

## **EOL Data Management Services**

EOL offers the observational research community comprehensive data management, archival, and stewardship services. NSF-funded research teams rely on EOL to facilitate the development and implementation of tailored yet complete data management plans that comply with NSF expectations.



EOL provides data management support through all phases of a field campaign, including the long-term data analysis phase, and provides a secure, easily accessible archive of the collected data after a field deployment, including those from non-EOL sources. EOL is also responsible for developing and stewarding our data services and collaborative tools.

### **EOL Data Services offered**

- Customized data management planning and support
- Interactive mission support tools
- Real-time data sharing and visualization
- Collection of research and operational datasets

- Collection of project documentation and dataset metadata
- Development of sounding composite datasets
- Long-term data stewardship and curation
- Long-term archival of observational datasets, discovery, and access
- Rescue of legacy datasets

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[Home](#)

## PECAN

### Plains Elevated Convection at Night

**PROJECT DATES:** 06/01/2015 - 07/15/2015  
**PROJECT LOCATION:** United States Southern Great Plains

**PROJECT DESCRIPTION**  
 The PECAN (Plains Elevated Convection at Night) campaign was envisioned as a multi-agency project (NSF, NOAA, NASA, DOE) designed to advance the understanding of continental, nocturnal, warm-season precipitation. PECAN was focused on nocturnal convection in conditions over the Southern Great Plains with a stable boundary layer (SBL), a nocturnal low-level jet (NLLJ) and the largest CAPE (Convectively Available Potential Energy) located above the SBL. Thunderstorms are most common after sunset across this region in summer and much of the resulting precipitation falls from mesoscale convective systems (MCSs). Nocturnal MCSs may produce heavy rainfall; their intensity is correlated with the NLLJ. To date, an accurate prediction and an in-depth understanding of elevated convection in this environment remains an elusive goal.

**PARTICIPATING FACILITIES:**  
 King Air w/ WCL, NCAR S-PolKa, 3 DOWs, 3 NCAR ISS, 449 Profiler, Field Catalog and Data Management, Ops Center, potentially Mission Coordinator Display for participating aircraft. Other facilities include NASA DC8, NOAA P3, SMART-Rs, RAXPOL, NOXP, FM-CW radar, MAX, Mobile mesonets, MIPS, Tethersondes, AERI, Water Vapor lidars, wind lidars, etc.

**CONTACT INFORMATION**  
**Principal Investigators**

- [Bart Geerts](#) U. of Wyoming
- [Tammy Weckwerth](#) NCAR/EOL
- [David Parsons](#) OU
- [Conrad Ziegler](#) NSSL
- [David Turner](#) NSSL
- [Richard Ferrare](#) NASA Langley

**Project Manager**

- [Vidal Salazar](#) NCAR/EOL
- [Jim Moore](#) NCAR/EOL

**Data Management**  
**Data Manager:**

- [EOL Archive](#) NCAR/EOL/DMS

**PECAN Publications**  
 PECAN Publications

**Data Access**  
 PECAN Data Access

**Field Catalog**  
 PECAN Field Catalog

**PECAN Data Documentation**  
 PECAN Data Policy  
 PECAN Data Submissions Instructions  
 PECAN Data Set Documentation ("Readme") Guidelines

**PECAN Documents**  
 Site Survey Sep 18, 2014  
 PECAN Operations Plan

**ISS at PECAN**  
 PECAN ISS  
 PECAN ISS IOPs  
 PECAN ISS Surface Observations

**PECAN Meetings and Presentations**  
 PECAN Meetings and Presentations

**PECAN Education**  
 PECAN Advanced Education Resources  
 PECAN K-12 Educational Resources  
 PECAN Teacher Workshop  
 How Do Radars Work?  
 PECAN Q&A Forum

**PECAN Outreach**


## Data Management Planning and Field Support

EOL staff work with each Principal Investigator team to develop a Project Data Management Strategy and a Project Data Policy to facilitate data sharing across the team while ensuring project data archival and investigator attribution. EOL collects supporting data and products in the field and makes them available in real time for mission planning and in-field

decision-making. EOL also provides real-time monitoring and decision-making tools on the ground and onboard the NSF/NCAR research aircraft.

## EOL Field Catalog

The [EOL Field Catalog](#) provides a web-based tool for collecting, organizing, and presenting reports; quick-look data products from operational, research, and model-generated sources; and status information during the field phase of an observational experiment. The Field Catalog serves as the online hub for field project operations and has links to real-time mission coordination displays and communication tools. It also provides real-time visualization of data from varying temporal and spatial resolutions and allows researchers to interact with one another to guide the mission from anywhere in the world.

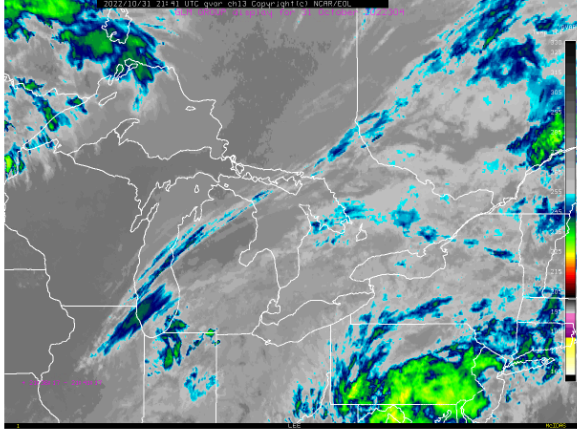


# LEE Field Catalog

Lake Effect Electrification

Home [Maps](#) [Reports](#) [Status](#) [Products](#) [Missions](#) [Tools & Links](#) [Help](#) [Contact Us](#)

### Latest GOES-16 IR GLM Image



### Latest Ops Plan of the Day

**IOP Status: Down**

Ridging and warm conditions are expected over the next seven days, with unfavorable conditions for lake-effect. Inklings of a pattern shift in mid-November. Next action is a focus on ruling out ops on Nov 8-9 so open house crews know whether to return home

**Next meetings**

Forecast: Wed 2 Nov, 1 pm ET, Google Meet  
Even during down periods expect a forecast every 2-3 days; facilitates crew planning.  
Next forecast call likely on Fri.  
Dinner gathering for those visiting: Friday 5 Nov.  
LEE Open House – Saturday, 2-4 pm. Parking lot outside Shineman Center.  
GLASS Conference Saturday, 8:30-3:45 pm. LEE talks from 3:15-3:45. GLASS conference will adjourn to open house site at 3:45, will extend open house until folks disperse. Keynote dinner at 5 pm at Oswego Country Club. 115 attendees.  
Sunday: EFM launch procedure training for Oswego students and EFM team. NSSL LMA installation.

*Last updated 2022-10-31 18:22:44 UTC*



### Project Time

|     |                    |            |                    |
|-----|--------------------|------------|--------------------|
| UTC | Mon, Oct 31, 21:49 | Oswego, NY | Mon, Oct 31, 17:49 |
|-----|--------------------|------------|--------------------|

**External Webpages**  
[EOL](#)  
[EOL/PMO](#)  
[EOL/DMS](#)

**Catalog Resources**  
[Field Catalogs](#)  
[Catalog Users Guide](#)

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## EOL Field Data Archive

EOL archives project datasets on high-performance, redundant, and fault-tolerant storage systems in collaboration with NCAR's Computational Information Systems Laboratory (CISL). The [EOL Field Data Archive](#) builds advanced functionality, such as data discovery, browsing, and subsetting into our data distribution systems upfront. It shares metadata from datasets in various formats, facilitating broad data discovery and linking data to those from other organizations, spreading its use and ensuring a long-lasting scientific legacy. The archive provides long-term stewardship and curation of observational datasets.

EOL | Field Data Archive

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## What is the EOL Field Data Archive?

The EOL Field Data Archive is a curated collection of largely observational datasets from atmospheric research field campaigns, carried out in various places around the globe, dating back to the late 1960s. Datasets are included from field instrumentation operated by NCAR as well as other organizations and investigators. Links are provided, where necessary, to datasets housed at other data archive centers.

[Access Data Archive](#)



## Mission Statement

The mission of the EOL Data Management and Services facility is to provide responsive, high quality data services to researchers in field campaigns including pre-field phase planning, real-time decision-making tools, and long-term data curation to support the complete project life cycle.