

## A Global Environmental Database Project at the CGER in National Institute for Environmental Studies

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We, the Office for Global Environmental Database, at the Center for Global Environmental Research (CGER), in National Institute for Environmental Studies (NIES), has been constructing and providing databases on several topics related to earth's global environment since early 2000s. The tasks of our project are divided into 5 major categories: 1) To construct, maintain, and renew database servers which provides our databases. 2) To construct databases and provide public/related researchers with data which were gathered by earth environmental monitoring project in our institute. 3) To construct databases on social environmental sciences related to global warming. 4) To develop convenient tools to analyze earth environmental datasets. 5) To achieve international cooperation on database-related issues.

Currently, we are providing the following databases from our server in NIES (number of databases): A) Databases on global warming: Related to greenhouse gases observations (7). Related to carbon sources/sinks (8). Related to material flow (10). Related to effect and measure of global warming (3). B) Databases on atmospheric environment: Related to stratospheric ozone layer/UV (6). Related to air pollution/acid rain (10). Related to trajectory analysis (1). C) Databases on marine/lake environment (8). D) Databases on biology (3). E) Databases on satellite remote sensing/GIS (7). F) Databases on international cooperation (7). G) Databases on other topics (6).

Current status and future plan of database project in NIES will be presented. Also, a new project related to DIAS/GRENE which started in FY2011 will be presented.

Keywords: database, global environment, global warming, ozone layer, DIAS, GRENE



The screenshot shows the homepage of the Global Environmental Database. It features a navigation menu with links for 'Home', 'About Us', 'Climate Change Research Program', and 'Activities'. The main content area is titled 'Global Environmental Database' and includes a sidebar with a list of database categories such as 'Climate Change', 'Monitoring of Greenhouse Gases', 'Carbon Sinks and Sources', 'Material Flow', 'Impact Assessment and Countermeasures', 'Atmospheric Environment', 'Stratospheric Ozone and Ultraviolet Radiation', 'Atmospheric Pollution and Acid Rain', 'Trajectory Analysis', 'Oceanic and Inland Water Environment', 'Biology, Ecosystems', 'Remote sensing, GIS', 'International Cooperation', and 'Miscellaneous'. The main text area contains an 'About the Global Environmental Database System' section, a 'Database server' image, and a list of project goals.

<http://db.cger.nies.go.jp/en/>