

Weekly Report

RAMMB / CIRA
Cooperative Research Program Division (CoRP)
STAR/NESDIS
National Oceanic and Atmospheric Administration (NOAA)

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Prepared by: RAMMB/CIRA contributors

Products and Applications

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

Awards and Recognition

Media Interactions and Requests

Bill Line Interview with Reuters: Bill Line (CoRP/RAMMB) chatted with an individual from Reuters graphics department about satellite imagery generation and the recent Hawaii wildfires. They reached out to Bill after reading the "[Hawaii Wildfires – August 2023](#)" blog post. (POC: B. Line, CoRP/RAMMB, bill.line@noaa.gov) Funding: PDRA

Maui Wildfires: Satellite visuals created in CIRA's Satellite Library were downloaded and featured in several news articles to highlight the devastating wildfires in Maui, Hawaii. More information and links can be found below. (POC: S. Miller, steven.miller@colostate.edu, D. Smith, dakota.smith@colostate.edu, K. Erickson, kim.erickson@colostate.edu, J. Reiter, josh.reiter@colostate.edu, CIRA,) Funding: GOES-R

NBC News: "Maui Fires: 6 dead, at least 171 structures impacted as Hawaii battle blazes", <https://www.nbcnews.com/news/us-news/live-blog/lahaina-maui-fires-live-updates-rcna98986>

The Weather Channel: "Deadly Maui Fires Destroy Lahaina Town", <https://weather.com/news/news/2023-08-09-hawaii-wildfires-maui-lahaina-hurricane-dora>

New York Times: "Maui Town Is Devastated by Deadliest Wildfire to Strike Hawaii", <https://www.nytimes.com/2023/08/09/us/hurricane-dora-hawaii-wildfires.html>

Yahoo!: "Maui Wildfires Appear on Satellite Imagery", <https://www.yahoo.com/lifestyle/maui-wildfires-appear-satellite-imagery-160749891.html>

CNN: "Deadly Wildfires Burning Across Maui Prompt Evacuations", <https://www.cnn.com/us/live-news/maui-wildfires-08-09->

[23#h_f06aa706d9feaad664841a88f0a87f88](https://doi.org/10.21961/23#h_f06aa706d9feaad664841a88f0a87f88)

Space.com: “Aftermath of Hawaii’s deadly wildfire inferno revealed in gut-wrenching satellite images”, <https://www.space.com/hawaii-wildfire-destruction-satellite-images>



Satellite imagery shows the wildfires in Hawaii. By Storyful

Dakota Smith Interview with Wall Street Journal: Dakota Smith was interviewed by the Wall Street Journal to aid in their coverage of the Maui Wildfires. An infographic was created based on this interview. A link to this article can be found below. (POC: dakota.smith@colostate.edu, CIRA) Funding: GOES-R.

https://www.wsj.com/articles/why-maui-wildfires-hawaii-devastating-84651f12?mod=article_inline



Blog Posts and Social Media

New Satellite Liaison Blog Post: Bill Line (CoRP/RAMMB) published a blog post titled “Hawaii Wildfires – August 2023”. The post shares GOES ABI and JPSS VIIRS Imagery and analysis from the devastating Aug 8-10 Hawaii wildfires. See Figure below. The link to the post can be found [here](#).

(POC: B. Line, CoRP/RAMMB, bill.line@noaa.gov) Funding: PDRA

20230809 2346Z N21 VIIRS Day Fire RGB

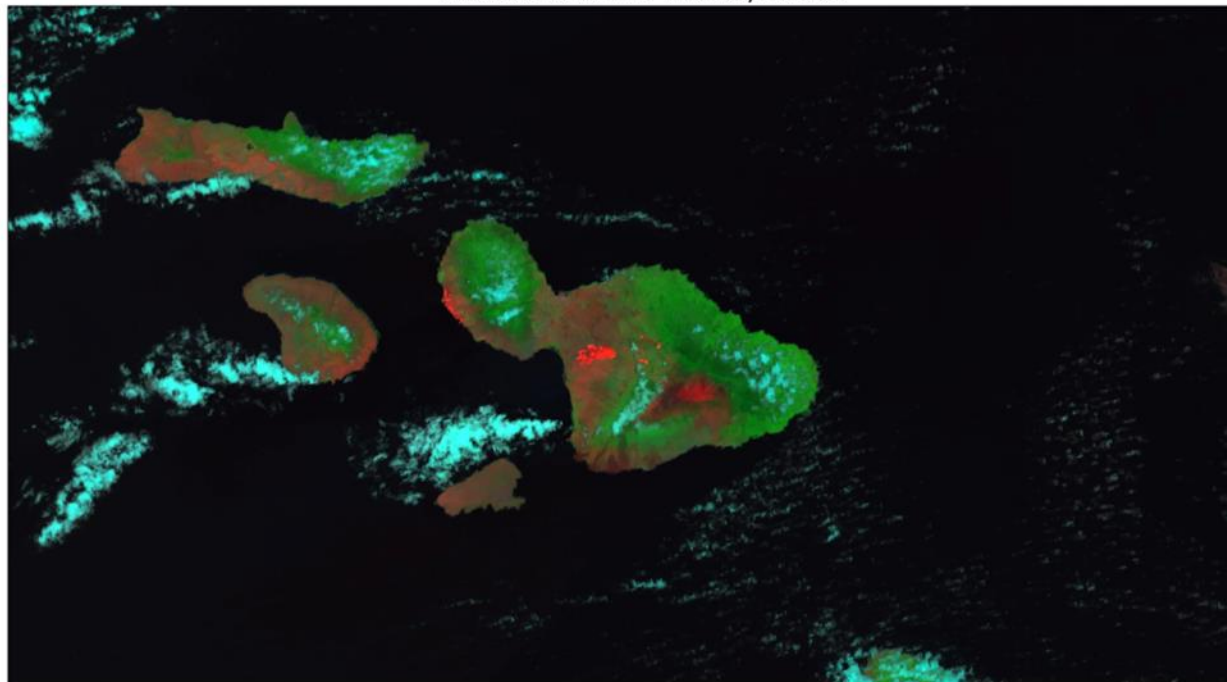


Figure: 2346 UTC 09 Aug 2023 NOAA-21 VIIRS 375-m Day Fire RGB centered over Maui.

Travel, Workshops, Conferences, and Meeting Reports

KPOP-MS 2023 Field campaign: Y. Lee participated in Korea Precipitation Observation Program: International collaborative experiments for Mesoscale convective system in Seoul metropolitan area (KPOP-MS) field campaign from 28 July to 17 August. Y. Lee led the morning and afternoon meetings, prepared educational materials for students, and also launched “Storm Tracker”, which is a recently developed upper-air observational instrument. (POC: Y. Lee, CIRA, yoonjin.lee@colostate.edu, Funding: GOES-R)

Training and Education activities

VISIT teletraining: D. Bikos led the VISIT teletraining session titled “Integrating GOES into Mesoanalysis” on August 15, 2023. The teletraining was attended by 1 attendee at the NWS WFO in Gray, ME and 1 attendee from NWS WFO Minneapolis, MN. (POC: D. Bikos, CIRA, Dan.Bikos@colostate.edu) Funding: VISIT / SHyMet

CSU Data Science Research Institute (DSRI) Undergraduate Research: K. Hilburn mentored data science undergraduate Nathan Mitchell this summer at CIRA with a project applying artificial intelligence to GOES-R Series satellite data. Nathan is presenting his results with a poster titled “Predicting Tropical Cyclone Rapid Intensification using GOES-R Lightning and Machine Learning”.

Nathan describes his experience as “I greatly enjoyed my time here at CIRA working on this project this summer and learned a lot about research into the atmosphere, tropical cyclones, and the application of machine learning to the two.” (POC: K. Hilburn, CIRA, kyle.hilburn@colostate.edu, Funding: GOES-R, CSU DSRI, CIRA ML Strategic).

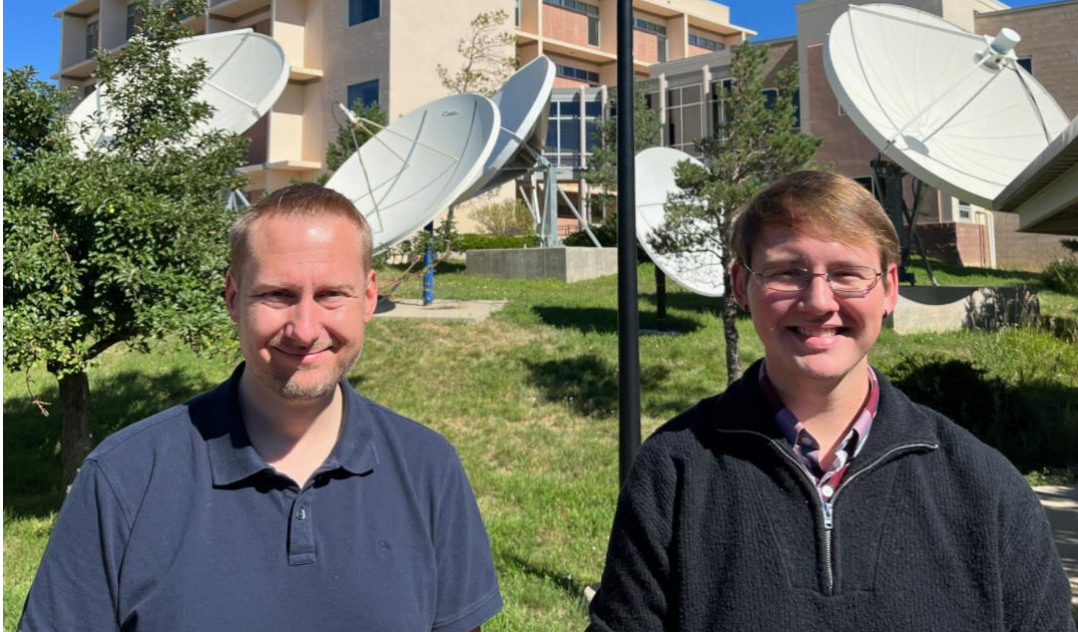


Figure. CIRA scientist Kyle Hilburn (left) and DSRI undergraduate Nathan Mitchell (right).

Collaboration with the National Hurricane Center: Alan Brammer traveled to Miami to work with the Technology & Science Branch (TSB) at NHC on transitioning experimental products and research to operations. This included finalizing transition details of multiple AWIPs display configurations and data ingest software, including real-time observations from aircraft reconnaissance as well as ensemble based forecast products for reconnaissance flight planning. Future plans for development and transition of CIRA based research projects were also discussed between TSB, forecasters with remote collaboration from other CIRA researchers. (POC: A. Brammer, alan.brammer@colostate.edu, Funding: HFIP)

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

Other

Manuscript Reviews: M. McGraw reviewed a manuscript for the *Bulletin of the American Meteorological Society*. (POC: Marie McGraw, CIRA, mmcgraw@rams.colostate.edu)