



# NOAA Center for Atmospheric Sciences and Meteorology



The mission of NOAA Cooperative Science Center in Atmospheric Sciences and Meteorology (NCAS-M) is to produce a diverse and highly trained cadre of technical and environmentally literate professionals to help shape the nation's future STEM workforce and contribute to building a Weather-Ready Nation.

## Outcome of NOAA Funding

### NCAS-M accomplishments 2016 to 2022

- 165 students supported by NCAS-M
- 15 Ph.D., 19 M.S., and 47 B.S. degrees awarded
- 279 presentations at national and international conferences
- 94 peer-reviewed publications by faculty, students and NOAA researchers
- 214 joint collaborative projects with NOAA line offices



Participants at the 2022 EPP/MSI Education and Science Forum

## Capacity Building

The NCAS-M award is building institutional capacity in NOAA mission research priority areas. Center graduates are well prepared to enter the NOAA mission enterprise and contribute to research and operational careers at NOAA. NCAS-M comprises of nine (9) partner institutions, that represent a unique academic environment with a combination of research-intensive institutions, graduate education, collaborative research training, and capacity-building in NOAA mission-aligned disciplines across all campuses.



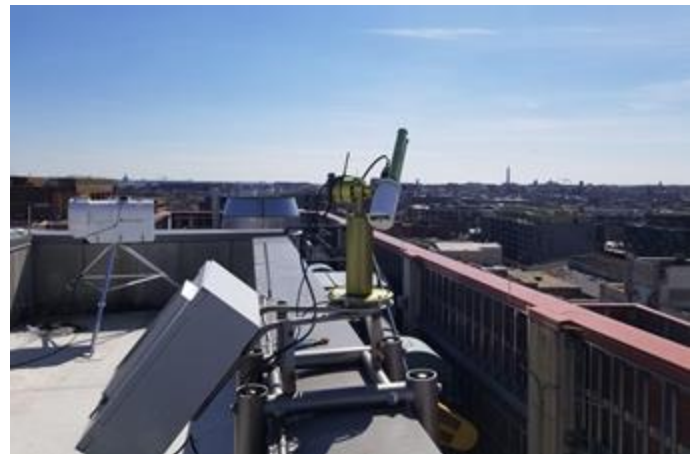
DaNa Carlis, Ph.D., a Howard University NCAS-M alumnus is the director of NOAA's National Severe Storms Laboratory.

All NCAS-M academic partners contribute to a rich spectrum of research and training in atmospheric sciences, meteorology, social, behavioral sciences, and economics. Training includes professional development through workshops, webinars, shared courses, outreach activities, and mentoring. Since 2016, 12 NCAS-M alumni have been employed by NOAA. 96% of graduates employed or to continue advanced degrees. NCAS-M remains the top producer of African American PhDs in Atmospheric Sciences, and a major contributor of Social Scientists to NOAA.

## Significant Contributions to NOAA Mission Enterprise

NCAS-M collaborates with NOAA Line offices in support of the mission in three thematic areas:

1. Innovative observations for advancing climate, weather, and air quality analysis and prediction.
2. Interdisciplinary scientific research to strengthen NOAA modeling and forecasting activities for building community resilience against extreme weather, water, atmospheric, and climate events.
3. Integrated research in support of building public safety through Impact-Based Decision Support Services (IDSS).



NOAA ARL director and the team visit NCAS-M at Howard University discussing DCnet.



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*For more information, please contact  
Dr. Sen Chiao, NCAS-M Director*  
[sen.chiao@howard.org](mailto:sen.chiao@howard.org) | 202-865-8686 | <http://ncas-m.org>

