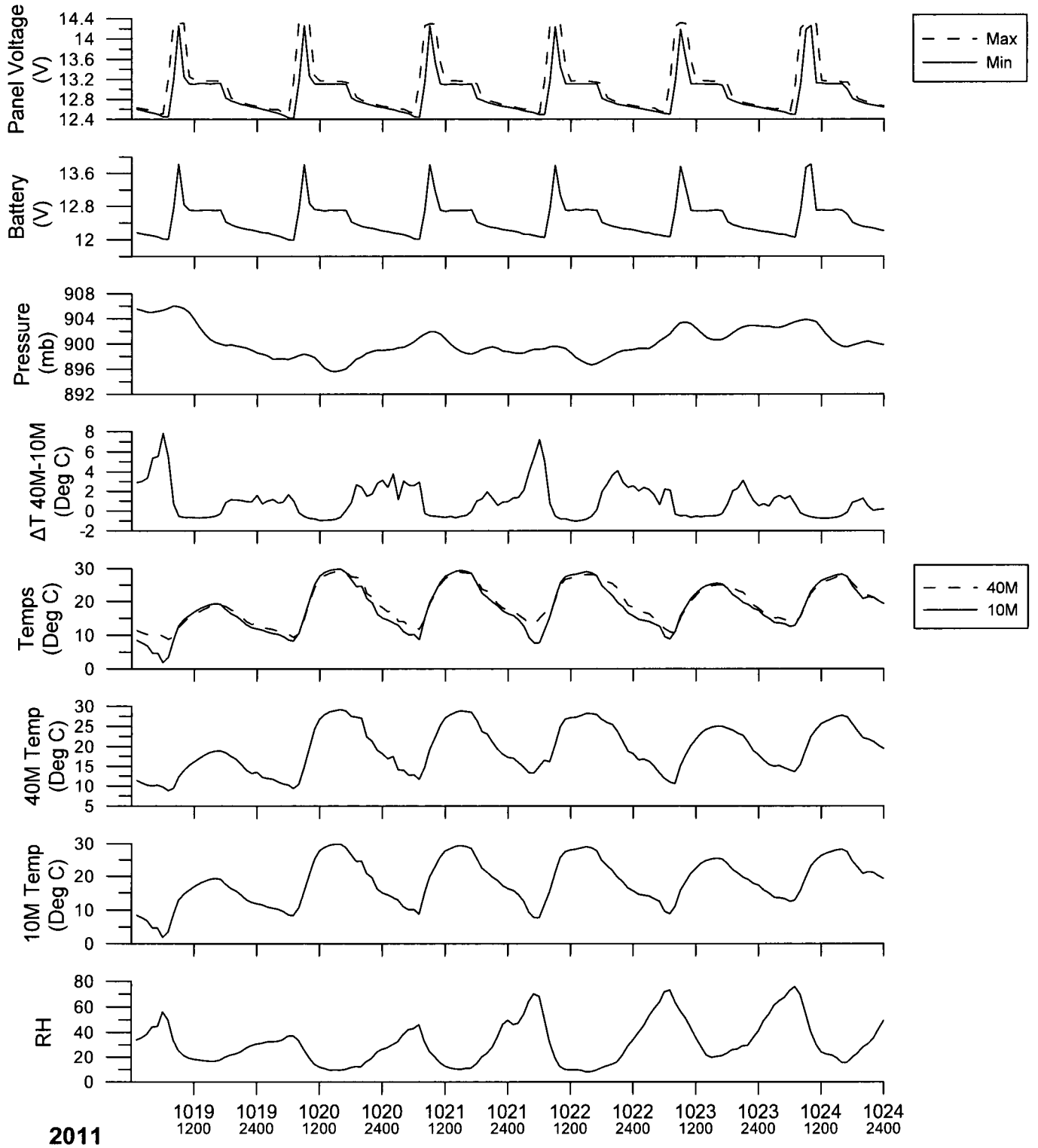




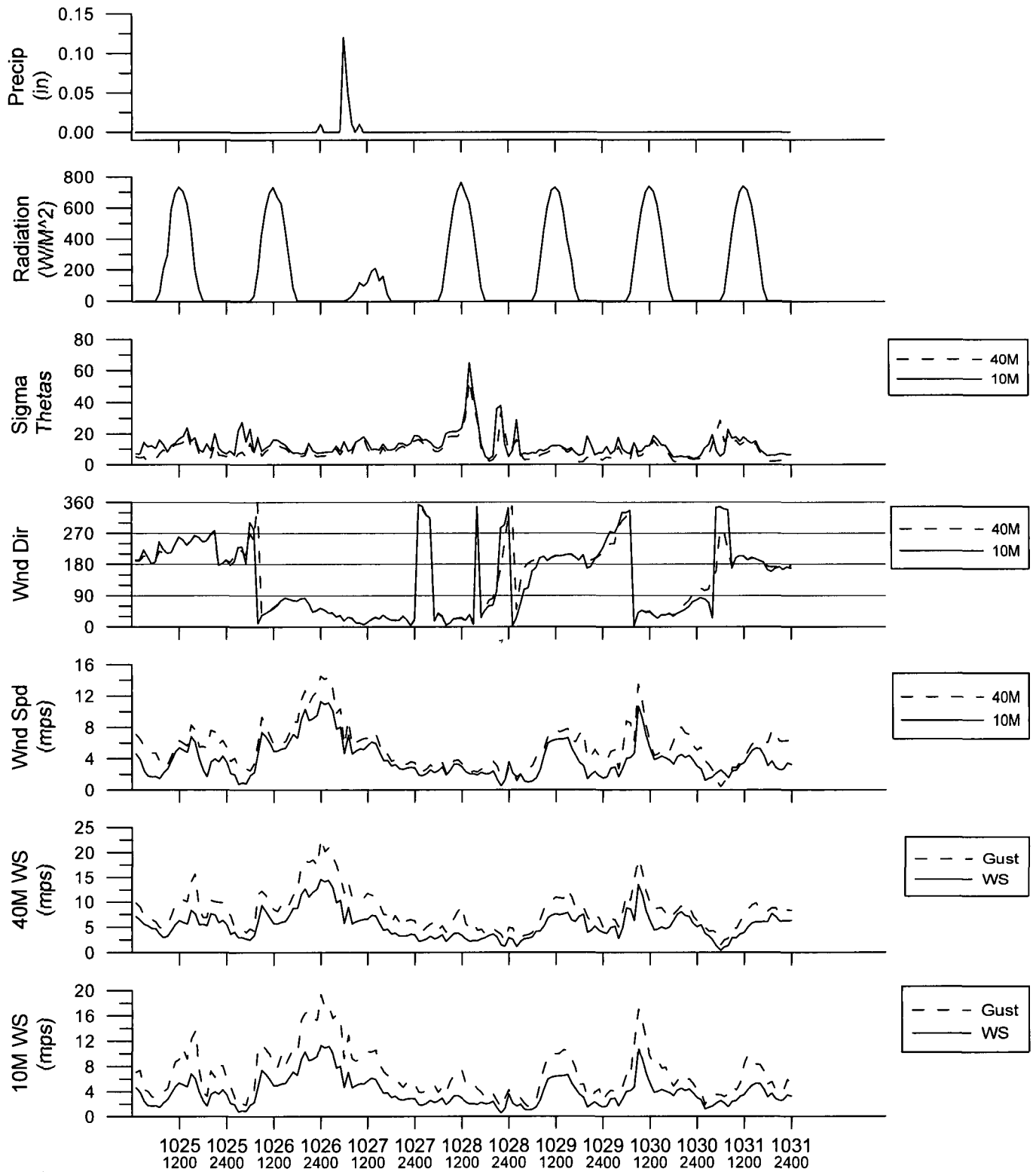
2011



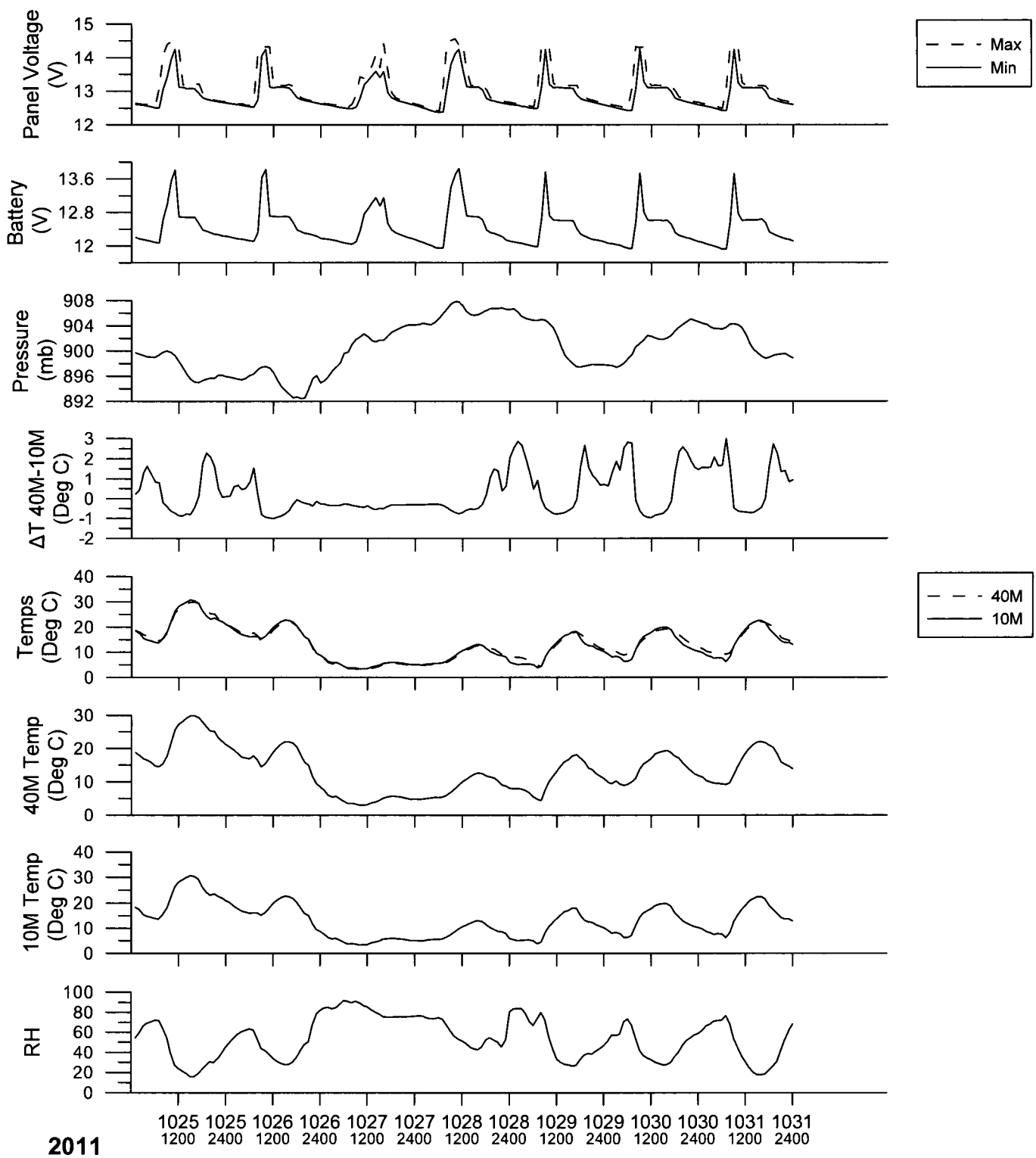
2011



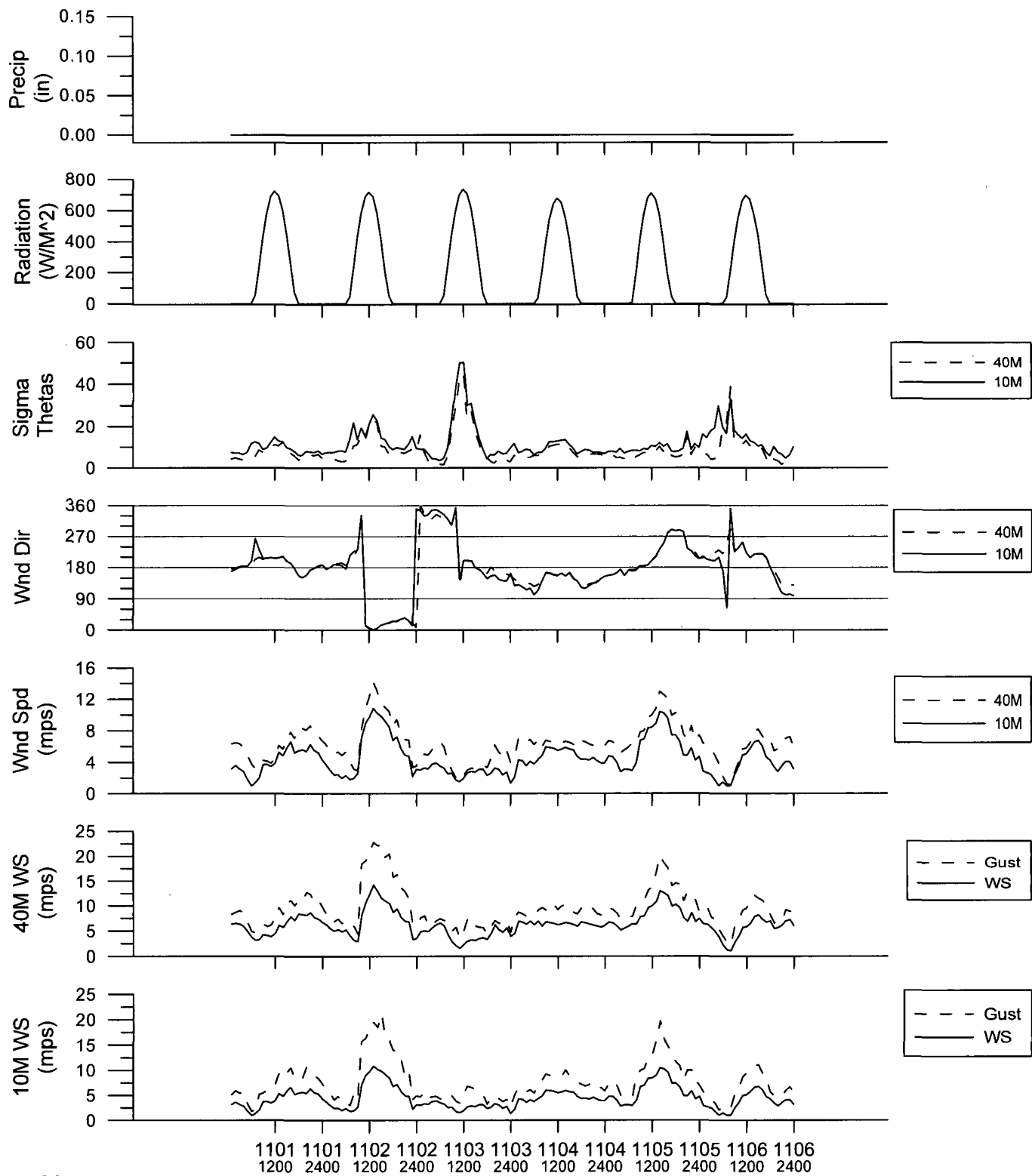
2011



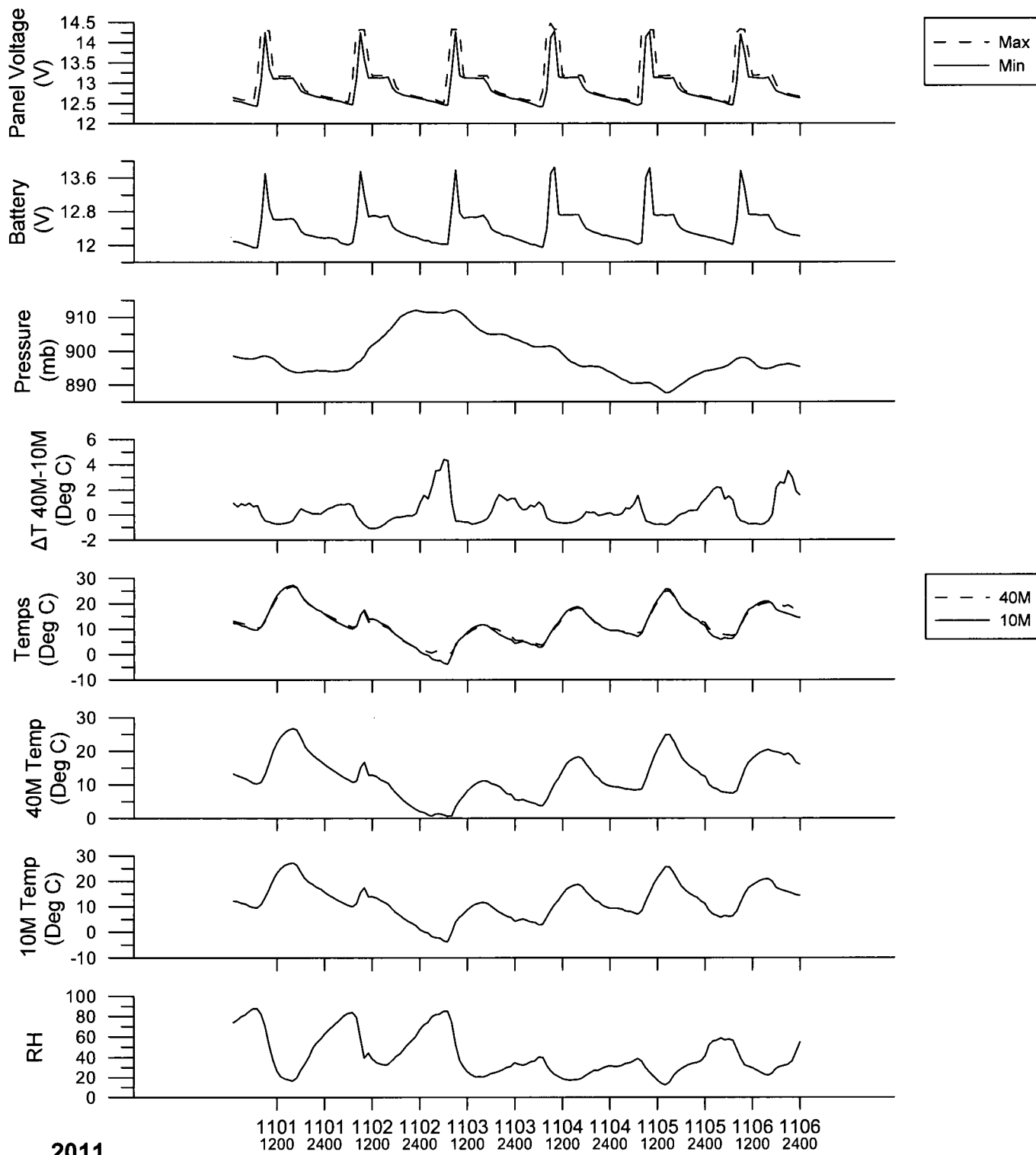
2011



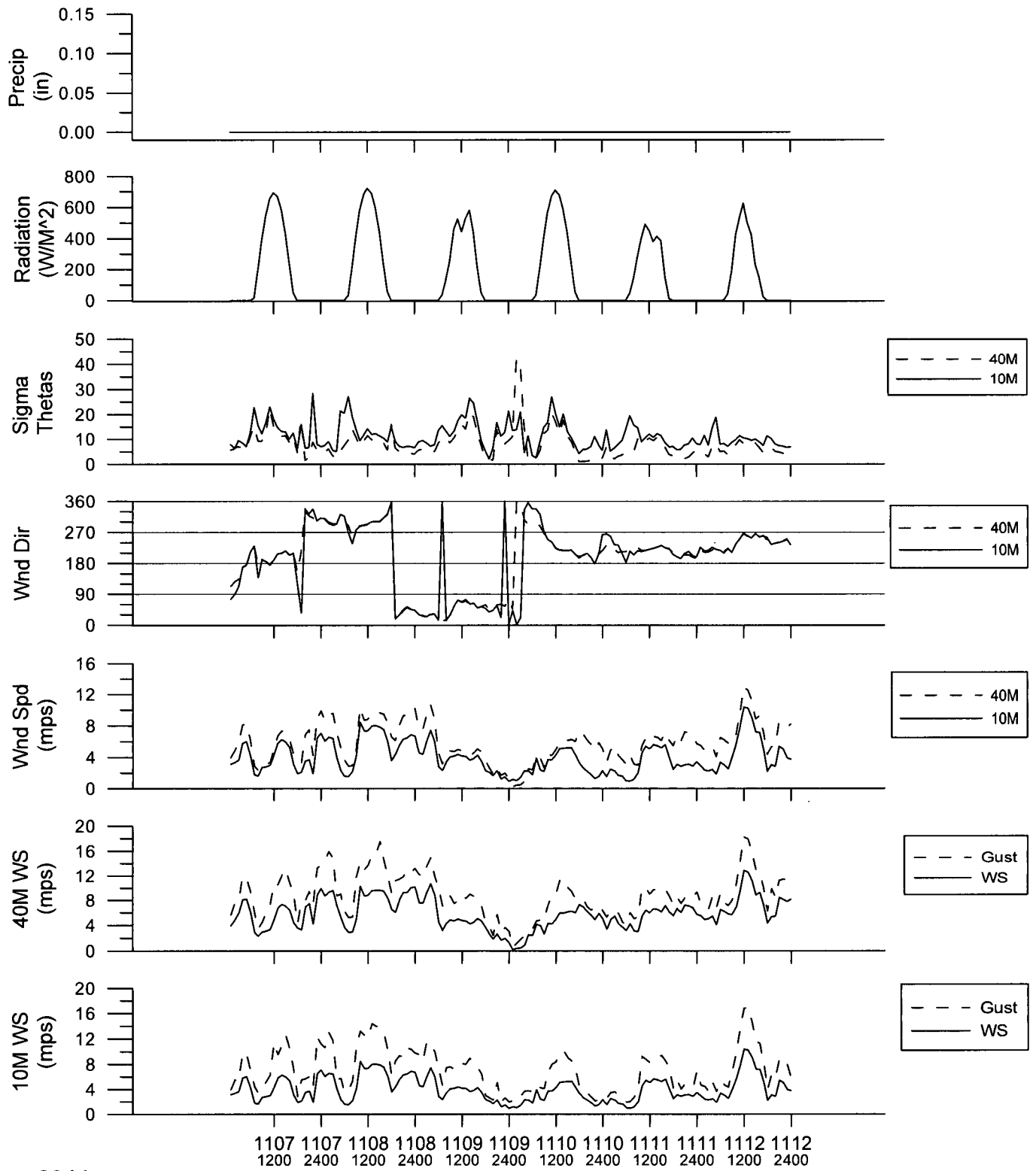
2011



2011

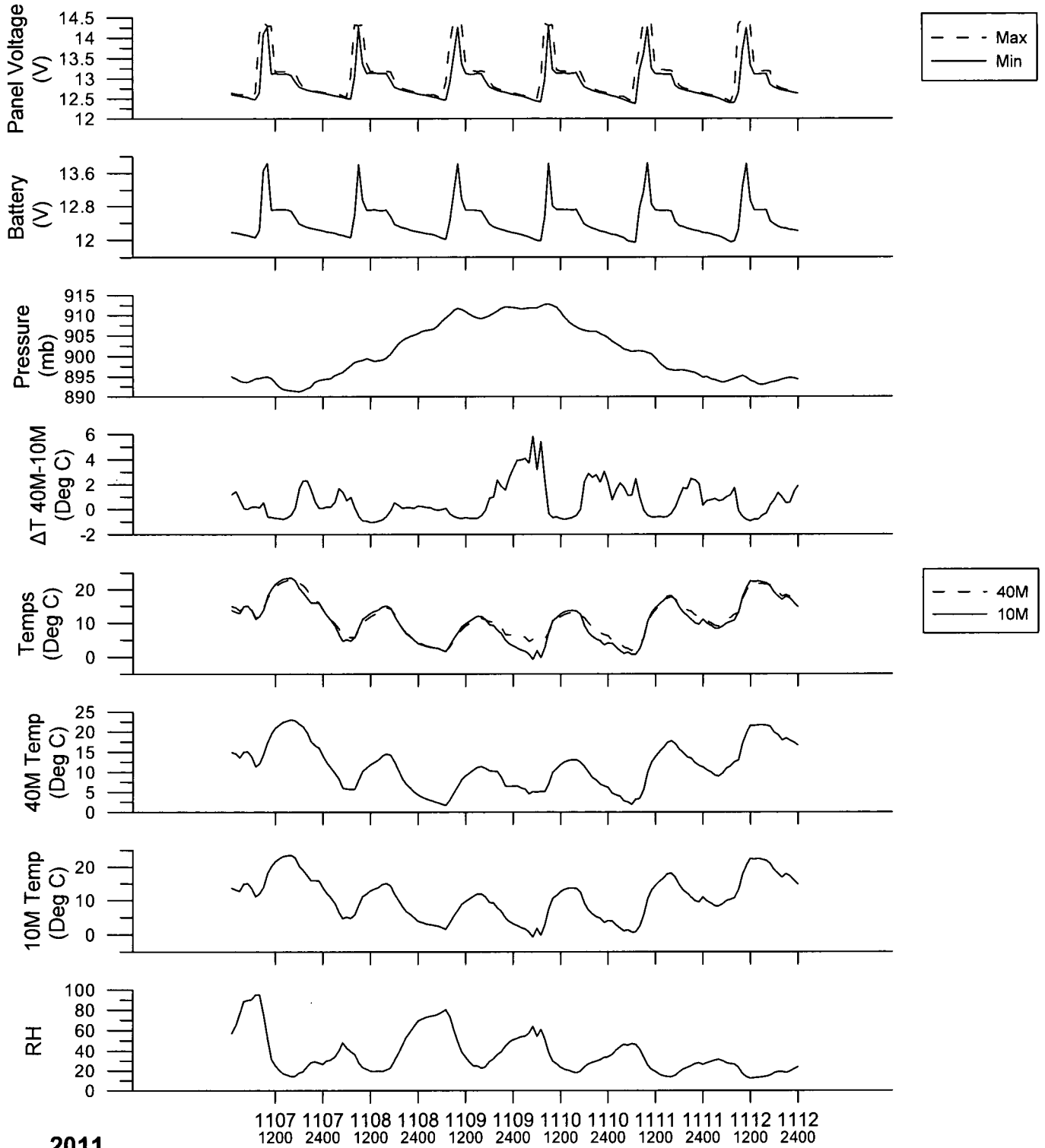


2011

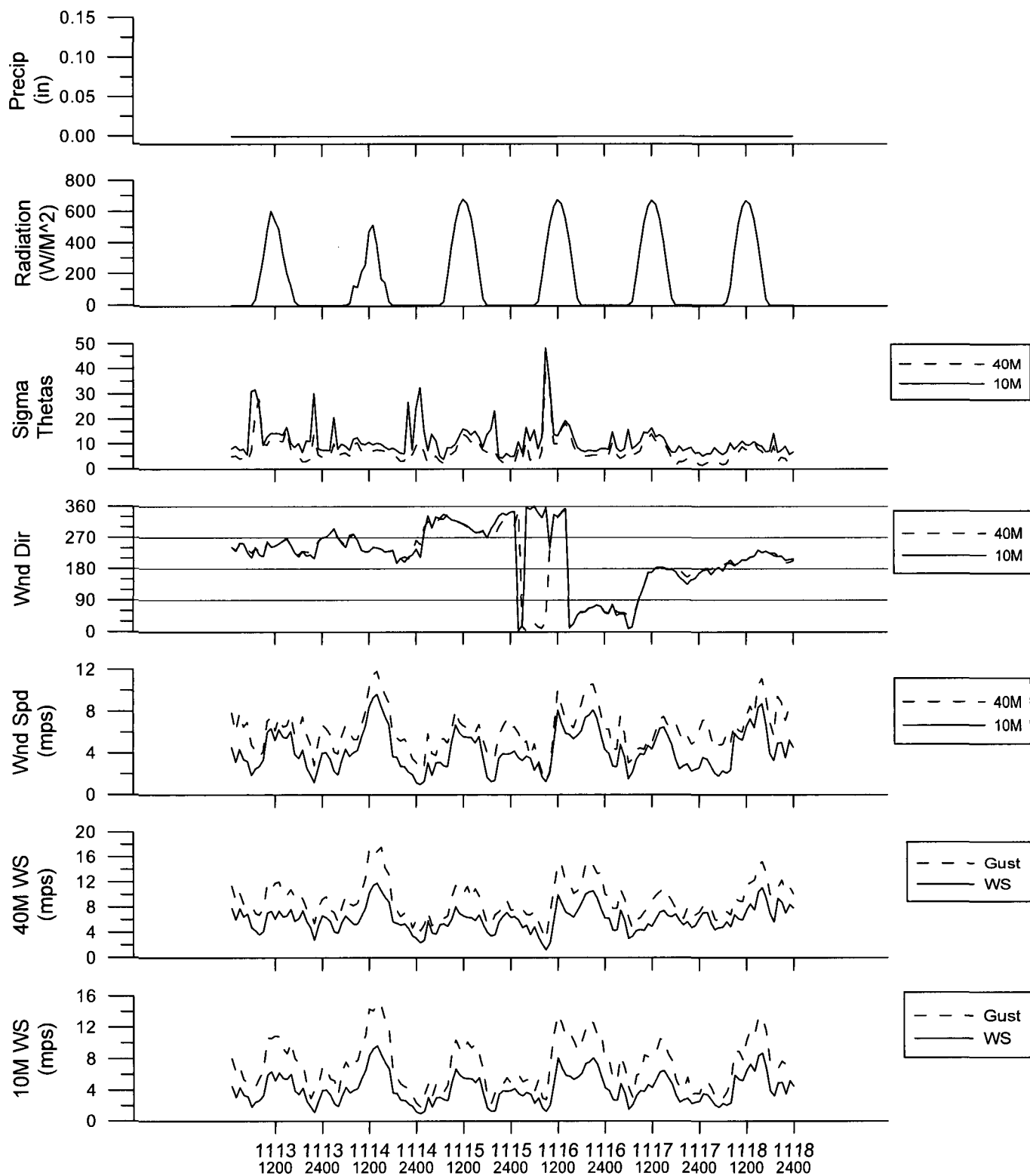


2011

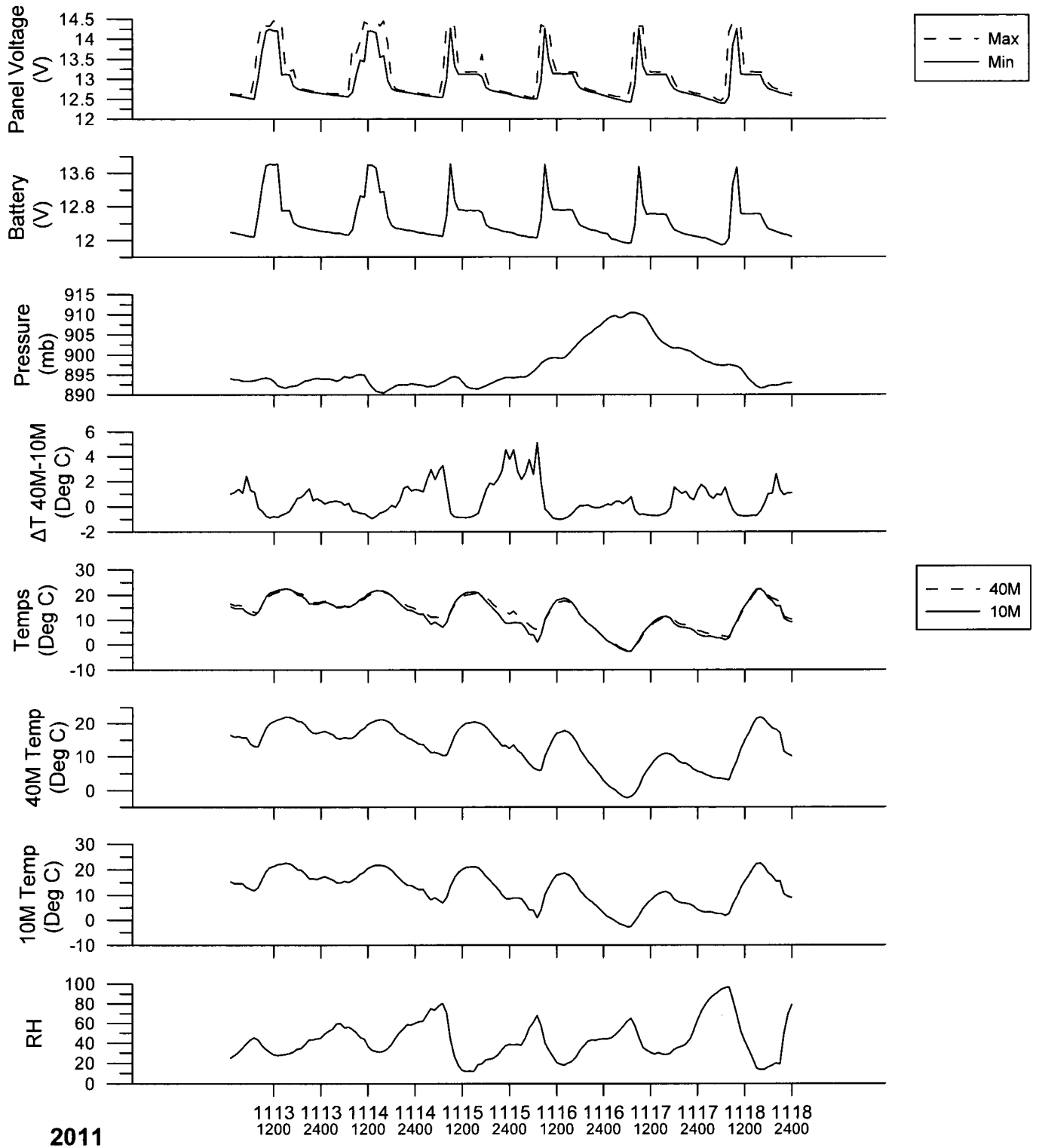




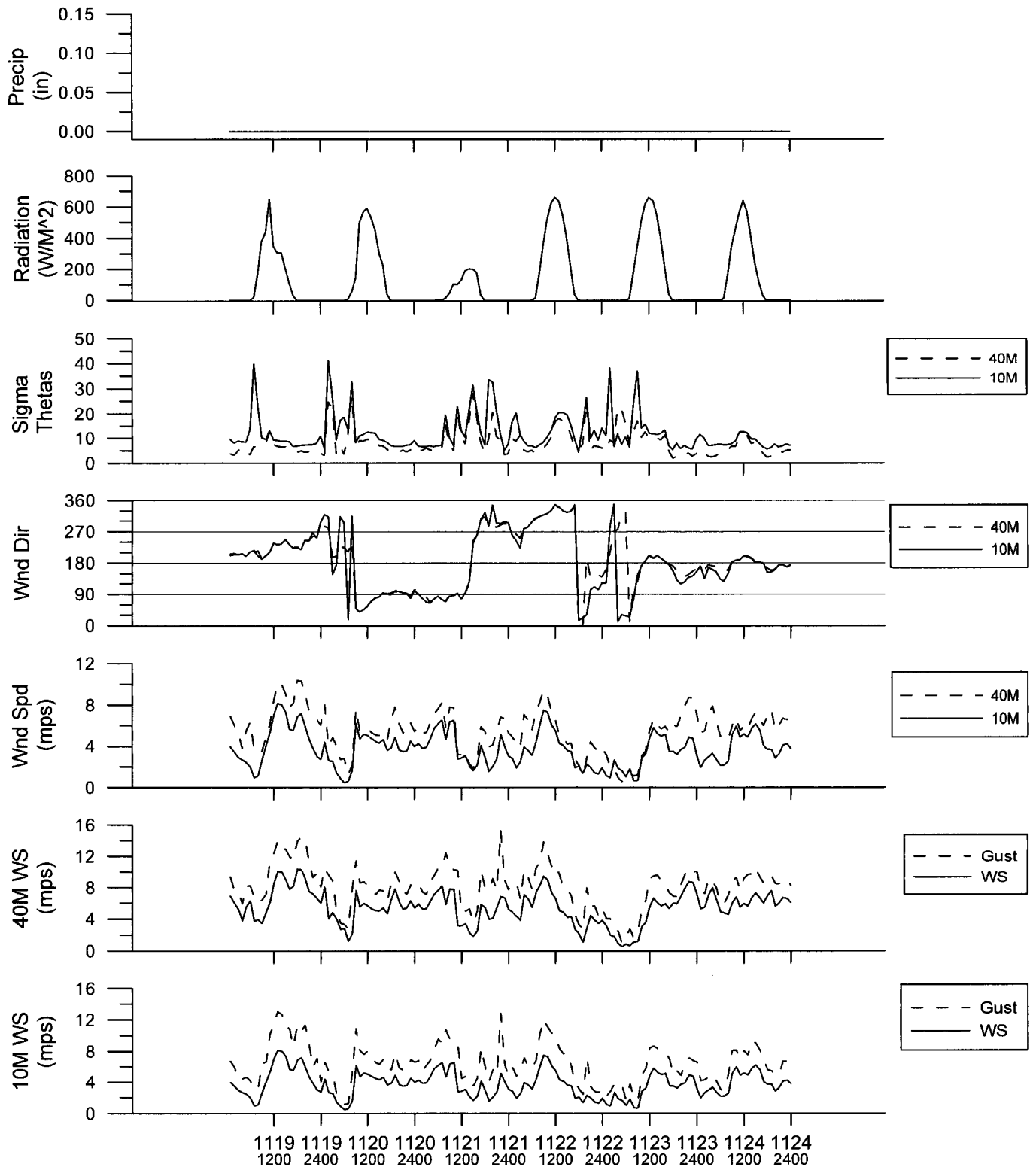
2011



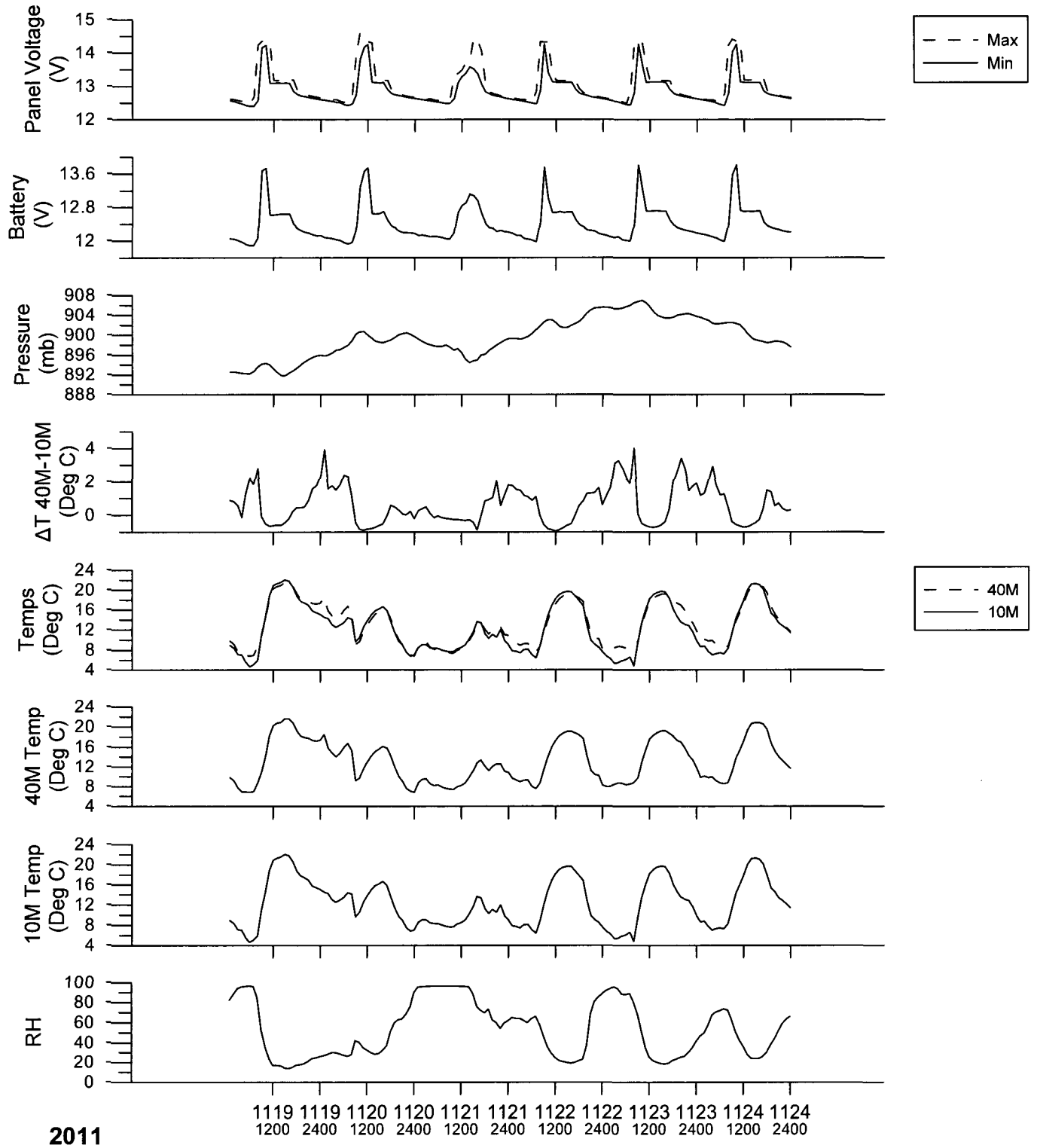
2011



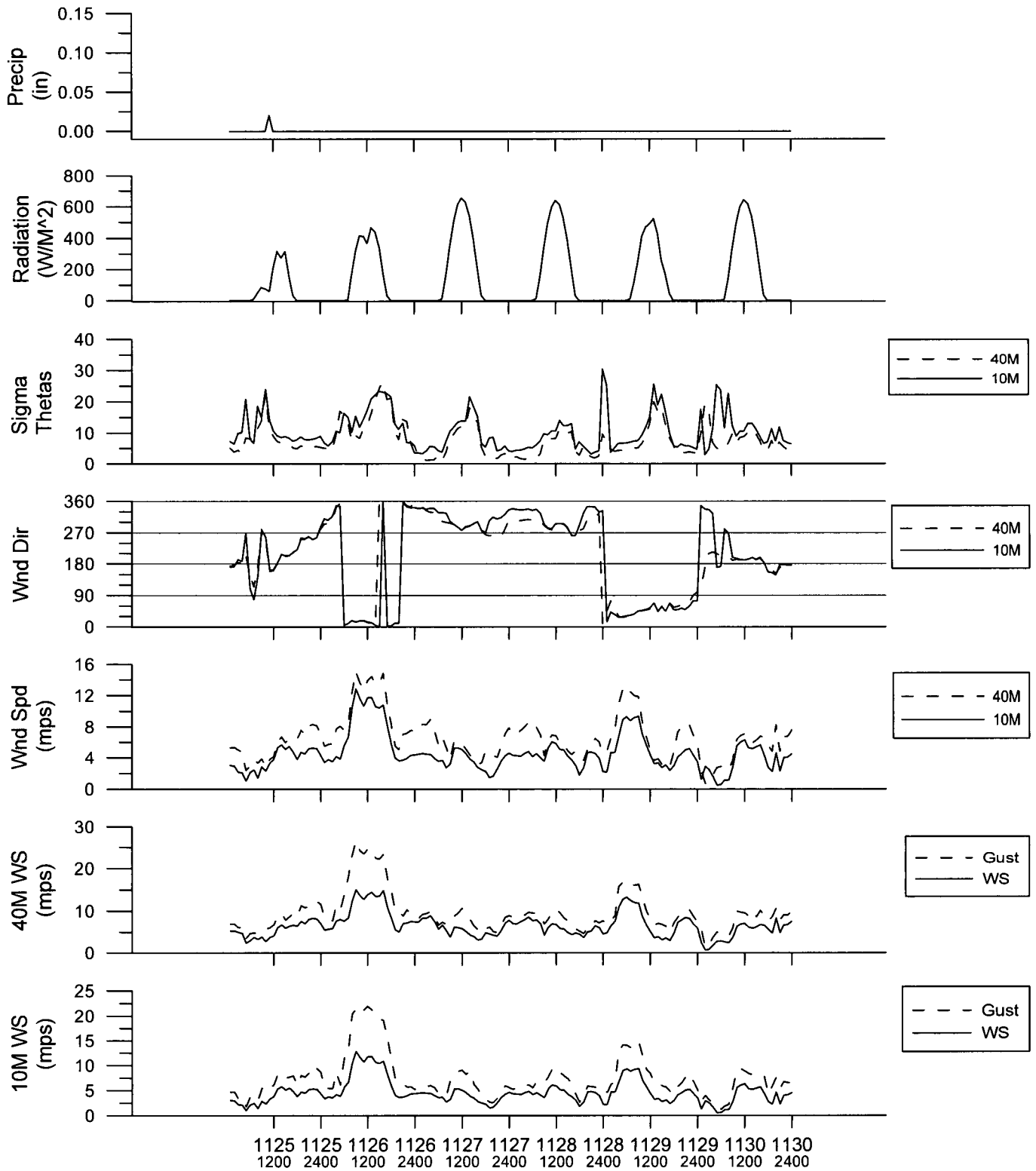
2011



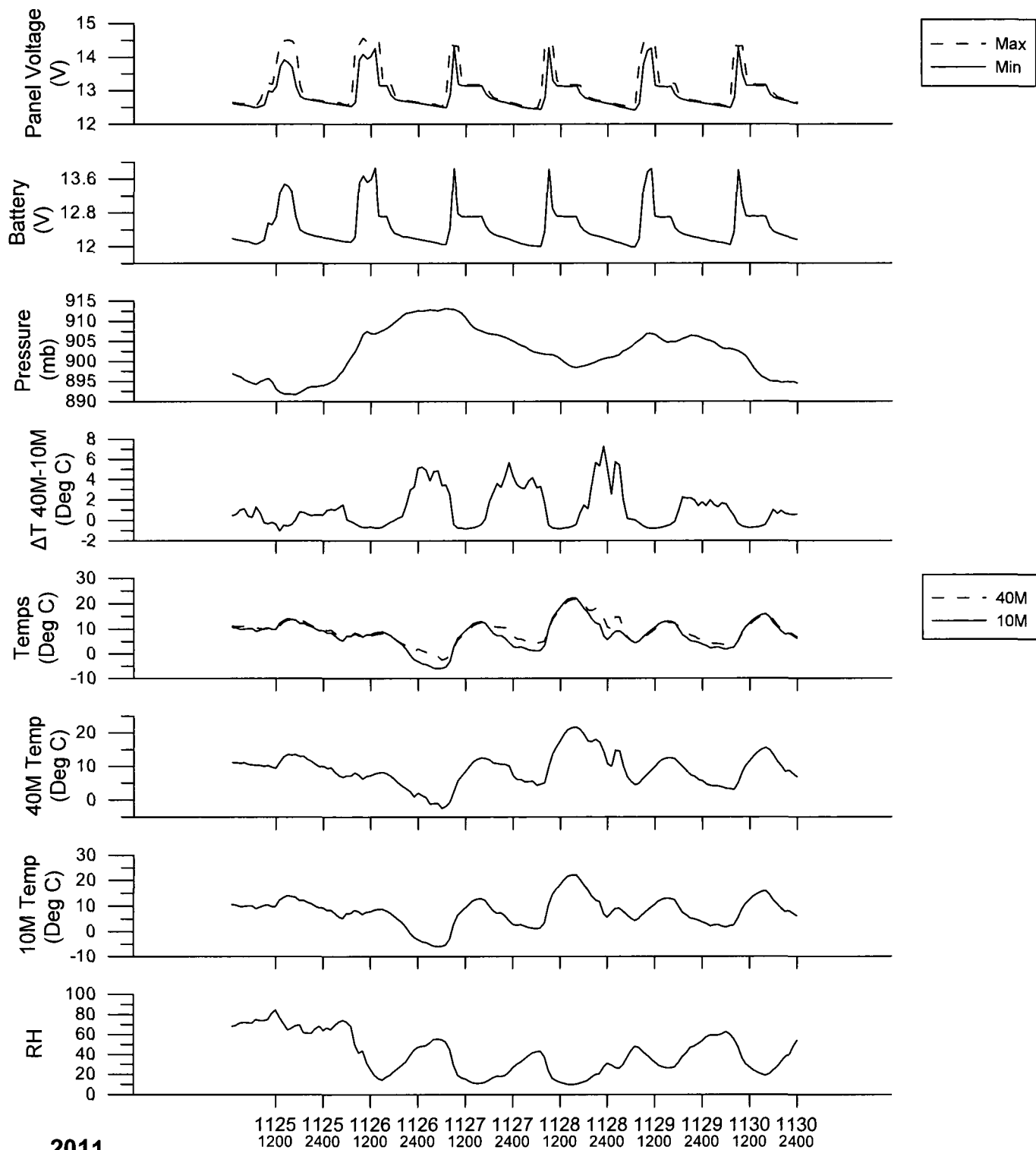
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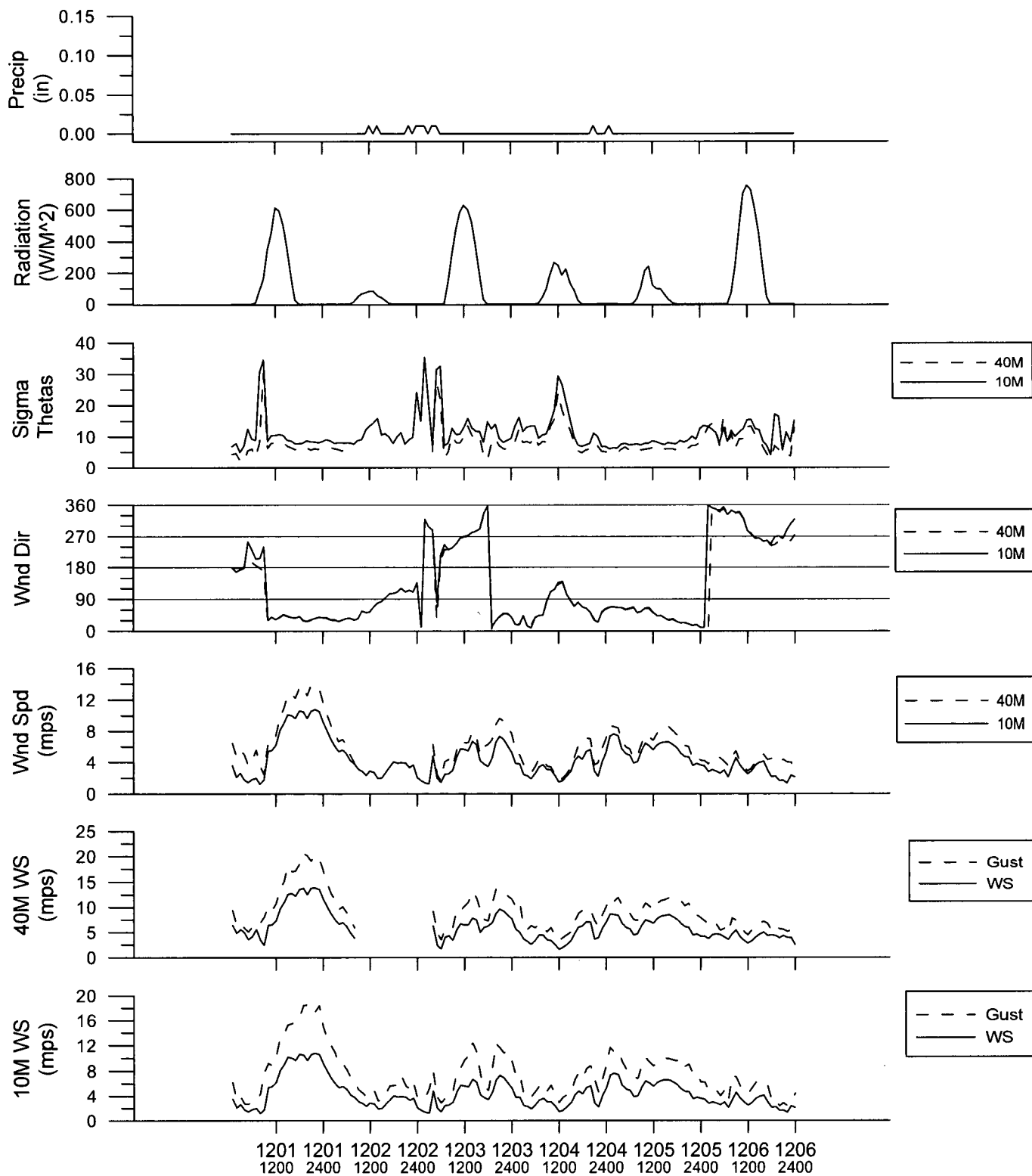
2011



2011

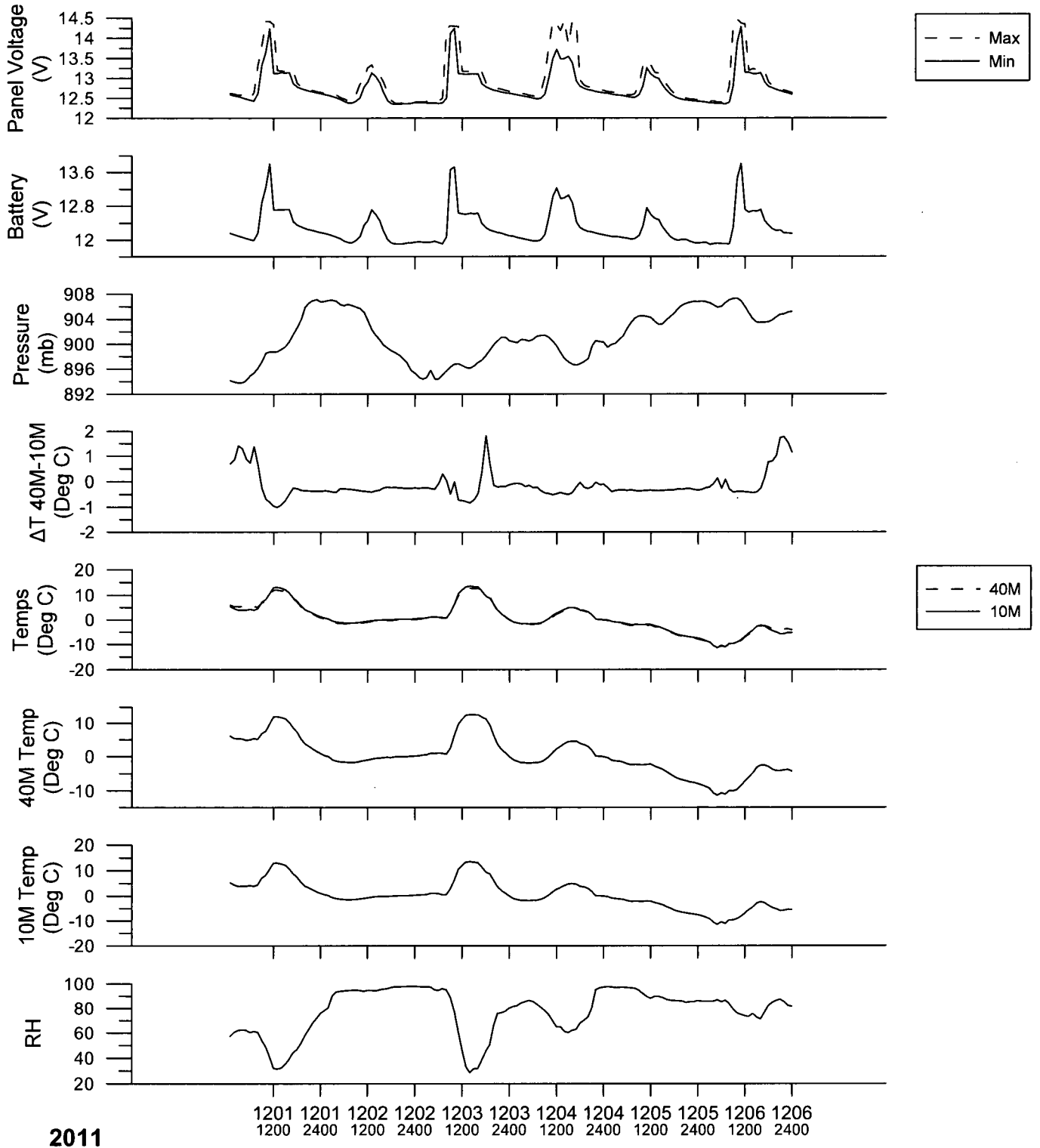


2011

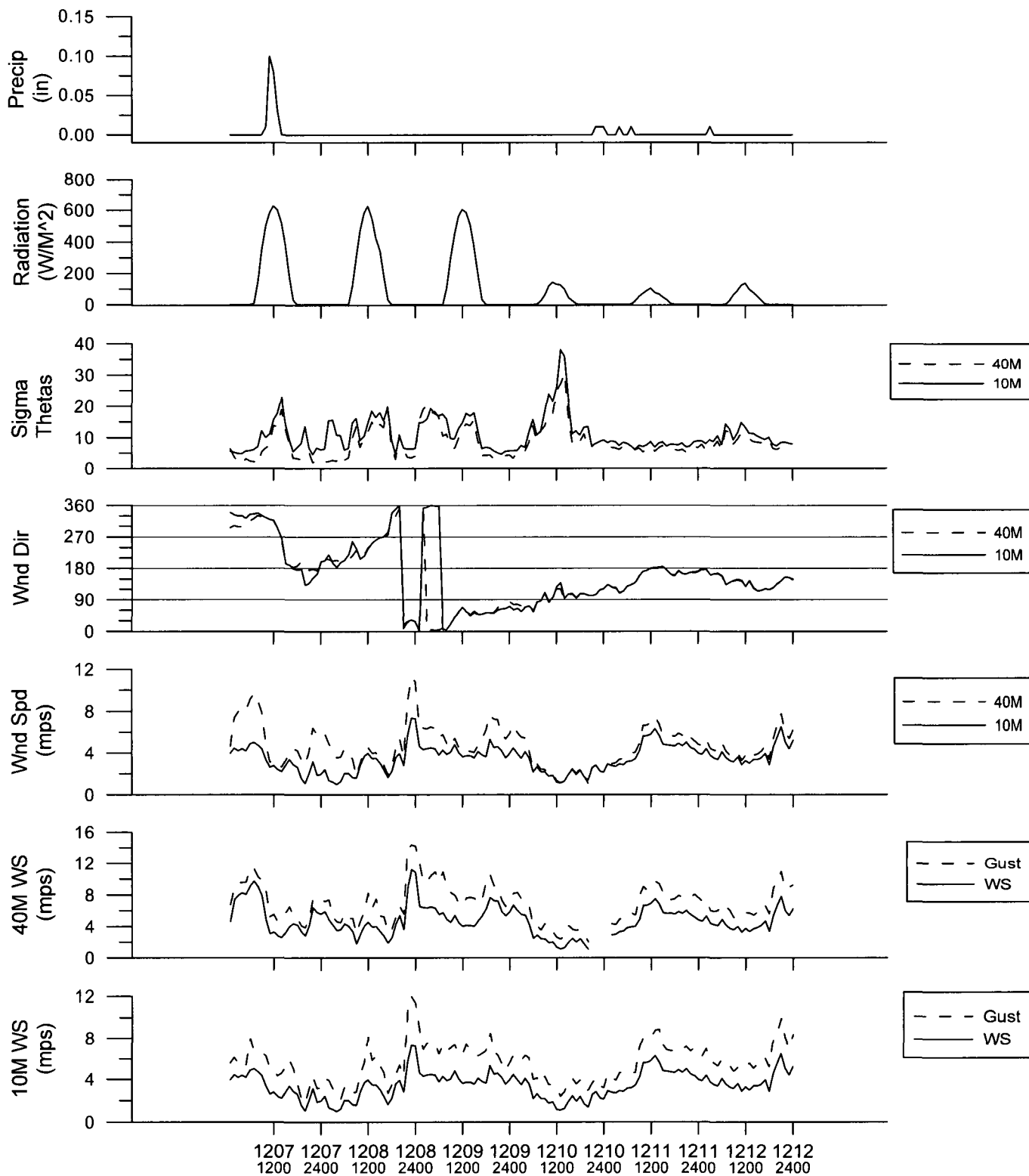


2011

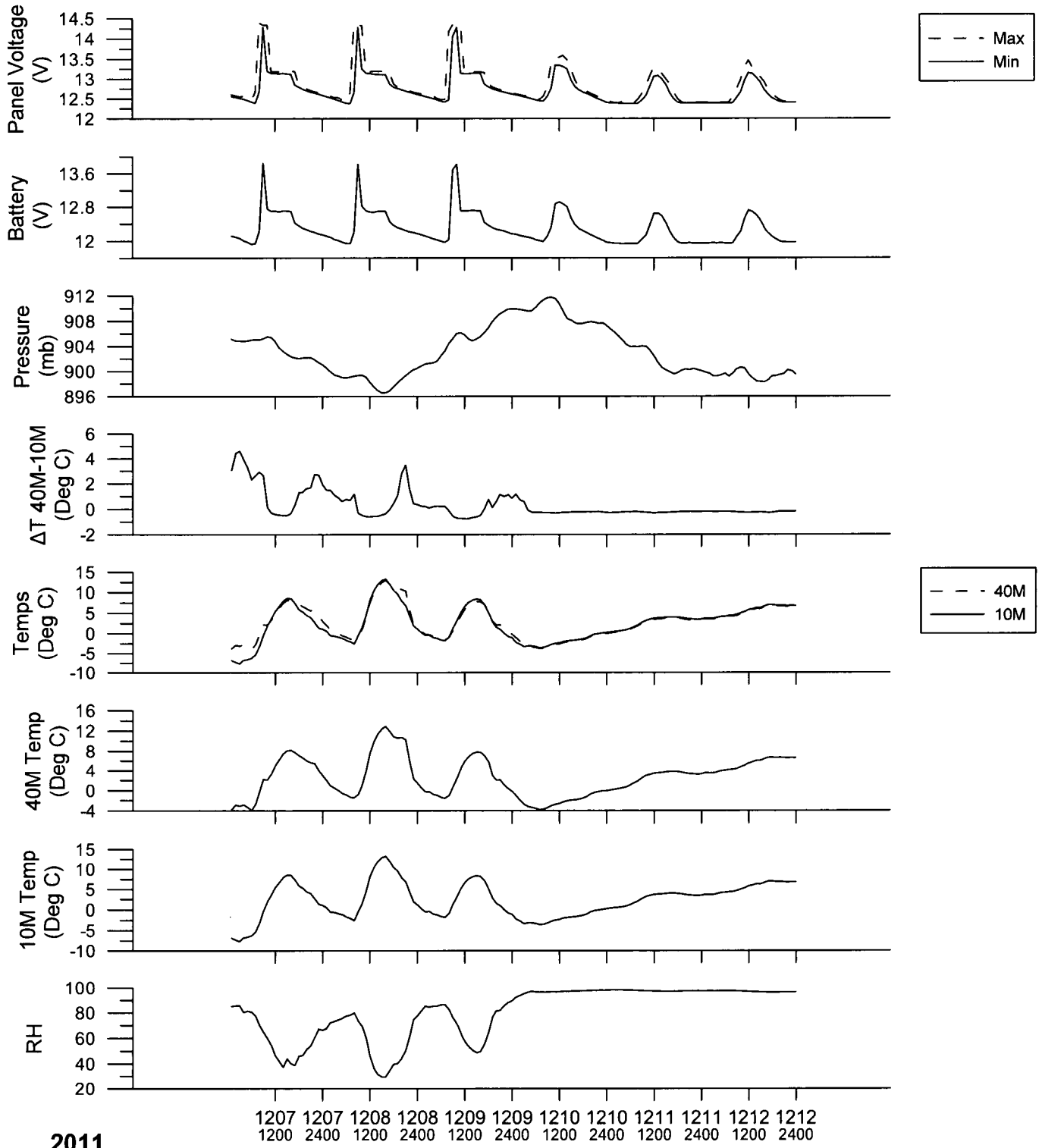


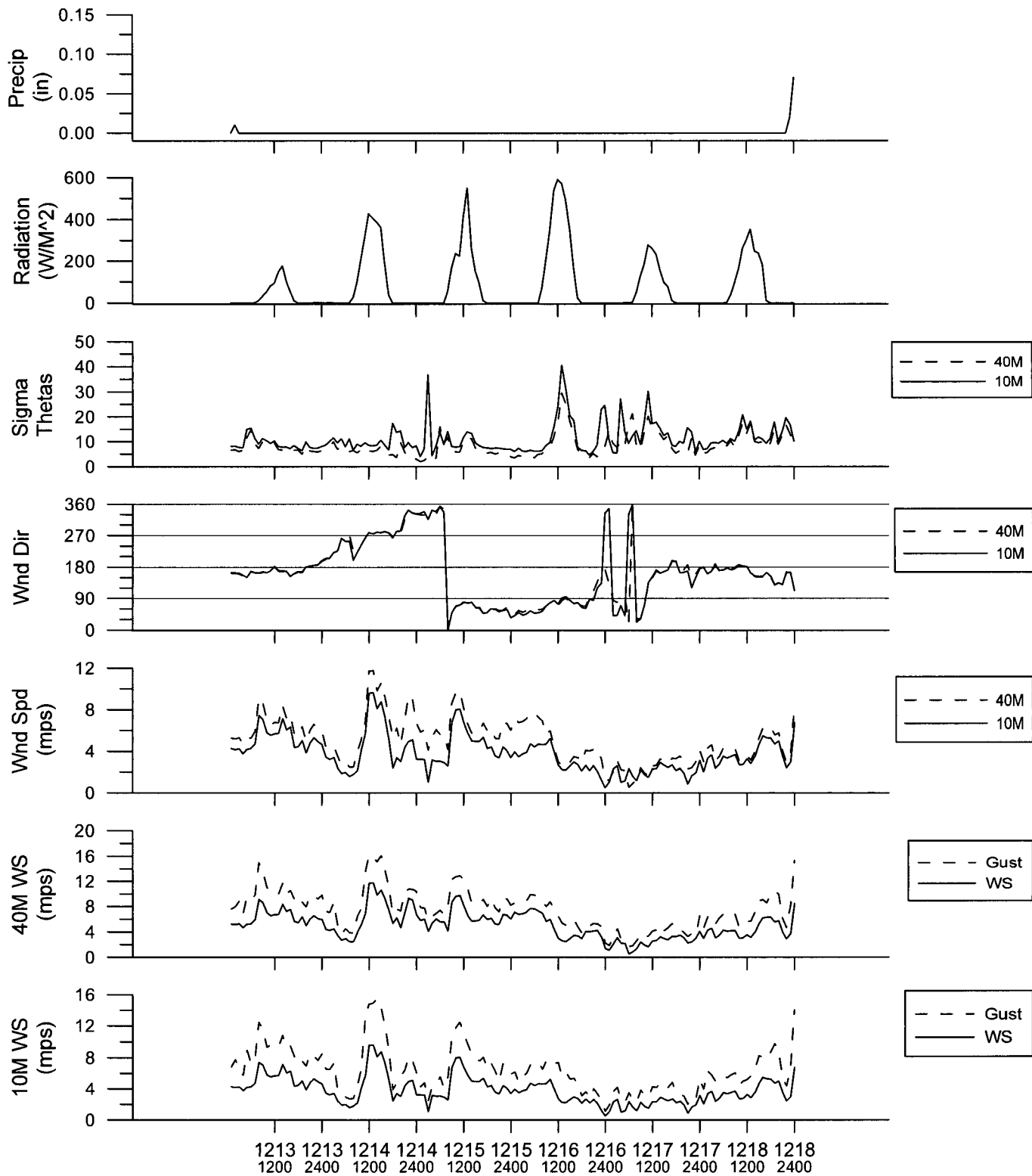


2011

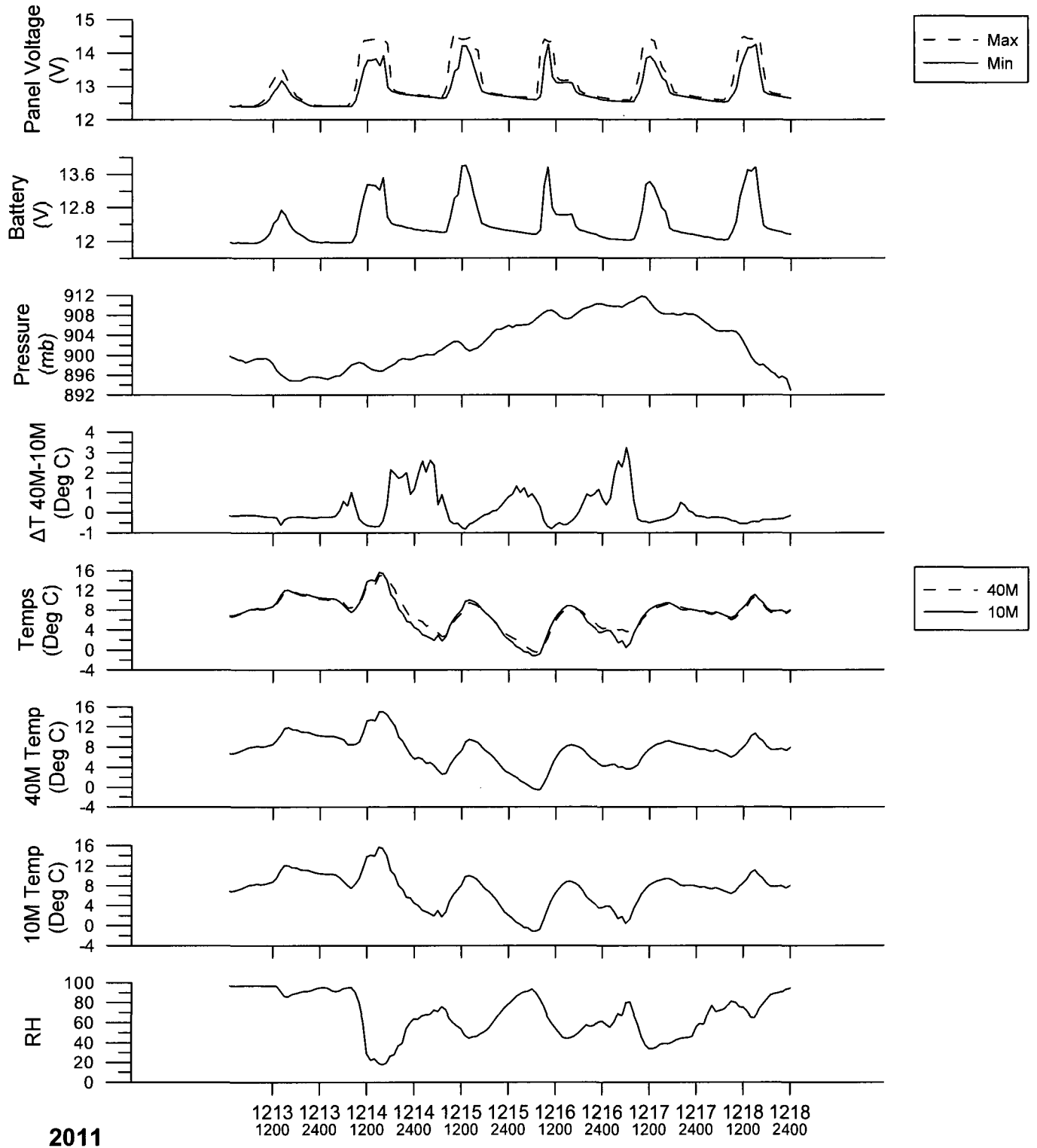


2011

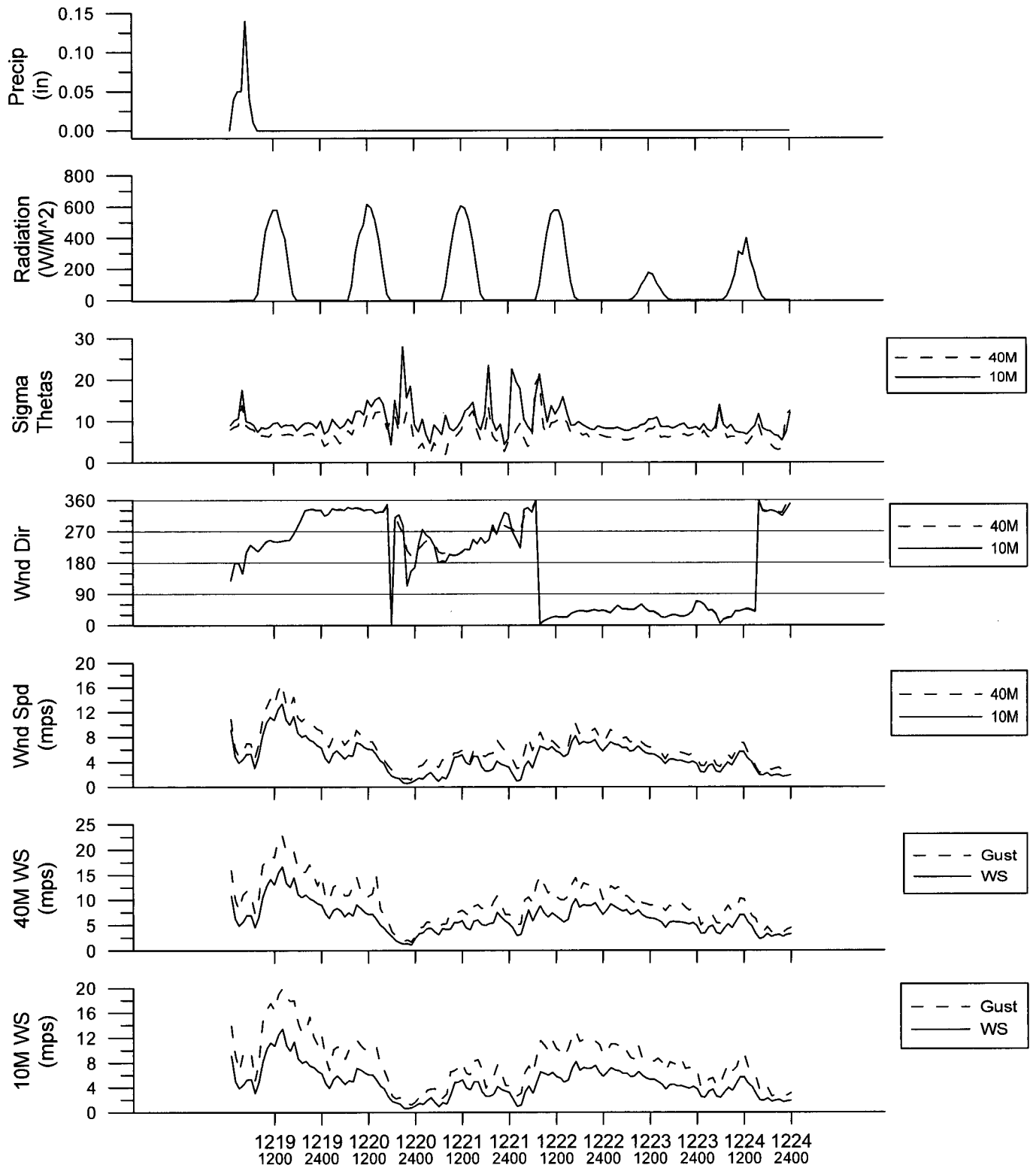


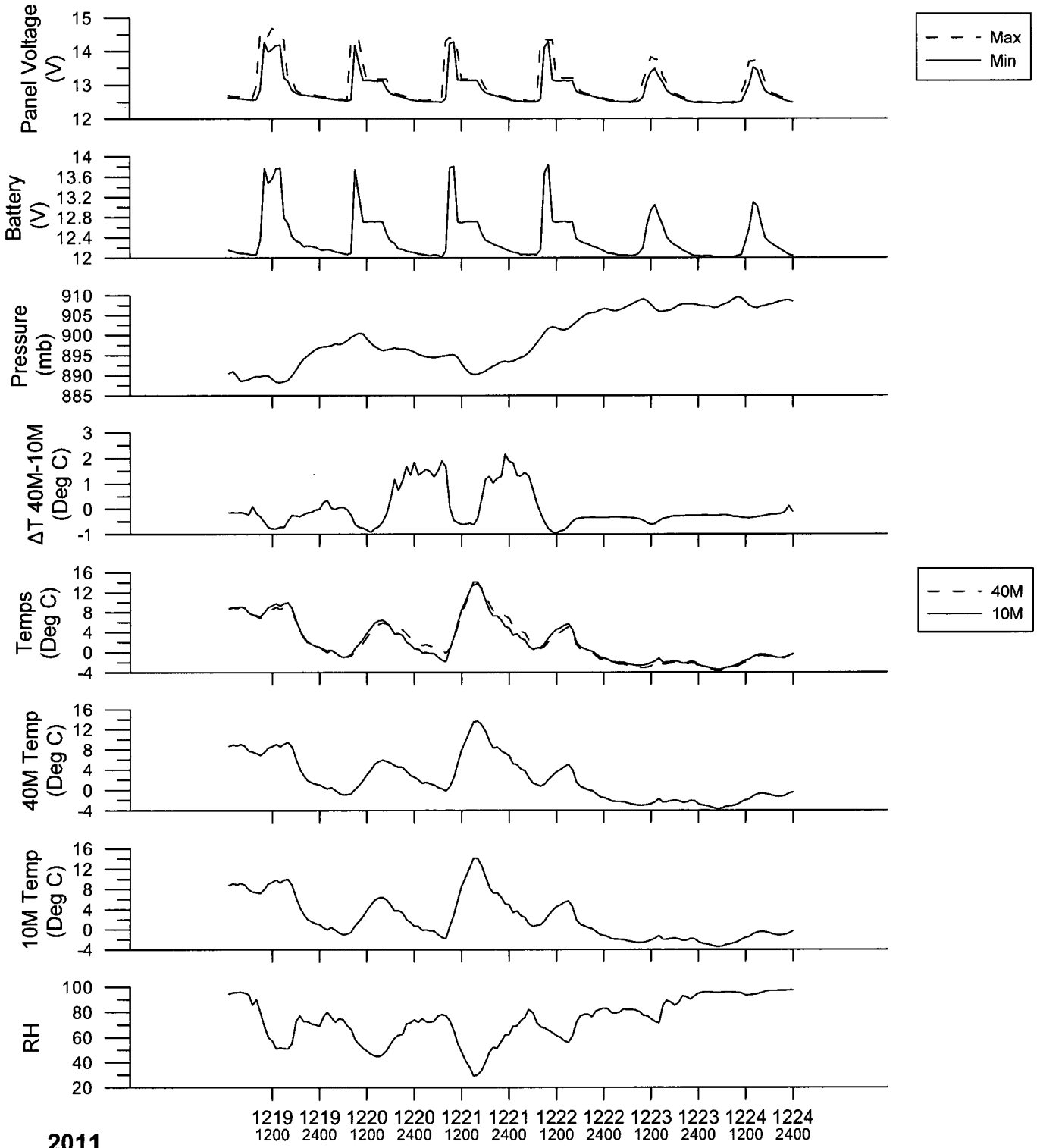


2011

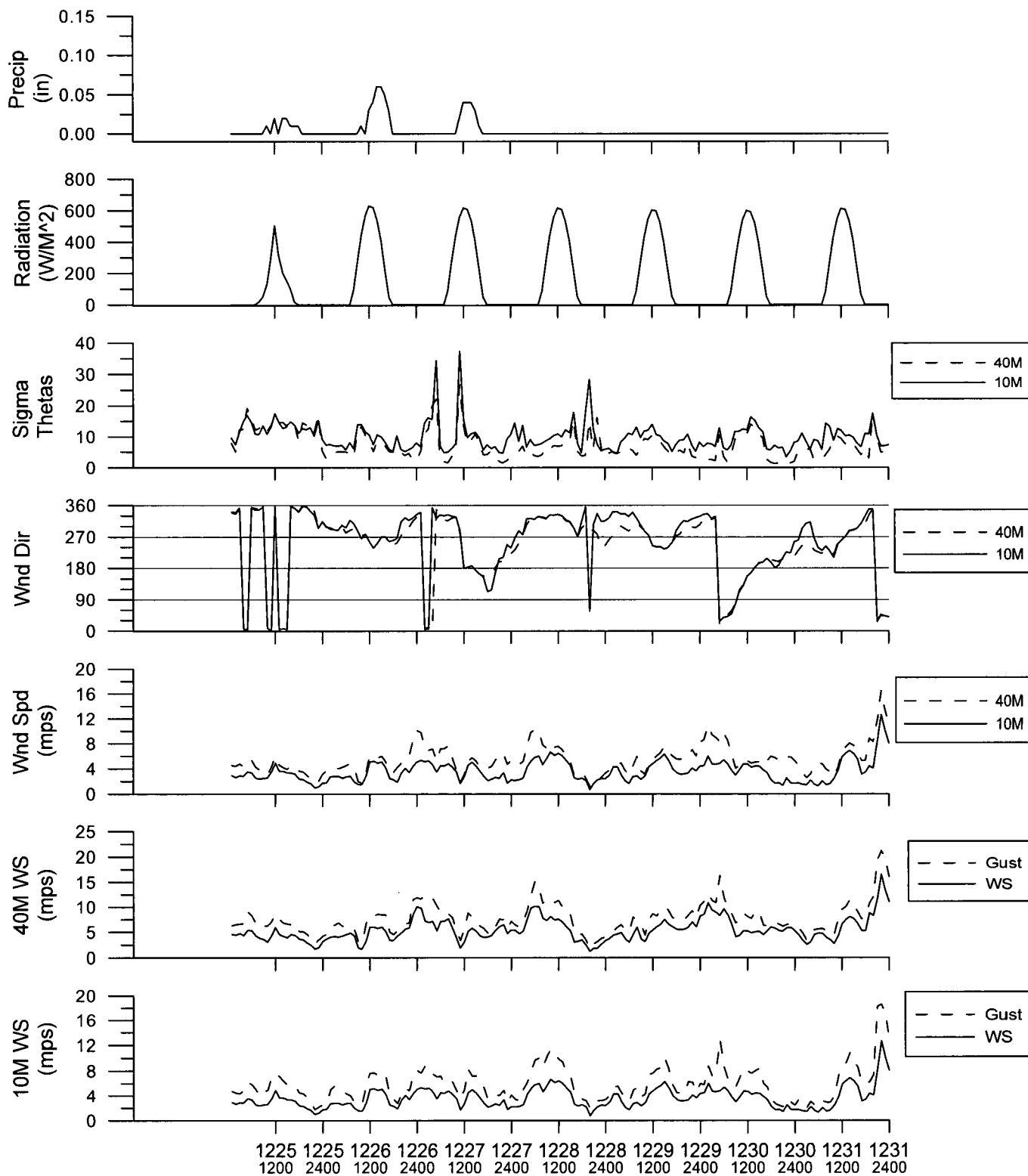


2011



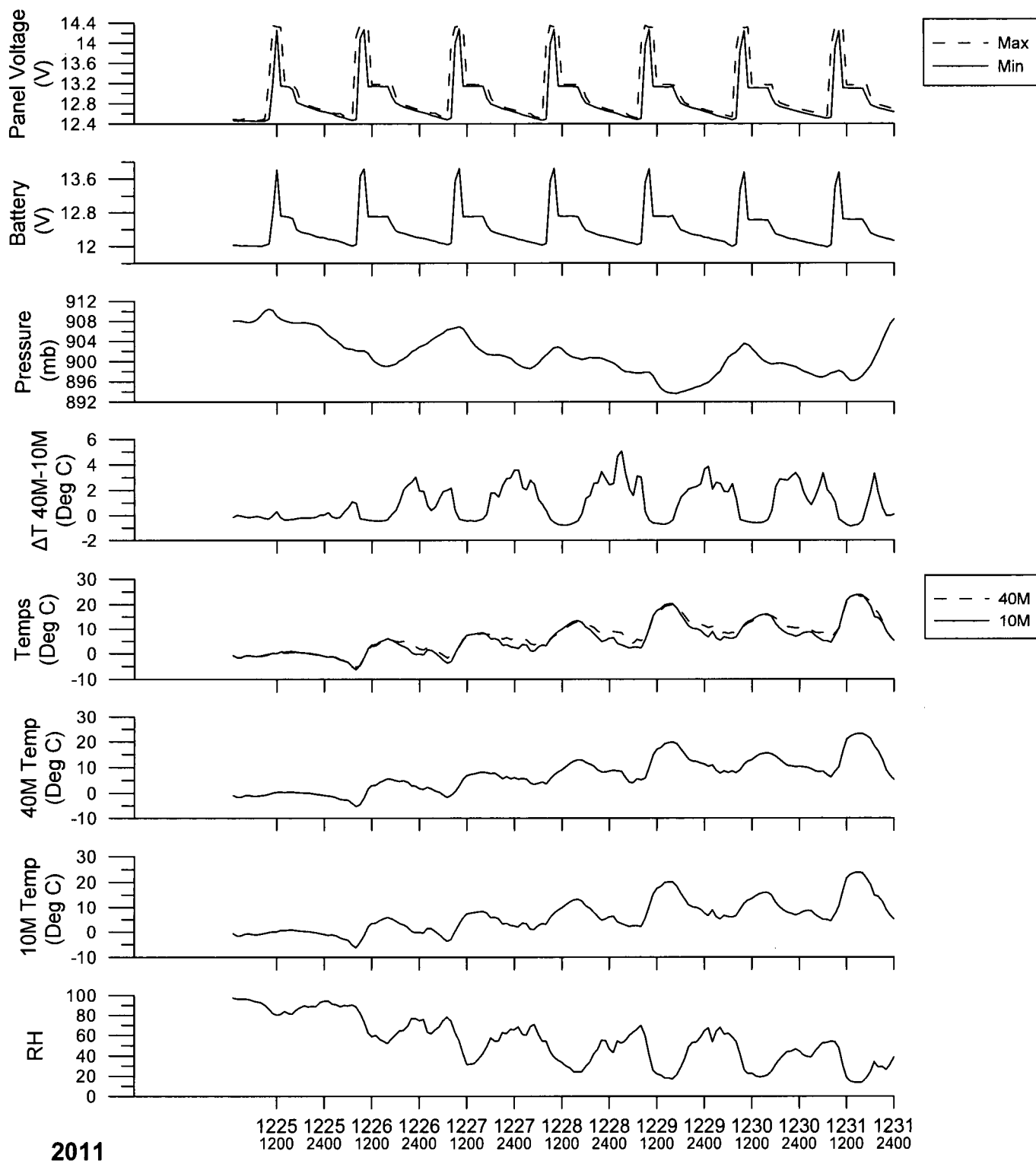


2011



2011





2011

## **Appendix B**

### **Wind Information for 10- and 40-Meter Levels for October through December 2011**

- B.1 Hourly Average Wind Speed/Direction**
- B.2 Joint Frequency of Occurrence Distributions of Wind Speeds and Directions**
- B.3 Wind Gust**

**Appendix B.1**  
**Hourly Average Wind Speed/Direction**

National Enrichment Facility

10M Wind Speed and Direction in mps for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	119/01.4	069/00.6	084/01.5	102/01.8	123/01.9	128/02.7	137/02.5	129/03.3	147/03.9	170/04.2	174/04.4	173/04.2	189/04.0
02	118/02.9	116/02.9	107/02.7	116/02.9	129/02.6	107/02.7	113/03.2	161/03.3	188/03.8	189/04.2	192/04.4	185/04.0	172/04.2
03	164/01.7	161/01.3	160/01.5	155/02.6	160/02.2	161/01.8	161/02.6	181/04.5	190/04.5	171/05.9	150/06.6	143/05.9	148/06.2
04	152/03.5	143/04.0	127/04.4	120/04.4	113/03.9	106/04.5	116/04.2	145/05.6	149/07.0	154/07.4	153/07.1	161/07.3	161/07.4
05	167/05.4	159/04.1	162/03.1	149/02.9	146/02.9	148/03.9	153/04.3	178/06.9	182/08.7	182/09.6	186/09.0	185/08.0	192/07.2
06	178/05.7	173/04.9	177/04.3	182/04.3	175/05.0	173/04.8	174/05.1	178/06.4	173/07.0	173/07.6	174/09.4	180/09.5	184/09.0
07	179/08.8	183/07.2	181/06.6	178/07.2	176/06.5	180/05.5	173/05.5	178/07.6	179/07.9	180/07.5	181/06.8	179/06.6	176/06.2
08	227/06.1	292/06.0	300/04.1	006/03.4	027/04.3	013/03.4	360/04.0	023/03.7	041/04.4	027/03.6	015/03.1	306/02.8	285/03.0
09	295/01.2	052/01.9	041/04.8	051/04.7	037/03.2	018/02.6	021/02.6	028/03.2	014/02.5	049/02.7	089/02.9	054/02.5	086/03.4
10	129/05.4	129/04.3	134/04.3	146/04.1	148/03.9	160/03.3	166/03.3	175/02.8	170/03.2	177/03.2	160/03.4	161/03.7	163/03.8
11	125/03.7	133/03.5	117/03.1	093/02.9	116/03.1	177/04.4	179/05.4	186/05.6	197/04.5	200/04.3	207/04.8	210/04.7	225/05.0
12	275/01.5	299/02.4	279/01.8	329/03.2	334/04.8	329/04.9	343/05.5	341/05.8	349/06.0	009/05.2	027/06.1	027/05.3	010/04.1
13	286/01.4	325/00.6	316/00.6	111/01.4	097/01.9	081/04.1	061/04.7	087/04.9	121/04.2	165/04.7	173/05.2	187/05.5	200/05.4
14	167/02.7	192/02.6	204/01.9	206/01.5	246/01.3	275/01.7	268/01.7	222/02.3	212/02.9	221/03.1	232/02.8	267/03.2	257/03.8
15	039/04.1	034/04.6	032/04.9	030/05.6	031/06.0	358/04.6	010/04.0	022/04.1	038/03.6	053/03.7	050/04.0	071/03.2	093/02.6
16	151/02.9	148/02.6	147/02.4	174/01.1	212/00.7	189/01.5	209/01.5	225/02.4	205/04.0	202/03.4	202/03.1	207/04.2	216/04.7
17	187/01.8	202/02.0	252/01.8	267/01.4	269/01.8	286/02.6	308/02.6	301/01.6	248/02.1	270/04.6	290/06.5	298/07.4	289/08.0
18	016/07.4	013/06.0	002/04.1	002/03.4	353/03.3	344/02.9	325/02.8	346/05.1	356/04.8	360/04.6	015/06.1	020/06.4	019/06.4
19	030/02.6	009/02.1	015/01.7	359/02.3	348/02.9	329/03.5	335/03.8	299/02.5	233/02.5	219/03.0	201/02.6	218/03.2	202/03.0
20	132/03.3	129/02.4	133/02.3	166/01.7	168/01.8	195/01.3	226/01.7	212/03.7	215/04.3	243/04.8	268/05.4	303/07.2	296/06.9
21	050/05.6	048/05.3	015/01.9	022/01.7	001/02.6	005/03.2	346/03.1	004/02.6	004/02.0	049/02.4	069/02.3	076/02.1	131/01.9
22	104/02.0	212/01.6	344/03.5	353/03.3	344/02.8	341/04.6	341/04.7	330/04.1	325/03.9	326/04.9	311/05.1	288/06.2	289/06.6
23	044/05.8	043/06.3	043/06.3	040/04.2	003/02.5	359/02.6	345/03.7	321/04.0	336/02.4	056/01.4	100/02.5	138/02.0	150/02.4
24	119/04.4	128/03.3	112/03.0	098/03.5	095/03.6	099/04.0	114/04.5	134/05.1	159/05.8	178/07.0	191/07.1	181/07.7	180/07.5
25	192/04.6	192/03.9	222/02.5	203/01.8	181/01.7	186/01.7	245/01.4	223/02.2	212/02.7	213/03.8	237/04.8	259/05.4	251/05.1
26	178/02.1	188/02.0	229/00.8	230/00.9	182/00.8	302/01.9	282/02.2	008/04.8	033/07.4	039/06.8	046/06.0	056/05.0	064/05.0
27	049/10.9	039/11.2	040/10.2	029/07.8	033/08.1	017/04.7	028/07.0	025/04.6	011/05.0	011/05.3	006/05.2	012/05.7	022/06.1
28	353/01.9	347/01.9	324/02.1	313/02.6	016/02.2	039/02.5	031/02.9	005/01.9	010/02.5	023/03.3	025/03.3	027/02.9	018/02.3
29	001/02.1	026/01.7	065/02.0	108/01.1	112/01.0	159/01.1	170/01.5	197/02.6	202/04.4	190/05.9	199/06.3	205/06.4	203/06.5
30	253/01.7	274/02.8	270/02.9	291/01.7	332/02.8	329/04.0	337/04.1	002/04.7	041/10.7	047/09.2	043/06.9	045/05.3	033/03.9
31	084/02.7	080/01.2	070/01.5	025/01.7	345/02.1	346/02.5	341/02.1	338/01.5	168/02.4	198/02.5	204/03.2	204/03.5	191/04.3
MEAN	132/03.8	117/03.5	095/03.2	092/03.0	085/03.0	045/03.2	350/03.5	274/04.0	181/04.5	170/04.8	169/05.0	183/05.1	189/05.0
MX SPD	049/10.9	039/11.2	040/10.2	029/07.8	033/08.1	180/05.5	028/07.0	178/07.6	041/10.7	182/09.6	174/09.4	180/09.5	184/09.0
MN SPD	295/01.2	069/00.6	316/00.6	230/00.9	212/00.7	159/01.1	245/01.4	338/01.5	004/02.0	056/01.4	069/02.3	138/02.0	131/01.9

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M Wind Speed and Direction in mps for OCTOBER, 2011

PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	167/03.9	161/04.3	174/03.9	159/04.3	148/03.7	144/03.7	127/02.8	118/03.1	122/02.9	149/02.0	123/02.4	140/03.1	174/04.4	069/00.6
02	165/04.2	169/04.5	170/04.2	154/04.5	131/04.3	124/04.3	140/04.3	147/04.0	154/04.0	174/03.1	169/02.2	150/03.6	169/04.5	169/02.2
03	141/05.9	152/06.3	141/06.3	129/06.3	129/04.7	129/03.7	132/04.1	148/03.9	149/03.4	151/03.3	153/03.4	152/04.1	150/06.6	161/01.3
04	150/06.5	150/07.2	148/07.4	148/07.3	143/06.6	148/05.5	167/04.3	171/06.1	150/08.0	156/07.2	164/06.6	146/06.0	150/08.0	152/03.5
05	200/06.7	198/06.5	187/05.8	171/06.1	160/05.8	154/06.8	156/07.7	162/07.9	167/07.3	173/06.8	177/05.6	171/06.2	182/09.6	149/02.9
06	185/08.6	176/09.0	165/10.0	165/11.6	170/10.3	171/09.7	166/09.2	167/09.9	165/10.0	168/10.5	168/10.6	173/08.0	165/11.6	177/04.3
07	177/06.7	166/07.4	161/08.8	151/10.3	152/09.6	153/07.6	164/09.3	175/09.8	168/10.9	173/11.1	201/06.9	174/07.8	173/11.1	180/05.5
08	285/02.8	181/02.4	099/01.6	134/02.2	114/06.5	101/06.7	075/05.6	062/03.3	139/02.8	049/02.1	143/02.4	038/03.8	101/06.7	099/01.6
09	137/04.2	073/03.9	160/03.0	139/01.7	109/02.1	101/03.2	085/03.5	086/04.3	078/04.1	091/05.3	110/05.5	071/03.3	110/05.5	295/01.2
10	163/03.7	151/03.8	158/03.8	148/04.7	140/05.3	136/05.4	127/04.7	126/04.3	114/03.9	129/04.9	127/04.6	147/04.1	129/05.4	175/02.8
11	239/05.4	266/05.8	243/05.3	249/05.5	279/03.1	163/01.1	164/01.7	186/03.6	187/03.0	181/01.9	213/01.8	190/03.9	266/05.8	163/01.1
12	358/03.9	356/04.5	349/04.1	002/03.4	015/02.9	031/03.8	044/04.4	051/04.9	072/05.0	085/04.3	094/03.5	003/04.2	027/06.1	275/01.5
13	203/05.8	200/05.8	200/06.0	191/05.7	170/03.7	153/04.1	150/04.0	152/03.5	164/02.4	179/03.0	181/02.6	163/03.8	200/06.0	325/00.6
14	289/03.7	278/03.4	275/02.8	237/02.5	200/02.1	177/00.9	349/02.2	189/02.8	070/03.7	038/04.1	052/04.0	234/02.7	038/04.1	177/00.9
15	108/03.0	140/03.5	152/03.8	140/03.8	130/03.6	121/03.8	128/04.0	143/03.9	153/03.8	176/01.9	164/02.0	085/03.8	031/06.0	176/01.9
16	223/03.6	242/04.4	239/03.1	233/02.8	231/01.7	198/01.5	187/02.5	188/03.2	188/02.5	186/02.7	181/02.4	200/02.7	216/04.7	212/00.7
17	293/08.7	289/08.3	317/09.1	329/10.5	005/10.8	029/11.1	031/10.9	033/10.6	030/06.8	015/04.9	014/05.0	307/05.9	029/11.1	267/01.4
18	020/06.3	018/05.8	015/05.2	018/04.6	024/03.0	032/03.1	045/03.4	047/03.4	047/03.6	040/02.6	001/02.0	013/04.4	016/07.4	001/02.0
19	208/02.9	192/03.1	186/03.0	178/03.1	154/03.2	132/03.2	137/04.3	140/05.0	140/04.7	136/03.1	126/03.2	180/03.1	140/05.0	015/01.7
20	305/07.3	290/07.0	292/05.8	281/03.6	290/02.2	326/02.3	332/02.8	060/04.8	073/05.3	053/04.4	054/05.0	257/04.1	305/07.3	195/01.3
21	158/02.8	203/02.5	165/03.2	153/03.6	122/03.4	086/04.3	099/04.8	103/04.8	110/04.9	121/04.4	067/02.2	074/03.2	050/05.6	022/01.7
22	292/06.5	301/07.0	305/06.6	321/03.8	016/03.1	029/03.7	032/03.7	010/03.2	036/05.0	040/05.7	040/05.9	342/04.5	301/07.0	212/01.6
23	134/02.1	176/02.2	163/02.6	149/02.7	109/02.0	097/02.6	113/03.8	122/03.8	124/04.7	121/04.6	125/05.1	091/03.4	043/06.3	056/01.4
24	174/07.5	174/07.6	174/07.4	169/06.3	153/04.6	142/04.9	149/04.2	162/05.6	172/06.6	179/05.4	178/04.6	151/05.5	181/07.7	112/03.0
25	235/04.8	246/06.8	263/06.1	258/03.9	245/02.6	247/01.7	265/03.5	276/04.0	177/03.6	182/04.3	191/03.5	225/03.6	246/06.8	245/01.4
26	077/05.3	083/05.4	080/06.2	077/07.1	074/06.6	082/09.0	082/10.3	067/08.9	044/09.1	047/09.5	053/11.3	067/05.6	053/11.3	229/00.8
27	028/06.0	023/04.8	033/03.8	025/03.8	019/03.1	019/03.2	018/02.7	030/02.7	019/02.8	003/02.9	021/02.9	023/05.4	039/11.2	018/02.7
28	034/02.0	011/02.1	348/01.9	028/02.2	047/02.0	060/02.1	062/02.4	103/01.4	285/00.5	293/01.3	343/03.6	012/02.2	343/03.6	285/00.5
29	205/06.5	208/06.6	209/05.3	200/04.5	190/03.5	206/03.0	168/01.4	173/01.9	192/02.3	209/01.8	224/01.5	186/03.4	208/06.6	112/01.0
30	024/04.0	035/04.3	034/04.1	039/03.8	030/03.3	038/04.2	044/04.5	050/04.1	057/04.4	072/03.8	077/03.0	021/04.3	041/10.7	253/01.7
31	200/05.0	195/05.3	190/05.3	186/04.4	165/03.1	159/03.7	168/02.8	172/02.6	165/02.7	172/03.5	168/03.3	170/03.0	195/05.3	080/01.2
MEAN	189/05.0	191/05.2	183/05.0	163/04.9	131/04.3	119/04.3	114/04.5	124/04.7	127/04.7	131/04.4	132/04.1	140/04.3		
MX SPD	293/08.7	176/09.0	165/10.0	165/11.6	005/10.8	029/11.1	031/10.9	033/10.6	168/10.9	173/11.1	053/11.3		165/11.6	
MN SPD	034/02.0	011/02.1	099/01.6	139/01.7	231/01.7	177/00.9	168/01.4	103/01.4	285/00.5	293/01.3	224/01.5			285/00.5

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 140/04.3 MAXIMUM WIND SPEED WAS 11.6 mps AT 165 DEGREES ON 10/ 6 AT 1700

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

## National Enrichment Facility

10M Wind Speed and Direction in mps for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	169/03.1	175/03.6	180/03.1	184/02.8	183/01.8	198/01.0	263/01.4	229/02.0	206/03.7	207/03.7	208/03.4	206/03.9	208/05.3
02	175/03.7	181/03.0	190/02.4	188/02.5	186/02.0	177/02.3	213/01.8	227/01.9	231/02.6	332/07.1	013/09.0	007/09.7	002/10.8
03	344/03.0	330/03.3	333/03.2	346/03.8	348/03.9	342/03.5	334/03.3	321/02.5	302/02.6	353/01.7	146/01.5	200/01.9	200/02.7
04	127/02.0	130/04.3	123/04.2	116/03.5	120/04.1	101/03.8	115/04.3	141/04.8	165/05.9	165/05.9	160/05.8	158/05.5	163/05.6
05	158/04.8	159/04.7	165/04.0	175/02.8	156/03.1	171/03.1	170/02.9	171/03.9	185/06.7	185/07.0	186/08.3	200/08.4	212/08.9
06	211/02.9	202/02.6	201/02.5	199/01.7	209/01.0	170/01.4	062/01.0	351/01.0	224/02.4	236/03.5	253/04.9	222/05.1	208/05.7
07	074/03.1	089/03.4	112/03.6	169/05.8	176/06.0	213/04.2	230/01.8	138/01.7	192/02.7	185/02.8	177/03.0	189/04.3	207/05.8
08	309/06.0	300/06.6	294/06.4	294/04.0	322/02.4	316/01.6	268/01.5	236/02.2	276/04.2	288/08.5	292/07.4	293/07.4	300/08.0
09	030/04.6	026/04.4	024/06.1	031/07.4	032/06.0	013/02.8	358/02.3	012/03.4	030/04.1	054/04.2	072/04.4	066/04.2	073/04.1
10	040/01.2	001/01.0	021/01.4	334/02.3	355/02.3	337/01.7	338/03.9	322/02.4	272/02.2	249/03.7	241/03.7	225/04.3	218/05.1
11	265/01.5	258/02.5	234/02.3	233/01.7	207/01.6	183/01.0	215/01.0	204/01.2	217/02.0	214/04.5	217/05.4	221/05.1	223/05.7
12	226/03.0	216/02.4	218/02.3	226/02.5	221/01.9	218/03.4	210/03.0	224/02.5	212/04.0	236/05.7	250/07.9	266/10.4	259/10.3
13	242/04.5	231/03.1	255/04.4	253/03.4	228/03.2	212/01.8	242/02.5	221/02.7	215/03.3	257/06.0	243/06.4	246/05.2	252/06.3
14	271/04.1	281/03.4	295/02.3	269/01.9	254/03.3	242/04.4	277/03.7	280/04.0	262/04.3	235/05.5	229/06.6	229/08.4	242/09.3
15	213/01.0	287/01.3	332/03.1	297/01.9	329/03.0	325/03.1	337/02.8	331/02.7	321/05.0	319/06.7	314/05.9	309/05.6	303/05.5
16	345/04.2	002/03.5	018/03.3	358/03.7	351/03.5	360/02.3	341/03.0	326/01.7	356/01.3	239/02.1	335/05.2	329/08.1	343/06.8
17	051/04.0	078/02.8	045/02.7	051/04.8	051/03.6	010/01.5	013/02.1	061/03.3	104/03.9	133/03.9	169/04.7	170/04.4	183/05.4
18	175/03.6	179/03.4	163/02.8	176/02.1	184/01.8	174/02.3	194/02.1	205/02.4	191/05.9	197/05.4	206/05.3	204/06.5	214/07.3
19	205/04.0	208/03.4	204/02.9	207/02.7	198/02.5	212/02.0	216/00.9	201/01.1	191/02.6	201/04.1	211/05.3	236/07.0	233/08.2
20	319/04.4	312/02.6	148/02.5	175/01.4	313/00.9	296/00.5	016/00.6	315/01.6	049/06.2	039/04.7	046/05.2	056/05.0	071/04.7
21	091/04.3	078/03.8	068/03.9	065/04.7	075/05.7	084/06.1	074/06.5	068/04.7	085/06.4	086/06.5	093/02.8	075/02.8	095/03.1
22	258/02.8	244/01.9	223/02.5	278/03.9	282/03.6	296/03.1	309/04.3	313/06.0	318/07.5	322/07.3	330/06.1	348/05.5	341/04.3
23	122/01.1	282/00.9	348/02.7	010/01.9	032/01.6	028/01.0	025/01.8	076/00.7	147/00.7	172/02.8	186/03.2	202/04.8	194/05.8
24	171/01.9	135/02.6	168/03.0	162/03.3	156/02.7	133/02.1	127/02.2	149/02.5	182/05.1	188/05.9	188/04.8	200/05.2	200/04.9
25	171/03.0	173/02.9	192/02.2	187/02.1	268/01.0	109/02.1	078/02.4	144/01.4	280/02.8	256/02.3	162/03.3	163/03.8	183/05.3
26	310/03.4	306/03.8	316/03.5	347/04.2	345/03.8	004/05.6	010/06.7	018/10.5	014/12.8	018/11.6	019/10.7	014/11.8	012/11.8
27	339/04.5	341/04.6	337/04.5	340/04.4	339/03.9	328/03.5	327/03.7	326/02.7	303/03.2	293/05.3	286/05.3	277/05.1	287/04.6
28	339/04.3	336/04.3	335/04.2	336/04.6	337/04.8	334/04.1	336/04.5	327/04.0	295/03.5	284/05.3	281/06.1	296/05.9	296/05.1
29	013/02.1	042/04.7	035/04.7	027/06.7	029/08.9	031/09.3	033/08.8	036/09.2	045/09.4	046/07.0	049/05.7	054/04.4	067/03.2
30	347/01.2	337/02.9	336/02.4	325/01.6	170/00.5	172/00.6	280/01.1	268/01.1	199/02.8	196/05.5	192/06.0	191/06.3	193/05.3
MEAN	255/03.2	270/03.3	268/03.3	265/03.3	270/03.1	269/02.8	317/02.9	280/03.1	236/04.3	236/05.2	219/05.4	227/05.9	228/06.2
MX SPD	309/06.0	300/06.6	294/06.4	031/07.4	029/08.9	031/09.3	033/08.8	018/10.5	014/12.8	018/11.6	019/10.7	014/11.8	012/11.8
MN SPD	213/01.0	282/00.9	021/01.4	175/01.4	170/00.5	296/00.5	016/00.6	076/00.7	147/00.7	353/01.7	146/01.5	200/01.9	200/02.7

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M Wind Speed and Direction in mps for NOVEMBER, 2011

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HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	212/04.8	199/05.8	192/06.6	177/05.2	156/05.5	152/05.6	159/05.4	174/06.3	179/05.5	185/05.3	188/04.3	191/04.1	192/06.6	198/01.0
02	005/10.2	014/09.8	017/09.2	021/08.5	026/06.8	026/07.2	030/05.8	035/04.9	027/04.8	012/02.2	350/03.1	009/05.5	002/10.8	213/01.8
03	200/02.9	179/02.7	174/03.1	163/03.1	148/02.3	156/02.6	158/03.3	146/03.1	142/02.4	141/02.8	163/01.3	190/02.8	348/03.9	163/01.3
04	155/05.9	165/05.7	149/05.6	140/04.7	122/04.4	119/04.4	127/04.2	133/04.6	137/04.2	148/03.9	154/03.9	139/04.6	165/05.9	127/02.0
05	233/10.4	249/10.2	279/09.6	289/07.4	286/07.5	288/06.6	283/04.9	236/04.9	227/05.8	212/04.2	204/04.7	209/06.0	233/10.4	175/02.8
06	218/06.6	219/06.8	220/06.1	209/04.7	181/04.3	155/03.4	128/02.8	107/03.5	101/04.1	104/04.1	098/03.1	188/03.5	219/06.8	209/01.0
07	210/06.2	216/06.0	204/05.3	210/03.2	118/01.9	034/02.1	337/03.6	322/03.7	337/01.9	303/06.5	310/07.1	193/04.0	310/07.1	138/01.7
08	301/08.0	300/07.9	310/07.6	323/06.0	357/03.6	017/04.4	029/05.5	044/06.3	053/06.5	045/06.9	042/06.7	319/05.6	288/08.5	268/01.5
09	061/03.7	063/03.9	050/04.3	053/03.6	048/02.3	037/02.1	042/01.7	056/02.3	021/01.2	359/01.5	002/00.9	037/03.6	031/07.4	002/00.9
10	217/05.2	217/05.3	219/05.3	206/04.3	195/03.3	204/02.6	209/02.2	199/01.8	178/01.3	208/01.6	262/02.3	248/02.9	217/05.3	001/01.0
11	227/05.5	231/05.2	226/05.6	223/03.9	206/02.4	199/03.1	193/02.9	208/03.1	214/03.1	202/02.9	198/03.5	217/03.2	223/05.7	183/01.0
12	253/09.1	265/07.2	256/07.2	260/05.1	255/02.2	235/03.1	238/02.9	240/05.4	243/05.1	251/04.0	233/03.8	238/04.8	266/10.4	221/01.9
13	261/05.5	268/05.5	248/06.1	226/03.9	214/03.5	231/04.3	217/02.6	221/01.9	209/01.2	257/02.7	269/04.0	238/03.9	243/06.4	209/01.2
14	241/09.6	237/08.5	229/07.6	230/06.7	232/03.6	195/03.6	209/02.7	199/02.7	214/02.2	220/01.9	237/01.2	242/04.6	241/09.6	237/01.2
15	294/05.5	284/05.0	285/05.6	290/03.6	268/01.7	294/01.3	310/01.3	332/03.5	340/03.9	335/03.9	344/03.9	310/03.6	319/06.7	213/01.0
16	353/05.9	011/05.8	021/05.4	045/05.7	056/06.1	056/07.4	067/07.6	069/08.1	075/07.4	072/05.7	055/04.3	014/04.9	329/08.1	356/01.3
17	185/06.3	183/06.5	178/05.7	178/04.8	171/03.4	154/02.5	145/02.8	134/02.9	148/02.3	153/02.5	167/02.6	130/03.7	183/06.5	010/01.5
18	217/06.4	234/08.4	227/08.7	231/06.8	224/04.0	218/03.3	215/04.9	217/05.0	204/03.5	207/05.2	208/04.5	203/04.6	227/08.7	184/01.8
19	235/08.0	247/07.3	233/05.7	223/05.5	224/06.9	218/07.2	245/06.0	243/04.7	266/03.9	251/03.0	296/02.7	224/04.5	233/08.2	216/00.9
20	079/04.5	083/04.3	094/04.6	091/03.6	089/03.8	098/04.9	099/03.7	095/03.5	093/03.6	078/04.5	099/04.0	066/03.6	049/06.2	296/00.5
21	127/02.1	237/01.6	257/02.2	304/04.1	324/02.9	285/01.5	346/02.0	294/02.7	292/05.1	297/04.0	295/03.1	046/03.9	074/06.5	285/01.5
22	330/04.1	325/03.6	328/03.5	346/01.9	013/02.1	023/01.4	030/02.3	103/01.9	112/01.4	103/01.3	122/01.9	328/03.5	318/07.5	103/01.3
23	201/05.2	193/04.9	185/05.1	174/03.5	157/03.5	131/03.2	120/03.7	125/03.9	139/04.9	142/04.8	155/03.2	146/03.1	194/05.8	076/00.7
24	193/05.8	183/06.2	183/05.6	180/04.1	154/03.7	154/03.7	161/02.8	174/03.3	175/04.1	169/04.3	174/03.8	169/03.9	183/06.2	171/01.9
25	207/05.7	204/05.1	204/05.5	212/04.8	221/03.8	252/04.7	251/04.5	259/05.2	251/05.3	256/05.2	286/04.3	211/03.7	207/05.7	268/01.0
26	005/10.6	360/10.5	357/10.8	002/08.1	002/05.8	011/04.0	011/03.6	355/03.7	344/03.9	341/04.3	342/04.4	356/07.1	014/12.8	310/03.4
27	290/03.8	295/03.5	301/02.8	277/02.5	271/02.3	303/01.5	314/01.7	309/02.5	313/03.6	322/04.2	335/04.6	311/03.7	293/05.3	303/01.5
28	296/05.0	284/04.2	262/03.7	261/03.0	290/01.8	325/02.7	344/04.7	344/04.7	343/04.6	328/03.9	332/02.2	315/04.2	281/06.1	290/01.8
29	043/03.3	057/02.7	045/03.1	067/02.3	048/02.9	049/04.1	053/04.5	050/05.0	059/05.2	075/04.3	074/03.5	047/05.2	045/09.4	013/02.1
30	198/05.2	192/05.4	198/05.7	183/04.3	157/02.7	154/02.2	148/04.6	177/02.3	178/04.0	176/04.1	176/04.5	196/03.4	191/06.3	170/00.5

MEAN	235/06.0	238/05.8	234/05.8	225/04.6	194/03.7	176/03.7	151/03.7	171/03.9	174/03.9	203/03.9	232/03.6	233/04.2		
MX SPD	005/10.6	360/10.5	357/10.8	021/08.5	286/07.5	056/07.4	067/07.6	069/08.1	075/07.4	045/06.9	310/07.1		014/12.8	
MN SPD	127/02.1	237/01.6	257/02.2	346/01.9	268/01.7	294/01.3	310/01.3	199/01.8	021/01.2	103/01.3	002/00.9			296/00.5

POSSIBLE NUMBER OF OBSERVATIONS = 720 ACTUAL NUMBER OF OBSERVATIONS = 720 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 233/04.2 MAXIMUM WIND SPEED WAS 12.8 mps AT 14 DEGREES ON 11/26 AT 900

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M Wind Speed and Direction in mps for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	179/03.5	167/02.1	173/02.6	177/01.8	254/01.4	229/01.8	205/02.0	207/01.2	240/01.7	030/05.4	039/05.5	033/06.2	039/08.0
02	038/08.1	032/07.0	032/06.1	028/05.4	031/05.6	036/05.1	036/04.2	032/03.8	035/03.1	057/02.8	052/02.3	053/02.9	069/02.7
03	010/01.6	319/01.4	297/01.3	288/04.8	081/02.0	217/01.4	246/02.5	232/02.5	237/02.9	247/04.7	265/05.7	270/05.7	272/05.5
04	019/03.8	018/03.8	043/02.5	014/02.3	009/01.9	037/02.6	044/03.4	045/03.7	082/03.1	110/03.1	117/02.4	137/01.5	140/01.7
05	067/07.3	068/07.6	066/07.4	066/05.7	061/05.1	063/04.9	068/03.9	051/04.0	055/05.5	065/06.4	065/06.1	053/05.6	043/06.2
06	010/03.5	358/02.8	351/03.0	348/02.8	339/02.6	350/03.0	332/02.1	344/03.4	338/04.6	340/03.6	320/03.0	286/02.5	277/02.9
07	339/04.0	333/04.4	329/04.2	330/04.4	322/04.2	334/04.9	335/05.0	338/04.7	331/04.4	325/03.3	319/02.6	317/02.8	293/02.4
08	202/02.4	219/01.4	194/01.2	182/01.0	196/01.2	203/02.0	219/02.0	257/01.6	236/01.6	207/02.8	215/03.7	236/04.0	251/03.5
09	001/04.6	351/04.3	354/04.4	360/04.5	358/04.4	358/03.8	006/04.3	004/03.9	019/04.0	039/04.8	055/04.0	068/03.6	054/03.7
10	061/04.5	064/03.9	055/03.5	068/04.1	072/03.6	058/02.2	083/02.6	086/02.2	110/02.2	083/01.8	095/01.9	126/01.2	139/01.1
11	133/02.9	126/02.8	124/02.7	108/02.9	114/02.8	128/03.2	132/03.2	138/03.4	158/04.2	170/05.6	174/05.6	181/05.8	182/06.3
12	178/03.9	175/04.4	161/03.8	165/03.5	166/03.4	158/04.1	133/03.6	139/03.3	146/03.1	149/03.6	146/02.9	127/03.3	145/03.0
13	165/04.3	164/04.2	163/04.2	157/03.7	151/04.2	169/04.3	165/04.7	164/07.4	167/07.1	165/05.8	170/05.5	182/05.7	171/05.7
14	205/03.4	205/03.2	221/03.4	226/02.4	261/01.9	253/02.0	253/01.6	199/01.8	221/02.1	242/04.1	261/05.8	279/09.6	275/09.6
15	334/03.2	339/03.2	316/01.0	342/03.2	339/03.0	352/03.1	337/02.9	001/02.6	047/06.8	068/08.0	071/08.1	080/06.8	077/05.8
16	041/03.9	049/03.5	042/03.7	045/03.9	054/04.7	047/04.4	049/04.7	053/04.6	068/04.7	077/05.2	084/03.9	073/02.7	091/02.2
17	346/01.0	041/02.3	042/02.6	069/01.0	039/01.1	330/02.3	359/01.6	021/01.2	031/02.2	073/01.7	135/01.5	151/02.3	172/02.3
18	181/02.0	161/03.3	168/03.7	190/02.4	171/02.7	172/03.5	178/03.4	173/03.5	179/03.7	188/02.7	184/02.7	183/03.3	163/02.8
19	129/09.1	180/04.9	178/03.9	149/04.4	210/05.3	230/05.4	221/03.0	212/04.9	225/08.2	239/10.3	244/11.2	240/10.7	239/12.5
20	314/04.7	319/03.9	336/05.4	332/05.9	334/05.2	330/04.5	340/05.1	335/05.0	338/07.1	336/06.9	330/06.4	332/06.1	332/06.1
21	233/01.4	275/01.3	258/01.9	251/02.3	228/01.6	180/00.9	185/01.6	184/01.3	204/02.8	201/04.8	203/04.9	210/05.2	218/03.9
22	269/02.1	245/00.9	222/01.1	332/03.2	338/04.2	324/03.0	358/04.9	002/06.5	011/06.3	018/06.0	022/06.4	025/05.8	023/05.5
23	040/06.5	035/07.2	047/06.8	056/06.7	046/06.3	047/06.3	045/05.7	045/05.8	052/06.5	060/05.9	047/05.5	040/05.3	040/05.3
24	067/02.5	059/02.4	043/03.4	043/03.7	031/02.5	004/02.4	017/03.2	020/04.0	023/03.5	041/04.6	040/05.7	044/05.7	048/04.6
25	340/02.9	335/02.6	348/02.9	006/02.8	002/03.5	353/03.4	346/02.5	347/02.4	355/02.5	009/02.6	360/03.5	356/04.9	005/03.6
26	298/01.8	297/02.7	290/02.8	289/02.8	304/02.5	296/02.7	317/02.8	308/02.0	286/01.6	265/01.5	277/02.8	256/05.1	237/05.2
27	340/05.3	005/05.1	006/05.2	353/04.6	321/03.5	332/04.5	330/04.4	333/04.8	329/04.3	326/03.5	288/01.6	180/02.7	183/04.5
28	265/02.2	287/02.3	276/02.5	321/04.2	323/05.1	319/05.8	328/06.0	325/04.6	321/05.6	332/06.6	332/06.1	334/06.4	329/06.1
29	323/03.0	341/04.3	341/04.3	334/03.1	336/02.1	327/01.7	340/02.7	324/02.9	304/02.3	285/02.8	274/04.3	245/04.8	240/05.3
30	334/04.5	335/06.0	322/04.7	328/04.7	026/04.8	038/05.4	041/04.8	048/03.8	076/03.0	117/03.9	132/04.7	157/04.7	167/04.2
31	260/01.7	293/01.6	308/01.4	312/02.2	267/01.6	239/01.3	230/02.0	242/01.4	228/01.6	209/02.4	248/03.8	260/05.7	270/06.4
MEAN	346/03.7	347/03.6	347/03.5	359/03.6	356/03.4	340/03.4	353/03.4	001/03.5	360/03.9	049/04.4	033/04.5	173/04.8	192/04.8
MX SPD	129/09.1	068/07.6	066/07.4	056/06.7	046/06.3	047/06.3	328/06.0	164/07.4	225/08.2	239/10.3	244/11.2	240/10.7	239/12.5
MN SPD	346/01.0	245/00.9	316/01.0	182/01.0	039/01.1	180/00.9	253/01.6	207/01.2	236/01.6	265/01.5	135/01.5	126/01.2	139/01.1

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS



National Enrichment Facility

10M Wind Speed and Direction in mps for DECEMBER, 2011

PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	046/09.0	042/10.1	038/10.0	037/09.6	041/10.6	030/10.5	028/09.7	032/10.6	036/10.8	039/10.6	038/09.2	051/06.4	036/10.8	207/01.2
02	079/01.9	084/02.0	094/02.7	106/03.4	106/04.1	111/03.9	120/04.0	111/03.9	115/03.3	110/03.7	135/02.1	070/03.9	038/08.1	079/01.9
03	281/06.7	285/06.3	291/04.2	334/03.8	357/03.4	011/04.5	028/06.5	041/07.3	050/06.9	050/06.1	040/05.3	311/04.3	041/07.3	297/01.3
04	105/02.2	086/02.8	070/04.1	080/04.8	069/04.4	064/05.4	053/05.7	032/02.9	025/02.2	054/04.1	062/05.2	062/03.3	053/05.7	137/01.5
05	043/06.5	036/06.6	031/06.6	034/06.2	027/05.9	023/05.2	024/04.7	020/04.7	016/03.6	018/03.8	010/03.7	045/05.6	068/07.6	016/03.6
06	265/03.6	264/03.9	256/04.1	258/03.0	247/02.2	269/02.2	271/01.6	262/01.7	286/01.3	305/02.4	318/02.1	306/02.8	338/04.6	286/01.3
07	266/02.2	194/02.8	189/03.4	179/02.9	175/02.6	177/01.6	131/01.1	137/02.0	152/03.1	162/01.9	199/01.9	283/03.2	335/05.0	131/01.1
08	261/03.5	268/03.0	271/02.4	275/01.6	336/02.2	349/03.5	359/03.9	016/02.8	027/05.7	032/07.3	028/07.3	252/03.0	032/07.3	182/01.0
09	046/03.7	056/03.5	047/04.1	048/03.8	052/03.6	052/05.3	051/04.5	060/04.6	063/04.2	064/03.5	070/03.9	035/04.1	052/05.3	056/03.5
10	094/01.3	107/01.9	107/02.4	095/01.9	107/02.4	107/01.7	102/01.4	102/02.5	104/02.8	118/02.2	120/02.1	094/02.4	061/04.5	139/01.1
11	183/05.7	185/04.8	175/04.8	162/04.7	160/04.6	173/04.9	164/04.6	163/05.0	168/04.5	169/04.3	171/04.0	156/04.3	182/06.3	124/02.7
12	124/03.4	115/03.4	117/03.5	121/03.9	118/02.8	124/04.6	136/05.6	144/06.5	155/05.1	154/04.4	149/05.2	144/03.9	144/06.5	118/02.8
13	170/07.1	169/06.1	153/06.3	162/04.4	168/04.5	167/05.0	181/03.9	184/04.8	185/05.3	187/04.9	198/04.7	170/05.2	164/07.4	157/03.7
14	280/08.1	278/08.7	281/07.3	277/05.0	262/02.4	282/03.4	283/03.0	325/04.4	343/05.0	334/05.1	332/03.2	265/04.4	279/09.6	253/01.6
15	079/05.0	064/05.0	064/04.9	047/05.3	048/04.3	060/04.4	058/03.6	052/03.4	055/04.4	058/04.0	035/03.4	036/04.4	071/08.1	316/01.0
16	096/02.2	085/02.6	075/03.0	078/02.7	064/02.1	062/02.6	088/02.1	084/02.6	121/02.1	132/01.2	333/00.5	069/03.2	077/05.2	333/00.5
17	163/02.9	168/02.6	172/02.4	199/02.7	196/02.2	165/02.4	165/01.9	170/00.8	121/01.6	150/01.9	174/03.1	125/02.0	174/03.1	170/00.8
18	155/03.5	154/04.7	154/05.5	165/05.3	155/05.3	129/04.7	135/05.0	129/03.5	167/02.4	166/03.0	113/06.8	163/03.7	113/06.8	181/02.0
19	241/13.4	244/10.8	244/09.9	260/11.3	281/08.6	304/08.0	330/08.3	332/07.6	334/07.3	330/06.6	332/06.3	247/08.0	241/13.4	221/03.0
20	322/05.3	326/04.2	326/03.8	348/02.5	011/01.8	309/01.5	317/01.3	286/00.7	113/00.6	155/00.7	165/01.0	330/04.0	338/07.1	113/00.6
21	216/03.6	246/05.0	233/04.9	251/03.3	235/02.6	245/02.6	287/02.9	260/04.1	296/03.7	324/03.4	317/03.2	237/03.1	210/05.2	180/00.9
22	023/04.8	024/05.2	034/07.1	038/08.2	041/06.8	042/07.2	039/07.1	042/07.1	044/07.6	040/06.4	043/05.8	014/05.4	038/08.2	245/00.9
23	034/04.9	024/04.5	022/03.7	026/04.4	030/04.5	029/04.2	025/04.3	026/04.1	030/03.9	039/04.1	069/03.7	040/05.3	035/07.2	022/03.7
24	045/04.1	040/02.9	359/02.0	327/01.9	326/02.2	330/01.7	327/01.9	321/02.0	314/01.7	331/01.8	349/01.9	014/03.0	040/05.7	330/01.7
25	007/03.6	005/03.4	357/03.4	352/03.2	340/02.4	357/02.3	356/01.9	343/01.7	331/01.0	293/01.2	314/01.7	349/02.7	356/04.9	331/01.0
26	251/04.9	269/05.1	271/04.3	257/02.5	260/02.3	265/01.9	312/03.3	324/04.1	317/03.4	323/04.4	333/05.1	288/03.2	237/05.2	265/01.5
27	187/05.0	174/04.5	164/03.7	154/02.8	114/02.1	117/02.3	168/02.7	206/02.5	211/03.3	247/01.7	237/02.2	257/03.6	340/05.3	288/01.6
28	318/05.3	313/04.6	295/02.6	270/02.3	313/02.5	355/02.1	056/00.7	305/01.6	336/02.2	313/02.5	315/02.4	317/03.8	332/06.6	056/00.7
29	240/05.7	235/06.3	239/05.4	254/04.0	286/03.4	303/03.1	316/03.2	314/03.3	320/04.1	325/03.6	328/04.4	301/03.8	235/06.3	327/01.7
30	182/04.5	195/04.4	196/03.8	207/03.4	197/02.2	181/01.7	188/01.8	208/01.4	226/02.5	224/01.7	256/01.7	187/03.7	335/06.0	208/01.4
31	288/06.9	290/06.3	293/05.6	308/03.1	327/03.4	349/04.4	348/04.1	029/08.4	046/12.6	042/10.1	039/08.0	292/04.4	046/12.6	239/01.3
MEAN	187/04.9	191/04.8	276/04.6	314/04.1	026/03.7	032/03.8	037/03.8	026/04.0	042/04.1	041/04.0	018/03.9	009/04.0		
MX SPD	241/13.4	244/10.8	038/10.0	260/11.3	041/10.6	030/10.5	028/09.7	032/10.6	046/12.6	039/10.6	038/09.2		241/13.4	
MN SPD	094/01.3	107/01.9	359/02.0	275/01.6	011/01.8	309/01.5	056/00.7	286/00.7	113/00.6	155/00.7	333/00.5			333/00.5

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 009/04.0 MAXIMUM WIND SPEED WAS 13.4 mps AT 241 DEGREES ON 12/19 AT 1400

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	140/03.8	138/02.0	134/02.4	147/03.4	152/04.6	151/05.5	148/05.0	130/03.8	148/04.3	169/04.8	173/05.0	172/04.9	189/04.6
02	143/05.5	146/05.4	146/04.7	150/05.3	158/05.8	146/04.9	140/05.0	163/04.0	188/04.3	188/04.8	191/05.0	184/04.7	174/04.8
03	193/04.2	195/03.6	187/04.0	175/05.5	174/05.1	173/04.8	170/05.8	179/05.3	188/05.3	169/06.8	149/07.5	144/06.7	147/07.0
04	162/07.4	154/07.1	139/07.5	133/07.5	129/06.8	121/07.4	122/06.0	145/06.4	149/08.0	153/08.3	153/08.1	159/08.4	159/08.2
05	166/07.2	158/05.7	161/05.4	155/05.1	150/04.7	149/05.4	154/05.5	176/08.6	181/10.2	181/11.2	184/10.4	183/09.0	191/08.4
06	176/07.7	172/07.2	175/06.7	181/06.6	172/07.3	172/07.0	173/06.7	177/07.5	171/08.0	171/08.9	172/10.9	178/10.9	182/10.3
07	177/11.0	182/09.4	180/08.8	176/09.5	175/08.7	179/07.7	172/07.2	175/09.0	177/09.0	178/08.5	179/07.9	178/07.6	176/07.1
08	227/07.9	291/08.3	293/06.6	005/05.3	025/06.5	011/05.1	359/05.9	021/04.5	038/05.1	026/04.2	012/03.6	304/03.4	286/03.4
09	277/01.1	082/02.3	040/06.1	050/06.3	040/04.4	020/03.3	024/03.3	027/03.7	012/02.9	044/03.0	088/03.2	054/02.7	082/03.8
10	128/06.4	129/05.1	134/05.2	144/04.7	145/04.5	156/03.8	163/03.7	174/03.2	167/03.6	174/03.6	160/03.8	163/04.1	162/04.3
11	130/05.2	139/05.1	131/04.9	121/04.7	136/04.5	177/06.0	178/06.6	185/06.7	196/05.1	199/04.8	207/05.5	209/05.5	225/05.9
12	236/02.8	266/03.7	285/03.7	308/06.2	313/09.1	319/10.4	335/10.2	341/07.7	349/07.3	009/06.1	027/07.2	025/06.2	008/04.8
13	142/02.0	173/01.5	180/02.3	152/03.8	147/04.3	101/06.7	071/07.1	087/06.0	119/04.7	163/05.4	172/06.0	185/06.4	198/06.3
14	180/06.3	188/05.7	195/04.7	207/04.4	216/03.8	227/03.4	223/03.5	217/03.1	212/03.3	224/03.5	237/03.3	271/03.8	255/04.3
15	052/06.6	044/07.1	039/08.1	035/09.6	033/10.1	007/07.4	013/05.2	024/05.5	036/04.1	053/04.0	051/04.5	068/03.7	090/03.0
16	170/06.9	169/05.8	167/05.4	186/03.3	198/03.2	193/04.5	199/04.1	209/03.2	204/04.5	201/03.8	203/03.6	209/04.8	218/05.5
17	191/04.8	192/05.1	211/04.0	221/03.6	227/03.6	248/04.3	253/03.9	283/02.4	255/02.4	270/05.2	288/07.5	296/08.8	286/09.6
18	016/09.5	015/08.0	003/05.4	003/04.6	357/05.3	346/05.8	330/05.1	346/06.4	356/05.7	358/05.4	014/07.1	019/07.5	018/07.6
19	057/05.0	055/04.4	048/04.1	039/02.7	037/01.9	293/01.7	295/03.6	271/03.2	234/02.9	218/03.5	201/03.0	217/03.6	201/03.5
20	143/05.9	153/04.7	166/04.6	186/04.4	191/04.5	198/04.8	207/04.4	208/05.0	218/04.9	244/05.5	268/06.3	302/08.6	295/08.2
21	064/08.5	069/07.8	038/04.3	044/05.4	031/05.7	025/05.9	011/04.4	008/03.3	004/02.1	046/02.6	060/02.6	074/02.5	129/01.9
22	161/03.0	213/04.2	295/03.1	325/03.5	359/04.4	335/07.1	331/08.9	333/06.9	327/04.8	324/05.9	310/06.0	287/07.3	287/07.9
23	050/09.9	054/10.4	051/10.3	050/08.2	026/04.3	029/05.3	007/05.7	326/04.5	342/02.6	054/01.6	094/02.9	119/02.1	153/02.7
24	130/07.5	137/05.7	136/06.0	129/06.2	119/06.2	124/07.3	127/07.5	136/06.5	158/06.7	177/08.1	189/08.0	179/08.9	178/08.5
25	190/07.1	189/06.5	203/05.6	204/05.3	197/04.8	190/04.8	217/03.6	214/03.0	211/03.2	213/04.3	237/05.5	257/06.3	249/05.9
26	186/03.7	201/04.1	223/03.0	219/03.0	204/02.7	269/02.5	250/03.4	360/06.1	032/09.3	038/08.1	045/06.9	053/05.8	062/05.7
27	048/14.1	039/14.4	040/13.1	029/09.8	032/10.4	017/05.7	027/08.9	025/05.6	011/06.1	011/06.4	006/06.6	011/06.6	020/07.4
28	349/02.3	341/02.4	322/02.7	314/03.2	013/02.7	037/03.0	029/03.5	004/02.1	007/02.9	023/03.7	024/03.8	025/03.3	015/02.6
29	348/02.6	048/01.1	127/02.1	169/02.7	181/02.8	188/03.1	192/04.2	197/04.2	197/05.1	189/06.8	197/07.3	203/07.6	201/07.4
30	225/03.8	239/04.9	239/05.2	287/02.7	306/04.9	317/08.8	334/08.6	005/06.3	039/13.5	046/11.5	041/08.2	044/06.3	031/04.4
31	111/05.5	105/03.7	108/03.2	139/02.4	159/01.2	277/00.4	275/01.1	222/01.4	174/02.9	196/02.9	202/03.6	201/03.9	191/05.0
MEAN	151/06.0	147/05.6	153/05.3	148/05.1	140/05.1	180/05.3	203/05.4	203/05.0	180/05.3	169/05.6	168/05.8	181/05.9	189/05.8
MX SPD	048/14.1	039/14.4	040/13.1	029/09.8	032/10.4	319/10.4	335/10.2	175/09.0	039/13.5	046/11.5	172/10.9	178/10.9	182/10.3
MN SPD	277/01.1	048/01.1	127/02.1	139/02.4	159/01.2	277/00.4	275/01.1	222/01.4	004/02.1	054/01.6	060/02.6	119/02.1	129/01.9

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for OCTOBER, 2011

PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	166/04.5	162/05.0	174/04.5	159/05.1	149/05.3	150/06.0	145/05.3	142/05.7	148/05.6	150/04.7	140/04.7	153/04.6	150/06.0	138/02.0
02	162/04.9	169/05.0	167/04.9	151/05.3	132/05.7	132/07.1	148/07.1	161/07.6	162/08.2	174/06.2	182/04.7	161/05.5	162/08.2	163/04.0
03	140/06.7	151/07.1	141/07.1	129/07.3	132/06.0	141/06.3	142/06.9	155/07.5	162/07.1	162/07.2	163/07.2	161/06.2	149/07.5	195/03.6
04	150/07.5	148/08.2	148/08.5	147/08.5	143/08.1	148/07.6	165/06.4	171/08.0	150/10.4	155/09.1	163/08.3	149/07.8	150/10.4	122/06.0
05	198/07.7	196/07.5	186/06.7	171/07.4	160/07.9	153/08.6	155/09.8	160/10.2	165/09.5	172/09.0	176/07.6	170/07.9	181/11.2	150/04.7
06	184/10.2	174/10.5	164/12.0	164/14.3	169/12.9	170/12.1	164/11.6	165/12.3	163/12.7	166/13.0	166/13.1	172/10.0	164/14.3	181/06.6
07	176/07.6	165/08.5	160/10.2	150/12.3	151/11.7	152/09.5	162/11.6	173/12.3	166/13.5	171/13.9	200/09.0	172/09.6	171/13.9	176/07.1
08	285/03.3	180/02.7	117/01.8	133/02.6	114/07.9	101/08.4	076/07.4	066/04.6	136/03.3	056/02.4	142/02.8	039/04.9	101/08.4	117/01.8
09	136/04.5	071/04.5	158/03.3	138/01.9	107/02.6	106/05.1	094/05.6	090/06.5	087/06.3	094/07.2	110/06.8	074/04.2	094/07.2	277/01.1
10	160/04.2	150/04.3	159/04.3	146/05.3	138/06.6	135/07.1	129/06.7	131/06.2	124/06.2	130/06.7	130/06.1	147/05.0	135/07.1	174/03.2
11	237/06.3	266/06.8	243/06.4	248/06.9	275/05.6	259/02.7	212/03.0	183/06.1	189/04.9	189/04.1	203/03.8	198/05.3	248/06.9	259/02.7
12	358/04.7	355/05.3	348/04.9	001/04.5	014/04.0	038/06.7	049/07.8	065/08.5	083/07.9	097/07.4	107/06.6	002/06.4	319/10.4	236/02.8
13	203/06.8	198/06.8	198/07.1	190/07.0	177/06.6	164/08.7	161/08.7	164/07.9	170/07.0	180/07.2	182/05.6	164/05.9	164/08.7	173/01.5
14	286/04.5	278/04.0	272/03.2	239/03.3	211/04.0	204/04.1	297/03.1	191/04.5	076/05.2	047/07.0	072/06.1	226/04.3	047/07.0	217/03.1
15	106/03.4	136/04.0	150/04.2	138/04.3	136/05.5	136/06.9	143/07.0	158/07.1	163/08.2	172/05.8	178/05.4	089/05.9	033/10.1	090/03.0
16	221/04.1	242/05.2	241/03.5	236/03.8	235/04.1	217/04.1	192/06.8	184/06.4	187/05.8	189/06.0	186/05.8	202/04.8	170/06.9	198/03.2
17	291/10.5	287/10.0	316/11.9	327/14.1	004/14.3	027/14.2	030/14.3	032/14.1	030/09.3	017/06.2	015/06.2	294/07.9	004/14.3	283/02.4
18	020/07.4	018/06.8	014/06.1	016/05.6	023/04.8	034/05.9	048/06.4	055/06.4	056/06.5	054/05.5	043/03.8	017/06.2	016/09.5	043/03.8
19	210/03.3	192/03.5	185/03.5	177/03.7	162/05.1	149/06.0	147/07.5	148/08.5	147/08.1	147/06.2	143/06.4	175/04.4	148/08.5	293/01.7
20	303/08.7	289/08.6	290/07.3	279/05.0	279/03.6	315/03.4	307/03.3	069/07.8	083/08.4	065/07.0	071/07.9	242/05.9	303/08.7	307/03.3
21	158/03.0	204/02.9	164/03.6	153/04.7	125/06.1	095/07.3	104/08.6	110/08.6	119/07.8	122/07.1	110/02.8	084/05.0	104/08.6	129/01.9
22	289/07.9	299/08.5	303/08.0	318/05.5	011/04.7	024/06.0	031/05.7	026/06.5	042/09.7	043/10.3	047/10.3	335/06.5	043/10.3	161/03.0
23	139/02.3	169/02.5	159/02.9	145/03.2	131/02.8	132/04.1	133/06.5	141/07.5	135/08.6	129/08.3	131/08.2	099/05.3	054/10.4	054/01.6
24	172/08.7	174/08.7	173/08.8	168/08.1	155/07.8	148/08.3	153/08.0	161/08.6	169/08.9	177/07.7	179/06.7	156/07.6	179/08.9	137/05.7
25	237/05.6	246/08.3	262/07.7	257/05.5	253/05.6	247/05.3	264/07.6	272/07.5	175/05.9	183/06.3	190/05.5	223/05.7	246/08.3	214/03.0
26	076/06.0	082/06.2	078/07.3	076/08.8	075/08.7	081/11.5	082/12.7	067/11.0	043/12.0	047/12.6	053/14.5	070/07.3	053/14.5	269/02.5
27	027/07.3	023/05.7	031/04.4	024/04.6	018/03.7	018/03.8	019/03.3	030/03.3	017/03.3	002/03.6	019/03.5	023/06.7	039/14.4	019/03.3
28	030/02.2	006/02.4	347/02.3	025/02.7	052/02.9	076/03.3	082/03.7	115/03.0	168/01.5	237/01.2	316/02.9	016/02.8	024/03.8	237/01.2
29	204/07.6	207/07.8	207/06.4	200/06.1	192/07.1	201/07.5	196/03.9	191/04.3	195/05.1	203/04.3	211/04.0	193/05.0	207/07.8	048/01.1
30	023/04.6	033/05.0	034/04.7	038/05.0	034/06.3	044/07.5	053/08.0	064/07.3	075/07.1	093/05.7	106/05.0	028/06.5	039/13.5	287/02.7
31	197/05.8	194/06.0	188/06.1	185/06.1	175/06.0	172/07.6	173/07.1	175/06.2	177/06.3	176/06.3	175/06.3	180/04.5	172/07.6	277/00.4
MEAN	188/05.9	190/06.1	182/05.9	163/06.1	137/06.3	130/06.9	128/07.1	132/07.5	134/07.4	137/06.9	141/06.4	153/06.0		
MX SPD	291/10.5	174/10.5	164/12.0	164/14.3	004/14.3	027/14.2	030/14.3	032/14.1	166/13.5	171/13.9	053/14.5		053/14.5	
MN SPD	030/02.2	006/02.4	117/01.8	138/01.9	107/02.6	259/02.7	212/03.0	115/03.0	168/01.5	237/01.2	142/02.8			277/00.4

POSSIBLE NUMBER OF OBSERVATIONS = 744 ACTUAL NUMBER OF OBSERVATIONS = 744 DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 153/06.0 MAXIMUM WIND SPEED WAS 14.5 mps AT 53 DEGREES ON 10/26 AT 2400

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	176/06.3	178/06.5	183/06.3	184/05.9	182/04.9	189/03.8	203/03.2	209/03.3	202/04.3	204/04.1	206/03.9	205/04.5	208/06.1
02	179/06.2	184/05.5	191/05.0	192/05.3	193/04.9	186/05.3	199/04.1	212/03.2	232/03.0	331/08.2	012/10.7	005/12.3	002/14.2
03	359/04.9	337/05.1	316/04.9	321/05.6	333/06.2	328/06.6	319/06.0	316/04.3	302/03.0	348/02.1	126/01.6	201/02.3	198/03.0
04	145/04.4	138/06.9	135/06.7	132/06.3	134/06.9	124/06.2	131/06.9	143/05.9	163/06.8	163/06.6	158/06.5	156/06.2	160/06.4
05	156/06.7	159/06.6	165/05.9	174/05.2	160/05.6	173/05.9	173/06.4	176/06.3	184/07.8	183/08.0	185/09.6	199/10.0	211/10.8
06	207/06.4	214/06.2	212/05.7	221/04.9	231/03.8	219/02.2	250/01.3	291/01.1	227/02.7	239/04.0	253/05.7	222/05.8	207/06.5
07	113/03.9	126/04.8	133/05.9	167/08.1	175/08.2	209/06.1	229/02.9	176/02.3	190/03.0	185/03.1	175/03.4	188/04.9	207/06.7
08	307/08.7	296/09.4	291/09.6	291/07.2	300/05.3	303/03.7	289/02.9	256/03.0	276/05.0	287/10.3	290/08.7	292/08.8	299/09.6
09	032/07.7	027/07.6	024/09.3	030/10.7	030/08.8	020/04.5	011/03.2	015/04.4	028/04.9	052/04.8	071/05.0	065/04.8	069/04.7
10	045/00.2	357/00.5	352/00.5	306/00.9	292/02.6	290/02.4	293/04.2	288/04.0	267/02.7	249/04.3	241/04.3	224/05.0	219/05.9
11	231/03.4	237/04.9	221/05.5	212/04.3	214/03.7	214/03.2	224/04.3	224/03.1	225/03.1	217/05.4	218/06.4	221/06.0	224/06.6
12	219/05.6	212/04.9	213/05.1	218/05.4	224/04.1	226/06.5	215/06.2	223/05.8	211/05.7	236/06.9	250/09.6	265/12.9	258/12.6
13	242/07.9	234/06.0	250/07.8	253/06.5	236/07.0	227/04.8	238/04.3	233/03.7	222/04.1	257/07.1	243/07.4	244/06.2	251/07.4
14	271/06.4	280/05.8	286/04.1	269/03.9	257/05.7	245/06.7	269/05.9	280/05.3	262/05.3	235/06.6	230/08.0	230/10.2	241/11.5
15	249/02.4	298/02.8	316/05.9	303/04.0	311/03.8	324/05.2	323/05.4	337/05.0	321/06.0	318/08.1	313/07.0	308/06.6	300/06.4
16	306/06.5	348/05.9	014/04.8	003/05.2	016/03.7	026/04.9	014/03.3	010/02.2	027/01.3	242/02.2	332/06.2	327/09.9	341/08.5
17	053/06.3	079/04.4	057/04.4	054/07.5	054/05.9	046/03.0	042/03.4	064/04.3	102/04.5	133/04.4	166/05.3	168/05.0	182/06.1
18	179/07.2	182/07.2	179/05.5	189/04.5	187/04.8	190/04.8	196/05.7	196/04.9	189/06.8	195/06.2	204/06.0	204/07.5	213/08.5
19	201/06.9	204/06.0	204/05.2	206/03.8	203/05.5	206/06.3	209/03.8	215/03.9	193/03.5	202/04.8	213/06.1	236/08.5	233/10.0
20	284/08.0	281/04.0	197/04.8	199/04.0	227/02.7	224/02.8	212/01.2	242/02.1	048/07.6	039/05.5	044/05.9	055/05.7	070/05.3
21	100/05.9	090/05.3	082/05.3	067/06.2	076/07.1	085/07.6	075/08.2	071/05.8	085/07.8	086/07.7	088/03.2	076/03.2	094/03.4
22	276/04.9	262/04.3	249/03.8	278/07.1	282/06.6	295/05.5	306/07.3	312/08.2	317/09.4	321/09.0	331/07.3	346/06.6	339/05.1
23	162/03.2	210/02.0	271/01.8	275/01.0	321/00.5	325/00.9	010/00.7	104/01.1	129/01.2	172/03.1	186/03.6	201/05.5	193/06.6
24	172/05.3	161/05.5	175/07.1	172/07.9	170/06.5	160/04.9	156/04.8	161/04.6	181/06.0	186/06.8	186/05.5	198/06.0	198/05.6
25	173/05.3	176/05.4	185/05.0	181/04.8	206/02.3	145/02.9	114/03.8	173/03.3	270/03.8	253/02.8	159/03.8	161/04.1	180/06.0
26	295/05.5	296/05.8	304/05.8	343/07.7	352/08.1	005/07.6	010/08.3	017/12.4	013/15.0	017/13.7	017/12.7	013/13.9	010/14.4
27	342/07.4	343/08.4	334/08.3	329/08.9	328/07.5	307/05.7	302/06.7	299/05.4	298/03.9	293/06.2	284/06.1	276/05.8	286/05.2
28	304/07.0	303/07.0	305/07.5	307/08.0	307/08.6	306/07.7	307/08.0	305/07.0	291/04.3	283/06.1	279/07.0	294/06.8	294/05.8
29	044/04.8	074/06.4	054/07.6	029/10.8	027/12.7	029/13.3	032/12.4	035/12.0	044/11.9	046/08.6	048/06.7	051/05.2	066/03.7
30	111/02.4	172/00.7	209/00.8	214/01.8	209/02.7	204/02.9	204/02.6	201/02.4	190/03.7	193/06.4	191/06.9	189/07.1	192/06.2
MEAN	213/05.6	225/05.4	233/05.5	243/05.8	246/05.6	243/05.1	257/04.9	245/04.7	233/05.3	236/06.1	219/06.3	227/06.9	228/07.3
MX SPD	307/08.7	296/09.4	291/09.6	029/10.8	027/12.7	029/13.3	032/12.4	017/12.4	013/15.0	017/13.7	017/12.7	013/13.9	010/14.4
MN SPD	045/00.2	357/00.5	352/00.5	306/00.9	321/00.5	325/00.9	010/00.7	291/01.1	129/01.2	348/02.1	126/01.6	201/02.3	198/03.0

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for NOVEMBER, 2011

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HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	210/05.6	197/06.8	191/07.8	176/07.0	156/08.4	152/08.3	157/08.1	171/08.6	177/07.7	184/07.4	187/06.7	187/06.1	171/08.6	203/03.2
02	005/13.0	013/11.5	016/11.0	020/10.5	025/08.7	025/09.4	029/07.7	034/06.9	029/06.8	020/03.4	008/03.5	012/07.5	002/14.2	232/03.0
03	200/03.3	178/03.2	174/03.5	162/03.7	164/03.3	181/04.5	169/06.2	166/05.3	163/04.8	161/05.6	157/04.0	213/04.3	328/06.6	126/01.6
04	154/06.6	163/06.5	148/06.2	140/05.9	127/06.8	124/06.6	133/06.3	135/06.1	140/06.0	148/05.7	154/06.0	144/06.3	138/06.9	145/04.4
05	234/13.0	249/12.6	278/12.1	288/09.9	284/10.3	286/09.6	283/07.6	240/06.8	229/08.6	222/06.8	206/07.4	210/08.3	234/13.0	174/05.2
06	218/07.9	220/08.2	220/07.4	209/06.7	188/07.0	172/05.5	151/05.7	129/06.1	121/07.0	129/07.2	129/06.0	206/05.5	220/08.2	291/01.1
07	209/07.4	216/07.0	203/06.4	214/04.5	155/03.6	216/03.3	331/06.9	317/07.5	312/04.2	302/08.9	310/09.9	201/05.5	310/09.9	176/02.3
08	300/09.7	299/09.6	310/09.5	322/08.4	355/06.6	014/06.1	026/08.0	040/09.3	050/09.3	044/10.1	041/10.2	317/07.9	287/10.3	289/02.9
09	058/04.2	062/04.5	049/05.1	053/04.7	059/03.7	044/02.6	041/01.9	058/02.7	060/01.7	053/02.0	074/01.3	045/04.8	030/10.7	074/01.3
10	218/05.9	218/06.2	218/06.3	205/06.0	199/07.3	203/06.9	206/06.2	207/05.7	204/04.9	207/05.9	216/05.1	242/04.3	199/07.3	045/00.2
11	229/06.5	231/06.1	225/07.1	221/06.1	211/05.5	208/06.7	202/06.0	205/07.3	205/07.1	198/06.8	194/05.8	217/05.5	205/07.3	224/03.1
12	252/11.2	263/08.9	256/09.3	260/07.2	248/04.3	235/05.4	242/05.5	240/08.5	243/08.2	248/07.8	236/08.2	237/07.3	265/12.9	224/04.1
13	260/06.5	265/06.6	248/07.7	228/05.8	221/06.2	231/07.5	229/05.8	227/04.9	235/02.8	259/05.1	270/06.7	242/06.1	242/07.9	235/02.8
14	240/11.8	237/10.6	229/09.6	230/08.8	234/05.7	195/05.5	210/05.2	214/05.4	208/04.7	227/03.5	262/03.1	243/06.6	240/11.8	262/03.1
15	293/06.4	283/05.9	284/06.8	288/05.3	269/04.1	269/03.5	273/03.6	300/05.7	317/06.5	307/07.2	302/06.4	301/05.4	318/08.1	249/02.4
16	352/07.2	010/06.9	021/06.4	043/07.5	054/08.6	055/10.0	066/10.4	069/10.6	075/09.5	072/07.6	056/06.3	019/06.5	069/10.6	027/01.3
17	182/07.2	181/07.5	177/06.7	177/06.5	178/06.9	177/05.9	164/05.2	154/05.7	165/04.8	167/05.1	177/06.2	136/05.5	054/07.5	046/03.0
18	217/07.6	234/10.4	227/11.1	230/09.5	225/07.0	226/05.7	218/09.4	215/08.9	196/07.1	199/08.4	204/07.9	204/07.2	227/11.1	189/04.5
19	235/10.0	245/09.1	233/07.7	224/08.2	226/10.4	221/10.3	243/09.1	243/07.5	256/07.2	255/06.6	270/06.0	224/06.9	226/10.4	193/03.5
20	077/05.1	081/05.0	094/05.4	092/04.7	094/06.5	099/07.8	103/06.2	099/05.3	096/05.4	085/06.3	103/05.4	100/05.1	284/08.0	212/01.2
21	120/02.3	243/01.9	258/02.5	303/05.9	312/05.4	286/04.0	286/04.1	282/05.4	289/06.8	292/06.7	288/05.3	052/05.3	075/08.2	243/01.9
22	330/04.9	325/04.2	328/04.3	340/02.7	001/02.2	360/01.1	194/02.9	137/04.4	138/03.9	146/03.5	139/03.8	308/05.1	317/09.4	360/01.1
23	199/06.0	192/05.7	184/05.9	175/05.3	172/06.0	158/05.9	142/06.9	141/07.9	147/08.7	156/08.6	163/07.2	178/04.4	147/08.7	321/00.5
24	192/06.7	182/07.3	182/06.7	182/06.0	166/06.9	159/07.5	162/05.6	174/06.0	175/06.7	169/06.6	174/06.1	175/06.2	172/07.9	161/04.6
25	207/06.7	202/06.0	204/06.4	213/06.7	221/06.4	254/07.6	253/07.0	258/08.1	252/08.3	257/08.2	279/07.0	208/05.5	252/08.3	206/02.3
26	004/13.4	359/13.6	356/14.8	002/10.9	002/08.3	011/05.6	010/05.0	359/07.1	348/07.2	344/07.6	353/07.5	356/09.7	013/15.0	010/05.0
27	289/04.4	296/03.9	301/03.1	276/03.3	264/04.9	261/04.6	261/04.3	259/04.1	257/05.5	281/07.1	303/07.9	294/05.8	329/08.9	301/03.1
28	294/05.7	282/04.9	261/04.4	264/04.8	275/04.5	281/03.7	305/05.0	304/05.3	314/06.5	324/06.1	008/04.6	298/06.1	307/08.6	281/03.7
29	043/03.9	058/03.1	042/03.6	068/02.9	055/04.7	058/07.3	062/07.9	060/08.5	071/08.2	089/06.9	099/05.9	053/07.5	029/13.3	068/02.9
30	196/05.9	192/06.2	197/06.8	184/06.6	168/05.7	163/04.8	152/08.3	168/04.8	175/06.6	175/06.8	175/07.6	185/04.9	152/08.3	172/00.7

MEAN	235/07.2	237/07.0	234/07.1	226/06.4	206/06.2	207/06.1	201/06.3	194/06.5	192/06.4	202/06.5	204/06.2	226/06.1		
MX SPD	004/13.4	359/13.6	356/14.8	002/10.9	226/10.4	221/10.3	066/10.4	069/10.6	075/09.5	044/10.1	041/10.2		013/15.0	
MN SPD	120/02.3	243/01.9	258/02.5	340/02.7	001/02.2	360/01.1	041/01.9	058/02.7	060/01.7	053/02.0	074/01.3			045/00.2

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 226/06.1      MAXIMUM WIND SPEED WAS 15 mps AT 13 DEGREES ON 11/26 AT 900

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

## National Enrichment Facility

## 40M Wind Speed and Direction in mps for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13
01	179/06.4	179/04.8	178/05.6	181/05.0	200/03.6	194/04.2	185/05.6	179/03.6	167/02.4	029/06.4	037/06.5	031/07.3	038/09.6
02	037/10.2	032/08.8	031/07.6	027/06.7	031/06.9	035/06.2	036/04.8	032/03.9					
03				288/06.3	035/02.5	199/01.7	232/04.0	233/04.4	238/03.5	246/05.5	264/06.7	269/06.5	270/06.5
04	024/05.7	019/05.0	043/03.7	018/03.2	015/02.6	037/03.4	044/04.5	044/04.5	084/03.5	109/03.4	112/02.6	131/01.6	138/01.9
05	067/08.7	067/08.6	065/08.4	065/06.8	060/06.0	062/05.7	066/04.5	050/04.8	055/06.4	064/07.5	063/07.2	052/06.8	041/07.7
06	010/04.2	001/03.7	352/04.5	351/04.7	344/04.5	354/04.1	333/03.6	345/04.7	337/05.4	339/04.1	319/03.4	286/02.8	275/03.3
07	296/04.6	302/07.4	298/07.9	298/08.3	297/08.1	315/09.1	322/09.7	331/09.0	327/07.9	330/04.8	323/03.1	315/03.3	295/02.8
08	202/05.9	206/04.9	202/04.2	203/03.5	198/03.6	199/04.4	206/04.1	216/03.4	231/01.8	209/03.0	218/04.1	238/04.5	251/04.0
09	009/06.5	360/06.4	001/06.3	004/06.5	004/06.3	004/05.5	009/05.7	008/04.9	019/04.5	037/05.4	054/04.5	066/04.0	054/04.2
10	076/06.7	077/06.0	071/05.5	073/05.4	071/04.3	055/02.5	081/02.9	087/02.4	108/02.4	081/02.0	091/02.0	121/01.3	120/01.1
11		125/02.9	123/03.0	110/03.3	115/03.5	129/03.9	133/04.0	138/04.0	157/04.9	168/06.6	172/06.7	179/06.9	179/07.5
12	177/04.7	173/05.3	159/04.4	164/04.3	165/04.2	157/04.9	132/04.2	138/03.8	144/03.6	147/04.0	143/03.3	125/03.8	143/03.4
13	164/05.3	163/05.2	161/05.3	155/04.7	149/05.3	167/05.3	164/05.9	163/09.1	166/08.6	164/07.0	169/06.5	180/06.8	169/06.8
14	202/04.5	202/04.3	219/04.5	226/03.5	260/02.7	264/03.0	271/02.5	227/02.5	233/03.9	243/05.1	262/06.9	278/11.7	274/11.8
15	329/05.8	329/06.0	324/04.1	327/05.4	329/06.1	353/05.6	346/05.6	007/04.2	047/08.6	067/09.6	071/09.8	077/08.1	075/06.7
16	044/07.1	055/06.8	050/06.9	054/07.1	059/07.7	054/07.6	057/07.3	059/06.9	069/05.6	075/06.0	080/04.4	069/03.0	084/02.6
17	131/01.1	085/02.0	078/03.1	089/02.3	095/02.2	017/00.5	355/00.9	031/01.3	031/02.4	071/01.9	131/01.7	148/02.6	169/02.7
18	179/03.0	160/04.3	166/04.6	185/03.1	170/03.5	170/04.3	177/04.2	172/04.2	177/04.2	185/03.0	184/03.1	181/03.6	164/03.1
19	128/10.9	178/06.2	178/04.9	149/05.6	209/07.0	229/06.9	229/04.6	212/06.6	225/10.5	239/12.8	244/14.1	240/13.1	239/15.4
20	314/07.4	319/06.3	335/07.9	332/08.4	333/07.8	331/06.7	339/07.5	334/06.9	337/09.1	335/08.4	330/07.5	331/07.2	329/07.3
21	219/03.3	231/03.6	241/04.3	240/04.4	239/03.7	212/03.1	207/04.4	208/04.2	203/04.2	199/05.5	203/05.5	209/05.9	219/04.5
22	276/04.4	262/03.0	265/03.1	311/05.7	333/08.0	333/05.8	358/07.4	003/08.8	012/07.3	017/06.6	020/07.4	025/06.8	024/06.2
23	039/07.9	035/09.2	046/08.7	055/08.2	045/07.8	045/08.0	044/07.2	044/07.3	051/08.0	058/07.1	045/06.6	039/06.4	039/06.3
24	066/03.4	060/03.4	042/04.6	044/04.9	033/03.6	006/03.2	018/04.4	022/05.2	023/04.5	039/05.7	039/07.1	043/07.0	046/05.7
25	341/04.5	339/04.4	352/04.7	007/04.3	003/05.4	354/05.3	351/04.3	351/03.8	357/03.6	008/03.0	360/04.3	357/05.9	004/04.5
26	299/03.7	292/04.1	290/04.2	289/04.1	300/04.3	281/04.5	289/04.8	294/04.2	280/02.0	273/01.7	277/03.3	255/06.0	238/06.0
27	338/09.8	009/07.2	009/07.0	002/07.1	347/05.2	338/07.2	317/07.2	316/07.6	323/05.8	327/03.8	281/01.9	182/03.0	182/05.1
28	231/05.4	251/04.7	274/05.1	304/07.6	320/09.8	322/10.2	327/10.1	327/07.8	323/07.3	332/08.1	331/07.4	333/07.6	328/07.0
29	262/03.7	273/04.4	291/04.6	300/04.9	293/03.7	285/03.0	294/04.4	309/05.9	298/03.6	286/03.1	273/04.7	244/05.4	241/06.0
30	317/08.6	329/10.9	318/09.4	326/09.0	019/08.3	039/09.7	046/08.4	056/06.5	076/04.1	112/04.4	130/05.3	155/05.3	167/04.8
31	229/04.4	244/03.4	250/02.6	248/03.1	231/04.5	226/04.8	221/04.7	230/03.9	234/03.5	218/02.8	251/04.3	260/06.5	269/07.5
MEAN	318/05.8	334/05.4	343/05.4	345/05.4	357/05.2	345/05.2	347/05.3	002/05.2	006/05.1	038/05.3	008/05.4	198/05.7	207/05.7
MX SPD	128/10.9	329/10.9	318/09.4	326/09.0	320/09.8	322/10.2	327/10.1	163/09.1	225/10.5	239/12.8	244/14.1	240/13.1	239/15.4
MN SPD	131/01.1	085/02.0	250/02.6	089/02.3	095/02.2	017/00.5	355/00.9	031/01.3	231/01.8	273/01.7	131/01.7	121/01.3	120/01.1

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M Wind Speed and Direction in mps for DECEMBER, 2011

PAGE 2

HR END DAY	14	15	16	17	18	19	20	21	22	23	24	MEAN	MX SPD	MN SPD
01	046/10.9	042/12.6	037/12.8	036/12.2	040/13.5	029/13.8	027/12.5	031/13.8	035/13.8	038/13.6	037/11.7	068/08.8	029/13.8	167/02.4
02													037/10.2	032/03.9
03	278/07.9	282/07.5	289/05.0	329/06.0	342/06.3	005/06.8	027/08.8	039/09.7	049/09.3	048/08.4	040/07.7	305/06.2	039/09.7	199/01.7
04	104/02.5	085/03.3	069/04.7	081/06.1	070/06.3	064/07.1	053/07.0	035/03.7	025/03.9	053/05.8	061/07.0	062/04.3	064/07.1	131/01.6
05	042/08.3	036/08.4	031/08.5	033/08.0	026/07.5	023/06.8	024/06.1	020/06.0	016/04.4	018/04.7	010/04.2	044/06.8	067/08.7	010/04.2
06	263/04.1	262/04.7	255/05.0	257/04.3	243/04.5	246/04.3	255/03.9	257/04.4	259/04.0	256/04.0	274/02.5	299/04.1	337/05.4	274/02.5
07	263/02.6	195/03.3	188/04.0	183/04.4	187/04.2	200/03.4	185/02.9	174/04.1	178/06.4	174/05.8	196/05.6	262/05.5	322/09.7	263/02.6
08	259/04.0	267/03.4	270/02.8	283/01.9	316/02.6	328/04.4	351/05.4	008/03.6	025/08.8	029/11.2	026/10.8	249/04.6	029/11.2	231/01.8
09	043/04.1	053/04.0	045/04.7	048/05.3	056/06.2	052/07.6	053/07.2	067/07.2	075/05.8	079/05.3	083/05.8	039/05.6	052/07.6	066/04.0
10	089/01.3	101/02.0	105/02.5	094/02.0	107/02.5	107/01.7	096/01.1					091/02.9	076/06.7	120/01.1
11	181/06.8	184/05.7	173/05.7	160/05.7	158/05.6	172/05.9	163/05.7	162/06.0	165/05.5	167/05.2	169/04.8	156/05.2	179/07.5	125/02.9
12	122/03.8	116/03.9	116/04.2	121/04.7	118/03.4	123/05.4	135/06.7	142/07.8	153/06.1	153/05.4	148/06.2	142/04.6	142/07.8	143/03.3
13	168/08.4	168/07.2	152/07.6	160/05.7	167/05.5	165/06.4	179/05.0	182/06.0	184/06.6	187/06.1	196/06.0	168/06.3	163/09.1	155/04.7
14	280/09.8	278/10.6	281/09.2	278/07.3	268/05.3	267/06.2	273/04.7	314/07.0	338/09.3	335/09.0	333/06.7	266/06.3	274/11.8	271/02.5
15	078/05.7	063/05.7	062/05.9	047/06.7	048/06.0	060/06.2	061/05.2	054/05.2	056/06.7	064/06.7	048/06.0	036/06.3	071/09.8	324/04.1
16	091/02.5	080/03.0	073/03.5	077/03.4	068/03.0	068/04.1	095/04.0	111/04.2	136/04.3	160/03.2	175/01.4	078/04.8	059/07.7	175/01.4
17	162/03.3	166/03.0	170/02.8	196/03.3	197/03.3	167/03.5	172/03.1	187/02.3	151/02.4	160/03.0	177/04.1	135/02.4	177/04.1	017/00.5
18	153/04.0	153/05.3	152/06.2	163/06.3	153/06.3	127/05.6	134/05.7	128/04.0	165/02.9	166/03.7	114/08.5	162/04.4	114/08.5	165/02.9
19	241/16.6	244/13.4	243/12.5	259/14.5	281/11.1	304/10.5	329/11.0	332/10.3	333/09.9	329/09.3	331/09.0	247/10.3	241/16.6	229/04.6
20	321/06.2	326/05.0	325/04.5	344/03.5	002/02.8	319/01.9	286/01.6	265/01.3	215/01.4	201/01.1	194/02.3	319/05.4	337/09.1	201/01.1
21	218/04.1	245/05.8	234/06.0	251/05.1	244/04.9	251/05.3	278/05.4	263/07.5	284/06.6	286/05.8	280/05.3	236/04.9	263/07.5	212/03.1
22	022/05.6	023/06.1	033/08.8	037/10.2	040/08.5	040/09.0	038/08.9	041/08.9	043/09.4	039/08.1	042/07.1	011/07.1	037/10.2	262/03.0
23	032/06.0	024/05.5	022/04.5	025/05.6	030/05.7	029/05.6	025/05.6	026/05.4	030/05.1	039/05.5	068/04.9	039/06.6	035/09.2	022/04.5
24	043/04.7	038/03.3	360/02.3	330/02.5	328/03.3	333/02.7	330/03.0	325/03.1	323/02.7	347/03.1	352/03.2	015/04.0	039/07.1	360/02.3
25	007/04.2	004/04.0	357/04.5	352/04.4	341/03.7	359/03.5	358/03.0	350/02.5	343/01.7	300/02.0	314/03.1	352/03.9	357/05.9	343/01.7
26	251/05.8	270/06.0	271/05.2	256/03.4	246/03.4	253/04.2	271/04.9	298/05.6	297/05.8	314/08.6	325/10.1	280/04.8	325/10.1	273/01.7
27	185/05.8	173/05.2	163/04.3	158/04.0	155/04.1	162/04.3	181/05.4	198/06.1	199/06.5	215/04.7	222/05.4	236/05.6	338/09.8	281/01.9
28	316/06.1	313/05.2	294/03.1	271/03.2	294/03.5	305/02.4	284/01.2	289/01.8	277/01.9	238/02.7	243/03.3	298/05.5	322/10.2	284/01.2
29	241/06.5	235/07.5	239/06.6	252/06.0	272/05.6	277/05.5	293/05.5	290/05.9	298/07.0	295/06.0	304/08.2	277/05.3	304/08.2	285/03.0
30	182/05.1	194/05.1	195/04.5	205/05.3	203/06.0	201/05.8	198/05.3	205/05.2	207/05.9	207/05.9	213/05.3	184/06.4	329/10.9	076/04.1
31	286/08.1	289/07.7	292/06.7	301/05.3	306/05.3	331/08.8	349/08.3	026/11.7	044/16.5	041/13.4	039/11.1	273/06.6	044/16.5	250/02.6
MEAN	225/05.8	252/05.8	279/05.6	300/05.5	335/05.3	357/05.6	001/05.5	356/05.9	008/06.2	021/06.1	009/06.1	348/05.6		
MX SPD	241/16.6	244/13.4	037/12.8	259/14.5	040/13.5	029/13.8	027/12.5	031/13.8	044/16.5	038/13.6	037/11.7		241/16.6	
MN SPD	089/01.3	101/02.0	360/02.3	283/01.9	107/02.5	107/01.7	096/01.1	265/01.3	215/01.4	201/01.1	175/01.4			017/00.5

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 96.8 %

MONTHLY MEAN = 348/05.6      MAXIMUM WIND SPEED WAS 16.6 mps AT 241 DEGREES ON 12/19 AT 1400

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix B.2**  
**Joint Frequency of Occurrence Distributions of Wind Speeds and Directions**



National Enrichment Facility

10M Joint Frequency Distribution

October, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	2.0	3.0	.0	.1	.0	.0	5.1	3.6
NNE	2.7	4.8	1.7	.4	.0	.0	9.7	4.5
NE	1.2	4.6	.9	.7	.0	.0	7.4	5.1
ENE	1.2	2.0	.4	.0	.0	.0	3.6	3.9
E	1.3	2.0	.3	.1	.0	.0	3.8	3.9
ESE	2.4	3.2	.3	.0	.0	.0	5.9	3.4
SE	1.9	5.5	.4	.0	.0	.0	7.8	3.9
SSE	3.9	6.9	3.8	.8	.0	.0	15.3	4.8
S	3.2	6.5	5.1	.3	.0	.0	15.1	5.1
SSW	2.8	3.9	1.2	.0	.0	.0	7.9	3.9
SW	1.7	.9	.1	.0	.0	.0	2.8	2.9
WSW	1.1	1.5	.1	.0	.0	.0	2.7	3.7
W	1.2	1.2	.1	.0	.0	.0	2.6	3.2
WNW	1.9	.5	1.6	.0	.0	.0	4.0	4.4
NW	1.1	.7	.4	.0	.0	.0	2.2	3.8
NNW	1.6	2.4	.0	.1	.0	.0	4.2	3.8
CALM							.0	
TOTAL	31.3	49.6	16.5	2.6	.0	.0	100.0	4.3
TOTAL NUMBER OF OBSERVATIONS	744							
POSSIBLE NUMBER OF OBSERVATIONS	744							
DATA RECOVERY	100.0%							

National Enrichment Facility

10M Joint Frequency Distribution

November, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	1.5	1.7	.4	.7	.0	.0	4.3	4.7
NNE	1.8	1.5	1.7	.8	.0	.0	5.8	5.7
NE	1.1	2.9	1.4	.0	.0	.0	5.4	4.7
ENE	1.0	2.6	.6	.0	.0	.0	4.2	4.2
E	.1	2.1	.4	.0	.0	.0	2.6	4.2
ESE	1.0	1.7	.0	.0	.0	.0	2.6	3.1
SE	1.8	1.7	.0	.0	.0	.0	3.5	3.2
SSE	2.2	4.3	.0	.0	.0	.0	6.5	3.8
S	3.5	5.6	1.2	.0	.0	.0	10.3	3.8
SSW	4.7	6.7	.8	.0	.0	.0	12.2	3.8
SW	3.1	5.1	2.2	.1	.0	.0	10.6	4.5
WSW	1.8	3.1	1.5	.1	.0	.0	6.5	4.8
W	1.8	2.1	.4	.3	.0	.0	4.6	3.9
WNW	1.7	3.5	1.7	.0	.0	.0	6.8	4.6
NW	1.9	2.1	1.0	.0	.0	.0	5.0	3.9
NNW	1.9	6.4	.6	.0	.0	.0	8.9	3.8
CALM							.1	
TOTAL	31.0	52.9	13.9	2.1	.0	.0	100.0	4.2
TOTAL NUMBER OF OBSERVATIONS	720							
POSSIBLE NUMBER OF OBSERVATIONS	720							
DATA RECOVERY	100.0%							

National Enrichment Facility

10M Joint Frequency Distribution

December, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	2.0	3.8	.1	.0	.0	.0	5.9	3.5
NNE	.9	4.2	1.5	.3	.0	.0	6.9	5.0
NE	1.2	7.3	3.8	.9	.0	.0	13.2	5.5
ENE	1.9	3.6	1.1	.0	.0	.0	6.6	4.3
E	2.0	.5	.1	.0	.0	.0	2.7	2.8
ESE	2.7	1.6	.1	.0	.0	.0	4.4	2.9
SE	1.9	1.9	.3	.0	.0	.0	4.0	3.3
SSE	2.0	5.0	.4	.0	.0	.0	7.4	3.9
S	2.7	4.3	.4	.0	.0	.0	7.4	3.7
SSW	2.3	1.6	.0	.0	.0	.0	3.9	3.0
SW	2.0	1.1	.3	.0	.0	.0	3.4	3.0
WSW	2.6	2.2	.1	.8	.0	.0	5.6	4.4
W	2.7	1.9	.9	.1	.0	.0	5.6	4.2
WNW	2.7	1.1	.5	.0	.0	.0	4.3	3.1
NW	3.1	3.9	.1	.0	.0	.0	7.1	3.3
NNW	3.4	6.0	2.0	.0	.0	.0	11.4	4.1
CALM							.1	
TOTAL	36.0	49.9	11.8	2.2	.0	.0	100.0	4.0
TOTAL NUMBER OF OBSERVATIONS		744						
POSSIBLE NUMBER OF OBSERVATIONS		744						
DATA RECOVERY		100.0%						

National Enrichment Facility

10M Unit-Vector Wind Direction and Scalar Speed

October - December 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER	TOTAL	AVG
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	21		SPEED
N	1.9	2.8	.2	.3	.0	.0	5.1	3.8
NNE	1.8	3.5	1.6	.5	.0	.0	7.5	5.0
NE	1.2	4.9	2.0	.5	.0	.0	8.7	5.2
ENE	1.4	2.8	.7	.0	.0	.0	4.8	4.2
E	1.2	1.5	.3	.0	.0	.0	3.0	3.7
ESE	2.0	2.2	.1	.0	.0	.0	4.3	3.2
SE	1.9	3.0	.2	.0	.0	.0	5.1	3.6
SSE	2.7	5.4	1.4	.3	.0	.0	9.8	4.3
S	3.1	5.4	2.3	.1	.0	.0	10.9	4.4
SSW	3.3	4.0	.7	.0	.0	.0	8.0	3.7
SW	2.3	2.4	.9	.0	.0	.0	5.5	3.9
WSW	1.8	2.2	.6	.3	.0	.0	4.9	4.4
W	1.9	1.7	.5	.1	.0	.0	4.3	3.9
WNW	2.1	1.7	1.3	.0	.0	.0	5.0	4.1
NW	2.0	2.2	.5	.0	.0	.0	4.8	3.6
NNW	2.3	4.9	.9	.0	.0	.0	8.2	4.0
CALM							.1	
TOTAL	32.8	50.8	14.1	2.3	.0	.0	100.0	4.2
TOTAL NUMBER OF OBSERVATIONS	2208							
POSSIBLE NUMBER OF OBSERVATIONS	2208							
DATA RECOVERY	100.0%							

National Enrichment Facility

40M Joint Frequency Distribution

October, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.7	2.3	1.1	.1	.0	.0	4.2	5.2
NNE	.7	4.7	3.0	.7	.0	.0	9.0	5.9
NE	1.2	2.2	2.8	1.6	.0	.0	7.8	6.9
ENE	.3	.9	2.0	.1	.0	.0	3.4	6.5
E	.4	.7	1.5	.3	.0	.0	2.8	6.3
ESE	.5	1.3	1.5	.0	.0	.0	3.4	5.4
SE	1.5	4.0	4.3	.0	.0	.0	9.8	5.4
SSE	.8	6.3	6.5	2.0	.0	.0	15.6	6.8
S	.8	5.9	9.1	1.6	.0	.0	17.5	6.7
SSW	.8	6.2	2.4	.0	.0	.0	9.4	4.9
SW	.5	2.6	.1	.0	.0	.0	3.2	3.9
WSW	.3	2.3	.7	.0	.0	.0	3.2	4.9
W	.5	1.2	.7	.0	.0	.0	2.4	4.5
WNW	.4	.9	2.2	.1	.0	.0	3.6	6.4
NW	.3	1.2	.5	.3	.0	.0	2.3	5.6
NNW	.5	.5	.9	.3	.0	.0	2.3	6.3
CALM							.1	
TOTAL	10.2	43.3	39.2	7.1	.0	.0	100.0	6.0
TOTAL NUMBER OF OBSERVATIONS		744						
POSSIBLE NUMBER OF OBSERVATIONS		744						
DATA RECOVERY		100.0%						

National Enrichment Facility

40M Joint Frequency Distribution

November, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.6	1.0	1.2	1.1	.0	.0	3.9	7.6
NNE	.1	1.1	1.5	1.9	.0	.0	4.7	8.6
NE	.4	1.9	1.7	.7	.0	.0	4.7	6.4
ENE	.6	1.9	1.4	.3	.0	.0	4.2	5.6
E	.0	1.7	1.0	.0	.0	.0	2.6	5.8
ESE	.4	.6	.3	.0	.0	.0	1.2	4.1
SE	.4	1.7	1.9	.0	.0	.0	4.0	5.5
SSE	.0	4.0	2.9	.0	.0	.0	6.9	5.9
S	.4	4.7	6.4	.0	.0	.0	11.5	5.9
SSW	1.4	6.1	5.6	.1	.0	.0	13.2	5.5
SW	1.1	4.6	5.0	1.0	.0	.0	11.7	6.2
WSW	1.0	1.8	3.6	.8	.0	.0	7.2	6.7
W	.4	3.2	1.5	.3	.0	.0	5.4	5.4
WNW	.8	3.9	3.8	.3	.0	.0	8.8	6.0
NW	.4	2.1	3.5	.0	.0	.0	6.0	6.3
NNW	.3	.8	2.4	.0	.0	.0	3.5	6.6
CALM							.4	
TOTAL	8.3	41.1	43.6	6.5	.0	.0	100.0	6.1
TOTAL NUMBER OF OBSERVATIONS		720						
POSSIBLE NUMBER OF OBSERVATIONS		720						
DATA RECOVERY		100.0%						

National Enrichment Facility

40M Joint Frequency Distribution

December, 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER 21	TOTAL	AVG SPEED
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21			
N	.7	4.3	1.7	.0	.0	.0	6.7	4.9
NNE	.6	3.1	3.1	.8	.0	.0	7.5	6.5
NE	.3	3.3	6.7	1.7	.1	.0	12.1	7.5
ENE	.3	3.6	3.1	.0	.0	.0	6.9	5.9
E	1.9	.7	.1	.0	.0	.0	2.8	2.9
ESE	1.1	1.7	.1	.0	.0	.0	2.9	3.4
SE	.7	1.9	.3	.1	.0	.0	3.1	4.2
SSE	.8	5.1	2.2	.0	.0	.0	8.2	5.1
S	.8	4.9	1.5	.0	.0	.0	7.2	4.7
SSW	.4	4.9	.6	.0	.0	.0	5.8	4.6
SW	.6	3.1	.3	.1	.0	.0	4.0	4.4
WSW	.3	4.0	.8	.8	.1	.0	6.1	6.1
W	1.7	3.2	1.8	.7	.0	.0	7.4	5.4
WNW	1.0	3.3	1.7	.0	.0	.0	6.0	4.9
NW	.6	1.8	2.4	.4	.0	.0	5.1	6.3
NNW	.4	2.9	4.3	.6	.0	.0	8.2	6.6
CALM							.0	
TOTAL	12.1	51.8	30.6	5.3	.3	.0	100.0	5.6
TOTAL NUMBER OF OBSERVATIONS		720						
POSSIBLE NUMBER OF OBSERVATIONS		744						
DATA RECOVERY		96.8%						

National Enrichment Facility

40M Unit-Vector Wind Direction and Scalar Speed

October - December 2011

PERCENTAGE FREQUENCY OF OCCURRENCE OF HOURLY WIND VELOCITIES FOR ALL STABILITIES

WIND DIRECTION	WIND SPEED (mps)					OVER	TOTAL	AVG
	0.5-3	3.1-6	6.1-10	10.1-16	16.1-21	21		SPEED
N	.6	2.5	1.3	.4	.0	.0	4.9	5.7
NNE	.5	3.0	2.5	1.1	.0	.0	7.1	6.7
NE	.6	2.5	3.7	1.3	.0	.0	8.2	7.1
ENE	.4	2.2	2.2	.1	.0	.0	4.8	5.9
E	.8	1.0	.9	.1	.0	.0	2.7	5.0
ESE	.7	1.2	.6	.0	.0	.0	2.5	4.4
SE	.9	2.6	2.2	.0	.0	.0	5.7	5.2
SSE	.5	5.2	3.9	.7	.0	.0	10.3	6.2
S	.7	5.2	5.7	.5	.0	.0	12.1	6.0
SSW	.9	5.7	2.8	.0	.0	.0	9.5	5.1
SW	.7	3.4	1.8	.4	.0	.0	6.3	5.4
WSW	.5	2.7	1.7	.5	.0	.0	5.5	6.1
W	.9	2.5	1.3	.3	.0	.0	5.0	5.2
WNW	.7	2.7	2.5	.1	.0	.0	6.1	5.7
NW	.4	1.7	2.1	.2	.0	.0	4.4	6.2
NNW	.4	1.4	2.5	.3	.0	.0	4.6	6.5
CALM							.2	
TOTAL	10.2	45.4	37.8	6.3	.1	.0	100.0	5.9
TOTAL NUMBER OF OBSERVATIONS	2184							
POSSIBLE NUMBER OF OBSERVATIONS	2208							
DATA RECOVERY	98.9%							



**Appendix B.3**  
**Wind Gust**

National Enrichment Facility

10M WIND GUST in mps for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	3.8	1.3	2.1	2.5	3.7	4.3	4.6	4.8	6.3	6.9	7.7	7.0	8.3	8.9	8.9	7.1	6.5	6.1	5.4	4.5	4.4	4.2	4.3	4.6	5.3	8.9	1.3
02	4.5	4.4	3.9	4.1	3.9	4.1	4.3	5.5	5.5	7.0	7.5	7.5	8.4	13.6	9.3	8.9	7.2	6.9	7.0	6.9	5.5	5.8	4.7	3.5	6.2	13.6	3.5
03	2.4	1.9	3.5	3.9	3.8	4.1	5.6	7.1	6.9	9.4	11.7	10.8	12.3	10.2	11.4	9.9	11.1	7.9	5.3	5.9	5.6	4.8	4.9	5.1	6.9	12.3	1.9
04	4.6	5.6	6.4	6.6	6.1	6.7	6.4	8.8	10.1	11.0	11.7	11.9	14.9	12.3	11.5	12.4	11.3	9.9	7.9	9.2	8.6	13.1	11.1	11.2	9.6	14.9	4.6
05	9.0	7.7	5.7	5.2	5.0	6.6	7.3	10.8	13.2	14.3	13.0	12.1	12.2	11.2	10.6	11.0	9.3	10.3	10.6	11.8	13.6	11.6	10.5	9.1	10.1	14.3	5.0
06	9.1	7.9	6.9	7.1	8.0	7.9	8.2	10.0	9.6	11.6	15.5	15.5	14.1	15.1	15.3	15.1	18.2	15.6	15.0	14.1	14.8	14.9	15.7	17.0	12.6	18.2	6.9
07	15.5	11.8	11.0	10.9	11.2	8.3	9.9	11.2	11.4	11.8	11.4	10.9	11.9	11.5	13.3	14.1	14.8	14.8	12.9	16.3	16.1	16.8	18.7	12.4	12.9	18.7	8.3
08	11.3	10.8	6.1	6.0	6.9	6.5	7.2	6.5	7.7	6.8	7.6	7.2	7.3	8.2	5.5	4.9	4.0	10.8	9.9	9.5	6.1	7.1	3.5	5.4	7.2	11.3	3.5
09	3.7	4.9	8.1	8.0	5.8	5.1	5.2	5.7	6.3	5.1	5.8	5.6	8.2	7.9	10.6	5.8	3.3	3.8	4.6	5.3	6.3	7.5	8.1	9.2	6.2	10.6	3.3
10	9.0	7.9	7.4	6.5	5.6	5.0	6.0	4.9	5.8	6.0	6.7	9.3	7.5	9.9	8.1	6.8	7.9	7.9	8.2	6.8	6.4	7.4	7.1	6.7	7.1	9.9	4.9
11	6.3	5.3	4.4	3.9	5.1	7.7	8.7	8.6	7.0	6.8	8.2	8.3	9.2	11.0	11.5	9.1	8.9	6.1	2.4	5.4	7.8	5.4	3.8	5.5	6.9	11.5	2.4
12	3.0	3.5	2.6	4.7	7.0	7.0	9.3	9.7	9.3	9.0	11.7	10.3	9.5	9.2	10.2	7.8	6.0	5.3	5.7	6.0	7.1	7.2	6.2	5.5	7.2	11.7	2.6
13	2.6	1.1	1.3	2.1	3.5	7.1	6.6	7.2	6.2	8.1	9.1	9.3	9.4	10.6	9.8	11.0	9.0	6.1	5.6	5.8	5.6	3.6	4.9	4.1	6.2	11.0	1.1
14	4.7	4.3	3.0	2.5	1.9	2.7	3.0	4.4	4.6	5.7	5.7	7.2	7.7	8.7	8.1	6.1	5.3	2.9	2.2	6.9	7.3	6.6	6.6	5.4	5.1	8.7	1.9
15	6.0	6.1	7.5	8.1	8.8	8.6	7.0	7.8	5.9	5.8	6.8	6.8	5.6	7.2	7.5	6.4	5.7	6.6	6.0	6.1	5.6	6.1	4.1	3.2	6.5	8.8	3.2
16	4.2	3.8	3.5	2.7	1.8	2.8	2.8	6.2	6.8	5.7	5.7	7.3	9.8	7.2	9.5	6.3	5.4	2.6	3.2	5.9	5.9	3.9	4.2	3.8	5.0	9.8	1.8
17	3.2	3.5	2.3	2.3	2.7	4.1	3.6	3.0	5.6	9.1	10.4	12.9	14.0	14.1	14.3	14.4	18.9	21.3	20.0	18.5	17.2	14.1	10.2	10.4	10.4	21.3	2.3
18	15.7	14.8	8.0	7.0	5.6	4.5	6.5	8.5	8.1	8.7	12.2	12.8	13.3	11.2	10.5	10.1	9.3	5.8	3.9	4.4	4.4	4.6	3.9	3.1	8.2	15.7	3.1
19	3.6	3.3	3.8	4.9	5.0	4.8	4.9	4.4	4.9	5.8	7.6	6.1	7.1	6.3	6.6	6.9	5.8	4.2	5.4	6.6	7.3	6.6	5.2	5.3	5.5	7.6	3.3
20	5.5	4.3	3.5	3.1	3.4	3.1	2.6	6.3	7.0	7.9	11.3	12.0	11.1	12.6	13.3	10.8	8.0	5.1	3.8	7.0	7.7	7.5	6.7	6.8	7.1	13.3	2.6
21	7.7	7.2	5.2	3.9	5.3	5.8	5.9	4.9	3.9	4.5	4.9	4.5	5.2	6.4	7.0	6.6	5.4	5.2	6.1	7.0	8.0	8.1	7.7	4.1	5.9	8.1	3.9
22	3.2	2.9	6.4	6.5	5.6	6.2	7.1	6.4	6.1	8.5	9.0	11.0	11.7	12.9	12.0	11.5	8.6	4.9	4.7	4.6	7.4	7.7	7.8	8.4	7.5	12.9	2.9
23	7.9	8.4	8.6	7.3	5.4	4.6	5.4	5.5	4.6	4.4	5.5	4.9	7.7	5.8	6.4	6.2	4.7	2.8	3.9	6.1	5.2	7.0	6.8	7.8	6.0	8.6	2.8
24	7.5	5.0	4.8	5.6	5.1	6.1	7.3	8.1	9.1	10.6	10.5	11.8	11.7	12.6	11.9	11.3	9.4	7.5	7.0	6.1	10.0	10.3	8.2	7.6	8.5	12.6	4.8
25	7.0	7.4	4.3	4.1	3.2	3.0	3.6	4.0	4.5	6.8	8.7	9.1	10.8	9.1	12.4	13.5	7.5	3.9	3.2	7.2	6.2	8.1	8.1	6.1	6.7	13.5	3.0
26	4.9	3.1	1.7	2.1	1.8	4.2	3.9	10.7	11.4	10.6	9.9	8.0	7.9	9.8	8.2	9.5	10.7	10.2	15.4	16.4	16.7	15.5	15.4	19.4	9.5	19.4	1.7
27	17.4	17.7	15.6	16.2	14.9	9.2	12.9	9.3	8.8	9.3	9.7	10.3	10.3	10.6	8.4	7.3	6.6	6.2	6.2	5.3	4.7	5.4	5.7	5.3	9.7	17.7	4.7
28	3.9	3.9	4.2	4.9	5.0	3.8	4.7	3.8	5.5	6.5	7.2	7.4	5.3	5.0	5.3	4.4	3.9	3.0	2.9	3.6	2.5	1.4	2.9	4.3	4.4	7.4	1.4
29	3.3	3.1	3.0	2.1	1.5	1.7	2.5	5.3	7.7	9.3	9.8	9.9	10.0	10.6	10.3	9.1	7.7	5.1	5.2	3.1	3.0	3.9	4.4	2.5	5.6	10.6	1.5
30	3.6	4.2	4.0	3.7	4.8	6.6	6.1	11.9	17.1	15.0	12.0	9.5	8.5	8.9	7.7	7.8	5.9	4.8	5.7	6.4	5.7	6.0	5.3	4.4	7.3	17.1	3.6
31	4.3	1.8	3.0	3.5	3.5	3.5	3.1	3.6	4.7	4.2	5.3	8.3	9.7	8.8	8.3	8.3	7.3	5.2	5.5	4.3	3.8	4.2	5.9	5.2	5.2	9.7	1.8
MEAN	6.4	5.8	5.2	5.2	5.2	5.3	5.9	6.9	7.5	8.1	9.0	9.2	9.7	9.9	9.8	9.0	8.2	7.1	6.8	7.5	7.6	7.6	7.2	6.8	7.4		
MAX	17.4	17.7	15.6	16.2	14.9	9.2	12.9	11.9	17.1	15.0	15.5	15.5	14.9	15.1	15.3	15.1	18.9	21.3	20.0	18.5	17.2	16.8	18.7	19.4		21.3	
MIN	2.4	1.1	1.3	2.1	1.5	1.7	2.5	3.0	3.9	4.2	4.9	4.5	5.2	5.0	5.3	4.4	3.3	2.6	2.2	3.1	2.5	1.4	2.9	2.5			1.1

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 7.4 mps

MAXIMUM 10M WIND GUST WAS 21.3 mps ON 10/17 AT 1800

MAXIMUM DAILY MEAN WAS 12.9 mps ON 10/ 7

MINIMUM 10M WIND GUST WAS 1.1 mps ON 10/13 AT 200

MINIMUM DAILY MEAN WAS 4.4 mps ON 10/28

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M WIND GUST in mps for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	5.1	5.9	5.3	5.5	3.4	1.8	2.1	5.2	5.4	6.0	6.1	6.9	9.3	8.4	9.5	10.5	8.4	8.1	8.4	10.6	9.7	8.9	8.4	7.4	6.9	10.6	1.8
02	6.1	5.5	4.1	4.8	3.6	3.7	3.0	5.3	4.2	15.7	16.4	18.5	19.5	18.5	21.1	16.5	16.1	14.0	13.9	12.4	8.9	9.9	4.2	4.9	10.5	21.1	3.0
03	4.7	5.7	4.4	4.7	4.8	4.3	4.2	3.9	4.9	3.8	3.4	5.2	6.8	6.5	6.1	5.6	5.1	3.2	4.4	5.0	4.3	3.7	4.2	2.5	4.6	6.8	2.5
04	5.0	6.5	6.0	5.6	6.1	5.3	7.3	7.9	9.3	8.9	9.1	9.0	8.7	10.1	8.8	8.4	7.6	7.2	6.8	7.1	7.2	6.1	6.5	5.8	7.3	10.1	5.0
05	7.4	7.8	6.9	5.0	5.1	4.6	4.6	8.8	10.0	10.3	12.5	12.8	15.6	19.7	16.2	14.8	13.4	11.7	10.9	8.1	10.0	10.1	7.9	7.0	10.1	19.7	4.6
06	5.6	4.6	3.9	3.5	2.0	2.5	2.0	2.5	5.2	6.5	8.6	9.4	10.0	10.8	11.1	9.4	8.8	5.6	4.9	4.6	4.8	5.9	6.6	5.4	6.0	11.1	2.0
07	3.9	5.5	5.4	9.9	9.6	7.0	4.5	3.4	4.2	5.2	6.2	11.4	9.5	11.0	12.5	10.4	7.2	2.8	5.5	5.7	6.0	4.4	12.3	11.2	7.3	12.5	2.8
08	10.7	13.0	11.7	5.5	5.8	3.6	3.8	5.4	10.5	13.2	12.6	12.1	14.4	14.0	13.8	13.0	10.3	6.2	8.6	9.3	9.2	10.6	10.4	9.8	9.9	14.4	3.6
09	9.5	8.6	11.6	11.1	10.0	7.2	4.6	7.5	7.6	7.1	8.1	8.1	8.0	9.0	8.2	7.5	6.5	3.0	2.6	2.2	5.0	2.0	2.6	2.0	6.6	11.6	2.0
10	2.1	2.0	2.9	3.7	3.8	3.6	4.7	4.3	4.1	6.9	8.0	8.4	9.6	10.1	9.0	8.5	7.2	4.4	3.9	3.3	2.8	2.1	2.2	2.8	5.0	10.1	2.0
11	2.5	3.5	3.6	3.0	2.3	1.9	2.0	2.7	4.1	9.3	8.8	8.2	9.0	9.0	9.4	8.6	7.3	4.0	5.4	4.0	4.8	4.8	4.4	6.9	5.4	9.4	1.9
12	4.7	4.5	3.6	5.2	3.6	5.3	4.7	4.4	6.9	9.7	13.5	16.8	16.9	14.7	11.7	11.3	8.3	4.0	6.4	5.8	8.8	9.0	7.8	5.8	8.1	16.9	3.6
13	8.0	6.3	7.0	5.3	5.1	4.5	4.5	5.6	6.4	10.7	10.6	10.9	10.8	9.3	8.6	10.1	8.0	7.5	7.4	4.9	3.0	4.0	4.7	7.1	7.1	10.9	3.0
14	6.9	5.5	5.3	3.5	6.4	7.6	6.7	7.6	7.8	9.6	11.0	14.4	14.1	15.2	14.8	13.0	11.6	6.5	5.6	4.8	4.5	4.3	3.3	2.3	8.0	15.2	2.3
15	1.9	3.4	4.8	3.2	4.9	4.4	3.8	4.7	8.4	10.3	9.3	8.9	10.1	9.4	9.8	8.6	6.7	3.2	2.3	3.8	4.5	4.8	5.6	4.9	5.9	10.3	1.9
16	5.3	5.9	5.1	5.3	5.3	3.9	5.3	3.0	2.8	7.2	11.2	13.6	12.5	10.9	11.2	10.2	9.1	10.0	11.6	12.8	12.5	11.0	11.2	7.9	8.5	13.6	2.8
17	7.8	5.4	5.3	8.3	6.8	4.3	3.1	5.9	6.2	8.5	8.2	9.0	8.9	10.5	10.4	8.7	7.8	5.3	4.3	4.1	5.6	3.5	3.7	3.6	6.5	10.5	3.1
18	4.9	5.2	4.3	3.1	2.7	3.0	3.8	5.2	8.8	9.0	7.9	10.3	11.5	11.0	13.2	13.3	11.5	7.5	7.4	6.8	7.7	7.3	7.6	7.3	7.5	13.3	2.7
19	6.7	5.9	4.3	4.4	4.6	4.1	3.0	3.2	6.4	6.6	10.2	11.3	13.0	12.7	11.2	10.9	8.6	11.4	10.6	11.3	9.0	6.0	7.1	4.0	7.8	13.0	3.0
20	6.6	5.4	4.9	2.5	1.9	1.2	1.3	5.3	10.9	8.1	7.6	8.0	7.5	6.5	6.3	6.9	5.7	5.6	7.7	5.9	5.5	5.6	6.9	6.6	5.9	10.9	1.2
21	6.8	5.5	6.2	6.8	8.3	9.6	9.1	10.8	9.5	9.4	9.0	4.5	4.7	4.7	3.5	4.5	8.4	5.9	4.1	5.6	5.0	12.8	6.2	4.8	6.9	12.8	3.5
22	5.9	4.7	5.6	7.1	6.0	5.8	6.8	10.2	12.0	11.1	10.3	10.0	8.4	7.7	7.7	6.1	3.9	3.1	2.4	7.1	3.4	2.8	2.7	3.0	6.4	12.0	2.4
23	2.1	2.8	3.8	4.0	3.5	1.7	3.8	2.0	1.7	4.9	5.7	8.5	8.7	8.4	8.1	8.0	7.0	4.9	5.4	4.8	6.6	7.1	6.8	6.6	5.3	8.7	1.7
24	4.2	4.3	4.6	5.0	4.1	3.0	3.1	5.0	8.1	8.2	7.1	8.1	7.5	9.3	9.1	8.2	7.1	5.6	5.4	4.9	5.0	6.7	6.7	5.7	6.1	9.3	3.0
25	4.6	4.7	3.4	3.7	1.7	3.7	3.6	2.8	5.5	4.7	5.5	6.1	8.1	8.5	7.5	7.7	7.9	6.1	8.0	7.7	8.4	10.0	9.3	8.6	6.2	10.0	1.7
26	5.4	5.4	5.3	8.5	6.1	11.4	12.7	20.4	21.4	20.4	21.2	21.9	21.3	20.0	19.3	19.1	15.6	11.3	7.4	6.3	6.2	5.7	5.7	5.2	12.6	21.9	5.2
27	5.3	5.8	5.8	6.0	5.5	4.4	4.2	3.9	6.9	8.3	8.8	9.1	8.2	8.8	6.1	5.3	3.7	3.2	2.6	2.6	3.5	4.6	5.9	5.5	5.6	9.1	2.6
28	5.2	5.3	5.8	5.9	6.1	5.5	6.8	6.6	6.5	7.7	9.2	9.7	8.6	7.9	7.3	6.3	4.1	2.6	4.1	5.8	5.8	5.6	4.8	5.2	6.2	9.7	2.6
29	4.6	6.1	6.7	12.8	14.1	14.1	13.6	14.1	14.9	12.0	9.3	8.4	6.5	6.5	5.9	5.7	4.7	4.2	5.8	6.4	7.7	8.3	6.7	5.1	8.5	14.9	4.2
30	2.8	3.9	3.0	2.6	2.3	1.2	1.9	2.2	5.4	9.1	9.3	8.8	8.4	8.1	8.3	8.2	7.8	4.2	5.9	7.5	5.3	6.7	6.5	6.4	5.7	9.3	1.2
MEAN	5.4	5.5	5.4	5.5	5.2	4.8	4.8	6.0	7.5	8.9	9.5	10.3	10.5	10.6	10.2	9.5	8.2	6.1	6.3	6.4	6.4	6.5	6.3	5.7	7.1		
MAX	10.7	13.0	11.7	12.8	14.1	14.1	13.6	20.4	21.4	20.4	21.2	21.9	21.3	20.0	21.1	19.1	16.1	14.0	13.9	12.8	12.5	12.8	12.3	11.2		21.9	
MIN	1.9	2.0	2.9	2.5	1.7	1.2	1.3	2.0	1.7	3.8	3.4	4.5	4.7	4.7	3.5	4.5	3.7	2.6	2.3	2.2	2.8	2.0	2.2	2.0			1.2

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 7.1 mps

MAXIMUM 10M WIND GUST WAS 21.9 mps ON 11/26 AT 1200

MAXIMUM DAILY MEAN WAS 12.6 mps ON 11/26

MINIMUM 10M WIND GUST WAS 1.2 mps ON 11/20 AT 600

MINIMUM DAILY MEAN WAS 4.6 mps ON 11/ 3

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M WIND GUST in mps for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN	
01	6.2	3.4	3.9	2.8	2.7	3.0	3.3	4.3	7.7	9.2	8.9	10.0	13.1	13.8	15.3	15.5	15.7	16.6	18.4	18.5	17.3	17.4	18.4	15.0	10.9	18.5	2.7	
02	13.2	12.0	10.9	9.1	9.1	8.3	7.0	6.1	5.0	4.6	3.9	4.8	4.8	3.2	3.3	4.4	5.6	5.7	5.8	7.1	5.7	5.1	6.2	3.6	6.4	13.2	3.2	
03	3.6	3.8	5.2	7.9	3.8	2.9	3.7	4.7	4.7	7.9	8.6	9.7	10.4	12.4	11.0	7.5	5.5	4.9	8.2	12.3	11.6	10.8	11.0	9.7	7.6	12.4	2.9	
04	7.5	7.7	4.4	4.6	3.9	4.7	5.6	6.0	4.8	5.7	4.4	2.9	3.8	4.2	4.5	6.6	7.7	6.9	8.4	8.8	6.8	4.6	6.6	8.8	5.8	8.8	2.9	
05	11.7	10.9	11.2	9.5	8.4	8.1	7.1	6.8	8.9	10.1	9.3	8.8	9.3	9.5	9.9	9.9	9.7	9.6	10.0	8.7	9.0	7.5	7.5	6.2	9.1	11.7	6.2	
06	6.2	4.9	5.2	4.8	4.0	4.9	3.3	7.2	7.0	5.6	5.1	4.3	5.2	6.2	6.4	6.1	5.7	3.3	3.5	2.3	2.9	2.4	3.0	4.4	4.7	7.2	2.3	
07	5.6	6.1	5.6	5.7	5.3	7.9	6.9	6.9	6.7	6.3	5.1	4.9	4.3	4.6	5.2	5.9	5.1	3.6	2.2	1.7	3.1	4.3	3.1	3.2	5.0	7.9	1.7	
08	4.0	3.9	3.1	2.6	2.1	3.2	3.3	2.7	2.8	4.4	5.6	8.1	5.9	6.2	5.3	4.7	2.7	3.5	4.4	5.4	4.3	10.8	11.9	11.4	5.1	11.9	2.1	
09	8.7	6.9	7.5	7.7	7.5	6.5	7.3	6.8	7.1	7.4	6.5	6.4	7.5	6.9	6.8	6.3	6.5	6.8	8.5	6.7	6.4	5.6	4.8	5.6	6.9	8.7	4.8	
10	6.3	6.2	5.8	6.3	6.1	4.0	4.1	3.6	4.3	3.5	3.5	3.1	2.4	2.8	3.7	4.1	3.6	3.9	3.0	3.0	3.6	4.1	3.4	3.2	4.1	6.3	2.4	
11	4.5	4.2	3.9	4.6	4.6	4.5	4.6	4.6	7.1	8.2	8.1	8.2	8.8	8.9	7.4	6.9	6.8	6.8	7.0	6.9	7.2	6.8	7.0	6.7	6.4	8.9	3.9	
12	6.2	7.0	5.9	5.6	5.3	6.0	5.6	5.3	4.8	5.2	5.0	5.2	5.6	5.1	5.4	6.1	6.1	5.2	7.8	8.6	9.9	8.0	7.1	8.4	6.3	9.9	4.8	
13	6.8	7.7	6.7	5.7	8.9	7.2	7.8	12.5	11.6	9.3	9.6	9.4	9.3	10.8	9.3	9.4	8.2	7.2	7.6	6.9	8.5	8.2	7.7	8.5	8.5	12.5	5.7	
14	6.6	6.5	7.3	3.8	3.2	3.0	2.7	2.8	4.2	6.6	13.1	14.8	14.9	15.5	14.3	12.1	9.0	3.9	4.7	5.6	6.4	8.1	7.7	6.1	7.6	15.5	2.7	
15	4.2	4.8	2.5	4.2	4.6	5.5	4.1	5.5	10.6	11.8	12.5	11.1	9.7	8.5	7.9	7.6	8.0	6.7	7.3	6.3	5.0	7.2	6.6	5.9	7.0	12.5	2.5	
16	6.2	4.8	5.5	6.1	7.1	7.2	7.5	6.5	7.6	7.8	7.2	7.4	5.6	6.1	5.3	5.3	4.6	3.1	3.6	2.8	4.0	3.3	2.4	1.1	5.3	7.8	1.1	
17	1.9	3.6	4.2	2.5	2.3	3.5	2.5	2.2	3.8	3.1	3.0	4.3	4.2	4.7	4.0	4.2	4.8	3.5	3.3	3.0	2.0	2.9	2.6	5.3	3.4	5.3	1.9	
18	3.9	6.3	5.8	5.0	5.6	5.6	5.4	5.8	6.1	4.6	5.0	5.2	5.6	6.6	8.3	8.0	7.8	8.7	9.7	8.9	5.4	4.4	6.7	14.0	6.6	14.0	3.9	
19	13.9	9.2	6.7	9.5	10.0	9.5	5.1	7.9	14.5	16.5	17.5	16.4	18.9	19.9	18.5	17.9	18.0	14.3	12.9	13.0	15.4	12.2	10.9	12.5	13.4	19.9	5.1	
20	9.0	6.8	10.1	10.6	10.4	8.6	10.2	11.0	11.6	10.8	10.2	10.3	10.1	10.6	7.4	6.9	5.1	2.6	2.2	2.4	1.2	1.3	1.2	1.6	7.2	11.6	1.2	
21	2.5	2.2	3.6	3.8	3.8	2.1	2.2	2.9	6.5	6.8	7.2	8.0	6.3	6.1	8.3	8.5	7.0	3.8	5.2	5.8	7.7	6.3	4.4	4.2	5.2	8.5	2.1	
22	3.8	2.6	3.0	6.4	7.5	6.2	9.1	11.5	10.8	10.0	11.6	10.3	9.8	9.0	10.3	12.0	13.0	11.4	11.7	11.8	11.8	11.4	10.9	9.3	9.4	13.0	2.6	
23	9.8	11.0	11.0	10.7	9.5	9.9	8.8	8.6	10.6	8.6	8.2	8.3	8.2	8.7	8.0	6.7	8.1	7.9	7.6	8.6	7.1	7.2	6.5	6.8	8.6	11.0	6.5	
24	3.8	4.5	5.3	5.5	4.1	4.6	6.4	7.8	6.7	7.3	9.0	9.5	7.3	6.4	5.6	3.4	3.0	3.9	2.6	2.8	2.9	2.5	2.7	3.1	5.0	9.5	2.5	
25	4.7	4.5	4.3	4.9	6.2	5.9	5.1	3.9	4.7	4.9	7.0	7.6	7.1	6.4	5.8	5.7	5.7	4.5	4.3	3.7	3.2	1.7	2.2	2.5	4.9	7.6	1.7	
26	2.8	5.0	5.6	5.5	4.8	4.3	4.0	3.0	2.5	2.6	5.7	7.6	7.7	7.3	7.6	7.5	4.1	3.4	2.7	4.3	5.2	4.8	7.5	8.1	5.1	8.1	2.5	
27	7.7	8.8	8.7	7.5	7.1	7.1	5.9	6.1	6.2	4.8	3.6	5.0	8.2	7.2	7.2	5.7	5.4	3.3	3.5	4.0	4.1	4.9	3.0	4.1	5.8	8.8	3.0	
28	3.4	3.1	5.0	6.1	7.9	9.7	10.0	8.6	10.1	11.4	10.4	9.9	9.4	7.8	7.3	4.6	3.8	3.5	3.1	2.0	3.2	3.1	3.2	3.4	6.3	11.4	2.0	
29	4.0	5.3	5.6	4.6	3.4	3.1	4.9	5.3	3.8	4.2	7.4	7.7	8.3	8.5	10.0	8.4	5.7	4.5	4.4	4.4	6.3	6.2	4.6	6.0	5.7	10.0	3.1	
30	5.8	8.7	7.1	8.0	12.8	8.6	6.7	5.5	5.4	7.0	8.4	7.9	7.6	8.0	8.4	6.0	5.4	3.3	2.7	2.4	2.2	3.5	2.9	2.4	6.1	12.8	2.2	
31	3.4	2.6	2.0	3.0	2.4	2.2	3.1	2.9	2.9	3.9	7.1	8.8	9.3	10.8	9.3	8.6	6.1	6.1	6.2	7.3	18.2	18.6	17.2	13.2	7.3	18.6	2.0	
MEAN	6.1	6.0	5.9	6.0	5.9	5.7	5.6	6.0	6.8	7.1	7.7	7.9	8.0	8.1	8.0	7.5	6.9	5.9	6.2	6.3	6.7	6.6	6.5	6.6	6.7			
MAX	13.9	12.0	11.2	10.7	12.8	9.9	10.2	12.5	14.5	16.5	17.5	16.4	18.9	19.9	18.5	17.9	18.0	16.6	18.4	18.5	18.2	18.6	18.4	15.0		19.9		
MIN	1.9	2.2	2.0	2.5	2.1	2.1	2.2	2.2	2.5	2.6	3.0	2.9	2.4	2.8	3.3	3.4	2.7	2.6	2.2	1.7	1.2	1.3	1.2	1.1			1.1	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 6.7 mps

MAXIMUM 10M WIND GUST WAS 19.9 mps ON 12/19 AT 1400

MAXIMUM DAILY MEAN WAS 13.4 mps ON 12/19

MINIMUM 10M WIND GUST WAS 1.1 mps ON 12/16 AT 2400

MINIMUM DAILY MEAN WAS 3.4 mps ON 12/17

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M WIND GUST in mps for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	6.8	3.8	3.2	4.3	5.8	6.4	6.8	5.3	6.8	7.2	8.0	8.8	9.2	8.4	9.2	7.4	7.6	7.3	6.9	6.8	6.6	6.7	6.7	7.8	6.8	9.2	3.2
02	7.2	6.9	5.7	5.9	6.8	6.1	6.1	7.3	6.0	7.6	8.6	8.4	9.3	13.9	9.6	9.5	7.8	8.5	9.0	8.7	9.3	9.6	7.8	6.3	8.0	13.9	5.7
03	5.3	4.6	5.8	7.0	7.3	6.6	7.7	7.7	7.5	10.5	12.1	12.0	12.7	11.3	12.5	10.7	12.2	9.1	8.0	8.5	8.6	8.6	8.4	9.0	8.9	12.7	4.6
04	8.6	8.3	9.1	9.2	9.0	9.4	9.0	10.1	10.7	11.5	11.9	12.8	13.1	14.6	13.4	15.1	12.9	11.5	10.2	10.1	10.5	15.3	13.1	12.4	11.3	15.3	8.3
05	11.0	9.3	8.4	7.0	7.0	7.9	8.2	12.6	14.5	14.8	14.7	13.0	15.6	12.6	11.7	11.7	10.5	11.4	11.7	14.0	14.5	13.9	12.5	11.6	11.7	15.6	7.0
06	11.3	9.8	9.0	9.5	10.1	9.4	9.4	10.3	10.6	12.5	16.5	15.7	15.3	16.0	18.0	16.6	19.7	17.6	19.6	16.6	16.9	17.9	18.7	18.0	14.4	19.7	9.0
07	17.1	14.4	12.5	13.2	12.4	11.7	10.9	12.0	12.6	12.6	12.5	12.5	11.9	12.5	14.2	15.1	16.1	16.4	15.1	19.3	17.1	20.0	20.3	15.0	14.5	20.3	10.9
08	11.9	12.3	8.4	8.4	9.4	8.9	9.8	7.7	8.3	7.1	9.6	7.3	8.7	7.3	5.8	4.9	4.6	12.4	11.7	12.0	7.3	7.6	3.8	5.5	8.4	12.4	3.8
09	3.8	6.2	8.8	8.8	7.2	5.7	6.2	6.4	6.0	5.8	6.4	5.4	8.2	8.0	11.2	6.3	3.9	5.0	6.9	7.2	8.0	9.5	9.8	9.3	7.1	11.2	3.8
10	9.7	8.6	7.6	7.2	6.1	5.4	5.7	5.0	6.4	5.8	7.9	9.2	8.6	9.2	8.2	7.4	8.0	9.1	9.6	9.3	8.8	9.0	9.1	8.4	7.9	9.7	5.0
11	8.2	7.2	6.0	5.9	7.5	9.3	9.8	10.1	7.3	7.2	10.0	8.9	9.7	12.2	11.5	11.4	9.9	8.3	5.3	8.5	9.2	7.9	6.3	6.7	8.5	12.2	5.3
12	4.2	5.7	5.2	8.3	11.2	11.9	12.5	11.3	10.7	10.4	11.7	11.4	9.3	10.8	11.3	8.5	7.0	6.8	8.4	9.7	10.3	10.0	9.5	8.5	9.4	12.5	4.2
13	5.7	2.4	3.8	5.1	6.0	8.9	8.5	7.7	6.5	9.2	9.3	10.1	10.9	10.8	10.9	10.9	10.3	8.7	9.6	10.1	10.2	8.3	8.7	7.7	8.3	10.9	2.4
14	8.7	8.6	6.0	5.3	4.9	4.6	4.6	5.2	5.3	5.5	6.9	7.2	8.1	9.3	7.8	7.1	6.2	4.6	5.9	7.7	8.2	7.7	9.0	7.5	6.7	9.3	4.6
15	7.7	8.3	9.8	10.9	11.7	12.0	9.4	9.6	6.2	6.0	7.6	6.7	5.9	6.0	7.3	6.7	6.5	7.2	8.2	8.8	9.3	9.3	8.0	6.3	8.1	12.0	5.9
16	7.6	7.0	6.2	4.8	5.0	5.7	5.9	6.1	7.1	6.2	5.8	8.4	10.1	8.3	12.4	7.6	6.6	4.9	5.7	9.9	8.3	7.2	7.7	7.1	7.2	12.4	4.8
17	6.5	6.5	4.9	4.5	4.7	5.6	5.3	3.5	5.9	8.7	11.1	13.0	15.6	16.4	16.1	18.7	21.2	25.8	23.2	21.6	19.4	15.7	13.1	11.2	12.4	25.8	3.5
18	17.9	18.1	11.0	8.9	7.6	7.4	7.2	10.1	9.4	10.4	14.0	13.2	13.8	13.7	12.7	11.5	10.1	7.6	7.0	7.5	7.4	7.6	6.6	5.6	10.3	18.1	5.6
19	5.5	4.9	5.0	3.6	2.7	3.9	4.3	4.5	5.1	6.3	5.8	7.2	8.0	6.9	8.1	7.2	6.6	6.2	8.1	9.3	10.0	10.1	8.6	7.7	6.5	10.1	2.7
20	8.1	6.2	6.9	6.3	6.8	6.4	5.6	7.5	6.9	8.3	11.9	13.4	12.5	14.6	14.2	11.8	9.6	6.3	4.6	8.6	10.3	11.1	8.9	9.3	9.0	14.6	4.6
21	10.1	9.2	7.9	7.4	8.4	8.6	7.1	7.0	3.9	4.7	4.5	4.6	4.8	6.4	7.0	7.4	6.3	8.8	9.3	10.1	10.8	11.1	10.5	4.4	7.5	11.1	3.9
22	4.3	5.5	6.4	8.6	8.6	9.4	10.5	9.9	7.0	9.1	10.5	11.9	14.8	15.6	13.1	12.8	9.1	6.8	7.8	6.5	10.8	11.4	11.6	11.7	9.7	15.6	4.3
23	11.2	11.8	11.7	11.0	7.8	8.1	8.3	6.4	5.4	4.3	5.6	5.2	6.6	6.5	5.9	5.8	5.0	3.4	6.0	8.6	9.0	10.4	10.1	10.1	7.7	11.8	3.4
24	10.1	8.7	7.5	7.7	8.1	9.3	9.8	9.3	9.5	11.3	11.4	12.8	11.9	12.1	12.5	12.1	10.9	10.1	10.5	9.8	12.3	12.1	10.9	9.5	10.4	12.8	7.5
25	9.8	9.1	7.3	6.7	6.5	6.1	4.9	4.8	5.3	7.4	9.3	10.1	10.4	10.1	14.0	15.7	8.7	6.9	6.9	10.3	10.1	10.0	9.9	8.3	8.7	15.7	4.8
26	7.3	5.0	4.8	4.6	3.9	4.7	4.2	11.5	12.3	11.3	9.8	8.6	8.1	9.6	8.6	9.6	11.4	12.1	17.3	18.3	18.1	18.6	17.3	22.8	10.8	22.8	3.9
27	20.2	21.0	19.1	17.2	15.3	11.8	14.0	10.9	11.0	11.0	10.8	11.7	11.4	11.0	9.5	7.6	7.3	5.8	7.3	6.1	5.0	6.3	6.5	6.3	11.0	21.0	5.0
28	4.1	4.3	5.0	5.6	6.0	4.4	5.2	4.0	5.5	6.7	8.1	9.1	5.6	4.8	5.6	4.4	4.6	3.6	3.8	4.6	4.1	3.6	2.2	4.9	5.0	9.1	2.2
29	4.7	2.9	3.0	3.3	3.5	3.8	5.2	6.4	8.6	9.3	10.3	10.9	10.8	10.7	12.4	11.0	8.7	8.8	8.9	6.9	6.0	7.2	6.8	5.0	7.3	12.4	2.9
30	5.4	6.6	6.5	5.0	8.0	11.5	10.3	14.4	18.7	16.2	12.2	9.9	8.4	8.8	8.8	7.8	6.6	7.5	8.3	9.2	8.6	9.0	7.1	6.3	9.2	18.7	5.0
31	6.4	4.9	4.2	4.3	3.8	1.5	2.5	2.8	4.9	4.7	6.1	7.5	8.5	9.4	9.8	8.3	8.3	8.1	8.8	8.8	7.7	7.7	8.4	8.3	6.5	9.8	1.5

MEAN	8.6	8.0	7.3	7.3	7.4	7.5	7.6	8.0	8.1	8.7	9.7	9.9	10.2	10.6	10.8	10.0	9.2	8.9	9.3	10.1	10.1	10.3	9.6	9.0	9.0			
MAX	20.2	21.0	19.1	17.2	15.3	12.0	14.0	14.4	18.7	16.2	16.5	15.7	15.6	16.4	18.0	18.7	21.2	25.8	23.2	21.6	19.4	20.0	20.3	22.8		25.8		
MIN	3.8	2.4	3.0	3.3	2.7	1.5	2.5	2.8	3.9	4.3	4.5	4.6	4.8	4.8	5.6	4.4	3.9	3.4	3.8	4.6	4.1	3.6	2.2	4.4				1.5

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 9.0 mps

MAXIMUM 40M WIND GUST WAS 25.8 mps ON 10/17 AT 1800

MAXIMUM DAILY MEAN WAS 14.5 mps ON 10/ 7

MINIMUM 40M WIND GUST WAS 1.5 mps ON 10/31 AT 600

MINIMUM DAILY MEAN WAS 5.0 mps ON 10/28

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M WIND GUST in mps for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	8.3	8.7	9.1	8.5	6.7	4.9	4.6	5.6	6.3	5.9	6.1	7.5	9.7	8.2	10.6	11.1	10.0	11.3	11.1	12.7	12.4	10.7	11.1	9.8	8.8	12.7	4.6
02	8.4	8.4	6.9	7.4	6.5	6.9	5.9	6.0	4.4	18.5	19.1	20.8	22.7	22.2	22.1	19.7	20.5	15.7	16.4	13.7	12.9	11.6	6.3	6.1	12.9	22.7	4.4
03	7.7	8.0	6.0	6.2	7.0	7.4	7.1	6.6	5.0	5.7	3.5	5.0	7.3	5.7	6.0	5.8	5.6	4.4	5.8	7.0	6.5	6.7	7.0	4.7	6.2	8.0	3.5
04	7.7	8.7	8.4	7.9	8.5	8.3	9.1	9.6	9.1	9.0	10.3	9.2	9.9	10.2	9.6	8.7	8.4	9.5	9.1	9.9	9.3	8.4	8.1	8.1	9.0	10.3	7.7
05	9.5	9.3	8.5	7.3	7.7	7.7	7.9	10.0	10.6	11.3	13.1	13.8	16.7	20.0	18.7	17.6	14.0	14.6	14.3	10.9	12.8	11.8	11.1	8.7	12.0	20.0	7.3
06	8.6	9.7	7.7	7.3	5.3	3.9	2.9	2.2	5.9	7.3	9.1	9.6	11.5	12.1	11.6	11.1	10.2	8.3	6.5	7.0	6.9	9.3	8.9	8.8	8.0	12.1	2.2
07	5.6	7.6	8.0	11.8	11.7	9.3	6.0	3.5	4.5	6.0	7.2	10.7	10.5	12.1	13.1	10.9	9.0	4.4	7.8	8.0	9.4	7.4	13.2	13.8	8.8	13.8	3.5
08	14.4	16.0	14.9	8.7	9.0	6.2	5.3	5.3	11.9	14.1	13.0	13.7	15.4	15.5	17.5	14.7	12.1	9.2	11.2	11.5	11.8	13.0	12.5	13.2	12.1	17.5	5.3
09	12.2	11.8	13.6	15.0	11.9	10.1	7.1	8.6	8.7	7.5	8.0	8.9	8.3	9.0	8.6	8.2	7.2	4.6	3.8	2.4	5.7	2.9	3.6	3.1	7.9	15.0	2.4
10	.6	1.2	1.8	2.3	3.0	3.4	4.7	4.8	4.7	7.3	8.8	9.0	11.2	9.9	10.1	9.4	8.2	8.2	8.1	6.9	6.4	6.7	7.2	6.4	6.3	11.2	.6
11	5.3	6.4	6.4	5.9	4.5	4.1	6.0	5.1	5.3	10.0	10.1	9.0	9.7	9.8	9.7	9.9	8.6	7.3	8.5	7.5	8.4	8.1	8.5	9.3	7.6	10.1	4.1
12	7.6	6.9	6.6	8.6	6.8	9.1	7.6	7.1	8.0	10.6	14.3	18.2	18.0	15.9	13.0	12.6	10.0	6.2	9.9	8.6	11.3	11.5	11.3	10.9	10.4	18.2	6.2
13	11.4	9.0	10.3	8.6	8.4	7.1	6.8	7.8	11.6	10.8	11.8	12.0	10.1	9.9	10.8	9.6	10.2	9.3	7.8	7.7	5.4	8.0	9.3	9.3	9.3	12.0	5.4
14	9.7	7.7	7.2	5.7	8.1	9.9	8.5	8.3	8.6	10.2	12.7	17.1	16.2	16.9	17.6	14.3	13.2	7.8	7.6	6.5	7.0	7.0	4.7	6.0	9.9	17.6	4.7
15	4.3	5.2	7.2	5.1	5.9	6.1	6.2	6.6	9.4	11.5	10.4	10.1	11.3	9.4	10.9	9.8	7.5	5.4	5.1	6.8	7.3	8.1	9.1	7.6	7.8	11.5	4.3
16	7.6	8.2	7.7	6.9	6.8	7.3	5.7	4.2	2.9	6.9	11.1	15.0	14.6	12.1	11.7	10.1	10.6	11.6	14.6	15.4	14.6	13.3	13.5	10.1	10.1	15.4	2.9
17	9.6	7.8	7.8	10.8	9.3	6.4	4.6	6.0	6.3	7.3	8.1	9.1	9.9	10.4	11.0	10.0	9.0	7.8	7.2	6.2	7.9	6.6	6.8	7.2	8.0	11.0	4.6
18	8.2	8.6	7.9	6.1	5.9	6.3	7.3	6.8	9.4	9.1	8.9	11.5	11.9	12.3	14.5	15.2	13.6	10.1	9.9	11.0	12.3	10.6	11.2	10.1	9.9	15.2	5.9
19	9.3	7.6	7.5	5.9	8.1	8.2	6.8	6.1	6.4	7.1	11.5	12.3	13.9	12.9	12.9	11.9	11.6	13.9	14.5	14.1	11.4	9.3	9.8	8.0	10.0	14.5	5.9
20	10.4	9.6	8.9	5.1	3.5	3.4	2.8	7.7	11.4	8.6	8.7	8.2	7.9	7.1	7.7	7.6	6.3	8.6	10.0	8.8	7.4	7.2	8.3	8.6	7.7	11.4	2.8
21	8.6	7.4	7.1	8.7	9.5	10.5	10.5	12.4	10.7	10.3	10.2	4.9	5.0	5.3	3.5	5.0	10.1	7.9	7.7	9.1	7.7	15.2	8.9	7.7	8.5	15.2	3.5
22	8.5	8.6	6.5	10.2	9.3	7.8	10.4	11.2	13.8	12.5	10.7	11.1	9.7	7.9	7.8	6.9	4.6	3.3	2.8	7.9	5.6	5.6	4.3	5.3	8.0	13.8	2.8
23	4.0	4.0	2.8	2.5	1.0	1.7	2.7	1.7	2.6	5.2	6.3	9.1	9.4	9.6	8.8	8.3	7.3	6.9	6.8	8.4	9.6	10.4	10.0	10.1	6.2	10.4	1.0
24	7.8	7.2	9.1	8.8	7.9	5.9	6.0	7.0	8.7	9.3	7.7	9.1	9.6	9.7	10.5	9.4	8.6	9.3	9.5	8.5	8.5	8.6	9.0	8.2	8.5	10.5	5.9
25	7.0	6.9	6.1	6.1	3.5	4.7	4.9	4.6	5.3	5.8	6.0	6.7	8.7	9.4	7.9	8.6	9.4	8.7	11.3	10.9	11.1	12.2	12.3	11.6	7.9	12.3	3.5
26	8.5	8.0	7.7	11.4	10.4	13.8	18.0	23.2	26.5	24.2	23.5	24.6	24.6	22.5	22.3	23.3	17.6	14.9	10.1	9.7	8.8	10.3	9.2	8.5	15.9	26.5	7.7
27	8.3	9.2	9.4	9.8	8.9	6.7	7.4	6.9	7.2	8.8	9.5	10.7	9.2	8.0	6.5	5.6	4.7	5.8	6.2	5.1	4.9	6.7	8.6	8.9	7.6	10.7	4.7
28	8.5	8.4	8.9	9.0	9.7	9.5	9.4	9.1	6.9	8.0	9.7	10.4	9.5	8.4	7.7	6.9	5.8	5.2	4.6	6.0	6.2	7.7	7.2	7.7	7.9	10.4	4.6
29	6.7	7.7	8.9	15.7	16.7	17.1	16.3	16.0	16.3	13.3	10.1	8.2	6.6	7.1	6.9	6.4	4.9	7.2	8.5	9.6	10.3	10.2	8.7	7.4	10.3	17.1	4.9
30	5.7	1.3	2.0	3.8	5.0	4.4	4.2	4.0	6.0	10.0	9.7	9.6	8.8	10.1	8.6	10.1	8.7	7.6	8.6	10.6	7.9	9.1	9.0	9.9	7.3	10.6	1.3
MEAN	8.0	7.8	7.7	7.9	7.5	7.3	7.1	7.4	8.4	9.8	10.3	11.2	11.7	11.3	11.2	10.7	9.6	8.5	8.9	9.0	9.0	9.1	8.9	8.5	9.0		
MAX	14.4	16.0	14.9	15.7	16.7	17.1	18.0	23.2	26.5	24.2	23.5	24.6	24.6	22.5	22.3	23.3	20.5	15.7	16.4	15.4	14.6	15.2	13.5	13.8		26.5	
MIN	.6	1.2	1.8	2.3	1.0	1.7	2.7	1.7	2.6	5.2	3.5	4.9	5.0	5.3	3.5	5.0	4.6	3.3	2.8	2.4	4.9	2.9	3.6	3.1			.6

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 9.0 mps

MAXIMUM 40M WIND GUST WAS 26.5 mps ON 11/26 AT 900

MAXIMUM DAILY MEAN WAS 15.9 mps ON 11/26

MINIMUM 40M WIND GUST WAS .6 mps ON 11/10 AT 100

MINIMUM DAILY MEAN WAS 6.2 mps ON 11/ 3

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M WIND GUST in mps for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	9.4	6.4	6.9	5.9	5.1	6.1	7.1	6.9	8.0	10.1	9.4	10.7	13.3	15.0	18.1	17.0	17.1	18.5	20.6	20.1	19.0	20.2	19.5	17.2	12.8	20.6	5.1
02	14.8	12.8	11.6	9.6	10.1	9.0	7.6	5.9																			
03			9.2	5.0	3.5	5.6	6.0	5.9	9.6	9.4	10.2	11.0	13.1	12.0	9.6	7.6	7.3	10.6	13.5	13.1	13.0	12.3	11.7	9.5	13.5	3.5	
04	10.2	11.1	6.2	5.6	6.3	6.0	6.6	6.5	5.1	6.0	4.3	3.3	3.9	4.5	5.1	7.2	8.8	9.4	9.6	9.6	7.4	6.2	8.6	10.1	7.0	11.1	3.3
05	11.8	11.1	11.9	10.5	9.9	8.8	7.5	7.4	9.6	10.8	10.2	9.3	10.8	11.4	11.5	11.8	11.7	11.4	11.3	10.3	10.8	8.8	8.5	7.9	10.2	11.9	7.4
06	7.3	6.5	6.0	6.6	5.4	5.8	4.9	7.8	7.4	6.1	5.2	4.5	5.4	6.4	6.7	7.2	6.8	5.3	6.4	5.7	5.6	5.2	5.3	4.7	6.0	7.8	4.5
07	6.8	8.9	9.4	9.5	9.6	11.4	11.2	10.3	9.8	8.5	5.2	5.5	4.6	5.1	5.8	6.5	5.3	5.1	4.1	3.9	4.9	7.5	7.2	7.3	7.2	11.4	3.9
08	7.2	7.4	5.3	4.6	4.6	5.7	5.1	5.1	3.1	4.7	5.9	8.2	6.4	7.5	5.3	5.3	3.2	3.7	5.2	6.6	5.6	13.7	14.3	14.2	6.6	14.3	3.1
09	12.2	9.6	9.8	10.4	10.9	9.7	10.9	9.0	8.3	7.9	6.9	6.6	7.6	7.7	7.6	6.9	7.5	9.5	10.6	9.1	9.0	7.3	6.5	7.4	8.7	12.2	6.5
10	8.2	8.3	7.5	7.4	6.6	4.0	4.1	3.6	4.4	3.4	3.4	2.6	2.4	2.8	4.1	3.7	3.5	3.6	3.1	2.0				4.4	8.3	2.0	
11		4.4	4.3	4.9	5.2	5.3	5.7	5.4	7.8	9.0	8.6	9.0	9.6	9.3	8.3	7.3	7.4	7.5	7.9	7.6	7.6	7.6	8.0	7.6	7.2	9.6	4.3
12	7.1	7.3	6.1	5.9	6.0	6.9	6.5	6.1	5.1	5.4	5.8	5.8	5.7	5.4	5.8	6.8	6.6	5.6	8.9	9.5	10.9	8.8	8.9	9.2	6.9	10.9	5.1
13	7.6	7.9	8.8	6.9	9.5	9.0	9.8	15.0	13.7	11.0	10.2	10.4	10.0	11.7	10.1	10.5	9.2	8.1	8.7	7.9	9.7	9.7	9.2	9.8	9.8	15.0	6.9
14	7.3	7.1	8.7	5.1	3.6	4.5	3.9	3.8	6.4	7.7	13.5	16.2	15.9	15.1	16.1	14.0	10.9	6.9	7.6	7.3	10.2	10.8	10.7	10.4	9.3	16.2	3.6
15	7.8	7.8	5.9	6.4	6.9	7.4	6.8	8.1	12.3	12.7	12.9	12.2	10.9	8.6	8.6	8.5	9.1	8.0	9.3	7.8	7.1	9.2	9.2	8.2	8.8	12.9	5.9
16	8.6	8.7	8.7	8.9	9.9	9.8	9.3	8.8	8.0	8.7	7.6	6.5	5.4	5.1	5.9	5.9	4.8	3.9	5.1	4.9	5.3	5.3	4.8	2.2	6.8	9.9	2.2
17	1.9	3.0	4.5	2.9	2.7	1.7	1.8	2.6	3.7	3.2	3.4	4.1	4.3	5.2	4.2	4.7	5.3	4.3	4.4	3.9	3.3	3.8	3.5	6.5	3.7	6.5	1.7
18	4.5	6.4	6.6	5.2	6.2	6.8	6.3	6.5	6.8	4.7	5.1	5.6	5.7	7.1	8.9	9.1	8.6	10.1	10.4	9.9	6.1	4.7	8.2	15.3	7.3	15.3	4.5
19	15.9	10.1	8.0	11.0	11.8	11.1	7.4	10.2	16.9	17.8	18.9	18.5	22.1	22.7	19.7	19.4	19.7	16.0	15.5	15.7	17.1	15.0	12.8	14.8	15.3	22.7	7.4
20	10.7	9.9	12.6	13.1	12.0	10.9	11.0	12.6	14.5	11.9	10.6	10.7	11.2	14.9	8.2	7.1	5.7	3.7	3.0	2.0	1.8	2.1	1.7	2.8	8.5	14.9	1.7
21	4.5	4.6	5.6	5.5	4.7	4.6	5.2	5.3	7.5	7.6	7.6	8.0	7.3	6.7	8.7	9.1	8.3	8.2	7.7	9.6	10.8	9.1	7.1	7.1	7.1	10.8	4.5
22	6.4	5.0	5.2	10.0	10.6	9.5	13.2	14.8	13.0	11.4	12.1	10.7	10.1	10.0	10.7	13.1	14.4	11.7	13.3	13.1	12.8	12.4	12.5	10.0	11.1	14.8	5.0
23	11.0	12.8	12.2	12.6	10.5	10.9	10.1	9.5	10.6	9.4	9.3	9.0	8.9	9.3	8.7	7.8	8.9	8.5	8.9	9.5	8.6	7.9	8.3	7.8	9.6	12.8	7.8
24	4.9	5.9	6.5	7.0	5.4	5.3	7.7	8.9	7.7	8.2	10.3	10.2	8.6	6.8	6.3	3.8	3.7	4.6	3.6	4.0	3.8	3.5	4.2	4.5	6.1	10.3	3.5
25	6.3	6.5	6.6	6.7	9.0	8.3	6.8	5.9	6.2	6.2	7.0	8.6	7.6	6.9	6.7	6.5	6.9	5.1	5.1	4.6	3.7	2.6	3.5	4.2	6.1	9.0	2.6
26	4.6	6.3	6.4	6.9	6.2	6.1	6.3	5.6	3.2	2.9	6.8	8.3	8.2	8.6	8.5	8.5	5.0	4.6	5.2	5.8	6.7	6.8	11.5	11.9	6.7	11.9	2.9
27	11.7	12.4	12.5	11.7	10.3	9.0	8.3	8.6	7.9	5.3	3.4	5.4	8.8	8.0	7.6	6.2	5.8	4.8	6.4	6.1	7.6	7.4	5.8	7.1	7.8	12.5	3.4
28	6.4	6.0	7.0	9.2	12.4	15.1	14.0	10.8	11.3	11.8	10.9	11.4	10.1	8.7	8.6	5.3	4.4	4.6	3.4	1.7	2.7	3.1	3.8	4.0	7.8	15.1	1.7
29	4.9	5.2	6.0	6.5	5.3	5.1	8.0	7.2	6.5	4.4	7.4	8.6	8.2	9.4	10.1	9.3	7.8	7.7	8.0	7.4	8.4	9.3	7.9	10.4	7.5	10.4	4.4
30	11.1	12.6	11.4	10.9	16.4	11.9	9.9	8.6	6.8	7.2	8.8	8.1	7.7	9.2	9.0	6.4	6.2	6.9	6.9	6.6	6.1	6.5	6.6	6.1	8.7	16.4	6.1
31	5.8	4.8	3.4	4.0	5.4	5.6	5.7	5.2	5.4	4.5	7.5	9.5	10.1	11.5	10.1	9.1	7.6	8.2	10.8	12.0	19.3	21.1	19.9	16.0	9.3	21.1	3.4
MEAN	8.2	7.9	7.7	7.8	7.9	7.6	7.6	7.7	8.1	7.9	8.2	8.6	8.7	9.1	8.9	8.4	7.9	7.4	8.0	7.9	8.4	8.6	8.6	8.9	8.2		
MAX	15.9	12.8	12.6	13.1	16.4	15.1	14.0	15.0	16.9	17.8	18.9	18.5	22.1	22.7	19.7	19.4	19.7	18.5	20.6	20.1	19.3	21.1	19.9	17.2		22.7	
MIN	1.9	3.0	3.4	2.9	2.7	1.7	1.8	2.6	3.1	2.9	3.4	2.6	2.4	2.8	4.1	3.7	3.2	3.6	3.0	1.7	1.8	2.1	1.7	2.2			1.7

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 96.8 %

MONTHLY MEAN = 8.2 mps

MAXIMUM 40M WIND GUST WAS 22.7 mps ON 12/19 AT 1400

MAXIMUM DAILY MEAN WAS 15.3 mps ON 12/19

MINIMUM 40M WIND GUST WAS 1.7 mps ON 12/20 AT 2300

MINIMUM DAILY MEAN WAS 3.7 mps ON 12/17

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix C**  
**Temperature Information for 10- and 40-Meter Levels for**  
**October through December 2011**  
**C.1 Hourly Temperature**  
**C.2 Vertical Temperature Difference**  
**C.3 Atmospheric Stability**



**Appendix C.1**  
**Hourly Temperature**

National Enrichment Facility

10M TEMPERATURE in Deg C for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	16.2	15.9	15.8	15.5	15.4	15.1	15.7	18.0	20.5	22.6	24.2	25.2	25.9	26.7	27.2	27.5	27.3	26.1	24.4	22.3	20.7	20.0	19.4	18.5	21.1	27.5	15.1
02	17.5	16.6	16.2	16.3	16.6	15.8	16.5	19.7	22.2	24.4	26.0	27.2	27.9	28.7	29.0	28.7	28.6	27.4	25.2	24.1	22.6	20.9	20.1	18.9	22.4	29.0	15.8
03	18.1	17.5	17.2	16.8	15.9	15.3	15.6	18.8	21.9	23.8	25.1	25.7	26.2	26.5	26.8	26.6	26.3	25.0	22.6	21.2	19.9	18.8	17.8	17.2	21.1	26.8	15.3
04	16.7	16.8	16.3	15.7	14.5	13.6	14.1	16.5	18.6	21.0	22.7	23.9	24.8	25.5	25.5	25.4	25.0	23.9	22.6	21.8	21.6	20.3	19.3	18.5	20.2	25.5	13.6
05	17.4	16.7	15.7	15.1	15.4	15.7	15.9	16.8	18.8	20.7	22.1	23.7	25.0	25.7	26.2	26.5	26.0	24.8	23.8	23.0	22.3	21.5	20.8	20.1	20.8	26.5	15.1
06	19.6	18.9	18.3	17.9	17.6	17.0	17.0	18.6	20.7	23.2	24.5	25.4	26.8	28.3	29.3	30.1	29.3	27.6	26.1	24.9	24.2	23.4	22.9	22.6	23.1	30.1	17.0
07	22.3	21.7	21.0	20.5	19.7	18.7	18.3	19.8	21.7	23.4	25.3	27.2	28.5	29.3	29.9	29.8	28.6	26.6	25.0	24.3	23.9	23.7	23.5	23.0	24.0	29.9	18.3
08	23.1	20.4	17.7	15.3	13.9	13.7	13.2	14.9	15.9	17.1	19.6	20.6	21.4	22.5	23.0	23.2	23.1	19.4	16.7	14.9	13.5	13.3	13.0	13.1	17.6	23.2	13.0
09	13.0	13.2	12.8	12.5	12.4	12.5	13.0	14.6	16.1	17.9	18.7	18.6	19.5	19.4	19.5	20.1	20.3	19.9	17.8	16.3	15.2	14.0	13.7	14.3	16.1	20.3	12.4
10	14.9	14.9	14.7	14.5	14.5	14.4	14.2	14.6	15.2	15.7	16.9	18.4	19.9	21.4	22.4	22.8	22.6	21.2	19.6	18.0	17.0	15.8	15.0	14.3	17.2	22.8	14.2
11	13.8	13.2	12.4	11.7	12.6	14.2	15.2	16.3	18.2	20.1	22.6	24.4	25.9	27.4	28.5	28.7	28.5	26.2	23.4	22.0	19.8	18.8	17.4	16.7	19.9	28.7	11.7
12	15.6	14.7	13.7	13.1	11.8	11.6	13.9	18.5	22.2	24.6	26.4	27.1	27.4	27.7	27.9	28.0	27.3	25.0	22.1	19.4	18.2	17.6	17.2	16.5	20.3	28.0	11.6
13	14.3	14.7	14.9	15.1	14.9	13.8	12.3	15.9	18.8	20.8	22.1	23.5	24.6	25.6	26.3	26.9	26.6	24.3	21.6	19.6	18.2	16.8	16.6	16.8	19.4	26.9	12.3
14	15.6	15.3	14.5	13.9	13.5	12.9	12.9	14.8	18.7	23.1	26.9	29.6	30.7	31.2	31.4	31.4	30.8	28.5	25.5	25.0	24.4	22.8	19.9	17.7	22.1	31.4	12.9
15	17.0	16.4	15.6	14.1	13.1	11.9	12.7	15.3	17.7	20.4	23.0	24.8	26.3	27.4	28.2	28.4	28.0	26.0	23.8	22.5	21.4	19.3	17.2	17.1	20.3	28.4	11.9
16	16.8	16.3	16.0	15.4	14.8	14.5	14.3	15.9	18.7	22.1	25.3	28.2	29.8	30.8	31.6	31.6	31.1	28.4	25.6	23.5	21.6	20.1	19.1	17.9	22.1	31.6	14.3
17	16.8	16.1	14.9	14.1	13.8	13.4	13.7	16.9	22.5	28.8	30.6	30.8	31.4	31.6	32.1	32.0	30.7	25.3	20.0	18.3	16.6	15.0	14.0	12.7	21.3	32.1	12.7
18	10.8	9.6	8.7	7.5	6.5	5.5	5.5	8.1	9.7	11.6	13.8	15.3	16.4	17.1	17.6	17.7	17.2	15.6	14.1	12.7	11.2	10.8	9.9	8.5	11.7	17.7	5.5
19	8.5	7.7	6.9	4.7	4.7	1.9	3.4	8.7	12.7	14.5	15.8	16.8	17.7	18.5	19.1	19.4	19.2	17.7	16.3	15.6	14.4	13.0	12.3	11.9	12.6	19.4	1.9
20	11.6	10.9	10.5	10.3	9.7	8.6	8.3	10.5	15.2	20.1	25.0	27.7	28.9	29.5	29.8	29.8	28.8	26.7	24.6	24.6	20.9	19.6	16.2	15.1	19.3	29.8	8.3
21	14.5	13.7	12.9	11.0	10.1	10.2	8.7	14.9	19.7	22.7	25.7	27.7	28.4	29.2	29.4	29.2	28.6	25.5	22.5	21.3	19.8	18.7	17.1	16.3	19.9	29.4	8.7
22	15.7	14.6	12.7	9.4	7.7	7.8	11.5	15.4	20.9	25.6	27.6	28.1	28.3	28.7	29.0	28.7	27.8	24.8	23.2	21.8	19.7	18.3	16.4	15.6	20.0	29.0	7.7
23	14.6	14.4	14.1	13.3	12.6	9.6	8.8	10.9	15.6	18.3	20.8	22.3	24.0	24.8	25.3	25.5	25.3	23.9	22.1	21.0	19.7	19.1	17.9	17.4	18.4	25.5	8.8
24	15.8	14.9	13.7	13.6	13.3	12.5	12.9	15.6	19.5	22.9	24.9	26.3	27.0	27.5	28.0	28.3	27.4	24.7	22.8	20.9	21.3	21.2	20.1	19.3	20.6	28.3	12.5
25	18.5	17.5	15.6	14.8	14.5	14.0	13.7	15.5	18.0	22.2	26.2	28.1	29.0	29.9	30.8	30.4	29.3	26.3	24.3	23.2	23.6	22.8	22.1	21.1	22.1	30.8	13.7
26	20.2	18.9	17.8	17.0	16.6	16.1	16.2	16.2	15.3	16.3	18.1	19.8	21.1	22.2	22.8	22.7	22.0	20.4	18.2	16.0	15.2	12.1	9.6	8.8	17.5	22.8	8.8
27	7.8	6.4	5.8	6.0	5.2	4.4	3.8	3.9	3.8	3.4	3.5	3.6	4.2	4.5	5.0	5.7	5.8	6.0	6.0	5.8	5.7	5.4	5.1	5.2	5.1	7.8	3.4
28	5.1	5.1	5.3	5.5	5.6	5.6	5.8	6.4	7.4	8.6	9.6	10.6	11.3	12.1	12.8	13.1	12.8	11.6	10.4	9.7	8.9	8.7	8.2	6.1	8.6	13.1	5.1
29	5.5	5.2	5.2	5.4	5.4	5.0	3.9	4.4	8.1	10.6	12.4	13.9	15.4	16.6	17.2	18.2	18.1	15.5	13.3	12.6	12.5	11.5	11.0	10.3	10.7	18.2	3.9
30	9.3	8.2	8.4	8.0	6.4	6.4	7.1	11.0	14.3	16.1	17.0	17.9	19.2	19.6	19.9	19.9	18.8	16.3	14.7	13.0	12.1	11.5	10.7	10.4	13.2	19.9	6.4
31	9.9	8.8	8.4	7.5	7.9	7.7	6.2	8.1	12.5	15.2	17.3	19.1	20.8	21.8	22.5	22.5	21.7	19.3	17.6	16.1	14.5	13.8	13.8	12.9	14.4	22.5	6.2
MEAN	14.7	14.0	13.3	12.6	12.1	11.6	11.8	14.1	16.8	19.3	21.3	22.6	23.7	24.4	25.0	25.1	24.6	22.6	20.5	19.2	18.1	17.1	16.0	15.3	18.2		
MAX	23.1	21.7	21.0	20.5	19.7	18.7	18.3	19.8	22.5	28.8	30.6	30.8	31.4	31.6	32.1	32.0	31.1	28.5	26.1	25.0	24.4	23.7	23.5	23.0		32.1	
MIN	5.1	5.1	5.2	4.7	4.7	1.9	3.4	3.9	3.8	3.4	3.5	3.6	4.2	4.5	5.0	5.7	5.8	6.0	6.0	5.8	5.7	5.4	5.1	5.2			1.9

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 18.2 Deg C

MAXIMUM 10M TEMPERATURE WAS 32.1 Deg C ON 10/17 AT 1500

MAXIMUM DAILY MEAN WAS 24.0 Deg C ON 10/ 7

MINIMUM 10M TEMPERATURE WAS 1.9 Deg C ON 10/19 AT 600

MINIMUM DAILY MEAN WAS 5.1 Deg C ON 10/27

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M TEMPERATURE in Deg C for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	12.2	12.0	11.4	11.1	10.3	9.8	9.6	10.8	13.5	17.0	20.4	23.2	25.1	26.2	26.9	27.2	26.3	23.5	21.1	19.7	18.8	17.7	17.0	15.7	17.8	27.2	9.6
02	14.7	13.8	12.8	12.0	11.2	10.6	10.1	11.1	15.5	17.5	13.9	14.0	13.5	12.5	11.7	11.0	9.1	7.7	6.6	5.3	4.3	3.5	2.5	1.0	10.2	17.5	1.0
03	.2	-.2	-1.6	-2.2	-2.3	-3.4	-3.8	-.3	3.9	5.8	7.2	8.7	10.0	10.9	11.4	11.7	11.4	10.1	9.0	7.9	7.1	6.2	5.8	4.3	4.9	11.7	-3.8
04	4.8	5.2	4.7	4.0	3.9	2.8	3.0	5.7	8.4	10.8	12.6	14.9	16.8	17.8	18.5	18.7	17.8	15.8	14.3	12.6	12.0	10.7	9.9	9.4	10.6	18.7	2.8
05	9.4	9.4	9.0	8.2	8.2	7.6	7.0	8.3	12.1	15.6	18.8	21.4	23.6	25.7	25.6	23.5	20.7	18.1	16.6	15.3	14.4	13.6	12.1	11.2	14.8	25.7	7.0
06	8.5	7.1	6.5	5.8	6.5	6.1	6.3	8.2	11.6	15.1	17.4	18.4	19.4	20.4	20.8	20.9	20.0	17.6	16.8	16.3	15.8	15.4	14.7	14.4	13.8	20.9	5.8
07	13.7	13.2	12.8	14.9	15.1	13.6	11.1	11.9	13.8	18.0	20.1	21.6	22.4	23.2	23.4	23.5	22.7	20.3	19.0	17.5	16.0	16.0	15.9	13.9	17.2	23.5	11.1
08	12.2	10.9	9.1	6.7	4.7	5.1	4.7	5.6	8.5	11.1	11.9	12.8	13.4	13.9	14.8	15.1	14.4	12.0	10.1	8.3	6.8	5.9	4.9	3.9	9.5	15.1	3.9
09	3.6	3.1	2.9	2.7	2.5	2.0	1.6	3.3	5.2	7.0	8.8	9.7	10.5	11.3	11.9	11.9	11.0	9.4	9.2	7.8	6.8	5.0	3.9	3.2	6.4	11.9	1.6
10	2.6	2.0	1.7	.8	-.7	1.8	-.2	2.8	7.5	10.6	11.5	12.6	13.3	13.6	13.7	13.6	12.5	9.2	7.1	6.0	5.2	4.8	3.5	4.0	6.6	13.7	-.7
11	4.0	2.8	1.8	1.1	1.4	.7	.7	2.4	5.7	10.5	13.0	14.4	15.7	16.6	17.9	18.1	16.8	14.7	13.1	12.1	11.0	9.9	9.5	11.0	9.4	18.1	.7
12	9.9	9.2	8.4	8.3	8.9	10.0	10.3	10.8	13.1	17.8	20.5	22.5	22.3	22.5	22.2	22.0	21.0	19.1	17.9	16.9	17.9	17.3	16.0	14.8	15.8	22.5	8.3
13	15.5	14.7	14.7	14.6	13.3	12.5	11.9	13.1	16.2	19.3	20.8	21.4	22.1	22.2	22.6	22.4	21.5	20.1	19.8	18.5	16.6	16.6	16.3	16.9	17.7	22.6	11.9
14	17.4	16.8	16.1	15.0	15.0	15.6	15.2	16.0	16.9	18.4	19.1	20.5	21.4	21.8	21.7	21.6	20.9	19.7	18.3	16.6	15.2	14.0	14.0	13.1	17.5	21.8	13.1
15	12.4	12.4	10.2	8.3	9.1	8.0	7.0	9.0	13.7	17.0	18.9	20.1	20.9	21.1	21.2	20.8	19.5	17.6	15.8	14.3	12.7	10.4	8.7	8.6	14.1	21.2	7.0
16	9.0	9.0	8.7	6.7	4.1	4.1	.9	4.1	10.3	13.2	16.1	18.0	18.3	18.7	18.1	16.7	14.6	11.9	10.1	8.4	7.3	6.0	4.5	2.8	10.1	18.7	.9
17	1.4	.6	-.4	-1.4	-2.0	-2.6	-2.6	-.6	1.8	4.5	6.4	7.9	9.6	10.7	11.3	11.4	10.7	8.4	7.4	7.0	6.8	6.5	5.6	4.3	4.7	11.4	-2.6
18	3.6	3.3	3.4	3.2	2.7	2.7	1.9	2.7	6.4	9.5	13.1	15.5	17.7	20.3	22.3	22.4	21.2	18.8	17.6	15.6	15.7	10.6	9.6	9.1	11.2	22.4	1.9
19	8.9	8.3	7.1	7.1	5.6	4.6	5.1	5.9	10.8	14.6	18.8	20.9	21.3	21.6	22.1	21.8	20.7	18.8	17.8	17.4	16.9	15.8	15.5	15.0	14.3	22.1	4.6
20	14.5	14.3	13.0	12.5	12.9	13.4	14.4	14.2	9.6	10.5	12.5	13.7	14.9	15.8	16.2	16.7	15.8	13.5	11.4	9.8	8.9	7.5	6.8	7.0	12.5	16.7	6.8
21	8.5	9.1	9.1	8.5	8.3	8.4	8.0	7.8	7.7	7.7	8.2	8.5	9.0	10.2	11.6	13.6	13.4	11.2	10.3	11.0	10.5	12.0	9.9	9.0	9.6	13.6	7.7
22	7.9	7.8	7.4	8.1	8.2	7.0	6.4	8.7	11.9	14.7	16.8	18.2	19.1	19.5	19.7	19.6	18.8	17.8	16.9	12.9	9.9	9.1	8.6	7.7	12.6	19.7	6.4
23	6.8	6.3	5.4	5.5	5.9	6.1	6.6	4.8	9.7	13.5	16.1	18.2	19.1	19.5	19.8	19.6	18.4	16.2	14.7	13.6	13.1	12.9	11.7	9.9	12.2	19.8	4.8
24	8.7	8.8	7.7	7.0	7.3	7.5	7.3	8.2	11.2	14.3	16.0	17.9	20.0	21.2	21.3	21.1	20.2	18.0	15.3	14.6	13.4	12.8	12.2	11.4	13.5	21.3	7.0
25	10.7	10.5	9.9	10.0	10.2	10.2	9.1	9.6	10.2	10.6	9.9	9.8	12.3	13.3	14.1	13.8	13.5	12.2	12.3	11.5	11.0	10.1	9.3	9.5	11.0	14.1	9.1
26	8.4	8.5	7.2	5.9	5.3	7.1	7.2	8.4	7.8	6.8	7.7	7.8	8.5	8.8	8.9	8.3	7.3	6.1	4.8	3.7	1.8	-.5	-2.3	-3.1	5.9	8.9	-3.1
27	-4.0	-4.2	-5.0	-5.8	-5.9	-5.8	-5.4	-3.2	2.8	6.3	7.8	9.3	10.7	12.1	12.7	13.0	12.3	10.2	8.3	7.3	7.4	6.3	4.5	2.9	3.9	13.0	-5.9
28	2.6	2.9	2.2	1.7	1.4	1.2	1.4	3.4	10.0	14.2	16.6	18.4	20.4	21.7	22.2	22.1	20.4	18.1	16.4	13.9	12.4	11.8	7.1	5.6	11.2	22.2	1.2
29	7.4	9.1	9.2	8.1	6.6	5.3	4.4	5.1	6.8	8.2	9.4	10.5	12.0	12.8	13.1	13.0	12.4	10.0	7.6	6.5	5.3	5.0	4.6	3.9	8.2	13.1	3.9
30	3.2	2.3	2.6	2.8	2.1	1.8	2.3	2.6	5.1	8.7	10.9	12.3	13.8	14.9	15.6	16.0	14.7	12.4	10.8	9.1	7.8	8.2	7.2	6.2	8.1	16.0	1.8
MEAN	8.0	7.6	6.9	6.4	6.0	5.8	5.4	6.7	9.6	12.3	14.0	15.4	16.6	17.4	17.8	17.7	16.7	14.6	13.2	11.9	11.0	10.0	9.0	8.2	11.2		
MAX	17.4	16.8	16.1	15.0	15.1	15.6	15.2	16.0	16.9	19.3	20.8	23.2	25.1	26.2	26.9	27.2	26.3	23.5	21.1	19.7	18.8	17.7	17.0	16.9		27.2	
MIN	-4.0	-4.2	-5.0	-5.8	-5.9	-5.8	-5.4	-3.2	1.8	4.5	6.4	7.8	8.5	8.8	8.9	8.3	7.3	6.1	4.8	3.7	1.8	-.5	-2.3	-3.1			-5.9

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 11.2 Deg C

MAXIMUM 10M TEMPERATURE WAS 27.2 Deg C ON 11/ 1 AT 1600

MAXIMUM DAILY MEAN WAS 17.8 Deg C ON 11/ 1

MINIMUM 10M TEMPERATURE WAS -5.9 Deg C ON 11/27 AT 500

MINIMUM DAILY MEAN WAS 3.9 Deg C ON 11/27

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

10M TEMPERATURE in Deg C for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	5.4	4.5	3.9	4.0	3.9	4.3	4.0	4.5	7.0	8.3	10.5	12.9	13.1	12.7	12.1	10.8	8.9	7.5	5.5	4.2	3.4	2.6	1.8	1.2	6.5	13.1	1.2
02	.7	.4	-.5	-.9	-1.2	-1.3	-1.4	-1.4	-1.3	-1.0	-.8	-.6	-.3	-.2	-.1	.0	.0	.0	.2	.2	.3	.3	.3	.4	-.3	.7	-1.4
03	.5	.7	.8	1.2	1.2	1.1	.6	.6	2.9	6.5	10.4	12.0	13.3	13.6	13.3	13.1	11.5	9.5	8.8	6.3	3.8	2.2	1.2	.0	5.6	13.6	.0
04	-.9	-1.3	-1.7	-1.6	-1.8	-1.6	-1.6	-1.2	-.6	.4	1.7	2.7	3.4	4.3	4.9	4.9	4.8	3.9	3.7	3.2	1.9	.1	.2	.0	1.2	4.9	-1.8
05	-.1	-.7	-.9	-1.1	-1.3	-1.8	-2.1	-2.0	-2.0	-2.1	-2.0	-1.9	-2.5	-2.9	-3.4	-4.1	-4.9	-5.6	-6.1	-6.5	-6.8	-7.1	-7.2	-7.6	-3.4	-.1	-7.6
06	-8.0	-8.5	-9.2	-11	-12	-10	-11	-9.7	-9.7	-9.2	-8.2	-6.8	-5.6	-4.4	-2.8	-2.6	-3.7	-4.6	-5.2	-5.9	-5.7	-5.4	-5.4	-7.0	-2.3	-12	
07	-6.9	-7.3	-7.7	-6.8	-6.6	-6.2	-5.4	-3.2	-.5	2.0	3.6	5.4	6.6	7.9	8.6	8.5	7.4	5.8	5.3	4.4	4.0	2.8	1.3	1.1	1.0	8.6	-7.7
08	.5	-.5	-.6	-.9	-1.2	-1.7	-2.0	-2.6	-.5	1.5	4.6	8.1	10.4	11.9	12.9	13.3	12.0	10.4	9.6	8.0	6.8	4.3	1.9	1.1	4.5	13.3	-2.6
09	.2	-.5	-.4	-1.0	-1.2	-1.6	-1.8	-.9	1.3	3.1	5.1	6.6	7.5	8.2	8.4	8.2	7.1	5.1	2.9	1.5	1.0	.0	-.7	-1.0	2.4	8.4	-1.8
10	-2.2	-2.7	-3.4	-3.1	-3.1	-3.3	-3.6	-3.5	-3.2	-2.8	-2.4	-2.3	-2.0	-1.8	-1.7	-1.7	-1.5	-1.3	-1.0	-.5	-.2	-.1	.1	.2	-2.0	.2	-3.6
11	.4	.5	.6	.7	.9	1.3	1.7	2.1	2.8	3.2	3.5	3.8	3.8	3.9	4.0	4.0	4.0	4.0	3.8	3.7	3.6	3.5	3.4	3.5	2.8	4.0	.4
12	3.7	3.7	3.7	3.9	4.1	4.2	4.3	4.4	4.6	5.0	5.3	5.8	6.0	6.3	6.3	6.6	7.0	7.0	6.9	6.9	6.8	6.7	6.8	6.8	5.5	7.0	3.7
13	6.8	6.9	7.1	7.4	7.7	8.1	8.1	8.3	8.2	8.3	8.5	8.8	9.6	11.0	12.0	12.1	11.6	11.2	11.1	11.2	10.9	10.6	10.5	9.5	12.1	6.8	6.8
14	10.4	10.3	10.3	10.2	9.7	8.9	8.1	7.5	8.2	9.3	11.5	13.8	14.1	13.9	15.7	15.5	14.1	11.1	10.2	8.2	7.3	5.7	5.5	4.4	10.2	15.7	4.4
15	4.0	3.1	2.7	2.4	1.9	2.9	1.8	2.6	4.8	6.1	7.1	8.0	9.8	10.0	9.7	9.3	8.3	7.4	6.8	6.0	5.1	3.8	2.7	2.0	5.3	10.0	1.8
16	1.5	.6	.2	-.4	-.4	-1.2	-1.1	-.8	1.1	3.0	5.1	6.4	7.3	8.3	8.8	8.8	8.5	7.9	6.9	5.6	5.0	4.4	3.5	3.6	3.9	8.8	-1.2
17	3.9	3.8	2.7	1.4	1.8	.4	1.3	3.3	4.8	6.3	7.2	8.0	8.6	9.0	9.1	9.4	9.5	9.1	8.7	8.1	8.0	8.1	8.0	7.9	6.2	9.5	.4
18	7.7	7.8	7.5	7.3	7.6	7.3	7.0	6.6	6.4	6.8	7.7	8.4	9.3	10.6	11.1	10.1	9.5	8.4	7.8	7.8	7.8	7.9	7.5	8.0	8.1	11.1	6.4
19	8.8	9.1	8.9	9.2	8.9	7.9	7.5	7.4	7.2	8.0	9.0	9.4	9.8	9.3	9.8	10.0	8.9	6.4	4.4	3.1	2.0	1.6	1.2	1.0	7.0	10.0	1.0
20	.4	.0	.4	-.1	-.7	-1.0	-.9	-.5	.8	1.6	2.6	3.7	4.9	5.9	6.3	6.4	5.9	4.9	3.7	3.8	3.4	2.0	1.5	.7	2.3	6.4	-1.0
21	.7	-.1	.0	-.2	-.3	-1.0	-1.6	-1.8	.6	3.0	5.9	8.6	10.3	12.3	14.1	14.1	12.7	10.5	8.4	7.2	7.3	6.4	5.1	4.9	5.3	14.1	-1.8
22	3.4	3.7	2.8	2.4	1.2	.6	.9	.9	1.7	2.8	3.8	4.5	4.8	5.4	5.7	4.5	2.0	1.1	.7	.4	.2	-.4	-1.0	-1.1	2.1	5.7	-1.1
23	-1.4	-1.9	-1.9	-2.0	-2.0	-2.2	-2.4	-2.6	-2.7	-2.5	-2.4	-2.1	-1.8	-1.2	-2.0	-1.9	-1.8	-1.7	-1.9	-2.2	-2.1	-1.8	-1.9	-2.4	-2.0	-1.2	-2.7
24	-2.7	-2.9	-3.0	-3.3	-3.4	-3.4	-3.0	-2.9	-2.7	-2.5	-2.0	-1.6	-1.4	-.8	-.5	-.3	-.5	-.7	-.9	-1.1	-1.1	-1.0	-.8	-.3	-1.8	-.3	-3.4
25	-.7	-1.5	-1.5	-.8	-.7	-1.0	-1.1	-.8	-.5	-.1	.1	.1	.7	.7	.8	.9	.6	.4	.3	.2	.0	-.3	-.6	-.9	-.2	.9	-1.5
26	-1.3	-1.1	-1.5	-2.3	-2.9	-3.3	-5.1	-6.3	-4.3	-1.7	2.0	3.4	3.6	4.7	5.4	6.1	5.4	4.5	3.6	2.9	2.0	.3	-.2	-.2	.6	6.1	-6.3
27	-.4	1.5	1.4	.2	-1.0	-2.5	-3.7	-3.1	.0	3.0	5.7	7.3	7.7	8.0	8.3	8.4	7.8	5.8	6.0	5.4	3.4	3.5	2.7	2.5	3.2	8.4	-3.7
28	2.0	3.6	3.5	1.1	1.0	2.6	3.4	3.1	5.7	7.5	8.9	9.9	11.0	12.2	13.0	13.3	12.7	10.7	9.7	8.0	6.4	4.8	5.3	6.1	6.9	13.3	1.0
29	6.4	4.1	3.4	2.8	2.2	2.5	2.5	2.1	5.5	10.3	15.3	17.5	18.4	19.9	20.2	20.2	18.5	15.8	13.4	11.0	10.2	10.0	9.2	7.6	10.4	20.2	2.1
30	6.6	8.9	6.1	5.2	6.7	6.2	6.0	6.6	9.2	11.6	12.9	13.5	14.7	15.6	16.0	16.0	14.8	12.0	10.2	8.9	7.9	7.6	6.9	7.4	9.9	16.0	5.2
31	8.4	8.7	8.6	7.1	6.0	5.1	5.1	4.4	7.2	10.3	16.8	21.5	23.0	23.7	24.0	23.6	21.6	19.3	15.0	14.5	12.5	9.1	6.9	5.1	12.8	24.0	4.4
MEAN	1.9	1.7	1.4	1.0	.8	.6	.5	.7	2.0	3.4	5.1	6.3	7.0	7.7	8.1	8.0	7.2	6.0	5.1	4.4	3.7	3.0	2.4	2.2	3.8		
MAX	10.4	10.3	10.3	10.2	9.7	8.9	8.1	8.3	9.2	11.6	16.8	21.5	23.0	23.7	24.0	23.6	21.6	19.3	15.0	14.5	12.5	10.9	10.6	10.5		24.0	
MIN	-8.0	-8.5	-9.2	-11	-12	-10	-11	-9.7	-9.7	-9.2	-8.2	-6.8	-5.6	-4.4	-3.4	-4.1	-4.9	-5.6	-6.1	-6.5	-6.8	-7.1	-7.2	-7.6			-12

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 3.8 Deg C

MAXIMUM 10M TEMPERATURE WAS 24.0 Deg C ON 12/31 AT 1500

MAXIMUM DAILY MEAN WAS 12.8 Deg C ON 12/31

MINIMUM 10M TEMPERATURE WAS -12 Deg C ON 12/ 6 AT 500

MINIMUM DAILY MEAN WAS -7.0 Deg C ON 12/ 6

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M TEMPERATURE in Deg C for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	17.4	16.6	16.7	17.1	17.3	16.9	16.6	17.8	20.0	22.0	23.5	24.3	25.1	26.0	26.5	26.9	26.9	26.3	25.5	23.5	22.5	21.9	20.7	19.7	21.6	26.9	16.6
02	19.2	18.6	18.6	18.8	18.8	18.1	17.9	19.4	21.7	23.8	25.3	26.4	27.2	28.0	28.4	28.3	28.2	27.3	25.9	24.9	23.9	22.3	20.9	19.7	23.0	28.4	17.9
03	19.0	18.2	18.0	17.7	17.0	16.4	16.5	18.4	21.3	23.2	24.5	25.0	25.5	25.9	26.1	26.1	26.0	25.0	23.4	22.2	21.2	20.1	19.3	18.6	21.4	26.1	16.4
04	18.2	17.9	17.2	16.5	15.4	14.6	14.2	16.1	18.1	20.4	22.0	23.1	24.1	24.7	25.0	24.9	24.7	23.7	22.7	21.9	21.5	20.2	19.1	18.3	20.2	25.0	14.2
05	17.2	16.6	16.0	15.4	15.6	15.6	15.7	16.5	18.1	20.0	21.3	22.9	24.1	24.9	25.5	25.9	25.7	24.7	23.7	22.9	22.2	21.4	20.7	20.0	20.5	25.9	15.4
06	19.6	19.0	18.5	18.1	17.6	17.0	16.8	18.2	20.1	22.5	23.7	24.6	26.0	27.4	28.6	29.5	29.0	27.5	26.0	24.8	24.1	23.3	22.8	22.5	22.8	29.5	16.8
07	22.2	21.7	21.0	20.5	19.7	18.7	18.1	19.3	21.1	22.7	24.5	26.4	27.8	28.6	29.2	29.2	28.2	26.4	24.9	24.1	23.7	23.6	23.4	22.9	23.7	29.2	18.1
08	22.9	20.4	18.3	15.5	14.1	14.3	13.1	14.3	15.3	16.4	18.8	19.9	20.7	21.7	22.3	22.8	22.7	19.0	16.4	14.8	13.3	13.0	12.8	12.8	17.3	22.9	12.8
09	12.8	13.0	12.5	12.2	12.2	12.2	12.7	14.1	15.5	17.2	18.0	18.1	18.8	18.8	18.8	19.6	19.9	19.7	18.1	16.8	15.6	14.4	13.6	14.0	15.8	19.9	12.2
10	14.5	14.6	14.4	14.2	14.2	14.0	13.8	14.2	14.7	15.2	16.3	17.6	19.2	20.7	21.8	22.2	22.2	21.0	19.4	18.0	17.0	16.0	14.9	14.1	16.8	22.2	13.8
11	13.6	13.1	12.6	12.4	12.9	14.3	15.2	15.9	17.6	19.5	21.8	23.6	25.1	26.6	27.7	28.1	28.3	27.3	25.0	23.6	20.5	19.2	18.0	17.2	20.0	28.3	12.4
12	16.2	15.8	15.8	16.1	16.6	16.0	15.9	18.1	21.5	23.7	25.3	26.0	26.4	26.8	27.2	27.3	27.0	26.0	24.0	22.0	20.8	19.5	18.5	17.5	21.3	27.3	15.8
13	15.8	15.4	15.8	16.2	16.3	15.5	14.2	15.5	18.3	20.2	21.4	22.7	23.8	24.7	25.6	26.3	26.3	25.5	24.2	22.1	20.6	19.3	18.6	18.0	20.1	26.3	14.2
14	17.3	16.4	15.3	14.8	14.7	13.9	13.7	14.5	18.1	22.4	26.3	28.9	29.9	30.5	30.8	30.9	30.7	30.0	27.5	26.7	25.6	23.9	21.4	21.0	22.7	30.9	13.7
15	20.4	19.3	18.0	16.0	14.6	12.6	12.7	14.7	17.0	19.8	22.1	24.0	25.5	26.7	27.6	27.8	27.7	26.3	25.8	24.1	22.7	21.1	18.8	18.7	21.0	27.8	12.6
16	18.7	17.6	17.0	15.9	15.5	15.4	15.3	15.6	18.2	21.5	24.7	27.5	29.0	30.1	30.9	31.1	31.0	30.1	28.1	26.2	22.6	21.4	20.3	19.1	22.6	31.1	15.3
17	17.8	17.1	15.9	15.0	14.8	14.5	15.7	17.1	22.2	28.1	29.7	29.8	30.4	30.6	31.2	31.4	30.5	25.1	19.7	18.1	16.4	14.9	13.9	12.6	21.4	31.4	12.6
18	10.7	9.5	8.6	7.4	6.8	6.2	6.0	7.5	8.9	10.7	12.8	14.1	15.2	16.1	16.7	17.0	16.8	16.0	15.5	14.3	13.1	12.8	12.0	10.5	11.9	17.0	6.0
19	11.4	10.8	10.2	10.1	10.3	9.7	8.8	9.4	12.2	13.9	15.2	16.1	17.0	17.8	18.5	18.9	18.9	18.5	17.5	16.8	15.5	14.0	13.2	13.5	14.1	18.9	8.8
20	12.3	11.9	11.7	11.1	10.5	10.3	9.4	10.3	14.6	19.3	24.2	26.8	27.9	28.6	29.0	29.2	28.9	27.5	27.3	27.0	22.4	21.4	19.0	18.2	19.9	29.2	9.4
21	16.9	17.5	14.1	14.1	12.7	12.8	11.7	14.7	19.2	22.2	25.1	27.1	27.9	28.5	28.9	28.7	28.5	26.5	23.7	23.2	21.1	19.3	18.1	17.2	20.8	28.9	11.7
22	17.1	15.9	14.8	13.3	13.2	15.0	16.5	16.1	20.4	24.8	26.8	27.1	27.2	27.7	28.2	28.2	27.9	26.7	25.9	25.4	23.8	21.2	18.8	18.2	21.7	28.2	13.2
23	16.6	16.8	16.3	14.9	13.3	11.8	10.9	10.6	15.1	17.8	20.1	21.8	23.3	24.2	24.8	25.0	25.0	24.6	24.1	23.3	22.8	21.1	18.9	17.9	19.2	25.0	10.6
24	16.5	15.4	15.0	15.2	14.6	14.0	13.6	15.3	19.0	22.3	24.2	25.6	26.2	26.8	27.4	27.8	27.3	25.6	23.8	22.1	21.8	21.2	20.2	19.5	20.9	27.8	13.6
25	18.7	17.9	16.9	16.4	15.7	14.8	14.5	15.3	17.6	21.5	25.5	27.3	28.1	29.2	30.0	29.9	29.4	28.1	26.6	25.3	25.2	23.3	22.2	21.2	22.5	30.0	14.5
26	20.4	19.5	18.5	17.4	17.1	16.9	17.7	16.5	14.4	15.4	17.1	18.8	20.1	21.3	22.0	22.0	21.7	20.3	18.0	15.8	15.0	11.7	9.4	8.5	17.3	22.0	8.5
27	7.5	6.1	5.5	5.7	4.9	4.2	3.5	3.6	3.4	3.0	3.0	3.2	3.7	4.0	4.5	5.2	5.4	5.7	5.7	5.5	5.4	5.1	4.8	4.9	4.7	7.5	3.0
28	4.8	4.8	5.1	5.2	5.3	5.3	5.5	6.0	6.8	7.9	8.9	9.9	10.7	11.5	12.2	12.6	12.5	11.8	11.5	11.2	10.3	9.1	8.8	8.1	8.6	12.6	4.8
29	8.0	8.0	7.9	7.4	6.7	5.5	4.8	4.4	7.6	10.0	11.6	13.2	14.6	15.9	16.6	17.7	18.1	17.1	16.0	14.2	13.6	12.4	11.6	11.0	11.4	18.1	4.4
30	9.9	9.5	10.2	9.4	8.9	9.2	9.9	10.9	13.7	15.2	16.0	16.9	18.3	18.8	19.2	19.3	18.7	17.6	17.0	15.6	14.5	13.4	12.3	11.9	14.0	19.3	8.9
31	11.5	10.3	9.9	9.6	9.5	9.4	9.2	9.7	12.0	14.6	16.6	18.4	20.1	21.1	22.0	22.0	21.8	21.0	20.3	18.4	15.9	15.2	14.6	13.9	15.3	22.0	9.2
MEAN	15.6	15.0	14.4	13.9	13.4	13.1	12.9	13.9	16.3	18.6	20.5	21.8	22.9	23.7	24.3	24.6	24.4	23.2	21.7	20.5	19.2	17.9	16.8	16.2	18.5		
MAX	22.9	21.7	21.0	20.5	19.7	18.7	18.1	19.4	22.2	28.1	29.7	29.8	30.4	30.6	31.2	31.4	31.0	30.1	28.1	27.0	25.6	23.9	23.4	22.9		31.4	
MIN	4.8	4.8	5.1	5.2	4.9	4.2	3.5	3.6	3.4	3.0	3.0	3.2	3.7	4.0	4.5	5.2	5.4	5.7	5.7	5.5	5.4	5.1	4.8	4.9			3.0

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 18.5 Deg C

MAXIMUM 40M TEMPERATURE WAS 31.4 Deg C ON 10/17 AT 1600

MAXIMUM DAILY MEAN WAS 23.7 Deg C ON 10/ 7

MINIMUM 40M TEMPERATURE WAS 3.0 Deg C ON 10/27 AT 1000

MINIMUM DAILY MEAN WAS 4.7 Deg C ON 10/27

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M TEMPERATURE in Deg C for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	13.2	12.7	12.2	11.8	11.2	10.4	10.3	10.8	13.1	16.5	19.8	22.4	24.3	25.5	26.3	26.8	26.4	24.0	21.5	19.9	18.8	17.8	17.0	16.0	17.9	26.8	10.3
02	15.2	14.4	13.6	12.8	12.0	11.5	10.8	11.0	15.0	16.7	12.8	12.9	12.5	11.6	11.0	10.4	8.8	7.5	6.4	5.2	4.2	3.4	2.6	2.0	10.2	16.7	2.0
03	1.7	1.0	.6	1.3	1.3	1.0	.6	.7	3.4	5.3	6.6	8.2	9.3	10.2	10.8	11.2	11.0	10.3	10.1	9.5	8.5	7.3	7.1	5.6	5.9	11.2	.6
04	5.5	5.6	5.1	4.7	4.5	3.8	3.7	5.5	8.0	10.2	11.9	14.2	16.1	17.2	17.9	18.3	17.6	16.0	14.5	12.8	11.9	10.6	10.0	9.6	10.6	18.3	3.7
05	9.4	9.3	9.1	8.8	8.6	8.5	8.5	8.7	11.6	14.9	18.1	20.6	22.8	24.8	24.9	23.0	20.6	18.1	16.7	15.6	14.8	14.0	12.9	12.4	14.9	24.9	8.5
06	10.1	9.1	8.7	8.0	7.7	7.6	7.4	8.1	11.2	14.5	16.6	17.7	18.7	19.6	20.1	20.4	19.9	19.7	19.4	18.8	19.3	18.4	16.5	15.9	14.7	20.4	7.4
07	14.9	14.6	13.5	15.0	15.1	13.8	11.3	12.0	14.4	17.4	19.5	20.9	21.7	22.4	22.8	23.1	22.8	22.0	21.3	19.8	17.5	16.6	16.0	14.0	17.6	23.1	11.3
08	12.4	11.1	9.7	8.4	6.0	5.8	5.7	5.7	8.0	10.2	11.0	11.8	12.4	13.0	14.0	14.5	14.2	12.5	10.5	8.4	6.9	6.1	5.0	4.2	9.5	14.5	4.2
09	3.8	3.3	3.0	2.6	2.4	2.0	1.7	3.0	4.7	6.3	8.1	9.0	9.7	10.6	11.2	11.4	10.9	10.3	10.2	10.1	8.7	6.5	6.4	6.5	6.8	11.4	1.7
10	6.6	6.0	5.8	4.5	5.1	5.0	5.2	5.1	7.1	9.9	10.9	11.8	12.5	12.9	13.0	13.1	12.5	11.5	10.0	8.6	8.0	7.0	6.5	6.2	8.5	13.1	4.5
11	4.7	4.3	4.0	2.8	2.5	1.9	3.2	3.3	5.6	10.0	12.4	13.8	15.1	16.0	17.3	17.8	17.0	15.7	14.8	13.7	13.5	12.3	11.6	11.3	10.2	17.8	1.9
12	10.5	10.0	9.2	9.0	9.7	11.0	11.5	12.5	13.0	17.2	19.7	21.6	21.5	21.7	21.7	21.6	21.4	19.9	19.3	17.9	18.4	17.9	17.4	16.6	16.3	21.7	9.0
13	16.5	15.8	16.1	15.7	15.7	13.8	13.1	13.0	15.8	18.6	20.0	20.6	21.2	21.5	22.1	22.0	21.6	20.7	20.6	19.6	18.1	17.1	17.0	17.3	18.1	22.1	13.0
14	17.7	17.2	16.6	15.5	15.4	15.8	15.5	15.6	16.5	17.8	18.6	19.8	20.4	21.0	21.2	21.2	20.7	19.8	18.3	17.1	16.6	15.6	15.2	14.4	17.6	21.2	14.4
15	13.7	13.6	12.3	11.2	11.3	10.9	10.3	10.4	13.1	16.2	18.1	19.3	20.1	20.3	20.5	20.3	19.9	18.9	17.7	16.0	14.8	13.2	13.3	12.4	15.3	20.5	10.3
16	13.5	11.7	10.8	9.4	7.9	6.6	6.0	6.0	10.1	12.7	15.2	17.0	17.3	17.8	17.3	16.1	14.4	11.9	10.2	8.5	7.3	5.9	4.4	2.9	10.9	17.8	2.9
17	1.6	.7	.0	-1.0	-1.8	-2.2	-1.8	-.9	1.2	4.0	5.7	7.3	8.9	10.0	10.7	10.9	10.6	9.9	8.7	8.0	8.0	7.2	6.2	5.7	4.9	10.9	-2.2
18	5.3	4.7	4.3	3.8	3.7	3.6	3.4	3.2	6.2	8.9	12.3	14.8	17.0	19.6	21.6	22.0	21.4	19.8	18.6	18.2	17.0	11.5	10.7	10.2	11.7	22.0	3.2
19	9.8	9.1	7.7	6.9	6.9	6.9	6.9	8.6	10.8	14.0	18.2	20.2	20.7	21.0	21.6	21.6	20.9	19.2	18.2	17.9	17.8	17.3	17.2	17.4	14.9	21.6	6.9
20	18.5	15.9	14.8	14.0	14.7	15.8	16.7	15.3	9.2	9.7	11.6	12.9	14.1	15.1	15.6	16.1	15.8	14.1	11.9	10.1	9.0	7.6	7.0	6.8	13.0	18.5	6.8
21	8.8	9.5	9.6	8.6	8.2	8.3	7.9	7.6	7.5	7.4	8.0	8.2	8.7	9.9	11.1	12.8	13.4	12.1	11.2	12.1	12.6	12.6	11.1	10.8	9.9	13.4	7.4
22	9.7	9.3	8.9	9.3	9.3	7.9	7.5	8.7	11.3	13.9	16.0	17.2	18.2	18.7	19.1	19.1	18.8	18.4	17.7	14.2	11.3	10.4	10.2	8.3	13.1	19.1	7.5
23	7.9	7.9	8.5	8.7	8.7	8.4	8.5	8.8	9.7	13.0	15.5	17.5	18.4	18.9	19.2	19.3	18.7	18.2	17.3	17.0	15.9	14.3	13.4	11.8	13.6	19.3	7.9
24	9.9	10.1	9.8	10.0	9.1	8.7	8.6	8.8	10.8	13.7	15.4	17.2	19.3	20.6	20.9	20.8	20.6	19.5	16.7	15.1	14.1	13.2	12.4	11.7	14.0	20.9	8.6
25	11.1	11.1	10.9	11.1	10.6	10.5	10.3	10.3	10.0	10.3	9.7	9.5	11.2	12.8	13.6	13.4	13.5	13.0	13.1	12.0	11.5	10.6	9.8	10.1	11.3	13.6	9.5
26	9.4	9.6	8.2	7.2	6.8	7.2	7.1	8.1	7.3	6.2	7.1	7.2	7.8	8.0	8.3	7.8	7.1	6.1	5.0	4.1	3.3	2.4	.9	2.0	6.4	9.6	.9
27	1.3	.7	-1.2	-1.0	-1.1	-2.5	-1.9	-.7	2.4	5.6	7.1	8.4	10.0	11.4	12.1	12.6	12.4	12.0	11.0	10.8	10.6	10.6	10.1	7.2	6.2	12.6	-2.5
28	6.0	6.0	5.3	5.5	5.5	4.3	4.7	5.1	9.6	13.5	15.8	17.6	19.7	21.0	21.6	21.7	21.1	19.6	17.5	17.3	18.0	17.1	14.3	10.8	13.3	21.7	4.3
29	9.9	14.8	14.6	10.0	6.7	5.3	4.4	4.9	6.3	7.4	8.6	9.7	11.2	12.1	12.5	12.6	12.3	11.0	9.8	8.7	7.5	7.0	6.0	5.7	9.1	14.8	4.4
30	4.7	4.3	4.1	4.1	3.8	3.4	3.3	3.0	4.8	8.1	10.2	11.6	13.1	14.2	15.1	15.6	15.0	13.4	11.4	10.0	8.4	8.8	7.7	6.7	8.5	15.6	3.0
MEAN	9.4	9.1	8.5	8.0	7.6	7.2	7.0	7.4	9.2	11.7	13.3	14.7	15.8	16.6	17.2	17.2	16.7	15.5	14.3	13.2	12.4	11.3	10.5	9.7	11.8		
MAX	18.5	17.2	16.6	15.7	15.7	15.8	16.7	15.6	16.5	18.6	20.0	22.4	24.3	25.5	26.3	26.8	26.4	24.0	21.5	19.9	19.3	18.4	17.4	17.4		26.8	
MIN	1.3	.7	-1.2	-1.0	-1.8	-2.5	-1.9	-.9	1.2	4.0	5.7	7.2	7.8	8.0	8.3	7.8	7.1	6.1	5.0	4.1	3.3	2.4	.9	2.0			-2.5

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 11.8 Deg C

MAXIMUM 40M TEMPERATURE WAS 26.8 Deg C ON 11/ 1 AT 1600

MAXIMUM DAILY MEAN WAS 18.1 Deg C ON 11/13

MINIMUM 40M TEMPERATURE WAS -2.5 Deg C ON 11/27 AT 600

MINIMUM DAILY MEAN WAS 4.9 Deg C ON 11/17

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

40M TEMPERATURE in Deg C for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	6.1	5.3	5.4	5.3	4.8	5.0	5.3	5.1	6.8	7.6	9.7	12.0	12.1	11.7	11.4	10.4	8.7	7.2	5.2	3.8	3.1	2.2	1.5	.8	6.5	12.1	.8
02	.3	.0	-.9	-1.3	-1.5	-1.6	-1.6	-1.7	-1.6	-1.4	-1.1	-1.0	-.7	-.5	-.4	-.3	-.2	-.2	-.1	.0	.0	.0	.1	.2	-.6	.3	-1.7
03	.3	.4	.5	.9	.9	1.0	.9	.7	2.4	6.5	9.7	11.2	12.5	12.7	12.6	12.6	11.9	11.3	9.5	6.2	3.6	2.0	1.0	-.1	5.5	12.7	-.1
04	-.9	-1.4	-1.8	-1.8	-1.9	-1.8	-1.8	-1.6	-1.0	-.1	1.2	2.2	3.0	3.8	4.4	4.5	4.6	3.9	3.5	2.9	1.7	.1	.1	-.1	.9	4.6	-1.9
05	-.4	-1.1	-1.3	-1.4	-1.7	-2.1	-2.4	-2.3	-2.4	-2.4	-2.3	-2.3	-2.9	-3.2	-3.8	-4.5	-5.2	-5.9	-6.4	-6.8	-7.0	-7.4	-7.5	-7.9	-3.8	-.4	-7.9
06	-8.3	-8.8	-9.4	-11	-11	-11	-11	-10	-10	-9.6	-8.6	-7.2	-6.0	-4.9	-3.2	-2.6	-2.5	-3.0	-3.8	-4.2	-4.2	-4.0	-3.8	-4.3	-6.8	-2.5	-11
07	-3.8	-2.9	-3.1	-2.8	-3.3	-3.9	-2.8	-.3	2.2	2.1	3.3	5.0	6.2	7.4	8.1	8.2	7.7	7.1	6.6	6.0	5.6	5.5	4.0	3.0	2.7	8.2	-3.9
08	2.0	1.0	.5	.0	-.6	-.9	-1.3	-1.4	-.9	1.0	4.0	7.5	9.9	11.4	12.4	12.9	11.9	10.9	10.6	10.7	10.3	5.9	2.3	1.5	5.1	12.9	-1.4
09	.5	-.2	-.3	-.8	-1.0	-1.4	-1.5	-1.1	.7	2.4	4.4	5.8	6.8	7.5	7.8	7.7	7.1	5.8	3.0	2.1	2.1	1.0	.4	-.2	2.4	7.8	-1.5
10	-1.0	-2.0	-2.8	-3.2	-3.4	-3.5	-3.8	-3.7	-3.4	-3.0	-2.7	-2.6	-2.2	-2.1	-1.9	-1.9	-1.7	-1.6	-1.2	-.7	-.4	-.3	-.1	.0	-2.1	.0	-3.8
11	.1	.3	.4	.5	.7	1.1	1.5	1.9	2.6	3.0	3.2	3.5	3.5	3.6	3.7	3.8	3.8	3.8	3.7	3.5	3.3	3.3	3.2	3.3	2.6	3.8	.1
12	3.6	3.5	3.5	3.7	3.9	4.0	4.2	4.2	4.4	4.8	5.0	5.5	5.7	6.1	6.1	6.4	6.7	6.7	6.7	6.7	6.6	6.6	6.6	6.6	5.3	6.7	3.5
13	6.6	6.7	7.0	7.3	7.6	8.0	8.0	8.2	8.1	8.1	8.3	8.5	9.3	10.4	11.7	11.8	11.4	11.4	11.0	10.9	10.9	10.6	10.3	10.3	9.3	11.8	6.6
14	10.2	10.1	10.1	10.0	9.8	9.5	8.5	8.5	8.5	9.0	11.0	13.2	13.4	13.2	15.0	15.1	14.4	13.3	12.2	9.9	9.1	7.7	6.4	5.6	10.6	15.1	5.6
15	6.0	5.6	4.8	5.0	4.3	3.3	2.7	2.8	4.4	5.6	6.5	7.3	9.0	9.5	9.2	8.9	8.1	7.3	6.8	6.1	5.2	4.1	3.2	2.8	5.8	9.5	2.7
16	2.4	1.9	1.2	.8	.3	-.2	-.5	-.5	.7	2.3	4.3	5.7	6.8	7.7	8.2	8.4	8.2	7.9	7.4	6.5	5.8	5.3	4.7	4.3	4.1	8.4	-.5
17	4.3	4.5	4.6	4.0	4.1	3.7	3.7	3.9	4.5	5.9	6.8	7.5	8.1	8.6	8.8	9.1	9.2	9.0	8.7	8.6	8.4	8.1	8.1	7.7	6.7	9.2	3.7
18	7.5	7.6	7.2	7.1	7.3	7.0	6.7	6.3	6.0	6.4	7.2	7.9	8.8	10.1	10.7	9.7	9.1	8.1	7.5	7.5	7.5	7.6	7.3	7.9	7.8	10.7	6.0
19	8.7	8.9	8.8	9.0	8.7	7.7	7.6	7.2	6.9	7.5	8.3	8.6	9.0	8.6	9.1	9.5	8.6	6.1	4.1	2.8	1.9	1.5	1.2	1.0	6.7	9.5	1.0
20	.6	.3	.5	-.1	-.6	-.9	-.9	-.7	.1	.9	1.9	2.9	3.9	5.1	5.6	5.9	5.7	5.3	4.9	4.5	4.5	3.7	2.9	2.5	2.4	5.9	-.9
21	2.0	1.3	1.5	1.2	1.0	.5	.3	-.2	.7	2.5	5.3	7.9	9.7	11.7	13.5	13.7	13.0	11.7	9.7	8.3	8.5	7.7	7.3	6.8	6.1	13.7	-.2
22	5.2	5.0	4.1	3.9	2.5	1.4	1.1	.8	1.1	2.0	2.9	3.6	4.0	4.6	5.0	4.0	1.6	.7	.4	.1	-.1	-.7	-1.3	-1.5	2.1	5.2	-1.5
23	-1.8	-2.2	-2.3	-2.3	-2.3	-2.6	-2.7	-2.9	-3.1	-3.0	-2.9	-2.7	-2.4	-1.7	-2.4	-2.3	-2.1	-2.0	-2.1	-2.5	-2.4	-2.1	-2.1	-2.7	-2.4	-1.7	-3.1
24	-3.0	-3.1	-3.3	-3.6	-3.7	-3.6	-3.3	-3.2	-3.0	-2.8	-2.3	-2.0	-1.8	-1.2	-.8	-.6	-.7	-.9	-1.1	-1.3	-1.3	-1.1	-.6	-.5	-2.0	-.5	-3.7
25	-.8	-1.5	-1.5	-.9	-.8	-1.1	-1.2	-.9	-.7	-.4	.1	.4	.5	.3	.5	.5	.3	.2	.1	.0	-.2	-.4	-.6	-.9	-.4	.5	-1.5
26	-1.0	-1.2	-1.7	-2.4	-2.6	-2.7	-4.0	-5.3	-4.6	-2.0	1.6	3.0	3.1	4.2	5.0	5.7	5.4	4.9	4.7	4.9	4.4	3.0	2.8	1.8	1.1	5.7	-5.3
27	1.6	2.3	1.8	.9	.3	-.6	-1.7	-.9	.4	2.7	5.3	6.9	7.3	7.5	7.9	8.1	7.9	7.6	7.8	6.9	5.7	6.4	5.6	6.0	4.3	8.1	-1.7
28	5.5	5.8	5.5	3.9	3.5	3.8	4.3	3.5	5.4	7.0	8.2	9.1	10.3	11.5	12.4	12.9	12.8	12.0	11.3	10.5	9.0	8.2	8.2	8.6	8.1	12.9	3.5
29	8.9	8.7	8.5	6.2	4.2	4.1	5.6	5.2	5.8	9.9	14.6	16.9	17.7	19.2	19.6	19.8	19.1	17.2	15.2	13.1	12.4	12.3	11.7	11.3	12.0	19.8	4.1
30	10.4	10.9	8.7	7.8	8.6	8.0	8.5	7.9	8.9	11.2	12.4	13.0	14.1	15.0	15.5	15.6	15.2	14.3	13.0	11.8	10.7	10.6	10.3	10.4	11.4	15.6	7.8
31	10.2	10.0	9.4	8.6	8.3	8.4	7.1	6.1	8.2	10.0	16.3	20.8	22.1	22.9	23.2	23.2	22.4	21.2	18.3	16.3	13.1	9.1	6.8	5.2	13.6	23.2	5.2
MEAN	2.6	2.4	2.1	1.8	1.5	1.3	1.1	1.1	1.9	3.0	4.6	5.7	6.5	7.1	7.6	7.6	7.2	6.5	5.7	5.0	4.4	3.8	3.2	2.9	4.0		
MAX	10.4	10.9	10.1	10.0	9.8	9.5	8.5	8.5	8.9	11.2	16.3	20.8	22.1	22.9	23.2	23.2	22.4	21.2	18.3	16.3	13.1	12.3	11.7	11.3		23.2	
MIN	-8.3	-8.8	-9.4	-11	-11	-11	-11	-10	-10	-9.6	-8.6	-7.2	-6.0	-4.9	-3.8	-4.5	-5.2	-5.9	-6.4	-6.8	-7.0	-7.4	-7.5	-7.9			-11

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 4.0 Deg C

MAXIMUM 40M TEMPERATURE WAS 23.2 Deg C ON 12/31 AT 1500

MAXIMUM DAILY MEAN WAS 13.6 Deg C ON 12/31

MINIMUM 40M TEMPERATURE WAS -11 Deg C ON 12/ 6 AT 500

MINIMUM DAILY MEAN WAS -6.8 Deg C ON 12/ 6

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix C.2**  
**Vertical Temperature Difference**



National Enrichment Facility

Delta T between 40M and 10M in Deg C for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN	
01	1.2	0.7	0.9	1.6	2.0	1.8	0.9	-0.3	-0.4	-0.6	-0.6	-0.8	-0.7	-0.7	-0.7	-0.6	-0.4	0.2	1.1	1.2	1.9	1.8	1.3	1.2	0.5	2.0	-0.8	
02	1.7	2.0	2.4	2.5	2.2	2.2	1.5	-0.3	-0.5	-0.6	-0.7	-0.8	-0.7	-0.7	-0.6	-0.5	-0.4	-0.1	0.7	0.8	1.3	1.5	0.8	0.9	0.6	2.5	-0.8	
03	0.9	0.7	0.8	0.9	1.0	1.1	1.0	-0.4	-0.6	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6	-0.5	-0.3	-0.1	0.8	0.9	1.2	1.3	1.5	1.4	0.3	1.5	-0.7	
04	1.6	1.1	1.0	0.8	0.9	1.0	0.1	-0.4	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.5	-0.5	-0.4	-0.1	0.0	0.1	-0.1	-0.2	-0.2	-0.2	-0.0	1.6	-0.7	
05	-0.2	-0.1	0.3	0.3	0.2	-0.1	-0.2	-0.4	-0.7	-0.7	-0.8	-0.8	-0.8	-0.8	-0.7	-0.6	-0.4	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.3	0.3	-0.8	
06	-0.0	0.1	0.2	0.2	0.1	0.0	-0.2	-0.4	-0.6	-0.7	-0.8	-0.8	-0.9	-0.8	-0.7	-0.5	-0.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.3	0.2	-0.9	
07	-0.1	-0.0	0.0	-0.0	-0.0	0.0	-0.2	-0.5	-0.6	-0.7	-0.8	-0.8	-0.7	-0.7	-0.7	-0.6	-0.4	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.3	0.0	-0.8	
08	-0.2	-0.0	0.7	0.2	0.1	0.7	-0.1	-0.6	-0.6	-0.7	-0.7	-0.8	-0.7	-0.7	-0.7	-0.4	-0.4	-0.4	-0.3	-0.1	-0.2	-0.3	-0.2	-0.3	-0.3	0.7	-0.8	
09	-0.2	-0.2	-0.3	-0.2	-0.2	-0.3	-0.3	-0.5	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.6	-0.4	-0.1	0.3	0.5	0.4	0.4	-0.1	-0.3	-0.3	0.5	-0.8	
10	-0.4	-0.3	-0.3	-0.3	-0.4	-0.3	-0.4	-0.4	-0.5	-0.5	-0.6	-0.8	-0.7	-0.7	-0.6	-0.5	-0.4	-0.2	-0.1	-0.1	0.0	0.2	-0.1	-0.2	-0.4	0.2	-0.8	
11	-0.2	-0.1	0.2	0.7	0.3	0.0	-0.0	-0.4	-0.6	-0.7	-0.8	-0.8	-0.8	-0.8	-0.8	-0.6	-0.3	1.1	1.7	1.6	0.7	0.4	0.5	0.5	0.0	1.7	-0.8	
12	0.5	1.1	2.0	3.0	4.7	4.4	2.0	-0.5	-0.7	-1.0	-1.1	-1.0	-0.9	-0.9	-0.7	-0.6	-0.3	0.9	1.9	2.7	2.6	1.8	1.3	1.0	0.9	4.7	-1.1	
13	1.5	0.7	0.9	1.1	1.4	1.8	1.9	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-0.8	-0.7	-0.6	-0.3	1.2	2.6	2.5	2.4	2.4	2.0	1.1	0.7	2.6	-0.9	
14	1.6	1.1	0.8	1.0	1.2	1.1	0.8	-0.3	-0.5	-0.6	-0.6	-0.7	-0.8	-0.8	-0.8	-0.6	-0.5	-0.1	1.6	2.1	1.7	1.2	1.1	1.5	3.3	0.6	3.3	-0.8
15	3.3	3.0	2.4	2.0	1.5	0.7	0.0	-0.6	-0.7	-0.7	-0.9	-0.8	-0.7	-0.7	-0.6	-0.5	-0.3	0.3	2.0	1.6	1.3	1.8	1.6	1.6	0.7	3.3	-0.9	
16	1.9	1.3	1.0	0.5	0.6	0.9	1.0	-0.2	-0.5	-0.6	-0.7	-0.8	-0.7	-0.7	-0.7	-0.5	-0.1	1.7	2.5	2.7	1.1	1.2	1.2	1.2	0.6	2.7	-0.8	
17	1.0	1.0	1.0	0.9	1.0	1.1	1.9	0.3	-0.3	-0.7	-0.9	-1.0	-1.0	-0.9	-0.8	-0.6	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	0.0	1.9	-1.0	
18	-0.2	-0.2	-0.1	-0.0	0.3	0.7	0.5	-0.6	-0.8	-0.9	-1.1	-1.2	-1.2	-1.0	-0.9	-0.7	-0.4	0.4	1.3	1.6	1.9	2.0	2.1	2.1	0.2	2.1	-1.2	
19	2.9	3.0	3.3	5.4	5.5	7.8	5.4	0.7	-0.5	-0.7	-0.7	-0.7	-0.7	-0.7	-0.6	-0.5	-0.3	0.8	1.2	1.1	1.1	1.0	0.9	1.6	1.5	7.8	-0.7	
20	0.7	1.0	1.2	0.8	0.9	1.7	1.0	-0.2	-0.6	-0.7	-0.8	-1.0	-0.9	-0.9	-0.8	-0.6	0.1	0.8	2.7	2.4	1.5	1.7	2.8	3.1	0.7	3.1	-1.0	
21	2.4	3.8	1.2	3.0	2.6	2.6	3.0	-0.2	-0.5	-0.5	-0.6	-0.7	-0.5	-0.7	-0.5	-0.5	-0.1	1.0	1.2	1.9	1.3	0.6	0.9	0.9	0.9	3.8	-0.7	
22	1.3	1.4	2.1	4.0	5.5	7.2	5.0	0.7	-0.5	-0.8	-0.8	-0.9	-1.0	-1.0	-0.8	-0.6	0.1	1.9	2.7	3.7	4.1	2.9	2.4	2.6	1.7	7.2	-1.0	
23	2.0	2.4	2.2	1.6	0.6	2.2	2.1	-0.3	-0.5	-0.5	-0.7	-0.5	-0.6	-0.5	-0.5	-0.5	-0.3	0.7	2.0	2.3	3.1	2.0	1.1	0.5	0.8	3.1	-0.7	
24	0.7	0.5	1.3	1.6	1.2	1.5	0.7	-0.2	-0.5	-0.6	-0.7	-0.7	-0.8	-0.7	-0.6	-0.5	-0.1	0.9	1.0	1.3	0.5	0.0	0.1	0.2	0.3	1.6	-0.8	
25	0.2	0.4	1.3	1.6	1.2	0.8	0.8	-0.2	-0.4	-0.6	-0.7	-0.9	-0.9	-0.8	-0.8	-0.5	0.1	1.8	2.3	2.1	1.6	0.5	0.1	0.1	0.4	2.3	-0.9	
26	0.1	0.6	0.7	0.5	0.5	0.8	1.5	0.2	-0.8	-0.9	-1.0	-1.0	-0.9	-0.9	-0.8	-0.6	-0.3	-0.1	-0.2	-0.2	-0.3	-0.4	-0.1	-0.3	-0.2	1.5	-1.0	
27	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.5	-0.6	-0.5	-0.5	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.3	-0.6	
28	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.6	-0.7	-0.8	-0.7	-0.6	-0.5	-0.5	-0.5	-0.3	0.2	1.1	1.5	1.4	0.4	0.6	2.1	-0.0	2.1	-0.8	
29	2.5	2.9	2.7	2.0	1.4	0.5	0.9	-0.0	-0.5	-0.6	-0.8	-0.8	-0.7	-0.7	-0.6	-0.5	-0.0	1.6	2.7	1.6	1.2	1.0	0.7	0.7	0.7	2.9	-0.8	
30	0.6	1.3	1.9	1.4	2.5	2.8	2.8	-0.1	-0.6	-0.9	-1.0	-1.0	-0.8	-0.8	-0.8	-0.6	-0.1	1.3	2.3	2.6	2.3	1.9	1.6	1.5	0.8	2.8	-1.0	
31	1.6	1.6	1.6	2.1	1.6	1.7	3.0	1.6	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.5	0.0	1.6	2.7	2.3	1.4	1.4	0.8	0.9	0.9	3.0	-0.7	
MEAN	0.9	1.0	1.0	1.2	1.3	1.5	1.2	-0.2	-0.6	-0.7	-0.8	-0.8	-0.8	-0.8	-0.7	-0.5	-0.2	0.6	1.2	1.3	1.1	0.9	0.8	0.9	0.4			
MAX	3.3	3.8	3.3	5.4	5.5	7.8	5.4	1.6	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	0.1	1.9	2.7	3.7	4.1	2.9	2.8	3.3	7.8			
MIN	-0.4	-0.3	-0.3	-0.3	-0.4	-0.3	-0.4	-0.6	-0.8	-1.0	-1.1	-1.2	-1.2	-1.0	-0.9	-0.7	-0.4	-0.4	-0.3	-0.3	-0.3	-0.4	-0.3	-0.3			-1.2	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 0.4 DEG

MONTHLY MAXIMUM = 7.8 Deg C ON 10/19 AT 600

MONTHLY MINIMUM = -1.2 Deg C ON 10/18 AT 1300

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

Delta T between 40M and 10M in Deg C for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN
01	0.9	0.6	0.9	0.8	0.9	0.6	0.8	-0.1	-0.5	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.4	0.0	0.5	0.3	0.2	0.1	0.1	0.1	0.3	0.1	0.9	-0.7
02	0.5	0.6	0.8	0.8	0.8	0.9	0.7	-0.0	-0.5	-0.8	-1.1	-1.1	-1.1	-1.0	-0.8	-0.5	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1	0.1	1.0	-0.1	1.0	-1.1
03	1.6	1.3	2.3	3.5	3.6	4.4	4.3	1.0	-0.5	-0.5	-0.6	-0.6	-0.7	-0.7	-0.6	-0.5	-0.3	0.2	1.0	1.6	1.4	1.1	1.3	1.3	1.0	4.4	-0.7
04	0.7	0.4	0.4	0.8	0.6	1.0	0.7	-0.3	-0.5	-0.6	-0.6	-0.7	-0.7	-0.6	-0.6	-0.4	-0.2	0.2	0.2	0.2	-0.1	-0.0	0.1	0.1	0.0	1.0	-0.7
05	-0.0	-0.0	0.1	0.5	0.5	0.8	1.5	0.4	-0.5	-0.6	-0.7	-0.8	-0.7	-0.8	-0.7	-0.5	-0.1	0.1	0.1	0.3	0.3	0.4	0.9	1.2	0.1	1.5	-0.8
06	1.5	2.0	2.2	2.2	1.2	1.5	1.1	-0.1	-0.5	-0.6	-0.8	-0.7	-0.7	-0.8	-0.7	-0.5	-0.0	2.1	2.6	2.5	3.5	3.0	1.9	1.6	1.0	3.5	-0.8
07	1.2	1.4	0.7	0.1	0.0	0.2	0.2	0.1	0.5	-0.6	-0.6	-0.7	-0.7	-0.8	-0.7	-0.5	0.1	1.7	2.3	2.3	1.6	0.6	0.1	0.1	0.4	2.3	-0.8
08	0.2	0.2	0.6	1.7	1.4	0.7	1.0	0.1	-0.6	-0.9	-0.9	-1.0	-1.0	-0.9	-0.8	-0.6	-0.1	0.5	0.3	0.1	0.1	0.1	0.1	0.3	0.0	1.7	-1.0
09	0.2	0.2	0.1	-0.0	-0.1	-0.0	0.1	-0.4	-0.6	-0.7	-0.7	-0.6	-0.7	-0.7	-0.7	-0.5	-0.1	0.9	1.0	2.4	1.9	1.5	2.6	3.3	0.3	3.3	-0.7
10	3.9	4.0	4.1	3.7	5.8	3.2	5.4	2.3	-0.4	-0.7	-0.6	-0.8	-0.8	-0.8	-0.7	-0.5	-0.0	2.2	2.9	2.6	2.8	2.2	3.1	2.2	1.9	5.8	-0.8
11	0.8	1.5	2.1	1.8	1.1	1.1	2.5	1.0	-0.1	-0.5	-0.6	-0.6	-0.6	-0.6	-0.6	-0.4	0.2	1.0	1.7	1.6	2.5	2.4	2.1	0.3	0.8	2.5	-0.6
12	0.7	0.8	0.8	0.7	0.7	1.0	1.2	1.7	-0.1	-0.6	-0.8	-0.9	-0.8	-0.8	-0.5	-0.3	0.3	0.7	1.3	1.0	0.5	0.5	1.4	1.9	0.4	1.9	-0.9
13	1.0	1.2	1.4	1.1	2.4	1.3	1.2	-0.1	-0.3	-0.8	-0.9	-0.8	-0.8	-0.7	-0.5	-0.4	0.1	0.7	0.8	1.1	1.4	0.5	0.6	0.5	0.4	2.4	-0.9
14	0.2	0.4	0.4	0.4	0.4	0.1	0.3	-0.3	-0.4	-0.5	-0.5	-0.7	-0.9	-0.8	-0.5	-0.4	-0.2	0.1	-0.0	0.4	1.5	1.6	1.3	1.4	0.1	1.6	-0.9
15	1.3	1.2	2.2	2.9	2.1	2.9	3.3	1.4	-0.5	-0.8	-0.8	-0.8	-0.9	-0.8	-0.7	-0.5	0.4	1.3	1.9	1.7	2.1	2.8	4.6	3.8	1.2	4.6	-0.9
16	4.5	2.8	2.1	2.7	3.7	2.5	5.1	1.9	-0.2	-0.5	-0.9	-1.0	-1.0	-0.9	-0.8	-0.5	-0.2	0.1	0.1	0.1	-0.0	-0.1	-0.1	0.0	0.8	5.1	-1.0
17	0.2	0.1	0.4	0.4	0.2	0.5	0.8	-0.3	-0.6	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.5	-0.1	1.5	1.3	1.0	1.2	0.7	0.5	1.3	0.2	1.5	-0.7
18	1.7	1.5	0.9	0.6	1.0	0.9	1.5	0.5	-0.3	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.4	0.2	1.0	1.0	2.6	1.3	0.9	1.1	1.1	0.5	2.6	-0.7
19	0.9	0.8	0.6	-0.1	1.3	2.2	1.8	2.8	-0.1	-0.5	-0.6	-0.6	-0.6	-0.6	-0.5	-0.2	0.2	0.4	0.4	0.5	0.9	1.6	1.8	2.3	0.6	2.8	-0.6
20	3.9	1.6	1.8	1.5	1.8	2.4	2.3	1.1	-0.4	-0.8	-0.9	-0.8	-0.8	-0.7	-0.6	-0.5	-0.0	0.6	0.5	0.3	0.1	0.0	0.2	-0.2	0.5	3.9	-0.9
21	0.3	0.4	0.5	0.1	-0.2	-0.0	-0.1	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.9	-0.1	0.8	0.9	1.0	2.1	0.6	1.2	1.8	0.3	2.1	-0.9
22	1.8	1.5	1.5	1.2	1.1	0.9	1.1	-0.0	-0.6	-0.8	-0.9	-0.9	-0.9	-0.8	-0.6	-0.5	-0.0	0.6	0.8	1.3	1.3	1.3	1.6	0.6	0.4	1.8	-0.9
23	1.2	1.6	3.1	3.3	2.8	2.2	1.9	4.0	0.0	-0.5	-0.6	-0.7	-0.7	-0.7	-0.6	-0.4	0.4	2.0	2.6	3.4	2.8	1.5	1.7	1.9	1.3	4.0	-0.7
24	1.2	1.3	2.1	2.9	1.8	1.2	1.3	0.5	-0.4	-0.5	-0.7	-0.7	-0.7	-0.6	-0.5	-0.3	0.4	1.5	1.4	0.6	0.7	0.4	0.3	0.3	0.6	2.9	-0.7
25	0.4	0.6	1.0	1.1	0.4	0.3	1.3	0.7	-0.2	-0.3	-0.2	-0.4	-1.1	-0.5	-0.5	-0.4	0.0	0.8	0.8	0.6	0.4	0.5	0.5	0.5	0.3	1.3	-1.1
26	1.0	1.1	1.0	1.3	1.5	0.1	-0.1	-0.3	-0.5	-0.7	-0.7	-0.6	-0.7	-0.7	-0.6	-0.4	-0.2	0.0	0.2	0.4	1.5	2.9	3.2	5.1	0.6	5.1	-0.7
27	5.2	4.9	3.8	4.8	4.8	3.4	3.4	2.5	-0.4	-0.7	-0.8	-0.8	-0.8	-0.7	-0.6	-0.4	0.1	1.8	2.7	3.6	3.2	4.3	5.7	4.3	2.2	5.7	-0.8
28	3.5	3.1	3.1	3.8	4.1	3.1	3.3	1.7	-0.5	-0.7	-0.8	-0.8	-0.8	-0.7	-0.6	-0.4	0.7	1.5	1.1	3.5	5.6	5.3	7.3	5.1	2.1	7.3	-0.8
29	2.5	5.7	5.4	2.0	0.2	0.1	0.0	-0.3	-0.5	-0.8	-0.8	-0.8	-0.7	-0.7	-0.6	-0.4	-0.2	0.9	2.2	2.1	2.2	1.9	1.4	1.8	0.9	5.7	-0.8
30	1.4	1.9	1.5	1.3	1.7	1.6	1.0	0.4	-0.3	-0.6	-0.7	-0.7	-0.7	-0.7	-0.6	-0.4	0.3	1.0	0.6	0.9	0.6	0.6	0.6	0.6	0.5	1.9	-0.7
MEAN	1.5	1.5	1.6	1.6	1.6	1.4	1.6	0.7	-0.3	-0.6	-0.7	-0.7	-0.8	-0.7	-0.6	-0.5	0.0	0.9	1.1	1.3	1.4	1.3	1.6	1.5	0.7		
MAX	5.2	5.7	5.4	4.8	5.8	4.4	5.4	4.0	0.5	-0.3	-0.2	-0.3	-0.3	-0.3	-0.4	-0.2	0.7	2.2	2.9	3.6	5.6	5.3	7.3	5.1		7.3	
MIN	-0.0	-0.0	0.1	-0.1	-0.2	-0.0	-0.1	-0.4	-0.6	-0.9	-1.1	-1.1	-1.1	-1.0	-0.8	-0.9	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2			-1.1

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 0.7 DEG

MONTHLY MAXIMUM = 7.3 Deg C ON 11/28 AT 2300

MONTHLY MINIMUM = -1.1 Deg C ON 11/ 2 AT 1200

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

Delta T between 40M and 10M in Deg C for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN	MAX	MIN	
01	0.7	0.9	1.4	1.3	0.9	0.7	1.4	0.7	-0.2	-0.7	-0.8	-1.0	-1.0	-0.9	-0.7	-0.5	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.0	1.4	-1.0	
02	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.4
03	-0.3	-0.2	-0.2	-0.3	-0.3	-0.1	0.3	0.0	-0.5	-0.0	-0.7	-0.7	-0.8	-0.8	-0.7	-0.5	0.4	1.8	0.7	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	1.8	-0.8	
04	-0.1	-0.1	-0.1	-0.2	-0.1	-0.2	-0.2	-0.4	-0.4	-0.5	-0.5	-0.5	-0.4	-0.5	-0.5	-0.4	-0.2	-0.0	-0.2	-0.3	-0.2	-0.0	-0.1	-0.1	-0.3	-0.0	-0.5	
05	-0.2	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.3	-0.3	-0.4	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.4	
06	-0.3	-0.2	-0.2	-0.1	0.1	-0.3	0.1	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	0.1	0.8	0.8	1.0	1.7	1.8	1.5	1.1	0.2	1.8	-0.4	
07	3.1	4.4	4.6	3.9	3.3	2.3	2.6	2.9	2.6	0.1	-0.3	-0.4	-0.4	-0.5	-0.5	-0.3	0.3	1.3	1.3	1.6	1.7	2.7	2.7	1.9	1.7	4.6	-0.5	
08	1.5	1.5	1.1	0.9	0.6	0.8	0.7	1.2	-0.3	-0.5	-0.6	-0.6	-0.5	-0.6	-0.4	-0.4	-0.0	0.4	1.1	2.8	3.5	1.6	0.4	0.4	0.6	3.5	-0.6	
09	0.2	0.2	0.1	0.2	0.2	0.2	0.2	-0.1	-0.6	-0.7	-0.7	-0.7	-0.7	-0.7	-0.6	-0.5	-0.0	0.8	0.1	0.6	1.1	1.0	1.1	0.8	0.1	1.1	-0.7	
10	1.2	0.7	0.6	-0.1	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.1	1.2	-0.3	
11	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3
12	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3
13	-0.2	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.6	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.2	-0.2	-0.1	-0.6	
14	-0.2	-0.2	-0.2	-0.2	0.1	0.6	0.3	1.0	0.3	-0.3	-0.5	-0.6	-0.7	-0.7	-0.7	-0.4	0.3	2.1	2.0	1.7	1.8	2.0	0.9	1.2	0.4	2.1	-0.7	
15	1.9	2.6	2.0	2.6	2.4	0.4	0.9	0.2	-0.4	-0.6	-0.5	-0.7	-0.8	-0.6	-0.5	-0.4	-0.2	-0.1	-0.1	0.1	0.1	0.3	0.6	0.8	0.4	2.6	-0.8	
16	0.9	1.3	1.0	1.2	0.8	0.9	0.7	0.3	-0.4	-0.7	-0.8	-0.6	-0.5	-0.6	-0.6	-0.4	-0.3	0.0	0.5	0.9	0.8	0.9	1.2	0.7	0.3	1.3	-0.8	
17	0.4	0.7	1.9	2.6	2.3	3.2	2.4	0.6	-0.3	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.3	-0.3	-0.1	0.0	0.5	0.4	0.1	0.0	-0.2	0.5	3.2	-0.5	
18	-0.2	-0.2	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4	-0.4	-0.6	-0.5	-0.6	-0.5	-0.4	-0.5	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.2	-0.1	-0.3	-0.1	-0.6	
19	-0.1	-0.1	-0.2	-0.1	-0.2	-0.2	0.1	-0.2	-0.3	-0.5	-0.7	-0.8	-0.8	-0.7	-0.7	-0.5	-0.3	-0.3	-0.3	-0.2	-0.1	-0.1	-0.0	-0.0	-0.3	0.1	-0.8	
20	0.3	0.3	0.0	-0.0	0.1	0.1	-0.0	-0.2	-0.6	-0.7	-0.8	-0.8	-0.9	-0.8	-0.7	-0.5	-0.2	0.4	1.2	0.7	1.1	1.7	1.3	1.8	0.1	1.8	-0.9	
21	1.3	1.4	1.6	1.5	1.3	1.5	1.9	1.7	0.1	-0.5	-0.5	-0.6	-0.6	-0.6	-0.6	-0.4	0.3	1.2	1.3	1.0	1.2	1.3	2.2	1.9	0.8	2.2	-0.6	
22	1.8	1.3	1.3	1.4	1.3	0.8	0.2	-0.2	-0.5	-0.8	-0.9	-1.0	-0.9	-0.8	-0.7	-0.5	-0.4	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.0	1.8	-1.0	
23	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.5	-0.6	-0.6	-0.6	-0.5	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.4	-0.3	-0.6	
24	-0.3	-0.2	-0.3	-0.3	-0.3	-0.2	-0.2	-0.3	-0.3	-0.3	-0.3	-0.4	-0.4	-0.3	-0.3	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	0.1	-0.1	-0.2	0.1	-0.4	
25	-0.2	0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	-0.3	-0.0	0.3	-0.2	-0.4	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	0.1	0.1	-0.1	0.3	-0.4	
26	0.2	-0.1	-0.2	-0.1	0.3	0.6	1.1	1.0	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	0.1	0.4	1.1	2.0	2.4	2.6	3.0	2.0	0.6	3.0	-0.4	
27	1.9	0.8	0.4	0.7	1.4	1.9	2.0	2.2	0.4	-0.3	-0.4	-0.4	-0.4	-0.5	-0.4	-0.3	0.1	1.8	1.8	1.5	2.4	2.9	3.0	3.6	1.1	3.6	-0.5	
28	3.6	2.2	2.0	2.8	2.5	1.3	0.9	0.4	-0.3	-0.5	-0.7	-0.8	-0.8	-0.7	-0.6	-0.4	0.1	1.3	1.6	2.6	2.6	3.5	2.9	2.4	1.2	3.6	-0.8	
29	2.5	4.6	5.1	3.4	2.1	1.6	3.1	3.0	0.3	-0.4	-0.6	-0.6	-0.7	-0.7	-0.6	-0.4	0.6	1.4	1.7	2.1	2.2	2.3	2.5	3.6	1.6	5.1	-0.7	
30	3.8	2.0	2.6	2.5	1.9	1.9	2.5	1.3	-0.3	-0.4	-0.5	-0.6	-0.6	-0.6	-0.5	-0.4	0.4	2.2	2.9	2.8	2.8	3.1	3.4	2.9	1.5	3.8	-0.6	
31	1.9	1.3	0.8	1.5	2.3	3.3	2.0	1.7	1.1	-0.3	-0.5	-0.8	-0.9	-0.8	-0.7	-0.4	0.7	1.9	3.3	1.8	0.6	-0.0	-0.0	0.1	0.8	3.3	-0.9	

MEAN	0.8	0.8	0.8	0.7	0.7	0.6	0.7	0.5	-0.1	-0.4	-0.5	-0.5	-0.6	-0.5	-0.5	-0.4	-0.0	0.5	0.6	0.6	0.7	0.8	0.8	0.7	0.3		
MAX	3.8	4.6	5.1	3.9	3.3	3.3	3.1	3.0	2.6	0.1	-0.0	0.3	-0.2	-0.2	-0.2	0.7	2.2	3.3	2.8	3.5	3.5	3.4	3.6		5.1		
MIN	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3	-0.4	-0.6	-0.8	-0.9	-1.0	-1.0	-0.9	-0.7	-0.5	-0.4	-0.4	-0.3	-0.4	-0.4	-0.4	-0.4			-1.0	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 0.3 DEG

MONTHLY MAXIMUM = 5.1 Deg C ON 12/29 AT 300

MONTHLY MINIMUM = -1.0 Deg C ON 12/ 1 AT 1300

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix C.3**  
**Atmospheric Stability**

National Enrichment Facility

Stability based on Delta T between 40M and 10M in Deg C/100M for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	F	F	F	G	G	G	F	D	D	A	A	A	A	A	A	A	D	E	F	F	G	G	G	F
02	G	G	G	G	G	G	G	D	B	A	A	A	A	A	A	C	D	E	F	F	G	G	F	F
03	F	F	F	F	F	F	F	D	A	A	A	A	A	A	A	C	D	E	F	F	G	G	G	G
04	G	F	F	F	F	F	E	D	C	B	A	A	A	A	B	C	D	E	E	E	E	D	D	D
05	D	E	E	E	E	E	D	D	A	A	A	A	A	A	A	A	D	E	E	E	E	E	E	E
06	E	E	E	E	E	E	D	D	B	A	A	A	A	A	A	B	D	E	E	E	E	E	E	E
07	E	E	E	E	E	E	D	C	A	A	A	A	A	A	A	A	D	D	D	D	E	E	E	E
08	D	E	F	E	E	F	E	A	A	A	A	A	A	A	A	D	D	D	D	E	D	D	D	D
09	D	D	D	D	D	D	D	B	B	A	A	C	A	A	A	B	D	E	E	F	E	E	E	D
10	D	D	D	D	D	D	D	D	C	C	A	A	A	A	A	B	D	D	E	E	E	E	E	D
11	D	E	E	F	E	E	E	D	A	A	A	A	A	A	A	A	D	F	G	G	F	E	F	F
12	F	F	G	G	G	G	G	C	A	A	A	A	A	A	A	A	D	F	G	G	G	G	G	F
13	G	F	F	F	G	G	G	D	B	A	A	A	A	A	A	A	D	G	G	G	G	G	G	F
14	G	F	F	F	F	F	F	D	B	A	A	A	A	A	A	C	E	G	G	G	F	F	G	G
15	G	G	G	G	G	F	E	A	A	A	A	A	A	A	A	B	D	E	G	G	G	G	G	G
16	G	G	F	F	F	F	F	D	B	A	A	A	A	A	A	C	E	G	G	G	F	G	F	G
17	F	F	F	F	F	F	G	E	D	A	A	A	A	A	A	A	D	D	D	D	D	E	E	E
18	D	D	E	E	E	F	F	A	A	A	A	A	A	A	A	A	D	E	G	G	G	G	G	G
19	G	G	G	G	G	G	G	F	B	A	A	A	A	A	A	B	D	F	F	F	F	F	F	G
20	F	F	F	F	F	G	F	D	B	A	A	A	A	A	A	A	E	F	G	G	G	G	G	G
21	G	G	F	G	G	G	G	D	C	B	A	A	B	A	B	C	E	F	G	G	G	F	F	F
22	G	G	G	G	G	G	G	F	B	A	A	A	A	A	A	A	E	G	G	G	G	G	G	G
23	G	G	G	G	F	G	G	D	C	C	A	B	A	B	B	C	D	F	G	G	G	G	F	F
24	F	F	G	G	G	G	F	D	C	A	A	A	A	A	A	C	E	F	F	G	G	E	E	E
25	E	E	G	G	G	F	F	D	D	A	A	A	A	A	A	C	E	G	G	G	F	F	E	E
26	E	F	F	F	F	F	G	E	A	A	A	A	A	A	A	D	E	D	D	D	D	D	E	D
27	D	D	D	D	D	D	D	D	D	D	D	D	C	B	C	C	D	D	D	D	D	D	D	D
28	D	D	D	D	D	D	D	D	A	A	A	A	A	B	B	C	D	E	F	G	G	E	F	G
29	G	G	G	G	G	F	F	E	C	A	A	A	A	A	A	C	E	G	G	G	F	F	F	F
30	F	G	G	G	G	G	G	E	A	A	A	A	A	A	A	B	E	G	G	G	G	G	G	G
31	G	G	G	G	G	G	G	G	C	A	A	A	A	A	A	C	E	G	G	G	G	G	F	F

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	192	25.8%
B	27	3.6%
C	27	3.6%
D	114	15.3%
E	99	13.3%
F	114	15.3%
G	171	23.0%

MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

Stability based on Delta T between 40M and 10M in Deg C/100M for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	F	F	F	F	F	F	F	E	C	B	A	A	A	A	A	D	E	F	E	E	E	E	E	E
02	F	F	F	F	F	F	F	E	C	A	A	A	A	A	A	B	D	D	D	E	E	E	E	F
03	G	G	G	G	G	G	G	F	B	B	A	A	A	A	A	C	D	E	F	G	G	F	G	G
04	F	E	E	F	F	F	F	D	C	B	A	A	A	A	A	D	D	E	E	E	E	E	E	E
05	E	E	E	F	F	F	G	E	B	A	A	A	A	A	A	C	E	E	E	E	E	E	F	G
06	G	G	G	G	G	G	F	E	C	A	A	A	A	A	A	C	E	G	G	G	G	G	F	G
07	F	G	F	E	E	E	E	E	F	A	A	A	A	A	A	C	E	G	G	G	G	F	E	E
08	E	E	F	G	G	F	F	E	A	A	A	A	A	A	A	A	E	F	E	E	E	E	E	E
09	E	E	E	E	E	E	E	D	B	A	A	A	A	A	A	C	E	F	F	G	G	G	G	G
10	G	G	G	G	G	G	G	G	D	A	A	A	A	A	A	C	E	G	G	G	G	G	G	G
11	F	G	G	G	F	F	G	F	E	C	A	A	A	A	A	D	E	F	G	G	G	G	G	E
12	F	F	F	F	F	F	F	G	E	A	A	A	A	A	B	D	E	F	G	F	F	F	G	G
13	F	F	F	F	F	F	F	E	D	A	A	A	A	A	B	D	E	F	F	F	G	F	F	F
14	E	E	E	E	E	E	E	D	D	B	B	A	A	A	C	D	D	E	E	E	G	G	G	G
15	G	F	G	G	G	G	G	G	C	A	A	A	A	A	A	B	E	G	G	G	G	G	G	G
16	G	G	G	G	G	G	G	G	D	B	A	A	A	A	A	B	D	E	E	E	E	E	E	E
17	E	E	E	E	E	F	G	F	D	A	A	A	A	A	A	C	E	G	G	F	G	F	F	G
18	G	G	F	F	F	F	G	F	D	A	A	A	A	A	A	D	E	F	F	G	G	F	F	F
19	F	F	F	E	G	G	G	G	E	B	A	A	A	A	C	D	E	E	E	F	F	G	G	G
20	G	G	G	G	G	G	G	F	D	A	A	A	A	A	A	B	E	F	F	E	E	E	E	D
21	E	E	F	E	D	E	E	D	D	D	D	D	D	D	D	A	E	F	F	F	G	F	G	G
22	G	G	G	F	F	F	F	E	B	A	A	A	A	A	A	B	E	F	F	G	G	G	G	F
23	F	G	G	G	G	G	G	G	E	C	A	A	A	A	A	D	E	G	G	G	G	G	G	G
24	F	G	G	G	G	G	G	F	D	B	A	A	A	A	C	D	E	G	G	F	F	E	E	E
25	E	F	F	F	E	E	G	F	D	D	D	D	A	C	B	D	E	F	F	F	E	F	F	F
26	F	F	F	G	G	E	E	D	B	A	A	A	A	A	A	D	D	E	E	E	G	G	G	G
27	G	G	G	G	G	G	G	G	D	A	A	A	A	A	A	D	E	G	G	G	G	G	G	G
28	G	G	G	G	G	G	G	G	C	A	A	A	A	A	A	D	F	G	F	G	G	G	G	G
29	G	G	G	G	E	E	E	D	B	A	A	A	A	A	B	D	D	F	G	G	G	G	G	G
30	G	G	G	G	G	G	F	E	D	A	A	A	A	A	A	D	E	F	F	F	F	F	F	F

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	157	21.8%
B	23	3.2%
C	19	2.6%
D	54	7.5%
E	134	18.6%
F	130	18.1%
G	203	28.2%

MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

Stability based on Delta T between 40M and 10M in Deg C/100M for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	F	F	G	G	F	F	G	F	D	A	A	A	A	A	A	C	D	D	D	D	D	D	D	D
02	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
03	D	D	D	D	D	E	E	E	C	E	A	A	A	A	A	C	E	G	F	E	D	D	D	E
04	E	E	E	D	E	D	D	D	D	C	C	C	D	C	C	D	D	E	D	D	D	E	E	E
05	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
06	D	D	D	E	E	D	E	D	D	D	D	D	D	D	D	D	E	F	F	F	G	G	G	F
07	G	G	G	G	G	G	G	G	G	E	D	D	D	C	C	D	E	G	G	G	G	G	G	G
08	G	G	F	F	F	F	F	F	D	C	B	A	B	B	D	D	E	E	F	G	G	G	E	E
09	E	E	E	E	E	E	E	E	B	A	A	A	A	A	A	C	E	F	E	F	F	F	F	F
10	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
11	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
12	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
13	D	D	E	E	E	E	E	E	D	D	D	D	D	A	D	D	D	D	D	D	D	D	D	D
14	D	D	D	D	E	F	E	F	E	D	B	A	A	A	A	D	E	G	G	G	G	G	F	F
15	G	G	G	G	G	E	F	E	D	B	B	A	A	A	C	D	D	E	E	E	E	E	F	F
16	F	G	F	G	F	F	F	E	D	A	A	A	B	A	A	D	D	E	F	F	F	F	F	F
17	E	F	G	G	G	G	G	F	D	D	D	C	D	D	D	D	D	E	E	F	E	E	E	D
18	D	D	D	D	D	D	D	D	D	D	B	B	B	C	D	C	D	D	D	D	D	D	D	E
19	E	E	D	E	D	D	E	D	D	B	A	A	A	A	A	C	D	D	D	D	E	E	E	E
20	E	E	E	E	E	E	E	D	A	A	A	A	A	A	A	B	D	E	F	F	F	G	G	G
21	G	G	G	G	G	G	G	G	E	C	B	A	A	B	A	D	E	F	G	F	G	G	G	G
22	G	G	G	G	G	F	E	D	B	A	A	A	A	A	A	C	D	D	D	D	D	D	D	D
23	D	D	D	D	D	D	D	D	D	C	B	A	A	C	D	D	D	D	D	D	D	D	D	D
24	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	D	E	E	E	E	E	E	E	D	D	E	E	D	D	D	D	D	D	D	D	D	E	E	E
26	E	E	D	E	E	F	F	F	D	D	D	D	D	D	D	D	E	E	F	G	G	G	G	G
27	G	F	E	F	G	G	G	G	E	D	D	D	C	D	D	D	E	G	G	G	G	G	G	G
28	G	G	G	G	G	G	F	E	D	B	A	A	A	A	A	D	E	G	G	G	G	G	G	G
29	G	G	G	G	G	G	G	G	E	D	A	A	A	A	A	D	F	G	G	G	G	G	G	G
30	G	G	G	G	G	G	G	G	D	D	B	B	A	A	B	D	E	G	G	G	G	G	G	G
31	G	G	F	G	G	G	G	G	F	D	B	A	A	A	A	D	F	G	G	G	F	E	E	E

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

STABILITY CATEGORY	NUMBER OF OCCURRENCES	PERCENT
A	70	9.4%
B	22	3.0%
C	22	3.0%
D	317	42.6%
E	112	15.1%
F	65	8.7%
G	136	18.3%

MISSING DATA DENOTED BY BLANKS

**Appendix D**  
**Hourly Relative Humidity Data for October through December 2011**



National Enrichment Facility

RELATIVE HUMIDITY in percent for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	28	28	27	27	29	29	26	22	20	20	18	21	21	21	21	21	22	24	26	30	33	34	37	40	26	40	18
02	41	42	43	42	43	46	44	40	36	31	28	25	22	19	18	18	19	22	26	30	34	43	49	54	34	54	18
03	57	60	62	62	64	64	58	45	39	33	25	22	21	22	22	20	22	25	29	31	36	41	45	47	40	64	20
04	48	47	47	48	51	53	51	48	46	42	37	33	30	27	26	27	28	31	33	35	36	44	51	56	41	56	26
05	64	68	69	71	68	68	69	71	65	59	55	49	42	37	35	32	36	43	49	53	56	58	60	62	56	71	32
06	64	66	68	70	72	76	81	77	67	55	50	47	41	35	32	30	32	39	46	51	54	57	58	58	55	81	30
07	59	62	66	68	72	76	81	80	70	61	51	38	29	25	24	28	33	40	49	52	53	52	54	56	53	81	24
08	51	35	42	54	58	54	49	36	32	28	24	22	22	20	19	19	20	37	47	40	58	77	82	85	42	85	19
09	87	86	87	86	86	88	89	82	71	59	54	52	50	51	50	44	39	40	53	59	67	74	85	89	68	89	39
10	87	88	87	87	85	84	84	81	77	74	66	59	52	45	37	34	35	42	49	58	65	71	79	88	67	88	34
11	91	92	94	95	96	94	91	87	76	66	53	43	35	26	17	19	16	13	16	20	57	69	78	84	60	96	13
12	88	89	76	48	46	44	38	28	21	19	16	14	14	13	12	12	12	14	19	25	30	41	49	59	34	89	12
13	65	69	73	78	83	84	86	74	56	46	41	37	31	27	22	20	19	21	24	26	29	33	39	41	47	86	19
14	47	50	52	56	60	63	62	58	44	29	18	12	10	9	9	9	9	11	13	14	22	28	33	37	31	63	9
15	41	45	48	54	62	68	66	58	51	43	35	30	26	23	20	19	19	24	29	32	33	39	47	49	40	68	19
16	52	55	57	61	64	66	66	61	52	41	30	22	16	14	11	10	10	12	14	17	28	34	37	44	36	66	10
17	53	55	63	70	73	76	72	55	31	12	11	11	10	10	9	9	10	18	31	35	41	45	50	55	38	76	9
18	55	59	63	67	71	75	74	64	58	48	34	28	25	23	22	22	23	25	28	30	32	31	31	34	43	75	22
19	34	36	38	45	45	56	50	34	25	21	19	18	18	17	17	17	18	20	22	23	24	27	29	31	29	56	17
20	31	32	33	33	34	37	37	34	26	20	14	12	11	9	10	9	10	12	12	12	16	19	24	26	21	37	9
21	28	30	32	38	42	43	46	33	25	20	15	13	11	10	10	11	11	14	20	23	28	37	46	50	27	50	10
22	46	47	54	64	70	68	51	32	20	12	10	10	10	9	8	8	9	11	13	14	16	22	29	34	28	70	8
23	40	45	52	59	64	72	73	64	57	51	44	36	29	22	20	21	21	23	26	27	29	30	36	41	41	73	20
24	49	54	61	65	67	73	76	70	55	41	31	24	23	22	19	16	16	20	23	28	31	35	43	49	41	76	16
25	54	59	66	69	71	72	72	64	54	39	28	24	21	19	16	16	19	23	27	31	30	34	39	45	41	72	16
26	50	54	58	61	62	63	62	53	44	42	38	34	31	29	28	28	30	35	42	48	50	67	78	82	49	82	28
27	84	85	84	85	88	92	91	90	91	90	87	86	83	80	78	76	75	75	76	76	76	76	76	76	82	92	75
28	77	76	74	74	74	75	73	67	62	56	53	51	49	45	43	43	45	52	55	52	50	45	52	80	59	80	43
29	84	84	84	79	71	67	73	80	72	55	43	33	30	28	28	26	27	32	37	39	38	41	44	46	52	84	26
30	51	57	57	58	70	73	67	55	42	37	34	33	30	29	28	28	30	35	40	47	51	54	57	59	47	73	28
31	61	66	68	71	72	72	77	69	54	45	37	31	25	20	18	18	19	22	26	31	42	52	61	68	47	77	18
MEAN	57	59	61	63	65	67	66	58	50	42	35	31	28	25	24	23	24	28	32	35	40	45	51	56	44		
MAX	91	92	94	95	96	94	91	90	91	90	87	86	83	80	78	76	75	75	76	76	76	77	85	89		96	
MIN	28	28	27	27	29	29	26	22	20	12	10	10	10	9	8	8	9	11	12	12	16	19	24	26			8

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 44 percent

MAXIMUM RELATIVE HUMIDITY WAS 96 percent ON 10/11 AT 500      MAXIMUM DAILY MEAN WAS 82 percent ON 10/27

MINIMUM RELATIVE HUMIDITY WAS 8 percent ON 10/22 AT 1500      MINIMUM DAILY MEAN WAS 21 percent ON 10/20

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

RELATIVE HUMIDITY in percent for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN
01	74	77	80	82	85	88	88	82	70	51	37	27	21	19	18	17	20	28	33	40	49	54	58	62	53	88	17
02	66	70	74	77	81	83	84	79	59	39	44	39	35	34	33	33	37	41	43	48	53	57	61	67	56	84	33
03	72	74	79	82	82	85	85	75	53	37	31	26	23	21	21	22	24	25	26	28	30	31	35	45	85	21	
04	33	32	33	35	36	40	40	32	27	23	21	19	18	17	18	18	19	22	25	27	27	29	31	32	27	40	17
05	31	31	32	34	35	36	39	36	30	25	21	17	14	12	15	22	26	29	31	33	34	35	37	41	29	41	12
06	51	56	57	59	57	58	56	48	39	32	31	30	27	25	23	22	24	29	31	32	33	36	46	55	40	59	22
07	57	65	76	88	90	90	95	95	76	52	32	25	21	17	16	14	14	18	19	24	28	29	28	27	46	95	14
08	30	31	34	40	48	43	39	37	28	24	22	20	20	20	19	21	23	30	37	45	53	59	64	69	36	69	19
09	71	73	74	75	76	78	80	74	60	49	39	34	29	25	25	23	24	29	32	36	39	44	49	51	50	80	23
10	52	54	54	57	64	54	61	51	38	30	27	23	21	21	19	18	19	24	27	28	30	31	34	34	36	64	18
11	36	41	44	46	46	47	46	42	33	26	21	19	16	15	14	14	15	19	22	23	25	27	28	26	29	47	14
12	28	29	31	31	30	28	27	27	23	17	14	12	13	13	14	14	15	18	19	19	18	19	22	24	21	31	12
13	25	28	31	34	39	43	45	43	37	34	31	28	28	28	29	30	31	34	35	38	43	43	44	45	35	45	25
14	49	52	54	60	60	55	56	54	51	46	44	37	33	32	31	32	34	38	45	50	54	59	58	60	48	60	31
15	62	62	68	75	74	78	80	71	43	26	18	13	12	12	12	19	19	23	24	25	28	33	37	38	40	80	12
16	38	38	38	44	55	60	68	57	40	33	27	21	19	18	20	22	26	33	37	41	43	43	44	44	38	68	18
17	44	45	48	52	57	62	65	57	46	35	33	30	29	30	29	28	30	34	35	37	39	43	52	64	43	65	28
18	72	79	84	88	91	95	96	97	84	68	52	42	34	25	15	14	14	16	18	20	19	50	69	79	55	97	14
19	82	88	94	96	96	97	96	85	54	36	24	17	17	17	14	14	15	17	18	19	21	24	25	26	46	97	14
20	27	28	30	30	29	27	26	28	42	41	35	33	30	28	29	32	37	51	60	63	64	69	75	90	42	90	26
21	95	96	96	96	96	96	96	96	96	96	96	96	96	96	89	76	72	70	73	62	60	54	60	62	84	96	54
22	65	64	64	62	60	64	66	58	47	36	29	25	22	21	20	19	20	22	23	37	68	81	85	88	48	88	19
23	92	94	96	94	88	88	89	81	68	52	35	25	22	20	19	19	19	22	23	25	26	30	35	41	50	96	19
24	47	50	58	67	71	72	74	72	63	50	43	36	28	24	24	24	26	30	38	44	52	59	63	66	49	74	24
25	68	69	72	72	72	71	75	74	74	75	81	84	77	71	65	66	69	70	62	62	61	65	68	64	70	84	61
26	67	65	69	72	74	72	68	50	41	43	31	25	19	16	14	17	19	23	26	29	33	39	44	47	42	74	14
27	48	49	51	55	55	55	52	45	29	19	17	15	13	11	11	11	12	14	17	18	18	19	22	26	28	55	11
28	30	32	35	38	41	43	43	37	24	16	14	12	11	10	10	10	11	13	14	17	20	20	27	31	23	43	10
29	29	27	26	29	37	44	48	47	43	39	35	32	29	27	26	26	27	32	38	41	47	48	51	53	37	53	26
30	57	59	59	59	61	63	60	55	48	37	30	27	24	22	20	19	20	24	27	32	37	40	48	54	41	63	19
MEAN	53	55	58	61	63	64	65	59	49	40	34	30	27	25	24	24	25	29	32	35	38	42	46	50	43		
MAX	95	96	96	96	96	97	96	97	96	96	96	96	96	96	89	76	72	70	73	63	68	81	85	90		97	
MIN	25	27	26	29	29	27	26	27	23	16	14	12	11	10	10	10	11	13	14	17	18	19	22	24			10

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 43 percent

MAXIMUM RELATIVE HUMIDITY WAS 97 percent ON 11/18 AT 800      MAXIMUM DAILY MEAN WAS 84 percent ON 11/21

MINIMUM RELATIVE HUMIDITY WAS 10 percent ON 11/28 AT 1500      MINIMUM DAILY MEAN WAS 21 percent ON 11/12

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

RELATIVE HUMIDITY in percent for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN	
01	57	60	62	62	62	60	61	61	54	49	41	32	31	32	35	39	44	47	52	58	63	68	72	76	53	76	31	
02	78	80	90	94	94	94	95	95	95	95	94	95	95	95	95	96	96	97	98	98	98	98	98	98	98	94	98	78
03	98	98	98	98	95	95	96	95	89	78	61	46	33	28	32	32	38	45	50	66	76	77	78	80	70	98	28	
04	82	82	85	86	87	86	84	81	78	75	70	65	65	61	60	62	63	68	70	73	81	95	97	97	77	97	60	
05	98	98	97	97	97	97	97	96	95	92	90	88	90	90	89	87	87	86	86	86	85	86	86	86	91	98	85	
06	86	86	86	86	87	85	87	84	80	76	75	74	73	76	73	71	76	82	85	86	87	85	82	82	81	87	71	
07	85	86	86	80	81	81	78	70	65	60	54	47	42	37	44	40	39	46	47	51	54	60	67	66	61	86	37	
08	67	72	73	74	76	77	78	80	74	70	60	47	36	31	29	29	34	40	40	44	50	61	74	77	58	80	29	
09	81	85	85	85	85	86	86	83	76	71	64	58	54	51	49	50	55	64	76	81	82	85	88	90	74	90	49	
10	92	94	95	96	97	97	97	97	97	97	97	97	97	97	97	97	98	98	98	98	98	98	98	98	97	98	92	
11	98	98	98	98	98	98	98	98	98	98	98	97	97	97	97	97	97	97	97	97	98	98	98	98	98	98	98	97
12	98	98	98	98	98	98	98	98	97	97	97	97	97	97	97	96	96	96	96	96	97	97	97	97	97	98	96	
13	97	97	97	97	97	97	97	97	97	97	97	97	97	91	86	86	88	89	90	92	92	92	94	95	94	97	86	
14	95	95	92	91	92	94	95	95	90	80	60	29	22	24	19	18	19	26	28	37	39	54	59	64	59	95	18	
15	63	67	68	68	72	71	76	73	64	60	57	54	47	45	46	46	49	51	54	59	65	70	75	78	62	78	45	
16	82	86	89	91	91	93	90	83	76	66	60	55	50	45	44	45	47	50	54	57	56	57	61	61	66	93	44	
17	58	55	61	69	67	80	80	69	59	46	38	34	34	35	39	39	39	41	43	44	45	45	46	55	51	80	34	
18	59	59	69	77	71	72	73	77	81	80	75	75	71	65	65	73	78	83	88	89	90	91	93	95	77	95	59	
19	95	96	96	96	95	94	85	90	80	69	60	57	51	52	51	51	55	73	77	73	73	71	70	69	74	96	51	
20	76	80	76	72	75	74	70	67	58	55	51	49	47	45	45	46	50	55	59	62	63	71	72	74	62	80	45	
21	72	75	72	72	73	77	78	77	73	65	55	48	41	36	29	30	33	40	48	52	51	57	62	62	57	78	29	
22	69	69	73	76	82	80	71	68	67	66	64	61	60	57	56	61	72	77	78	78	76	81	82	83	71	83	56	
23	83	79	79	80	82	82	82	82	80	77	77	75	73	72	85	89	88	85	87	93	92	90	93	95	83	95	72	
24	96	96	96	96	96	96	96	96	96	96	95	93	94	94	94	95	96	97	97	97	97	97	97	98	98	96	93	
25	97	96	96	97	96	95	94	93	90	87	82	80	81	84	82	81	85	88	90	89	89	89	93	94	90	97	80	
26	95	91	91	89	90	90	91	89	83	74	63	59	60	56	54	52	57	60	65	65	69	77	77	75	74	95	52	
27	76	63	62	65	68	75	78	74	63	55	42	32	32	33	37	41	48	57	54	54	63	62	66	65	57	78	32	
28	68	61	60	68	71	61	54	54	44	39	36	33	30	28	24	24	24	29	34	42	46	55	55	47	45	71	24	
29	43	54	52	54	60	63	66	69	59	41	26	22	21	18	18	17	21	28	37	48	53	53	58	64	44	69	17	
30	67	53	64	68	61	62	58	54	42	26	22	23	20	19	20	21	25	31	36	40	44	44	46	44	41	68	19	
31	41	39	39	44	49	53	53	54	54	48	30	19	15	14	14	14	18	24	34	29	29	26	31	38	34	54	14	
MEAN	79	79	80	81	82	83	82	81	76	70	64	59	57	55	55	56	59	63	66	69	71	74	76	77	71			
MAX	98	98	98	98	98	98	98	98	98	98	98	97	97	97	97	97	98	98	98	98	98	98	98	98		98		
MIN	41	39	39	44	49	53	53	54	42	26	22	19	15	14	14	14	18	24	28	29	29	26	31	38			14	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 71 percent

MAXIMUM RELATIVE HUMIDITY WAS 98 percent ON 12/10 AT 2300

MAXIMUM DAILY MEAN WAS 98 percent ON 12/11

MINIMUM RELATIVE HUMIDITY WAS 14 percent ON 12/31 AT 1500

MINIMUM DAILY MEAN WAS 34 percent ON 12/31

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix E**  
**Hourly Solar Radiation Data for October through December 2011**

National Enrichment Facility

SOLAR RADIATION in W/M^2 for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX	
01							104	316	527	696	809	852	825	733	584	390	180	17							6033	852	
02							103	312	523	690	800	840	810	736	576	211	178	20								5799	840
03							104	318	527	700	817	860	834	731	597	392	174	9								6063	860
04							100	309	520	685	790	839	811	725	352	317	147	16								5611	839
05							44	219	460	606	693	783	795	715	536	353	104	6								5314	795
06							97	305	516	678	786	835	806	704	554	355	149	12								5797	835
07							92	303	514	681	790	836	806	708	553	362	148	9								5802	836
08							70	299	357	505	786	830	806	711	560	360	148	7								5439	830
09							78	241	416	525	662	216	611	414	561	374	144	7								4249	662
10							17	81	165	218	587	814	801	703	548	353	145	7								4439	814
11							30	204	482	615	689	804	781	665	545	321	150	3								5289	804
12							91	299	502	671	780	821	796	698	546	347	136	3								5690	821
13							81	282	483	649	755	799	779	689	535	339	132	2								5525	799
14							83	289	492	657	765	809	785	691	534	333	125									5563	809
15							81	281	470	650	764	801	781	676	523	325	120									5472	801
16							75	276	478	644	752	796	772	674	523	324	119									5433	796
17							75	271	468	638	749	791	773	681	522	317	104									5389	791
18							73	272	470	634	741	783	758	663	507	308	109									5318	783
19							74	271	465	630	734	773	754	661	509	312	109									5292	773
20							68	268	466	630	730	774	754	661	503	305	102									5261	774
21							66	259	449	606	713	749	727	640	485	292	98									5084	749
22							67	261	453	614	720	762	738	652	502	303	99									5171	762
23							62	252	439	591	699	736	713	628	478	284	91									4973	736
24							58	243	437	600	707	749	723	629	477	284	86									4993	749
25							49	206	296	590	691	731	704	627	469	196	67									4626	731
26							30	183	425	590	693	730	672	626	463	270	82									4764	730
27							10	29	60	117	95	116	185	210	128	157	42									1149	210
28							59	239	430	605	707	761	696	626	472	274	77									4946	761
29							50	239	442	604	710	728	699	582	386	266	68									4774	728
30							48	233	432	595	698	737	705	612	459	264	70									4853	737
31							46	230	428	590	698	737	710	617	465	270	72									4863	737
MEAN	0	0	0	0	0	0	67	251	438	597	713	748	739	648	498	308	115	4	0	0	0	0	0	0	0	5128	
MAX	0	0	0	0	0	0	104	318	527	700	817	860	834	736	597	392	180	20	0	0	0	0	0	0	0		860
MIN	0	0	0	0	0	0	10	29	60	117	95	116	185	210	128	157	42	0	0	0	0	0	0	0	0		

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = 449 W/M^2      MAXIMUM DAILY TOTAL WAS 6063 W/M^2 ON 10/ 3

MAXIMUM SOLAR RADIATION WAS 860 W/M^2 ON 10/ 3 AT 1200      MINIMUM DAILY TOTAL WAS 1149 W/M^2 ON 10/27

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY ---

382 CASES OF SOLAR RADIATION BETWEEN 0 AND -10 SET TO 0

National Enrichment Facility

SOLAR RADIATION in W/M^2 for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX	
01							50	227	425	585	686	723	695	600	449	259	66								4765	723	
02							41	228	430	581	685	716	688	585	408	209	46									4617	716
03							48	237	435	593	695	735	709	614	457	260	64									4847	735
04							32	193	382	539	641	675	649	560	413	223	41									4348	675
05							7	185	414	572	677	708	670	569	391	188	41									4422	708
06							37	207	399	556	657	696	670	569	443	249	54									4537	696
07							16	196	389	546	650	692	669	581	432	237	51									4459	692
08							32	215	416	581	682	721	690	594	438	245	57									4671	721
09							34	133	259	458	524	442	525	580	444	216	51									3666	580
10							31	204	397	562	668	708	679	586	438	244	54									4571	708
11							43	139	287	402	492	451	377	414	386	157	13									3161	492
12							2	39	181	419	530	623	502	425	231	146	25									3123	623
13							36	165	297	478	604	542	490	324	200	122	24									3282	604
14							12	122	110	206	257	471	514	385	166	144	23									2410	514
15							22	184	373	530	634	677	651	560	410	219	41									4301	677
16							22	178	361	517	628	674	648	556	409	218	42									4253	674
17							21	177	368	524	629	669	643	553	406	217	43									4250	669
18							19	116	339	519	628	669	646	550	401	218	40									4145	669
19							19	166	380	437	648	351	309	307	205	115	33									2970	648
20							6	53	139	495	567	587	531	452	304	229	41									3404	587
21	1	1				1	2	13	41	104	101	124	187	202	200	178	34									1189	202
22							14	165	352	511	617	658	634	544	396	211	37									4139	658
23							12	167	342	505	613	658	636	546	399	212	38									4128	658
24							10	153	342	457	562	637	567	395	233	116	28									3500	637
25							8	46	84	75	58	214	316	275	315	159	33									1583	316
26							4	168	318	414	413	368	466	439	343	180	32									3145	466
27							11	156	346	505	611	652	627	538	392	207	35									4080	652
28							10	150	334	490	595	637	614	527	384	202	33									3976	637
29							10	113	257	411	468	488	522	426	254	168	44									3161	522
30							7	137	326	488	596	641	619	534	392	208	36									3984	641
MEAN	0	0	0	0	0	0	21	154	317	469	560	587	571	493	358	199	40	0	0	0	0	0	0	0	0	3770	
MAX	1	1	0	0	0	1	50	237	435	593	695	735	709	614	457	260	66	0	0	0	0	0	0	0	0		735
MIN	0	0	0	0	0	0	2	13	41	75	58	124	187	202	166	115	13	0	0	0	0	0	0	0	0		

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = 340 W/M^2

MAXIMUM DAILY TOTAL WAS 4847 W/M^2 ON 11/ 3

MAXIMUM SOLAR RADIATION WAS 735 W/M^2 ON 11/ 3 AT 1200

MINIMUM DAILY TOTAL WAS 1189 W/M^2 ON 11/21

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY ---

383 CASES OF SOLAR RADIATION BETWEEN 0 AND -10 SET TO 0

National Enrichment Facility

SOLAR RADIATION in W/M^2 for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOTAL	MAX	
01							8	86	155	347	450	612	593	504	358	181	27								3321	612	
02				1			2	15	42	64	72	80	82	54	41	24	4									481	82
03							2	136	317	476	583	627	604	520	372	194	31									3862	627
04							5	40	93	189	265	248	183	223	135	93	26									1500	265
05	1	1					2	31	104	213	240	121	98	97	63	31	9									1011	240
06							2	68	240	490	704	753	726	595	447	236	44									4305	753
07							5	142	348	499	582	625	602	517	377	177	26									3900	625
08							2	117	302	468	579	623	549	421	346	188	30									3625	623
09								105	293	447	556	603	585	504	363	187	30									3673	603
10							1	21	58	113	143	129	126	100	43	23	5		1	1	1					765	143
11							1	19	49	70	87	102	75	67	46	29	7									552	102
12							2	23	61	89	122	136	98	76	52	27	5									691	136
13							1	11	31	51	80	93	145	176	103	55	10									756	176
14								26	98	208	323	426	405	387	363	192	37									2465	426
15								53	164	237	223	414	548	265	149	94	11									2158	548
16								73	206	348	537	589	572	495	354	166	25									3365	589
17						1	2	47	125	185	279	264	234	155	98	79	12									1481	279
18							1	37	94	165	263	304	353	248	238	184	11									1898	353
19	1						1	38	250	440	521	580	579	466	392	203	39									3510	580
20								93	308	424	482	615	592	513	377	204	39									3647	615
21								89	269	434	550	604	591	514	380	206	40									3677	604
22								89	269	431	551	578	575	501	292	116	20									3422	578
23								10	41	92	127	175	163	107	72	32	6									825	175
24							1	27	84	165	312	290	398	253	179	75	21									1805	398
25							1	17	48	127	295	502	314	202	154	99	18									1777	502
26								89	272	442	567	630	620	542	405	225	48									3840	630
27								85	271	441	556	615	608	534	399	221	49									3779	615
28								85	269	438	557	615	606	532	399	221	49									3771	615
29								83	262	426	545	602	597	526	396	223	50									3710	602
30								79	258	424	543	600	590	522	394	222	49									3681	600
31								80	262	431	551	610	606	537	408	237	63									3785	610

MEAN	0	0	0	0	0	0	1	62	182	302	395	444	433	360	264	143	27	0	0	0	0	0	0	0	0	2614	
MAX	1	1	0	1	0	1	8	142	348	499	704	753	726	595	447	237	63	0	1	1	1	0	0	0		753	
MIN	0	0	0	0	0	0	0	10	31	51	72	80	75	54	41	23	4	0	0	0	0	0	0	0			

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN OF DATA > 0 = 242 W/M^2      MAXIMUM DAILY TOTAL WAS 4305 W/M^2 ON 12/ 6

MAXIMUM SOLAR RADIATION WAS 753 W/M^2 ON 12/ 6 AT 1200      MINIMUM DAILY TOTAL WAS 481 W/M^2 ON 12/ 2

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY ---

315 CASES OF SOLAR RADIATION BETWEEN 0 AND -10 SET TO 0

**Appendix F**  
**Hourly Barometric Pressure Data for October through December 2011**



National Enrichment Facility

PRESSURE in mb for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN	
01	904	904	904	904	904	904	905	905	905	905	905	905	904	903	903	902	902	902	902	903	903	903	903	903	904	905	902	
02	903	903	903	903	903	904	904	904	904	904	904	904	903	902	901	901	901	901	902	902	903	903	903	903	903	903	904	901
03	903	903	903	903	903	903	904	904	904	904	904	903	903	902	902	901	901	901	902	902	903	903	903	903	903	904	901	
04	903	902	902	902	902	902	903	903	903	903	902	902	901	900	899	899	899	898	899	900	900	899	899	899	901	903	898	
05	899	899	899	898	898	898	898	898	899	899	899	898	897	896	895	895	894	894	894	895	895	895	895	895	897	899	894	
06	894	894	894	894	894	894	894	894	895	894	894	893	893	892	891	890	890	889	890	891	892	892	892	892	892	892	889	
07	892	893	893	893	893	894	894	895	895	895	895	894	893	892	892	891	891	891	892	892	892	892	892	892	893	895	891	
08	893	894	894	895	896	896	897	898	898	898	897	897	896	895	894	894	894	895	895	896	897	898	898	898	896	898	893	
09	898	897	897	897	898	898	899	900	900	900	900	899	898	898	898	898	898	898	899	899	900	900	900	900	899	900	897	
10	900	900	900	900	900	901	901	901	902	901	901	900	899	898	898	897	897	896	896	897	897	898	898	897	897	902	896	
11	897	897	896	896	896	896	896	896	896	896	896	895	894	893	892	891	891	891	891	891	892	893	893	893	893	897	891	
12	893	893	893	893	894	894	894	895	896	896	896	896	896	896	895	895	896	896	897	898	898	899	899	899	896	899	893	
13	900	900	900	900	901	901	901	901	901	901	901	900	899	897	897	896	896	896	896	897	897	897	897	897	896	901	896	
14	896	896	896	896	896	896	897	897	897	897	897	897	897	896	895	895	895	895	895	896	896	897	898	898	896	898	895	
15	899	899	899	899	899	900	900	901	902	902	901	901	900	899	899	899	899	899	899	899	900	900	901	901	901	900	899	
16	900	900	900	900	900	900	900	901	901	901	901	900	899	898	897	897	896	896	896	897	897	897	897	897	899	901	896	
17	897	896	896	896	896	896	896	896	896	896	895	894	894	892	892	891	892	893	895	897	898	899	900	901	901	896	891	
18	902	902	903	904	905	905	906	907	907	907	907	906	905	905	904	904	904	905	905	905	905	906	906	906	905	907	902	
19	906	905	905	905	905	905	906	906	906	906	905	904	903	902	901	900	900	900	900	900	900	899	899	899	903	906	899	
20	898	898	898	898	898	898	898	898	898	898	898	897	896	896	896	896	896	896	897	898	898	899	899	899	898	899	896	
21	899	899	899	900	900	900	901	902	902	902	902	901	900	899	899	899	898	899	899	899	900	899	899	899	900	902	898	
22	899	899	899	899	899	899	899	900	900	900	899	899	898	897	897	897	897	897	897	898	898	899	899	899	898	900	897	
23	899	899	899	900	901	901	902	903	903	903	903	902	902	901	901	901	901	901	902	902	903	903	903	903	902	903	899	
24	903	903	903	903	903	903	904	904	904	904	904	903	901	901	900	900	900	900	900	900	900	900	900	900	902	904	900	
25	900	900	899	899	899	899	899	900	900	900	899	898	897	896	896	895	895	895	896	896	896	896	896	896	898	900	895	
26	896	896	896	896	896	896	896	897	897	898	897	897	895	894	894	893	893	893	893	893	894	896	896	895	895	898	893	
27	895	896	897	897	898	900	900	901	902	902	903	902	902	902	902	902	902	903	903	904	904	904	904	901	904	895		
28	904	904	904	904	905	905	906	907	907	908	908	907	906	906	906	906	906	906	907	907	907	907	907	907	906	908	904	
29	907	906	906	905	905	905	905	905	905	904	904	902	901	899	899	898	898	898	898	898	898	898	898	902	907	898		
30	898	898	897	898	898	899	899	901	901	902	902	902	902	902	902	902	902	903	904	904	905	905	905	905	902	905	897	
31	904	904	904	904	904	903	904	904	904	904	904	903	901	900	900	899	899	899	899	899	900	900	899	899	902	904	899	
MEAN	899	899	899	899	900	900	900	901	901	901	901	900	899	898	898	897	897	898	898	899	899	899	899	899	899			
MAX	907	906	906	905	905	905	906	907	907	908	908	907	906	906	906	906	906	906	907	907	907	907	907	907		908		
MIN	892	893	893	893	893	894	894	895	894	894	893	893	892	891	890	890	889	890	891	892	892	892	892	892			889	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 899 mb

MAXIMUM PRESSURE WAS 908 mb ON 10/28 AT 1000

MAXIMUM DAILY MEAN WAS 906 mb ON 10/28

MINIMUM PRESSURE WAS 889 mb ON 10/ 6 AT 1700

MINIMUM DAILY MEAN WAS 892 mb ON 10/ 6

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

PRESSURE in mb for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN	
01	899	898	898	898	898	898	898	899	899	898	898	897	896	895	894	894	894	894	894	894	894	894	894	894	894	896	899	894
02	894	894	894	894	894	895	895	897	897	899	901	902	902	904	905	906	907	909	910	911	911	912	912	912	912	902	912	894
03	912	911	911	912	911	911	912	912	912	912	911	910	908	907	906	906	905	905	905	905	905	905	905	904	904	908	912	904
04	903	903	902	902	901	901	901	901	901	901	900	899	898	897	896	896	895	895	896	895	896	895	895	894	894	899	903	894
05	893	892	892	891	891	890	891	891	891	891	890	889	888	888	888	888	889	890	891	892	892	893	894	894	894	891	894	888
06	894	894	895	895	895	896	897	898	898	898	898	897	896	895	895	895	895	896	896	896	896	896	896	896	895	896	898	894
07	895	895	894	894	894	894	895	895	895	895	895	894	892	892	892	891	891	891	892	892	892	894	894	894	894	893	895	891
08	894	895	895	896	896	896	897	898	899	899	899	899	899	899	899	900	900	902	903	904	904	905	905	906	900	906	894	
09	906	906	906	907	907	909	909	910	911	912	912	911	910	910	909	909	910	910	910	910	911	912	912	912	912	910	912	906
10	912	912	912	912	912	912	912	913	913	913	912	911	910	908	908	907	907	906	906	906	906	906	905	905	909	913	905	
11	904	903	902	902	902	901	901	901	901	901	901	900	898	898	897	897	897	897	897	897	896	896	896	895	895	899	904	895
12	895	894	894	894	894	894	894	895	895	895	895	894	894	893	893	893	894	894	894	894	895	895	895	894	894	895	895	893
13	894	894	894	893	893	893	894	894	894	894	894	893	892	892	892	892	892	892	893	894	894	894	894	894	893	894	892	
14	894	894	894	893	894	895	894	894	895	895	895	893	892	891	891	890	891	892	892	893	892	893	893	893	893	893	895	890
15	892	892	892	892	892	893	893	894	894	895	894	893	892	892	892	891	892	892	893	893	894	894	894	894	893	895	891	
16	894	894	894	894	895	896	897	898	899	899	899	899	899	899	900	901	902	903	904	905	906	907	907	908	900	908	894	
17	909	910	910	909	909	910	911	911	910	910	909	907	905	904	903	903	902	902	902	902	901	901	900	900	906	911	900	
18	899	898	898	898	897	897	897	898	897	897	897	895	894	893	892	892	892	892	892	892	892	892	893	893	895	899	892	
19	893	893	893	892	892	892	893	894	894	894	894	893	893	892	892	892	893	893	894	895	895	896	896	896	893	896	892	
20	896	896	896	897	897	898	898	899	900	901	901	900	899	899	899	899	899	899	900	900	900	901	900	900	899	901	896	
21	899	899	898	898	898	898	898	898	898	898	897	897	897	895	894	895	895	896	896	897	897	898	899	899	897	899	894	
22	899	899	899	899	900	900	901	902	903	903	903	903	902	902	902	902	902	903	904	904	904	905	905	906	902	906	899	
23	906	906	905	905	905	906	906	907	907	907	907	906	905	904	904	903	903	904	904	904	904	904	904	904	905	907	903	
24	904	903	903	902	902	902	902	903	903	902	902	901	900	899	899	899	899	898	899	899	899	899	898	898	901	904	898	
25	897	896	896	895	895	895	894	895	895	896	895	893	892	892	892	892	892	892	893	893	894	894	894	894	894	894	897	892
26	894	895	895	897	898	900	901	902	904	907	908	907	907	907	908	908	909	910	911	911	912	912	912	913	905	913	894	
27	913	913	913	913	913	913	913	913	913	913	912	911	910	908	908	908	907	907	907	907	906	906	906	905	910	913	905	
28	905	904	904	903	902	902	902	902	902	901	901	900	899	899	898	899	899	899	899	900	900	900	901	901	901	901	905	898
29	901	901	902	903	903	904	905	905	906	907	907	907	906	905	905	905	905	905	906	906	906	906	906	906	905	907	901	
30	905	905	905	904	903	903	903	903	903	902	901	900	898	897	896	896	895	895	895	895	895	895	895	895	899	905	895	
MEAN	900	900	900	899	900	900	900	901	901	901	901	900	899	899	898	898	898	899	899	900	900	900	900	900	900	900	913	888
MAX	913	913	913	913	913	913	913	913	913	913	912	911	910	910	909	909	910	910	911	911	912	912	912	913		913		
MIN	892	892	892	891	891	890	891	891	891	891	890	889	888	888	888	888	889	890	891	892	892	893	893	893			888	

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 900 mb

MAXIMUM PRESSURE WAS 913 mb ON 11/27 AT 700

MAXIMUM DAILY MEAN WAS 910 mb ON 11/27

MINIMUM PRESSURE WAS 888 mb ON 11/ 5 AT 1400

MINIMUM DAILY MEAN WAS 891 mb ON 11/ 5

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

National Enrichment Facility

PRESSURE in mb for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MN	MAX	MIN	
01	894	894	894	894	894	895	895	896	897	899	899	899	899	899	900	900	902	903	904	906	907	907	907	907	900	907	894	
02	907	907	907	907	906	906	906	906	906	906	905	904	902	902	901	900	899	899	899	898	898	897	896	895	903	907	895	
03	895	894	895	896	894	894	895	896	896	897	897	897	896	896	897	897	897	898	899	900	901	901	901	901	897	901	894	
04	900	900	901	901	901	901	901	901	901	901	900	900	899	898	897	897	897	897	897	898	900	901	900	900	900	901	897	
05	900	900	900	901	901	903	903	904	905	905	904	904	904	903	903	904	904	905	906	906	907	907	907	907	904	907	900	
06	907	907	907	906	906	906	907	907	907	907	907	906	905	904	904	904	904	904	904	904	905	905	905	905	905	907	904	
07	905	905	905	905	905	905	905	905	905	905	906	905	905	904	903	903	902	902	902	902	902	902	901	901	904	906	901	
08	901	900	899	899	899	899	899	899	899	899	899	899	898	898	897	897	897	897	898	898	899	899	900	901	899	901	897	
09	901	901	901	901	902	903	903	904	905	906	906	906	905	905	905	906	906	907	908	909	909	910	910	910	905	910	901	
10	910	910	910	910	910	910	911	911	912	912	912	912	911	910	908	908	908	908	908	908	908	908	908	908	907	909	912	907
11	907	906	906	905	904	904	904	904	904	904	903	902	901	901	900	900	900	900	900	900	900	900	900	900	902	907	900	
12	900	900	899	899	899	900	899	900	900	901	901	900	899	898	898	898	899	899	899	900	900	900	900	900	899	901	898	
13	900	900	899	899	899	899	899	899	899	899	899	898	897	896	896	895	895	895	895	895	895	896	896	896	896	897	900	895
14	895	895	896	896	896	897	897	898	898	899	898	898	897	897	897	897	897	898	898	899	899	899	899	899	898	899	895	
15	900	900	900	900	900	901	901	902	902	903	903	902	901	901	901	901	902	903	904	905	905	905	906	906	902	906	900	
16	906	906	906	906	906	907	907	908	909	909	909	909	908	907	907	907	908	909	909	910	910	910	910	910	908	910	906	
17	910	910	910	910	910	910	911	911	912	912	912	912	911	910	909	908	908	908	908	908	908	908	908	908	910	912	908	
18	907	907	906	906	905	905	905	905	905	905	904	903	901	900	899	898	898	897	897	896	895	896	895	893	901	907	893	
19	891	891	890	889	889	889	890	890	890	890	890	889	888	888	888	889	890	891	893	894	895	896	896	897	891	897	888	
20	897	897	897	898	898	898	899	899	900	901	900	899	898	897	897	896	896	897	897	897	897	897	896	896	898	901	896	
21	895	895	895	895	894	895	895	895	895	895	894	893	892	891	890	890	891	891	892	892	893	893	894	893	893	895	890	
22	894	894	894	895	896	897	898	899	901	902	902	902	901	901	902	902	903	904	905	905	906	906	906	907	901	907	894	
23	907	906	906	906	907	907	908	908	909	909	909	908	907	906	906	906	906	907	908	908	908	908	908	908	907	909	906	
24	907	907	907	907	907	908	908	908	909	910	909	908	907	907	907	907	907	908	908	908	909	909	909	909	908	910	907	
25	908	908	908	908	908	908	908	909	910	911	910	909	908	908	908	908	908	908	908	908	908	907	907	906	908	911	906	
26	905	905	904	903	903	903	902	902	902	902	902	901	900	899	899	899	899	900	900	901	901	902	902	903	902	905	899	
27	903	904	904	905	905	906	906	907	907	907	907	905	904	903	902	902	901	901	901	901	901	901	901	900	904	907	900	
28	899	899	899	899	899	900	901	901	902	903	903	902	902	901	901	900	901	901	901	901	901	901	900	900	901	903	899	
29	900	899	898	898	898	898	898	898	898	898	897	896	895	894	894	894	894	894	894	894	895	895	895	896	896	900	894	
30	896	897	897	898	899	901	901	902	903	904	903	903	902	901	900	900	899	900	900	900	899	899	899	898	900	904	896	
31	898	898	897	897	897	897	897	898	898	898	898	897	896	896	897	897	898	899	901	902	904	906	907	908	899	908	896	
MEAN	901	901	901	901	901	902	902	902	903	903	903	902	901	901	900	900	901	901	901	902	902	902	902	902	902	902		
MAX	910	910	910	910	910	910	911	911	912	912	912	911	910	909	908	908	908	909	909	910	910	910	910	910		912		
MIN	891	891	890	889	889	889	890	890	890	890	890	889	888	888	888	889	890	891	892	892	893	893	894	893			888	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

MONTHLY MEAN = 902 mb

MAXIMUM PRESSURE WAS 912 mb ON 12/17 AT 1000

MAXIMUM DAILY MEAN WAS 910 mb ON 12/17

MINIMUM PRESSURE WAS 888 mb ON 12/19 AT 1400

MINIMUM DAILY MEAN WAS 891 mb ON 12/19

MEANS REQUIRE 75% VALID DATA  
MISSING DATA DENOTED BY BLANKS

**Appendix G**  
**Hourly Precipitation Data for October through December 2011**

National Enrichment Facility

PRECIPITATION in inches for OCTOBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX	HR	
01																										.00	.00	
02																											.00	.00
03																											.00	.00
04																											.00	.00
05																											.00	.00
06																											.00	.00
07																											.00	.00
08																											.00	.00
09																											.00	.00
10																											.00	.00
11																											.00	.00
12																											.00	.00
13																											.00	.00
14																											.00	.00
15																											.00	.00
16																											.00	.00
17																											.00	.00
18																											.00	.00
19																											.00	.00
20																											.00	.00
21																											.00	.00
22																											.00	.00
23																											.00	.00
24																											.00	.00
25																											.00	.00
26																									.01		.01	.01
27								.12	.05	.01		.01														.19	.12	
28																											.00	.00
29																											.00	.00
30																											.00	.00
31																											.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = .20 inches

MAXIMUM DAILY PRECIPITATION WAS .19 inches on 10/27

MAXIMUM HOURLY PRECIPITATION WAS .12 inches on 10/27 at 600

MISSING DATA IS INDICATED BY ---  
BLANKS INDICATE ZERO PRECIPITATION

National Enrichment Facility

PRECIPITATION in inches for NOVEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX	HR	
01																										.00	.00	
02																											.00	.00
03																											.00	.00
04																											.00	.00
05																											.00	.00
06																											.00	.00
07																											.00	.00
08																											.00	.00
09																											.00	.00
10																											.00	.00
11																											.00	.00
12																											.00	.00
13																											.00	.00
14																											.00	.00
15																											.00	.00
16																											.00	.00
17																											.00	.00
18																											.00	.00
19																											.00	.00
20																											.00	.00
21																											.00	.00
22																											.00	.00
23																											.00	.00
24																											.00	.00
25											.02																.00	.00
26																											.02	.02
27																											.00	.00
28																											.00	.00
29																											.00	.00
30																											.00	.00

POSSIBLE NUMBER OF OBSERVATIONS = 720      ACTUAL NUMBER OF OBSERVATIONS = 720      DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = .02 inches

MAXIMUM DAILY PRECIPITATION WAS .02 inches on 11/25

MAXIMUM HOURLY PRECIPITATION WAS .02 inches on 11/25 at 1100

MISSING DATA IS INDICATED BY ---  
BLANKS INDICATE ZERO PRECIPITATION

National Enrichment Facility

PRECIPITATION in inches for DECEMBER, 2011

HR END DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	TOT	MAX	HR
01																									.00	.00	
02												.01		.01								.01		.01	.04	.01	
03	.01	.01		.01	.01																				.04	.01	
04																						.01			.01	.01	
05	.01																								.01	.01	
06																									.00	.00	
07										.01	.10	.08	.03												.22	.10	
08																									.00	.00	
09																									.00	.00	
10																						.01	.01	.01	.03	.01	
11				.01			.01																		.02	.01	
12			.01																						.01	.01	
13		.01																							.01	.01	
14																									.00	.00	
15																									.00	.00	
16																									.00	.00	
17																									.00	.00	
18																							.02	.07	.09	.07	
19		.04	.05	.05	.14	.04	.01																		.33	.14	
20																									.00	.00	
21																									.00	.00	
22																									.00	.00	
23																									.00	.00	
24																									.00	.00	
25										.01		.02		.02	.02	.01	.01	.01							.10	.02	
26										.01		.03	.04	.06	.06	.05	.03								.28	.06	
27											.02	.04	.04	.04	.03	.01									.18	.04	
28																									.00	.00	
29																									.00	.00	
30																									.00	.00	
31																									.00	.00	

POSSIBLE NUMBER OF OBSERVATIONS = 744      ACTUAL NUMBER OF OBSERVATIONS = 744      DATA RECOVERY RATE = 100 %

TOTAL PRECIPITATION for the MONTH = 1.37 inches

MAXIMUM DAILY PRECIPITATION WAS .33 inches on 12/19

MAXIMUM HOURLY PRECIPITATION WAS .14 inches on 12/19 at 500

MISSING DATA IS INDICATED BY ---  
BLANKS INDICATE ZERO PRECIPITATION