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Science!- life the universe and everything

- Earth science
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- Citizen science

NASA.gov- A quick look

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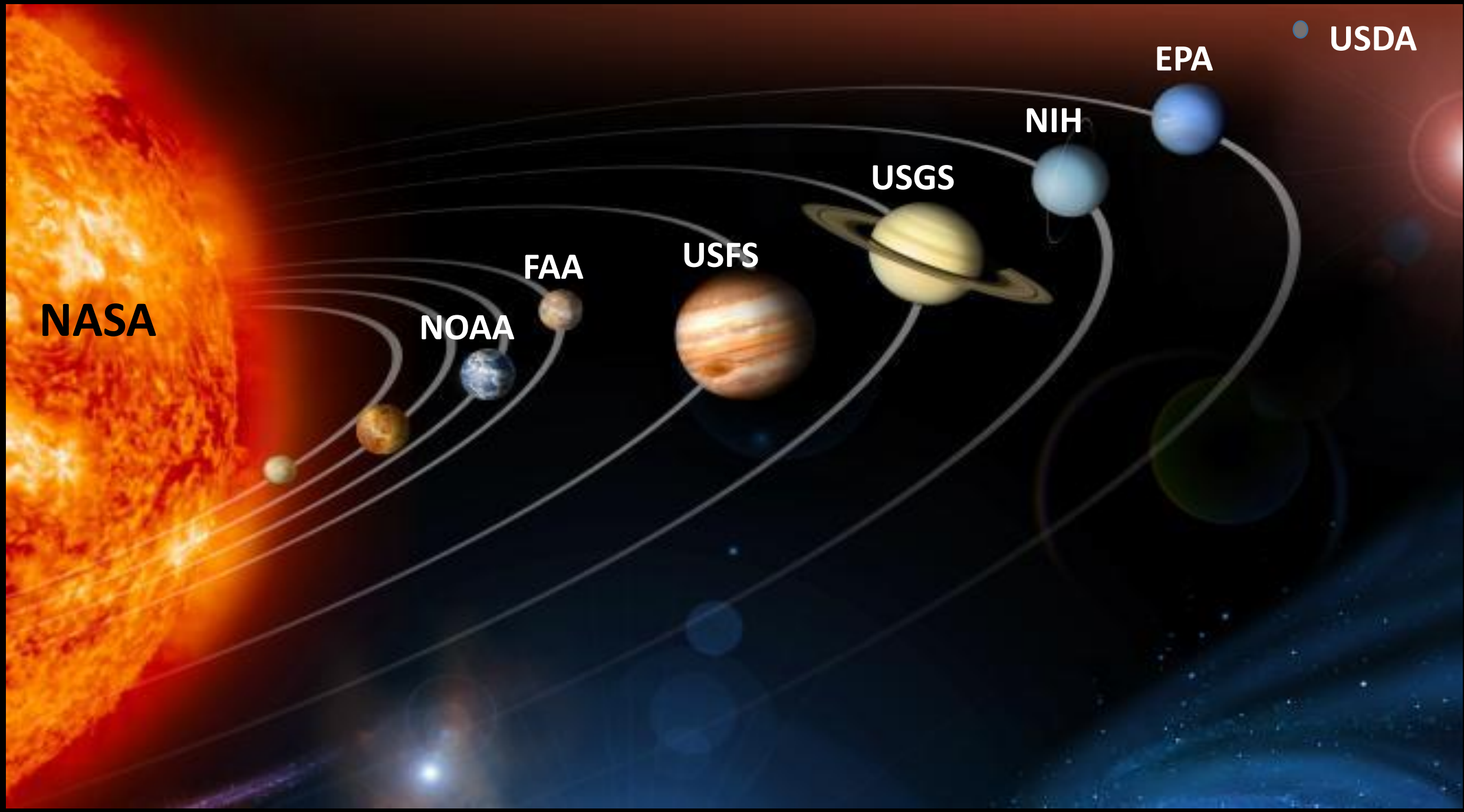
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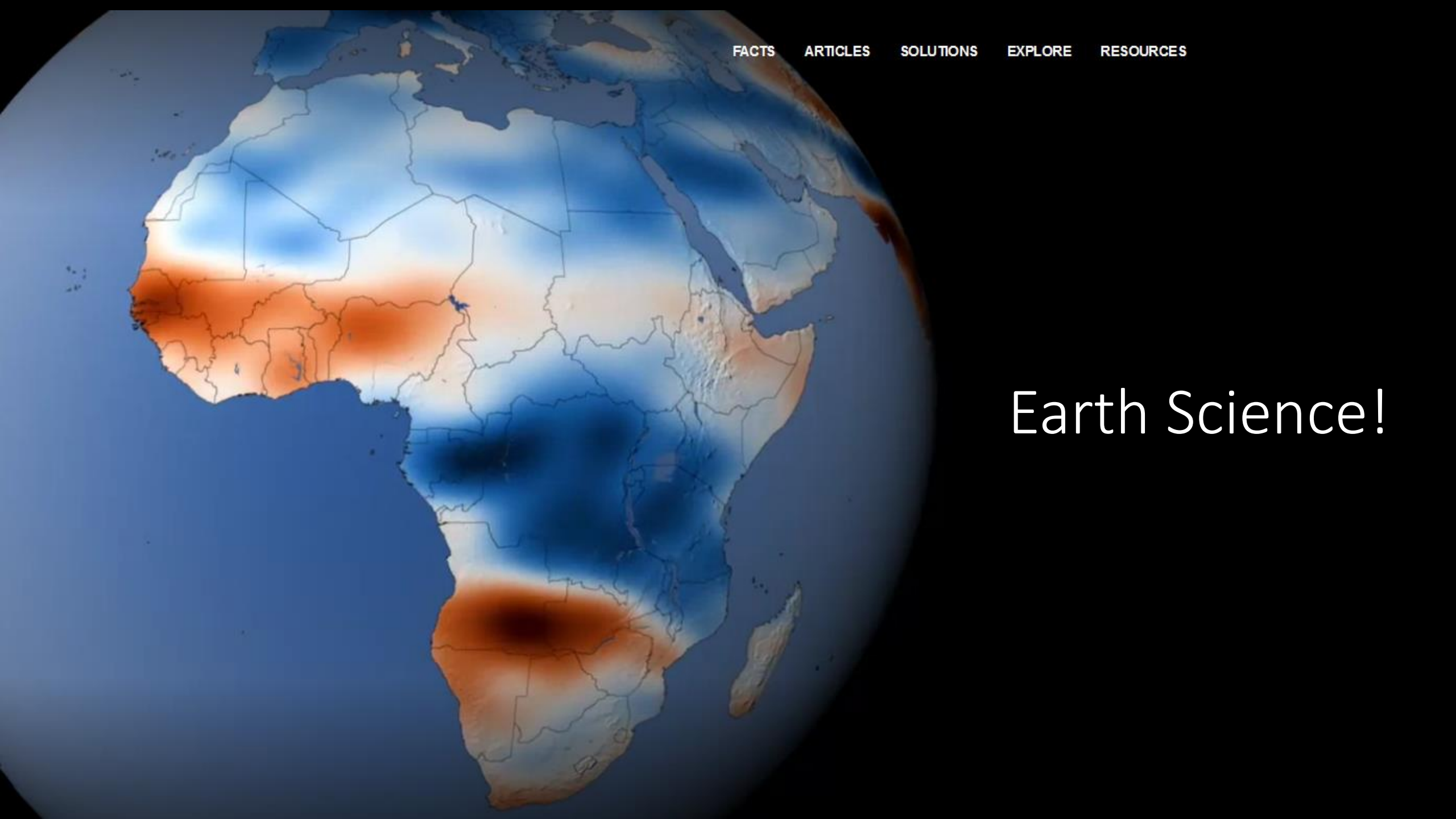

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- Treesearch

NOAA

- Science.gov

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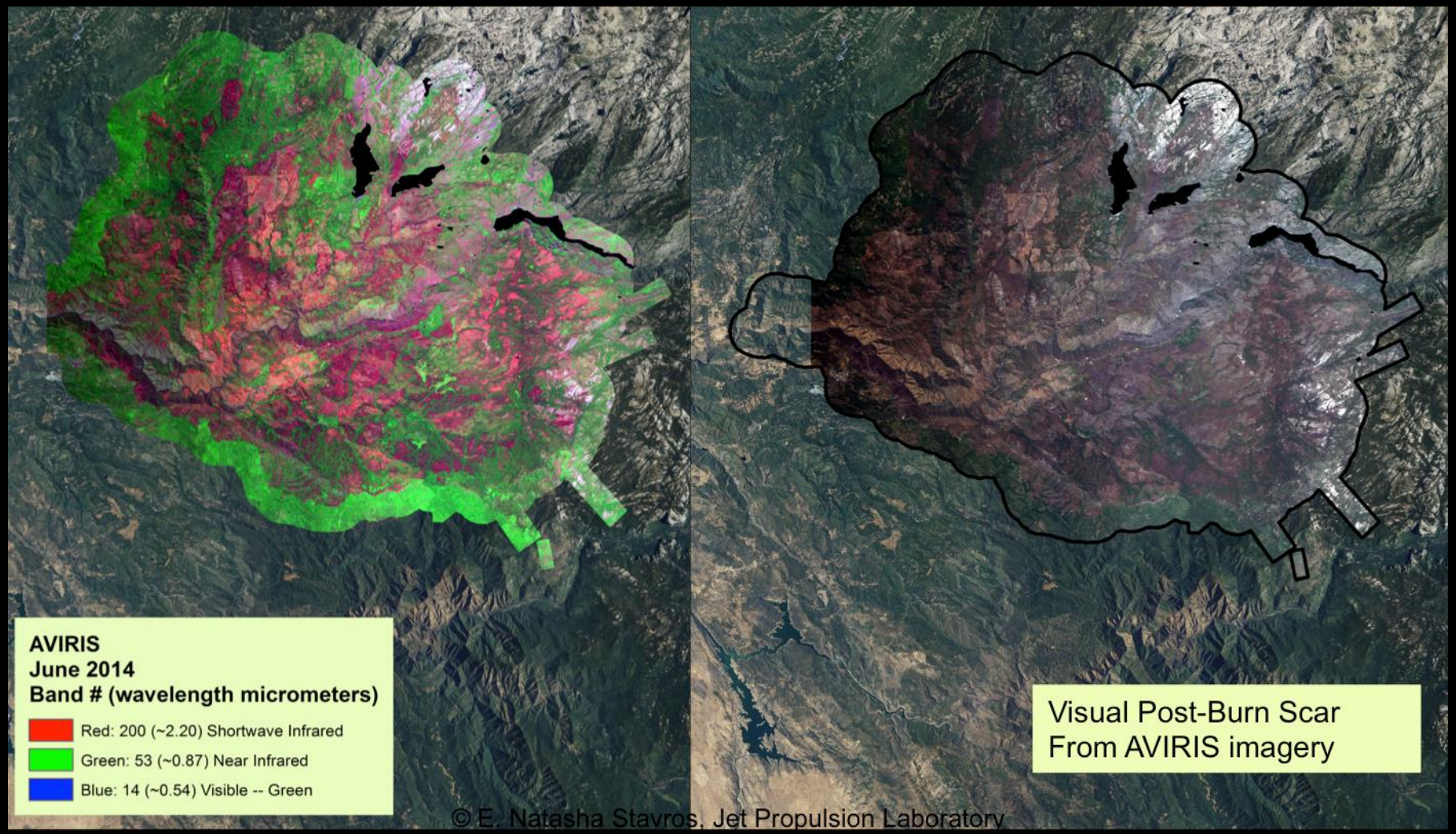
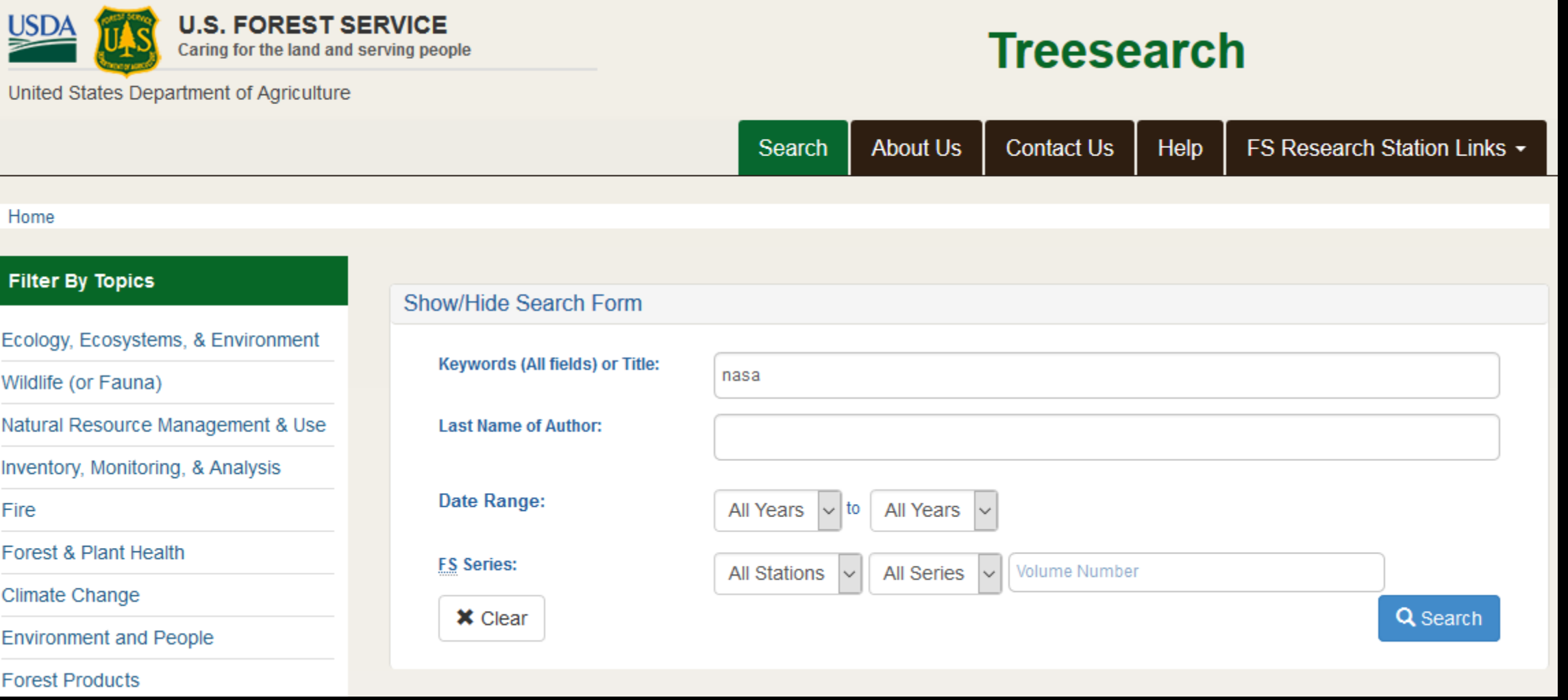
- AGRICOLA

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Scientific Journal (JRNL) (20)

General Technical Report (GTR) (11)

Miscellaneous Publication (10)

Proceedings (P) (3)

Abstract (2)

NASA Cold Land Processes Experiment (CLPX 2002/03): Airborne remote sensing

This paper describes the airborne data collected during the 2002 and 2003 Cold Land Processes Experiment (CLPX). These data include gamma radiation observations, multi- and hyperspectral optical imaging, optical altimetry, and passive and active microwave observations of the test areas. The gamma observations were collected with the NOAA/National Weather Service Gamma...

Author(s): Don Cline; Simon Yueh; Bruce Chapman; Boba Stankov; Al Gasiewski; Dallas Masters; Kelly Elder; Richard Kelly; Thomas H. Painter; Steve Miller; Steve Katzberg; Larry Mahrt

Year: 2009

Keywords: Cold Land Processes Experiment (CLPX), gamma observations, airborne hyperspectral optical data

Source: Journal of Hydrometeorology. 10(1): 338-346.

High spatial resolution satellite observations for validation of MODIS land products: IKONOS observations acquired under the NASA scientific data purchase.

Phase 1I of the Scientific Data Purchase (SDP) has provided NASA investigators access to data from four different satellite and airborne data sources. The Moderate Resolution Imaging Spectrometer (MODIS) land discipline team (MODLAND) sought to utilize these data in support of land product validation activities with a lbcus on tile EOS Land Validation Core Sites. These...

Author(s): Jeffrey T. Morisette; Jaime E. Nickeson; Paul Davis; Yujie Wang; Yuhong Tian; Curtis E. Woodcock; Nikolay Shabanov; Matthew Hansen; Warren B. Cohen; Doug R. Oetter; Robert E. Kennedy

Year: 2003

Keywords: MODIS, IKONOS, NASA

Source: Remote Sensing of Environment. 88: 100-110

Nationwide disturbance attribution on NASA's earth exchange: experiences in a high-end computing environment

The North American Forest Dynamics (NAFD) projectâ€™s Attribution Team is completing nationwide processing of historic Landsat data to provide a comprehensive annual, wall-to-wall analysis of US disturbance history, with attribution, over the last 25+ years. Per-pixel time series analysis based on a new nonparametric curve fitting algorithm yields several metrics useful...

Author(s): J. Chris Toney; Karen G. Schleeweis; Jennifer Dungan; Andrew Michaelis; Todd Schroeder; Gretchen G. Moisen

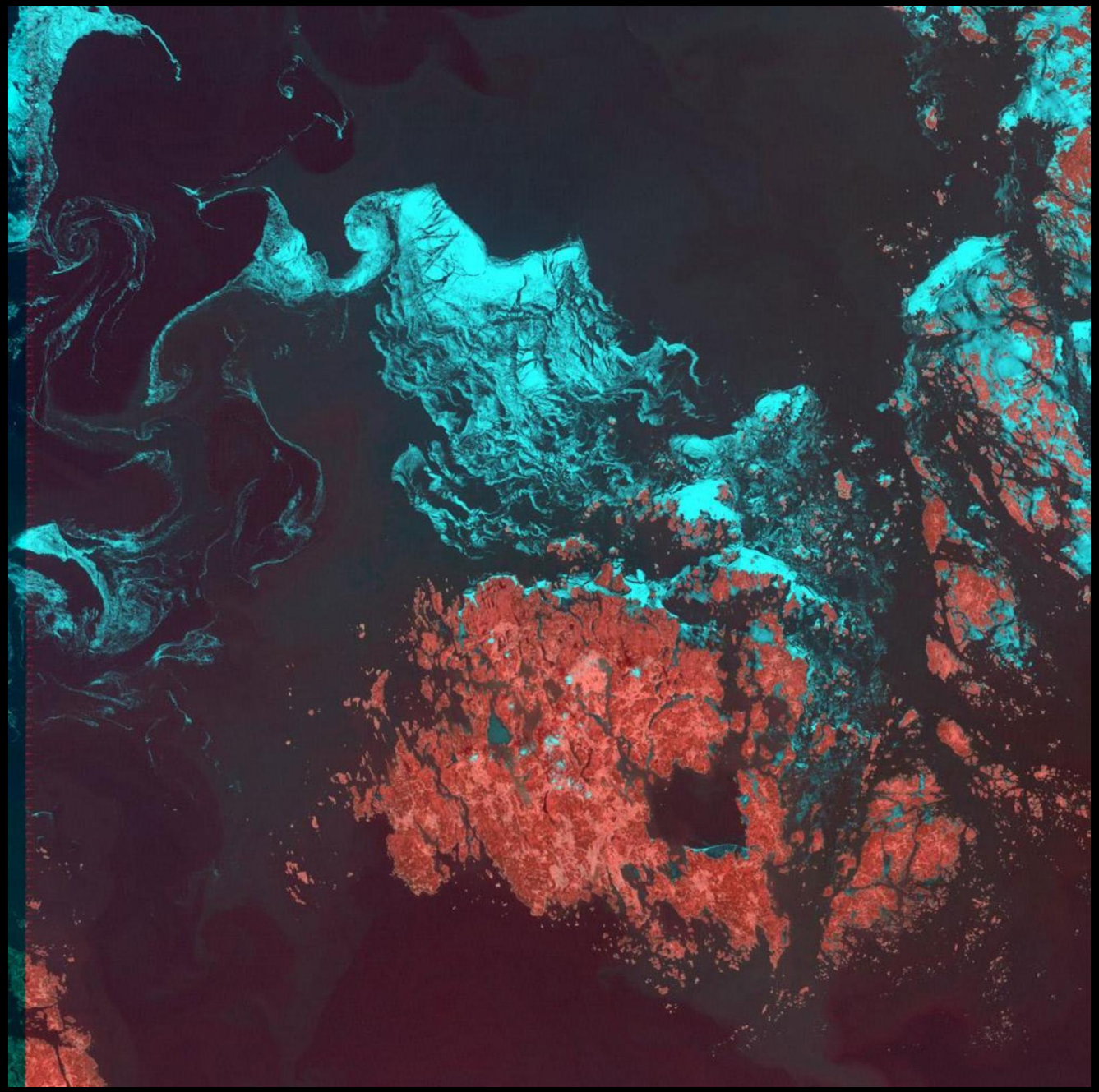
Year: 2015

Keywords:

Source: In: Stanton, Sharon M.; Christensen, Glenn A., comps. 2015. Pushing boundaries: new directions in inventory techniques and applications: Forest Inventory and Analysis (FIA) symposium 2015. 2015 December 8–10; Portland, Oregon. Gen. Tech. Rep. PNW-GTR-931. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. p. 240.

NASA Cold Land Processes Experiment (CLPX 2002/03): Field measurements of snowpack properties and soil moisture

USGS/ NASA



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2017 Landsat Science Team Summer Meeting Summary

Christopher J. Crawford, Thomas R. Loveland, Michael A. Wulder, James R. Irons

2018, The Earth Observer (30) 21-25

The summer meeting of the U.S. Geological Survey (USGS)-NASA Landsat Science Team (LST) was held June 11-13, 2017, at the USGS's Earth Resources Observation and Science (EROS) Center near Sioux Falls, SD. This was the final meeting of the Second (2012-2017) LST.1 Frank Kelly [EROS—Center Director] welcomed the attendees and...

Shaler: in situ analysis of a fluvial sedimentary deposit on Mars

Lauren Edgar, Sanjeev Gupta, David M. Rubin, Kevin W. Lewis, Gary A. Kocurek, Ryan Anderson, James F. Bell III, Gilles Dromart, Kenneth S. Edgett, John P. Grotzinger, Craig Hardgrove, Linda C. Kah, Richard A. LeVeille, Michael C. Malin, Nicholas Mangold, Ralph E. Milliken, Michelle Minitti, Marisa C. Palucis, Melissa Rice, Scott K. Rowland, Juergen Schieber, Kathryn M. Stack, Dawn Y. Sumner, Roger C. Wiens, Rebecca M.E. Williams, Amy J. Williams

2018, Sedimentology (65) 96-122

This paper characterizes the detailed sedimentology of a fluvial sandbody on Mars for the first time, and interprets its depositional processes and palaeoenvironmental setting. Despite numerous orbital observations of fluvial landforms on the surface of Mars, ground-based characterization of the sedimentology of such fluvial deposits has not previously been possible....

Community tools for cartographic and photogrammetric processing of Mars Express HRSC images

Randolph L. Kirk, Elpitha Howington-Kraus, Kenneth L. Edmundson, Bonnie L. Redding, Donna M. Galuszka, Trent M. Hare, K. Gwinner

B. Wu, K. Di, J. Oberst, I. Karachevtseva, editor(s)

2017, Conference Paper, Proceedings: 2017 international symposium on planetary remote sensing and mapping (Volume XLII-3/W1)

Getting Technical

Earth Sciences Division (Code 610)

STI | Scientific and Technical Information Program

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1. Intercomparison of Soil Moisture, Evaporative Stress, and Vegetation Indices for Estimating Corn and Soybean Yields Over the U.S.

Document ID: 20170005898
External Online Source: doi:10.1109/JSTARS.2016.2639338
Author: Mladenova, Iliana E.; Bolten, John D.; Crow, Wade T.; Anderson, Martha C.; Hain, C. R.; Johnson, David M.; Mueller, Rick
Abstract: This paper presents an intercomparative study of 12 operationally produced large-scale datasets ▶
Publication Year: 2017
Document Type: Journal Article
Report/Patent Number: GSFC-E-DAA-TN43592
Date Acquired: Jul 11, 2017

2. L-Band H Polarized Microwave Emission During the Corn Growth Cycle

Document ID: 20120009076
NTRS Full-Text: Click to View [PDF Size: 38 KB]
Author: Joseph, A. T.; va der Velde, R.; O'Neill, P. E.; Kim, E.; Lang, R. H.; Gish, T.
Abstract: Hourly L-band (1.4 GHz) horizontally (H) polarized brightness temperatures (T(sub B))'s measured ▶
Publication Year: 2012
Document Type: Conference Paper

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Intercomparison of Soil Moisture, Evaporative Stress, and Vegetation Indices for Estimating Corn and Soybean Yields Over the U.S.

External Online Source: doi:10.1109/JSTARS.2016.2639338

Author and Affiliation:

Mladenova, Iliana E. *(Maryland Univ., College Park, MD, United States)*

Bolten, John D. *(NASA Goddard Space Flight Center, Greenbelt, MD United States)*

Crow, Wade T. *(Department of Agriculture, Beltsville, MD, United States)*

Anderson, Martha C. *(Department of Agriculture, Beltsville, MD, United States)*

Hain, C. R. *(Maryland Univ., College Park, MD, United States)*

Johnson, David M. *(Department of Agriculture, Washington, DC, United States)*

Mueller, Rick *(Department of Agriculture, Washington, DC, United States)*

Abstract: This paper presents an intercomparative study of 12 operationally produced large-scale datasets describing soil moisture, evapotranspiration (ET), and or vegetation characteristics within agricultural regions of the contiguous United States (CONUS). These datasets have been developed using a variety of techniques, including, hydrologic modeling, satellite-based retrievals, data assimilation, and survey in-field data collection. The objectives are to assess the relative utility of each dataset for monitoring crop yield variability, to quantitatively assess their capacity for predicting end-of-season corn and soybean yields, and to examine the evolution of the yield-index correlations during the growing season. This analysis is unique both with regards to the number and variety of examined yield predictor datasets and the detailed assessment of the water availability timing on the end-of-season crop production during the growing season. Correlation results indicate that over CONUS, at state-level soil moisture and ET indices can provide better information for forecasting corn and soybean yields than vegetation-based indices such as normalized difference vegetation index. The strength of correlation with corn and soybean yields strongly depends on the interannual variability in yield measured at a given location. In this case study, some of the remotely derived datasets examined provide skill comparable to that of in situ field survey-based data further demonstrating the utility of these remote sensing-based approaches for estimating crop yield.

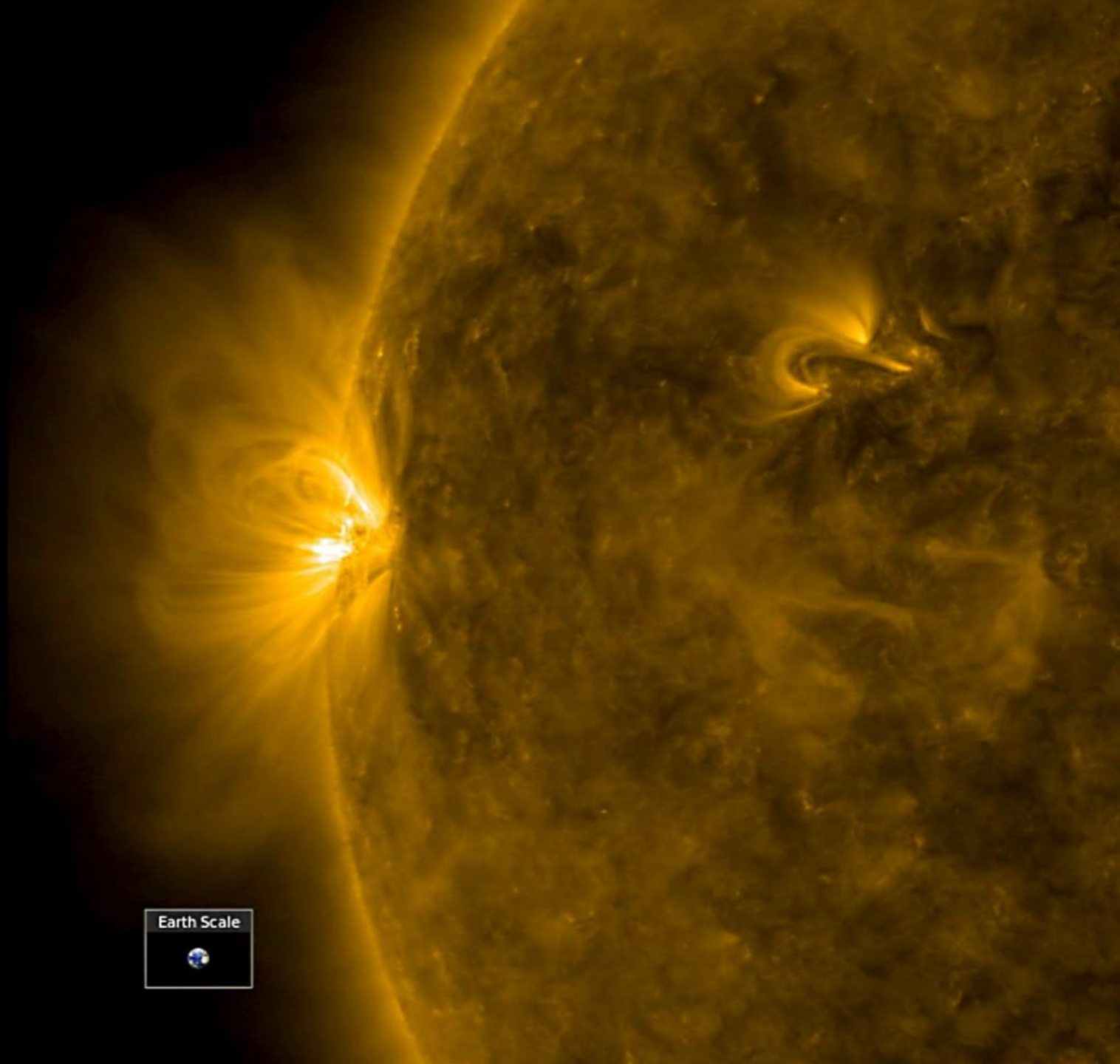
Publication Date: Apr 01, 2017

General Sources

- Data.gov
  33,956 datasets found for "nasa"

- Science.gov (pulls from PubMed, NTRS, NTIS, EPA, OSTI…)
  2593 top results from 1355683 found in all sources

Space



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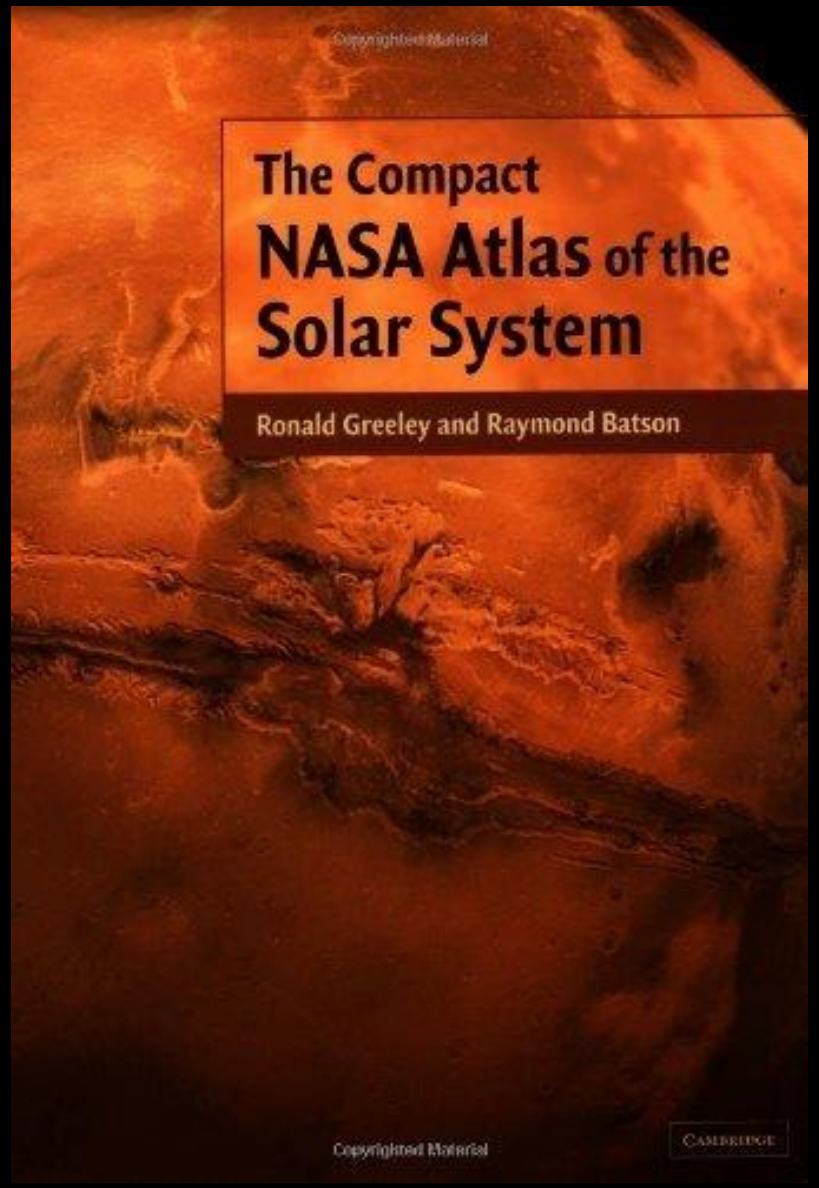

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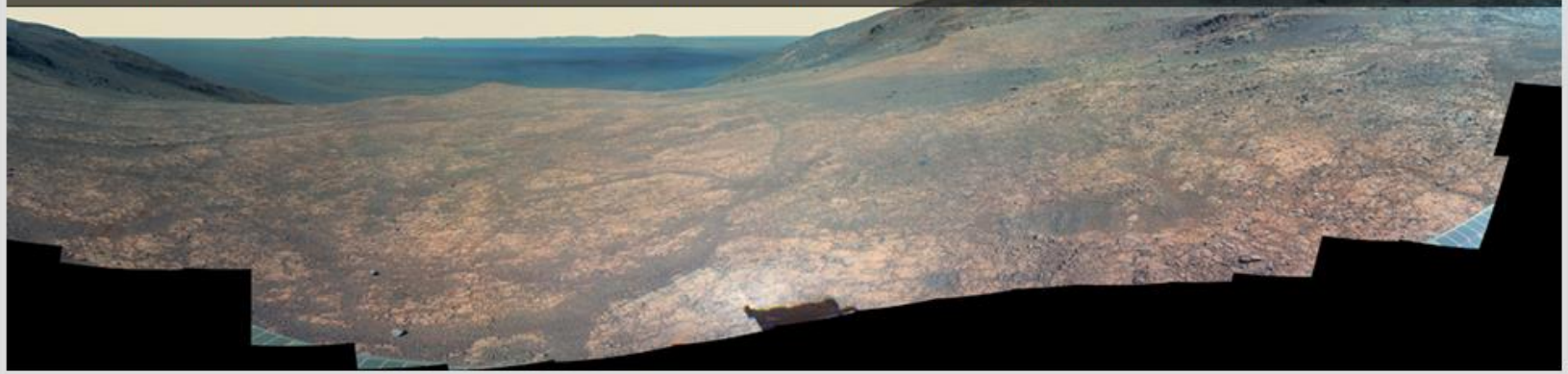
Mars Exploration Rover Opportunity Still Roving!

New findings from the Opportunity Rover in Marathon Valley (image credit: NASA/JPL-Caltech/Cornell Univ./ASU)



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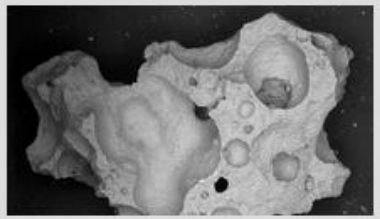

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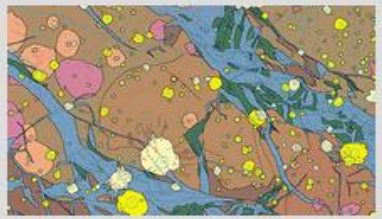

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After a steep drive Sol 2094, Curiosity is back over the crest of Vera…

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Sols 2093-2094: Feeling powerful

Today's 2-sol plan kicked off with the good news that our power…

25 June 2018 Astrogeology News

USGS New Director Visits Flagstaff Science Center

USGS employees at the Flagstaff Science Center met their new leader, USGS…

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Sun-starved Opportunity in 'coma' waiting out the storm

A massive Martian dust storm has prevented the solar-powered Opportunity…

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Mercury Cartographic Stats:
Equatorial Radius*: 2,440.53 km
Polar Radius*: 2,438.25 km
Max Elevation*: 4.6 km
Max Depression: 2.5 km
Right Ascension* (north pole): 281 deg
Declination* (north pole): 61.4 deg
Length of Day (sidereal): 58.63 days

Mercury Links:
Nomenclature: IAU* Gazetteer
Raw Spacecraft Imagery: PDS* PILOT

Mercury 5M GIS Conversion v2

application/zip 710 MB — *May 16 2016*

These polygons are beased on the original created 1:5M geologic maps for Mercury as published in the late 80's and early 90's as created by several authors. The original GIS conversion was completed…

Mercury MESSENGER MDIS Global Basemap BDR 166m (256ppd)

application/isis 4 GB — *May 06 2016*

The Map Projected Basemap RDR (BDR) data set consists of a global monochrome map of reflectance at a resoluti on of 256 pixels per degree (~166 m/p). This edition, version 1, was released May 6, 2016…

Mercury MESSENGER Global DEM 665m (64ppd) v2 Oct. 2016

application/isis 506 MB — *Oct 21 2016*

The MErcury Surface, Space ENvironment, GEochemistry, and Ranging (MESSENGER) spacecraft completed its mi ssion to acquire a rich variety of orbital data from the planet Mercury. Using the Integrated…

Mercury MESSENGER MDIS Basemap Enhanced Color Global Mosaic 665m (64ppd)

application/isis 759 MB — *May 13 2016*

This mosaic shows Mercury's surface in "enhanced color," a term used to describe a color scheme created to emph asize color differences on Mercury's surface. This is not what Mercury would look like…

Mercury MESSENGER MDIS Basemap MD3 Color Global Mosaic 665m (64ppd)

application/isis 759 MB — *May 13 2016*

This mosaic shows Mercury's colors as viewed by placing images from MESSENGER's 1000 nm, 750 nm, and 430 nm narrow-band filters in the red, green, and blue channel respectively. This is not what…

Mercury MESSENGER Global Colorized Shade 2km

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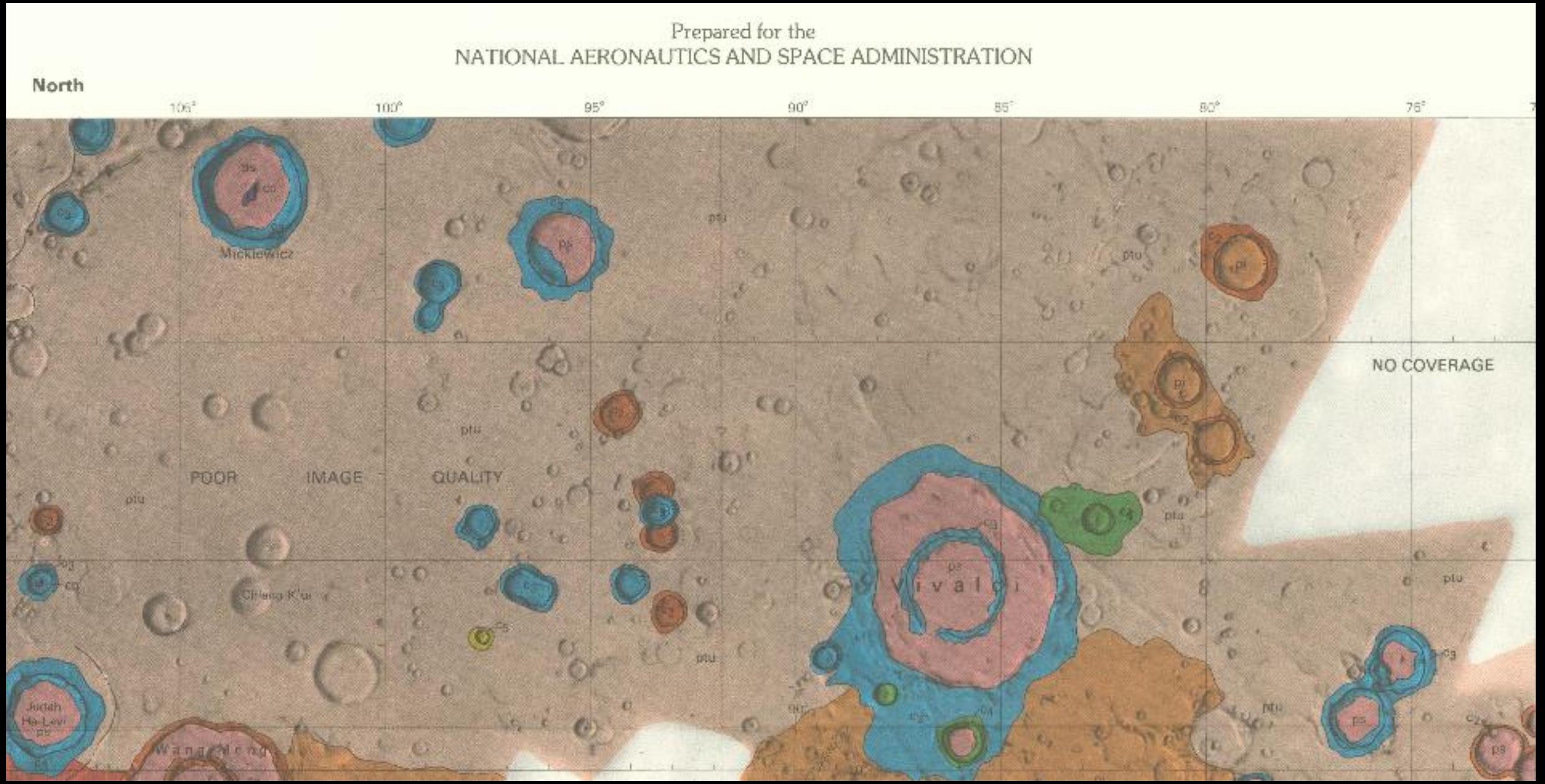
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



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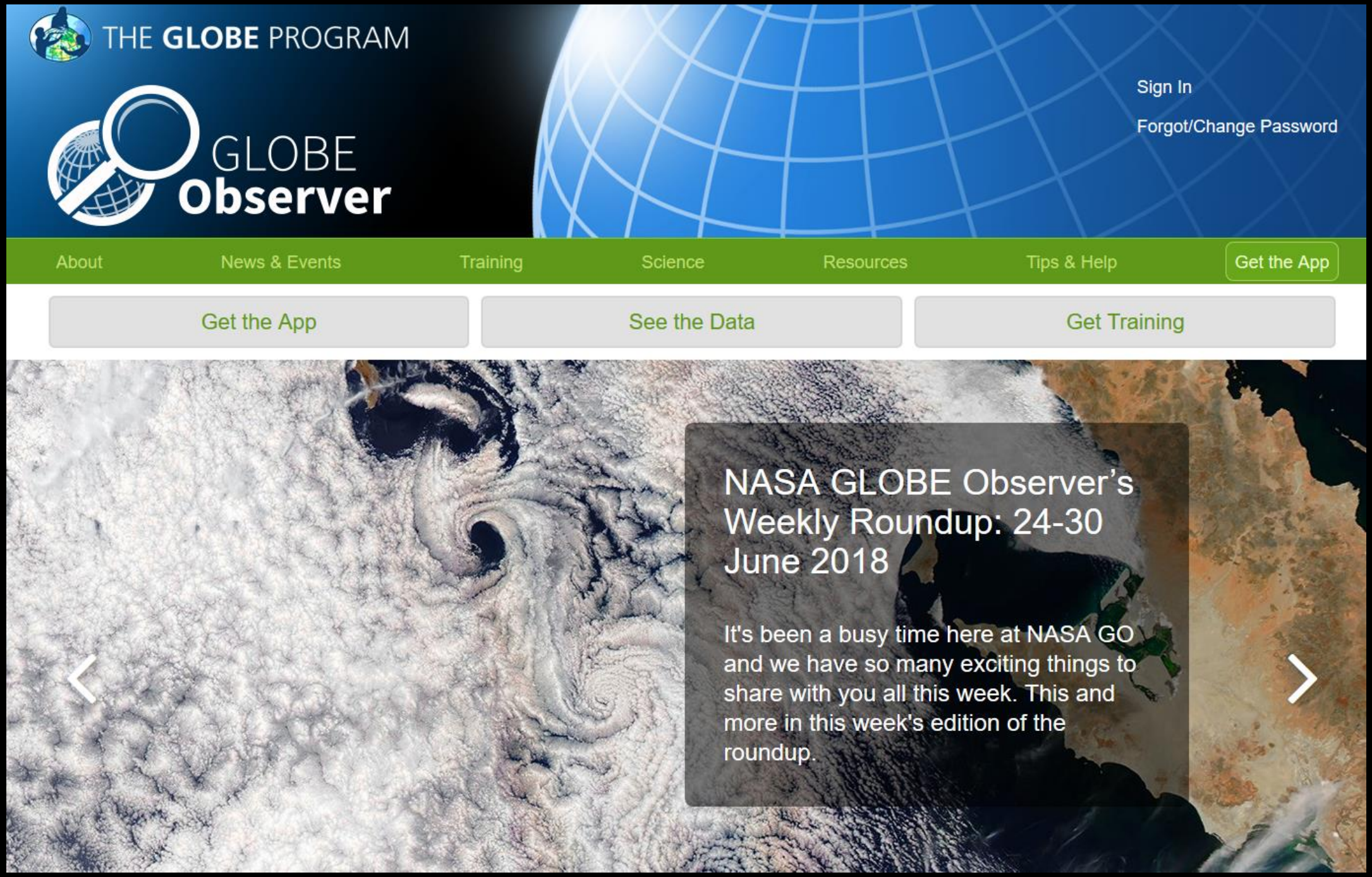
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NASA GLOBE Observer's Weekly Roundup: 24-30 June 2018
It's been a busy time here at NASA GO and we have so many exciting things to share with you all this week. This and more in this week's edition of the roundup.

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GSFC Citizen Science and Crowdsourcing

We are a community at Goddard Space Flight Center (GSFC) using the power of citizen science and crowdsourcing to advance innovative scientific discovery and science education. Projects at GSFC span the fields of astrophysics, earth science, heliophysics, and planetary science. The group was founded in 2015 and continues to grow.

Get Involved

1. We meet **every other week on Tuesdays at 12pm ET** (alternating teleconference and in-person meetings) to share news, discuss project updates, collaborate, and listen to guest speakers.
2. Subscribe to our Goddard-CrowdSci **mailing list** to send and receive community emails.
3. Send inquiries about this webpage or if you would like your project added/edited to Caroline Juang (617).

Resources

Other Citizen Science Communities:

- NASA Science Mission Directorate
- NASA Solve
- NASA Crowdsourcing Forum (INTERNAL ONLY)
- Federal Community of Practice for Crowdsourcing and Citizen Science
- Citizen Science Association
- SciStarter
- CosmoQuest
- Zooniverse

Federal Crowdsourcing and Citizen Science Catalog

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by National Aeronautics and Space Administration (NASA)

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by U.S. Environmental Protection Agency (EPA), National Aeronautics and Space Administration (NASA), National Oceanic and Atmospheric Administration (NOAA)

Disk Detective
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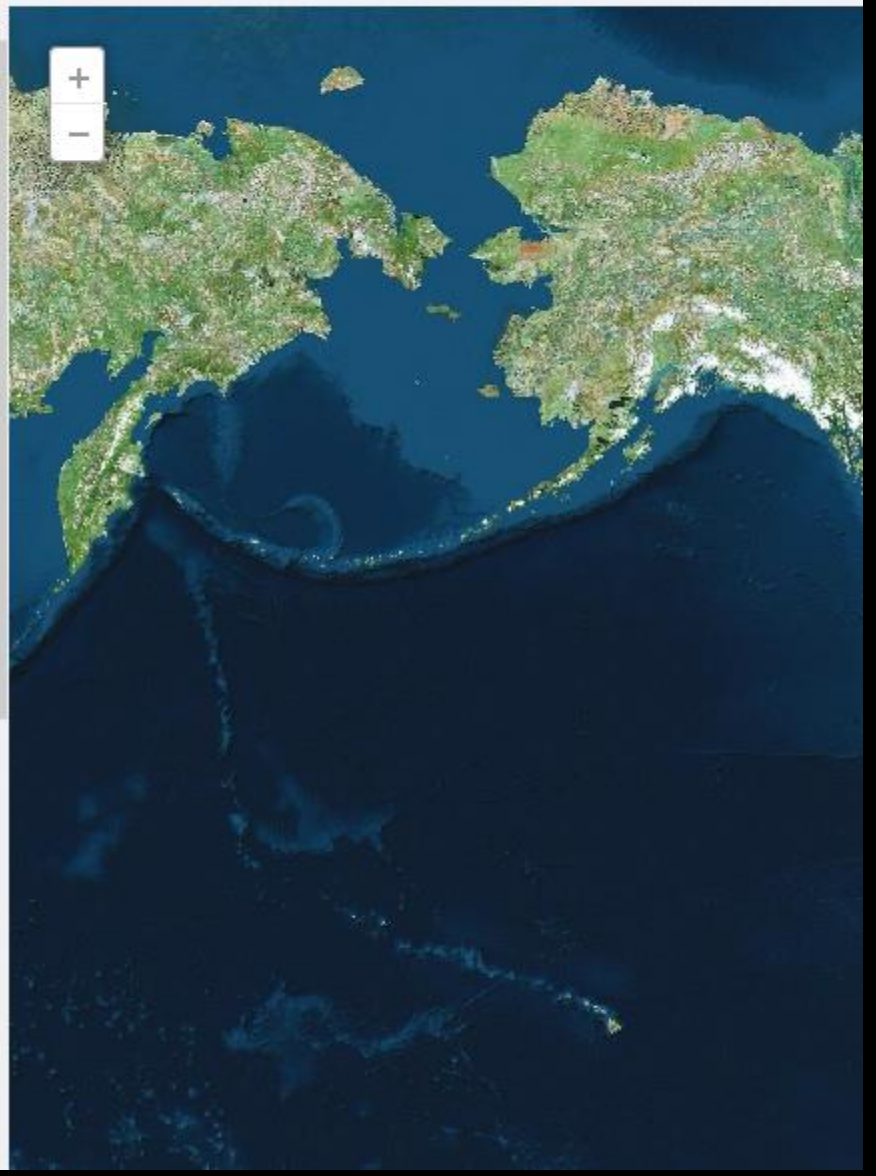
EcoCast: Improving Ecological and Economic Sustainability of Marine Fisheries Using Remotely-sensed



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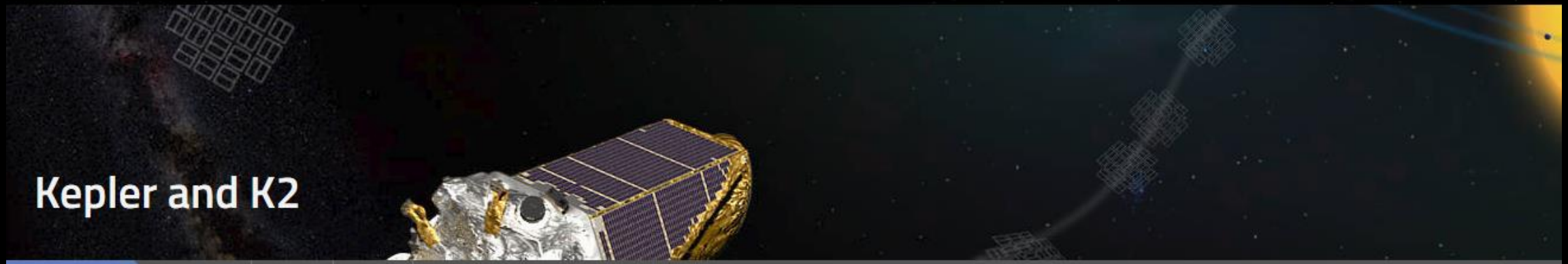
- Planet Hunters
- CosmoQuest



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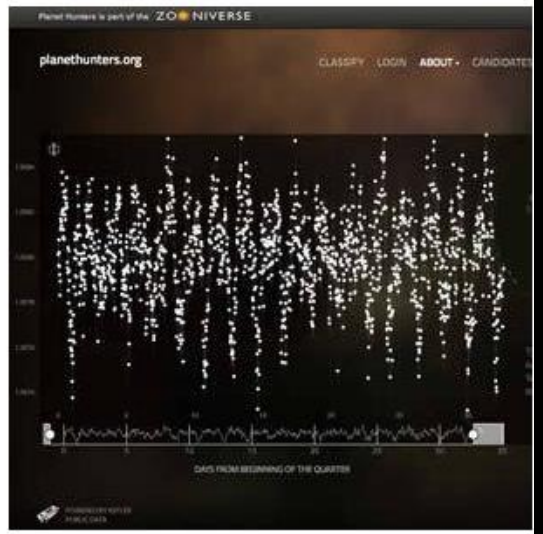
Kepler data for all the stars are processed at NASA Ames Research Center. The data can be accessed by anyone, including citizen scientists through the public Kepler data archives as well as the Planet Hunters citizen science project. For the benefit of more sophisticated researcher processing of Kepler data includes calibrating, removing bias (dark level) and smear (the photometer has no shutter) and converting values to fluxes. The multiple pixels making up a single star's point spread function (psf) is not combined, permitting users to perform their own photometry or other forms of analysis.

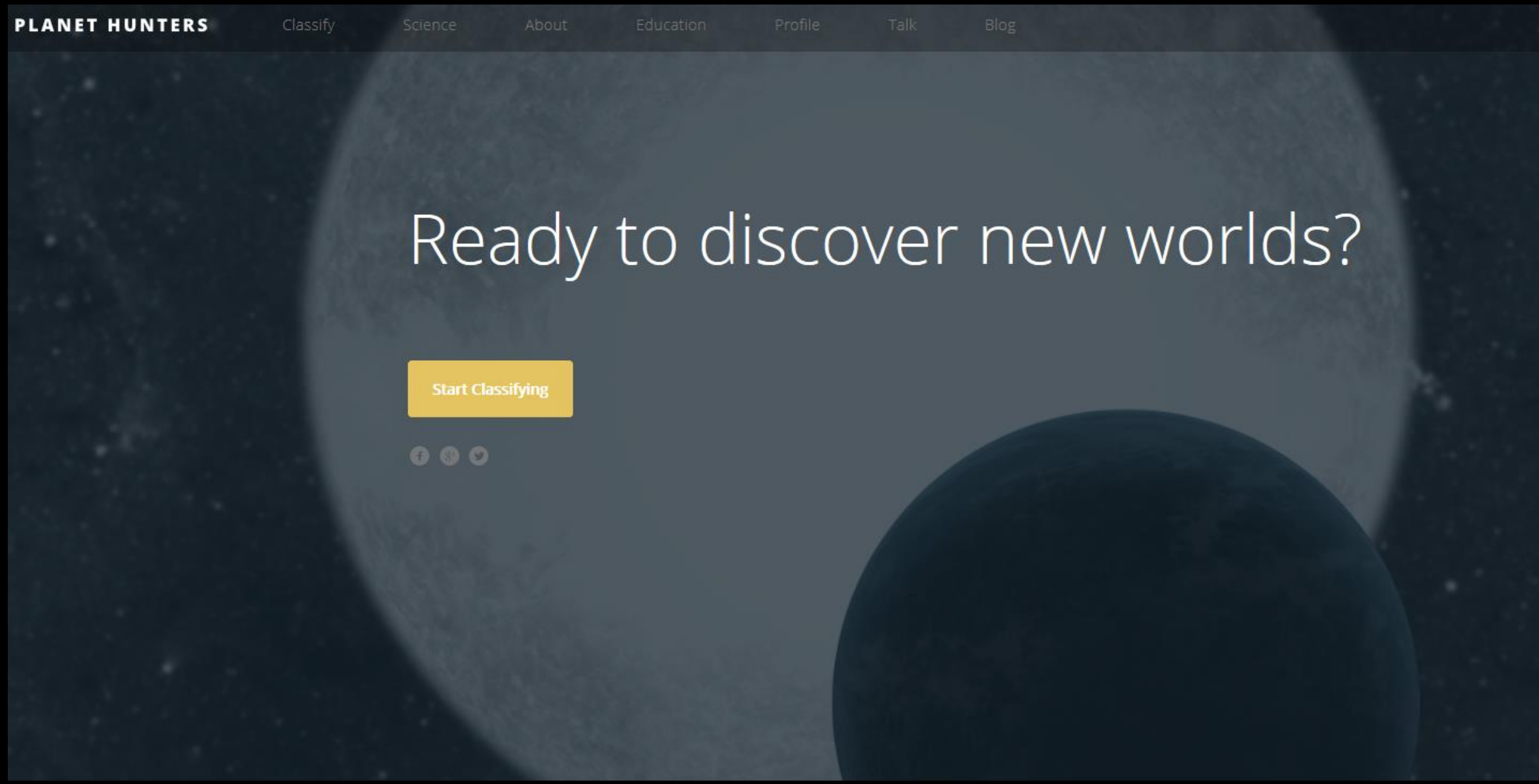


Planet Hunters

Participants searching for planets using Planet Hunters look at changes in star brightness using data collected by NASA's Kepler spacecraft, which has exquisite and unprecedented precision in detecting changes in brightness (photometry). As participants sort through the brightness data in the form of graphs of brightness vs time (known as light curves), they notice different patterns of variability. Much of the variability (on timescales of hours to days) may be caused by starspots or pulsations of different types of variable stars. Having Planet Hunters sort families of similar light curves is part of the important scientific research.

Public Kepler Data Archives

Ensemble-normalized light curves are produced and placed in the Mikulski Archive for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https://nasaviz.gsfc.nasa.gov/

Webliography on Astronaut Health: Science Education Resources

https://nnlm.gov/sites/default/files/shared/files/Class_Materials/Astro_Health_SciEdu_Webliography_4.docx

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Earth Science

USGS Publications Warehouse https://pubs.er.usgs.gov/search?q=nasa

NOAA Satellite imagery https://www.nesdis.noaa.gov/content/imagery-and-data

Treesearch (U.S. Forest Service) https://www.fs.usda.gov/treesearch/pubs/40027

Climate Science Primer https://www.fs.usda.gov/ccrc/

Earth Sciences Division (STI) https://science.gsfc.nasa.gov/sed/index.cfm?fuseAction=publications.main&navOrgCode=610

AGRICOLA (National Agriculture Library) https://agricola.nal.usda.gov/cgi-bin/Pwebrecon.cgi?DB=local&PAGE=bbSearch&STARTDB=AGRIDB

Space

DSCOVR: Deep Space Climate Observatory https://www.nesdis.noaa.gov/content/dscovr-deep-space-climate-observatory

Space Weather Prediction Center https://www.swpc.noaa.gov/

Space Weather Enthusiasts Dashboard https://www.swpc.noaa.gov/communities/space-weather-enthusiasts

Webliography on Astronaut Health: Science Education Resources
https://nnlm.gov/sites/default/files/shared/files/Class_Materials/Astro_Health_SciEdu_Webliography_4.docx

USGS Astrogeology Science Center https://astrogeology.usgs.gov/solar-system/mars

Citizen Science- Earth

- Earth
  - GLOBE Observer https://observer.globe.gov/
  - Federal Crowdsourcing and Citizen Science Catalog https://ccsinventory.wilsoncenter.org/

Space

  - Resources for Citizen Scientists: https://www.nasa.gov/kepler/education/citizen
  - Planet Hunters https://www.planethunters.org/
  - CosmoQuest https://cosmoquest.org/x/?application=mars_simply_craters

Uh Oh!

We're not quite certain what has happened, but we think The Great Galactic Ghoul has eaten what you were looking for.

In 1965, JPL Engineer, John Casani, jokingly came up with the idea of the Ghoul when a reporter asked him why many Soviet spacecraft were failing to reach Mars. The Ghoul came to be known as the Great Galactic Ghoul and lived on in infamy.