

Weekly Report – March 25, 2022
Satellite Climate Studies Branch (SCSB)/CISESS
NOAA/NESDIS/STAR
Acting Branch Chief: John Knaff

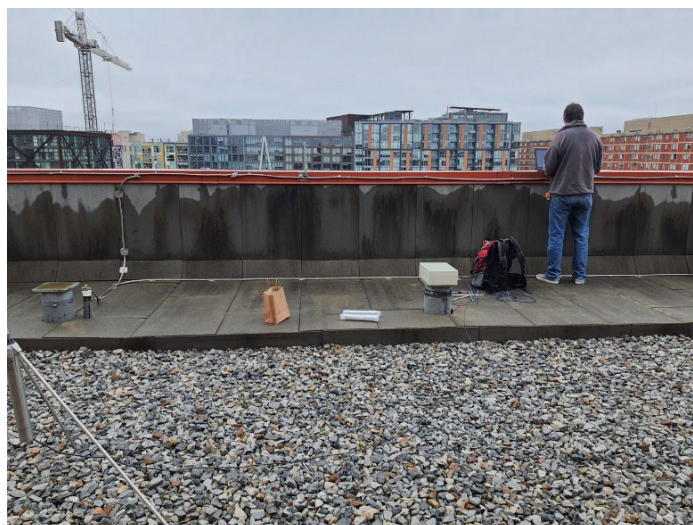
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HIGHLIGHTS FOR NESDIS LEADERSHIP

Data and Information

DC Lightning Mapping Array (LMA) site visits to Howard and Site8 stations: On March 9th and 10th, CISESS Scientists Dr. Guangyang Fang, Joseph Patton, and Daniel Rodeheffer from LMA Technologies, LLC went to Howard University in Washington D.C. and Site 8 located at APL, Johns Hopkins University for a DC LMA site survey and maintenance. There have been noise issues at both locations. A new DC LMA station at Howard University will be installed before the beginning of the convective season that will hopefully mitigate this noise issue. However, before the convective season commences, the team still needs to take noise measurements on the rooftop to be sure it remains compatible for the new instrumentation. Due to spring break at Howard University, the rooftop was locked and only the 5th floor downstairs was open. After taking some measurements on the balcony of the 5th floor, we found the noise level in 30 seconds was -83 dBm for Channel 10, which is good for an LMA site. At another site, Site 8, located at Johns Hopkins University, there is a similar issue with strong background noise occurring even after the new preamplifier was replaced on October 23rd last year. Dan used a LMA sensor that does not generate noise to measure the background noise and found that the Site 8 noise level was around -50 dBm, which is too high for a good LMA station. Additional measurements were taken around the perimeter of the building hosting Site 8, and the noise readings remained high. In the future, another site survey will be conducted at Howard University, and we may consider relocation of Site 8.



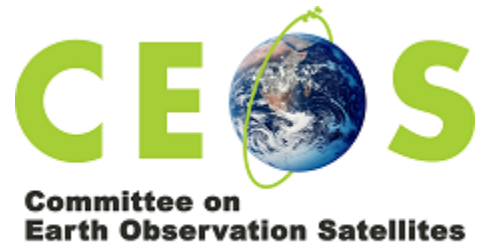
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Figure: Daniel Rodeheffer is shown measuring the background noise level on the balcony of the 5th floor at the Interdisciplinary Research Building (IRB) at Howard University.

(Guangyang Fan, STAR/CRPD/SCSB, gfang@umd.edu, Funding: GOES-R AWG & GOES-R PGRR)

Partnerships

NOAA Input to CEOS Data Document: The Committee on Earth Observation Satellites (CEOS) is developing a standard for data sets: Analysis Ready Data (ARD). Data sets that meet the standard as approved by CEOS are deemed to contain all the information and in a format that a user would need. H. Meng, in her role as the NOAA Representative in the CEOS Precipitation Virtual Constellation (P-VC) group, compiled a list of requirements for the NOAA precipitation products as an initial contribution to the ARD product family specifications for precipitation datasets. (Huan Meng, STAR/CRPD/SCSB, huan.meng@noaa.gov, Funding: PDRA)



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TRAVEL AND MEETING REPORTS

GRWG Chair's Support to the 2022 GSICS Annual Meeting: The 2022 annual Global Space-based Inter-Calibration System (GSICS) meeting was successfully held online on 10 March 2022 and 14 - 18 March 2022.

GSICS, initiated by World Meteorological Organization (WMO) and the Coordination Group for Meteorological Satellites (CGMS) in 2005, is an international collaborative effort to monitor, improve and harmonize the quality of observations from operational weather and environmental satellites of the Global Observing System. As the new presiding chair of the GSICS Research Working Group (GRWG), with the help of GSICS Coordination Center (GCC) and GRWG members, Dr. Fangfang Yu from the UMD/CISESS GOES-R ABI calibration & validation support team led the effort to organize the annual meeting. Dr. Yu also organized and chaired the two plenary sessions - the mini-conference and the agency reports sessions on 14 and 15 March, respectively. She also made the GRWG annual report to the GSICS community in the cross-cutting session on 18 March. The mini-conference this year was resumed after a two-year gap since the pandemic started in early 2020. More than 65 people from different international space and operational agencies, research institutes, universities, and private sectors attended the meeting.

(Fangfang Yu, CISESS & STAR/SMCD/SCDAB, fangfang.yu@noaa.gov, Funding: GOES-R PGRR)



GSICS Wiki » Development web » MeetingsAndConferences » Annualmeeting2022 (18 Mar 2022, Modified)

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GSICS Annual Meeting 2022 [10 March 2022, 14-18 March 2022]

