
Acknowledgements and References

Highlighting the Hot Spots

NOAA's Urban Heat Island Mapping and VR Heat-Mapping Experience

Denise Castillo-Gonzalez (City of Albuquerque, NM)
Rafael DeAmeller (NOAA/NESDIS/VizLab)
Juan Pablo Hurtado (NOAA/NESDIS/VizLab)
Nicole McNeil (Asheville GreenWorks)
Morgan Zabow (NOAA/CPO)

NOAA Satellites Track Trends in Greenhouse Gases

From Both Human and Natural Sources

Satya Kalluri (NOAA/LEO/JPSS)
Shobha Kondragunta (NOAA/NESDIS/STAR)
Jeff Privette (NOAA/NESDIS/NCEI)
Lihang Zhou (NOAA/JPSS)

Monitoring Water and Air Pollution

From the Depths of the Ocean to the Outer Atmosphere

Barron Henderson (EPA)
Shobha Kondragunta (NOAA/NESDIS/STAR)
Jennifer Webster (NOAA/NESDIS/NCEI)

Tracking Wildfires and Smoke

How the View from the Sky Helps Fight Fires on the Ground

Ivan Csiszar (NOAA/NESDIS/STAR)
Ron Evans (EPA)
Shobha Kondragunta (NOAA/NESDIS/STAR)

Maggie Laurino (NOAA/NESDIS)
Michael Pavolonis (NOAA/NESDIS/STAR)
Wilfrid Schroeder (NOAA/NESDIS/OSPO)
Janice Sessing (NOAA/NESDIS)

Monitoring Coral Bleaching Events

From Early Warnings to Building Resilience

Jacqueline De La Cour (NOAA/NESDIS/STAR/SOCD Coral Reef Watch and CISESS/University of Maryland-ESSIC)
Derek Manzello (NESDIS/STAR/SOCD/Coral Reef Watch)

Artificial Intelligence at NOAA

Harnessing Transformative Technology for Social Impact

Heather McCullough (Primary Author, NOAA/NESDIS/NCEI)
Rob Redmon (Secondary Author, NOAA/NESDIS/NCEI, NCAI)
Paula Brown (CSU Dept of Atmospheric Science)
Greg Dusek (NOAA/NOS)
Kathy Haynes (NOAA/NESDIS/STAR and CIRA)
John Knaff (NOAA/NESDIS/STAR)
Jessica Matthews (NOAA/NESDIS/NCEI)
Brian Meyer (NOAA/NESDIS/NCEI)
Manoj Nair (NOAA/NESDIS/NCEI and CIRES)
Michael Pavolonis (NOAA/NESDIS/STAR)
Angela Sallis (NOAA/NESDIS/NCEI and GDIT)
Chris Slocum (NOAA/NESDIS/STAR)
Douglas Rao (NOAA/NESDIS/NCEI and CISESS)
Naufal Razin (NOAA/NESDIS/STAR and CIRA)

NESDIS's Impact on Agriculture

From Outer Space to Our Plates

Martha Anderson (USDA)
Michael Brewer (NOAA/NESDIS/NCEI)
Billy Cox, Cox Centennial Farm
Fen Gao (USDA)
Yun Yang (USDA)
Xiwu "Jerry" Zhan (NOAA/NESDIS/STAR)

Fostering the New Blue Economy

Charting a Course for a Sustainable Future

Paul DiGiacomo (NOAA/NESDIS/STAR)
Jonathan Renner Jackson (NOAA/NESDIS/NCEI)
Marilyn Murphy (NOAA/NESDIS/STAR)
Thomas Renkevans (NOAA/NESDIS/OSPO)
Scott Rogerson (NOAA/NESDIS/OSPO/SPSD/DSB)
Mark Turner (NOAA/NESDIS/OSPO)
Ryan Vandermeulen (NOAA Fisheries)
Erica Wales (NOAA/NESDIS/STAR)

References

Jin D, Moore S, Holland D, Anderson L, Lim W-A, Kim D-H, Jardine S, Martino S, Gianella F, Davidson K. 2020. Evaluating the economic impacts of harmful algal blooms: issues, methods, and examples. In Trainer VL (Ed.) *GlobalHAB. Evaluating, Reducing and Mitigating the Cost of Harmful Algal Blooms: A Compendium of Case Studies*. PICES Sci. Rep. No. 59. <https://meetings.pices.int/publications/scientific-reports/Report59/Rpt59.pdf>

NOAA Fisheries Office of Science and Technology, Commercial Landings Query, Available at: www.fisheries.noaa.gov/foss, Accessed 10/10/2023

William C. Walton and Swann, L. 2021. Role of Sea Grant in Establishing Commercial Oyster Aquaculture through Applied Research and Extension. *Journal of Contemporary Water Research & Education*. 174: 171–179. <https://doi.org/10.1111/j.1936-704X.2021.3367.x>

Forecasting Space Weather

Space Weather Impacts Our Nation and the World

Irfan Azeem (NOAA/NESDIS/SWO)
Daniele Heiny (NOAA/NESDIS/SWO)
Susan Jacobs (NOAA/NESDIS/SWO)
Laurel Rachmeler (NOAA/NESDIS/NCEI)
Jim Spann (NOAA/NESDIS/SWO)
Jim Silva (NOAA/NESDIS/SWO)
Elsayed Talaat (NOAA/NESDIS/SWO)

Fostering Coastal Resilience in a Changing Environment

NESDIS's Capabilities Help Communities Plan and Recover

Sean Helfrich (NOAA/NESDIS/STAR)
Sean Mullen (Ocean Networks Canada)
David Reid (Office of Response, Recovery, and Resilience, County of Santa Cruz, CA)
Kelly Stroker (NOAA/NESDIS/NCEI/Marine Geology and Geophysics Section)

Reference

Amante, C.J.; Love, M.; Carignan, K.; Sutherland, M.G.; MacFerrin, M.; Lim, E. *Continuously Updated Digital Elevation Models (CUDEMs) to Support Coastal Inundation Modeling*. *Remote Sens.* 2023, 15, 1702. <https://doi.org/10.3390/rs15061702>

Making an Impact on Extreme Events and Cascading Hazards

Tracking Tropical Cyclones and Algorithms and Monitoring Droughts

Marshall Baldwin (Hollins Scholar, Summer of 2022)
Richard Heim (NESDIS/NCEI)
John Knaff (NESDIS/STAR)
Chris Slocum (NESDIS/STAR)