

LANDSAT/LDCM Education Highlights 2008

LDCM

Our strategy: Work with partners to integrate Landsat and other NASA content in education at regional and national scales.

Projects in 2008

Integrated Geospatial Education and Technology Training

40 community college faculty from across U.S. trained in land remote sensing data acquisition for workforce applications, 19 "Learning Units" developed, 20 more to come; participants do outreach at local and national conferences. Funded by National Science Foundation. Partners include US Geological Survey, National Council for Geographic Education, and ESRI. Jeannie Allen Co-I.

Landsat Image Mosaic of Antarctica

Assisted with development of educational proposal funded by NASA HQ. Assisted in story line development for LIMA.NASA.GOV website arranged for formative evaluation with informal educators focus group

NASA New Investigator Grant: Characterizing Vegetation Dynamics in Western National Parks

PI Robert Kennedy, Co-I Anita Davis

Science goal: develop satellite-based maps of changes in vegetation dynamics over time, and test the extent to which spatial and temporal patterns of change can be used to infer the relative importance of human management and climate change on those vegetative dynamics. LDCM EPO lead wrote the education plan and is facilitating a team of National Park rangers to create accompanying educational products. This proposal was the only one rated "excellent" in the area of education.

NASA-National Park Service Partnership: Professional Development for NPS Interpreters January 2009

Developing and Conducting a week-long workshop for approximately 30 National Park rangers at GSFC to incorporate NASA Earth and Space science into informal and formal educational efforts Using best practices from previous NASA-NPS workshops in which participants created educational products that reached millions of Park visitors.

EPA Climate Change Toolkit for Educators

- Interagency working group NASA, NOAA, USFWS, USFS, BLM, NPS, EPA
- Redesign and augmentation of existing EPA toolkit; focuses on climate change effects on wildlife and wild lands
- Based upon case studies, one for each of 11 geographical areas of US, will include science content from each of the participating agencies
- Web Site, DVD and hard copy kit will be created.
- Over 15,000 copies to be distributed to educators nationally

Upcoming Teacher Workshops

Earth Then, Earth Now: Our Changing Climate July 23-24

Presenting classroom ready activities for over 75 teachers as part of a workshop sponsored by Sally Ride Science, NASA and NOAA.

Pennsylvania Governor's Institute Workshop on Environmental Science July 28, presenting to over 100 teachers, together with Landsat scientist Eric Brown de Colstoun and AESP Peggy Maher (education specialist for PA). Workshop lead is Patricia Vathis, Environment and Ecology Curriculum Advisor and Executive Director of the Governor's Council on the Environment for PA

Selected 2008 Outreach Efforts

Library of Congress Partnership

Series of NASA science presentations for public audiences arranged and promoted by Landsat EPO.

GSFC Day in Annapolis. In collaboration with GSFC Office of Government and Community Relations, arranged for science presenters, staff, and a table of resources for this event. Coordinated and edited production of a handout "Landsat and Climate Change."

Congressional Earth Science Day Provided materials used in Annapolis event plus additional handouts on LDCM for congressional staffers visiting Goddard. Assisted in development of agenda.

Folklife Festival June-July 2008

Landsat featured in children's activity booklet and provided strong presence in Earth Science area of the event.

News Briefs 39 News Briefs and 1 Feature Story were added to the NASA Landsat Program website since January 2008. Laura Rocchio writer and webmaster.

Lithographs Landsat & Climate Change, Drygalski Ice tongue and Bear Glacier Lithographs written, designed and distributed

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