

Weekly Report

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

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Prepared by: CIRA and STAR contributors

Products and Applications

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

Awards and Recognition

Media Interactions and Request

Imagery Production Team Imagery of Hurricane Milton Featured in Media: In early October, Hurricane Milton made landfall in Florida as a Category 3 storm. Satellite visuals created by the Imagery Production Team made available in CIRA's Satellite Library were used by several high-profile media outlets to highlight Hurricane Milton. More information and links can be found below. (POC: D. Smith, dakota.smith@colostate.edu K. Erickson, kim.erickson@colostate.edu, J. Reiter, josh.reiter@colostate.edu, CIRA) Funding: GOES-R.



CNN: "Earth's strongest storm of 2024, Hurricane Milton, is barreling toward Florida. Here's the latest". https://www.youtube.com/watch?v=wgg7vIRAxKE&ab_channel=CNN&t=15m8s

CNN: "Imagery of a NOAA satellite provides a view of Hurricane Milton...".
https://www.tiktok.com/@cnn/video/7423939680950963486?_t=8qPpeHVXhk6&_r=1;
https://www.youtube.com/shorts/4GuVww_VX4g

CNN: "Winds from Hurricane Milton could pummel both sides of Florida...".
https://www.tiktok.com/@cnn/video/7423479183633829163?_t=8qOABqa6eoV&_r=1

ABC World News Tonight: "Hurricane Milton exploded into a monster category five storm...".
https://www.youtube.com/watch?v=LI-m8sTFSL4&ab_channel=ABCNews&t=0m21s

ABC Worlds News Tonight: "Hurricane Milton forces Millions to evacuate Florida".
https://www.youtube.com/watch?v=35Jul-T_VTI&ab_channel=ABCNews

ABC World News Tonight: "ABC World News Tonight with David Muir Full Broadcast - Oct. 10, 2024". https://www.youtube.com/watch?v=oRK4xsfFso8&ab_channel=ABCNews&t=6m58s

ABC - Good Morning America: "Millions braces a new hurricane closes in on Florida".
https://www.youtube.com/watch?v=fThhUJRq3I&ab_channel=GoodMorningAmerica&t=12s

NBC News: "Satellite images show Hurricane Milton making landfall in Florida".
<https://www.nbcnews.com/video/satellite-images-show-hurricane-milton-making-landfall-in-florida-221371461831>

CBS News: "For the first time in recorded history, three active hurricanes...".
https://www.tiktok.com/@cbsnews/video/7423095891134844202?_t=8qNDSD1YJGU&_r=1

CBS News: "Hurricane Milton, a powerful Category 4 storm, prompts new warnings for Florida amid mass evacuations". <https://www.cbsnews.com/texas/news/tropical-storm-milton-forms-gulf-of-mexico-florida/?intcid=CNR-02-0623>

CBS News: "New details on Hurricane Milton's path as it heads toward Florida".
https://www.youtube.com/watch?v=pXtdu5JR0ZQ&ab_channel=CBSNews

CBS News: "Florida cleans up after Hurricane Milton makes landfall, 16 deaths reported".
https://www.youtube.com/watch?v=L7seVrXmKKw&list=RDNSL7seVrXmKKw&start_radio=1&ab_channel=CBSNews

Newsweek: "Hurricane Milton Fifth Strongest Atlantic Hurricane Ever".
<https://www.newsweek.com/hurricane-milton-category-5-storm-fifth-strongest-ever-atlantic-1965604>

Newsweek: "Hurricane Milton: Public Health Emergency Declared in Florida".

<https://www.newsweek.com/hurricane-milton-category-5-public-health-emergency-florida-1966264>

Newsweek: "Category 6 Hurricanes: Is There Such a Thing?".

<https://www.newsweek.com/hurricane-milton-category-6-weather-storms-climate-change-1965529>

FoxWeather: "Extraordinary: Satellite imagery released by @CIRA_CSU..."

<https://x.com/foxweather/status/1843627820360314972>

DailyMail: "Satellite imagery shows the eye of deadly Hurricane Milton".

<https://www.youtube.com/shorts/hLNPWCM9e28>

Inside Edition: "Hurricane Milton Gathers Strength in Gulf of Mexico".

<https://www.youtube.com/shorts/KwALueznby8>

LiveScience: "Hurricane Milton: Jaw-dropping images taken from space show the storm rapidly intensifying as it approaches Florida". <https://www.livescience.com/planet-earth/hurricanes/hurricane-milton-jaw-dropping-images-taken-from-space-show-the-storm-rapidly-intensifying-as-it-approaches-florida>

SkyNews: "Hurricane Milton: What we know so far about the storm..."

<https://news.sky.com/story/hurricane-milton-what-we-know-so-far-about-the-storm-that-has-forced-millions-to-evacuate-in-the-us-and-mexico-13230131>

Forbes Breaking News: "New Satellite Video Captures The Eye of Hurricane Milton".

https://www.youtube.com/watch?v=xmYYWIL15fE&ab_channel=ForbesBreakingNews

Space.com: "Satellite image captures Hurricane Milton intensifying into Category 5 storm".

<https://www.space.com/hurricane-milton-category-5-satellite-imagery>

Blog Posts and Social Media

New Satellite Liaison Blog Post: Bill Line published a blog post titled "Hurricane Milton (Oct 2024)". The post shares GOES and VIIRS Imagery of Hurricane Milton from throughout its evolution, and provides examples of how the satellite information was used by weather forecasters. See Figure below. The link to the post can be found [here](#). (POC: B. Line, SMCD/APDB, bill.line@noaa.gov) Funding: PDRA and JSTAR

20241008 1900Z N21 VIIRS I2

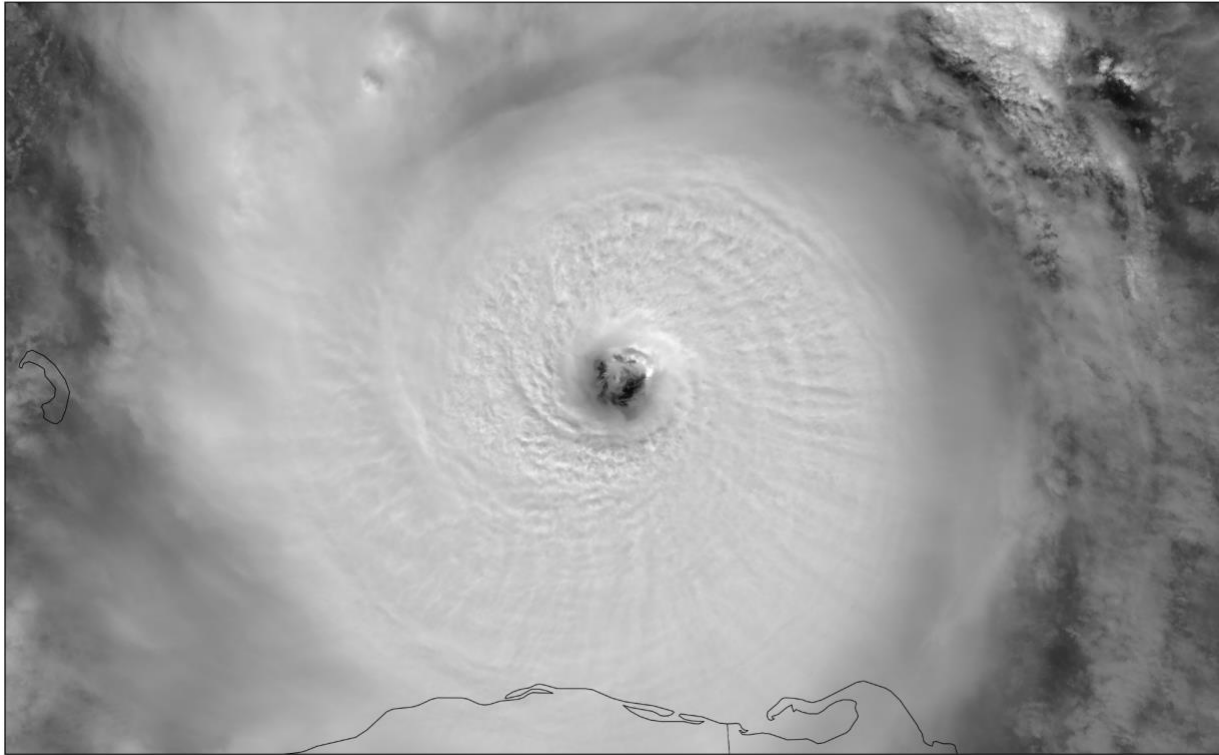


Figure: 08 October 2024 NOAA-21 VIIRS 375-m Band I2.

Travel, Workshops, Conferences, and Meeting Reports

EUMETSAT Meteorological Satellite Conference 2024: Personnel from CIRA and NOAA/NESDIS in Fort Collins presented their work at the EUMETSAT Meteorological Satellite Conference in Würzburg, Germany, which was held the week of 30 September through 4 October, 2024.

John Haynes (CIRA) presented a talk entitled “Water Vapor Detection with New Channels on the GeoXO Imager as Revealed by Simulations”.

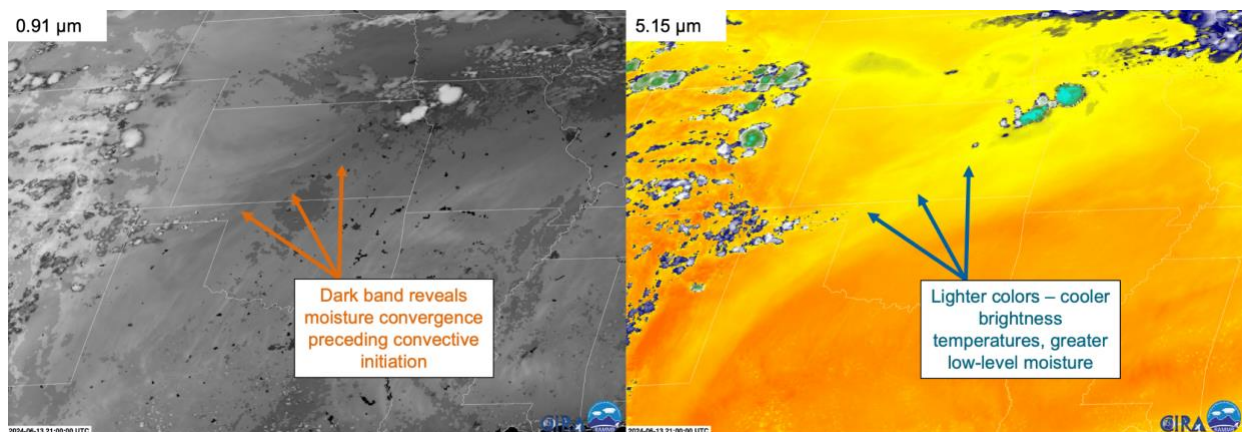


Figure: Simulations of the planned 0.91 and 5.15 μm water vapor bands for GXI. The bands reveal a boundary prior to convective initiation. (J. Haynes)

Dan Lindsey (GOES-R Program Scientist, GeoXO Deputy Program Scientist, NOAA/NESDIS) presented a talk entitled “GeoXO’s Imager: An Overview and Insights Provided by FCI”.

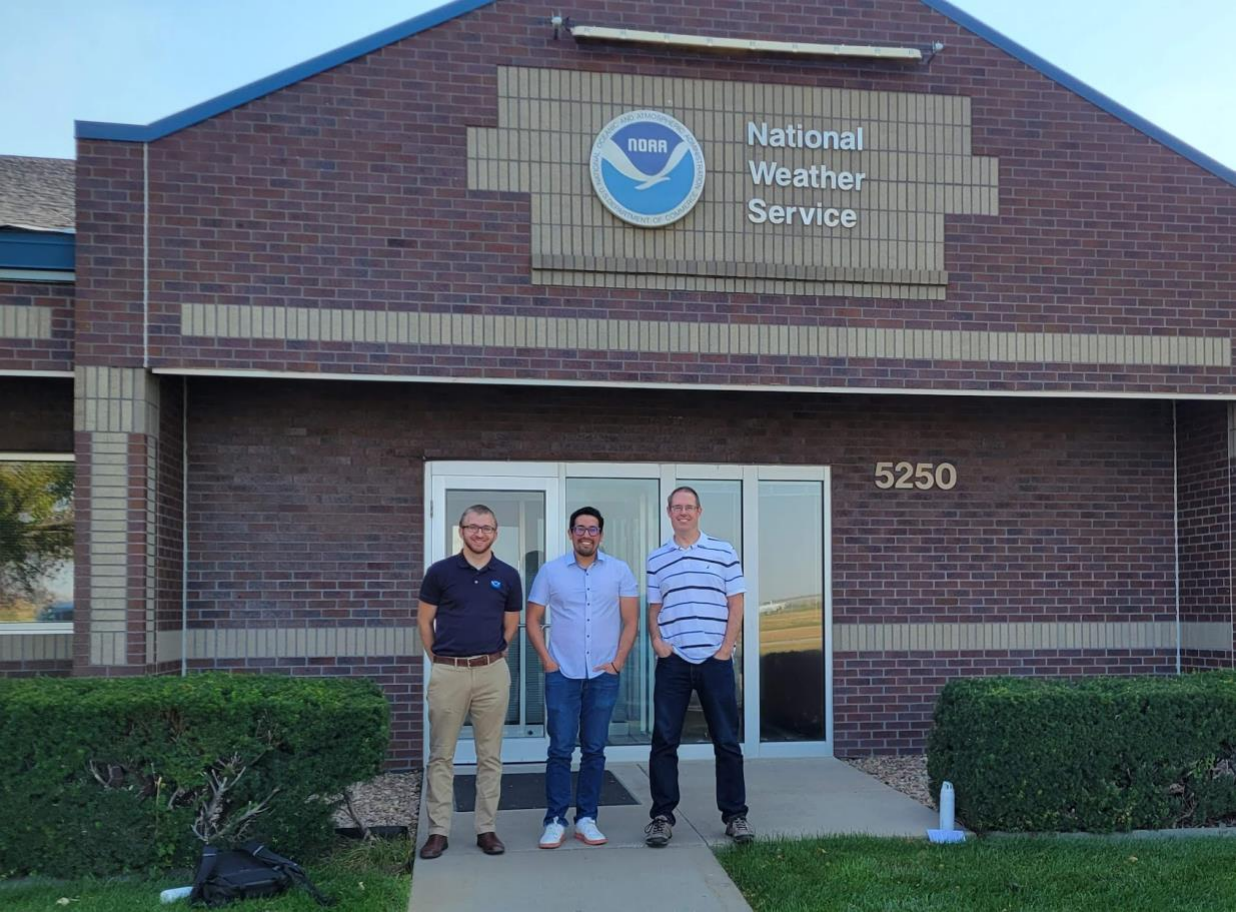
Both of the above presentations included new observations from the Flexible Combined Imager (FCI), the next-generation imager on MeteoSat Third Generation (MTG). FCI contains a near-infrared water vapor channel centered at 0.91 μm that is very similar to the channel planned for GXI.

Galina Chirokova’s (CIRA) poster, “ProxyVis Geostationary Satellite Imagery: Current Use and Future Applications”, described operational uses for the ProxyVis product, which displays daytime-like cloud features at night when traditional reflectance channels are not available.

(POCs: John Haynes, john.haynes@colostate.edu; Dan Lindsey, dan.lindsey@noaa.gov; Galina Chirokova, galina.chirokova@colostate.edu; Funding: NOAA, GOES-R, JPSS, ONR)

Training and Education activities

Visit to NWS North Platte, NE: Dan Bikos (CIRA), Jorel Torres (CIRA), and Bill Line (SMCD/APDB) visited the National Weather Service Weather Forecast Office in North Platte, NE on 8 October 2024. During the visit, they met with the Meteorologist in Charge, Science Operations Officer, Warning Coordination Meteorologist, and numerous forecasters and staff and discussed a range of topics, including newly available satellite products and training, best practices for using satellite information in operations, and unique challenges facing the North Platte WFO. They also spent time in operations reviewing satellite imagery and products and ensuring they were available and working as expected. (POCs: Bill Line, STAR, Dan Bikos, Jorel Torres, CIRA, bill.line@noaa.gov, Dan.Bikos@colostate.edu, Jorel.Torres@colostate.edu funding: PDRA, JPSS, GOES-R)



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

Other