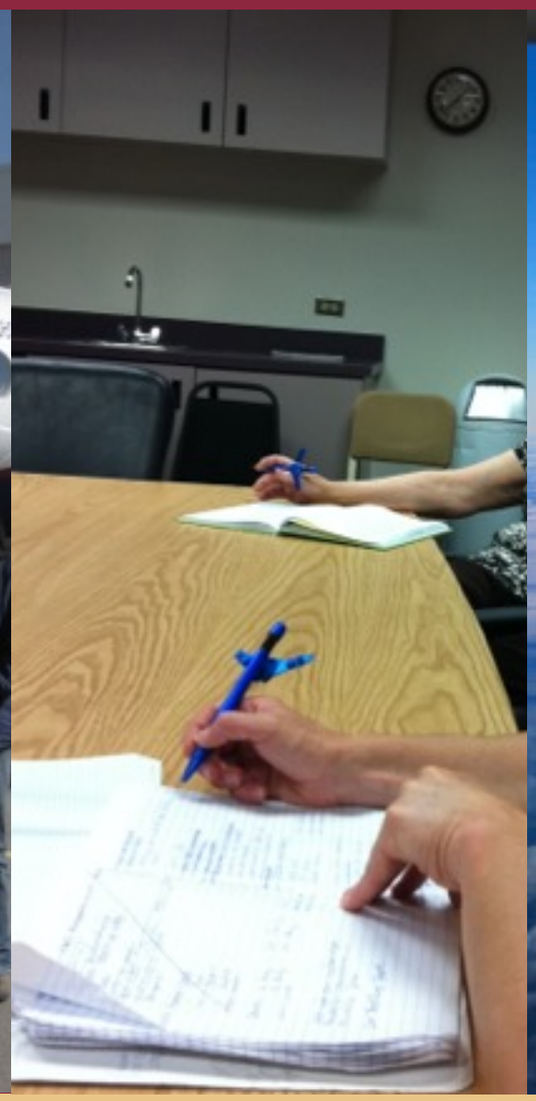
Alison Rockwell
EOL Outreach & Communications
HIPPO Science Meeting

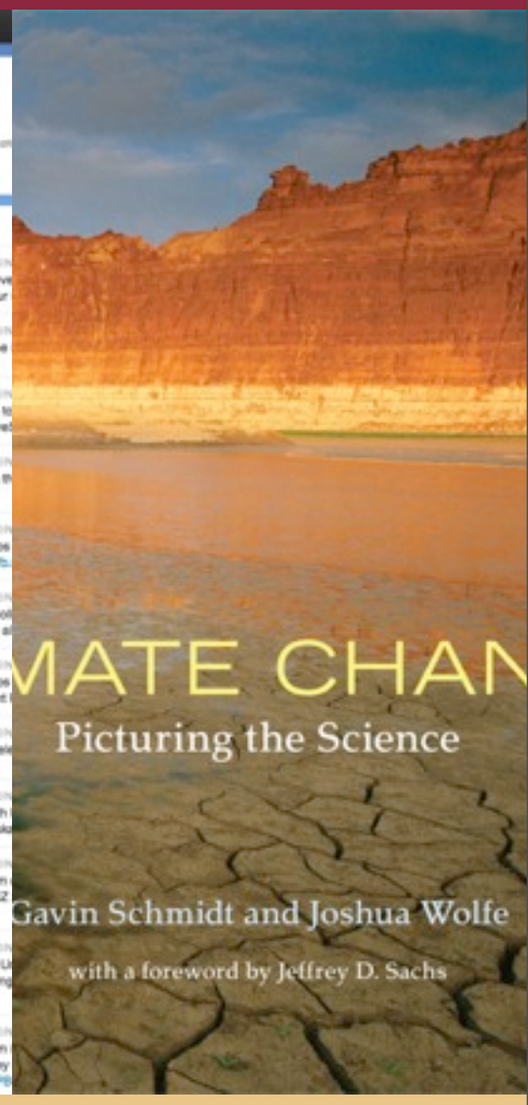
March 12, 2012

HIPPO
Education & Outreach Summary

HIPPO
Education & Outreach Summary

HIPPO
Education & Outreach Summary





AGU **Events** **Print** **2.0** **Extra!**

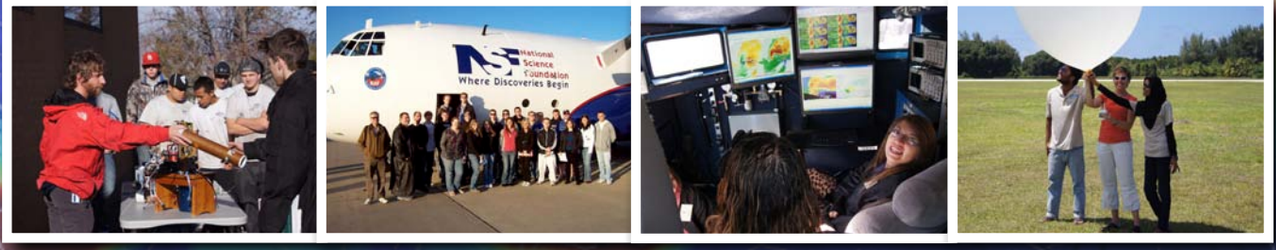

AGU
American Geophysical Union

AGU Geophysical Information for Teachers (GIFT) Workshop

Tuesday, June 19, 2012

Using Scientific Field Campaigns to Learn About Climate Science

Tools for Teaching Climate Science



AGU 2011 :: December 5, 2011

Using Scientific Field Campaigns to Learn About Climate Science

NCAR's Earth Observing Laboratory (EOL) provides a unique look into current atmospheric science related to climate research. Educators and students can explore what it's like to use cutting-edge research instruments during field campaigns to address current questions regarding Earth's changing climate.

How Do We Know?

There is a wealth of information out there about climate change and global warming, and students may be asking:

- *How do we know that the climate is changing?*
- *What will the climate be like in 20 years?*

The answers are complex, but with the help of current research of the atmosphere, scientists have a better understanding of how the different Earth systems work together.

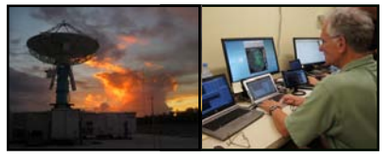
In order to study the climate, researchers (1) look at climate data from such places as tree-rings, ice cores and corals; (2) add that to modern day weather and climate research; (3) compare multiple models to actual findings; (4) integrate this information into climate models that project future weather and climate.

The Earth Observing Laboratory's outreach program provides an in-depth look into current atmospheric science field campaigns that study various aspects of weather and climate.

- Severe Weather
- Climate Processes
- Atmospheric Patterns
- Ocean-Air Interactions
- Air Chemistry

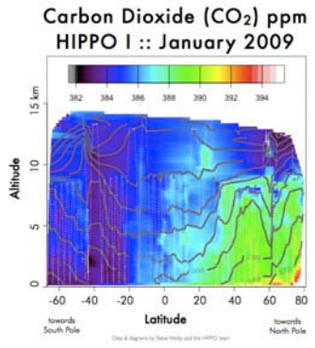
EOL develops and deploys NSF lower atmospheric observing facilities including two research aircraft and several radars, that are used for research projects around the world.

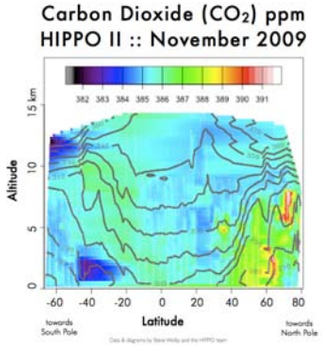
Engaging students into how and why atmospheric science research is conducted through modern and relatable teaching tools is an effective way to teach weather and climate science.



Making the Connection

Following along in real-time with scientists can be exciting and engaging for students. By interacting with scientists in the field, students can make a clear connection to the data that is used in the classroom, creating a much more impactful learning experience.





Using Field Campaigns

Field campaigns run by EOL provide an accessible and scalable way to be involved with atmospheric science research, and can be integrated into a variety of classes:

- Earth Science
- Chemistry
- Physics
- Engineering
- Environmental Studies
- Geography
- Political Science
- Science Ethics
- Literature & Writing

Tools for Teaching Climate Science

AGU 2011 :: December 5, 2011

Using Scientific Field Campaigns to Learn About Climate Science

Several online resources are available to educators that can be freely utilized to develop climate science curricula. Students can learn about and follow field campaigns all over the world; interact with researchers on Facebook; gain a better understanding of climate science and how research is conducted; and use collected data for classroom activities.

Types of Online Resources

- Field Projects Website
- Multi-Media & Video Galleries
- Google Earth Interactive Tools
- Social Media & Web 2.0 Platforms

Why Would Students Be Interested?

Weather and climate affects everyone around the world. From the food that we produce and eat to the air we breathe, the atmosphere impacts us daily. There is still so much to be discovered about Earth's atmosphere, students can be at the frontiers of discovery!

What Can I Do?

Encourage students (everyone, actually!) to follow and explore NCAREOL on our social media platforms. As students are looking for careers that *make a lasting difference to society*, this is a great way to encourage a career in science. After all, science needs more than just scientists.

Contacts:

Alison Rockwell
EOL Education & Outreach Coordinator
rockwell@ucar.edu
303.497.8758

Becca Hatheway
UCAR Educational Designer
hatheway@ucar.edu
303.497.2597

Web 2.0 Resources

www.eol.ucar.edu/field_projects

www.facebook.com/ncareol

www.youtube.com/ncareol

www.twitter.com/ncareol

HIAPER
Pole-to-Pole
Observations

Search Site | Search

Home | HIPPO Project | Field Notes | HIPPO Team | Research Instruments | Itinerary | HIPPO In the News | Data

- About HIPPO
- Educational Resources
- HIPPO Video Gallery
- HIPPO Multimedia Gallery
- HIPPO V Field Catalog
- HIPPO :: Press Release
- Frequently Asked Questions
- Using Field Campaigns

Educati

RETI 2011

Several clima teachers involved with the Research Experience Ir Northern Colorado and NCAR.

The HIPPO p climate science being conducted. Teachers inc

Explore the R

AGU Geop Workshop

Presented by Alison Rockwell, Vidal Salazar, Becca Hatheway, and Sarah Bruemmer

This workshop provided information about how scientists use large scale field campaigns to collect data about the Earth's atmosphere in order to learn more about climate science. The hands-on activities allow teachers and students to analyze climate data sets and gain a better understanding of how climate models work.

Presentation:

- Using Scientific Field Campaigns to Learn About Climate Science
- Presentation Video

Classroom Activities:

- HIPPO Curtain Plots Short Lesson
- Classroom Activity Video

Supplementary Resources:

- Tools for Teaching Climate Science PDF
- Telling a Compelling Tale, Scientifically Speaking
- CO2 HIPPO I Plot
- CO2 HIPPO II Plot
- HIPPO Curtain Plots Short Lesson (Answers)
- Carbon Flow Student Worksheet
- CO2 Concentrations in the Atmosphere Student Worksheet
- PPT presentation - What is a Model?

Share |

ABOUT HIPPO

HIPPO is a landmark study for many reasons, not the least of which is it is the first time scientists have systematically mapped global distribution of carbon dioxide and other greenhouse gases in the atmosphere, covering the full troposphere in all seasons and multiple years.

FOLLOW HIPPO

Become a fan on Facebook

Follow Us on Twitter

Watch Us on YouTube

Receive NSF/NCAR GV flight notifications

FEATURED PUBLICATION

Philosophical Transactions of the Royal Society :: *HIAPER Pole-to-Pole Observations (HIPPO): fine-grained, global-scale measurements of climatically important atmospheric gases and aerosols*

HIPPO DATES

- HIPPO I :: 8 January-30 January, 2009
- HIPPO II :: 31 October-22 November, 2009
- HIPPO III :: 24 March-16 April, 2010
- HIPPO IV :: 14 June-11 July, 2011
- HIPPO V :: 9 August-9 September, 2011

HIAPER
Pole-to-Pole
Observations

Search Site | Search

Home | HIPPO Project | Field Notes | HIPPO Team | Research Instruments | Itinerary | HIPPO In the News | Data

- About HIPPO
- Educational Resources
- HIPPO Video Gallery
- HIPPO Multimedia Gallery
- HIPPO V Field Catalog
- HIPPO :: Press Release
- Frequently Asked Questions
- Using Field Campaigns

Educati

RETI 2011

Several clima teachers involved with the Research Experience Ir Northern Colorado and NCAR.

The HIPPO p climate science being conducted. Teachers inc

Explore the R

AGU Geop Workshop

Presented by Alison Rockwell, Vidal Salazar, Becca Hatheway, and Sarah Bruemmer

This workshop provided information about how scientists use large scale field campaigns to collect data about the Earth's atmosphere in order to learn more about climate science. The hands-on activities allow teachers and students to analyze climate data sets and gain a better understanding of how climate models work.

Presentation:

- Using Scientific Field Campaigns to Learn About Climate Science
- Presentation Video

Classroom Activities:

- HIPPO Curtain Plots Short Lesson
- Classroom Activity Video

Supplementary Resources:

- Tools for Teaching Climate Science PDF
- Telling a Compelling Tale, Scientifically Speaking
- CO2 HIPPO I Plot
- CO2 HIPPO II Plot
- HIPPO Curtain Plots Short Lesson (Answers)
- Carbon Flow Student Worksheet
- CO2 Concentrations in the Atmosphere Student Worksheet
- PPT presentation - What is a Model?

Share |

ABOUT HIPPO

HIPPO is a landmark study for many reasons, not the least of which is it is the first time scientists have systematically mapped global distribution of carbon dioxide and other greenhouse gases in the atmosphere, covering the full troposphere in all seasons and multiple years.

FOLLOW HIPPO

Become a fan on Facebook

Follow Us on Twitter

Watch Us on YouTube

Receive NSF/NCAR GV flight notifications

FEATURED PUBLICATION

Philosophical Transactions of the Royal Society :: *HIAPER Pole-to-Pole Observations (HIPPO): fine-grained, global-scale measurements of climatically important atmospheric gases and aerosols*

HIPPO DATES

- HIPPO I :: 8 January-30 January, 2009
- HIPPO II :: 31 October-22 November, 2009
- HIPPO III :: 24 March-16 April, 2010
- HIPPO IV :: 14 June-11 July, 2011
- HIPPO V :: 9 August-9 September, 2011

Taking a Multi-pronged Approach to Expand the Reach of Climate Research Results

R. Hauser, T. Eastburn, A. Rockwell, M. Unger, and K. Laursen

Largely funded by the National Science Foundation (NSF), the National Center for Atmospheric Research (NCAR) strives to meet NSF objectives of educating the public, the media and the wider scientific community. Under this aegis, NCAR staff address a variety of populations, from K-12, to the public interested in science, to Congressional staffers responsible for providing policymakers with the latest research findings on a variety of topics – including current science.

Scientists and staff at the National Center for Atmospheric Research (NCAR) work with a wide variety of audiences. Each audience benefits from a slightly different approach to communication, which is tailored to their different interests, levels of expertise, value systems, and biases. As a result, we have designed a variety of programs to address a breadth of climate change communication needs.

PROGRAM APPROACHES TO MEET THE NEEDS OF A VARIETY OF AUDIENCES

Tours

NCAR hosts more than 15,000 people on public tours annually. These tours reach visitors from around the world with disparate knowledge and beliefs about climate change. Interpretation staff is well versed in communication methods and topics on the issue of climate change that resonate and meaningfully engage the audience.

Exhibits

- Research is conveyed in NCAR's Climate Discovery Exhibit with strong input from our scientists. Among the climate-focused exhibition features are video displays that share NCAR research; these multimedia resources are also posted on YouTube, iTunes University, and the NCAR website for broad dissemination.
- Audio tours convey exhibit content in greater detail. The new NCAR-Wyoming Supercomputing Center (NWSC) will continue this model. Additionally, NWSC exhibits will be mobile, bringing science research to residents across the state of Wyoming.
- NCAR's exhibit booth and staff travel to a variety of conferences, providing presentations, literature, and other information on NCAR research and support efforts.

Scientists Communicating Science

NCAR has a new program to help scientists more effectively communicate science, with an emphasis on targeting specific societal and commercial groups in a manner consistent with their values and beliefs. Included in this effort is nurturing a cadre of young scientists who see communicating science as part of their future career aspirations.

NCAR benefits from having science writers, outreach and education specialists, and a media team that help craft and disseminate the variety of messages aimed at NCAR's broad range of audiences.

SHORT-TERM NCAR PROGRAMS

NCAR runs a variety of short programs that invite specialists to the center to learn about climate and related Earth and atmospheric science. Among these are the Advanced Study Program's annual science colloquium for post-docs and recent graduates in the geosciences, the NCAR Journalism Fellowship for seasoned journalists interested in or covering science, the Research Experience for Teachers, who have an opportunity to talk to researchers and develop classroom curriculum, as well as various internship programs for high school, undergraduate and graduate students interested in atmospheric and Earth sciences.

The NSF/NCAR Gulfstream V *arrives in Anchorage, Alaska in August 2011 to begin the last series of flights in the HIAPER Pole-to-Pole field campaign.*

SOCIAL MEDIA

NCAR laboratories have a growing number of social media outlets. These include highlights on the Earth Observing Laboratory's field programs, updates on the NCAR-Wyoming Supercomputing Center build, information on the High Altitude Observatory's researchers, the latest NCAR research on AtmosNews, and Spark, UCAR Science Education, which can be found on Facebook, Twitter and YouTube. In addition, a Google Earth interactive visualization displays all of EOL's global field projects since 1984. Communities of practice that overlap with NCAR research areas in the computational and Earth sciences are fostered through these social media outlets.

NCAR has an active presence on a variety of Web 2.0 media, including its NCAR-Wyoming FaceBook page, www.facebook.com/pages/NCAR-Wyoming-Supercomputing-Center-Project-NWSC/121922481161446

PARTICIPATION IN NATIONAL INITIATIVES

Educators within UCAR Science Education contribute at a national level through participation in national initiatives such as the Climate Literacy and Energy Awareness Network (CLEAN), listservs, workshops and committees within numerous organizations (AGU, NSTA, ASTC, AMS). Through these interactions, NCAR research reaches educators who in turn bring science to the lives of many. Lesson plans and effective educational multimedia tools are also created that translate the research through engaging, data-rich inquiry lessons.

NCAR's Visualization Laboratory provides visitors with a real-world view on scientific data in a graphically dynamic way.

CONCLUSION: Providing information via a variety of message delivery systems and to diverse audiences is critical to delivering climate change messages effectively. Making the information useful and relevant, providing it in a context that reaches the intended recipients, and engaging the audience's curiosity are keys to successfully bringing science beyond the laboratory and into people's lives.

Events

2011 Undergraduate Leadership Workshop Students

2011 Journalism Fellows

2011 RETI Teachers

Outreach Events & Visits

HIPPO II	HIPPO III	HIPPO IV	HIPPO V
Open Houses: • RAF • Anchorage • Rarotonga • Christchurch Super Science Saturday	Booths at Las Vegas Science & Tech Expo RAF Open House	ULW Students RETI Teachers HIRO Students	Journalism Fellows
3100+	3015+	40+	15+


YouTube
HIPPO
2.0

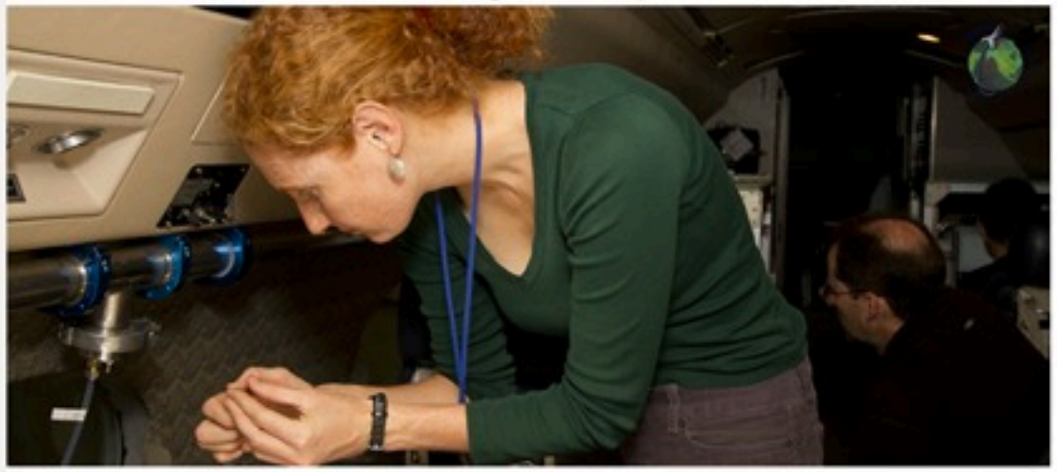
HIAPER Pole-to-Pole Observations

Search Site | Search

Home | HIPPO Project | Field Notes | HIPPO Team | Research Instruments | Itinerary | HIPPO In the News | Data

Share |

HIPPO V :: 9 August - 9 September, 2011



Phase V Flight Plan

- Boulder, CO USA
- Anchorage, AK USA
- Towards North Pole
- Kona, HI USA
- Rarotonga, Cook Islands
- Christchurch, New Zealand
- Towards South Pole

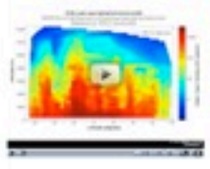
What is HIPPO?

The "HIAPER Pole-to-Pole Observations (HIPPO) of Carbon Cycle and Greenhouse Gases Study" will measure cross sections of atmospheric concentrations approximately pole-to-pole, from the surface to the tropopause, five times during different seasons over a three year period. A comprehensive suite of atmospheric trace gases pertinent to understanding the Carbon Cycle will be measured. The program will provide the first comprehensive, global survey of atmospheric trace gases, covering the full troposphere in all seasons and multiple years.

Featured HIPPO Videos

Sampling Black Carbon Over Sea-Ice and Open Leads
The HIPPO campaign presents an unparalleled opportunity to sample the atmosphere, as the name suggests literally from pole-to-pole, from 500 feet about the surface of the ocean to 45,000 feet in altitude. (*Learn more...*)

Carbon Dioxide Instrument
The CO_2 instrument draws air in through a rear facing inlet, in one of the the HIMIL which we'll go over and take a look at, there's one hanging on the bottom of the plane, it's easy to see. *(Learn more...)*



Atmospheric Water Vapor
This image also is showing a color representation of one of the species that we measure in the HIPPO experiment, this one is water vapor...(*Learn more...*)

Intertropical Convergence Zone
This photograph was taken from the aircraft as it was approaching the equator. What you seen there is the Intertropical Convergence Zone...(*Learn more...*)

ABOUT HIPPO

HIPPO is a landmark study for many reasons, not the least of which is it is the first time scientists have systematically mapped global distribution of carbon dioxide and other greenhouse gases in the atmosphere, covering the full troposphere in all seasons and multiple years.

FOLLOW HIPPO

Become a fan on Facebook
Follow Us on Twitter
Watch Us on YouTube
Receive NSF/NCAR GV flight notifications

FEATURED PUBLICATION

Philosophical Transactions of the Royal Society :: *HIAPER Pole-to-Pole Observations (HIPPO): fine-grained, global-scale measurements of climatically important atmospheric gases and aerosols*

HIPPO DATES

- HIPPO I :: 8 January-30 January, 2009
- HIPPO II :: 31 October-22 November, 2009
- HIPPO III :: 24 March-16 April, 2010
- HIPPO IV :: 14 June-11 July, 2011
- HIPPO V :: 9 August-9 September, 2011

Google Analytics

12,989 people visited this site

October 15, 2009 - Feb 28, 2012

- **19,446** Visits
- **12,989** Unique Visitors
- **50,690** Pageviews
- **2.61** Pages/Visit
- **00:02:30** Avg. Time on Site
- **65.92%** Bounce Rate
- **66.59%** % New Visits

- **66.61%** New Visitor
  12,953 Visits
- **33.39%** Returning Visitor
  6,493 Visits

Google Analytics

12,989 people visited this site October 15, 2009 - Feb 28, 2012

19,446 Visits

12,989 Unique Visitors

50,690 Pageviews

2.61 Pages/Visit

00:02:30 Avg. Time on Site

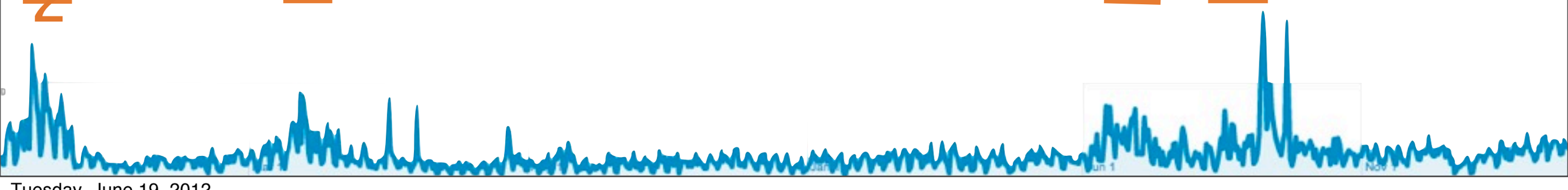
65.92% Bounce Rate

66.59% % New Visits

66.61% New Visitor
12,953 Visits

33.39% Returning Visitor
6,493 Visits

H2 H3 H4 H5

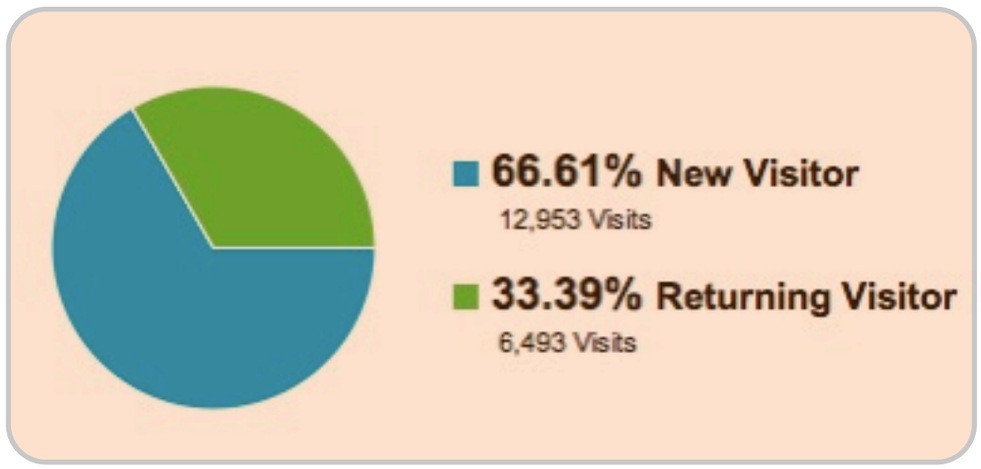


Google Analytics

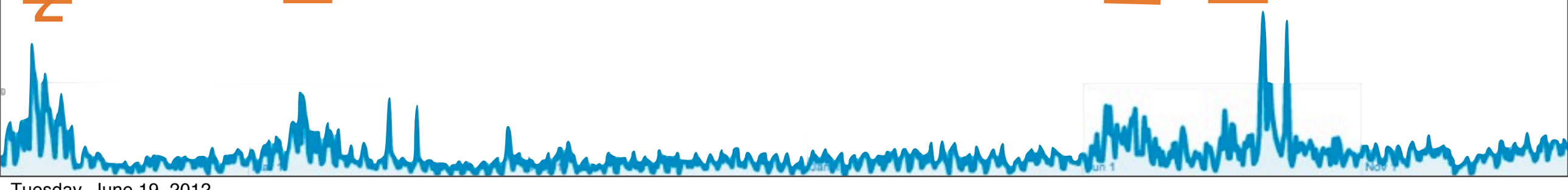
12,989 people visited this site

October 15, 2009 - Feb 28, 2012

- **19,446** Visits
- **12,989** Unique Visitors
- **50,690** Pageviews
- **2.61** Pages/Visit
- **00:02:30** Avg. Time on Site
- **65.92%** Bounce Rate
- **66.59%** % New Visits



H2 H3 H4 H5



Google Analytics

12,989 people visited this site

October 15, 2009 - Feb 28, 2012

19,446 Visits

12,989 Unique Visitors

50,690 Pageviews

2.61 Pages/Visit

00:02:30 Avg. Time on Site

65.92% Bounce Rate

66.59% % New Visits

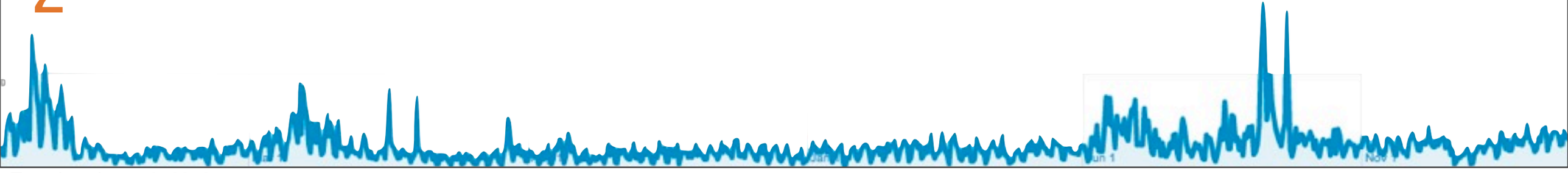
Average Website Performance Metrics

(Source: All websites listed on AnalyticsSEO using Google Analytics)

GA Metrics	Average
Average Pageviews per Visit	4
Average Time on Site (s)	161.5
Bounce Rate (%)	41
Brand Engagement (%)	43.5
E-commerce Transactions	81.9
New Visits (%)	65.4

http://www.analyticsseo.com/blog/average-website-metrics-google-analytics-bounce-rate-time-on-site

H2 H3 H4 H5



Google Analytics

12,989 people visited this site

October 15, 2009 - Feb 28, 2012

19,446 Visits

12,989 Unique Visitors

50,690 Pageviews

2.61 Pages/Visit

00:02:30 Avg. Time on Site

65.92% Bounce Rate

66.59% % New Visits

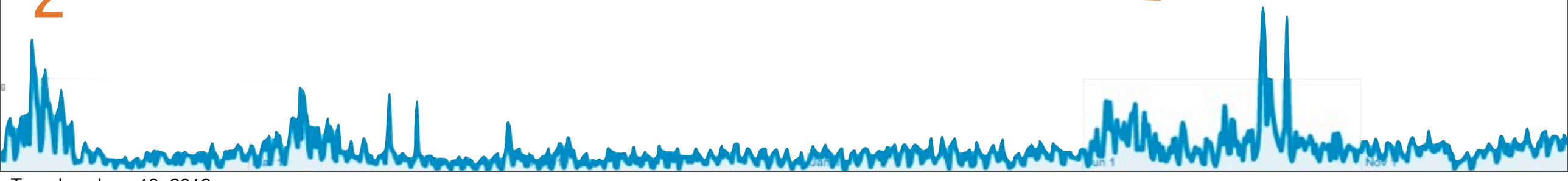
Average Website Performance Metrics

(Source: All websites listed on AnalyticsSEO using Google Analytics)

GA Metrics	Average
Average Pageviews per Visit	4
Average Time on Site (s)	161.5
Bounce Rate (%)	41
Brand Engagement (%)	43.5
E-commerce Transactions	81.9
New Visits (%)	65.4

http://www.analyticsseo.com/blog/average-website-metrics-google-analytics-bounce-rate-time-on-site

H2 H3 H4 H5



12,989 people visited this site October 15, 2009 - Feb 28, 2012

19,446 Visits

12,989 Unique Visitors

50,690 Pageviews

2.61 Pages/Visit

00:02:30 Avg. Time on Site

65.92% Bounce Rate

66.59% % New Visits

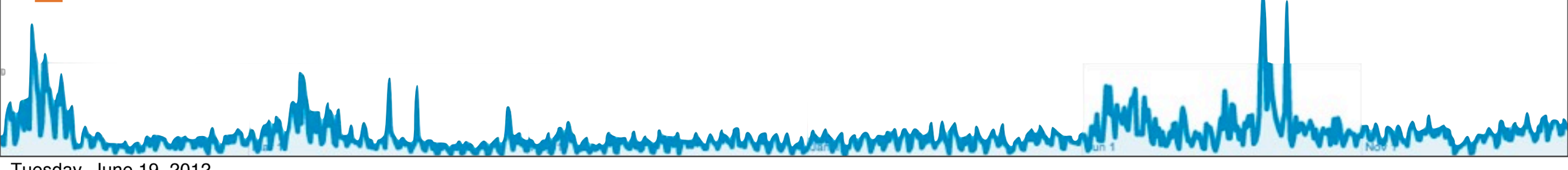
Average Website Performance Metrics

(Source: All websites listed on AnalyticsSEO using Google Analytics)

GA Metrics	Average
Average Pageviews per Visit	4
Average Time on Site (s)	161.5
Bounce Rate (%)	41
Brand Engagement (%)	43.5
E-commerce Transactions	81.9
New Visits (%)	65.4

http://www.analyticsseo.com/blog/average-website-metrics-google-analytics-bounce-rate-time-on-site

H2 H3 H4 H5



DETAILED GLOBAL PORTRAIT OF GREENHOUSE GASES EMERGES FROM POLE-TO-POLE FLIGHTS

September 07, 2011

Share/Print Tweet Share

News Release - 2011 | Multimedia Gallery - 2011 | Fact Sheet | HIPPO Home Page

BOULDER—A three-year series of research flights from the Arctic to the Antarctic has successfully produced an unprecedented portrait of greenhouse gases and particles in the atmosphere, scientists announced today. The far-reaching field project, known as HIPPO, is enabling researchers to generate the first detailed thee-dimensional mapping of the global distribution of gases and particles that affect Earth's climate.

The GV in Anchorage, Alaska during HIPPO. (©UCAR, Photo by Carlye Calvin. This image is freely available for media use. For more information, see Media & nonprofit use.*)

The series of flights, which come to an end this week, mark an important milestone as scientists work toward targeting both the sources of greenhouse gases and the natural processes that draw the gases back out of the atmosphere.

"Tracking carbon dioxide and other gases with only surface measurements has been like snorkeling with a really foggy mask," says Britton Stephens, a scientist with the National Center for Atmospheric Research (NCAR) and one of the project's principal investigators. "Finally, HIPPO is giving us a clear view of what's really out there."

"With HIPPO, we now have views of whole slices of the atmosphere," says Steven Wofsy, HIPPO principal investigator and atmospheric and environmental professor at Harvard University's School of Engineering and Applied Sciences. "We've been quite surprised by the abundance of certain atmospheric components and the locations where they are most common."

The three-year campaign has relied on the powerful capabilities of a specially equipped Gulfstream V aircraft, owned by the National Science Foundation (NSF) and operated by NCAR. The research jet, known as the High-performance Instrumented Airborne Platform for Environmental Research (HIAPER), has a range of about 7,000 miles (11,000 kilometers). It is outfitted with a suite of specially designed instruments to sample a broad range of atmospheric constituents.

The flights have helped scientists compile extraordinary detail about the atmosphere. The research team has studied air samples at different latitudes during various seasons from altitudes of 500 feet (150 meters) above Earth's surface up to as high as 45,000 feet (13,750 meters), into the lower stratosphere.

CONTACTS FOR THIS RELEASE

For Journalists

David Hosansky, Head of Media Relations
303-497-8611

Zhenya Gallon, Media Relations
303-497-8607

Britton Stephens, NCAR Scientist
303-497-1018

Steven Wofsy, Harvard Professor of Atmospheric and Environmental Science
617-495-4566

Cheryl Dybas, NSF Public Affairs
703-292-7734

Katy Human, NOAA Public Affairs
303-497-4747

more info for journalists >

UCAR COMMUNICATIONS

General inquiries
Yvonne Mondragon, 303-497-8601

Photo inquiries
Carlye Calvin, 303-497-8609

Digital Image Library

RELATED LINKS

HIPPO home page

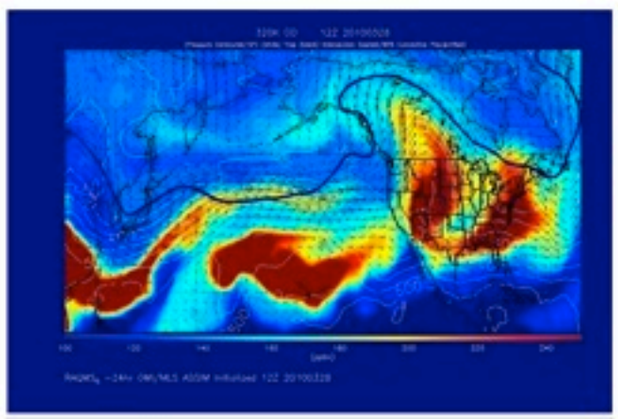
Article:

A HIPPO Takes to the Skies to Taste Earth's Atmosphere

Rachel Hauser, National Center for Atmospheric Research

Date: 14 October 2011 Time: 03:22 PM ET

In Cooperation With The National Science Foundation



This is from a model simulation of carbon monoxide, a pollutant usually present with black carbon in the atmosphere, from March through April 2010. The pollution travels eastward because of a springtime clockwise circulation in the central Pacific. It travels longer distances during this period, leading to higher black carbon loadings in the Northern Hemisphere.
CREDIT: Animations courtesy of R. Bradley Pierce, NOAA/NESDIS/STAR
View full size image

This Behind the Scenes article was provided to LiveScience in partnership with the National Science Foundation.

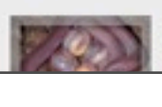
Once international agreements demand it, effective, enforceable greenhouse gas reduction will require in-depth information on the fluxes and transports of these and other atmospheric constituents.

Researchers know that concentrations of aerosols like black carbon and gases like carbon dioxide, water vapor, ozone, and nitrous oxide vary across the globe and by season. Until recently, a fine-grained picture of the concentrations and understanding of the dynamics of these atmospheric components did not exist.

MOST POPULAR ARTICLES


Shrinking Sky! Cloud Tops Dropping Closer to Earth, NASA
115,038 views


'Little Horny Man': Rock Carving of Giant Phallus Discovered
63,202 views

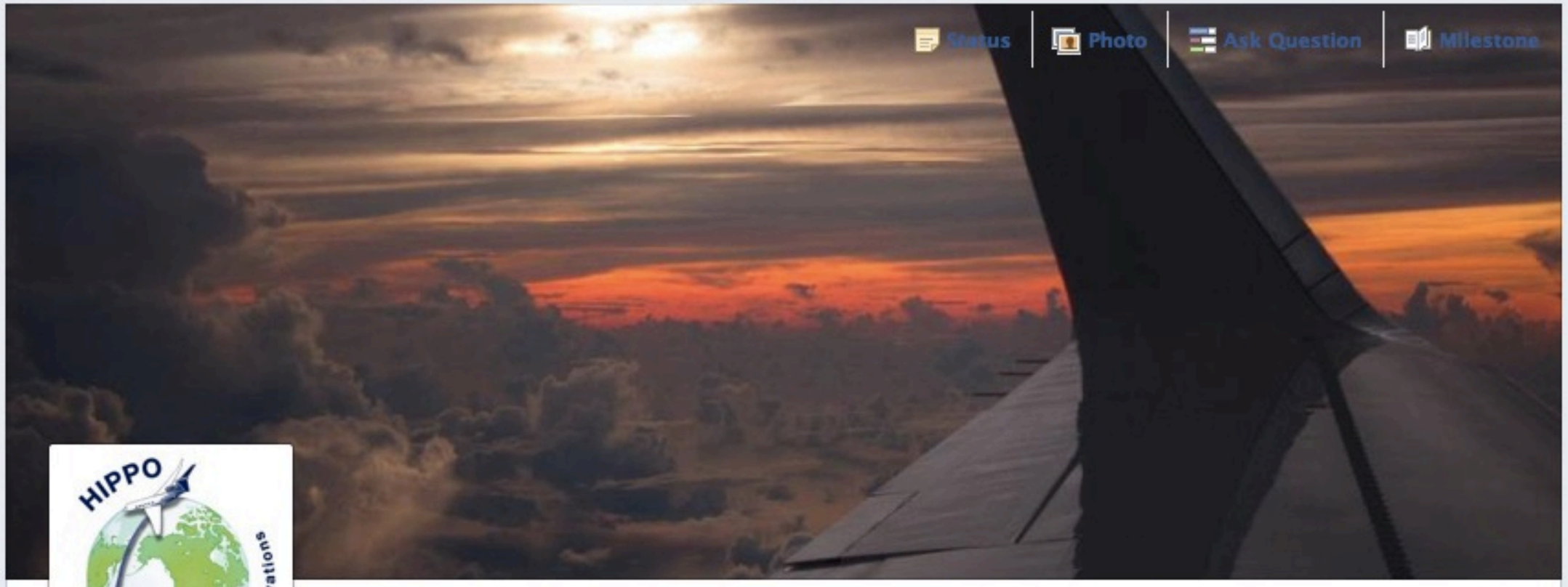

Newly Discovered Legless Amphibians Are Horrifying

facebook Search HIAPER Pole to Pole Observa... Home

HIAPER Pole to Pole Obser... Timeline Now Posts by Page

Admin Panel

Now
February
2012
2011
2010
Founded

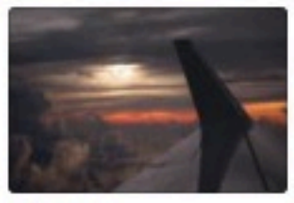


HIAPER Pole to Pole Observations (HIPPO)

586 likes · 4 talking about this

Non-Profit Organization

The project will provide the first comprehensive, global survey of atmospheric trace gases, covering the full troposphere in all seasons and multiple years.



586

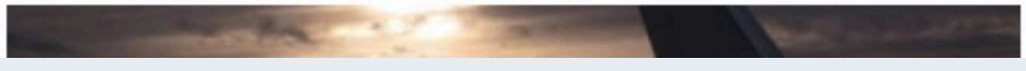
About Photos Likes Videos

Posts by Page

Status Photo Ask Question Milestone

What's on your mind?

HIAPER Pole to Pole Observations (HIPPO) updated their cover photo.
3 minutes ago



facebook Search HIAPER Pole to Pole Observa... Home

HIAPER Pole to Pole Obser... | Timeline | Now | Posts by Page

Admin Panel

Now
February
2012
2011
2010
Founded

Status Photo Ask Question Milestone

EARTH OBSERVING LABORATORY

NCAR Earth Observing Laboratory

585 likes · 10 talking about this

Non-Profit Organization
The Earth Observing Laboratory (EOL) is a world renowned leader in Atmospheric Science. For 50 years we have developed and deployed observing facilities

585

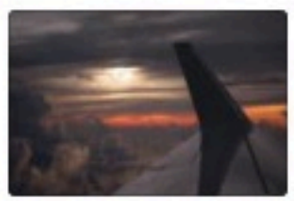
About Photos Likes

HIPPO

HIAPER Pole to Pole Observations (HIPPO)

586 likes · 4 talking about this

Non-Profit Organization
The project will provide the first comprehensive, global survey of atmospheric trace gases, covering the full troposphere in all seasons and multiple years.



586

About Photos Likes Videos

Posts by Page

Status Photo Ask Question Milestone

What's on your mind?

HIAPER Pole to Pole Observations (HIPPO) updated their cover photo.
3 minutes ago

Home Connect Discover Search

NCAR HIPPO

@NCAR_HIPPO

This study is the first time scientists have attempted to systematically map global distribution of carbon dioxide and other greenhouse gases in the atmosphere.

NCAR · http://hippo.ucar.edu/

Edit your profile

242 TWEETS

550 FOLLOWING

466 FOLLOWERS

- Tweets
- Following
- Followers
- Favorites
- Lists

Similar to you

- **NOAAOceanToday** @NOAAOceanT... Following
- **NASA Ames** @NASAAmes Following
- **Berkeley Science** @berkeleyscience Following

Tweets

NCAR HIPPO @NCAR_HIPPO 2 Dec
There will be several HIPPO talks at AGU this year, so make sure to add them to your itinerary! It's easy to find... fb.me/18vQLOKQo

NCAR HIPPO @NCAR_HIPPO 2 Nov
Methane and the Fierce Urgency of Now fb.me/1eMrAv8yQ

NCAR HIPPO @NCAR_HIPPO 15 Oct
A HIPPO Takes to the Skies to Taste Earth's Atmosphere | Behind the Scenes | LiveScience fb.me/wJ03SdBE

NCAR HIPPO @NCAR_HIPPO 20 Sep
HIPPO is loving the international coverage too. ¡Muy bien! fb.me/xitl2HTF

NCAR HIPPO @NCAR_HIPPO 16 Sep
I posted 7 photos on Facebook in the album "DYNAMO :: S-PolKa Radar Set Up" fb.me/10U3pjwvP

NCAR HIPPO @NCAR_HIPPO 13 Sep
Another great collection of images from the HIPPO celebration last week, honoring all of the hard work done by the... fb.me/wrwqiOMn

NCAR HIPPO @NCAR_HIPPO 12 Sep
I posted 8 photos on Facebook in the album "HIPPO Commencement Party" fb.me/NBflDja2

NCAR HIPPO @NCAR_HIPPO 7 Sep
HIPPO Press Release fb.me/13ojgnRhS

Home Connect Discover Search

NCAR HIPPO

@NCAR_HIPPO

This study is the first time scientists have attempted to systematically map global distribution of carbon dioxide and other greenhouse gases in the atmosphere.

NCAR · http://hippo.ucar.edu/

Edit your profile

242 TWEETS

550 FOLLOWING

466 FOLLOWERS

Earth Observing Lab

@ncareol

The Earth Observing Laboratory (EOL) is a world renowned leader in Atmospheric Science.

Boulder Colorado · http://www.eol.ucar.edu

Follow

276 TWEETS

890 FOLLOWING

453 FOLLOWERS

Similar to you

NOAAOceanToday @NOAAOceanT...
Following

NASA Ames @NASAAmes
Following

Berkeley Science @berkeleyscience
Following

twitter
© 2012 Twitter About Help Terms Privacy
Blog Status Apps Resources Jobs
Advertisers Businesses Media Developers

NCAR HIPPO @NCAR_HIPPO 15 Oct
A HIPPO Takes to the Skies to Taste Earth's Atmosphere | Behind the Scenes | LiveScience fb.me/wJ03SdBE

NCAR HIPPO @NCAR_HIPPO 20 Sep
HIPPO is loving the international coverage too. ¡Muy bien! fb.me/xitl2HTF

NCAR HIPPO @NCAR_HIPPO 16 Sep
I posted 7 photos on Facebook in the album "DYNAMO :: S-PolKa Radar Set Up" fb.me/10U3pjwvP

NCAR HIPPO @NCAR_HIPPO 13 Sep
Another great collection of images from the HIPPO celebration last week, honoring all of the hard work done by the... fb.me/wrwqiOMn

NCAR HIPPO @NCAR_HIPPO 12 Sep
I posted 8 photos on Facebook in the album "HIPPO Commencement Party" fb.me/NBflDja2

NCAR HIPPO @NCAR_HIPPO 7 Sep
HIPPO Press Release fb.me/13ojgnRhS

YouTube

Browse | Movies | Upload | HIPPONCAR

NCAR's HIPPO

106 subscribers ›

39,692 video views ›

Edit Channel

Featured | Feed | Videos

Search Channel

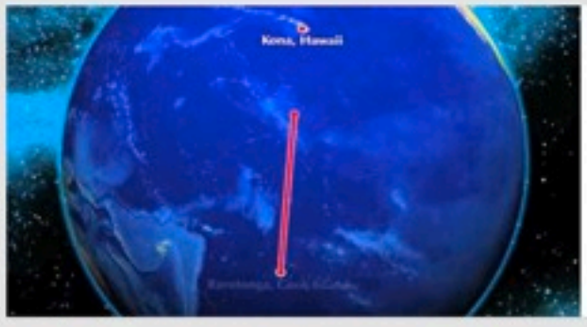
Edit

HIPPO II - Research Flight 03 — 23,443

by HIPPONCAR 2 years ago

Uploaded videos 1-10 of 34

Play All | Edit



HIPPO V Flight Plan :: 9 August - 9 Se...

HIPPONCAR 841 views

HIPPO V tentative global flight plan for 9 August - 9 September, 2011 http://www.hippo.ucar.edu The "HIAPER Pole-to-Pole Observations (HIPPO) of Carbon Cycle and

About NCAR's HIPPO

Edit

hippo.ucar.edu/

Created by HIPPONCAR

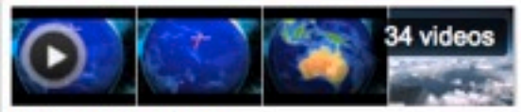
Latest Activity Dec 20, 2011

Date Joined Oct 5, 2009

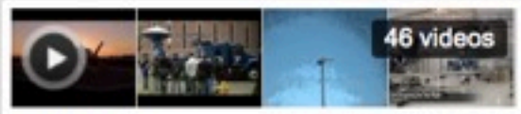
more

Featured Playlists

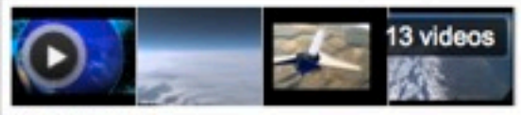
Edit



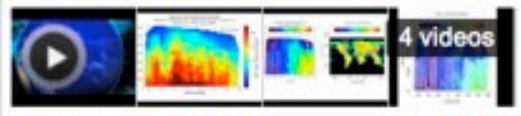
Uploaded videos
by NCAR's HIPPO



Favorite videos
by NCAR's HIPPO



HIPPO SSS
by NCAR's HIPPO



UNLV
by NCAR's HIPPO

Other Channels

YouTube

Browse | Movies | Upload | HIPPONCAR

NCAR's HIPPO

106 subscribers ›

39,692 video views ›

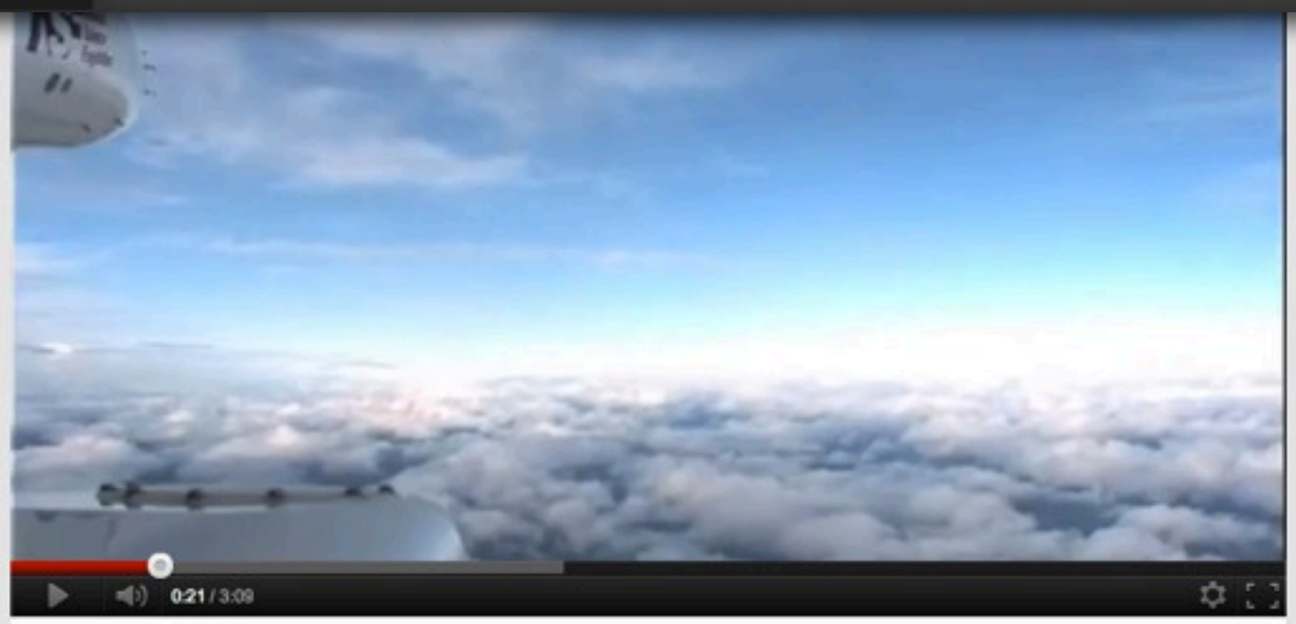
Featured | Feed | Videos | Search Channel

Earth Observing Laboratory

115 subscribers ›

11,830 video views ›

Featured | Feed | Videos | Search Channel



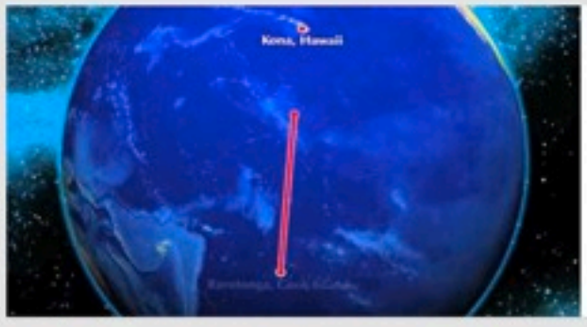
HIPPO II - Research Flight 03

by HIPPONCAR 2 years ago

23,443

Uploaded videos 1-10 of 34

Play All | Edit



HIPPO V Flight Plan :: 9 August - 9 Se...

HIPPONCAR 841 views

HIPPO V tentative global flight plan for 9 August - 9 September, 2011 http://www.hippo.ucar.edu The "HIAPER Pole-to-Pole Observations (HIPPO) of Carbon Cycle and

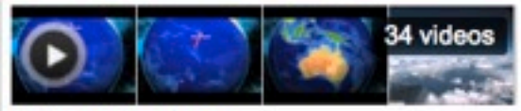
Latest Activity Dec 20, 2011

Date Joined Oct 5, 2009

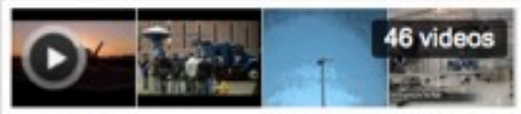
more

Featured Playlists

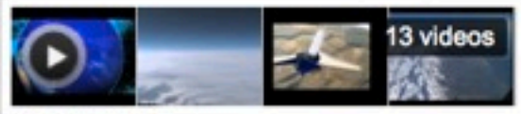
Edit



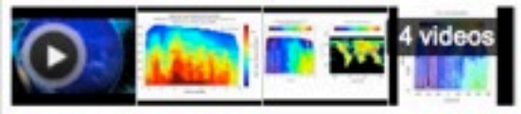
Uploaded videos
by NCAR's HIPPO



Favorite videos
by NCAR's HIPPO



HIPPO SSS
by NCAR's HIPPO



UNLV
by NCAR's HIPPO

Other Channels

Channel: HIPPONCAR

Lifetime (Oct 6, 2009 – Feb 28, 2012)

Performance

39,458
Views

$0
Total estimated earnings

Engagement

69
Likes

0
Dislikes

22
Comments

6
Shares

134
Favorites added

105
Subscribers net change

Top 10 videos

Browse all videos

	Video	Views ↓	Subscribers net change	Total estimated earnings
1.	HIPPO II - Research Flight 03	23,439	0	$0
2.	Intertropical Convergence Zone	4,759	0	$0
3.	HIPPO III Flight Plan	2,556	0	$0
4.	HIPPO V Flight Plan :: 9 August - 9 September, 2011	842	0	$0
5.	Carbon Dioxide (CO2) Instrument on the HIPPO Cam…	562	0	$0
6.	Atmospheric Water Vapor	510	1	$0
7.	HIPPO Phase II RF02 Polar Flight	468	0	$0
8.	HIPPO II - Research Flight 04	407	0	$0
9.	HIPPO IV Flight Plan :: 14 July - 10 June, 2011	399	0	$0
10.	HIPPO II - Research Flight 01	380	0	$0

Demographics

Top geographies

Spain
United States
Argentina
Mexico
Brazil

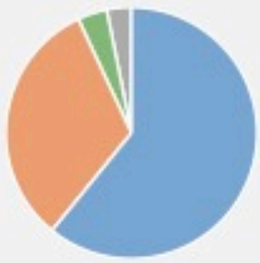
Gender

- Male **80.1%**
- Female **19.9%**

Discovery

Top playback locations

- Embedded player on other websites **60.9%**
- YouTube watch page **32.1%**
- Mobile devices **3.8%**
- Other **3.2%**



Top traffic sources

- Mobile apps and direct traffic **70.5%**
- View referrals from YouTube **21.8%**
- View referrals from outside YouTube **7.7%**
- Other **0.0%**

HIPPO in Print

HIPPO Pens!


Our Paper-Thin Atmosphere
Reflections on Climate
HIPPO Brochures

HIPPO Stickers

Your photostream

96 items / 4 views

Sets | Galleries | Tags | People | Archives | Favorites | Popular | Profile

Slideshow | Share

DSC00225

Photo Credit: Alison Rockwell

© Anyone can see this photo (edit)

Uploaded on Feb 29, 2012 | Delete

0 comments

DSC00212

Photo Credit: Alison Rockwell

© Anyone can see this photo (edit)

Uploaded on Feb 29, 2012 | Delete

0 comments

DSC00211

Photo Credit: Alison Rockwell

© Anyone can see this photo (edit)

Uploaded on Feb 29, 2012 | Delete

0 comments

DSC00184

Photo Credit: Alison Rockwell

© Anyone can see this photo (edit)

Uploaded on Feb 29, 2012 | Delete

0 comments

DSC00183

Photo Credit: Alison Rockwell

© Anyone can see this photo (edit)

Uploaded on Feb 29, 2012 | Delete

0 comments

DSC00182

Photo Credit: Alison Rockwell

© Anyone can see this photo (edit)

Uploaded on Feb 29, 2012 | Delete

0 comments

HIPPO V

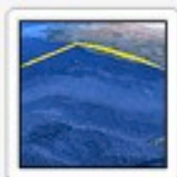
22 photos
1 view
(edit set)

HIPPO IV

27 photos
(edit set)

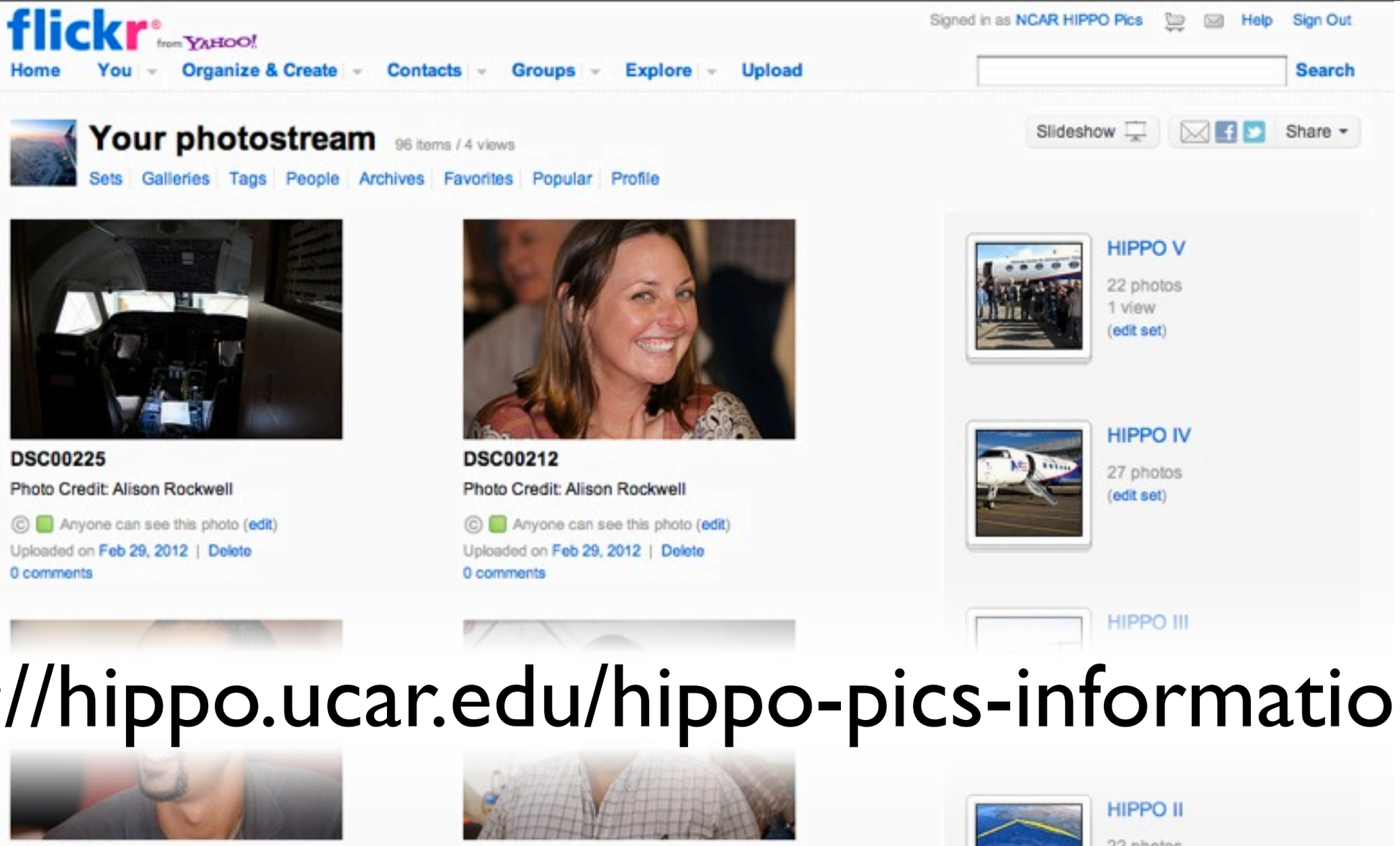
HIPPO III

25 photos
(edit set)



HIPPO II

22 photos
(edit set)



http://hippo.ucar.edu/hippo-pics-information

http://hippo.ucar.edu/hippo-pics-information

HIAPER
Pole-to-Pole
Observations

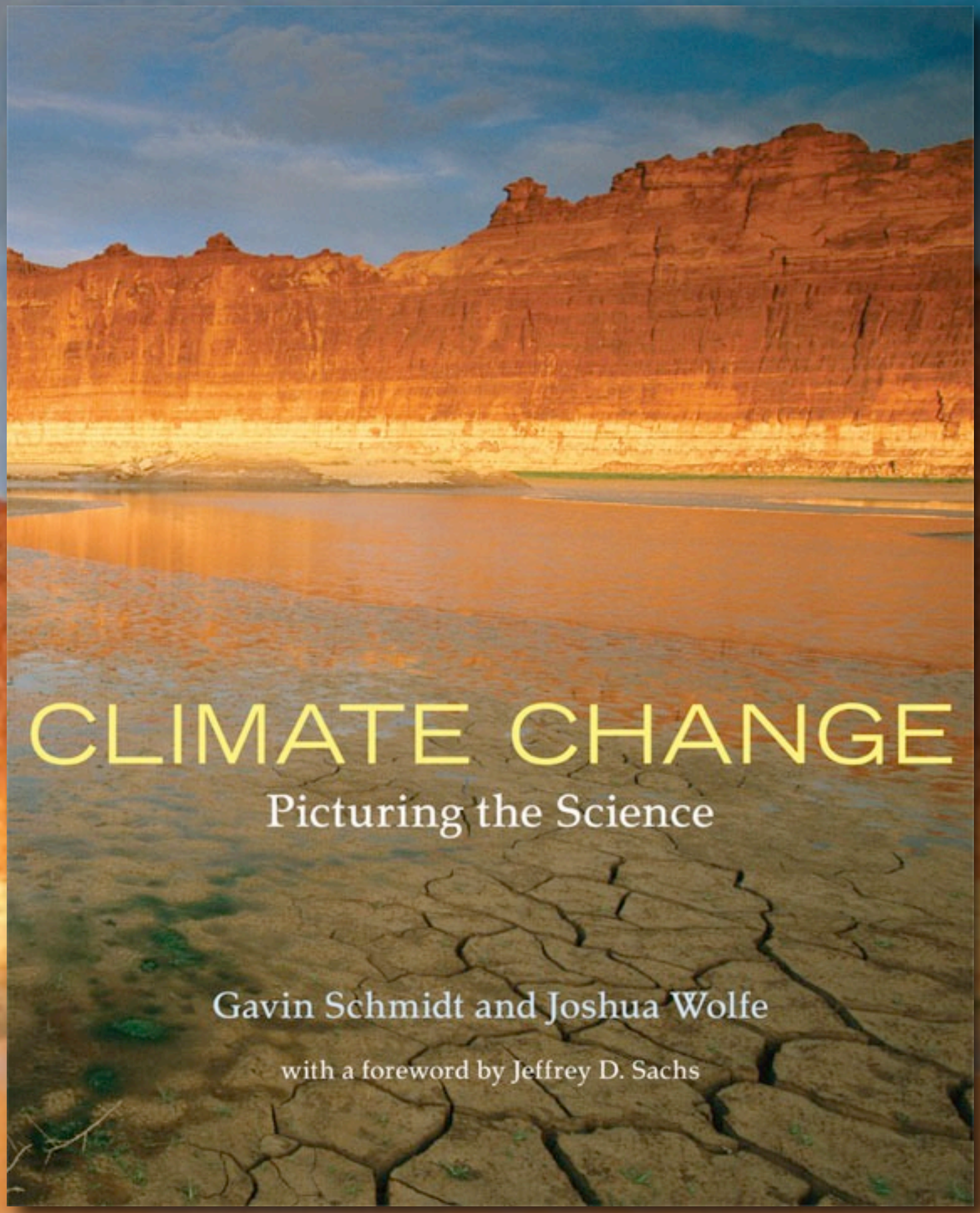
Home | HIPPO Project | Field Notes | HIPPO Team | Research Instruments | Itinera

HIPPO Pics Information

There is now a place for everyone to upload and share their HIPPO pictures!

A Flickr (online photo organization and sharing software) account has been set up, you can access it with the following information:

URL: http://www.flickr.com/photos/hippopics/
Yahoo! ID: hippopics
Password: greenhouse


CLIMATE CHANGE
Picturing the Science
Gavin Schmidt and Joshua Wolfe
with a foreword by Jeffrey D. Sachs