

### You're Invited

"Earth Science for a Sustainable World," the theme of Earth Science Week 2022 (October 9-15), emphasizes the essential role of Earth science in helping people make decisions that maintain and strengthen the planet's ability to support thriving life.



The United Nations adopted 17 Sustainable Development Goals (SDGs) in 2015 as a global call to action to solve humanity's biggest challenges. Some of these SDGs are supported by the geosciences and are highlighted on this year's Earth Science Week poster. More information about the SDGs can be found at <https://sdgs.un.org/goals>.

Resources and activities have been collected and developed to engage students with the SDGs, specifically looking at how work in the geosciences supports the SDGs. Each of us can contribute to improving sustainability in our communities and helping achieve the Sustainable Development Goals.

You are invited to join in the celebration of Earth Science Week 2022. Learning about and raising awareness of the SDGs can enable explorations of how individuals and communities can work to improve sustainability.

### About the Map

The map on the poster front is an elevation map, where the colors represent different depths and heights according to the key.

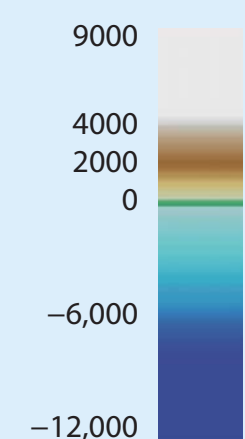
AGI appreciates the work from Jeannine Cody and others who put together this map and the topographic and bathymetric datasets to create it.

Front map by USGS/J. Cody using an Esri dataset with data from Airbus, USGS, NGA, NASA, NOAA, CGIAR, GEBCO, NCEAS, NLS, OS, NMA, Geodatastyrelsen, GSA, GSI and the GIS User Community.

### Other Resources

For more information about the SDGs, classroom activities related to the SDGs, and other teacher resources described above, visit [www.earthsciweek.org/content/sustainable-world](http://www.earthsciweek.org/content/sustainable-world).

Please scan this QR code for an interactive online version of this poster.



The map on the poster front shows elevations (heights and depths) corresponding to these approximate key colors (measurements in meters).

**Earth Science Week Future Dates**  
October 8–14, 2023  
October 13–19, 2024  
October 12–18, 2025

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### Your Vital Role

- **Schools and classrooms** can hold events, complete activities, and invite guest geoscientists to give presentations. Students can do projects, compete in Earth Science Week contests, watch webcasts, and go on field trips to museums or local parks.
- **Colleges and universities** can encourage Earth science departments, professors, and students to host an open house or conduct an event that educates the public about the geosciences.
- **Geoscience companies and other organizations** can reach out to communities by obtaining Earth Science Week Toolkits for local classrooms, hosting an open house, or sending a geoscientist to visit a local school.
- **Museums and science centers** can shine a spotlight on geoscience-related exhibits or create a program especially for Earth Science Week.
- **Families and citizen groups** can participate by planning an event or activity for their communities, youth groups, or schools.

### Learning Activities

#### SDG Initiatives in ArcGIS StoryMaps

The poster front introduces several SDGs and related projects that are supported by geoscience. Those projects are described using ArcGIS StoryMaps. To access the StoryMaps introduced on the poster front and other StoryMaps that highlight work related to the SDGs, visit an online version of the poster at [https://padlet.com/AGI\\_Education/SDGStoryMaps](https://padlet.com/AGI_Education/SDGStoryMaps).

Some of the locations featured in the StoryMaps are identified on the map on the poster front. Add additional locations to the map as they are introduced in each of the StoryMaps. A smaller, printable version of the map is located at [www.earthsciweek.org/content/sustainable-world](http://www.earthsciweek.org/content/sustainable-world), along with other resources.

#### SDGs and Earth's Systems

The geosciences help people understand the dynamic Earth systems that affect them, as well as how people affect those systems. As you review a StoryMap, identify when Earth systems are described, and consider their role in how people are working to support the SDGs. Use the Earth System Diagram at

<https://bit.ly/3yppg0DB> to show how the different Earth systems and their interactions in the initiative are related. Think beyond the StoryMap—in a different color, write down other ways the Earth systems are related to that initiative.

#### SDGs in Your Community — Create a Display

Consider the work your community is doing related to the SDGs. What are some initiatives in your community or region that support one or more of the SDGs? How can geoscience knowledge help that work? How might people be affected by these initiatives? How can you get involved?

Create a display by printing out the icons of the SDGs that relate to your community's initiatives (found at <https://bit.ly/3yp1X0D>) and posting articles, images, and/or ideas you write about your community's connections to the SDGs.

#### SDGs in Your Community — Focus on a Site

Observe or think about a location in your community. How could it be improved in terms of

### Find Out More

See the Earth Science Week 2022 Toolkit ([www.earthsciweek.org/materials](http://www.earthsciweek.org/materials)) and website ([www.earthsciweek.org/](http://www.earthsciweek.org/)) for instructional resources, newsletters, local events, and classroom activities. Have a great Earth Science Week!

### Get Connected

Where to start? Simply go online and explore some of the electronic resources available through the Earth Science Week website:

#### • Classroom Activities

([www.earthsciweek.org/classroom-activities](http://www.earthsciweek.org/classroom-activities)) Search a collection of more than 120 activities that offer a wide diversity of ways to explore Earth science.

#### • Focus Days

([www.earthsciweek.org/focus-days](http://www.earthsciweek.org/focus-days)) Special topics such as Minerals Day (Monday) and Geologic Map Day (Friday) are highlighted and more information, learning activities, and resources are provided.

#### • Contests

([www.earthsciweek.org/contests/](http://www.earthsciweek.org/contests/)) Guidelines are given on the program's annual video, photo, art, and essay contests. Prizes are awarded to students and others nationwide.



Earth Science Week 2021  
Visual Arts  
Contest entry by  
Justin Xu.

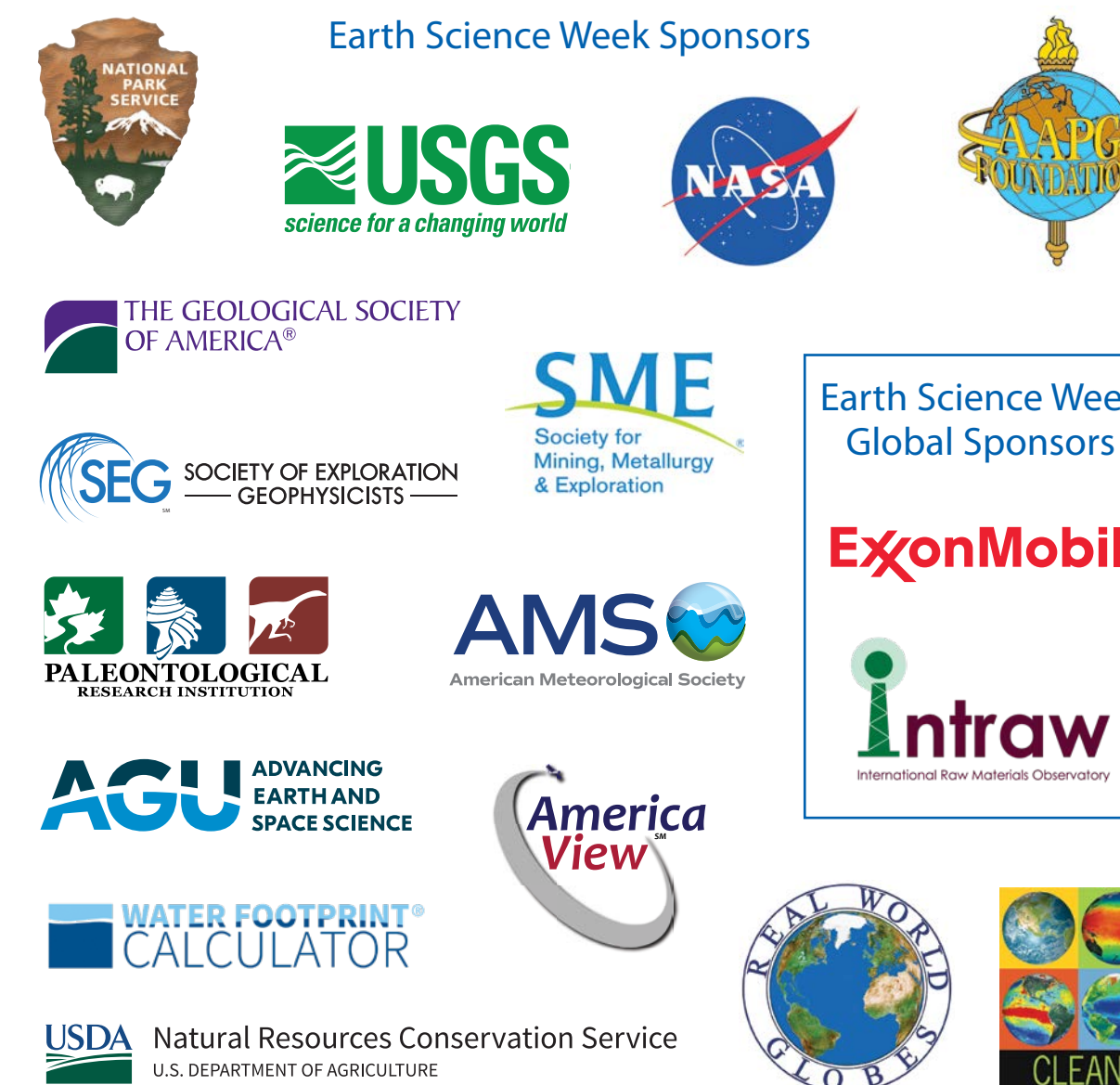
### Earth Science Week Program Partners

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History of Earth Sciences Society  
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National Cave and Karst Research Institute  
National Earth Science Teachers Association

National Speleological Society  
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Petroleum History Institute  
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SEPM (Society for Sedimentary Geology)  
Society for Mining, Metallurgy & Exploration  
Society of Economic Geologists  
Society of Exploration Geophysicists  
Society of Independent Professional Earth Scientists  
Society of Mineral Museum Professionals  
Society of Vertebrate Paleontology  
Soil Science Society of America  
United States Permafrost Association

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