

Weekly Report

CIRA
STAR/NESDIS
National Oceanic and Atmospheric Administration (NOAA)

Submitted by: Maranda Hutson
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Prepared by: CIRA and STAR contributors

Products and Applications

Source code release for generating CIRA SLIDER GLM imagery: The source code/sample data package (v1.1.0) to generate GLM imagery on CIRA's SLIDER has been made publicly available on GitHub and Zenodo: https://github.com/yjnoh123/GLM_display_CIRA_SLIDER.git / <https://doi.org/10.5281/zenodo.16623949>

This sample code/data package includes source codes (Shell/Fortran/Python or IDL/color tables) for remapping, redistributing, and plotting GOES-R GLM Level-2 LCFA lightning data—specifically group energy and count—onto ABI sectors for each scan duration with a transparent background, allowing for easy overlay with ABI imagery as displayed on CIRA's SLIDER website (<https://rammb-slider.cira.colostate.edu/>). The code has also been delivered to the GOES Imagery Site Development Team. (POC: Y. J. Noh, Yoo-Jeong.Noh@colostate.edu, CIRA) Funding: GOES-R

Awards and Recognition

Media Interactions and Request

Imagery Production Team Satellite Imagery of 'Megaflash' Used in News Media: In late July, reporting on a 'megaflash' lightning strike from 2017 became public. Satellite visuals created by the Imagery Production Team with the assistance of YJ Noh were used by the Washington Post to highlight the lightning strike. More information and links can be found below. (POC: D. Smith, dakota.smith@colostate.edu Y.J. Noh, Yoo-Jeong.Noh@colostate.edu CIRA) Funding: GOES-R.

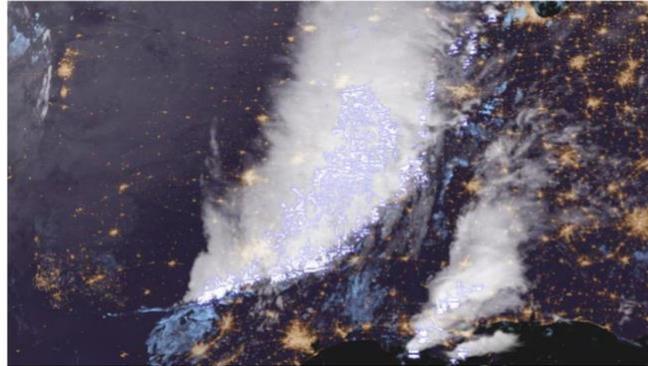
The Washington Post: "Scientists discovered a previously unknown lightning strike that was a record 515 miles long". <https://www.washingtonpost.com/weather/2025/07/31/record-lightning-texas-missouri/>

Scientists discovered a previously unknown lightning strike that was a record 515 miles long

The lightning strike, which occurred over the southern U.S. in 2017, was found in a reanalysis of satellite and lightning data.

July 31, 2025 at 8:00 a.m. EDT

🕒 3 min 📄 Summary 📌 📑 🗨



A 515-mile-long lightning flash captured by the GOES East weather satellite on Oct. 22, 2017. (CIRA/CSU/Dakota Smith)

Blog Posts and Social Media

Travel, Workshops, Conferences, and Meeting Reports

ONR Basic and Applied Research Review Participation: In support of the Office of Naval Research (ONR) Optical Variability Evaluation of Regional Cloud Asymmetries in Space and Time (OVERCAST) project, multiple CIRA scientists shared their research results via participation in the SIDEBAR review, held both in-person and remotely, in Huntsville, Alabama. OVERCAST aims to create a global, three-dimensional cloud product for operational use, combining information from multiple GEO-ring and LEO satellites, including the NOAA-operated satellites forming the basis of the GOES and JPSS programs. Together with CIMSS, CIRA supports the Navy with implementation of NOAA-leveraged cloud retrievals, as well as development of related products. Ten CIRA scientists participated directly in oral presentations, with many others providing material support. (POC: J. M. Haynes, S. D. Miller, john.haynes@colostate.edu, CIRA) Funding: ONR

Training and Education activities

Future Meetings and Events (dates, meeting/event, location, staff involved)

Other