Harvard John A. Paulson
School of Engineering
and Applied Sciences

HARVARD UNIVERSITY
ATMOSPHERIC CHEMISTRY
MODELING GROUP

Integrated Methane Inversion (IMI) Virtual User Workshop:
Enabling non-experts to quantify methane emissions from satellite data

The Integrated Methane Inversion (IMI) is an open-source cloud-computing tool for quantifying methane emissions worldwide using TROPOMI satellite observations. It uses advanced research-grade inversion algorithms and is designed for user-friendly application by non-expert stakeholders to any region and period of interest. It is freely available through the Amazon Web Services (AWS) cloud as open-source software and is backed by active research at Harvard University and the Netherlands Institute for Space Research (SRON).

The Harvard University Atmospheric Chemistry Modeling Group and Salata Institute for Climate and Sustainability will host a **virtual workshop** for current and prospective IMI users, to be held **4 November 2024** from **11:00-13:00 ET**. The workshop will comprise a series of short presentations by the IMI development team highlighting the tool's capabilities (11 to 12 ET) followed by discussion and Q&A (12 to 13 ET). A second, hands-on workshop will be held at a later date for interested users to apply the IMI to their region(s) of interest with guidance from the IMI team.

Please **register** for the workshop by 15 October 2024.
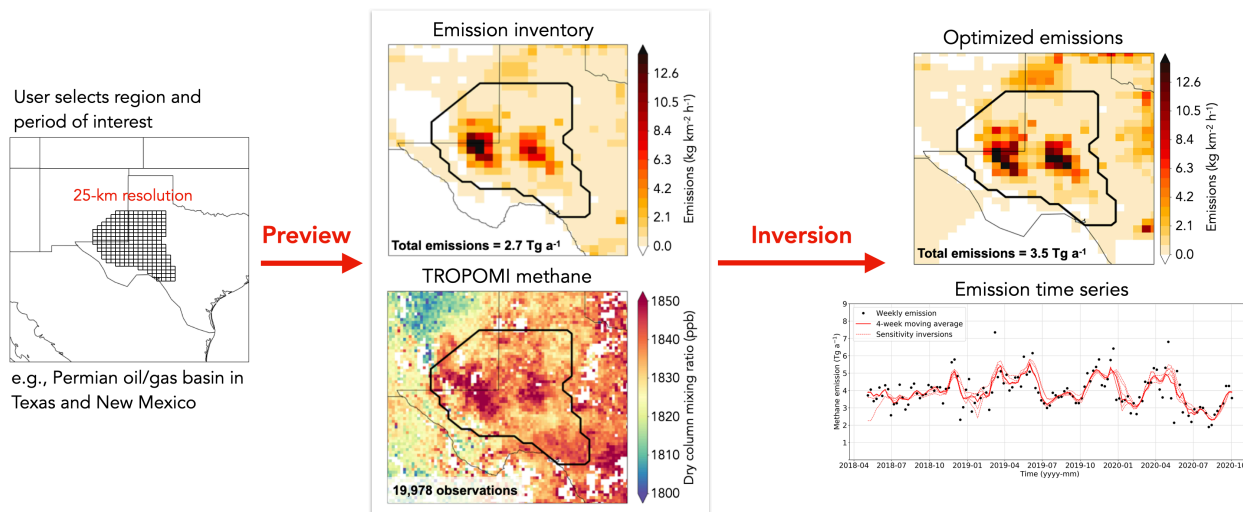
Example application of the IMI to quantify methane emissions from the Permian Basin.

Contact the IMI team. Please feel free to reach out with questions.

- Workshop registration/logistics: Melissa Sulprizio (mpayer@seas.harvard.edu)
- Accessing the IMI: John Thomas (johnthomas@g.harvard.edu)
- Running the IMI on AWS: Lucas Estrada (lestrada@g.harvard.edu)
- General questions: Daniel Varon (danielvaron@g.harvard.edu)

We look forward to seeing you in October!