

# *Clarus Data Archival*

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Clarus ICC Meeting - September 14-15, 2009

# Background and Purpose

- **Identified need for *Clarus* data archival**
  - 2007 Kansas City *Clarus* ICC meeting
- **Provide publicly accessible data retrieval of historical ESS data**
  - Useful for supporting research & development, case study reviews, or any user defined activities

# UND STWRC *Clarus* Archival

- **Responds to the call for a *Clarus* data active archive**
  - Community service effort
    - Funding provided by University of North Dakota
      - Support for computer hardware and software
      - Limited staff support (most is volunteer support)
- **Ongoing data archival and on-line distribution**
  - Continuous active archive since December 31, 2008
  - Contains all available observations on the official *Clarus* System (<http://www.clarus-system.com>)



Home

Library

Road Weather Field Research Facility

Research

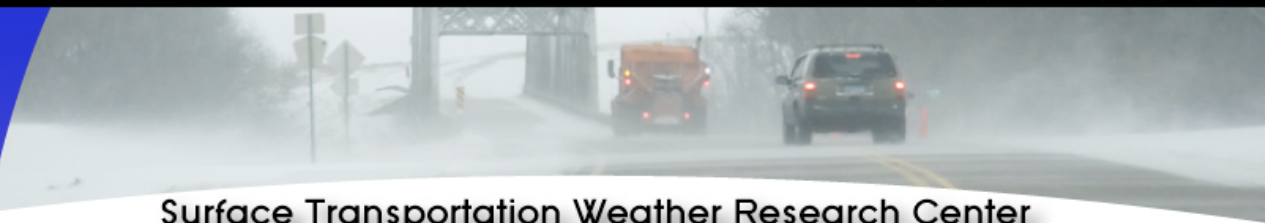
Weather

Links

Clarus

Contact Us

Internal



## Surface Transportation Weather Research Center

The STWRC provides an active archive of the Environmental Sensor Station (ESS) data collected as part of the [FHWA Clarus Initiative](#). This active archive is provided as a service to the Road Weather Community to foster the use of ESS data to better understand the road weather environment and to foster further research on the physics of the roadway environment. Access to the data is open and available to any individual and organization.

*Please be aware that Clarus is an experimental system and data continuity and availability for all times is not guaranteed.*

Select a time using the list below.

*NOTE: Hourly files shown are compressed and the sizes listed are for the uncompressed files combined into the hourly file. Each hourly file contains all data available at the time of the download by UND STWRC, which generally occurs six hours after the original time of the file being posted on the Clarus System. The hourly file typically includes three files representing data available at :00, :20 and :40 minutes after the hour.*

Clarus Data Available:

2009-09-12 @ 00 UTC : 10128 KB
2009-09-11 @ 23 UTC : 10448 KB
2009-09-11 @ 22 UTC : 10272 KB
2009-09-11 @ 21 UTC : 10240 KB
2009-09-11 @ 20 UTC : 10256 KB
2009-09-11 @ 19 UTC : 10128 KB
2009-09-11 @ 18 UTC : 10144 KB
2009-09-11 @ 17 UTC : 10032 KB

Submit Query

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<http://stwrc.und.edu/undclarus.php>

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# File Sizes and Structure

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# Data Selection & Download

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# Coming Enhancements . . .

- **Addition of *Clarus* Meta Data Archival**
  - Files Archived
    - climate.csv
    - climateRecord.csv
    - contrib.csv
    - image.csv
    - obsType.csv
    - obsValueMap.csv
    - organization.csv
    - qchparm.csv
    - sensor.csv
    - site.csv
    - station.csv
  - Available via same UND web URL beginning October 1, 2009

<http://stwrc.und.edu/undclarus.php>

**For further information or assistance:**

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