Update from Google Ocean

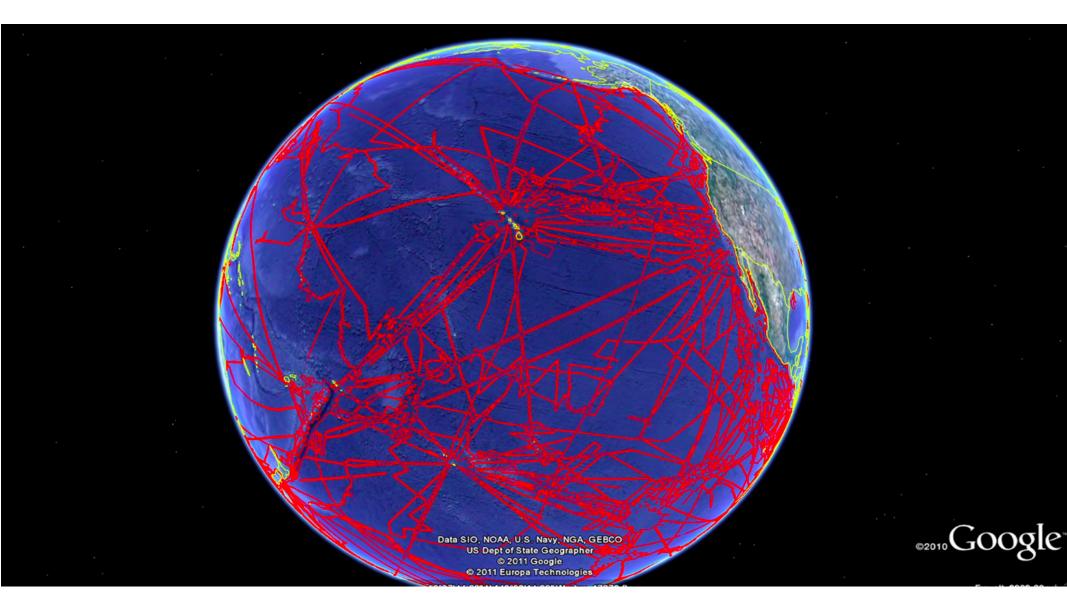


New Data, Google Maps Engine.

Jenifer Austin Foulkes Manager, Google Ocean Program

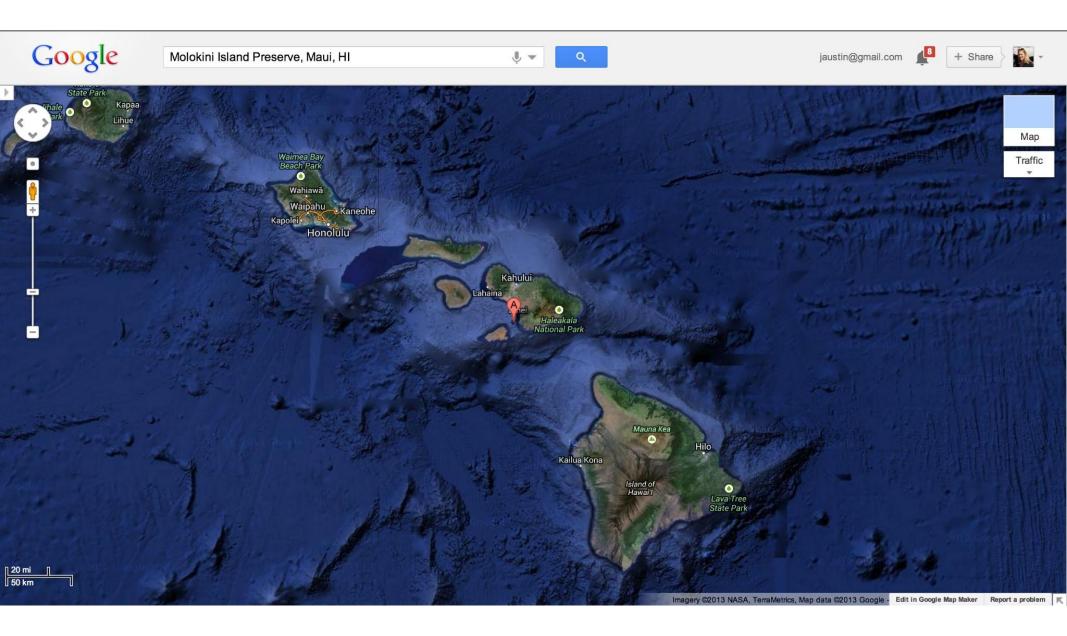


Multi-resolution ocean map in Google Earth





Over a billion people use Google Maps every month





New Google Maps





Ocean Map: \$3.5 billion ocean map data synthesis today.

Global 1 km, low resolution grid for the entire ocean from Scripps/UCSD/NOAA/NGA/US Navy/GEBCO. Version 4 published 2/2/2009. +Version 7 published 2/2/2012

100 meter resolution synthesis covering 5% of the ocean from Columbia University/Lamont Doherty.

- +Published 6/8/2011, on World Oceans Day.
- +3 MILLION miles traveled: An area larger than North America: [~16,524,000 sq km]
- +Over 500 ship cruises from 20 organizations: Antarctic Support Associates, Columbia University, The Leibniz Institute of Marine Sciences at the University of Kiel (IFM-GEOMAR), Monterey Bay Aquarium Research Institute (MBARI), SHOA, Hydrographic and Oceanographic Service of the Chilean Navy, University of California at San Diego's Scripps Institute of Oceanography, University of Hawaii, University of Washington, US Coast Guard, US National Oceanographic and Atmospheric Administration (NOAA), US Navy, Woods Hole Oceanographic Institution

Other Bathymetry published in Google Ocean Map:

- University of Hawaii at Manoa 50 meter synthesis
- Japan Hydrographic Association coast 30 meter bathymetry. (Sugua Bay)
- 6 & 10 meter Massachussetts Bay data from USGS Woods Hole center.
- CSU Monterey Bay CA coastal survey out to 3 nautical miles; 1-2 meter.
- UNH/NOAA/University of Stockholm IBCAO arctic synthesis
- MBARI bathymetry- Monterey Bay 1 m, Oregon, Seamounts, Southern California
- Lake Baikal, Russia bathymetry from Universite Gent
- NOAA Great Lakes bathymetry
- Oregon State data for American Samoa & eastern underwater volcanoes and islands in W. Pacific: Tinian Island, Maug Island, Kingman Island, Johnston Atoll, Rose Atoll, Palmyra Atoll, Saipan Island, Alamagan Island (N. Marianas).
- NOAA Pacific Islands benthic bathymetry (from Hawaii)
- NOAA NGDC Gulf of Mexico bathymetry
- IBCAO Arctic Synthesis with University of Stockholm and many others.



World Ocean Day first feature of NOAA NGDC bathymetry pipeline.



Google Maps

1,763,780 people have them in circles



Google Maps

Shared publicly - Jun 8, 2013

#Ocean

On World Oceans Day, it's the perfect time to dive in and explore!

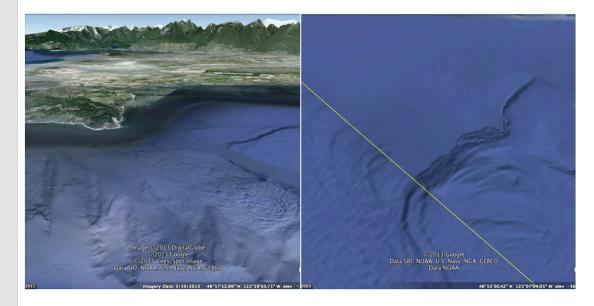
You can download a Google Earth tour list at http://goo.gl/jyDan - let us know if you have any favorite spots to share in the comments!

Google Earth originally shared:

Revealing the Ocean on World Oceans Day!

Here's a sneak preview of our work to improve our ocean map in Google Earth and Maps in partnership with NOAA's National Geophysical Data Center (http://goo.gl/zZpPB) and the University of Colorado CIRES program (http://goo.gl/b3dGH).

Explore more today by downloading this Google Earth tour list http://goo.gl/jyDan







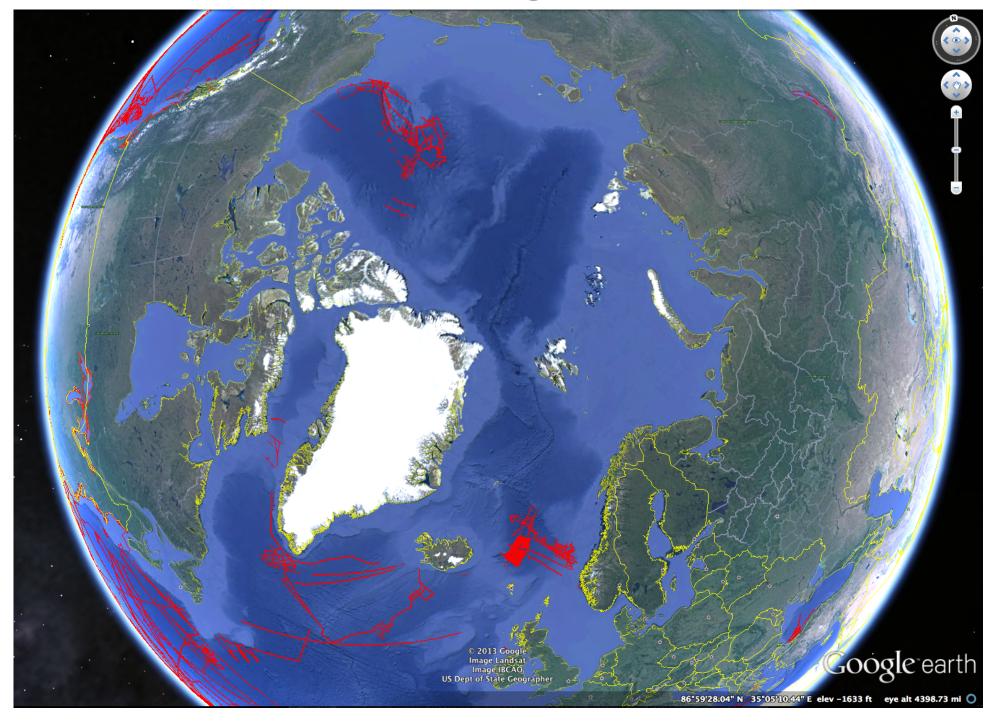


In Liquid Galaxy display at Oceanographic Museum in Monaco: Schmidt Ocean Institute MBARI Campache Escarpment.

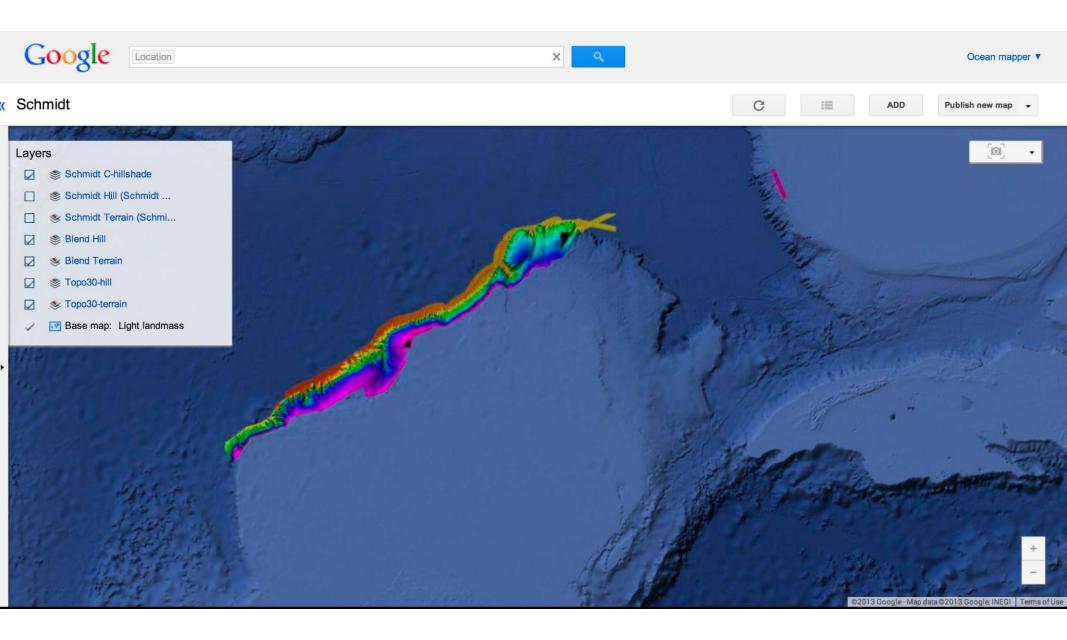




Need more arctic mapping....

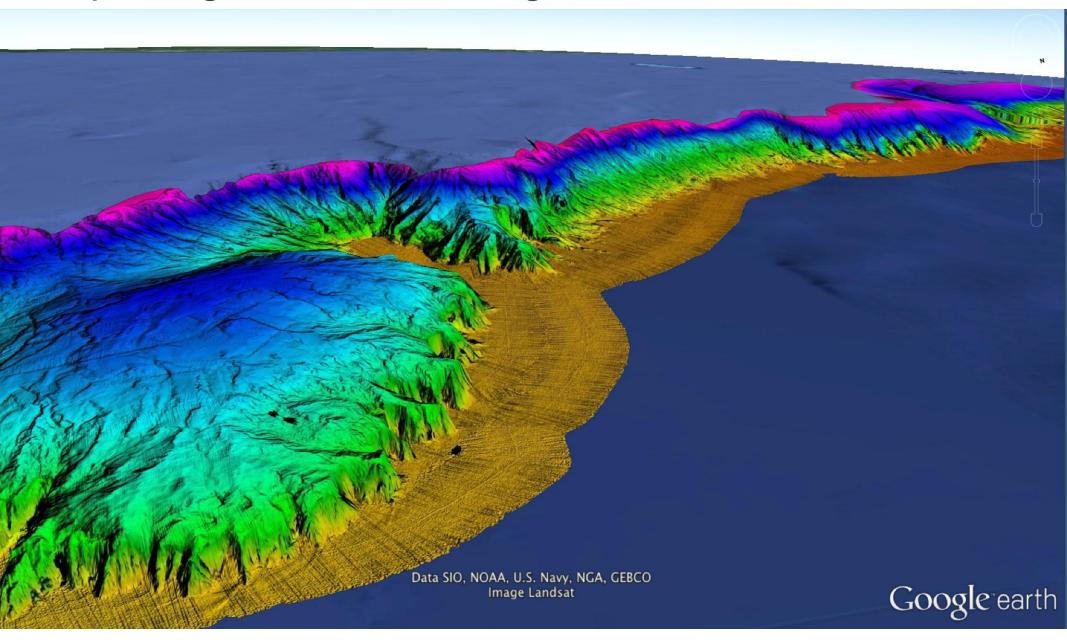


Build your own maps with Google Maps Engine

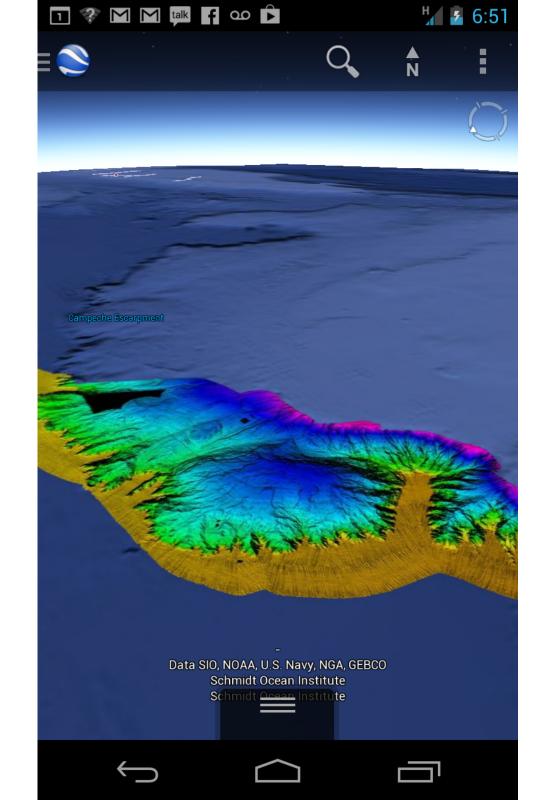


Schmidt Ocean Institute- MBARI: KT Boundary Gulf of Mexico Survey: understanding the asteroid impact that wiped out the dinosaurs: http://www.schmidtocean.org/story/show/1185.

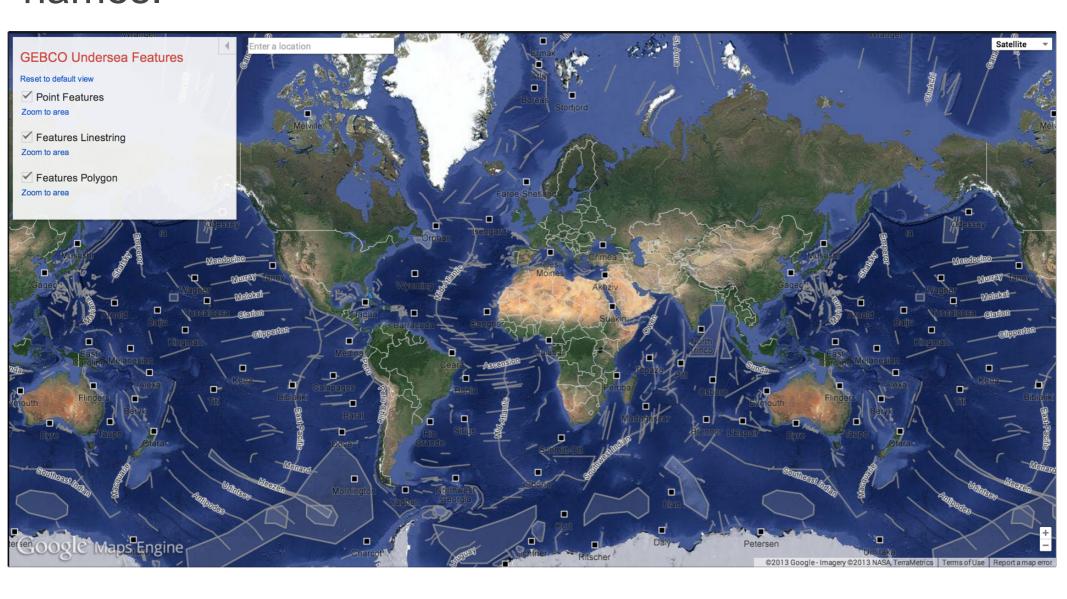
View your own terrain synthesis built with Google Maps Engine in 3d in Google Earth



Send to a mobile device



Publish to Maps Gallery: GEBCO undersea features names.



Google Maps Engine Grant.



Home Explore Tools Tutorials Success Stories Grants Resources

Software Grants Developer Grants



Google Earth Pro Google Maps Coordinate

Google Maps API for Business | Google Maps Engine

As a part of Google Earth Outreach, we grant Google Maps Engine licenses to qualifying organizations who demonstrate a need to host, style, manage and publish their geospatial data in the cloud. Google Maps Engine has a rich set of capabilities for cloud-hosted spatial data management, cartographic styling, publishing and access control.

Google Maps Engine is for organizations who have lots of raster and vector data and are excited to use the cloud-based infrastructure to store, process and publish this data. Set different access permissions for who can view, edit, or publish your map data.

Learn more about Google Maps Engine.

Before applying for a grant, make sure the product will meet your needs! Learn More



WWF and Eyes on the Forest use Maps Engine to show deforestation in Sumatra

Apply for a Grant

WWF and its Sumatran partner organization. Eves on the Forest, are using Google Maps Engine to document historical rates of deforestation in Sumatra and how the habitat of endangered tigers, rhinoceros and elephants are literally shrinking before our eyes.

"Google Maps Engine gives us the ability to take all this information that we have crammed into computers all over the world and to get it up on the cloud and to serve it up on a platform were people can ask for the information they want and use it to tell stories that are powerful." - Carter Roberts, CEO of WWF

Read the full case study

Google Maps Engine Grants accounts include:

- 10GB Storage quota for raster and vector datasets
- 250,000 internal pageviews
- 10 Million external pageviews for publishing data on public-facing websites
- · Technical Support (however, the support team will prioritize paying customers over grantees)

Eligibility and How to Apply

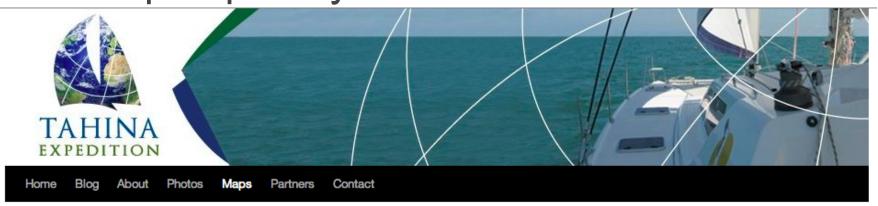
Nonprofits: All organizations must be able to provide proof of charitable tax-exempt status and meet our Policy Guidelines.

In the United States - Click "Apply for a Grant" above to apply for Google Maps Engine. It may take up to 3 months for your Maps Engine grant request to be reviewed.

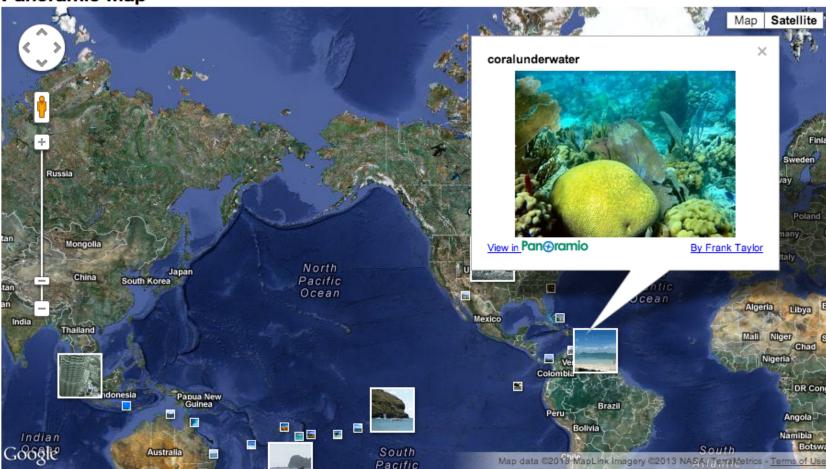
To be eligible for a grant, organizations must have current 501(c)(3) status, as assigned by the Internal Revenue Service and meet the other Google for Nonprofits eligibility requirements. Please click on the "Apply for a Grant" link above to apply.

Academic Research Departments: Academic faculty must be using the product for research purposes (not for teaching or classroom use - we are working on offering a

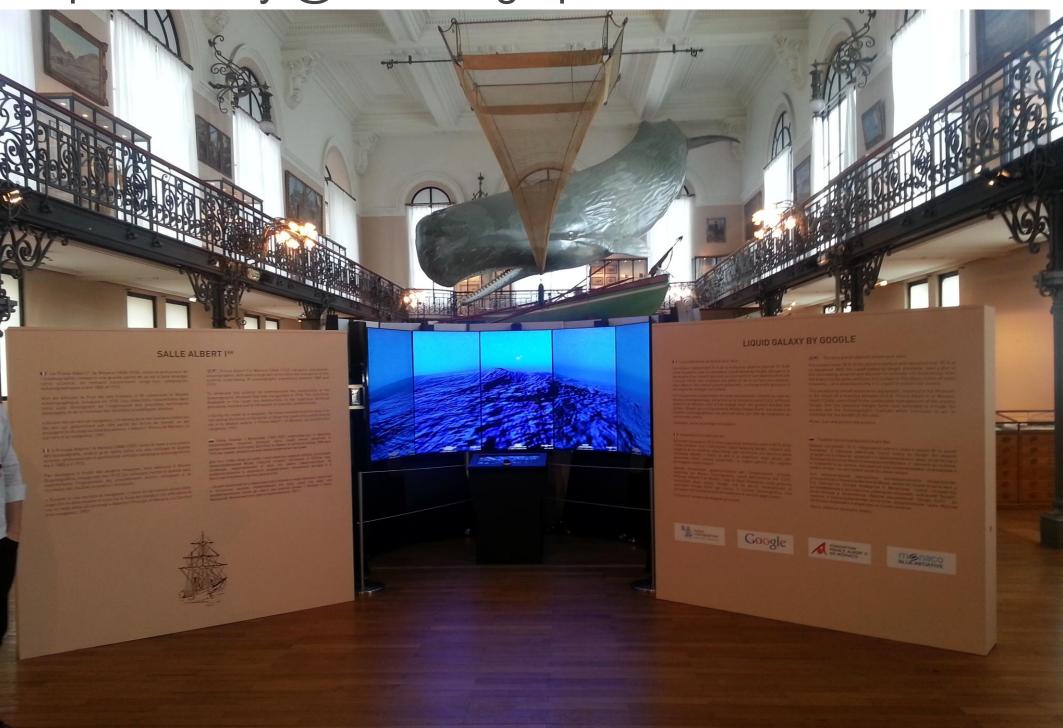
Embed maps api on your site.



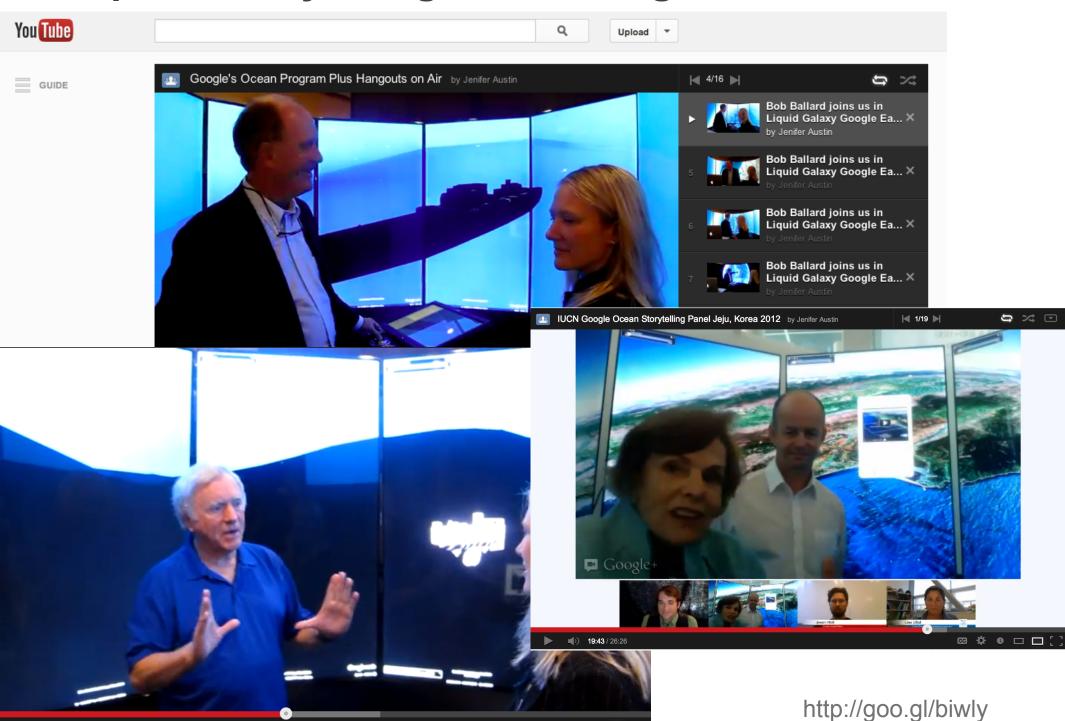
Panoramio Map



Liquid Galaxy @ Oceanographic Museum in Monaco



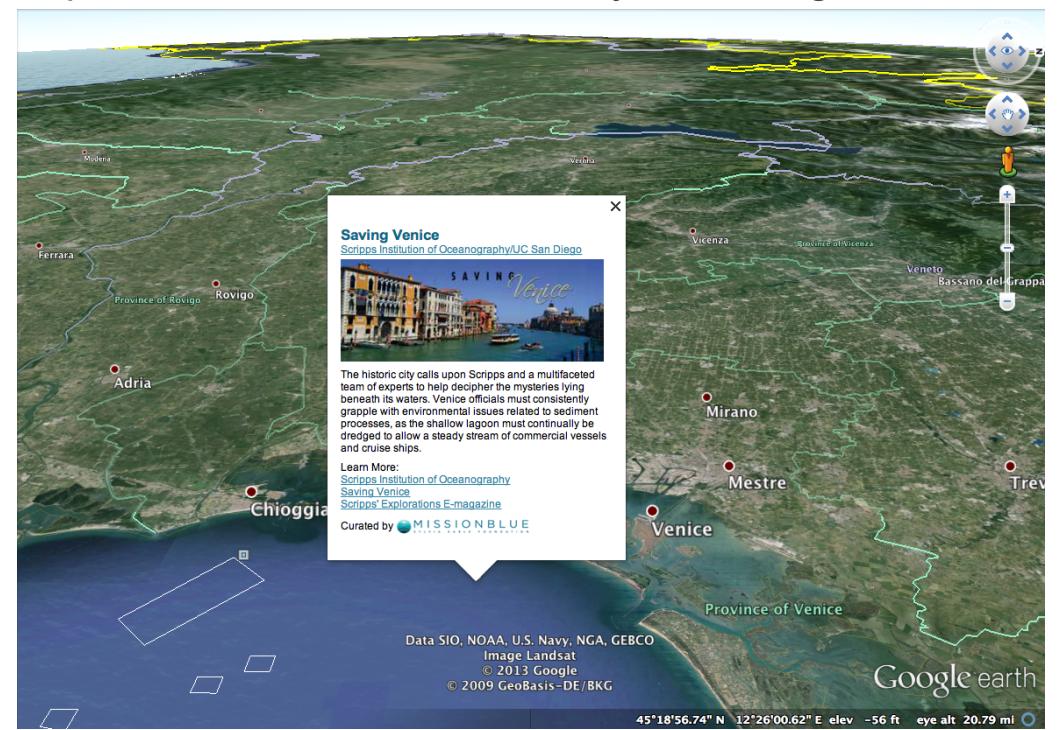
Liquid Galaxy Google Plus hangouts on Air



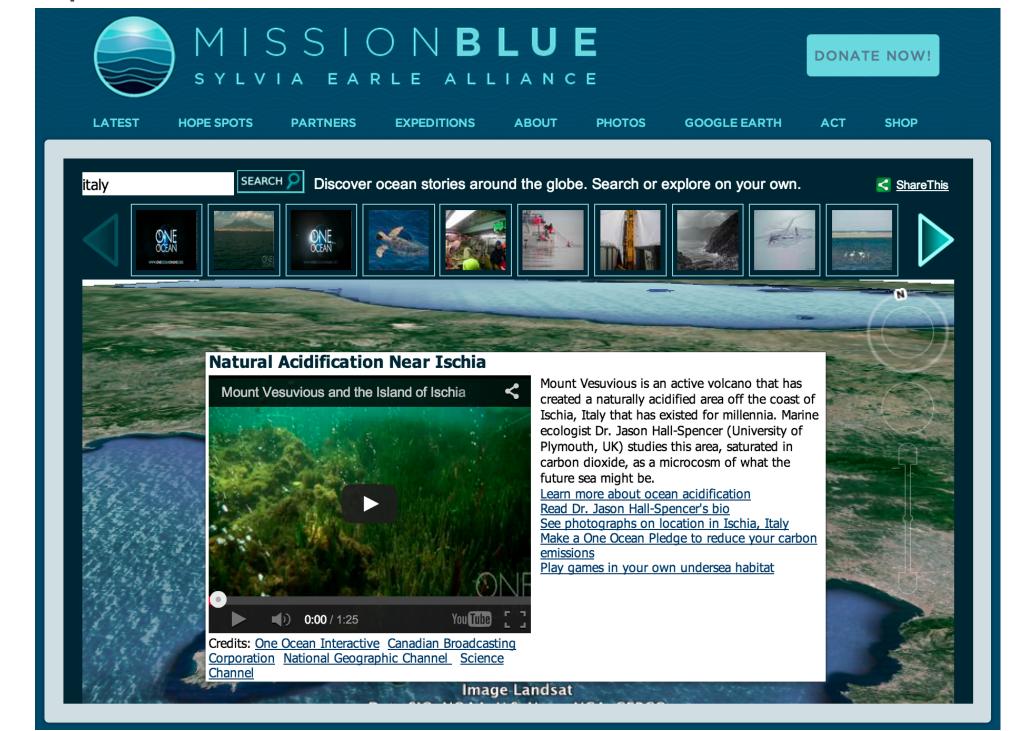
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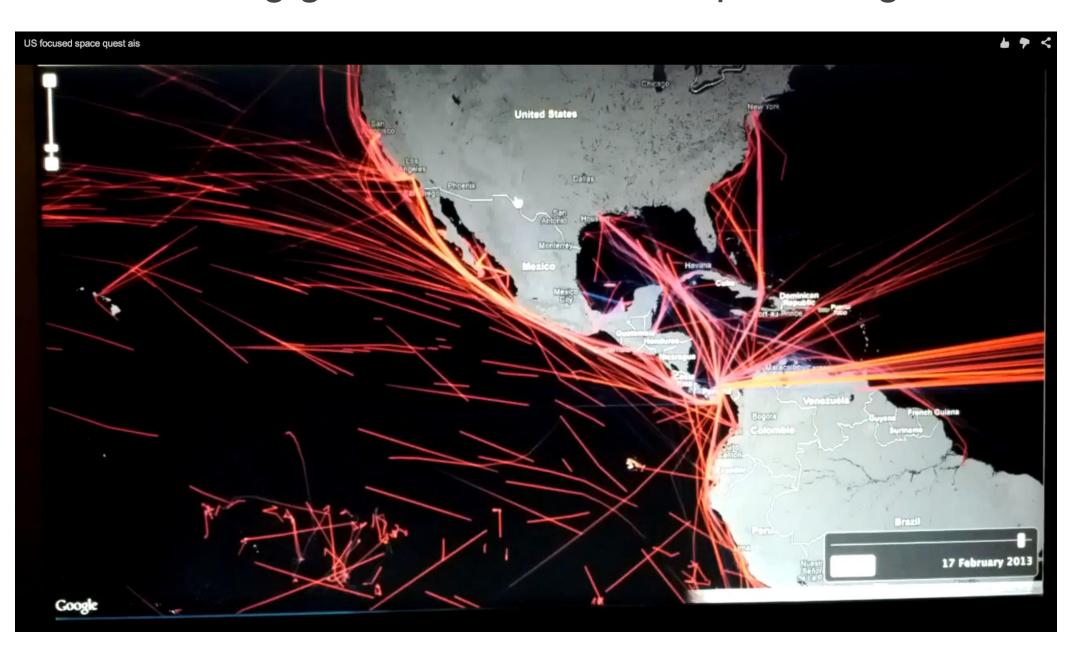
Explore the Ocean education layer in Google Earth.



Explore the Ocean education: Mission Blue site.



Cloud hosting global satellite AIS ship tracking data.



Spacequest.

Underwater Earth's Catlin Seaview Survey: Reveal the reefs.

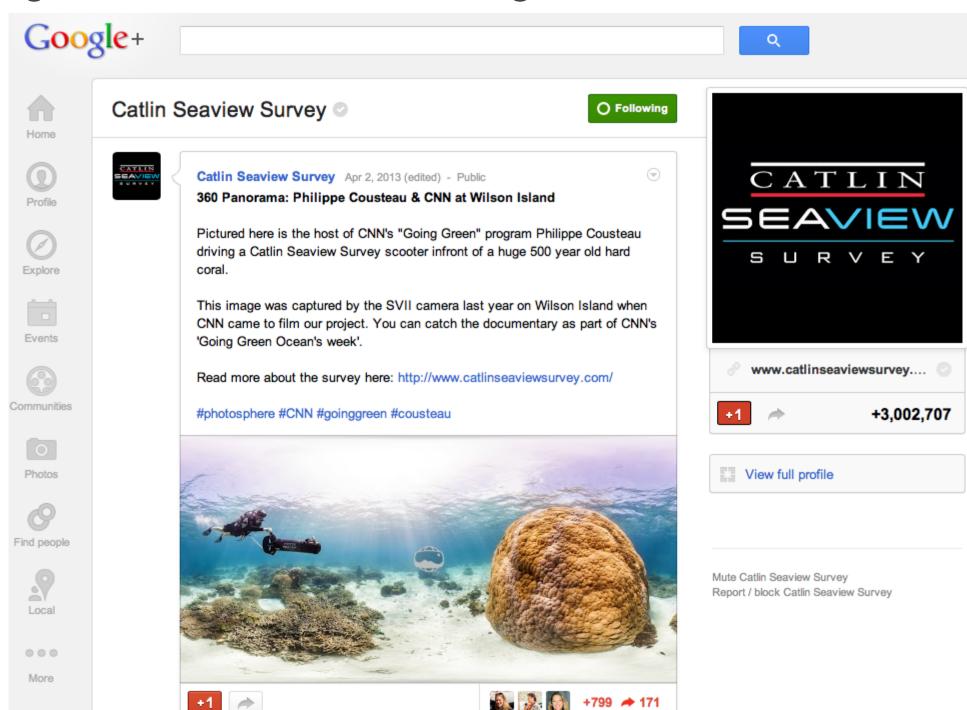






Underwater Streetview

Google Plus: 3 million following



Onward and downward.

