



Education and Public Outreach Science and Exploration Directorate (600)



EPO: A Code 600 Perspective

- Scientists want to convey their discoveries to the public (content)
- Some scientists want to become directly involved in EPO
- NASA missions have a requirement to do EPO

Important questions:

- Do you know about NASA Agency-wide EPO goals and priorities?
- Are you familiar with the process of getting an EPO plan approved by NASA HQ?
- Is the proper level of funding being assigned to EPO?
- Are you thinking about the best education themes for your mission?
- Are you also using existing NASA EPO material?
- How are you linking to other NASA mission EPO?
- How are you linking to the NASA SEPOF's?
- How are your results being evaluated and reported?
- How is your program supporting Goddard?
- How are you linking to the Office of Education and the Office of Communication?



EPO Lead Duties

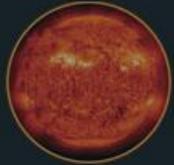
- EPO lead writes plan, gets approval from SMD
- EPO lead responsible for reporting EPO activities, evaluation results to SMD via web tool (OEPM)
- Manage expectations of scientists/mission managers
- EPO lead links to NASA SEPOF's (Science Education and Public Outreach Forums), which can provide many services.
 - Astro (STScI)
 - Solar System (LPI)
 - Earth (IGES)
 - Sun (U. Cal. Berkeley)



NASA Education Grants

- Two Major NASA internal grant programs:
- EPOESS Program (canceled this year)
 - Large programs, higher funding
 - Difficult to get, but many Goddard EPO people have been successful; use us as red teams!
- ROSES EPO Supplementals (canceled for the moment)
 - Available to any ROSES P.I. with current funding
 - 15K individual, 50K combined
 - Relatively easy to get
 - Pilot program this year to write “canned” proposals (won)
 - You can still do cool stuff with a small amount of money





Goddard EPO Division Leads

Astrophysics: Dr. Amber Straughn

Planetary: Lora Bleacher

Earth Science: Dr. Eric Brown de Coulston

Helio: Dr. Alex Young





There's an App for HubbleSite

Vote for Hubble's top images, get wallpaper and more.

Available on the **App Store**

NewsCenter ▶

Latest news
[Hubble Shows New Image of Spiral Galaxy NGC 2841](#)



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HUBBLE FANS SPEAK OUT

Leave a message and become part of Hubble's history.

Type your message below:

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Message Snapshots

- I am absolutely captivated with how humans can connect to space. The H ...
- Hubble your the BEST, thank YOU
- Since I was a little girl outer space fascinated me .One day I hope we ...

Gallery ▶

Spectacular pictures of stars, galaxies, nebulae and more. Catch the best of Hubble's extensive portfolio.

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Hubble's scientific achievements

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- [Dark energy](#)
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The Telescope ▶

How it operates and what it can do

- [Hubble Essentials](#)
- [Servicing Missions](#)
- [Nuts and Bolts](#)

Explore Astronomy ▶

The cosmos is rife with wonders. Explore its mysteries.

- [Black Holes](#)
- [Cosmic Collision](#)
- [Hubble's Universe](#)

Webb Telescope ▶

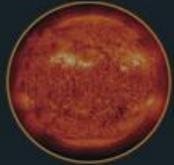
- [Behind the Webb](#) (video podcast)
- [Technology at the Extremes](#)



The Webb Space Telescope, Hubble's successor, will see in infrared, the light emitted by the farthest objects we can detect. Learn about Webb, its technology, and the science it will reveal.

EDUCATORS

Get the latest astronomy tools for your classroom. Visit our sister-site, [Amazing Space](#).



Explore ASTRONOMY

The universe holds many mysteries. Explore some of the marvels that lie within our cosmic neighborhood and beyond.

- ▼ EXPLORE ASTRONOMY
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- SKYWATCH PODCAST
- BLACK HOLES
- PIERCING THE SKY
- WAY OUT! QUIZ
- COSMIC COLLISION
- TONIGHT'S SKY
- VISIT VIEWSPACE
- GSKY BROWSER
- HUBBLE IN WWT

HUBBLE'S UNIVERSE UNFILTERED VODCAST >>

video broadcast



HUBBLE'S UNIVERSE unfiltered

A Hubble astrophysicist guides you through the wonders and mysteries of the universe, making sense of the science and bringing clarity to the cosmos.

Show 16: Deep Universe
WATCH NOW
[Flash Video, 183.87 MB]

TONIGHT'S SKY >>

stargazing show

Identify constellations, planets, deep-sky objects and more with our month-by-month guide to the heavens.



TONIGHT'S SKY: March >>
The spring constellations, Gemini and Cancer, rise in the night sky.

Showing Near You >>



ViewSpace Journey to the far reaches of the universe at your local science museum or planetarium. Watch current visions of space and cutting-edge info about celestial discoveries.
[Find a location in your area.](#)

SKYWATCH PODCAST >>

weekly audio broadcast



Show 317: HubbleWatch for February 2011
LISTEN NOW
[MP3, 3.55MB]

It's a big sky—someone has to watch it

Join our hosts for an audio broadcast, or podcast, on the astronomy discovery of the moment. Learn about everything from planets to dark energy in SkyWatch, and get a roundup of the latest Hubble news in the bonus broadcast, HubbleWatch.



GSKY BROWSER >>

sky browser

Scan the night sky with Google Earth. Zoom in on spectacular Hubble images and get the facts about the stars, galaxies and nebulae under the telescope's gaze.



Cosmic Classrooms >>



AMAZING SPACE Educators: Visit Amazing Space, our sister site, for fun, interactive ways to explore galaxies, black holes, comets and other fascinating celestial objects.

BLACK HOLES >>

interactive feature

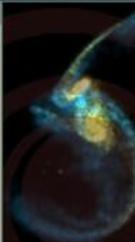
Journey to the strange and forsaken territory of the black hole, and experiment with the nature of this devastating phenomenon.



COSMIC COLLISION >>

multimedia show

It's the ultimate clash of the titans: galaxies smashing together in a bid for cosmic dominance. Our own Milky Way is charging toward impact discover its fate.



HUBBLE IN WWT >>

sky browser

Make your computer a planetarium with WorldWide Telescope. Zoom in on full-resolution Hubble images and get guided tours from experts.



WAY OUT! >>

interactive quiz

Do you know where stars are born, or which planet rotates "backwards?" Put your space smarts to the test and win monthly prizes.



PIERCING THE SKY >>

multimedia show

As telescopes advance, so does our picture of the universe. Follow the leaps in understanding propelled by new technology.






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EVENTS: [NES Video Chat: The Sounds of the Sun, Thursday, July 26, 1 p.m. EDT](#)

Landsat Celebrates 40 Years of Earth Observations



NASA and the Interior Department Monday marked the 40th anniversary of the Landsat program, the world's longest-running Earth-observing satellite program. The first Landsat satellite was launched July 23, 1972, from Vandenberg Air Force Base in California.

- > Top Ten Stories of Landsat's 40 Years
- > Landsat Images as Art



Landsat at 40



Inflatable Shield



Apollo 11



Sun's Corona



Camera to ISS



> More Stories



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HISTORY AND PEOPLE

NASA Images

Image of the Day

nasaimages.org



A Storm of Comets

This artist's conception illustrates a storm of comets around a star near our own, called Eta Corvi. Evidence for this barrage comes from NASA's Spitzer...

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NASA Multimedia



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Curiosity's Seven Minutes of Terror

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Commercializing Space

[> More Interactive Features](#)



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NASA EDGE: Lunabotics 2012

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NASA We're still taking Q's using hashtag #askNASA for today's @NASA_Landsat press event. Ask now & watch on NASA TV: nasa.gov/intv about 1 hour ago · retweet · favorite



NASAGoddard Celebrate the 40th anniversary of #Landsat with these Top 10 Images: nasa.gov/mission_pages/... #NASASocial 2 hours ago · retweet · favorite



NASA Live on NASA TV now: @NASA_Landsat 40th Anniversary press conference: nasa.gov/intv [> More Updates](#) →

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GLOBAL CLIMATE CHANGE

Vital Signs of the Planet

NASA's Eyes on the Earth 3D >>

ARCTIC SEA ICE MINIMUM >	CARBON DIOXIDE >	SEA LEVEL >	GLOBAL TEMPERATURE >	LAND ICE >
↓ 12 % per decade	↑ 392 parts per million	↑ 3.19 mm per year	↑ 1.5 ° F avg. temp. since 1880	↓ 100 (Greenland) billion tons per year

- Key Indicators
- Evidence
- Causes
- Effects
- Uncertainties
- NASA's Role
- Missions
- Key Websites
- INTERACTIVES
- IMAGES AND VIDEO
- CLIMATE KIDS
- FOR EDUCATORS
- NASA CLIMATE DAY
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U.S. Navy bracing for climate change
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EXPLORE

EYES ON THE EARTH 3D
Fly alongside NASA satellites in 3D >

SEA LEVEL VIEWER
Explore sea level from space >

CLIMATE TIME MACHINE
Travel through Earth's recent climate history >

GLOBAL ICE VIEWER
Sentinels of climate change >

COMMUNICATIONS FROM THE FIELD

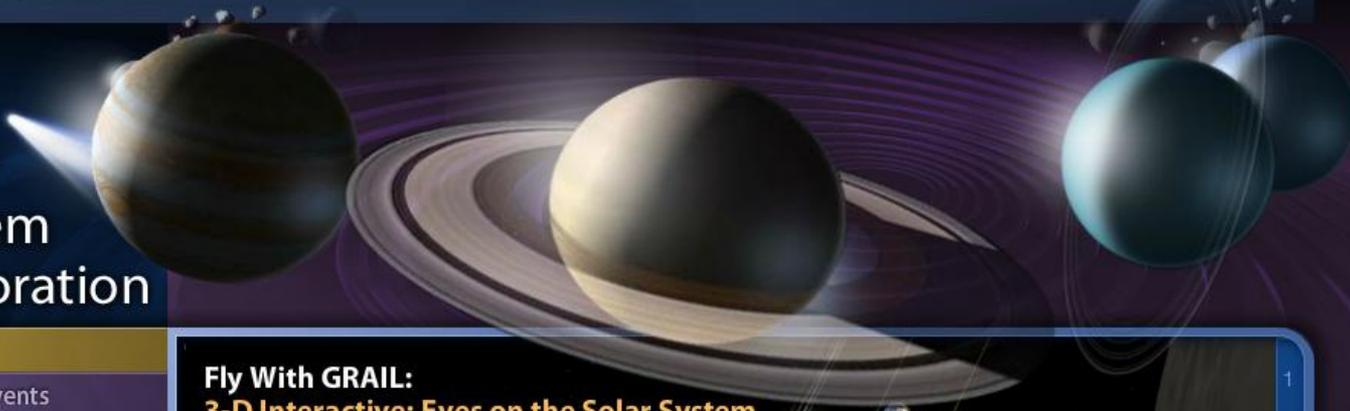
my big fat planet
a blog hosted by Dr. Jenkins

Disneyland, with scientists
We bid adieu to our intern, Athenia Barouni, a sophomore biology major at Glendale Community College. She gives us her perspective of working at NASA's Jet Propulsion Laboratory.





Solar System Exploration



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Fly With GRAIL: 3-D Interactive: Eyes on the Solar System

Ride along with GRAIL at the Moon in a 3-D environment powered by actual mission data. Hop on an asteroid. The cosmos is yours to control. [More >](#)

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- 1 Juno
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- 3 Cassini
- 4 New Horizons
- 5 Ulysses

The Juno spacecraft will, for the first time, see below Jupiter's dense clouds.

Our People

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Daniel Andrews Project Manager



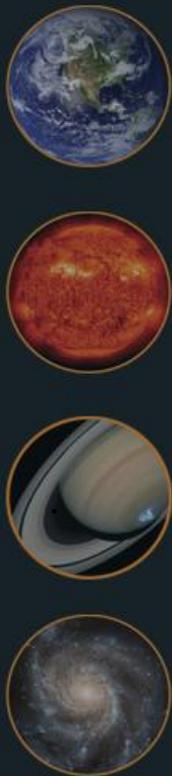
"I remember feeling a deep sense of pride, not just as an American, but more of a pride in what we humans can accomplish with focus and purpose." [More >](#)

Featured

The first spacecraft to orbit Jupiter

50th

**DEEP IMPACT
Legacy Site**



facebook 46



Little Sdo Don't forget to join my Fan page NASA.Little.SDO 19 hours ago

View Photos of Little (310)
View Videos of Little (80)
Send Little a Message
Poke Little

Friends call me Little SDO and I am the first mission to be launched for NASA's Living With a Star (LWS) Program, a program designed to understand the causes of solar variability and its impacts on Earth. Oh yea, Camilla the Rubber Chicken is my BFF!

Information

Networks:
National Aeronautics and Space Administration (NASA)
NASA Goddard Space Flight Center
Stanford Faculty

Relationship Status:
It's Complicated

Hometown:
Goddard, MD

Political Views:
Sun focused

Religious Views:
Sun is the Center of my Universe

Website:
<http://www.facebook.com/NASA.Little.SDO>
<http://sdo.gsfc.nasa.gov>
<http://solar-center.stanford.edu/>
<http://aia.lmsal.com/>
<http://lasp.colorado.edu/eve/>
http://twitter.com/NASA_SDO
<http://www.little-sdo.blogspot.com>
<http://ca.youtube.com/LittleSDOH>
<http://www.youtube.com/user/SDOH>

Mutual Friends
113 friends in common [See All](#)

Wall Info Photos Notes Video NASA / ESA...

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Little Sdo Today's Astronomy Picture of the Day (Credit & Copyright: Paul Aslop)
<http://apod.nasa.gov/apod/ap101006.html>



Wall Photos
Today's Astronomy Picture of the Day (Credity & Copyright: Paul Aslop)
Are those green clouds or auro...
By: NASA Solar Dynamics Observatory (Little SDO)
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Nasa Sun-Earth Day and 12 others like this.

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Andrea Gaida grins^^
19 hours ago · [Like](#) · 1 person



Alan Roche You've gotta love that rubber chicken! :)
17 hours ago · [Like](#) · 1 person



Little Sdo via [NASA Solar Dynamics Observatory \(Little SDO\)](#): NASA Sun-Earth Day's Traditions of the Sun. Today: Yucatan

Traditions of the Sun: Yucatan | Maya
www.traditionsofthesun.org
Traditions of the Sun; Yucatan. An experiential Web site that allows visitors to explore the cities of the ancient Maya in Mexico's Yucatan peninsula

Yesterday at 10:17am · [Comment](#) · [Like](#) · [Share](#) · [Flag](#)

Frederic Delvin and 6 others like this.



Marnell Cromwell That's pretty cool.
16 hours ago · [Like](#)



Michele Vanin I am an Italian citizen who lives near Venice.

Next year is 50 years old, so I would gift me a website ...

www.nasa.gov/goddard



National Aeronautics and Space Administration
Goddard Space Flight Center

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Bringing Science at NASA's Goddard Space Flight Center to you



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About Goddard

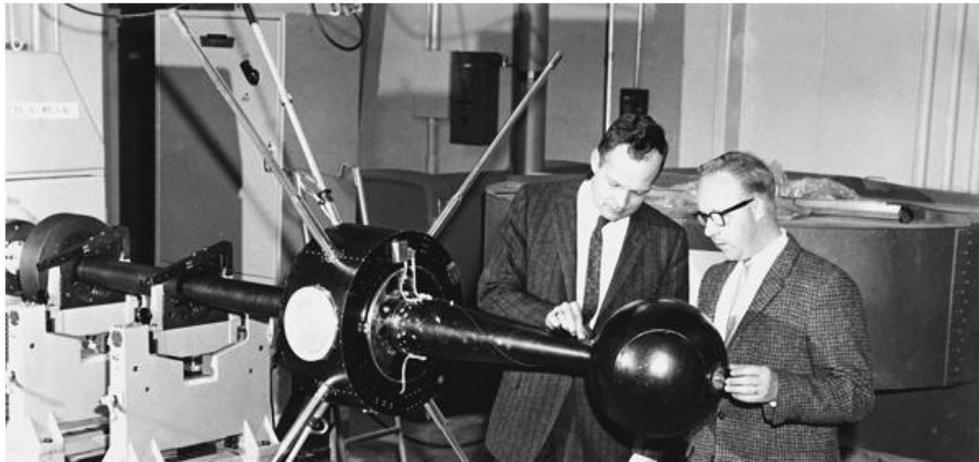
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Goddard's First Homegrown Satellite, Explorer 10, Was Launched 50 Years Ago Today: We Talk to the Father of Explorer 10, James Heppner, About the 'Opportunity Years' at the Dawn of NASA

March 25th, 2011

No comments



Random Posts

- Night owls: meet the duo of amateur astronomers in Japan who discovered the star that delivered a "shocking surprise" to NASA's Fermi Gamma-ray Space Telescope
- "Ask A Scientist" about the STEREO mission's New 360 degree view of our home star on Twitter
- That Was The Week that Was, January 10-14, 2011... A Digest of Goddard People, Science, & Media, PLUS Historical Tidbits and Our Best Stuff in the Blogpodcastotwitterverse
- That Was The Week That Was, December 5-10, 2010... A Digest of Goddard People, Science, & Media, PLUS Historical Tidbits and Our Best Stuff in the Blogpodcastotwitterverse
- After the International Space Station: A



**SPACE WEATHER
MEDIA VIEWER** v3

IMAGES

Showing: **The Sun**

- The Atmospheric Imaging Assembly (AIA 193) Solar Dynamics Observatory (SDO)
- The Atmospheric Imaging Assembly (AIA 304) Solar Dynamics Observatory (SDO)
- The Atmospheric Imaging Assembly (AIA 171) Solar Dynamics Observatory (SDO)
- Composite Image - (AIA 171 and HMI) Solar Dynamics Observatory (SDO)
- Large Angle and Spectrometric Coronagraph (LASCO C2) - SOHO Mission
- Large Angle and Spectrometric Coronagraph (LASCO C3) - SOHO Mission
- Helioseismic and Magnetic Imager (HMI) - SDO Mission
- Helioseismic and Magnetic Imager

ILLUSTRATIONS

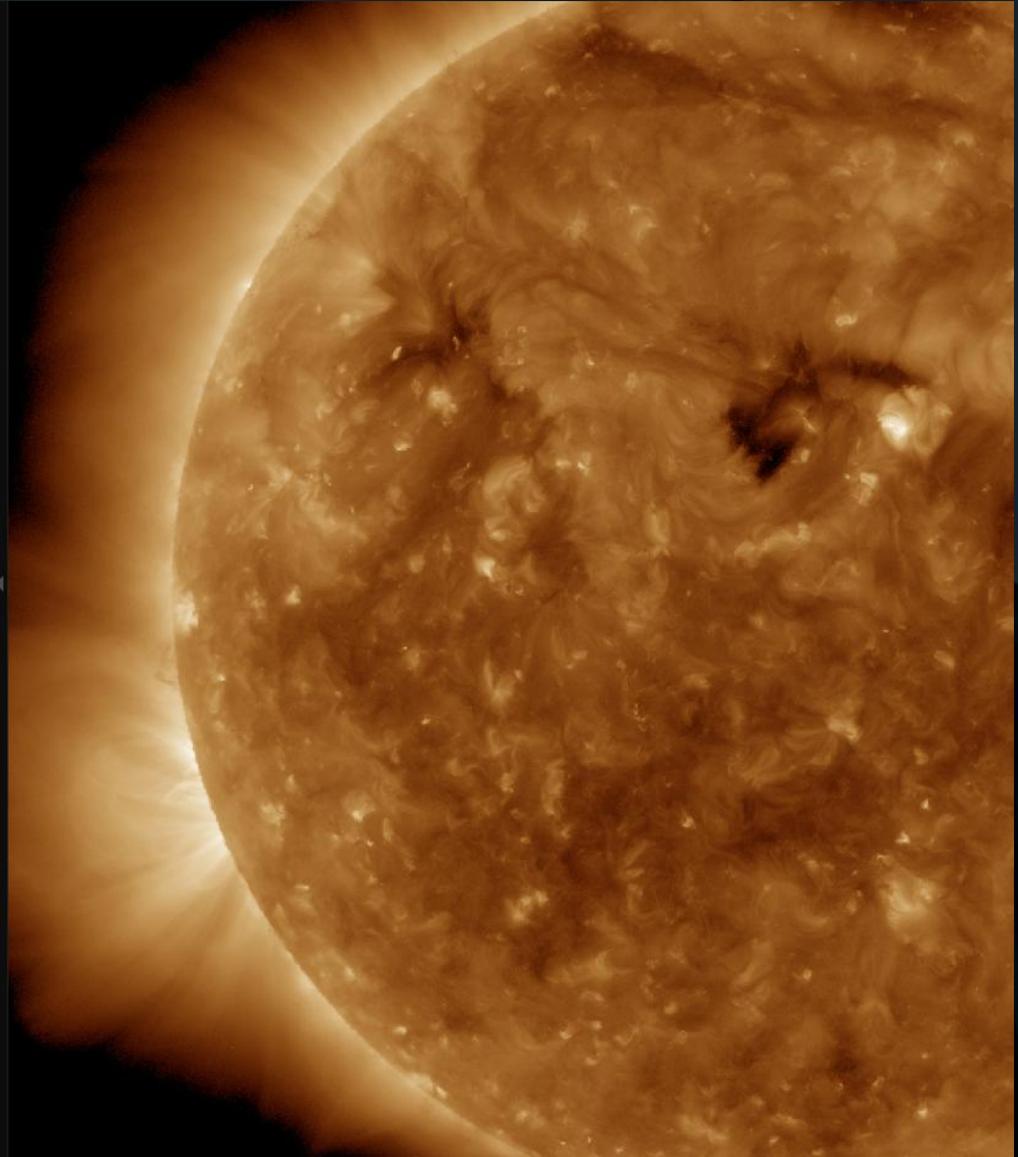
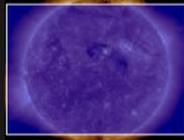
VISUALIZATIONS

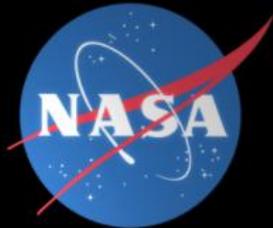
VIDEOS

Scale = 137%



Size of Earth





VISUALIZATION EXPLORER



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94,879 views - 2 months ago

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NASA | Taking on Titan: An Interview
5,092 views - 3 months ago
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3:24

NASA | Human Consumption of NPP
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0:23 / 2:45 360p

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NASA | Taking on Titan: An Interview with Carrie Anderson Like

New lack of centrality of resources: people use search engines or larger sites to find material.



Search

English (US)

e.g.: [Galaxy](#), [M31](#), [NGC3628](#), [Mars](#)

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Navigation controls: up, down, left, right arrows, zoom in (+), zoom out (-), and a vertical slider.

[Infrared](#) | [Microwave](#) | [Historical](#)

M82

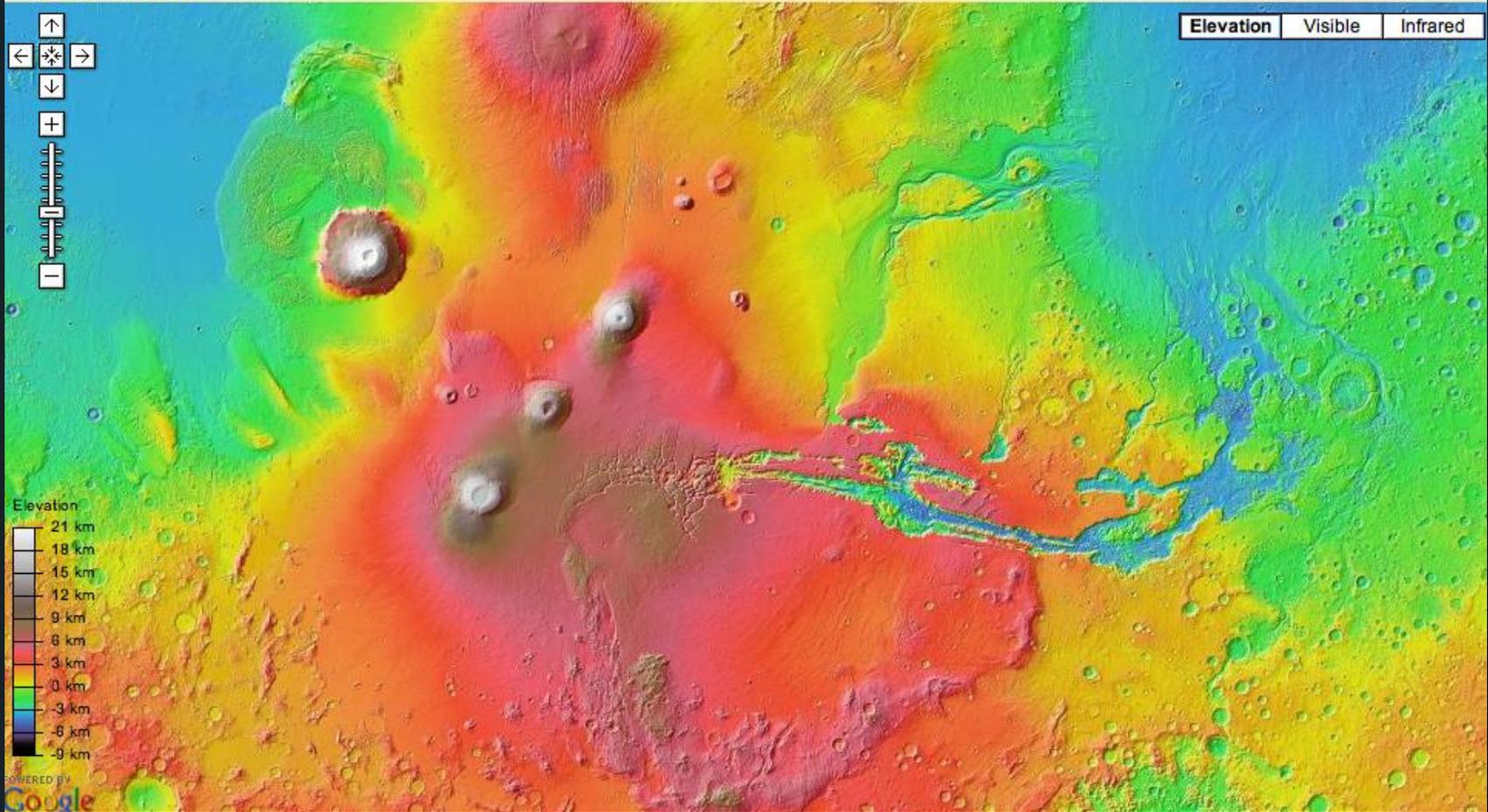
Spitzer Infrared Showcase

This infrared image of M82 was taken by Spitzer's infrared array camera. The dust particles (red) are being blown out into space by the galaxy's hot stars (blue).

Messier 82 is located about 12 million light-years away in the Ursa Major constellation. It is viewed from its side, or edge on, so it appears as a thin cigar-shaped bar. The galaxy is termed a starburst because its core is a fiery hotbed of stellar birth. A larger nearby galaxy, called Messier 81, is gravitationally interacting with Messier 82, prodding it into producing the new stars. [more »](#)

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Spitzer Infrared Showcase
Opacity:





Galaxy Zoo: Hubble

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EN Galaxy Zoo is a ZOO NIVERSE project ...just like MOON ZOO

GALAXY ZOO HUBBLE

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- How To Take Part
- Classify Galaxies
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Pictures

Welcome to Galaxy Zoo, where you can help astronomers explore the Universe

Galaxy Zoo: Hubble uses gorgeous imagery of hundreds of thousands of galaxies drawn from NASA's Hubble Space Telescope archive. To understand how these galaxies, and our own, formed we need your help to classify them according to their shapes — a task at which your brain is

Classifier Log In

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STS-131 Crew Ready for April Flight to International Space Station

Discovery will deliver a multi-purpose logistics module filled with science racks to be transferred to laboratories on the International Space Station. The mission will feature three spacewalks. [Click here for mission schedule and information.](#)

Image: Seated are Commander Alan Poindexter (right) and Pilot James P. Dutton Jr. From the left (standing) are Mission Specialists Rick Mastracchio, Stephanie Wilson, Dorothy Metcalf-Lindenburger, Naoko Yamazaki and Clayton Anderson. Image credit: NASA.

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11.30.09

Spitzer to Unveil Biggest Milky Way View at Adler Planetarium

Our Galaxy - the Milky Way



In a picture of truly galactic proportions, the world's largest image of our Milky Way galaxy, taken by NASA's Spitzer Space Telescope, is on display at the Adler Planetarium in Chicago. On Wednesday, Dec. 2, 2009 at 2 p.m. CST, the scientists who created the image and representatives from NASA will present the image to members of the public.

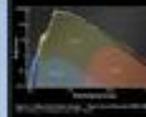
The image spans a mind-boggling area of 120 feet long by 3 feet wide at its sides, bulging to 6 feet at the center of our humongous galaxy. The panorama represents the combined effort of two Spitzer survey teams, who used two of the onboard instruments.

Data from the Spitzer Infrared Array Camera (IRAC) were collected and processed by the Galactic Legacy Infrared Mid-Plane Survey Extraordinaire (GLIMPSE) team, led by Ed Churchwell of the University of Wisconsin, at Madison. The Multiband Imaging Photometer for Spitzer Galactic Plane Survey Legacy (MIPSGAL) team, led by Sean Carey of NASA's Spitzer Science Center at the California Institute of Technology, Pasadena, Calif., announced the completion of the Spitzer

Latest Images



February 9
We are Stardust



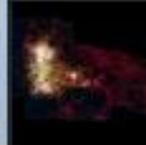
January 5
Epsilon Aurigae
Puzzle Pieces
Snap Into Place



January 5
Little Galaxy
Explored



January 5
Mystery of the
Fading Star



January 5
Dusty, Little
Galaxy



January 5
Little Galaxy with
a Tail



December 23
A Quarter Century
of Infrared
Astronomy



November 23
NASA's Great
Observatory View
of the Crab
Nebula



November 23
Dusty Beginnings
of a Star



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UniView Planetarium Software and DomeCast





2012 TRANSIT OF VENUS

SUN-EARTH DAY: SHADOWS OF THE SUN

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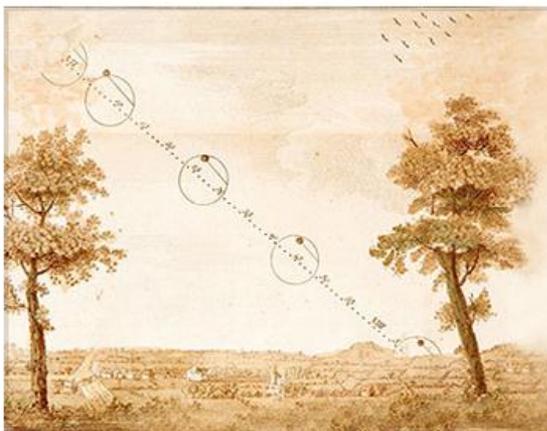
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YouTube

Transit of Venus

- Live Web Cast Information
- Safe Solar Viewing
- Planetary Comparison
- Transit of Venus Videos



Technology Through Time, Issue #73

A Brief History of the Transit of Venus

There have been 53 transits of Venus across the Sun between 2000 B.C and 2004 A.D. History says that Jeromiah Horrocks was the first human to ever witness a transit by Venus in 1631, but could other more ancient people have also seen it too?

[Continue reading...](#)

Pause Previous Next

1 2 3 4

This year's grand celebration is on June 5, 2012, the Transit of Venus! We have teamed up with NASA Edge to bring you an exciting web cast from atop the summit of Mauna Kea, Hawaii.

The Transit of Venus is among the rarest astronomical phenomena and won't happen again until the year 2117. So prepare now, and don't miss out on this extremely special event!

- [Learn More!](#)

NE Live - Transit of Venus [Share](#) [More info](#)



0:00 / 1:00

- [Learn more about the Transit](#)
- [NASA Edge and Sun-Earth Day web cast information](#)

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Space Weather Media Viewer

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LRO

CINDI

RBSP

DAWN

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Voyager

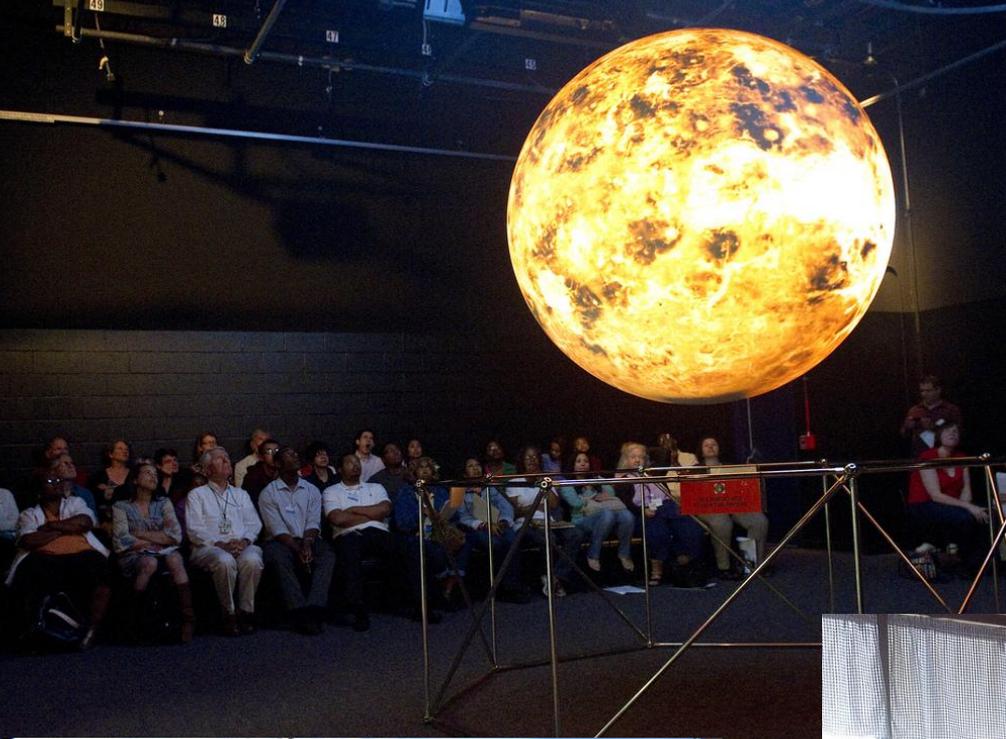


<http://venustransit.nasa.gov>

Partnerships



<http://venustransit.nasa.gov>



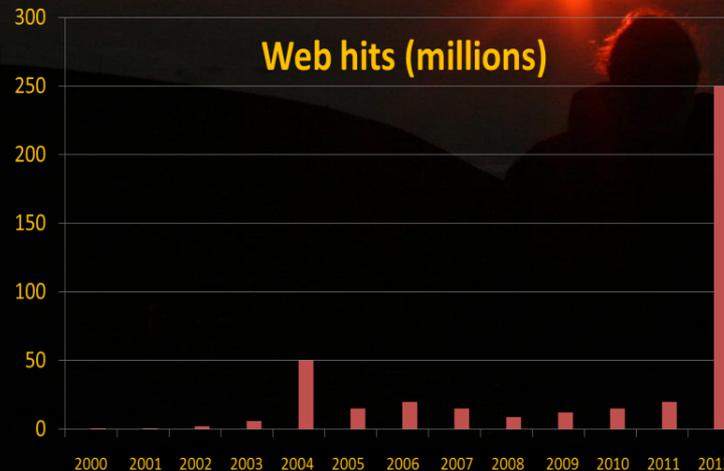
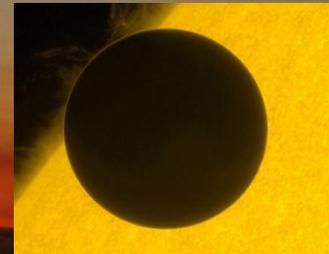
Global Audiences: Over 150 countries participated holding millions of events



<http://venustransit.nasa.gov>

Summary

- **Web Hits: 614 million**
- **Web Streams: 7.7 million**
- **TV Viewership: 7,741,158, Peak :576,743**
- **Countries: 157**
- **Global Events: > 1 million**
- **NASA Centers: 10**
- **Mission Packets: 30,000**
- **Educators: 13,038**
- **Students: 1.5 million**
- **Scientists: 2,823**
- **Museums: 4,328**
- **Am. Astronomers: 10,174**



<http://venustransit.nasa.gov>

Social Media - NASA Portal

Twitter:

@NASA Impressions (Tweets/Retweets seen by)	28,579,769
@NASA Unique Accounts Retweeting Us	20,182
@NASA Inbound Messages (tweets sent to us)	31,475
@NASA Outbound Messages (tweets sent out)	205
@NASA Mentions	7,277
@NASA New Followers	20,066

According to hashtracking.com pulled on June 6 at 3:45am ET for the previous 24 hours

#VenusTransit Tweets (sent out containing hashtag)	16,541,065
#VenusTransit Impressions (Tweets/Retweets seen by)	74,900,101

Facebook:

Total number of direct post impressions on news feed of NASA's posts	2,509,963
Total number of post impressions from shares to other walls/friends news feeds	7,823,757
Total number of page impressions	518,016
Total number of unique fans interacting with page/posts	531,721
Total number of mentions of NASA on Facebook	111,036



<http://venustransit.nasa.gov>



NASA Watch

This is not a NASA Website. You might learn something. It's YOUR space agency. Get involved. Take it to the next level. nasawatch@spaceref.com | Voice +1.703.787.6567 | [RSS Feed](#) | [Twitter](#) | [Advertising](#) | [Archives](#)

NASA Says It Cannot Advertise - and Then Buys Advertisements

By [Keith Cowing](#) on August 25, 2011 2:53 PM [No Comments](#)

[NASA GSFC Solicitation: Know Your Earth Message Displays](#)

"NASA/GSFC has a requirement for messaging displays to be posted in [Chicago](#) during the months of November and December, in support of the Know Your Earth 2.0, Chicago (KYE II) project. These include city wallscape, shopping mall kiosk displays, rail transit posters, and airport dioramas. NASA/GSFC intends to purchase the items from Clear Channel Outdoor pursuant to FAR 13.106, for the acquisition of supplies or services determined to be reasonably available from only one source. The KYE II project is a joint venture between NASA's Earth-Observing Missions and Clear Channel Outdoor. Each NASA Earth-Observing Mission involved has written the KYE project into their Education/Public Outreach Implementation Plans."



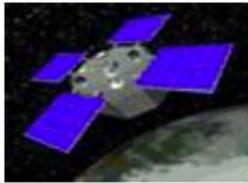
Keith's note: I have lost count how many times people at NASA have told me that they cannot self-promote, advertise, lobby, or otherwise try to use standard marketing tools to inform the public of the things that they do. They always cite dire Congressional prohibitions against such activities. Then they go off and totally violate these prohibitions with advertising procurements such as this one. I am not certain that they actually know what it is they are allowed or not allowed to do and just throw this answer out when they do not want to do something.

[Advertising Allowed or Prohibited?](#), earlier post

[Commercialization of NASA's Earth-Observing Missions](#), earlier post
[Advertising, billboard, Congress, PAO](#)



The twelve participating NASA Earth-Observing Mission are:



ACRIMSAT



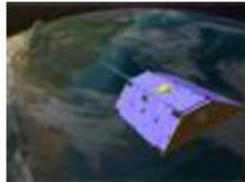
CloudSat



Jason-3



Aqua



GRACE



Landsat



Aura



Jason-1



QuikSCAT



CALIPSO



Jason-2



Terra





Barrington Station



Clybourn Station



Lake Cook Station



LaSalle Station



Medinah Station



Oak Forest Station



Oak Park Station



Ogilvie Station



Round Lake Station



Chicago Area Malls



Century Shopping Centre

Gurnee Mills Mall

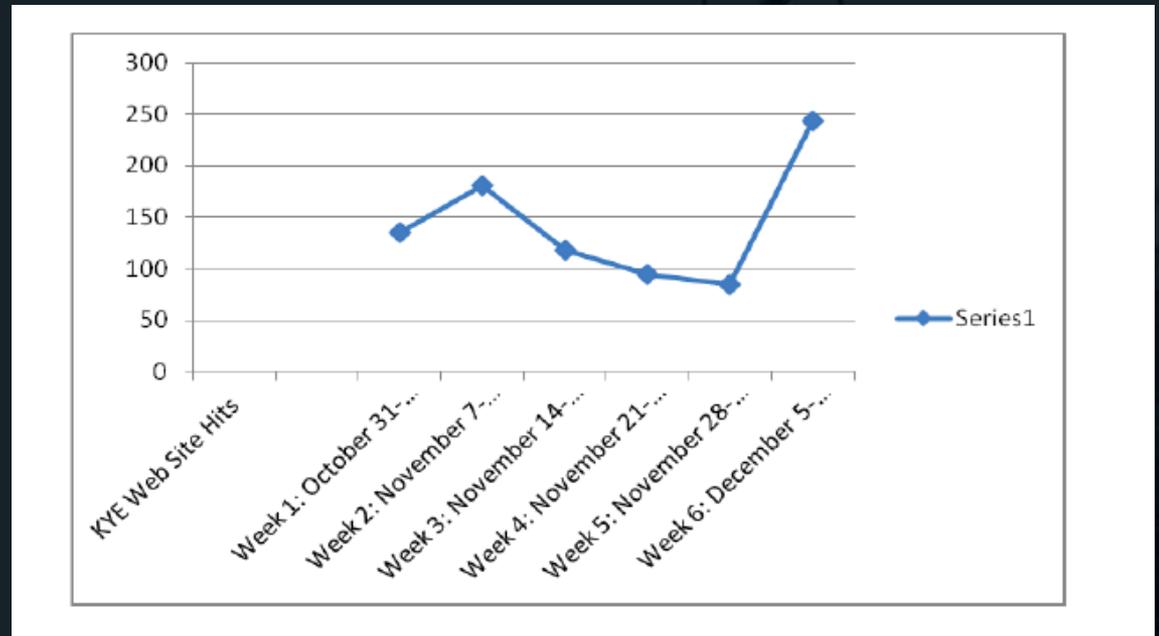


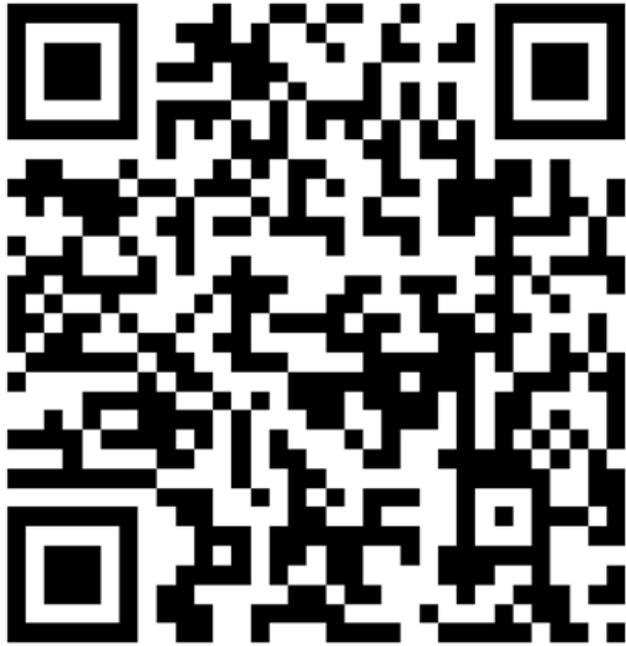
The Promenade at Bolingbrook



Know Your Earth Reported Statistics

- O'Hare Airport location: 17,774,883
- Public transportation locations: 5,513,492
- Malls: 2,288,431
- Downtown Chicago billboard: 1,030,800





NASA Web Site



Facebook Web Site



Climate Cast



NASA Earth to Sky





Where Words Touch the Earth

Students from American Indian Tribal Colleges interview Elders, other students, and community members to provide a Native American perspective on climate change and its effects on their communities.



Funding for Where Words Touch the Earth is provided by the National Aeronautics and Space Administration



Resource	Grade Level	Media Type
 Native Student Filmmakers Focus on Climate Change In this video segment adapted from Haskell Indian Nations University, student filmmakers explain why it is important to them to make a video about climate change.	6-12	  MPEG 4 Video View
 Overstepping Mother Earth's Boundaries Have we overstepped Mother Earth's boundaries? What are the consequences? In this video segment adapted from Haskell Indian Nations University, hear a Native perspective on our relationship with the natural environment.	3-12	  MPEG 4 Video View
 Reconnecting with Your Environment In this media-rich activity designed for teacher professional development, take a nature walk to observe aspects of your local environment, then plan an activity for students that will help them better understand their own surroundings and how they interact the natural world.	6-12	Teacher Activity View
 Salmon Move into Deeper Waters For generations, Native Americans have depended on their observations of nature for their survival. In this video segment adapted from Northwest Indian College, an Elder recalls how fishermen suspected the water was warming after observing salmon retreating to deeper waters.	6-12	  MPEG 4 Video View
 Salmon Population Depleted In this video segment adapted from Northwest Indian College, Lummi Elders explain how a decline in the availability of salmon reflects a threatened environment that must in some way be protected.	6-12	  MPEG 4 Video View
 Sense of Smell Leads Salmon Home This video segment adapted from Northwest Indian College reveals how Native American life and knowledge is connected to natural cycles.	6-12	  MPEG 4 Video View
 Warmer Water Kills Salmon Eggs In this video segment adapted from Northwest Indian College, a Native American Elder explains her observation that a temperature rise of just 3°F is killing salmon eggs.	6-12	  MPEG 4 Video View
 Wetlands In this video segment adapted from Haskell Indian Nations University, learn about the spiritual role and ecological function of the wetlands adjacent to the university's campus.	6-12	  MPEG 4 Video View

Targeted Programs: The Center for Astronomy Education at the University of Arizona

Impact on Teaching: Just wanted to let you know what I did after the the CAE Learning-Centered Teaching Workshop. . . I started reworking my class notes and changing it from passive to active and putting in some of the participatory activities we did in the workshop...they were working together...reasoning things out...drawing models...thinking! They were like scientists! It was great and just as you said it would be!



“The most valuable workshop I ever had..”



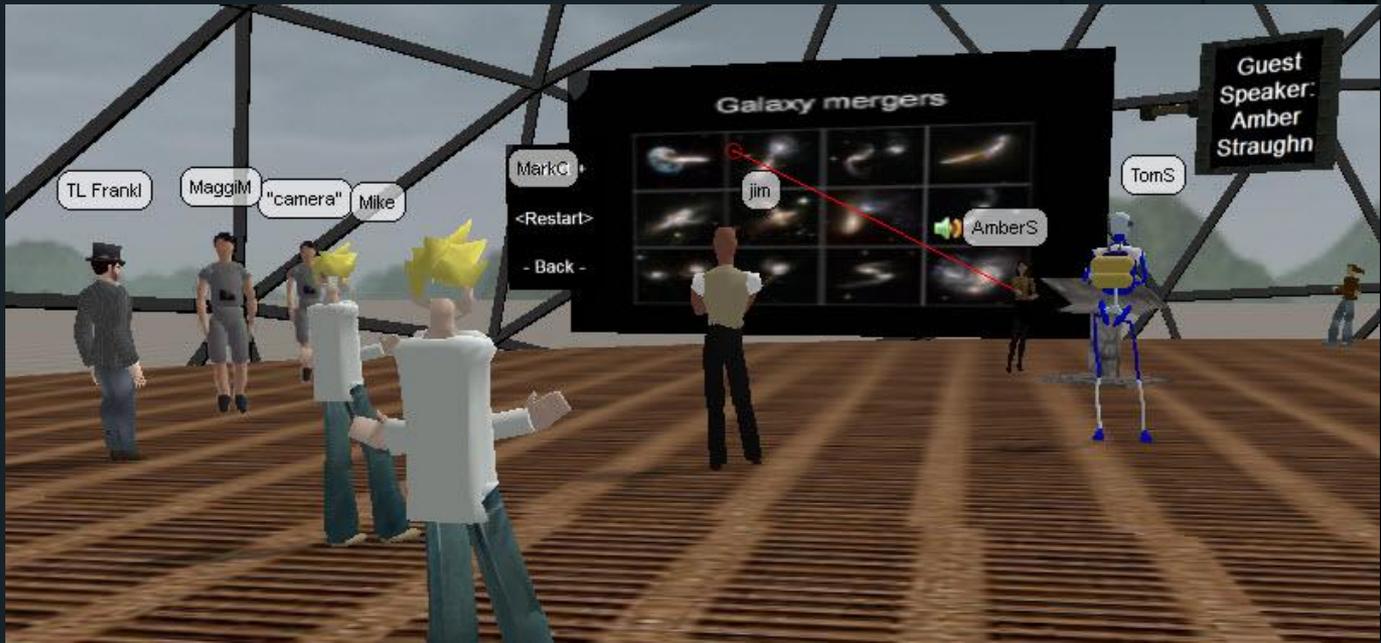
”This should be a part of every AAS meeting.”



“Finally, I now know how to implement these strategies I’ve been hearing about.”




RI REALWORLD-INWORLD
NASA Engineering Design Challenge





Science - A Tour of the Cryosphere 2009

- This channel hasn't got an update yet. by NASAtelevision

Follow 49 Followers 17,996 Total views 01 / 14 / 2009 Joined

Watch on iPhone Featured Show

Live Broadcast started 33 minutes ago embed codes | pop out Chat Social Stream

nasa-television

Africa?

12:09 llamkennedy: That is a great animation. Really makes the point of how this impacts sea levels

12:09 vivwhite: Can we tell if it's also getting hotter on Mars due to those ice caps?

12:09 levishan2244: what is our #1 tool for combating the warming

12:09 drather: How do you measure ice thickness from space?

12:09 llamkennedy: How much will sea-levels be impacted by the melting of those ice-shelves?

12:09 tschwerin: How did Tom get interested in studying the cryosphere?

12:09 NASAtelevision: Thanks for all the great questions everyone!

1:10 pinellascience: Is it possible to correlate changes in ice surface and impacts to global vegetation?

Audience

88 Viewers / Broadcasting Live

Media Stream View All

U.S. Human Space Flight Plans Committee

Recommended Live Shows:

SeluCam Science

Kamil Schelcht Live

NASAtelevision - A Tour of the Cryosphere 2009

TECH SAVVY CURRICULUM

5th grade teachers use technology to enhance classroom experience

5TH GRADERS STAR IN iMOVIES

In Mr. Bill Eaker's technology classes, 5th grade students use iMovie to create commercials, skits and news reports to teach 2nd and 3rd graders about internet safety and the importance of becoming good cyber citizens.

Internet safety is very important for students to learn at a young age. With the availability of anything online, it is crucial to teach our students not only safety, but what it means to be a good cyber citizen. A good cyber citizen follows rules and not engaging in misconduct online. The fifth grade students have adopted a key role in helping teach these concepts to the younger students, while at the same time, learning more about it themselves. This subject becomes very important to the kids since there is a purpose beyond themselves.

Using a program called CMap Tools, students design a "mind map" that focuses on the cyber citizen rules they feel are most important for the younger students to learn. They brainstorm ideas on how to present their information in a video format. Ideas have included newscasts, infomercials, skits, and simple skits.

Each student has written scripts and obtained props, and they are responsible for filming their movies. Students learn the process of editing footage, transitioning, adding music, titles and processing their iMovie into its final format.

Victoria

"So here are some tips. Don't put personal info on the internet.
Don't tell where you are going.
And don't chat with a stranger you don't know."
[cue music]

All

Thanks for watching! See you next time!

SKYPE SESSION WITH NASA SCIENTIST



Mrs. Cathy Faulkner's 5th grade class at Southwest Elementary school communicated via Skype with Dr. Michelle Thaller, the assistant director for Science Communication at NASA's Goddard Space Flight Center.

During the hour Skype session, students learned about the science behind black holes, the speed of light and how to explore career opportunities in astronomy.

"We were very privileged to be able to Skype with Dr. Thaller", says Faulkner. "It was a wonderful opportunity for the students to apply what they had learned in class to careers that they may want to have in the future. Dr. Thaller shared wonderful information and taught them a lot!"

Faulkner says her 5th graders thought the Skype session with a NASA scientist was fun and educational and an experience they will remember for a long time. Dr. Thaller answered several student questions, talked about her favorite planets and discussed the recent solar flare eruptions on the sun.

"I never imagined that we would get to talk to a scientist that works for NASA! It was just amazing!" says 5th grader Breanna Thomas.

Southwest students film a newscast about Internet Safety.



Southwest 5th graders listen intently to a Skype session with Dr. Thaller, a NASA scientist.

"Dr. Thaller is really smart and fun. This was a once in a lifetime chance that I'll never forget", says Jake Winslow, 5th grade.

Classmate Jeremy Ryder says, "Talking with Dr. Thaller was really fun! She told us cool stuff about NASA and projects that are currently working on."



Using technology in the classroom makes it possible for students to actively learn about different careers.

"It was so neat to talk to a NASA scientist because I really like space and I want to be an astronomer someday", says Emma Snell, 5th grade.





Sun-Earth Day Tweetup!

Join us March 19, 2011





Family Science Night



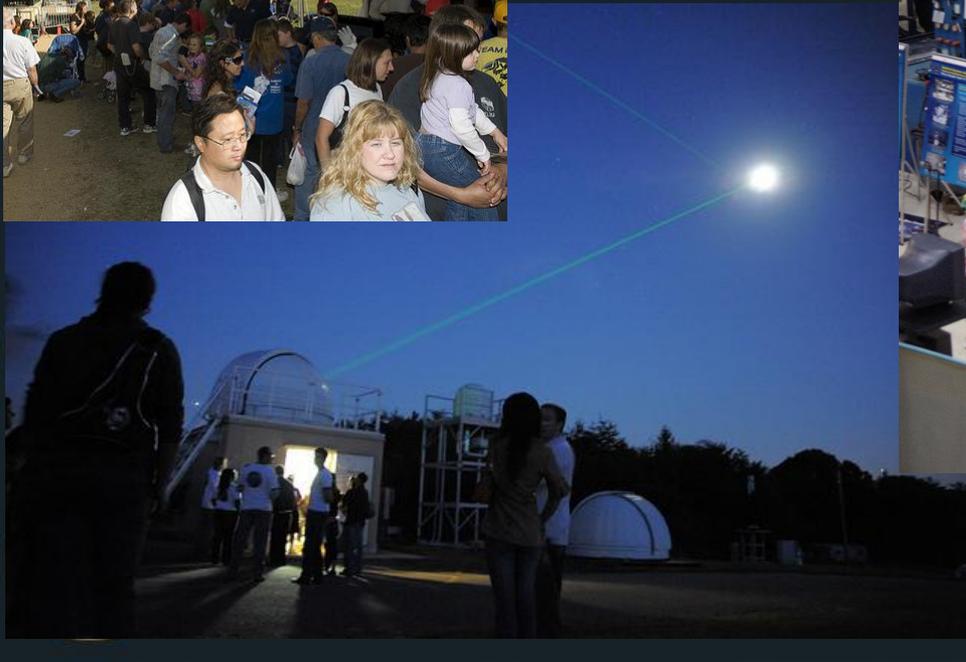


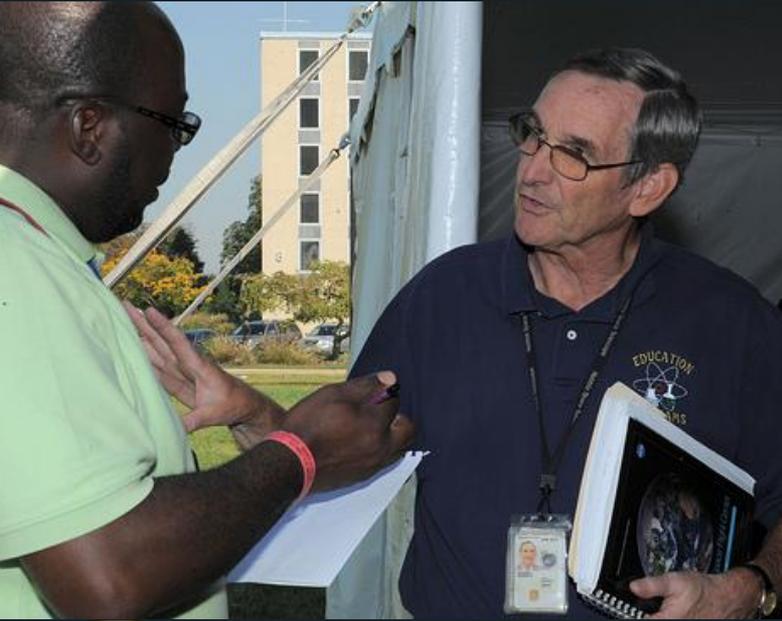
THE SUNDAY EXPERIMENT



...edge technology...
...1990, Hubble has undergone subsequent enhancements...
...and other upgrades in December 1993, February 1997, December 1999, and March 2002.







Too Many Things to Mention!

Large conferences (US Science & Engineering Festival)
NASA-sponsored events (Earth Day, Udvar-Hazy)
Internal events (Code 600 Poster Party, Science Jamboree)
Curriculum guides (Imagine the Universe)
TV support (Discovery, Nat Geo, History Channel)
Project GLOBE
NASA SpaceMath
Challenger Center
Interns, summer research opportunities

And much more

