



Overview: The U.S. Greenhouse Gas Center

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With input from the interagency Technical Expert Group

US GHG Center: Vision, Mission, Purpose

VISION

Inspire and accelerate the use of Earth science data and information to increase confidence in setting, assessing, and meeting climate mitigation goals.

MISSION

Extend accessible and integrated GHG data and modeling capabilities from U.S. Government and non-public sources for scalable impact.

PURPOSE

Develop and enhance GHG data products that **meet user needs**;

Foster **collaboration** with networks of interagency, international, intergovernmental and private sector partners to co-develop and increase adoption of **impactful applications**;

Promote **scientific innovation** and **transparency** by leveraging **advanced data systems** capabilities and **open-source science** principles; and,

Establish **bidirectional knowledge transfer** and engagement with federal, state, local and tribal governments, researchers, and the general public.

NATIONAL STRATEGY TO ADVANCE AN INTEGRATED U.S. GREENHOUSE GAS MEASUREMENT, MONITORING, AND INFORMATION SYSTEM

A REPORT BY THE GREENHOUSE GAS MONITORING AND
MEASUREMENT INTERAGENCY WORKING GROUP

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U.S. Greenhouse Gas Center

Uniting Data and Technology to Empower Tomorrow's Climate Solutions



earth.gov/ghgcenter

Initial Focus Areas



Gridded Anthropogenic Greenhouse Gas Emissions

Emission estimates from human activities including the energy, agriculture, waste, and industry sectors

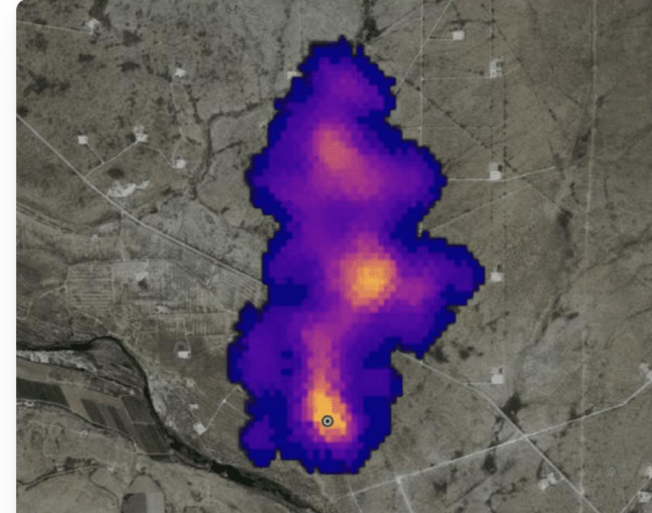
→ [Check out relevant datasets](#)



Natural Greenhouse Gas Sources and Sinks

Naturally-occurring greenhouse gas fluxes from land, ocean, and atmosphere

→ [Check out relevant datasets](#)



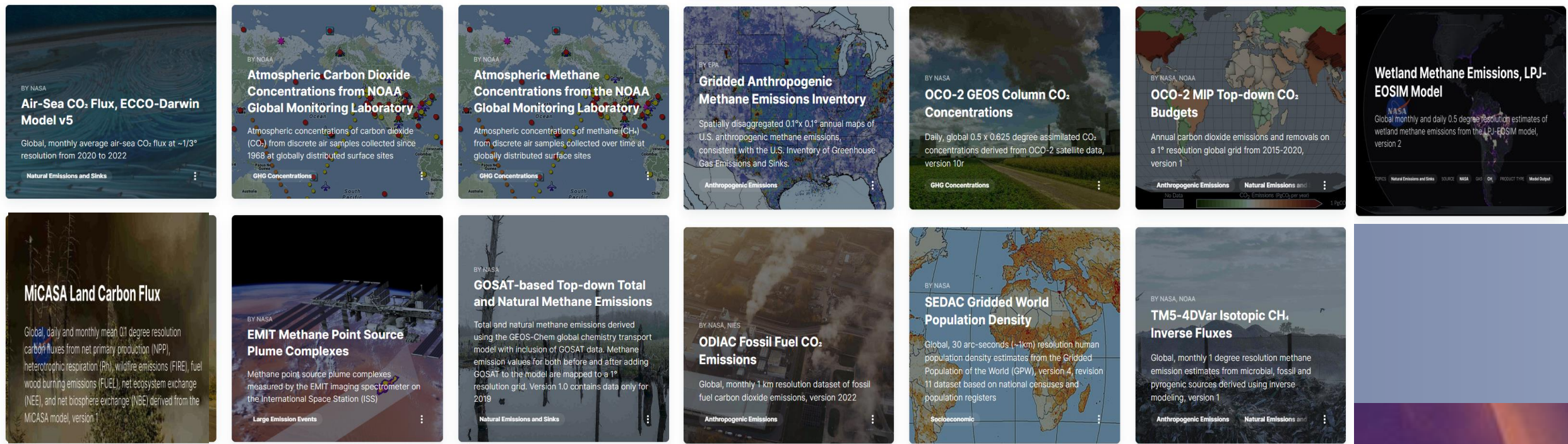
New Observations for Tracking Large Emission Events

Identify and quantify large methane leak events leveraging aircraft and space-based data

→ [Check out relevant datasets](#)

Current Capabilities – Demonstration Phase

- NASA — Satellite Observations of GHGs, data system, management of U.S. GHG Center, stakeholder engagement
- EPA — anthropogenic GHG emissions
- NOAA — Global reference network for monitoring GHGs including aircraft measurements, data and information services and provision of WMO calibration standards
- NIST — Measurement Science and Technologies supporting standards and standardization; urban emissions
- Multi-agency — models to understand systems informed by observations across government, collaboration on airborne campaigns



Stakeholder Engagement Strategy Snapshot

Partner Engagement



Working with implementing federal agency partners

Engaging Communities



Embedding the Center in relevant GHG stakeholder groups

International Engagement



Collaborating on multilateral and bi-lateral scales, and with foreign organizations

Socialization Opportunities



Spreading the word and identifying new stakeholders

Stakeholder Workshops and User Focus Groups



Gathering feedback and input on user needs and priorities

Prizes, Challenges and Crowdsourcing



Opening opportunities for innovation

Education and Training



Training users and the next generation of scientists

Supported by a robust Communications Strategy

User Focus Groups



- **Purpose:** 2-way engagement with US GHG Center users interested in co-developing and enhancing the three (3) focus areas capabilities.
- **Who:** Existing and potential users of US GHG Center capabilities from the USG and non-USG space with interest in one or more initial focus areas.
- **What:** Users sign up to communicate with the US GHG Center related to providing feedback on existing capabilities and proposing enhancement requests. Users will also be contacted to solicit thoughts on periodic portal and capability updates, and support prioritization of new capability requests.
- **How:** US GHG Center - led community emails, direct questions for feedback, newsletters and announcements, website feedback forms, and bi-monthly virtual meetings/webinars.
- **When:** 1-2hr meetings in 2024: March, May/June, July/August, October/November

Draft Stakeholder Engagement Timeline

2023 Accomplishments

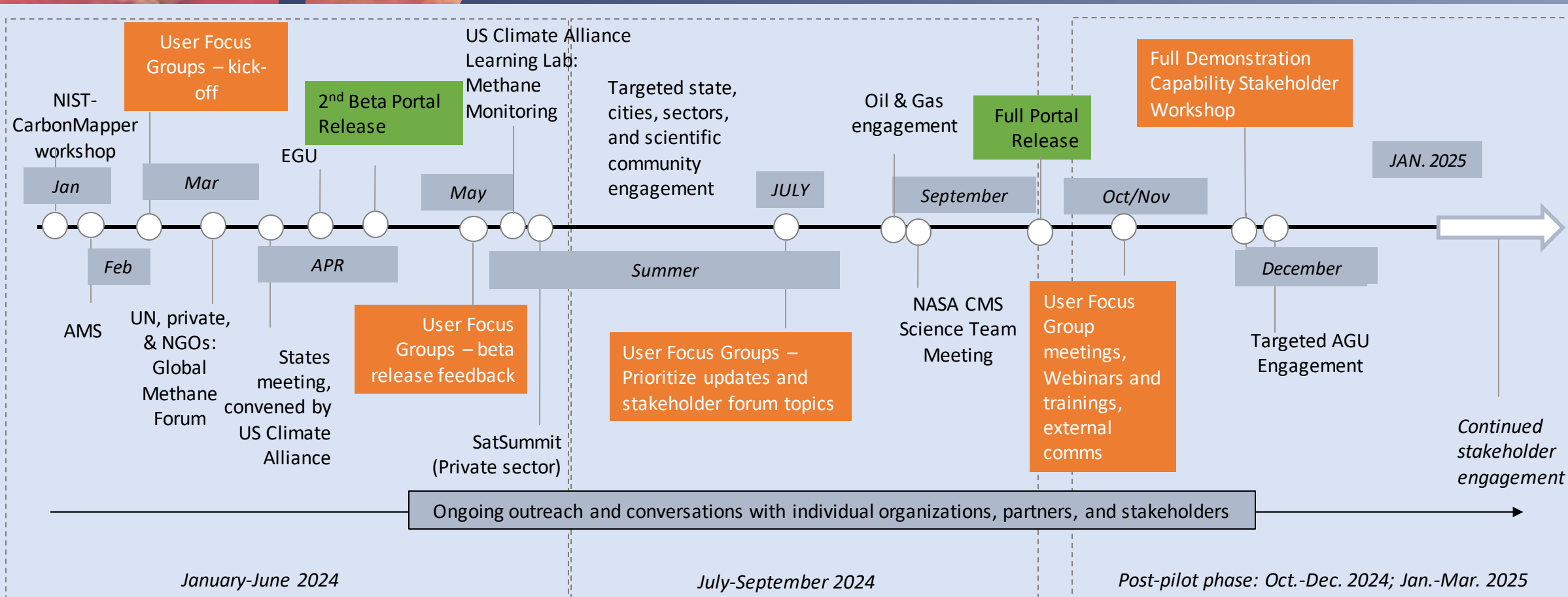
Scoping the Center with agency partners

National engagement (USGCRP, Interagency Working Group, NASA CMS stakeholder meeting, AGU)

International collaboration (WMO, UNEP, CEOS, AmeriGEO, EU/JAXA, etc)

Beta Portal Release and Targeted Stakeholder Forum

US GHG Center launched at COP28





Subscribe to the US GHG Center Mailing List to hear about portal updates and **Join the User Focus Groups** to provide feedback on the beta portal



The U.S. Greenhouse Gas Center

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Thank you!

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