2023
A YEAR OF
OPEN SCIENCE

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TOPS Code of Conduct

We strive to create a welcoming and inclusive culture that empowers people to provide outstanding open science. That requires an open exchange of ideas balanced by thoughtful guidelines.

It would be impossible to list everything staff can do to create a more welcoming space, and we know this team will find ways to include their colleagues that we haven't even thought of. But when in doubt, we encourage you to look to these principles for guidance:

- Practice empathy and humility.
- Participate in an authentic and active way. In doing so, you contribute to the health and longevity of this community.
- Exercise consideration and respect in your speech and actions.
- Assume that everyone we work with is doing their best work for open science.
- Listen carefully and actively.
- Ask questions, and seek to understand your partners' context.
- Encourage other people to listen as much as they speak.
- Attempt collaboration before conflict.
- Treat other people's identities and cultures with respect. Make an effort to say people's names correctly and refer to them by their stated pronouns.
- Be mindful of your surroundings and of your fellow participants. Alert community leaders if you notice a dangerous situation, someone in distress, or violations of this Code of Conduct, even if they seem inconsequential.

TOPS Code of Conduct

The primary goal of TOPS is to be inclusive to the largest number of contributors, with the most varied and diverse backgrounds possible.

TOPS expects everyone to comply with our code of conduct, communicating openly with respect for others and critiquing ideas rather than individuals.

Anyone not abiding by the TOPS Code of Conduct will be asked to leave the forum. If you are the subject of unacceptable behavior or have witnessed any such behavior, please immediately notify Chelle Gentemann via chat or chelle.gentemann@nasa.gov.

For more information, review the code of conduct found on the TOPS GitHub.

Submit Feedback or Suggestions

Your inputs are essential to the success of our mission. Please feel free to submit questions, feedback, or suggestions via the feedback tool.

You can use the QR code to access the feedback tool

NASA TOPS collaborates on Open Science Podcast

Season 4, Down to Earth collaborated with NASA and the IEEE Geoscience and Remote Sensing Society to dig deep into the fascinating frontier of Open Science. Trailer just dropped - check it out at https://www.grss-ieee.org/down-to-earth-podcast/ .

Chelle Gentemann
NASA TOPS

Sudhir Shrestha
NOAA NWS Office of Water Prediction

A YEAR OF **OPEN SCIENCE**

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NASA
2023

NASA is supporting scientists to integrate open science principles into the entire research workflow

NASA's Open-Source Science Initiative

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NASA’s Transform to Open Science (TOPS)

a $40 million 5-year mission to accelerate adoption of open science

TOPS' Strategic Goals:

- Support 20K researchers to earn NASA's open science certification
- Double the participation of historically excluded groups across NASA Science
- Enable five major scientific discoveries through open science principles

Engagement

Capacity Sharing

Incentives

Coordination

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NASA's 2023 Year of Open Science

…is the spark

TOPS Priorities:

CURRICULUM - Introduction to open science

- 1000 scientists earn NASA TOPS open science certificates

EVENTS - Engage historically underrepresented groups

- Partner w/ Minority Serving Institutions (MSIs)
  - Marquee events, TOPS Annual Hackathon, Annual TOPS Internship program (3-4 people/year; All-in)
- Establishing Strategic Partnerships with external organizations focused on STEM engagement

OPPORTUNITIES - Develop incentives

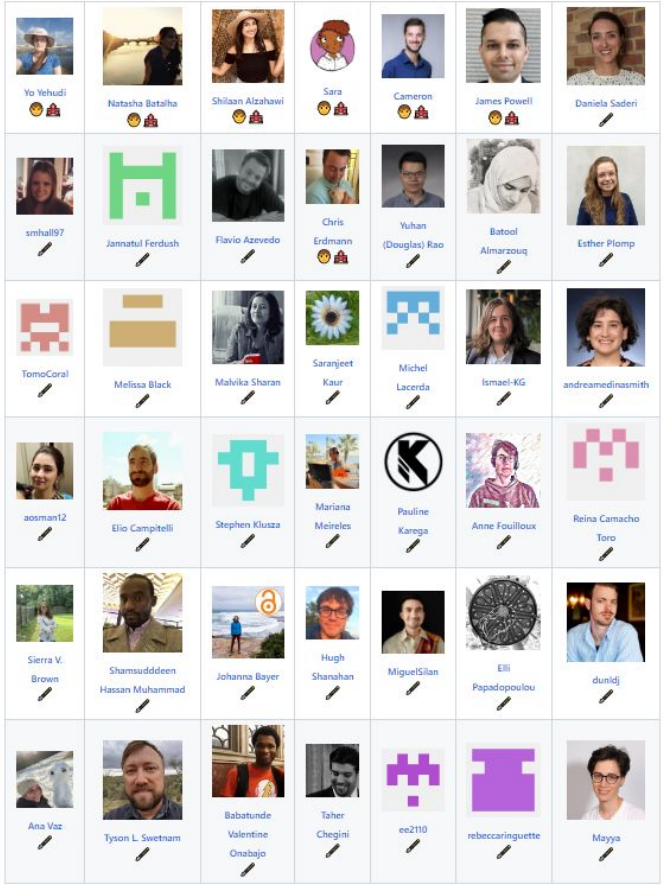
- Pilot including open science activities in evaluations of 5+ NASA ROSES23 elements and at 5+ universities (Tenure and Promotion)
- Partner with societies on open science awards

The NASA Open Science Certificate identifies researchers who use key open science skills

Open Science 101: A community-developed introduction to open science with inclusivity, accessibility, and diversity at the forefront.

- Able to use digital tools to perform open science (e.g., ORCID, Zenodo, Github accounts)
- Familiar with data management and software management plan best practices and resources
- Grow connections across a community of open science practitioners

Join us in adopting open science



This project follows the all-contributors specification. Contributions of any kind welcome!

Many thanks to the global community of open science experts who shared their knowledge and experiences with us!

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NASA Open Science

Events

TOPS is prioritizing outreach in 2023!

You will find TOPS at the conferences for…

AGU ADVANCING EARTH AND SPACE SCIENCE

SACNAS

CERN

AAS AMERICAN ASTRONOMICAL SOCIETY

EGU General Assembly

SASE SOCIETY OF ASIAN SCIENTISTS & ENGINEERS

LPSC 52 VIRTUAL CONFERENCE

ASGISR

AAAS AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

AMS American Meteorological Society

IEEE GRSS Geoscience and Remote Sensing Society

…and more!

NASA

TOPS is raising visibility of open science!

In person workshops to teach basic open science skills

Sessions to showcase open science research

Booth to sign up for virtual OpenCore workshops

Reach out to help or stop by the booth!

NASA Open Science

Opportunities

OPEN CALLS

F.2	**Topical Workshops, Symposia, and Conferences**	Events, Hackathons, un-conferences, and challenges that build open science skills, particularly events focused on Science Mission Directorate data, software, or open science practices Proposals for ROSES-22 will be accepted until **May 12, 2023**
F.7	**Support for Open Source Tools, Frameworks, and Libraries**	Improvements and sustainment of high-value, open source tools, frameworks, and libraries that have made significant impacts to the SMD science community Proposals for ROSES-22 will be accepted until **February 14, 2023**
F.8	**Supplemental Open Source Software Awards**	Conversion of legacy software into modern code with open license Proposals for ROSES-22 will be accepted until March 29, 2023
F.15	**High Priority Open-Source Science**	Innovative open-source tools, software, frameworks, data formats, and libraries that will have a significant impact on the SMD science community Proposals may be submitted at any time until March 29, 2023

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COMING SOON

F.14	**Transform to Open Science Training**	Tutorials showcasing open science in action and NASA cloud data, summer schools, virtual cohorts. Budget of $4.5M per year. Once every three years Coming again soon
F.16	**Supplement for Software Platforms**	Supplemental support of existing awards for use of scientific analysis platforms Deferred until ROSES 2023

Check out TOPS' proposal resources at https://nasa.github.io/Transform-to-Open-Science

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There are actions you can take today to get more involved in open science!

And help others get involved, too!

Join an open science community!

Develop an Open Science Action Plan

Explore the Open Science Toolkit from the National Academies

Learn more about TOPS Open Science Activities!

NASA Open Science

Multi-Agency Initiatives

The White House announces

2023: A Year of Open Science

A multi-agency initiative across the US Federal Government to spark change and inspire open science engagement through events and activities that will advance adoption of open science.

- **NASA**
- **National Oceanic and Atmospheric Administration**
- **National Science Foundation**
- **Department of Energy**
- **General Services Administration**
- **National Endowment for the Humanities**
- **National Institutes of Health**
- **National Institute of Standards and Technology**
- **US Department of Agriculture**
- **US Geological Survey**

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A Common Definition

Open science is the principle and practice of making research products and processes available to all, while respecting diverse cultures, maintaining security and privacy, and fostering collaborations, reproducibility and equity.

YEAR OF OPEN SCIENCE

To Change Everything, We Need Everyone!

Goals:

1. Develop a strategic plan for open science
2. Improve the transparency, integrity, and equity of reviews
3. Account for open science activities in evaluations
4. Engage underrepresented communities in the advancement of open science

Goal 1

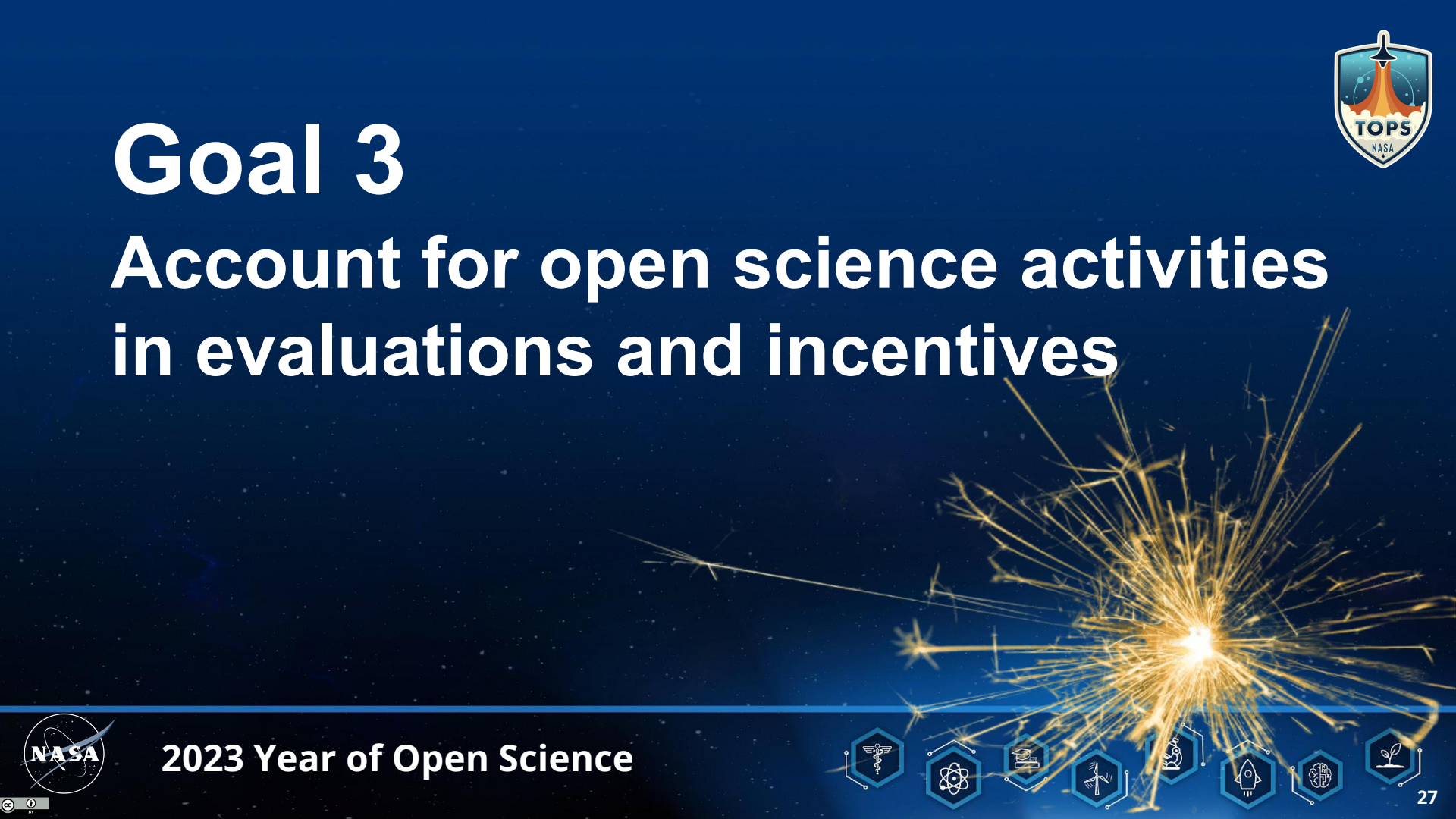
Develop path towards a strategic plan for open science

Goal 2

Improve the transparency and equity of reviews

Goal 3

Account for open science activities in evaluations and incentives



Goal 4

Engage underrepresented communities in the advancement of open science

Q&A

Sign up here to get Open Science certified!

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