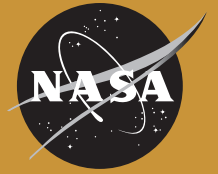


National Aeronautics and
Space Administration



NASA's Science Support Office



20
23
Annual Report

Our Mission

Bringing NASA Science to the World

With more than 30 years of history and experience, NASA's Science Support Office has established a well-deserved reputation as the primary point of contact for the Science Mission Directorate and Earth Science Division for science exhibit outreach and product development. The office brings together a unique skill set in "one team" that enables the successful conception, planning, design, and delivery of small- and large-scale exhibit support services.

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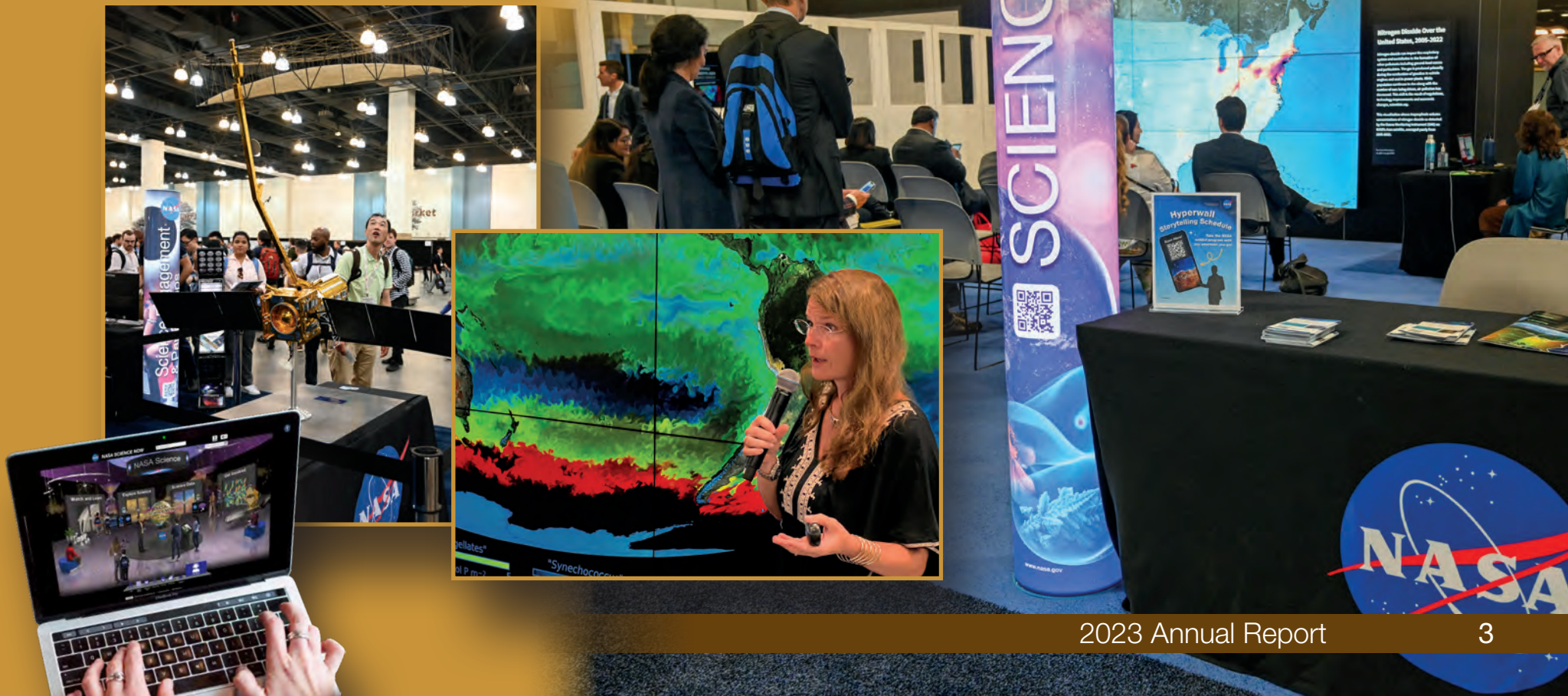
Our Goals

Provide an inspiring and interactive venue, using a unique storytelling approach, that allows a variety of audiences worldwide to connect with NASA Science, offering:

- Opportunities for individuals to engage face-to-face or virtually with NASA science experts;
- Access to free and accurate scientific information related to NASA missions, research topics, and scientific discoveries; and
- Unique visual scientific perspectives via stunning imagery and other creative multimedia content (e.g., Hyperwall, Dynamic Planet).

Audiences

- Scientists and engineers (e.g., government, academia)
- Students, professors, and teachers
- Policy and decision makers
- Non-governmental organizations, Industry
- General public (e.g., learners of all ages, citizen scientists)



Meet the Team

Science Support Office

*Number of years indicates
cumulative years on the team.*



Dalia Kirshenblat
Outreach Coordinator and Writer
1 Year



Xavier Williamson
Project Coordinator
1 Year



Michael Marosy
Graphic Designer
1 Year



Mark Malanoski
Senior Exhibit Multimedia Specialist
18 Years



Marit Jentoft-Nilsen
*Senior Data
Visualizer/Programmer*
18 Years



Steven Graham
Manager
26 Years



Heather Hanson
Deputy Manager
12 Years



Douglas Bennett
Senior Outreach Coordinator and Writer
12 Years



Nathan Marder
Hybrid Event Coordinator
2 Years



Kevin Miller
Senior Graphic Designer
14 Years



Amy Moran
Senior Data Visualizer/Animator
8 Years



Alan Ward
Senior Science Writer
22 Years



Kevin Durham
Senior Science Exhibition Specialist
6 Years



Ryan Barker
Warehouse Manager
15 Years



2022/2023 Conferences and Events

2022

October

November

December

2023

January

Precipitation Measurements Mission (PMM) Science Team Meeting
Virtual, October 3, 2022

Conference of the Parties/ UNFCCC (COP27)
Sharm el-Sheikh, South Sinai, Egypt, November 7-18, 2022

American Geophysical Union (AGU) Fall Meeting
Chicago, IL and Virtual, December 12-16, 2022

241st American Astronomical Society (AAS) Annual Meeting,
Seattle, WA
January 8-12, 2023

Geological Society of America (GSA) Annual Meeting
Denver, CO
October 9-12, 2022

American Society for Gravitational and Space Research (ASGR)
Houston, TX,
November 9-12, 2022

National Science Teaching Association (NSTA) Annual Conference

103rd American Meteorological Society (AMS) Annual Meeting,
Denver, CO
January 8-12, 2023

Pecora 22,
Denver, CO
October 23-27, 2022

Super Computing
Dallas, TX,
November 14-17, 2022

American Geophysical Union Fall Meeting (AGU)

Super Computing

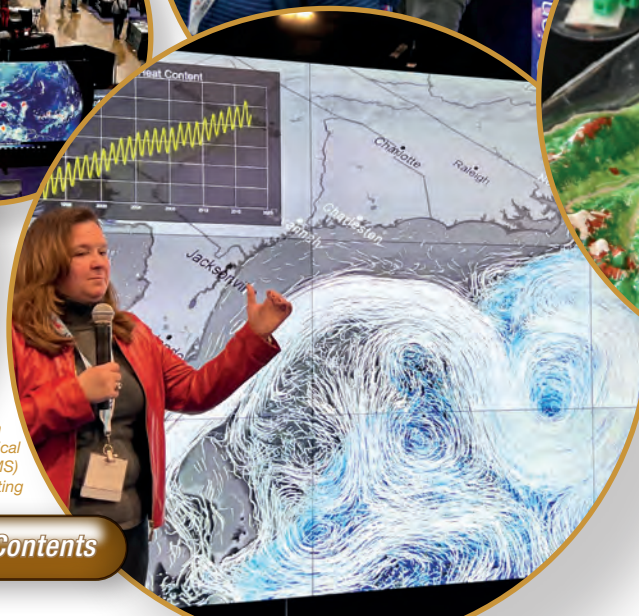
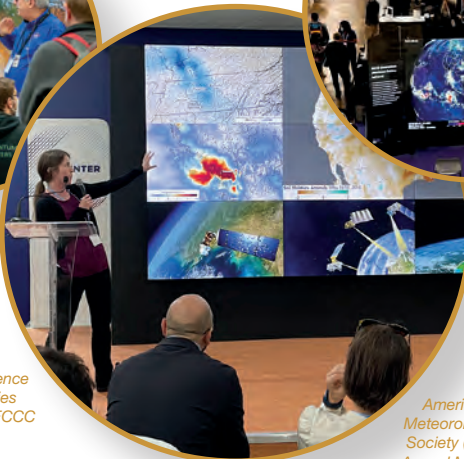
Geological Society of America (GSA) Annual Meeting

Japan Geoscience Union (JpGU)

27th Conference of the Parties (COP27)/UNFCCC

American Meteorological Society (AMS) Annual Meeting

American Library Association (ALA) Annual Conference



October 1, 2022 - September 30, 2023

February

March

April

May

June

July

August

September

American Association for the Advancement of Science (AAAS) Annual Meeting,
Washington, DC
March 2-5, 2023

Commodity Classic,
Orlando, FL and Virtual
March 9-11, 2023

National Science Teaching Association (NSTA) Annual Conference
Atlanta, GA,
March 23-26, 2023

Earth Day
Washington, DC
and Virtual,
April 20-21, 2023

European Geosciences Union (EGU)
Vienna, Austria,
April 23-28, 2023

VVIP Event at Goddard Space Flight Center

Digital Learning Week
Virtual,
May 8-12, 2023

American Thoracic Society
Washington, DC,
May 19-24, 2023

Japan Geoscience Union (JpGU)
Makuhari, Chiba, Japan,
May 21-25, 2023

NASA Day on the Hill
Washington, DC,
June 7, 2023

NASA Earth Information Center Unveiling
Virtual,
June 21, 2023

American Library Association (ALA) Annual Conference,
Chicago, IL,
June 22-27, 2023

International Union of Geodesy and Geophysics (IUGG)
Berlin, Germany,
July 13-17, 2023

International Geoscience and Remote Sensing Symposium (IGARSS)
Pasadena, CA,
July 16-21, 2023

Office of Small Business Programs (OSBP)
Virtual,
July 20, 2023

Asia Oceania Geosciences Society (AOGS)
Singapore,
July 30-
August 4, 2023

Small Satellite Conference
Logan, UT,
August 5-10, 2023

Ecological Society of America (ESA) Annual Meeting
Portland, OR,
August 6-11, 2023

NASA XD Geoengineering
Virtual,
August 9, 2023

American Chemical Society (ACS) Fall Meeting
San Francisco, CA,
August 13-17, 2023

Next Gen STEM Back to School
Virtual,
September 28, 2023



International Geoscience and Remote Sensing Symposium (IGARSS)



241st American Astronomical Society (AAS) Meeting



Digital Learning Week



American Chemical Society (ACS) Fall Meeting



NASA Day on the Hill

American Association for the Advancement of Science (AAAS) Annual Meeting



Earth Day

Partnerships

Our goal is to effectively strengthen existing partnerships (both internal and external) to achieve NASA's goals in the areas of science engagement and communication (i.e., encourage STEM and improve U.S. scientific literacy).

- **Within NASA** — *Scientific Visualization Studio (SVS), NASA Centers, Missions, Programs, Office of International and Interagency Relations (OIIR), NASA Grantees*
- **Scientists** — *All Centers as well as external, e.g., academia*
- **Other Federal Agencies** — *National Oceanic and Atmospheric Administration (NOAA), Department of State (DoS), United States Geological Survey (USGS)*
- **Science Professional Non-Profit Organizations** — *American Geophysical Union (AGU), Michael Freilich Student Visualization Storytelling Competition, AGU/NASA/StoryCorps Narratives Project*
- **International Partners** — *Japan Aerospace Exploration Agency (JAXA), European Space Agency (ESA), European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT), and Scientific Professional Organizations, e.g., European Geosciences Union (EGU), Asia Oceania Geosciences Society (AOGS), Japan Geoscience Union (JpGU)*

NEW Hyperwall Working Group Established

In January 2023, the Science Support Office and Scientific Visualization Studio (SVS) established a NASA Hyperwall Working Group, which includes the following individuals: Steve Graham, Heather Hanson, Marit Jentoft-Nilsen, Dalia Kirshenblat, Mark Malanoski, Nathan Marder, Amy Moran, Eric Sokolowsky (SVS), and Mark Subbarao (Lead, SVS). The group meets once every four weeks to discuss Hyperwall software/hardware, Hyperwall content (i.e., scientific visualizations and images), SVS database and website updates, and Hyperwall event support (i.e., Hyperwall speakers and content) for upcoming scientific conferences and events.

Engagement Products and Platforms

- *NASA Hyperwall*



- *NASA Virtual Event Platform*



- *Dynamic Planet*



- *The Earth Observer Newsletter*



- *NASA Science Calendar*



- *NASA Science Story Booklets*



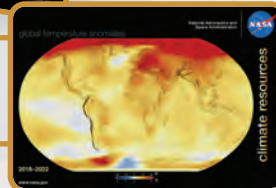
- *Hyperwall Tech Cleaning Cloth*



- *EOSPSO Website*



- *Posters, Postcards, Lenticulars*



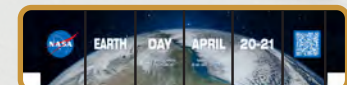
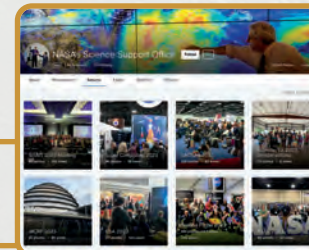
- *Hands-on Activities*



- *Event Support Products*



- *Flickr Photo Albums*



Sharing NASA Science Around



Pecora 22, Denver, CO, October 23–27, 2022



Celebrating 50 years of the NASA–U.S. Geological Society (USGS) Landsat program, the NASA Science exhibit featured the Hyperwall with 14 presentations, as well as other exhibit tables where attendees could learn about Landsat, Earth Science Applied Sciences initiatives, and Earth System Data. **Kate Fickas** [USGS] conducted a *Ladies of Landsat* interview with **Barb Ryan** [2018 Pecora award winner] in front of the Hyperwall. **Karen St. Germain** [Director of the Earth Science Division (ESD)] and **Lawrence Friedl** [Director of the ESD Applied Sciences Program] were among Hyperwall presenters.

American Astronomical Society (AAS) Annual Meeting, Seattle, WA, January 8–12, 2023



The NASA Science exhibit (40 x 40 ft) featured 50 Hyperwall presentations and 30 interactive demos, along with 17 traditional table-top stations featuring a variety of projects and programs across the Science Mission Directorate including Webb, Roman, Chandra, IXPE, ICER, GoMap, PCOS/COR, SOFIA, TESS, Exoplanets, NuSTAR, HEASARC/GCN, NASA Postdoctoral Program, Citizen Science, SCoPE, SEEC, EMAC, Planetary Science, and Heliophysics.



American Association for the Advancement of Science (AAAS) Annual Meeting, Washington, DC, March 2–5, 2023



The NASA Science exhibit (30 x 30 ft) featured the Hyperwall storytelling platform as well as table-top stations representing NASA Science, Earth Science, Heliophysics, Astrophysics, Biological and Physical Science, Science Activation, and Transform to Open Science. There were 22 Hyperwall presentations delivered by NASA experts during the four-day event.

National Science Teaching Association (NSTA) Annual Conference, Atlanta, GA, March 23–26, 2023



The NASA Science exhibit (30 x 30 ft) featured the Hyperwall storytelling platform as well as table-top stations representing NASA Science, Landsat, Infiniscope, Astronomy Activation Ambassadors, SCan, NASA Heat (Helio), OSTEM, My NASA Data, GLOBE, Flight Opportunities, ISS Program Research Office, and Astromaterials. There were 41 Hyperwall presentations delivered by NASA experts during the three-day event.



European Geosciences Union (EGU), Vienna, Austria, April 23–28, 2023



The NASA Science exhibit (8 x 8 meters) featured the Hyperwall storytelling platform as well as table-top stations representing NASA Science, Observational Products for End-Users from Remote Sensing Analysis (OPERA), Transform to Open Science (TOPS), and Total and Spectral Solar Irradiance Sensor-2 (TSIS-2). There were 30 Hyperwall presentations during the event, including two Special Sessions on April 25 and 27 titled Open Science “Ask a NASA Open Science Expert” hosted by **Kevin Murphy** [NASA Chief Science Data Officer] and **Katie Baynes** [NASA Deputy Chief Science Data Officer].

the World ~ Conference Highlights



Japan Geoscience Union (JpGU), Makuhari, Chiba, Japan, May 21–25, 2023

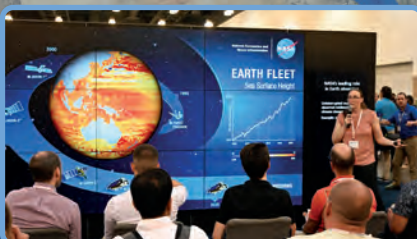


The NASA Science exhibit (30 x 30 ft) featured the Hyperwall storytelling platform, where speakers from both JAXA and NASA delivered 21 engaging presentations covering several Earth and planetary science topics. On May 21, there was a special Hyperwall session for junior high school students which included three hands-on activity demonstrations. NASA staff offered the first hands-on activity, while JAXA staff offered two more. There were 65 students in attendance. On May 24–25, two additional special sessions for advanced high school students took place with more than 80 students in attendance.

International Union of Geodesy and Geophysics (IUGG), Berlin, Germany, July 13–17, 2023



The NASA Science exhibit (10 x 10 meter) featured the Hyperwall storytelling platform. There were 15 Hyperwall science stories presented. Presenters included **Jack Kaye** [NASA HQ—Associate Director for Research of NASA's Earth Science Division], **Thorsten Markus** [NASA HQ—Program Manager Cryosphere], **Alexa Halford** [GSFC—Ionosphere, Thermosphere, Mesosphere (ITM) Lab Chief], and **Felix Landerer** [JPL—GRACE-FO Project Scientist]. The event featured public days July 14–16, where NASA invited family and friends to make ultraviolet-bead bracelets and collect NASA temporary tattoos.



International Geoscience and Remote Sensing Symposium (IGARSS), Pasadena, CA, July 16–21, 2023



The NASA Science exhibit featured the Hyperwall storytelling platform where speakers delivered a variety of Earth science and satellite remote sensing presentations, all of which were well attended, attracting 60+ audience viewers during each talk. The exhibit featured a 5-foot NISAR satellite model as well as tabletop stations to explore NASA Science, Earth Science, Earth Science Technology Office, Earth Observing System Data and Information System, and Transform to Open Science.

Asia Oceania Geosciences Society (AOGS), Singapore, July 30–August 4, 2023



The NASA Science exhibit (15 x 20 ft) featured the Hyperwall storytelling platform, where NASA speakers delivered 27 presentations covering several Earth and planetary science topics. On July 31 a special Hyperwall session for local high school students was held, with 35 students in attendance.



Ecological Society of America (ESA) Annual Meeting, Portland, OR, August 6–11, 2023



The NASA Science exhibit featured the Hyperwall storytelling platform, where speakers delivered 24 presentations featuring NASA contributions to wildfire behavior, kelp forests, arid lands studies, and forest conservation. This was the first time the Hyperwall was used in the NASA exhibit at an ESA meeting. The exhibit also featured tabletop stations to explore Landsat Next, ICESat-2, Transform to Open Science, and general Earth Science mission topics.

Featured Conferences and Events

COP 27, Sharm el-Sheikh, South Sinai, Egypt November 7-18, 2022

The NASA Science exhibit was in the U.S. Center at the 2022 Conference of the Parties (COP) 27, which occurred November 7–18 in Sharm el-Sheikh, Egypt. The U.S. Center—a pavilion where topical panel discussions and other presentations are held to communicate U.S. positions outside the formal negotiation sessions—was also supported by **Susie Perez Quinn** [NASA HQ—Chief of Staff] and **Tylar Greene** [NASA HQ—Earth Science Lead, Office of Communications]. SSO staff operated the Hyperwall, which featured 15 talks presented over two weeks by a team of NASA Earth scientists, including **Kate Calvin** [NASA Headquarters (HQ)—Chief Scientist and Senior Climate Advisor], **Tahani Amer** [NASA HQ—Program Executive, Earth Science Division], **Michael Falkowski** [NASA HQ—Program Scientist, Terrestrial Ecology], and **Laura Lorenzoni** [NASA HQ—Program Scientist, Ocean Biology and Biogeochemistry].



Science Support Office Team Member Receives U.S. Department of State Meritorious Honor Award for COP 27 Support

Science Support Office (SSO) team member **Marit Jentoft-Nilsen** received the U.S. Department of State Meritorious Honor Award for “exceptional teamwork, creativity, and professionalism in organizing and managing dozens of events and exhibits over two weeks at the U.S. Center at the 2022 Conference of the Parties (COP) 27 in Sharm el-Sheikh, Egypt, thus showcasing the depth and breadth of U.S. climate action before thousands of attendees from around the world.” The U.S. Center is a pavilion/exhibit where topical panel discussions and other presentations were held during the conference to communicate U.S. positions outside the formal negotiation sessions.



Photo of U.S. Department of State Meritorious Honor Award.
Credit: NASA

American Geophysical Union (AGU) Fall Meeting, Chicago, IL and Virtual December 12-16, 2022

As it has done for many years, the Science Support Office coordinated the NASA Science exhibit at the 2022 AGU Fall Meeting in Chicago, Illinois, December 12–15, 2022. The in-person attendance was approximately 18,000. The theme of the 50 x 50 ft exhibit was “Unlocking the Secrets.” The exhibit featured a keyhole doorway through which participants walked while exploring hands-on demonstrations. The exhibit also featured the Hyperwall storytelling platform as well as a traditional table-style area where attendees could engage with NASA subject matter experts representing various divisions of NASA’s Science Mission Directorate, including Earth Science, Planetary Science, Heliophysics, Astrophysics, Biological and Physical Sciences, Small Satellites, Space Technology, and Student Opportunities. Throughout the week the Hyperwall featured 67 storytelling talks—including 7 presentations delivered by winners of the **2022 AGU Michael Freilich Student Visualization Competition**. For the first time ever, some Hyperwall talks were live-streamed each day on NASA Television and the ScienceAtNASA YouTube channel. To watch the recorded talks, visit: <https://youtu.be/7SGvJJ-YlhE>; <https://youtu.be/C9qSz70tl14>; https://youtu.be/ufQX7I6H_Ug; and <https://youtu.be/OerejWLqhZU>. Attendees enjoyed listening to Hyperwall stories, talking face-to-face with NASA experts, and collecting engagement products digitally (via QR codes) and physically to take NASA Science home with them. In addition, 8,000 copies of the popular 2023 NASA Science Planning Guide were distributed to exhibit attendees.



Winners of the 2022 AGU Michael Freilich Student Visualization Competition.



Featured Conferences and Events next page >

Continued ~ American Geophysical Union (AGU) Fall Meeting, Chicago, IL and Virtual December 12-16, 2022

2022 Annual NASA Science Mission Directorate Strategic Content and Integration Meeting

The Science Support Office helped coordinate the 2022 Annual NASA Science Mission Directorate (SMD) Strategic Content and Integration Meeting, held December 10, 2022, at the Marriott Marquis in Chicago, IL, ahead of the 2022 American Geophysical Union (AGU) Fall Meeting. The hybrid meeting allowed approximately 100 in-person and ~50 online NASA employees and contractors—who contribute to the agency’s communication activities at many different NASA centers—to convene and strategize communication efforts and workflows for the coming year. **Kristen Erickson** [NASA HQ—Director of Science Engagement and Partnerships] provided opening remarks and a welcome message before sharing a recorded message from **Thomas Zurbuchen** [NASA Headquarters—Associate Administrator]. The daylong event featured talks on communication and engagement strategies for 2023, an Ask Us panel with NASA SMD Directors, an update on the agency’s digital media landscape and art direction, and plans for solar eclipse engagement activities in 2023 and 2024. In the afternoon, there were breakout sessions for Earth Science, Planetary Science, and Heliophysics activities, where participants discussed story ideas and communication and engagement strategies.



NASA Science Now Debuts at AGU Fall Meeting

In addition to the in-person NASA Science exhibit area at the AGU Fall Meeting, NASA’s virtual exhibit space—NASA Science Now (go.nasa.gov/NASAScienceNow)—debuted on December 11, remaining open to the public through 2023. The virtual exhibit attracted 249 unique attendees throughout the week of the AGU Fall Meeting. The environment features six rooms, including an Explore Science exhibit hall, Art Gallery, Watch and Learn area, Science Data room, Fun Zone, and Get Involved room. Some Hyperwall presentations were live streamed in the virtual environment from the in-person NASA Science exhibit, receiving 170 views.



Commodity Classic, Orlando, FL and Virtual March 9-11, 2023

The Science Support Office supported NASA's Earth Science Division/Applied Sciences efforts at this year's Commodity Classic conference—both the in-person exhibit in Orlando, FL, and online via the NASA Virtual Event Platform. The NASA exhibit featured the Hyperwall storytelling platform, Learning Area, live data demos, and table-top stations representing NASA Science, Landsat, and STEM (eClips). During the event there were 19 Hyperwall presentations and seven Learning Area demos. There was also an expert panel titled “NASA Information to Support Climate Resilience Today and in the Future,” hosted by **Alex Ruane** [NASA GISS] and including **Forrest Melton** [NASA ARC], **Brandon Hunnicutt** [National Corn Growers Association], **Lance Lillibridge** [Iowa Corn Growers Association], and **John Farner** [Netafim]. Event photos are available at www.flickr.com/photos/eospso/albums/72177720306680751. View the full Hyperwall agenda at eospso.nasa.gov/content/commodity-classic-hyperwall-schedule.



Commodity Classic Virtual

As an accompaniment to NASA Science's in-person presence, the virtual exhibit featured six pre-recorded Hyperwall and Learning Area presentations, as well as a collection of on-demand resources, including NASA + Agriculture news stories, data portals, and citizen science projects. The Commodity Classic virtual exhibit received 40 attendees with 234 content views.



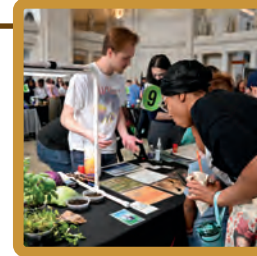
Featured Conferences and Events next page >

Earth Day, Washington, DC and Virtual April 20-21, 2023



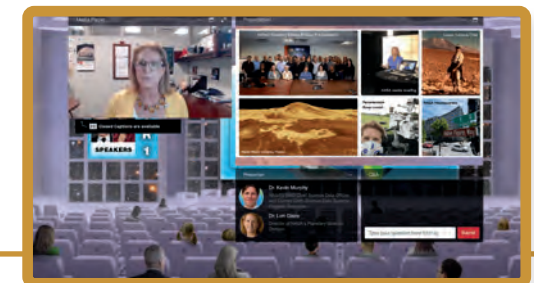
Organized by the Science Support Office, NASA hosted an Earth Day Celebration Event offering both in-person and virtual components. The hybrid 2023 Earth Day Celebration was held April 20–21 at Union Station in Washington, DC, and online everywhere at go.nasa.gov/NASAScienceNow.

The two-day in-person event, which was free and open to the public, featured a 40-foot Earth dome tent and 24 hands-on activities inside Union Station's historic Main Hall. On the first day (as arranged earlier) more than 250 students from 9 school groups from surrounding areas joined the public to attend the event (Latin Public Charter School, Coolidge High School, University of Maryland Eastern Shore, DuVal High School, Prince George's County Virtual High School, Reid Temple Christian Academy, Upward Bound University of Maryland, Homeschoolers, and the Goddard SPEID Program). The students and public gathered in front of a NASA stage for opening remarks, followed by a special presentation by NASA astronaut and **Former NASA Administrator Charles F. Bolden**. The exhibit met physical accessibility standards and featured an ICESat-2 Braille display and three Braille books (Mars, Moon, and Hubble). Nearly 1,200 activity passports were distributed to the public during the event. Student groups, families, and friends were encouraged to use a single passport during their visit; thus, the number of public participants (1,200) and student participants (250) is estimated to be much higher than 1,450. SSO photos are available at <https://www.flickr.com/photos/eospso/albums/72177720307809475>.



The virtual Earth Day event attracted 685 total attendees, with 407 participating live (59.5%) and 278 participating on-demand (30.5%). The Art Gallery component received the highest number of booth visits (241)—which demonstrates that people are compelled by the stunning visuals and artwork. Webinar 1 (Explore Your Planet and Beyond) received 192 unique views. Webinar 2 (Earth Day Celebration) received 189 unique views. Total Auditorium entries tallied 815. Approximately 35% of attendees joined from outside the U.S., which suggests that Earth Day continues to be a great way to engage international students and audiences with NASA Science. The NASAScienceNow platform is a tool that lets us augment and broaden the reach that we have through our in-person exhibits.

Earth Day, Virtual



VVIP Event at Goddard Space Flight Center, Greenbelt, MD April 25, 2023

The Science Support Office supported the April 25 NASA Goddard Space Flight Center visit of **U.S. Vice President Kamala Harris** and the **President of the Republic of Korea (ROK) Yoon Suk Yeol**. SSO team members set up and operated the Hyperwall to support a presentation by **Lesley Ott** [Global Modeling and Assimilation Office (GMAO)]. Ott presented NASA's climate and air quality research and highlighted NASA's Tropospheric Emissions: Monitoring of Pollution (TEMPO) and the ROK's Geostationary Environment Monitoring Spectrometer (GEMS). **NASA Deputy Administrator Pam Melroy** and **Goddard Center Director Makenzie Lystrup** joined Harris and Yoon on the tour.



Featured Conferences and Events next page >

American Thoracic Society, Washington, DC May 19-24, 2023

The Science Support Office supported the first-ever NASA Science exhibit (30 x 30 ft) at the 2023 American Thoracic Society (ATS) Meeting, which was held May 19–24 at the Washington Convention Center in Washington, DC. The ATS is the world's leading medical society dedicated to accelerating the advancement of global respiratory health through multidisciplinary collaboration, education, and advocacy. The ATS meeting attracts 10,500 individuals from around the world. The exhibit featured the NASA Hyperwall storytelling platform as well as table-top stations representing NASA Science and NASA's Earth Science Division Applied Sciences Program. There were nine Hyperwall presentations during the event, exploring the use of Earth observations to study health and air quality from space. The full list of Hyperwall presenters is available at eospso.nasa.gov/content/ats-hyperwall-schedule. Photos of the event will be available at www.flickr.com/photos/eospso/albums.



NASA Day on the Hill, Washington, DC June 7, 2023

The Science Support Office co-led coordination and support of the NASA Day on the Hill event held June 7 at the Rayburn House Office Building in Washington, DC. SSO worked closely with SMD and the Office of Legislative and Intergovernmental Affairs (OLIA) to plan and execute the exhibits featured in the Rayburn foyer. The space featured the NASA Hyperwall storytelling platform as well as table areas representing many SMD divisions, including Earth Science, Planetary Science, Heliophysics, Astrophysics, Biological and Physical Sciences, Science Activation, and Transform to Open Science. The event space also featured the Space Technology Mission Directorate, Explorations Systems Development Mission Directorate, Space Operations Mission Directorate, Artemis Program, and the Office of STEM Engagement. Charles Harris [OLIA] reported that 500 Congressional Staffers and 16 Members of Congress visited the exhibits in person. **Crew 4 NASA Astronauts** visited the event and provided remarks in front of the NASA Hyperwall. In addition, there were 8 Hyperwall presentations prior to the reception. The full Hyperwall schedule is available at eospsso.nasa.gov/content/nasa-day-hill-hyperwall-schedule. Photos from the event are available at www.flickr.com/photos/eospsso/albums/72177720308904256.



NASA's Virtual Event Platform

Now in its third year, the Science Support Office continues using the 6CONNEX/Communique virtual event platform for agency use, with over 80 NASA employees trained to use the platform. The platform was used to support nine NASA virtual events from October 1, 2022, to September 30, 2023.

- 1** **Precipitation Measurements Mission (PMM) Science Team Meeting**, Virtual
October 3, 2022
- 2** **American Geophysical Union (AGU) Fall Meeting**, Chicago, IL and Virtual
December 12-16, 2022
- 3** **Commodity Classic**, Orlando, FL and Virtual
March 9-11, 2023
- 4** **Earth Day**, Washington, DC and Virtual
April 20-21, 2023
- 5** **Digital Learning Week**, Virtual
May 8-12, 2023
- 6** **NASA Earth Information Center Unveiling**, Virtual
June 21, 2023
- 7** **Office of Small Business Programs (OSBP)**, Virtual
July 20, 2023
- 8** **NASAxD Geoengineering**, Virtual
August 9, 2023
- 9** **Next Gen STEM Back to School**, Virtual
September 28, 2023



NASA Virtual Event Platform Proposal Form -
If you're interested in hosting an event via the NASA Virtual Event Platform, please complete the required fields below to initiate the event approval and planning process.



Virtual Conference Highlights

Digital Learning Week, Virtual May 8-12, 2023

The Science Support Office worked closely with Science Activation (SciAct) team members to host Digital Learning Week, May 8–12, at go.nasa.gov/NASAScienceNow. The event featured 26 live webinar events with moderated chat and a new SciAct booth in the Exhibit Hall room. SSO provided webinar support throughout the week-long event. The event attracted 766 unique attendees with attendance from North America (625), Asia Pacific (55), Europe and Middle East (37), Latin America (11), and other regions (38). The virtual environment received 3,639 total content views. The most popular content was NASA Kids' Club (263 views), a webinar on Mars 2020 Perseverance Rover and Sample Return (180 views), NASA Kahoot (170 views), a webinar on Moon Trees/GLOBE (123 views), a webinar on JWST (109 views), and a webinar on Exploring the Solar System (101 views). The Science Theater, Art Gallery, Watch and Learn, and Science Activation booth were the most visited virtual rooms. The event received 1,632 total webinar views one week after the event.



NASA Earth Information Center Unveiling, Virtual June 21, 2023

The Science Support Office provided virtual support for a NASA Headquarters ribbon cutting ceremony for the Earth Information Center (EIC) on July 26. The NASA Science Now virtual exhibit hosted a live stream of the ceremony, and the platform was modified to reference on-demand EIC content, which attracted 23 unique attendees. The ribbon cutting ceremony and all of this event's featured EIC content is available on-demand.



Virtual Conference Highlights next page >

Office of Small Business Programs (OSBP), Virtual July 20, 2023

The Science Support Office assisted the NASA Office of Small Business Programs (OSBP) in the design and operation of the “SDBs...Step Up and Do Business with NASA” virtual networking event, held live on July 20. The event was designed to help small and disadvantaged businesses learn more about what it takes to successfully do business with NASA and featured live presentations and Q&As with over 30 NASA small business experts and partners. There were 1,045 registrants and 535 attendees for the live day. The content remained available on-demand until August 31.



NASAxD Geoengineering, Virtual August 9, 2023

The Science Support Office produced and managed the live stream of NASAxD's "Cross Divisional Discussion About Solar Geo Engineering," which included a conversation between Dr. Holly Jean Buck, author and professor of environmental justice and emerging technologies, and Dr. Colleen Golja, postdoctoral fellow at Harvard's School of Engineering and Applied Sciences. Together, they discussed the topic of geoengineering, what it entails, and how it can be utilized to fight climate change. The event took place on August 9, 2023, and was available online through August 31st via the NASA Science Now Virtual Exhibit.



Virtual Event Platform Products and Training

- ***An Introduction to the NASA Virtual Event Platform Guide***



- ***Virtual Event Platform Catalog***



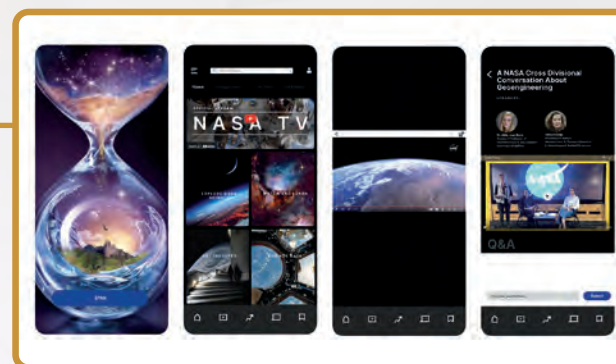
- ***Virtual Event Training Course Promotion***

NASA's Share the Science virtual event tool is now available for agency use to host virtual experiences and events by requesting a license through NASA NAMS.



- ***Improving the Mobile User Experience***

With assistance from a NASA Headquarters design intern, the Science Support Office managed the design of a wireframe for a mobile version of the virtual environment, working on a plan to oversee the implementation of the mobile design framework with 6Connex.



Products



**NASA Science
Tech Cleaning Cloth**



**2024 NASA Science
Planning Guide and Calendar
(English and Spanish)**

NASA Science LED Tower Displays

- NASA Science
- Astrophysics
- Heliophysics
- Planetary Science
- Earth Science
- Biological & Physical Sciences
- Science Engagement & Partnerships



**NASA Hyperwall
How To Guide**



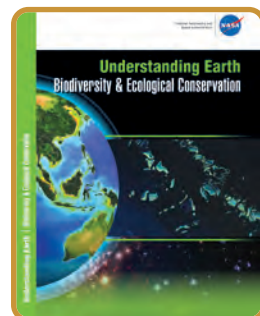
**NASA Earth System
Observatory Lithograph**



**NASA/AGU/StoryCorps
Narratives Project**



**NASA Opportunities
Lithograph**



**Understanding Earth:
Biodiversity and Ecological
Forecasting (update)**



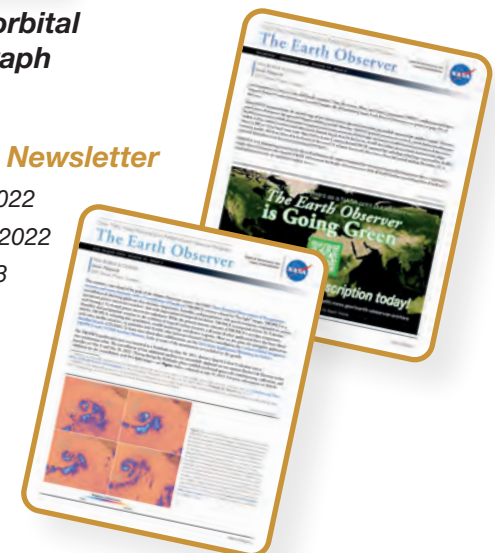
**Digital
Event
Signage**



**NASA Science Suborbital
Platforms Lithograph**

The Earth Observer Newsletter

- September – October 2022
- November – December 2022
- January – February 2023
- March – April 2023
- May – June 2023
- July – August 2023



**30th Anniversary Decal
for AERONET**

The Earth Observer Goes Fully Digital!



Starting with the January–February 2023 issue, *The Earth Observer* will be published exclusively in a digital format. Discontinuing *The Earth Observer* as a print publication after almost 34 years was a difficult decision to make; however, it was the best choice to position the publication to thrive in a future where communication is increasingly digital.



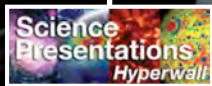
Find Us on the Web



NASA's Earth Observing System
Project Science Office
eosps.nasa.gov



Flickr
www.flickr.com/photos/eosps/sets



Hyperwall Catalog
svs.gsfc.nasa.gov/hw



NASA Science Now
go.nasa.gov/NASAScienceNow



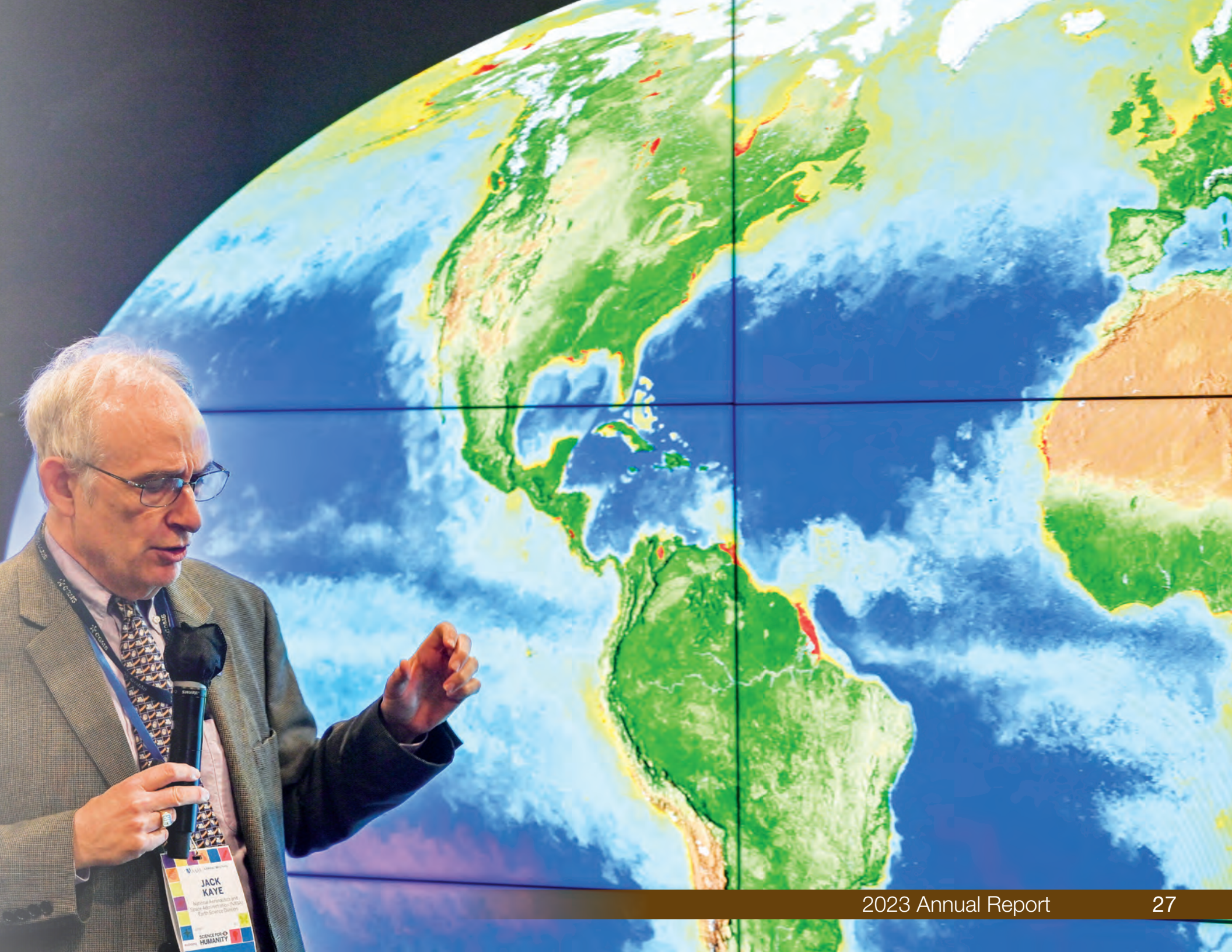
The Earth Observer Newsletter
<https://eosps.nasa.gov/earth-observer-archive>

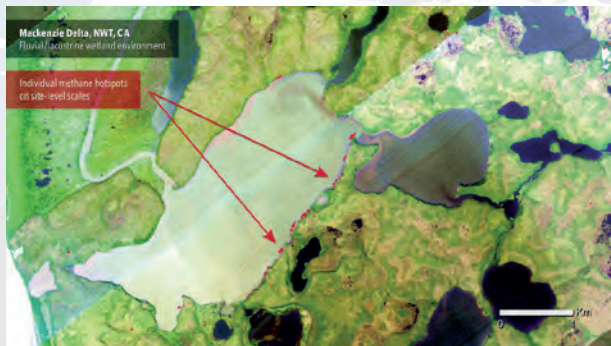
Hyperwall Content

One of the most popular means of communication through NASA exhibits in recent years is a testament to the innovation of the Science Support Office and its commitment to remain on the cutting edge of communications technologies. The Hyperwall is a video wall capable of displaying multiple high-definition data visualizations and/or images simultaneously across an arrangement of screens. When this technology was emerging, the office staff saw potential for a new approach to storytelling at exhibits. The Hyperwall made its debut in 2011 and immediately added a whole new dimension to NASA exhibits and is now immensely popular.

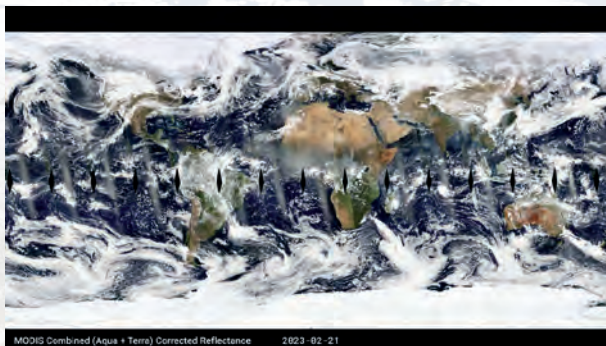
For many of the meetings where the Hyperwall is used, the Science Support Office recruits a line-up of speakers to help explain phenomena, ideas, or examples of world change; the staff provide technical support, helping presenters prepare the material they wish to share in formats appropriate for the Hyperwall. Many of the existing Hyperwall stories reveal change across space and time, while others display large-scale still images; all visuals are accompanied by descriptive, story-telling captions.

Visit svs.gsfc.nasa.gov to explore more.

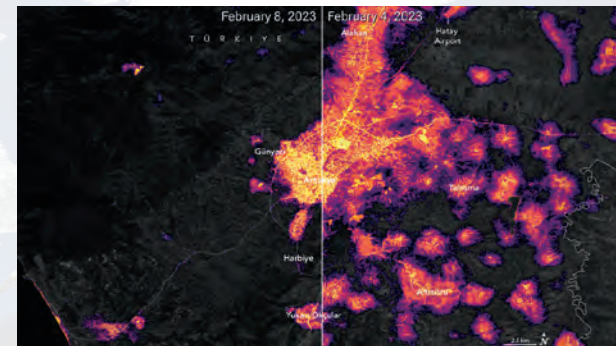




Methane Hotspots from Airborne Imaging Spectroscopy
svs.gsfc.nasa.gov/31219



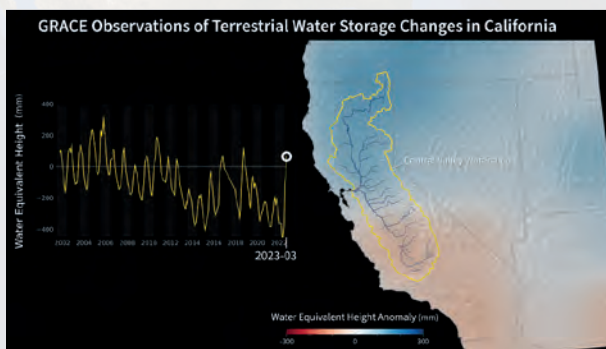
A Daily View of Earth (MODIS)
svs.gsfc.nasa.gov/31223



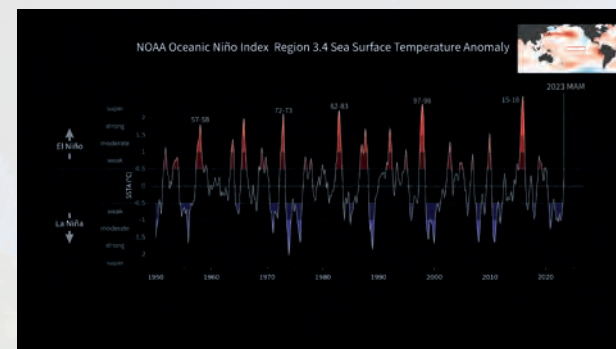
Dark Nights in Antakya
svs.gsfc.nasa.gov/31224



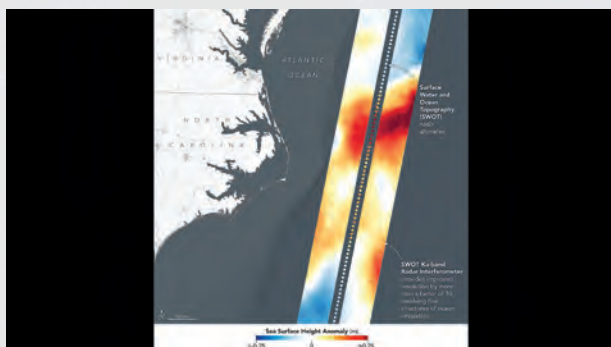
Perseverance at Belva Crater
svs.gsfc.nasa.gov/31227



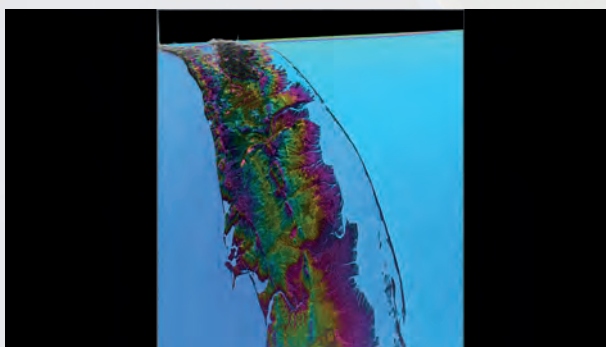
Monitoring California Groundwater
svs.gsfc.nasa.gov/31231



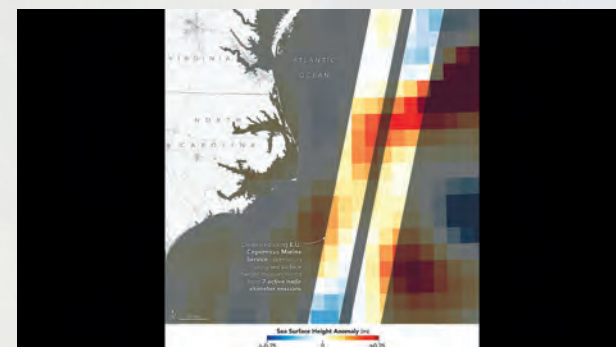
Oceanic Niño Index
svs.gsfc.nasa.gov/30847



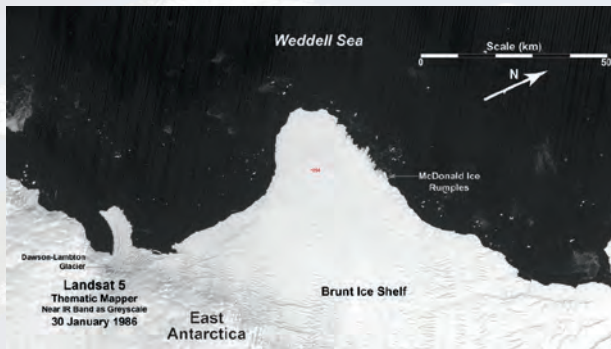
Surface Water and Ocean Topography (SWOT) First Light Images - Gulf Stream
svs.gsfc.nasa.gov/31220



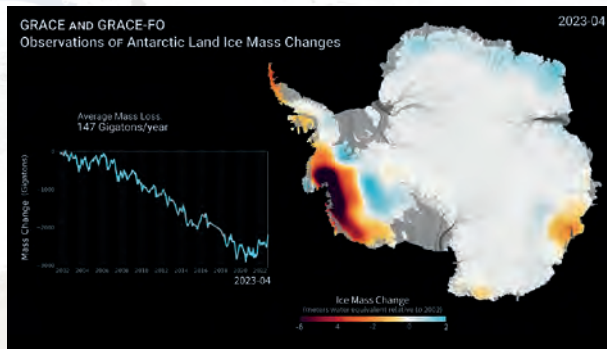
Surface Water and Ocean Topography (SWOT) First Light Images - New York's Long Island
svs.gsfc.nasa.gov/31221



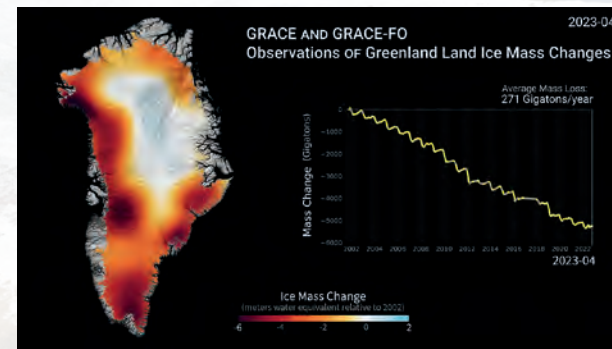
Surface Water and Ocean Topography (SWOT) First Light Images - Gulf Stream
svs.gsfc.nasa.gov/31222



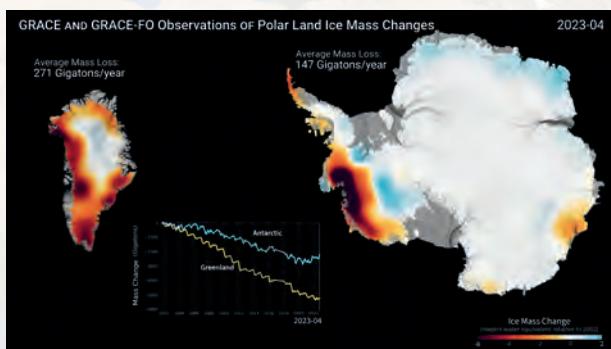
Landsat Tracks Brunt Ice Shelf Evolution, 1986 to 2023
svs.gsfc.nasa.gov/31228



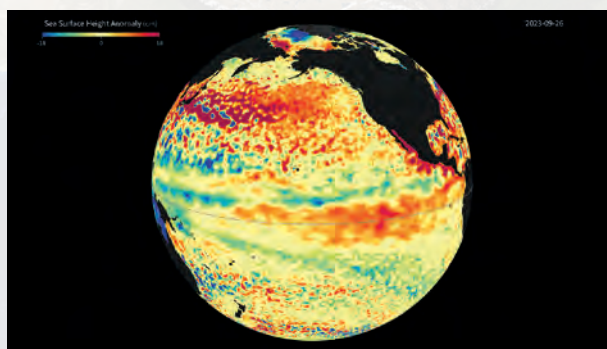
Antarctic Ice Mass Loss 2002-2023
svs.gsfc.nasa.gov/31158



Greenland Ice Mass Loss 2002-2023
svs.gsfc.nasa.gov/31156



GRACE and GRACE-FO Polar Ice Mass Loss
svs.gsfc.nasa.gov/31166



Sea Surface Height Anomaly, 2022-2023
svs.gsfc.nasa.gov/31232

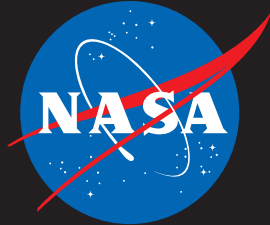













MODIS and VIIRS Image of Northeastern U.S.
svs.gsfc.nasa.gov/31239

Visit svs.gsfc.nasa.gov/hw to explore more

Looking Ahead

2024 Conferences and Events

| | | Jan. | Feb. | Mar. | A |
|---|--|--|--|--|---|
|  SMD Science Support Office <div> <div>Earth Science Division</div> <div>Science Mission Directorate</div> <div>Agency Event</div> <div>DEIA Event</div> <div>International</div> <div>Hyperwall</div> </div> CONFERENCE AND EVENT PLAN 2024 | | 243rd American Astronomical Society (AAS) <i>January 7 - 11 New Orleans, LA</i> <div>HW</div> | | | T Solar <i>Ap Kern</i> |
| | | | | | |
| | | | American Association for the Advancement of Science (AAAS) <i>February 15 - 17 Denver, CO</i> <div>HW</div> <div>DEIA</div> | | Eur Geosci <i>(E April Vienna</i> |
| | | | Ocean Sciences Meeting <i>February 18 - 23 New Orleans, LA</i> <div>HW</div> | National Science Teaching Assoc. (NSTA) <i>March 20 - 23 Denver, CO</i> <div>HW</div> | Ear <i>Ap Washin</i> |
| | | 104th American Meteorological Society (AMS) <i>January 28 - February 1 Baltimore, MD</i> <div>HW</div> | Commodity Classic <i>February 28 - March 2 Houston, TX</i> <div>HW</div> | | |

| Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|--|--|--|---|--|---|---|---|---|
| <p>Total Eclipse April 8 Austin, TX</p> | | | <p>Intl. Geoscience and Remote Sensing Symp. (IGARSS) July 7 - 12 Athens, Greece</p> <p>HW </p> | <p>Small Satellite Conference August 3 - 8 Logan, UT</p> | | <p>HBCU Climate Change Conference October TBD</p> <p>DEIA </p> | <p>Out in STEM (oSTEM) November 7 - 10 Atlanta, GA</p> <p>DEIA </p> | <p>UNFCCC COP29 November TBD - December TBD Location TBD</p> <p>HW </p> |
| | | | <p>COSPAR July 13 - 21 Busan, South Korea</p> <p>HW </p> | <p>Ecological Society of America (ESA) August 4 - 9 Long Beach, CA</p> <p>HW</p> | | | | <p>Annual SMD Comms Meeting December 8 Washington, DC</p> |
| <p>European Geosciences Union (EGU) May 14 - 19 Vienna, Austria</p> <p></p> | | | | <p>International Astronomical Union (IAU) General Assembly (GA) August 5 - 16 Cape Town, South Africa</p> <p>HW </p> | | | <p>Supercomputing November 17 - 22 Atlanta, GA</p> <p>HW</p> | <p>American Geophysical Union (AGU) December 9 - 13 Washington, DC</p> <p>HW</p> |
| <p>Earth Day April 22 Washington, DC</p> | <p>American Thoracic Society May 17 - 22 San Diego, CA</p> <p>HW</p> | <p>Asia Oceania Geosciences Society (AOGS) June 23 - 28 Pyeongchng, Gangwon-do, South Korea</p> <p>HW </p> | | | <p>Geological Society of America (GSA) September 22 - 25 Anaheim, CA</p> <p>HW</p> | <p>American Public Health Association October 27 - 30 Minneapolis, MN</p> <p>HW</p> | <p>ASGSR November TBD Location TBD</p> <p>HW</p> | |
| | <p>Japan Geoscience Union (JpGU) May 26 - 31 Makuhari, Chiba, Japan</p> <p>HW </p> | <p>American Library Association (ALA) June 27 - July 2 San Diego, CA</p> <p>HW</p> | <p>ISSRDC July 29 - August 1 Boston, MA</p> | <p>37th International Geological Congress August 25 - 31 Busan, South Korea</p> <p>HW </p> | | <p>Society for Advancing Chicanos/Hispanics and Native Americans in Science (SACNAS) October 31 - November 2 Phoenix, AZ</p> <p>DEIA </p> | | |

2021

Oct.

**Association of
Science-Technology
Centers (ASTC)**
*Virtual (Swapcard),
October 5–7*

**USA Science and
Engineering Festival
(SciFest)**
*Virtual Conference
Virtual (vFairs),
October 18–21*

Nov.



**26th Conference
of the Parties
(COP26)/UNFCCC
Climate Change**
*October 31 –
November 12*



**NASA
Stem-a-Thon**
*NASA Virtual,
November 18*

Dec.

**National Space
Council Meeting,
United States
Institute of Peace**
December 1



**American Geophysical
Union Fall Meeting**
*In Person and NASA Virtual
December 13–17, 2021*



2022

Jan.

**239th American
Astronomical Society
(AAS) Annual Meeting**
*January 9–13
~~Rescheduled for
June 2022~~*

**American
Meteorological
Society (AMS)
Annual Meeting**
*NASA Virtual,
January 23–27*

Feb.

**American
Association for
the Advancement
of Science (AAAS)
Annual Meeting**
*February 17–20
~~Canceled~~*

**Ocean Sciences
Meeting,
Aquatic Science**
*NASA Virtual,
February 27–
March 2*

Looking Back

2021/2022 Conferences and Events

Mar.



Commodity Classic
In Person and NASA Virtual, March 10–12

Apr.

NASA Sparking Participation and Real-world Experiences in STEM (SPARX) Spring Culminating Event
NASA Virtual, April 2



Our Ocean Conference
April 13–14



National Science Teaching Association (NSTA) Annual Conference
March 31–April 2

8th Annual HBCU Climate Change Conference
April 13–17



Earth Day
In Person and NASA Virtual, Washington, DC, April 21–23

May

Maryland Library Association (MLA) Materials Only
Cambridge, MD, May 4–6

OSTEM Spring Intern Poster Session
NASA Virtual, May 10

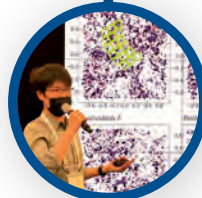


European Geosciences Union (EGU)
In Person, Vienna, Austria, May 23–27



Living Planet Symposium
In Person, Bonn, Germany, May 23–27

June



240th American Astronomical Society (AAS) Meeting
June 12–16



American Library Association (ALA) Annual Conference
In Person and NASA Virtual, Washington, DC, June 23–28, 2022

July

JWST First Light Event
NASA Virtual, July



JWST First Light at NASA Goddard
July 12



COSPAR
July 16–24



IGARSS
In Person, Kuala Lumpur, July 17–22

SaSa Poster Presentations at NASA Goddard
July 25

Aug.



Asia Oceania Geosciences Society (AOGS)
Virtual, August 1–15

OSTEM Summer Intern Poster Session
August 10



Small Satellite Conference
August 6–11



American Chemical Society (ACS) Fall Meeting
August 21–24

Sept.



Association of Science-Technology Centers (ASTC)
September 12–15



NASA Innovative Advanced Concepts (NIAC) Symposium
September 20–22



Clean Energy Ministerial (CEM) and Ministerial for Mission Innovation, The Global Clean Energy Action Forum (GCEAF)
September 21–23



SMD Science Support Office

Core Values



TEAMWORK

STORYTELLING



MUTUAL RESPECT

BROADENING PARTICIPATION



RESPONSIBILITY

INCLUSION



HEALTH & SAFETY

INNOVATION



ACTIVE EXPERIENCE

SERVING SCIENCE



2023

NASA's Science Support Office
Annual Report

National Aeronautics and Space Administration

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NP-2023-11-187-GSFC