**Data & Applications Online**

**Health**

**Overview**
The NASA Socioeconomic Data and Applications Center (SEDAC) offers a variety of data sets on health and the environment. Data and maps are available for download at [sedac.ciesin.columbia.edu/theme/health](http://sedac.ciesin.columbia.edu/theme/health).

**Selected Data**

**Daily and Annual PM2.5 Concentrations for the Contiguous US** is comprised of a modeled ensemble of predicted daily 1 km resolution grid cell data for 2000–2016, based on satellite data, meteorological and land-use variables, elevation, and other predictors.

**Global Annual PM2.5 Grids** consists of annual concentrations of mineral dust- and sea salt-filtered fine particulate matter combining aerosol optical depth (AOD) retrieval from NASA MODIS, MISR, and SeaWiFS satellite instruments, for 1998–2016.


**Global Summer Land Surface Temperature Grids (LSTs)** and **Global Urban Heat Island (UHI)** gridded data products represent global summer daytime maximum and nighttime minimum surface temperatures in urban areas. Urban extents are from GRUMP; LSTs are from 2013 MODIS composite data.

**Global Pesticide Grids** provides comprehensive data on the 20 most-used pesticide active ingredients, on six dominant crops and four aggregated crop classes, at 5 arc-minute resolution; for the year 2015 and projected to 2020 and 2025.

**Global 3-Year Running Mean Ground-Level NO2 Grids** represent a series of three-year running mean grids (1996–2012) of ground level NO2 derived from GOME, SCIAMACHY, and GOME-2 satellite retrievals, at 5 arc-minute resolution.

**U.S. Social Vulnerability Index (SVI) Grids** uses census data for 2000, 2010, 2014, 2016, and 2018, under themes of Socioeconomic, Household Composition/Disability, Minority Status/Language, and Housing Type/Transportation, to rank communities on vulnerability, for the entire U.S.

**Indicators of Coastal Water Quality** collection consists of a gridded data set of chlorophyll-a concentrations derived from NASA SeaWiFS satellite measurements, to identify trends 1998–2007; a tabular time series; and ancillary data.

**Agency for Toxic Substances and Disease Registry (ATSDR) Hazardous Waste Site Polygon Data** consists of 2,080 polygons for selected hazardous waste sites considered or in consideration for cleanup on the EPA National Priorities List, compiled 2010.

**Mapping Resources**

The **Hazards Mapper** visualizes socioeconomic, infrastructure, natural disaster, and environment data and map layers, to analyze potential impacts and exposure.

The **Hazards and Population Mapper (HazPop)** is a free IOS/Android mobile application that can quickly assess diverse disasters and air pollution status in relation to other data; and provide estimates of the total population in proximity to a recent hazard event or other locations.

Use the **SEDAC Map Viewer** to visualize all SEDAC data set map layers, organized by approximately 15 interdisciplinary topics, with an innovative four-window map view option. Also perform simple to advanced visualizations and analysis via **SEDAC Map Services**.