HIGHLIGHTS FOR NESDIS LEADERSHIP

Use-Inspired Science

Raspberry Pi Cameras Installed at Vaisala Inc. and Arizona State University
One Raspberry Pi camera was installed at Vaisala Inc. in Louisville, Colorado, and two cameras were installed at Arizona State University. The camera views are shown in the Figure below. The cameras are located in the area where both GOES-East and -West have overlapping observations. The videos will be used as ground-truth to evaluate the performance of the Geostationary Lightning Mapper (GLM) instruments on these satellites. Currently, there are 12 cameras in operation in Maryland (5), Oklahoma (1), Colorado (2), and Arizona (4).
TRAINING AND EDUCATION

Educational Webinar on GOES-R Geostationary Lightning Mapper Bolide Observations
On Thursday May 18th, 2023, CISESS Scientist Joseph Patton presented a virtual webinar on the observations of bolides (bright flashes from exploding meteors) from the Geostationary Lightning Mappers (GLMs) onboard the GOES-R series weather satellites. The webinar was hosted by the National Weather Service (NWS) Office of Observations Total Operational Weather Readiness – Satellites (TOWR-S) team. Around 60 people were in attendance for the webinar, which included an interactive question and answer session as well as a lively
discussion period afterwards. This presentation walked the audience through the different GLM gridded product observations of several documented bolide cases in the central and eastern United States. Material from this presentation is intended to act as an educational resource for forecasters across the weather enterprise, including the NWS.

**Figure: Joseph Patton presents Webinar hosted by the National Weather Service.**

*(Joseph Patton, CISESS, jpatton4@umd.edu; Funding: GOES-R AWG, GOES-R PGRR)*

**MEDIA INTERACTIONS AND REQUESTS**

**Zhang Speaks at FOX10 about the Raspberry Pi Camera Monsoon Lightning Project in Arizona**

CISESS Scientist Daile Zhang spoke at the FOX 10 with Meteorologist Krystal Ortiz about how the Raspberry Pi high-speed cameras can track monsoon lightning in Arizona. It was aired on May 24, 2023. A video of the interview is available online: [https://www.fox10phoenix.com/video/1225594](https://www.fox10phoenix.com/video/1225594).
Figure: Daile Zhang on FOX10 being interviewed about using high-speed Raspberry Pi cameras to track monsoon lightning in Arizona.

(Daile Zhang, CISESS, dlzhang@umd.edu, Funding: GOES-R AWG, GOES-R PGRR, NOAA ROSES and CISESS Seeds Grant.)