

# Hilary Peddicord

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## Education

University of Colorado at Boulder, Masters of the Environment | Present (ongoing)

University of Colorado at Boulder, Secondary Science Teaching Certification | 2008 – 2009

University of Wyoming, Bachelor of Science (B.Sc.), Zoology & Dance | 1997 – 2001

## Professional Experience

CIRES Center for Education, Engagement and Evaluation (CEEE), University of Colorado Boulder  
Project Management on Moore Foundation Research | *May 2026 – Present*

Education Lead, [NOAA's Science On a Sphere® \(SOS\)](#) | *June 2012 – Present*

- Lead education strategy and programming for NOAA's flagship visualization system across a global network of 50+ museums and science centers.
- Supervise staff and summer interns.
- Design and deliver community-centered curricula, webinars, workshops, and conferences for students, teachers, and public educators.
- Foster local sustainability initiatives—such as Zero Waste Week—in collaboration with schools and libraries.
- Develop and facilitate cross-sector workshops connecting scientists with formal and informal educators to advance STEM learning outcomes.
- Work as the bridge between CIRES CEEE and NOAA Education teams.

Co-Principal Investigator NSF DRK-12 award – [Building Insights Through Observation](#) | *July 2021 – June 2025*

- Co-Developed STEM curricula blending scientific research, arts-based observation (VTS), and data literacy for K–12 classrooms.
- Collaborated with educators and artists to create effective approaches that increase critical thinking in science and visual literacy in data.
- Co-Authored multiple publications and education materials.

Community Liaison – [Advanced Quantitative Precipitation Information](#) (AQPI) | *August 2019 – October 2021*

- Served as the key communication bridge between research scientists at NOAA and northern California water managers to facilitate the application and utility of a new test model.
- Led weekly meetings to discuss application uses, utilities' needs, and help transition a research project to operations.

K-12 Education Coordinator – NOAA Boulder | *June 2010 – December 2013*

- Coordinated tailored STEM outreach programs across local school districts, delivering educational experiences that connected students with real-world scientific research.
- Facilitated mentorship opportunities between NOAA scientists and students, fostering interest in STEM careers.

Telluride Mountainfilm and Boulder International Film Festival (BIFF)

Festival Emcee & Moderator | Ongoing

- Introduce and interview filmmakers and subject matter experts on environmental and social topics, often engaging crowds up to 400 people.
- Previously recruited, led and organized volunteer teams, promoting festival engagement with a focus on sustainability.

## Key Initiatives & Professional Contributions (Since 2019)

SOS Education Forum Founder & Organizer

Organize monthly education network meetings (~monthly since 2012), fostering interdisciplinary communication and best practices across the global SOS Collaborative Users Network.

Data Lens: Exploring Earth's Visual Stories

Continue to create and launch a monthly data and visual literacy resource that integrates SOS Explorer, NOAA's data catalog, and Visual Thinking Strategies (VTS) for educators.

Building Insights Through Observation Teacher's Toolbox

Co-developed a comprehensive resource distilling three years of NSF-funded research into effective arts-based pedagogy for middle school science education.

Environmental Literacy Program and Science On a Sphere Joint Workshop

Co-led a major workshop with 120+ attendees from 62+ institutions, successfully bridging local sustainability and environmental educational efforts.

The Pandemic and Air Quality Story Map

Initiated and contributed to a key project showing the environmental impacts of the COVID-19 pandemic on air quality, published on all SOS/SOSx platforms and websites. (

Local Sustainability Initiatives

Continue to foster and support local programs, such as Zero Waste Week and Lyons STEM Lab, in collaboration with schools and libraries in St. Vrain Valley and Boulder Valley School Districts.

Research to Operations

Research to Operations: AQPI, SOS Explorer (Advanced Installer)

Research to Education: SOS, SOS Explorer, SOS Explorer Mobile.

## Publications

Journal Articles (Peer-Reviewed)

Building Insights Through Observation: Integrating Art and Science to Support Sensemaking. Semmens K; Peddicord, H., et al. *Science Scope*. March 04, 2025.

Report

NOAA's Science On a Sphere: Use-cases and Practitioner Insights. Bennett-Pierre, G., Peddicord, H, et al. April, 2026. <https://doi.org/10.5281/zenodo.19260940>

Newspaper/Magazine Articles

Leveraging Earth Observations for Education. *Information Today*. December 2019.

Editorial

Students use observation, creative thinking to uncover meaning in scientific data. *CIRES News*. April 2025.

## **Awards, Skills, Certifications, Membership**

### Awards & Recognition (Since 2020)

- NOAA Bronze Medal Award – Team Recipient | 2022, 2025
- CU President’s Diversity, Equity and Inclusion Award – Honorable Mention | 2023
- CIRES Outstanding Performance Award in Service | 2020 (x2)
- Federal Laboratory Consortium Technology Transfer Impact Award | 2020

### Professional Memberships

AESS Board, NAAEE, CSEN, CAEE, CLEAN, SOS Collaborative Users Network.

### Key Skills

Strategic project planning, curriculum design & implementation, cross-disciplinary collaboration, science communication, digital & visual literacy, public speaking, workshop & event coordination, mentoring, supervision, mass communications, crucial conversations, meeting facilitation.

### Subject Matter Expertise

Informal environmental education, K–12 science, data literacy, Visual Thinking Strategies (VTS), general atmospheric/ocean/climate science.

### Certifications

Crucial Conversations, NOAA Climate Stewards Educator, Certified Interpretive Guide, Colorado Secondary Science Teacher License (Highly Qualified in Dance).

### Software

Google Workspace, Microsoft Office, Esri, Adobe After Effects, Adobe Acrobat, Go To Meeting, Zoom, Canva, Asana, SOS Explorer, SOS, Vimeo, limited Markdown and HTML.

### CIRES & NOAA Committees/Teams

CIRES Mentoring Program; NOAA Education Council, NOAA Boulder Outreach Coordinating Council, SOS: Education, Visualization, Operations; CEEE: Education & Engagement, Resilient Futures.