

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

MTG LI Imagery on CIRA's SLIDER: The Lightning Imager (LI) products, along with cloud products, are now available as part of the Meteosat-12 imagery on SLIDER, which was recently upgraded with multiple new servers and expanded Ceph storage. The images are generated from two Level-2 LI "Flash" data: Accumulated Flash Radiance (AFR) and Area (AFA). These datasets, processed and remapped onto FCI pixels by EUMETSAT, are delivered to CIRA's system via the NOAA NESDIS STAR server. (POC: Y.J. Noh, CIRA, Yoo-Jeong.Noh@colostate.edu, N. Tourville, K. Micke, Z. Amundson, C. Seaman; Funding: GEO/GOES-R)

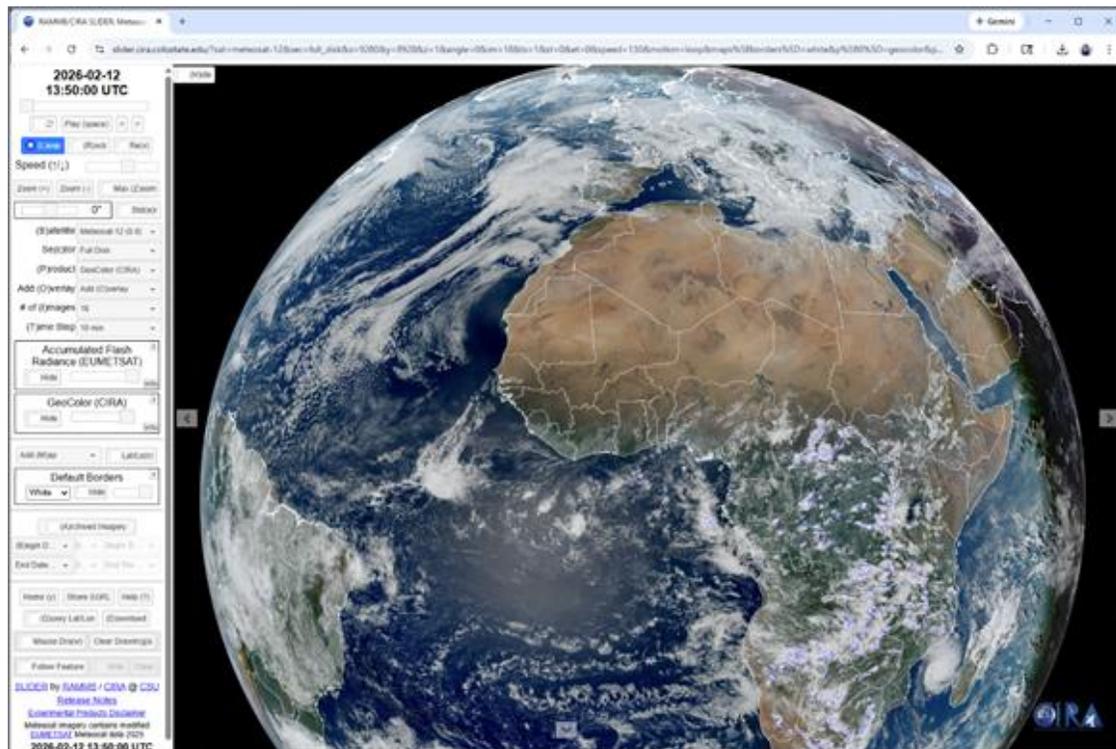


Figure: Example of Meteosat-12 GeoColor imagery with Accumulated Flash Radiance from the Lightning Imager (LI) overlaid, as displayed in CIRA's SLIDER.

Publications (Citation: followed by a short Summary: (Why & so what), & detailed summary):

Awards and Recognition

Media Interactions and Request

Blog Posts and Social Media

Travel, Workshops, Conferences, and Meeting Reports

Training and Education Activities

Robert DeMaria gave a presentation to Dr. Christine Chiu's students providing an overview of [software engineering best practices](#).

CIRA Introduction to Machine Learning/AI: Imme Ebert-Uphoff provided a series of intro sessions on machine learning/AI to a group of 14 scientists, including CIRA scientists and CSU students (from ATS and math dept.) who work on CIRA projects. The series consisted of eight 90 minute sessions, held between Oct 28, 2025 and Feb 10, 2026. It covered ML methods from clustering and random forest to complex neural networks with special emphasis on how to use them for CIRA applications. Other topics included design of custom loss functions to align with project goals, pitfalls when using AI methods (AI is *not* magic), and ways to evaluate AI models using techniques from forecast verification and image processing. This training adds to the already significant number of CIRA scientists trained in ML/AI and we are looking forward to the creative ways in which they will be using their new knowledge in their projects. (POC: I. Ebert-Uphoff, CIRA, iebert@colostate.edu. Funding: CIRA, NSF)

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

Other