



Outreach in a Changing Budget Climate: More or Less, Doing More with Less

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Jet Propulsion Laboratory, California Institute of Technology OSTST 9 October 2013 Boulder, Colorado







- 2013: What was cold, what was hot; What was in, what was not?
- 2 new missions: Jason-3 and SWOT
- What's the Future for EPO?



Girl Scouts Earth Science Patch Events



• Nearly 200 girls have participated in 3 events

• Girls rotate through 4 activity stations (2 are ocean related)

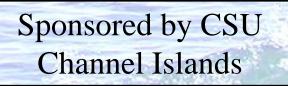
• The El Niño Skit is always a favorite

NASA JPL EARTH SCIENCE

GSGLA



Jason and other JPL Missions at Ventura County STEM Expo







First time for JPL Earth Science Participation



JPL



Classroom Visits





Animo Leadership Academy, Inglewood



Madera Elementary School, Simi Valley



Engineering Workshop for Women and Minority Engineering Students

- Hosted jointly by GRACE FO and Jason at JPL
- Focus on engineering & technology (not science)
- USC and UC Riverside participated
- 33 undergraduate students
- 12 JPL engineers (including 2 from Jason)
- 1st part of workshop was a panel discussion with 6 engineers
- 2nd part of workshop, engineers were grouped by discipline
- In a "Speed Dating" format, 2-4 engineers per discipline rotated through 5 tables of students
- Students free to ask any questions they wanted
- Event so successful, we'll be planning a second one!



Engineering Workshop for Women and Minority Engineering Students

JPL

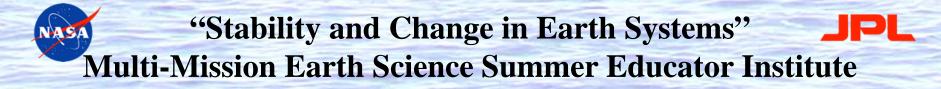




Engineering Workshop for Women and Minority Engineering Students



JPL



- 15-19 July 2013 at JPL
- 35 Teachers (4-6th grade) from 5 Counties in So Cal
- 3 Big Questions:
 - "How Does Water Move in the Earth System?"
 - "Where is Water Stored in the Earth System?"
 - "How do Heat, CO2, and Salt Move between and Impact Earth's Major Reservoirs?"
- 7 Satellite and 1 Airborne Mission are Highlighted
 - Jason-1 and OSTM/Jason-2
 - Aquarius
 - GRACE and GRACE FO
 - OCO-2 (Orbiting Carbon Observatory-2)
 - SMAP (Soil Moisture Active Passive)
 - AirMOSS (Airborne Microwave Observatory of Subcanopy and Subsurface)

"Stability and Change in Earth Systems" JPL Multi-Mission Earth Science Summer Educator Institute at JPL

A Workshop Goal

EXPLAIN: Ocean Circulation

Jason Science

Josh K. Willis joshua.k.willis@jpl.nasa.gov Jet Propulsion Laboratory



"Stability and Change in Earth Systems" JPL Multi-Mission Earth Science Summer Educator Institute



"Stability and Change in Earth Systems"

Lab-wide Celebration of Jason-2 Fifth Anniversary



Seasat - June 26, 1978

"Where it all Began"

Celebrating a 35-year Legacy of Spaceborne Earth Remote Sensing

OSTM/Jason-2 - June 20, 2008

"An Heir to the Legacy"

Congratulations on your 5th Anniversary!



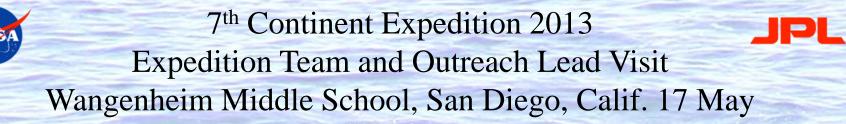


U.S. Participation Argonautica 2013 7th Continent Expedition





2012 Expedition postponed at first by derelict fishing gear, once begun, the French expedition to sail to the "Great Pacific Garbage Patch" had to terminate prematurely. Captain Deixonne rescheduled the voyage for May 2013.





7th Continent Expedition 2013 Expedition Team and Outreach Lead Visit Wangenheim Middle School, San Diego, Calif. 17 May







7th Continent Expedition 2013 Jornal du Bord/Log Book



EXPÉDITION 7ÈME CONTINENT



04/06/13 - 06/06/13: JOURNAL DE BORD

Mardi 04 juin 2013 Cela fait maintenant deux jours que nous naviguons sur un océan qui porte bien son nom " Le Pacifique " : il a revêtu un bleu profond à...

04/06/13 - 06/06/13: LOGBOOK

Tuesday 4th June, 2013 For the past two days we have been sailing on an ocean that warrants its name – Pacific. Its dark blue depths are vertiginous. On deck, the crew...

03/06/13: JOURNAL DE BORD

Vendredi 31 Mai et samedi 1 juin 2013 Nous sommes sur le chemin de retour, nous traversons une mer agitée. L'équipage va bien mais la navigation reste inconfortable... Nous allons donc faire...



LES BOBIS, COMMENT ÇA MARCHE ? (FR-EN)

Alexandra ter Halle, Emile Perez Laboratoire de

03/06/13: LOGBOOK

Friday 31th May and Saturday 1st June We're on our way back, the sea is very rough. .The crew is fine but sailing is difficult... We're going to sit tight until Monday...

Lire lik stalle

30/05/13: JOURNAL DE BORD



october 2013 - A Richardson

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NASA Memo: Suspend All Education and Public Outreach (Update)

Posted by Marc Boucher - Source: SpaceRef Posted March 22, 2013 8:05 PM Discourse & Comments



"Effective immediately, all education and public outreach activities should be suspended, pending further review. In terms of scope, this includes all public engagement and outreach events, programs, activities, and products developed and implemented by Headquarters, Mission Directorates, and Centers across the Agency, including all education and public outreach efforts conducted by programs and projects."







"Bringing Scientists, Students, and Communities together to Promote Global Climate Literacy"

SAVE THE DATE!

April 11, 2014 Pasadena Convention Center









- 2014 has been dubbed "The Year of Earth"
- There are 7 NASA Earth science launches scheduled between January 2014 and June 2015
- NASA and Center (JPL, et al) Offices of Communication, are involved in planning a broad campaign to publicize these upcoming Earth mission launches.
- "Our planet is changing; We're on it."
- Focus on science and applications; What's the benefit to you
- Jason-3 is included with special note that it continues the 20+ year record of ocean surface topography measurements.





- Across-the-board budget reductions affect all of us
- No matter the budget, we are still mandated to share the NASA story
- Outreach activities and events are becoming larger, more thematic, and less mission specific. Several missions benefit from a single event.
- Internal team work across missions, and external partnerships even more important
- We can do it: OST outreach team brings experience, creativity, and a history of playing well with others
- We expect to continue to be a part of improving the public's knowledge of satellite oceanography, global sea level rise, ocean circulation, and the ocean's role in climate



Thank You for Listening!

Thanks also to our partners:

CNES, NOAA, and EUMETSAT

JP