

Mapping Man-made CO₂ from Space

North America

Europe

East Asia

ODIAC fossil fuel CO₂ Emission: Fossil fuel combustion is the largest source of global carbon over decadal time scales and is the main contributor to increasing atmospheric carbon dioxide (CO₂). The Open-source Inventory for Anthropogenic CO₂ (ODIAC) model uses satellite-observed nighttime lights to track the emissions that are rapidly changing in space and time. ODIAC also uses geolocation of intense point sources such as power plants. The high-resolution (1x1km) ODIAC emission information will be used for carbon cycle analysis combined with high-density CO₂ data from NASA's Orbiting Carbon Observatory 2 (OCO2).

