Addressing Science and Policy Needs with Community Emissions Efforts

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Accurate, timely, and accessible emissions information is critical for understanding and making predictions about the atmosphere. We present an overview of the Global Emissions InitiAtive (GEIA, http://www.geiacenter.org/), a community-driven, joint activity of the International Global Atmospheric Chemistry/integrated Land Ecosystem-Atmosphere Process Study/Analysis, Integration and Modeling of the Earth System within the International Geosphere-Biosphere Programme. Since 1990, GEIA has served as a forum for the exchange of expertise and information on anthropogenic and natural emissions of trace gases and aerosols. GEIA supports a worldwide network of about 1300 emissions data developers and users, providing a solid scientific foundation for atmospheric chemistry research. Moving forward, GEIA seeks to build bridges between the environmental science, regulatory, policy, and operational communities. GEIA's core activities include: 1) facilitating *analysis* that improves the scientific basis for emissions data, 2) enhancing *access* to emissions information, and 3) strengthening linkages within the international emissions *community*. GEIA pursues these activities in collaboration with the Emissions of Atmospheric Compounds and Compilation of Ancillary Date (ECCAD) Project (http://pole-ether.fr/eccad) and as a member of the Group on Earth Observations Air Quality Community of Practice (http://wiki.esipfed.org/index.php/GEO_AQ_CoP). GEIA welcomes new partnerships that advance emissions knowledge for the future.

Figure 1. Schematic depiction of GEIA activities.