



A New Global Greenhouse Gas Observation Initiative

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Earth Networks operates the largest surface weather observing and total lightning detection networks in the world and has recently embarked on a new major initiative to deploy a global system of Greenhouse Gas (GHG) observation instruments. Earth Networks will use gas calibration standards from the National Oceanic and Atmospheric Administration (NOAA) that insure compatibility with the World Meteorological Organization (WMO) scales for GHGs.

The initiative involves close collaboration with leading climate scientists and organizations including Scripps Institute of Oceanography, NOAA and NIST. In addition, data from the network will be utilized for advanced inverse atmospheric modeling applications and the development of finer scale total carbon footprints and emissions estimates for various regions across the globe. This talk will discuss the emerging global monitoring capability of Earth Networks and outline its associated plans to help advance both scientific understanding and public awareness of atmospheric greenhouse gas concentrations.