



Remote Sensing of Carbon Dioxide and Methane in Earth's Atmosphere

Guest Editors:

Dr. Prabir K. Patra

Department of Atmospheric
Science, The University of
Alabama in Huntsville, 320
Sparkman Dr., Huntsville, AL
35805, USA

Dr. David Crisp

Jet Propulsion Laboratory,
California Institute of
Technology, MS 233-200, 4800
Oak Grove Drive, Pasadena, CA
91109, USA

Dr. Thomas Lauvaux

Department of Meteorology and
Atmospheric Science,
Pennsylvania State University,
415 Walker Building, University
Park, PA 16802, USA

Message from the Guest Editors

Carbon dioxide (CO₂) and methane (CH₄) are the two most important greenhouse gases that have led to a significant fraction of the increase in earth's surface temperature in the past 100 years. Studies have shown that these increases in concentration are due to the increase in anthropogenic activities on the earth's surface, leading to higher emissions. However, there has not yet been a clear attribution of the processes involved in this increase of emissions and the role of other environmental factors, mainly due to the lack of observational data coverage. To alleviate the sparseness in observations, satellite remote sensing has become a major focus in the past couple of decades for monitoring greenhouse gases from space. The first dedicated mission for greenhouse gas monitoring was launched by JAXA in 2009, the Greenhouse Gases Observation Satellite (GOSAT). This Special Issue is dedicated to the past progress and new developments in satellite remote sensing of long-lived greenhouse gases, with a focus on CO and CH₄.

Deadline for manuscript
submissions:
closed (31 December 2019)





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank: JCR - Q1 (*Geosciences, Multidisciplinary*) / CiteScore - Q1 (*General Earth and Planetary Sciences*)

Contact Us

Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)