Special Issue

Greenhouse Gases: Measurements and Analysis

Message from the Guest Editor

The 5th IPCC assessment report (AR5) has presented the science of increase in carbon dioxide concentrations and global temperatures. These AR5 conclusions are consistent with previous IPCC reports. The backbone of the IPCC reports is monitoring data. As such, we need continuous measurements of greenhouse gases from local to global scales and from various platforms. These data can help to continuously test and verify our understanding of the spatial and temporal distribution of greenhouse gases. The topics include, but are not limited to: - Measurement data from land-based stations, ship-based platforms, space-based satellites, and other platforms
- Integration of measurement data
- Monitoring methods
- Using measurement data to derive emission strength
- Application of measurement data for societal benefit

Guest Editor

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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