

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.

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| <b>1. Integration of studies on the global environment</b>  | M 003-'93  | based on the Input-Output Analysis   |
| a. Research integration   |  | MONITORING REPORT ON   |
| -Conference/seminar for information exchange on global change research.   | M 004-'94  | GLOBAL ENVIRONMENT-1993-   |
| -Integrated Research to seek comprehensive measures to propose policy options to the global environmental problems.                     | I 001-'92  | MONITORING REPORT ON   |
|   |  | GLOBAL ENVIRONMENT-1994-   |
|   | I 009-'93  | GLOBAL WARMING AND ECONOMIC GROWTH   |
|   |  | The Potential Effects of Climate Change in Japan   |
| b. Guest Principal Researcher & Guest Researcher  |  | CGER'S SUPERCOMPUTER ACTIVITY REPORT 1992 Vol. 1   |
| -Guest Principal Researcher system to get the advice and guide for various research programs.   | I 010-'94  | Global Carbon Dioxide Emission Scenarios and Their Basic Assumptions   |
| -Guest Researcher system for cooperative research programs.   | I 011-'94  | PROCEEDINGS OF THE TSUKUBA OZONE WORKKSHOP   |
|   | I 014-'94  | IPCC Technical Guidelines for Assessing Climate Change Impact and Adaptations  |
| <b>2. Support for global environmental research</b>   |  | CGER'S SUPERCOMPUTER ACTIVITY REPORT Vol. 2-1993   |
| a. Database   |  | PROCEEDINGS OF THE TSUKUBA GLOBAL CARBON CYCLE WORKSHOP - GLOBAL ENVIRONMENT TSUKUBA '95   |
| -CGER database system designed for the global environmental research and decision making.   | I 015-'94  | Global Warming, Carbon Limitation and Economic Development   |
| -GRID-Tsukuba Center for distributing UNEP global environmental data  | I 016-'94  | CGER's Supercomputer Activity Report Vol. 3-1944   |
| b. Supercomputer  |  | CGER's Supercomputer Monograph Report Vol. 1 (Turbulence) Structure and CO <sub>2</sub> Transfer at the Air-Sea Interface and Turbulent Diffusion in Thermal-Stratified Flows)                     |
| -Supercomputer System (NEC SX-3 model 14) for the numerical simulation of global changes.   | I 018-'95  | CGER's Supercomputer Monograph Report Vol. 1 (A Transient CO <sub>2</sub> Experiment with the MRICGCM - Annual Mean Response-)   |
| c. Other Center facilities  |  | CGER's Supercomputer Activity Report Vol. 4-1995   |
| -laboratories, conference and large scale experimental facilities for studies of global change research.                                | I 019-'96  | CGER's Supercomputer Monograph Report Vol. 3 (Study on the Climate System and Mass Transport by a Climate Model)   |
|   |  | CGER's Supercomputer Monograph Report Vol. 4 (Development of a global 1-D chemically radiatively coupled model and an introduction to the development of a chemically coupled general circulation) |
| <b>3. Global Environmental Monitoring</b>   |  | CGER's Supercomputer Activity Report Vol. 5-1996   |
| a. Stratospheric ozone  | I 020-'95  |  |
| -Monitoring of stratospheric ozone trend by Ozone Laser Radar and satellite.  | I 021-'96  |  |
| b. Atmospheric trace gases  |  |  |
| -Monitoring of distributions and trends of atmospheric trace gases on airplane and at land-based station (Monitoring Station-HATERUMA). | I 022-'96  |  |
| c. Marine pollution   |  |  |
| -Monitoring by vessels  |  |  |
| d. Global vegetation  |  |  |
| -Monitoring of the variation of vegetation on global and regional scale by satellite and airplane.                                      | I 024-'96  |  |
| 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)       | I 028-'97  |
| 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         | I 030-'97  |
| 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  |  |

Copies of CGER's publications can be obtained from:  
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