



## **The Integrated Global Greenhouse Gas Information System (IG3IS) First User Summit**

Phil DeCola (1), Oksana Tarasova (2), and the The Integrated Global Greenhouse Gas Information System (IG3IS) Science Team

(1) Sigma Space and University of Maryland Atmospheric and Oceanic Sciences Department, Atmospheric and Oceanic Sciences Department, United States (phil.decola@sigmaspace.com), (2) World Meteorological Organization, (3) The IG3IS Science Team

In response to the rapid rise of greenhouse gas (GHG) concentrations in the atmosphere and the resulting negative climate change impacts, nations, states, and cities, private enterprises and individuals are accelerating GHG reduction efforts while meeting the needs of global development. The urgency, complexity and economic implications of GHG reductions demand strategic investment in science-based information for planning and tracking emission reduction policies and actions. To help meet this need, The World Meteorological Organization (WMO) and its partners have initiated the development of an Integrated Global Greenhouse Gas Information System (IG3IS). IG3IS combines atmospheric GHG concentration measurements with human-activity data in a modeling and analysis framework to help decision-makers take better-informed action to reduce emissions of greenhouse gases and pollutants that reduce air quality. This service is based on existing and successful measurement and analysis methods and use-cases for which the scientific and technical skill is proven or emerging. The IG3IS Science Implementation Plan documents these good-practice capabilities and was adopted by the WMO Executive Council in June 2018.

The ultimate criterion for IG3IS success is that information provided guides additional and valuable emission-reduction actions. And in order to assure such success, IG3IS must be codeveloped with the user communities it hopes to serve - those taking actions and making policy to reduce GHG emissions. Therefore, WMO hosted the First IG3IS User Summit in November 2018 at WMO Headquarters in Geneva. This User Summit brought together key users from a number of different sectors to engage in dialogue with technical developers of IG3IS information. Stakeholders and users were invited to articulate their needs for data-driven GHG emission information, and the scientific community developing IG3IS services presented existing capabilities that either meet information needs or reframe the user considerations and the landscape of solutions under consideration. The Summit also identified gaps between current capabilities and emerging user requirements and guide IG3IS research and development for future products and services. This presentation will present the user engagement process and outcomes of the IG3IS User Summit.