



From Science to Solutions: The State of the Carbon Cycle (Spring 2019 Seminar Series)

A collaboration between OneNOAA Seminar Series and the U.S. Carbon Cycle Science Program

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Feb 26

- Two talks: From Science to Solutions: The State of the Carbon Cycle Assessment
- Talk #1. 'Carbon Cycle Science across NOAA: Discussing the Carbon Cycle Interagency Working Group (CCIWG) and SOCCR2 science and societal relevance to NOAA's mission' by **James Butler (Speaker)**, Director, Global Monitoring Division, ESRL/OAR/NOAA
- Talk #2. 'From Science to Solutions: The State of the Carbon Cycle Assessment' by **Gyami Shrestha (Speaker)**, Director, U.S. Carbon Cycle Science Program Office

- [Slides-Butler](#)
- [Slides-Shrestha](#)
- [Recording-Shrestha-Butler](#)

March 5

- Rising Carbon Dioxide's Effects on Land and Ocean, by **Sarah Cooley (Speaker)**, Director, Ocean Acidification Program at Ocean Conservancy & David Moore, Associate Professor, University of Arizona. Presenting remotely.

- [Slides-Cooley-Moore](#)
- [Recording-Cooley](#)

March 12

- Two talks: Recent Trends, Drivers & Projections of Carbon Cycle in Forests and Wetland Soils across North America,
- Talk #1 by **Grant Domke (Speaker)**, Research Scientist, USDA Forest Service; Chris Williams, Land surface hydrologist and Terrestrial ecosystem ecologist, Associate Professor of Geography, Clark University; and
- Talk #2 by **Randy Kolka (Speaker)**, Research Soil Scientist, USDA Forest Service N. Research Station, and Carl Trettin, Research Soil Scientist USDA Forest Service S. Research Station.

- [Slides-Domke](#)
- [Slides-Kolka](#)
- [Recording-Domke-Kolka](#)

March 19

- Carbon Cycling in North America's Land-Ocean Aquatic Continuum, by **Ray Najjar**, Penn State University.

- [Slides-Najjar](#)
- [Recording-Najjar](#)

March 26

- All About Carbon: An Overview of the State of the Carbon Cycle Report, by **Melanie Mayes**, Senior Staff Scientist, Oak Ridge National Laboratory.

- [Slides-Mayes](#)
- [Recording-Mayes](#)

April 2

- Carbon Cycle of North America and Research Needs for Enhancing CO2 Removal, by **Richard Birdsey**, Senior Scientist, Woods Hole Research Center.

- [Slides-Birdsey](#)
- [Recording-Birdsey](#)

April 9

- The Social Implications of Pervasive Carbon, by **Elizabeth L Malone**, Independent Researcher.

- [Slides-Malone](#)
- [Recording-Malone](#)

April 16

- State of Carbon in Soils and Agriculture: Linking North American Science to Global Efforts, by **Nancy Cavallaro**, National Program Leader, Soils Water & Global Change Programs, National Institute of Food and Agriculture, USDA. Remote presentation.

- [Slides-Cavallaro](#)
- [Recording-Cavallaro](#)

April 23

- Indigenous Practices Contribute to Carbon Management and Climate Adaptation, by **Maureen McCarthy**, Tahoe and Great Basin Program Director and Project Director, Water for the Seasons, University of Nevada-Reno.

- [Slides-McCarthy](#)
- [Recording-McCarthy](#)

April 30

- Global carbon budget accounting following the State of the Carbon Cycle Report: The Regional Carbon Cycle Assessment and Processes study (RECCAP-2), by **Ben Poulter**, Research Scientist NASA Goddard Space Flight Center

- [Slides-Poulter](#)
- [Recording-Poulter](#)

May 7

- An overview of Global Carbon Cycle: Where are the Gaps in our Understanding? by **Lori Bruhwiler**, ESRL/OAR/NOAA and 'Summary of the State of the Carbon Cycle Report-2, Chapter 8: Observations of CO2 and CH4' by **John B. Miller**, Global Monitoring Division, ESRL/OAR/NOAA.

- [Slides-Bruhiweiler](#)
- [Slides-Miller](#)

May 14

- Scientific Community Engagement for Carbon Cycle Researchers, by **Libby Larson**, North American Carbon Program (NACP) Coordinator and Senior Support Scientist, NASA Carbon Cycle & Ecosystems Office, NASA Goddard Space Flight Center.

- [Slides-Larson](#)
- [Recording-Larson](#)

May 21

- Where does all the carbon go? Piecing together the North American carbon puzzle from a synthesis of top-down and bottom-up estimates, by **Rodrigo Vargas (Speaker)**, University of Delaware and **Daniel J. Hayes**, University of Maine

- [Slides-Vargas](#)
- [Recording-Vargas](#)

May 28

- Future of North American Carbon Cycle by **Deborah Huntzinger** (Northern Arizona University) & **Abhishek Chatterjee** (NASA Global Modeling and Assimilation Office and Universities Space Research, Maryland).

- [Slides-Huntzinger](#)
- [Recording-Huntzinger](#)

June 4

- North American Energy System Contributions to the Global Carbon Cycle: Will the cycle be unbroken? by **Peter J. Marcotullio**, Professor of Geography, Director of the Institute for Sustainable Cities, Hunter College, City University of New York

- [Slides-Marcotullio](#)
- [Recording-Marcotullio](#)

June 11

- Two talks 'Urban Carbon & Cows, Dirt, Smoke, Water: A State of Carbon Story'
- Talk #1. Urban Carbon by **Kevin Gurney**, Professor, Northern Arizona University
- Talk #2. Cows, Dirt, Smoke, Water: A State of Carbon Story by **Gyami Shrestha**, Director, U.S. Carbon Cycle Science Program Office and UCAR CPAESS

- [Slides-Gurney](#)
- [Slides-Shrestha](#)
- [Recording-Gurney-Shrestha](#)