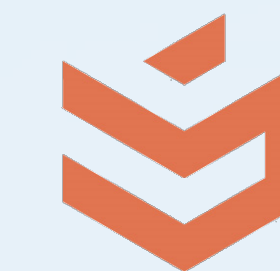
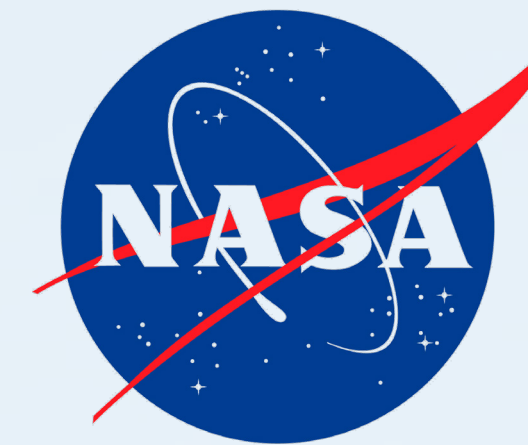
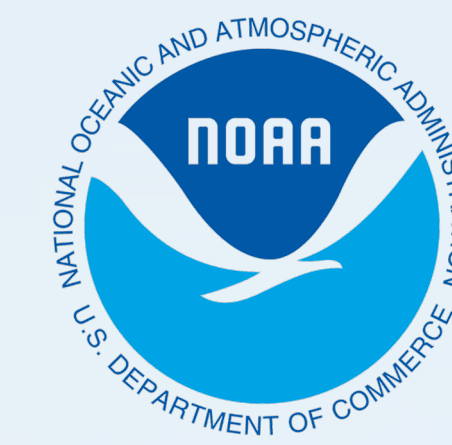


CELEBRATING AMS' EFFORTS TO INCREASE DIVERSITY IN THE GEOSCIENCES

JAMES A. BREY WENDY E. ABSHIRE IRA W. GEER ELIZABETH W. MILLS KIRA A. NUGNES

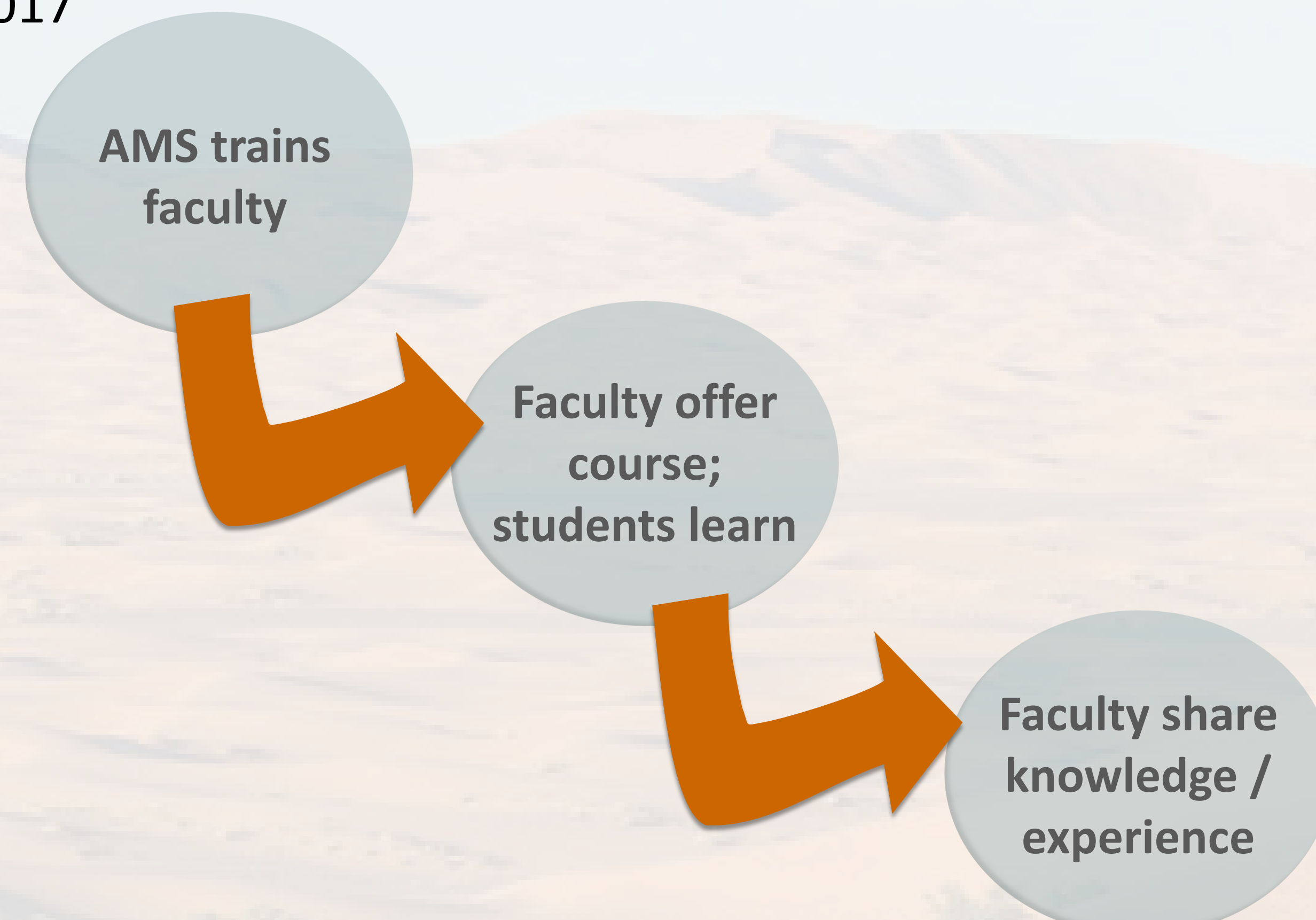
Since 2001, the American Meteorological Society (AMS) has initiated course implementation at minority-serving institutions (MSIs) through NSF-supported Geoscience Diversity/National Dissemination Projects. Most recently, AMS received funding to introduce and enhance geoscience and/or sustainability-focused course components at MSIs through the AMS Climate Studies Diversity Project. Success with this Project led to collaborations with other institutions/organizations, allowing AMS to bring geoscience course work to more students, strengthening the pathway towards advanced geoscience study and careers.



Second Nature

AMS CLIMATE STUDIES DIVERSITY PROJECT

- NSF-funded for 5 years (2011-2016)
- Introduced/enhanced geoscience and/or sustainability focused course components at MSIs that are signatories to the American College & University Presidents' Climate Commitment (ACUPCC) and/or members of the Louis Stokes Alliances for Minority Participation (LSAMP)
- Partnered with Second Nature to recruit signatories
- Introduced AMS Climate Studies to 101 faculty representing 90 MSIs
- Via a NSF no-cost extension, a 5th course implementation workshop will be held in May 2017



AMS Weather and Ocean Studies Diversity Projects (2001-2008) reached 220 MSIs and nearly 100,000 students.

MSI-REACH

Reconstructing Earth's Climate History



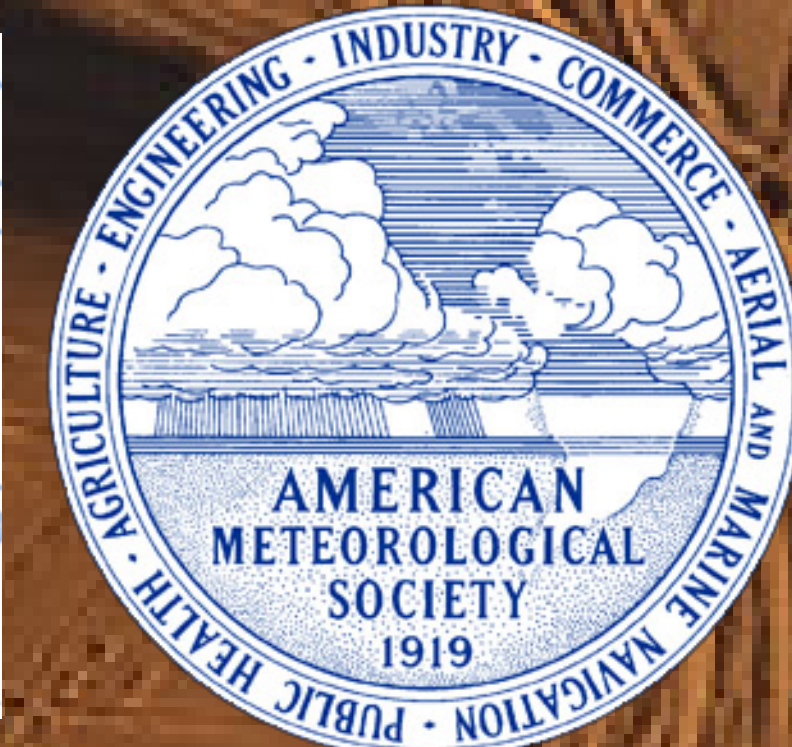
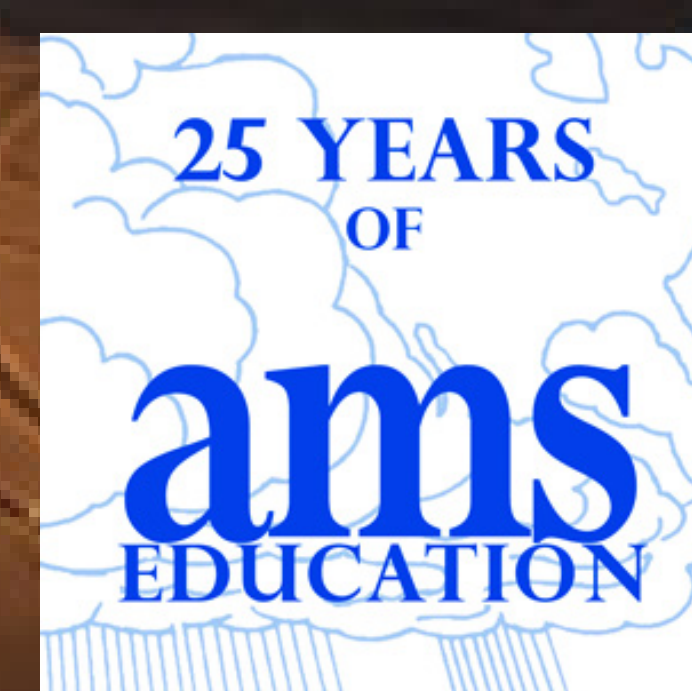
- NSF-funded for 3 years (2015-2018)
- Collaboration with Consortium for Ocean Leadership and 7 other institutions/organizations
- Provides substantive professional development for MSI faculty and serves to enhance research-type experiences for students at participating institutions
- Focuses on paleoclimate data gained through ocean sediment cores

SCHOOL OF ICE

- Lockheed Martin-funded
- Partnered with the U.S. Ice Drilling Program Office (IDPO) at Dartmouth College
- Focuses on paleoclimate study through examination of the ice core record



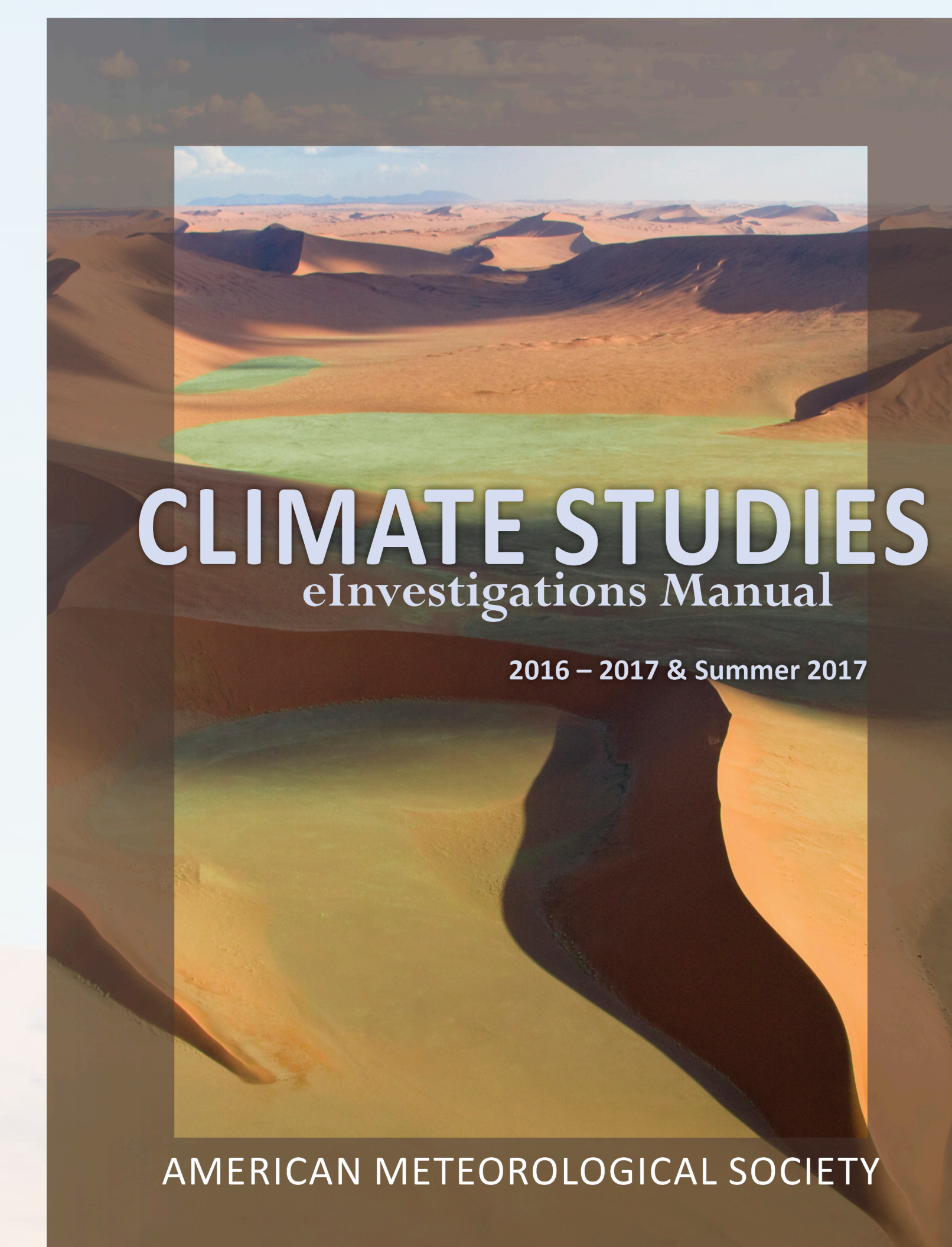
LOCKHEED MARTIN



American Meteorological Society
Education Program
amsedu@ametsoc.org
ametsoc.org/EducationProgram

Like AMS Education on Facebook
@AMSEducation

The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of the National Oceanic and Atmospheric Administration (NOAA), the U.S. Department of Commerce, or the National Science Foundation (NSF).



AMS CLIMATE STUDIES COURSE MATERIALS

- Course materials include: (e)textbook, (e)Investigations Manual, RealTime Portal, faculty website, and faculty resources
 - Textbook: covers the fundamental science
 - Investigations Manual (IM): demonstrates textbook concepts using real-world data
 - RealTime Portal: offers weekly news and activities with data for contextual learning; scholarship and career information for students
 - Faculty website: provides a secure location for answer keys that integrate with course management systems
 - Faculty resource materials: includes PowerPoint presentations for each chapter, textbook image files, test bank questions and answers, and a faculty manual with learning objectives and a guide to offering the course
- Textbook and IM offered in new webBook format
- Draws heavily from recent IPCC and National Climate Assessment reports
- Can be taught in traditional lecture/lab setting, completely online, or anywhere in between

