

NEO (NASA Earth Observations)

<http://neo.sci.gsfc.nasa.gov/>

&

NASA Earth Observatory

<http://earthobservatory.nasa.gov/>

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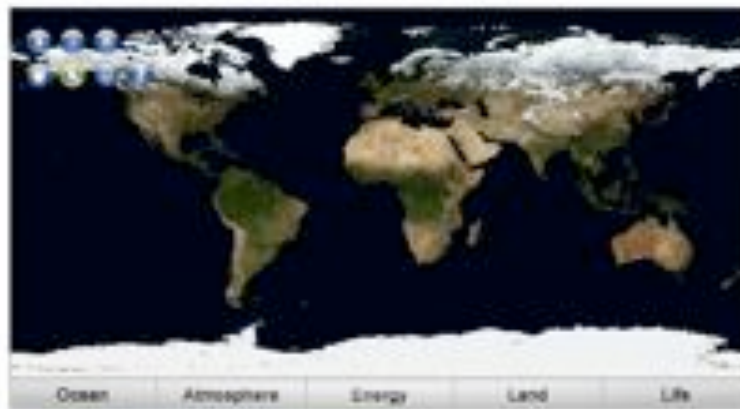


# NEO

NASA Earth Observations

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Tip: New dataset: Global Temperature Anomaly. See the 'Energy' tab below.



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Analysis Matching Datasets

Blue Marble: Next Generation  
+Topo+Bathy (Terra/MODIS)

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Blue Marble: Next Generation (Terra/MODIS)  
December 1, 2004 00:00-January 1, 2005 00:00  
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  - October 1, 2004 00:00 to November 1, 2004 00:00
  - September 1, 2004 00:00 to October 1, 2004 00:00
  - August 1, 2004 00:00 to September 1, 2004 00:00
  - July 1, 2004 00:00 to August 1, 2004 00:00
  - June 1, 2004 00:00 to July 1, 2004 00:00

- **What is NEO?**

- A collection of global NASA satellite data imagery that can be easily accessed and utilized by a variety of users and applications
- Address the needs of data users who do not possess the expertise or tools to handle raw data

## **Target Audiences**

- Formal & informal educators
- Museums & Science Centers
- Science communicators

- **Why come to NEO?**

- Images for publication/poster
- Images for external application
  - e.g., Google Earth, WMS, planetarium
- Perform basic analysis (education)

- **NEO holdings**

- 50+ global datasets
- Daily, weekly, and monthly composites
- Most 0.1 degree (3600x1800)
- Imagery produced by science teams, data processing facilities to NEO specification
  - MODIS groups, NSIDC, NOAA, NASA Langley, Goddard DISC

# NEO development for 2010

- Focus on supporting “spheres”
  - Science on a Sphere (53 installations, 12 this year)
  - Magic Planet, Global Microscope, etc.
  - best distribution point for NASA datasets to public





GEO-VII

NEO (NASA Earth Observations)

<http://neo.sci.gsfc.nasa.gov/>

For more information:

Kevin Ward

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## Earth Observatory

Home Image of the Day Features Articles News Natural Hazards Global Maps Blogs

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### Image of the Day



Avachinsky Volcano, Kamchatka Peninsula

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### Natural Hazards



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### Global Maps



[see Primary Productivity](#)

### Features

[Notes from the Field Blog: Real-time Observations of Greenland's Under-ice Environment \(ROGUE\)](#)

During the spring of 2011, the ROGUE project is examining the nature and cause of short-term ice velocity changes near Swiss Camp, Greenland by observing interactions between the ice sheet, the atmosphere and the bed.

[Heavy Rains and Dry Lands Don't Mix: Reflections on the 2010 Pakistan Flood](#)

Unusual atmospheric conditions brought exceptional rain to Pakistan in the summer of 2010, causing the country's worst flooding in modern history.

[Notes from the Field Blog: MABEL, Spring 2011](#)

Flying on a high-altitude aircraft on the back of space, the MABEL instrument is helping scientists to simulate measurements from NASA's next ice-observing satellite, ICESat-2.

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### Blogs

May 10

[Second Time's the Charm](#)

May 10

[Odds and Evils: Morgan City, Louisiana, 1871](#)

May 11

[Map of the Ancient Mississippi](#)

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[Blue Marble](#)

Composite satellite images of the entire Earth.

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A catalog of NASA images and animations of our home.



# Earth Observatory Group: May 2011 At-a-glance

## Most Popular Image



### Flooding in Memphis

Acquired May 10, 2011, this natural-color image shows flooded and conditions along the Mississippi River in Memphis, Tennessee.

<http://tinyurl.com/663r3ol>

## Team Highlights

- Supported requests for flood imagery from a number of emergency response agencies (DHS/FEMA, U.S. Coast Guard, affected states) and media outlets; collaborated with the USGS and the EO-1 teams to obtain near-real time (and pre-flood where possible) imagery from the Landsat 5 and EO-1 satellites.
- Kevin Ward was an invited panelist and presenter of NEO (NASA Earth Observations) at the Science on a Sphere Users Collaborative Network Workshop in Chicago, IL.
- Rob Simmon presented and hosted a workshop on data visualization at the International Symposium on Remote Sensing of the Environment (ISRSE) in Sydney, Australia.
- Holli Riebeek represented the Earth Observatory at the Goddard Open House.

## In the Media

*The Weather Channel*

Temperature extremes related to TX wildfires



*John King (CNN)*

Mississippi River flooding



*The Situation Room (CNN)*

Mississippi /Ohio River flooding



# Images featured on the EO in 2010

- MODIS (both Terra & Aqua): 52%
- EO-1/ALI: 14%
- Landsats: 8%
- ISS: 6%
- all other sources: 20%

## Image of the Day for May 16, 2011



## Avachinsky Volcano, Kamchatka Peninsula

May 16, 2011

This satellite photograph highlights the subtle crater and snow-covered slopes of the Avachinsky stratovolcano as it peeks above a surrounding cloud deck.

[Read More](#)

### Previous Images



GRID VIEW

EXPLORE ALL

### Features



#### Notes from the Field Blog: Real-time Observations of Greenland's Under-ice Environment (ROQUE)

May 9, 2011

During the spring of 2011, the ROQUE project is examining the nature and cause of short-term ice velocity changes near Swiss Camp, Greenland by observing interactions between the ice sheet, the atmosphere and the bed. [Read More](#)

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- > Remote Sensing
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Natural Hazards



### Blogs

#### Boomerang!

May 9, 2011

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#### One of my Favorite Maps: the 1906 San Francisco Earthquake

May 10, 2011

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## Image of the Day for May 26, 2011

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Auriferous Streams, Yosemite Peninsula



Armed, Jerbal



Mangrove Flooded, 1911



Cold Front, Warm Front



Great Rift in Namibia and South Africa



Fishing in Minnesota



Honey Prairie Fire, Georgia



Rim Drift, Lake Apopka, Third



Red Sandstone, Nevada



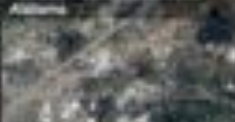
Muddy Spread Sinks along the Mississippi River



Flooding at the junction of the Mississippi and Ohio Rivers



Tornado Track in Decatur, Alabama



## Features



### Notes from the Field Blog: Real-time Observations of Greenland's Under-ice Environment (ROQUE)

May 6, 2011

During the spring of 2011, the ROQUE project is examining the nature and cause of short-term ice velocity changes near Serre Camp, Greenland by observing interactions between the ice sheet, the atmosphere and the bed. [Read More](#)

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## Natural Hazards



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May 10, 2011

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From the Archives

Remote Sensing  
Precision Farming

## Natural Hazards

All



May 22, 2012  
**Sahel Desert Dust Storm**



May 3, 2012  
**Dust Storm in the Sahara Desert**



May 3, 2012  
**Flooding along the Ni-Jolofa River, Guinea**



May 8, 2012  
**Honey Prairie Fire, Georgia**



May 6, 2012  
**Rain over the Schwan Basin**



May 4, 2012  
**Dust over the Persian Gulf**

## Global Maps

All



Aerosol Optical Depth



Aerosol Size



Carbon Monoxide



Chlorophyll



Cloud Fraction



Ice

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#### Earth Science Picture of the Day

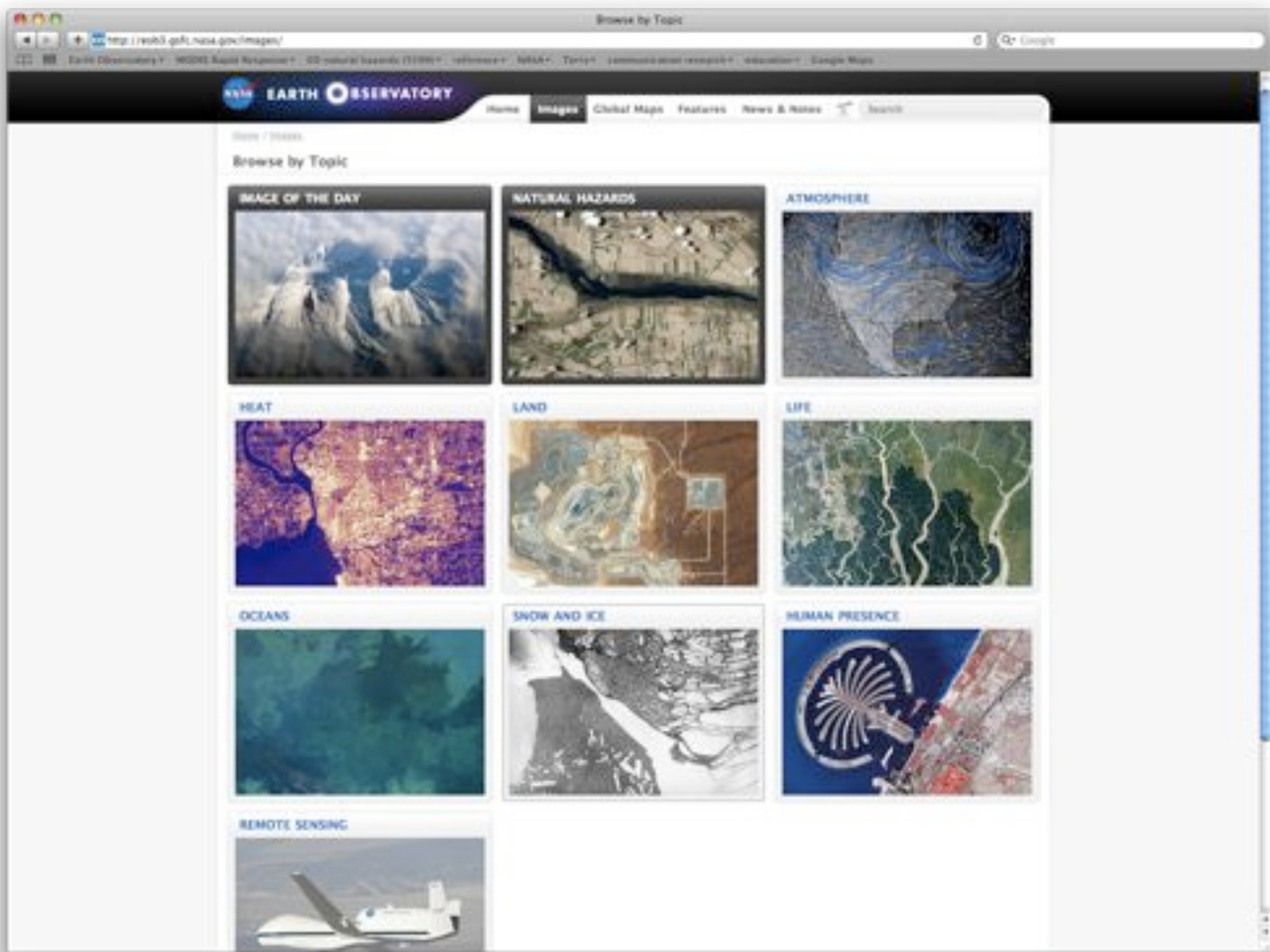
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 co-developed by Paul Fryxell and NASA official Laraine Remer



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### Natural Hazards



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May, 2011

[April 2011](#)



May 15, 2011  
**Dust Storm Over Sahel**



May 6, 2011  
**Dust Storm in the Sahara Desert**



May 9, 2011  
**Flooding along the Bichellou River, Quebec**



May 6, 2011  
**Forest Fires in Georgia**



May 7, 2011  
**Ashfall from Kamohaka Volcano**



May 6, 2011  
**Heat over the Sahel Basin**

[Image of the Day](#)

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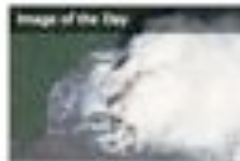
2011		
Jan	Feb	Mar
Apr	<b>May</b>	Jun

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## Fires : All Images


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May 5, 2011  
[Money Prairie Fire, Georgia](#)



May 5, 2011  
[Money Prairie Fire, Georgia](#)



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May 5, 2011  
[Fire in Scotland](#)



May 5, 2011  
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Home / Global Maps

### Global Maps

NASA satellites give us a global view of what's happening on our planet. To explore how key parts of Earth's climate system change from month to month, click on one of the maps below.

Annual Optical Depth



Annual Snow



Carbon Monoxide



Chlorophyll



Cloud Fraction



Fire



Land Surface Temperature



Land Surface Temperature Anomaly



Sea Primary Productivity



Sea Ice Extent



Sea Surface Temperature



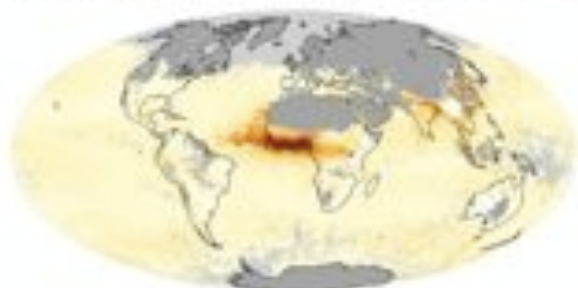
Sea Surface Temperature Anomaly



## Global Maps

January 2007

## Aerosol Optical Depth



## Fire



January 2007 [1d] [4d] [1w] [1m] [3m] [6m] [1y] April 2011

[Download a Quicktime animation of this comparison \(3 MB\)](#)

## Aerosol Optical Depth &amp; Fire

In addition to gases and clouds, Earth's atmosphere contains tiny liquid and solid particles called aerosols. Aerosols influence air quality and public health, and they can influence climate by reflecting or absorbing sunlight and by changing where and when clouds form. Aerosols include sea salt, dust, and volcanic ash, as well as soot, sulfates, and other particles produced by people burning fossil fuels. Natural and human-caused fires are also significant sources of aerosols.

The aerosol maps show average monthly aerosol amounts around the world based on observations from the MODIS sensor on NASA's Terra satellite. Satellite measurements of aerosols, called aerosol optical thickness, are

## Aerosol Optical Depth &amp; Fire

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Fire

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### Notes from the Field Blog: Real-time Observations of Greenland's Under-ice Environment (ROQUE)

May 5, 2011

During the spring of 2011, the ROQUE project is examining the nature and cause of short-term ice velocity changes near Sella Camp, Greenland by observing interactions between the ice sheet, the atmosphere and the bed. [Read More](#)



### Heavy Rains and Dry Lands Don't Mix: Reflections on the 2010 Pakistan Flood

April 6, 2011

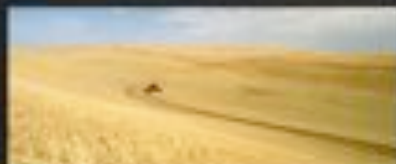
Unusual atmospheric conditions brought exceptional rain to Pakistan in the summer of 2010, causing the country's worst flooding in modern history. [Read More](#)



### Notes from the Field Blog: MABEL, Spring 2011

April 6, 2011

Flying on a high-altitude aircraft on the brink of space, the MABEL instrument is helping scientists to simulate measurements from NASA's next ice-observing satellite, ICESat-2. [Read More](#)



### Precision Farming

January 20, 2010

The U.S. Department of Agriculture, NASA, and NOAA are among key agencies contributing to precision farming revolution. The goal is to improve farmers' profits and harvest yields while reducing the negative impacts of farming on the environment that come from over-

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## Results for: Oceans

**As the Seasons Change, Will the Plankton?**

February 17, 2011

To understand the planet's biggest food source—phytoplankton—and perhaps its most important sink for carbon dioxide, you've got to get out on the water. [Read More](#)**World of Change: Global Temperatures**

December 6, 2010

The world is getting warmer, whatever the cause. According to an analysis by NASA scientists, the average global temperature has increased by about 1.8°C (3.4°F Fahrenheit) since 1850. Two-thirds of the warming has occurred since 1975. [Read More](#)**The Water Cycle**

October 1, 2010

Landscape sculptor. Climate driver. Life supporter. Water is the most important molecule on our planet. [Read More](#)**Gulf of Mexico Oil Slick Images: Frequently Asked Questions**

July 21, 2010

This FAQ explains why oil is more obvious in some satellite images than others and why the Earth Observatory doesn't post new images of the oil slick every day. [Read More](#)**What are Phytoplankton?**

July 16, 2010

Microscopic, plant-like organisms called phytoplankton are the base of the marine food web, and they play a key role in removing carbon dioxide from the air. [Read More](#)

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2011 / Blog / Earth Observatory Blogs

### Updates from our blogs over the past 30 days.

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**Notes from the Field: Real-time Observations of Greenland's Under-ice Environment (ROCUED)**

[Boomerang!](#) May 4, 2011

**Notes from the Field: Real-time Observations of Greenland's Under-ice Environment (ROCUED)**

[Planes, Snowmobiles, and Helicopters](#) May 3, 2011

**Notes from the Field: Real-time Observations of Greenland's Under-ice Environment (ROCUED)**

[One Step Closer ...](#) May 2, 2011

**Notes from the Field: Real-time Observations of Greenland's Under-ice Environment (ROCUED)**

[Can't ROCU!](#) May 1, 2011

**Elegant Figures** April 22, 2011

[International Iconography](#)

#### Blogs

##### **Elegant Figures**

Our lead visualizer, Robert Simmon, blogs about data visualization and information design on the Earth Observatory.

##### **Climate Q&A**

Myths, misunderstandings, and frequently asked questions about climate.

##### **Notes from the Field**

Posts from NASA scientists in the field

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## Boomerang!

May 04, 2011 by Tom Neumann

May 3, 2011



Your trusty correspondents, Tom (left) and Matt (right), on the way to Swiss Camp. Credit: NASA.

When thrown properly, a boomerang will always come back to the thrower. When thrown improperly, it ends up over the neighbor's fence where a dog chews on it, and you don't get your boomerang back, but that is another story for another day.) This afternoon, Matt and I enjoyed what is known as a boomerang - after an hour and a half flight to Swiss Camp, we weren't able to land, and so returned to Kangerlussuaq for the night. Perhaps I'm getting ahead of myself.

The weather observations from Swiss Camp reported by Dr. Koni Steffen (who is already out at Swiss Camp, the lucky guy) revealed high winds all morning, up to 40 kts. (far too windy for the Twin Otter to safely land). Consequently, the Twin Otter went elsewhere to pick up cargo from another science group. Matt and I watched the weather carefully during the day, and tried to get some productive work done.

Around 2 p.m. local time, the report from Koni was that the winds had died down, and the weather was improving. After additional reports at 3 p.m. and 4 p.m., the pilots decided it sounded good enough to fly north and check it out. Matt and I helped the cargo crew load the plane with our remaining bags, boxes, and pipes and head north to Swiss Camp.



### Notes from the Field

Browse by Expedition

- [Real-time Observations of Greenland's Under-ice Environment \(ROUCE\)](#)
- [Operation IceBridge: Arctic 2011](#)
- [MARS: Spring 2011](#)
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# The Core Team

- Kevin Ward - team leader, developer
- Michael Carlowicz – editor
- Rob Simmon - lead visualizer
- Holli Riebeek – writer
- Michon Scott – writer
- Jesse Allen – visualizer
- Paul Przyborski – system admin., developer

## Image of the Day for May 16, 2011



## Avachinsky Volcano, Kamchatka Peninsula

May 16, 2011

This satellite photograph highlights the subtle crater and snow-covered slopes of the Avachinsky stratovolcano as it peeks above a surrounding cloud deck.

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#### Notes from the Field Blog: Real-time Observations of Greenland's Under-ice Environment (ROQUE)

May 9, 2011

During the spring of 2010, the ROQUE project is examining the nature and cause of short-term ice velocity changes near Swiss Camp, Greenland by observing interactions between the ice sheet, the atmosphere and the bed. [Read More](#)

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