



ACCP Air Quality Applications Workshop

Applications Impact Team (AIT):

A-Team: Ali Omar & Amber Soja (LaRC), Bryan Duncan & Melanie Follette-Cook (GSFC), Aaron Naeger (MSFC), Olga Kalashnikova (JPL)

CCP-Team: Dalia Kirschbaum (GSFC), Emily Berndt, Anita LeRoy & Patrick Gatlin (MSFC), Svetla Hristova-Veleva (JPL),

Applications Coordinator: Andrea Portier (GSFC)

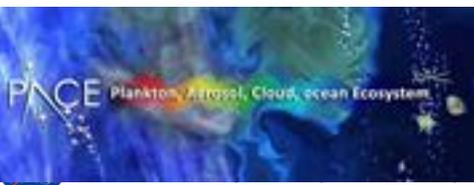


CCP-Team: Dalia Kirschbaum (GSFC), Emily Berndt, Anita LeRoy & Patrick Gatlin (MSFC), Svetla Hristova-Veleva (JPL),

Applications Coordinator: Andrea Portier (GSFC)



Aura atmospheric chemistry





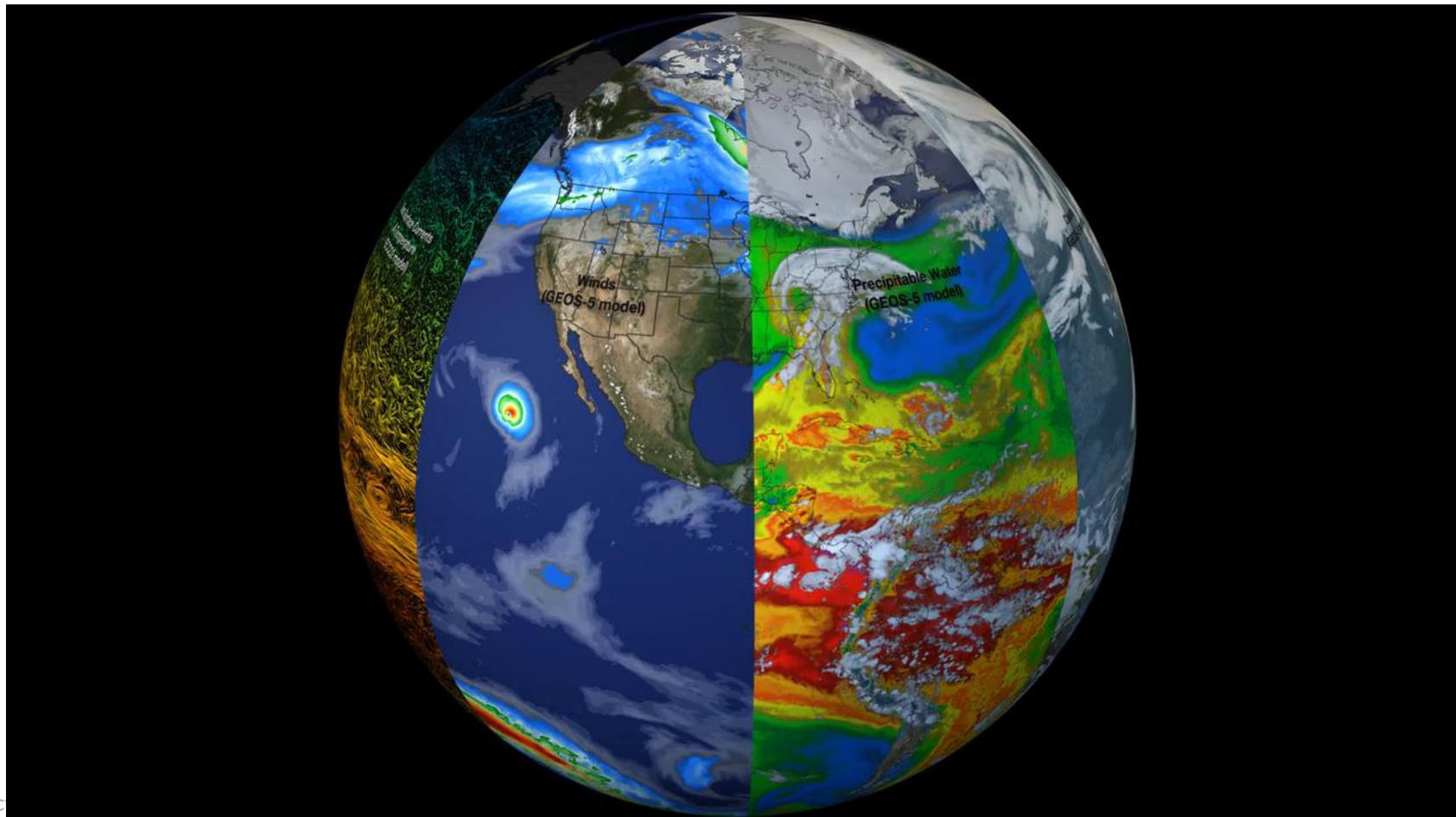
Workshop Motivation

- ✓ **Purpose** – To share the many potential air quality applications of the ACCP mission and stimulate efforts to imagine, articulate, and anticipate novel applications
- ✓ **Why should you care** – ACCP is the next major NASA Earth Science Atmospheric mission for aerosols, clouds and precipitation and along with the other missions (e.g., TEMPO, MAIA) will shape our understanding of air quality for next two decades
- ✓ **Your role** – Your input as a community at this early stage of the mission will inform aspects of the **observations, data downlink (latency), processing, distribution** and to a certain extent **algorithms** and the production of higher-level products
- ✓ **Your tasks** – Provide input / seek answers using multiple platforms – Teams, Google docs, and orally. Lastly, provide input through **online surveys** during the meeting



Why are we here?

- NASA Earth science uses unique global observations from space, air, sea and on land to help us better understand our planet's interconnected systems.

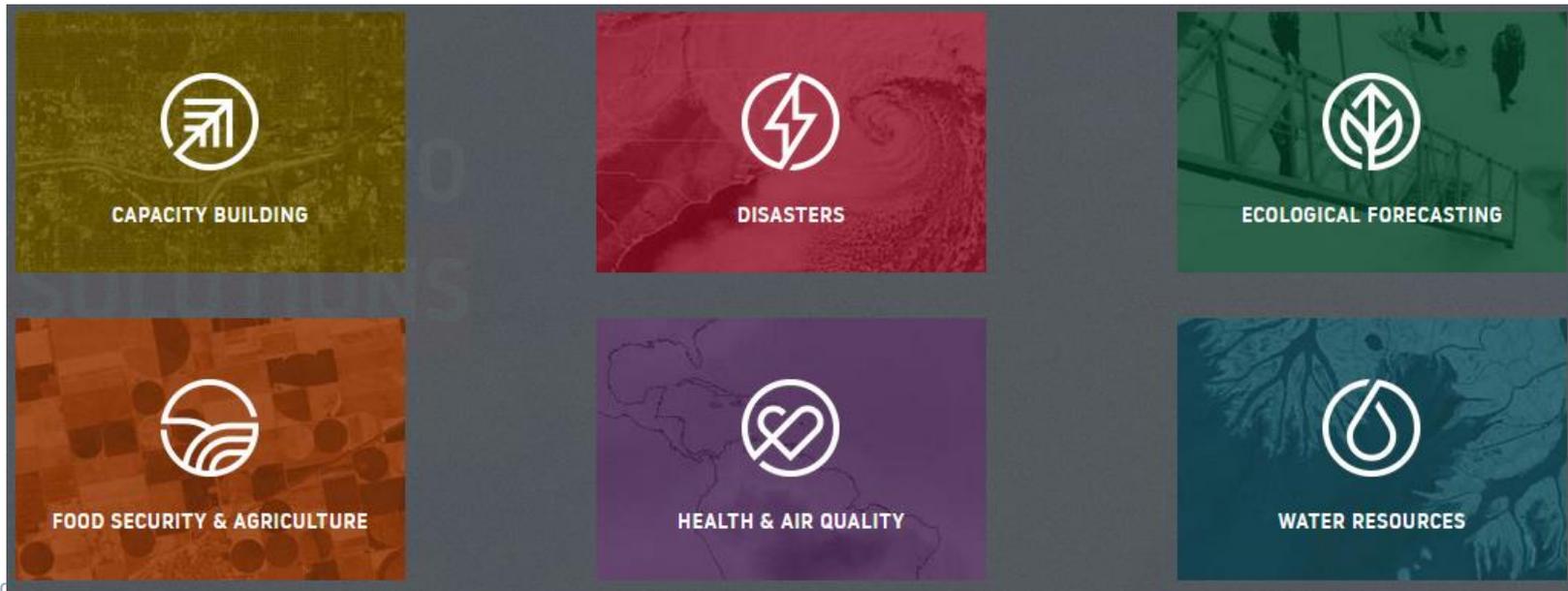




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- The NASA Applied Sciences Program works with individuals and institutions worldwide to inform decision-making, enhance quality of life and strengthen our economy.





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- **Build and enhance connections with stakeholders across industries, companies, government, international groups, and academic colleagues to inform how current and future NASA satellite data can be used within different societal benefit areas.**





Workshop Overview

Day 1

March 16th

- Overview NASA Decadal Survey ACCP Mission Study
- Current and future Program of Record
- ACCP Applications Overview
- Invited Talks
- Q&A

Day 2

March 17th

- AQ and Hazardous Plume Forecasting Panel and Discussion
- AQ Rules and Regulation Panel and Discussion

Day 3

March 18th

- Smoke Panel and Discussion
- Public Health Panel and Discussion





Objectives of the Workshop

- Provide opportunities to expand community engagement on satellite applications and needs, with a focus on air quality
- Engage communities that are expanding their capabilities of using satellite data as input into their systems
- Provide overviews and opportunities for discussions on how current satellite data products are being used for health and air quality applications
- Articulate the challenges and barriers from the community related to the use of satellite data related to health and air quality applications





Objectives of the Workshop

- Discussion of current and future satellite needs and gaps and how products from the ACCP study may be used by this community.
- Increase awareness of NASA products for this community of users for future research and applications
- Explore ways to rapidly implement and scale up successful applications
- Encourage participation in and preparation for an Early Adopter program during Phases A through Phase B of the mission





Outcomes

- Identify community needs to ensure use of ACCP observations once they become available (latency, format, training, etc.)
- A better understanding of how air quality communities are utilizing NASA data and products for decision making
- White paper reporting on lessons-learned from the workshop of the current and future status of NASA Earth Observations for federal, state, and private health and air quality applications





Workshop Details



- Please make sure to *mute your microphone* and *disable video*
- Please DO *show your video* and *unmute your microphone* if you are presenting
- If you have a question or comment during Q&A sessions or panel discussions please use the *Questions and Comments Google Doc*. The link to the Google Doc will be pasted in the chat.
- All presentations (that have presenter approval) will be posted at the Workshop website: <https://vac.gsfc.nasa.gov/accp/events-more.htm?id=75>
- The workshop will be *recorded*.
- Please take the time to *fill out the workshop survey*. The link will be posted in the chat box throughout the workshop.

