

NASA Carbon Monitoring System (CMS) - Meeting Summary 2025

- From September 9-11, 2025 the NASA Carbon Monitoring System (CMS) Science Team Meeting took place at NASA Ames Research Center in Moffett Field, CA.
- The goals of the meeting included: Update on NASA programmatic goals, stakeholder engagement, discussion of Phase III synthesis report and national interest metrics, presentation of CMS results and future plans, advance and share progress of working groups & synthesis efforts, discussion of science team activities for 2025-2026.
- The meeting had 129 registered participants, including 60 in person, 69 virtual.
- Early career participants totaled 60, including 1 Undergraduate Student, 9 Graduate Students, 9 Postdocs, 41 ≤ 10 years post terminal degree.
- Stakeholder participants totaled 32, including stakeholders from the US, Canada, and Singapore. These stakeholders were from a diverse set of organization types: Federal Government (4), NGO/Non-Profit (4), University (5), Inter-governmental Organization (2), State Government (9), Company (5), Research Institute (3).
- The keynote presentation by Deborah Gordon (RMI) highlighted the successful adoption of key CMS products to monitor methane emissions from oil and gas.
- CMS continues to be highly productive and impactful. To date, CMS has produced 740 publications cited 68,420 times, with 63 in top-tier (Science, Nature, PNAS). It has also archived 201 data products downloaded >400,000 times. In the process, it has engaged 1,016 participants, and >300 stakeholders from 186 organizations.
- Through its novel emphasis on integrating remote sensing, field data and modeling together with end-to-end stakeholder engagement, CMS is a leading example of Earth Science to Action.

