



NASA Applied Remote Sensing Training (ARSET)

<https://appliedsciences.nasa.gov/arset>



The ARSET Program delivers cost-free training on the use of Earth Observations for decision making

- Our trainings are:
 - Online and in-person
 - Live, instructor-led, or self-guided
 - Provided at no cost, with materials and recordings available from our website
 - Often multi-lingual
 - Range in level from **introductory** to **advanced**



ARSET Training Themes



[Disasters](#)



[Agriculture](#)



[Land](#)



[Water Resources](#)



[Climate](#)



[Health & Air Quality](#)

Atmospheric CO₂ and CH₄ Budgets to Support the Global Stocktake

Training Page:

<https://appliedsciences.nasa.gov/mission/training/english/arset-atmospheric-co2-and-ch4-budgets-support-global-stocktake>

- Given in May 2022
- Watch our three pre-recorded 2-hour sessions
- Register for and attend one of our live Q&A Sessions on October 4th, 2022
 - Session 1: 11:00 AM ET, 17:00 CEST
 - Session 2: 17:00 ET, 23:00 CEST

Part 1: Tracking Greenhouse Gases

- Paris Agreement and mitigation objectives
- Global Stocktake
- Bottom-up and top-down emissions inventories

Part 2: Creating Top-Down Atmospheric Budgets of CO₂ and CH₄ on Policy-Relevant Scales

- Emission and removal of CO₂ and CH₄
- Space-based, airborne, and ground-based measurements of CO₂ and CH₄
- Inverse modeling

Part 3: Top-Down Budgets and Bottom-Up Inventories to Support the Global Stocktake

- Best practices for use in assessing progress towards Paris Agreement goals
- Strengths, weaknesses, and future opportunities
- Case studies

