

CENTER FOR GLOBAL ENVIRONMENTAL RESEARCH

The Center for Global Environmental Research (CGER) was established on 1st October 1990 in the National Institute for Environmental Studies, with the aim of contributing broadly to the elucidation of, and solution for, our pressing environmental problems. The Center will achieve this goal through the following three main functions.

1. Integration of studies on the global environment

a. Research integration

- Conference/seminar for information exchange on global change research.
- Integrated Research to seek comprehensive measures to propose policy options to the global environmental problems.

b. Guest Principal Researcher & Guest Researcher

- Guest Principal Researcher system to get the advice and guide for various research programs.
- Guest Researcher system for cooperative research programs.

2. Support for global environmental research

a. Database

- CGER database system designed for the global environmental research and decision making.
- GRID-Tsukuba Center for distributing UNEP global environmental data

b. Supercomputer

- Supercomputer System (NEC SX-3 model 14) for the numerical simulation of global changes.

c. Other Center facilities

- laboratories, conference and large scale experimental facilities for studies of global change research.

3. Global Environmental Monitoring

a. Stratospheric ozone

- Monitoring of stratospheric ozone trend by Ozone Laser Radar and satellite.

b. Atmospheric trace gases

- Monitoring of distributions and trends of atmospheric trace gases on airplane and at land-based station (Monitoring Station-HATERUMA).

c. Marine pollution

- Monitoring by vessels

d. Global vegetation

- Monitoring of the variation of vegetation on global and regional scale by satellite and airplane.

Publications (in English)

CGER No.	Title
D 006-'94	GRID DATA BOOK
D 007(CD)-'95	Collected Data of High Temporal-Spatial Resolution Marine Biogeochemical Monitoring by Japan-Korea Ferry (June 1991-February 1993)
D 008-'95	GRID-TSUKUBA
D 009-'96	Data Book of Sea-Level Rise
D 0012(CD)-'97	Collected Data of High Temporal-Spatial Resolution Marine Biogeochemical Monitoring from Ferries in the east Asian Marginal Seas
D 0013-'97	Data Book of DESERTIFICATION/LAND DEGRADATION
D 0015(CD)-'97	Time series of Phytoplankton Biomass Distribution over the Northwestern Pacific Area by Monthly Composite Images from Nimbus 7-DZCS Data
D 0016-'97	Carbon dioxide emission intensity

M 003-'93

M 004-'94

I 001-'92

I 009-'93

I 010-'94

I 011-'94

I 014-'94

I 015-'94

I 016-'94

I 018-'95

I 019-'96

I 020-'95

I 021-'96

I 022-'96

I 024-'96

I 025-'97

I 028-'97

based on the Input-Output Analysis
 MONITORING REPORT ON
 GLOBAL ENVIRONMENT-1993-
 MONITORING REPORT ON
 GLOBAL ENVIRONMENT-1994-
 GLOBAL WARMING AND ECO-
 NOMIC GROWTH
 The Potential Effects of Climate
 Change in Japan
 CGER'S SUPERCOMPUTER ACTIV-
 ITY REPORT 1992 Vol. 1
 Global Carbon Dioxide Emission
 Scenarios and Their Basic Assumptions
 PROCEEDINGS OF THE TSUKUBA
 OZONE WORKKSHOP
 IPCC Technical Guidelines for Assess-
 ing Climate Change Impact and Adap-
 tations
 CGER'S SUPERCOMPUTER ACTIV-
 ITY REPORT Vol. 2-1993
 PROCEEDINGS OF THE TSUKUBA
 GLOBAL CARBON CYCLE WORK-
 SHOP - GLOBAL ENVIRONMENT
 TSUKUBA '95
 Global Warming, Carbon Limitation
 and Economic Development
 CGER's Supercomputer Activity
 Report Vol. 3-1994
 CGER's Supercomputer Monograph
 Report Vol. 1 (Turbulence) Structure
 and CO₂ Transfer at the Air-Sea Inter-
 face and Turbulent Diffusion in Ther-
 malty-Stratified Flows)
 CGER's Supercomputer Monograph
 Report Vol. 1 (A Transient CO₂ Experi-
 ment with the MRCGCM - Annual
 Mean Response-)
 CGER's Supercomputer Activity
 Report Vol. 4-1995
 CGER's Supercomputer Monograph
 Report Vol. 3 (Study on the Climate
 System and Mass Transport by a Cli-
 mate Model)
 CGER's Supercomputer Monograph
 Report Vol. 4 (Development of a global
 1-D chemically radiatively coupled
 model and an introduction to the devel-
 opment of a chemically coupled general
 circulation)

 Copies of CGER's publications can be obtained from:

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