New Contents of the Symbol Exhibit Geo-Cosmos released
- A spherical display, 6.5 m in diameter with the image of the "Earth viewed from space today"-

The National Museum of Emerging Science and Innovation (Director Mamoru Mohri, Aomi Koto-ku Tokyo) released the new contents of the symbol exhibit, the Geo-Cosmos, starting July 17th (Sat.) as a part of the memorial event for the 3rd anniversary on the opening of the museum.

The symbol exhibit Geo-cosmos is a spherical display, 6.5 m in diameter, which floats on the open space of the National Museum of Emerging Science and Innovation from the 1F to the 6F. On this display consolidating the latest technology, approx. one million LED (Light Emitting Diodes) are mounted and it will display contents of "Earth viewed from space today" and "Simulation of the Greenhouse effect."

This time 4 contents were newly added. This is the latest eco-research which Japan is proud to present, such as the circulation model of the ocean and atmosphere calculated by the world's fastest supercomputer's "earth simulator," and the global weather forecasting system, which the world is starting to pay attention to. These contents were created to project to the Geo-Cosmos under the cooperation of various research institutes and researchers. Please enjoy the future earth, which will be presented through the whole sphere. The contents, which will be introduced, are listed on the following.

1. Global Chemical Weather Forecasting System

It is a forecast of air pollution on a global scale, which was calculated by the Frontier Research Center for Global Change of Independent Administrative Institution, Japan Agency for Marine-Earth Science and Technology. You can view how air pollutants cross the continents and boarders, from Europe to East Asia, and from East Asia to North America and from North America to Europe.
2. Ocean/Atmospheric Circulation Model

i) OFES Ocean General Circulation Model for the Earth Simulator
ii) AFES Atmospheric General Circulation Model for the Earth Simulator

The above are the contents of the Ocean and the Atmosphere based on the calculated data using the world's fastest computer, the "Earth Simulator." This simulation is conducted by two institutes, the Frontier Research Center for Global Change and the Earth Simulator Center of the Independent Administrative Institution, Japan Agency for Marine-Earth Science and Technology. The simulation of the speed of change of the current and the seasonal changes of sea temperature and distributing simulation for rainfall will be displayed realistically on the entire sphere.

3. Global Forecast Model Animation

If is a forecast system created by the National Centers for Environmental Predictions (NCEP), National Oceanic and Atmospheric Administration (NOAA), and was visualized by the University of Wisconsin. Not only limited to the weather forecast of the districts of Japan seen regularly, you can also see weather changes on a world scale.

* For those who wish to receive information on this data, please contact the below mentioned Public Relations Division.

For information on this release, please contact:
Mr. Mutsuhiko Masuda (press@miraikan.jst.go.jp), Ms. Chika Sato (press@miraikan.jst.go.jp)
Person in charge of photographs: Ms. Yumi Nishi (press@miraikan.jst.go.jp)
National Museum of Emerging Science and Innovation
TEL: +81-3-3570-9192/ FAX: +81-3-3570-9160