CERES Education and Outreach Update

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The S’COOL - MY NASA DATA Team:
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CERES Science Team Meeting
• Involve students in real science.
• Enable K-12 teachers and students, as well as citizen scientists, to explore the large volumes of data that NASA collects about the Earth from space.

  Students use scientific inquiry and math skills as they access and display microsets of the Earth System.

**MY NASA DATA Provides:**

- Lessons
- Projects/Ideas
- Data Visualization
- Workshops/Training
- Partnership with Educators

- Educational Resources
- A Climate Education Portal
- Cross-mission EPO tool
- Access to Scientists
- A True Scientific Experience
- CALIPSO, SSE, TRMM, GPCP, AIRS
- New CALIPSO, AMSR-E, MISR Data
- New Depth/Animations Functions
- 60 new parameters added (+40% FY11)
Lesson Content: Current vs. Last Period
Visits

Mobile Traffic: 2,229
All Visits: 45,897

1. US
2. India
3. Canada
4. UK
5. Australia
• Education and Public Outreach arm of CERES
• Backbone of Terra/Aqua formal education effort
• A simple way to involve K-12 students in authentic science
• A source of validation data for the CERES cloud retrievals

http://scool.larc.nasa.gov
November December 2011:  
Colegio San Jose Hermanas Franciscanas  
-Bogota, Colombia

January 2012:  
Trinity Lutheran School  
-Newport News, VA

February 2012:  
Sofia Martinez,  
-GSA Austin, TX

March 2012:  
David Preizal  
-Marseille, France

April 2012:  
Carlos Alberto Caycedo Vega  
-Puerto Lleras, Meta, Colombia

The winning banner designs are currently being featured on the S’COOL website.  
(one per month)
• > 106,000 observations from 60 countries and all 50 states
• 76% of S’COOL participants are from USA, 49% of our collected observations are from the US
• > 3,530 registered participants from 83 countries

Map as of Sept. 2011
States “Top Five”

- PA 12%
- VA 4%
- CA 3%
- PR 2%
- NH 2%

Countries “Top Five”

- US 49%
- Colombia 23%
- Argentina 5%
- France 5%
- Taiwan 4%

States “Bottom Five”

- North Dakota 14
- DC 13
- Virgin Islands 9
- Guam 6
- Northern Marianas 0

Impact Measures

~30 requests for S’COOL materials since Nov. 2011 (average)

Bottom five no change
Database of observations - as of April 29, 2012

- > 59,600 satellite correspondences (896 match both)
  For 56% of ground observations
- > 3,515 registered participants
  36% submitted data
- 83 countries
  - data from 60 countries (72%)
NSTA Regional Conference, Seattle: Ambassador-Denise Thompson (teacher from WA) presented S'COOL

Integrating S’COOL into STEM Workshops (through NASA Explorer Schools and Aerospace Educator Services Program): Ambassador- Les Gold (FL) Ambassador- Rudo Kashiri (NASA LaRC)

MND/SCOOL Staff participated at:
• AGU 2011/AGU GIFTS Teachers Workshop
• NSTA National Conference 2012
• AMS National Conference 2012
• Virginia Association of Science Teachers Meeting
• NSTA Regional Conference, New Orleans
• J-Lab Teacher Development

Upcoming:
• Astronomical Society of the Pacific
• AGU 2012
• Public Participation in Scientific Research
• NASA Explorer Schools Workshop
• GLOBE Workshop
Blog Highlighting the NASA CERES S’COOL Project, the MY NASA DATA Project, and the Science Directorate Outreach Efforts.
National Aeronautics and Space Administration
S’COOL Visits, Day Of Education

• Hunter B. Andrews PreK-8 School (Hampton)
• R.O Nelson Elementary (Newport News)
• B.C. Charles Elementary School (Newport News)
• Warwick Christian River School (Newport News)
• Fairfield Elementary (Virginia Beach)
• Turn of the River Middle School, Skype (Stamford, CT)

Other Events:
• Fairfield Elementary SOL Carnival (Virginia Beach)
• Provided material for JLab Teacher Professional Dev. Day
• Cape Henry Collegiate School, Science Fair/Night (Virginia Beach)

Thanks to all who participated or presented S’COOL or MND!
Opening celebration for new nature center wing: April 20-21, 2012

70,000 visitors through the museum with 40,000 through the new wing
• The web is going **mobile**.
• **HTML5??**
• Let’s make **web apps/4G**?
• **CITRUS** – Cloud Id Tool for Students
  – Dichotomous Key
  – Cloud pic to map
  – Weather
  – Chart
  – METAR Integration
  – Picture Analysis?
• Make **S’COOL Rover** observations!
• **Present S’COOL/MND** – scripted materials available
• **Translation** Services needed!
• **Serve as resource** for scientific content questions sent in by participants
• **Connect with observers** in every state and >83 countries
• **Contact** any one of the team members for posting to the blog or other information
  – scool@lists.nasa.gov or mynasadata@lists.nasa.gov
• **Help wanted:** Looking for a science teacher! Contact Lin

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