

Title: Space-based Observations of Megacity GHG Emissions

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Session II: Carbon measurement and other related climate variables: Global systems, principals and traceability

Abstract:

Over the last decade there has been tremendous progress in space-based observations of greenhouse gases (GHGs), and methodologies have been developed to disentangle natural and anthropogenic fluxes. Sampling strategies focused on megacity emissions monitoring have emerged as one of the primary ways to quantify and monitor anthropogenic GHG emissions. We will summarize the current state-of-the-art in space-based monitoring of megacity GHG emissions, and present an architecture for a global, integrated carbon observing system with traceability to international metrology standards.

