

Evaluation of global warming and cooling on the viewpoint from Earth history

Shigeru Otoh[1]; Shuichi Yanai[2]

[1] Dept. Earth Sci., Fac. Sci., Univ. Toyama; [2] J-Geo.com

We will discuss the global warming in 21 Century, predicted by IPCC 4th Report, from the standpoint of Earth history. The Earth has experienced 6 times of mass extinction during the last 540Ma, including the death of dinosaurs at 65Ma. In spite of various causes for those mass extinctions, the direct impact may be short-term cooling by the dust screen or clouds which shut down sun energy. If it is related to the Galactic cosmic radiations, more serious biological evolution would occur.

Regardless what are they in origin, global cooling had been serious for evolving life, but not global warming. It has led a great diversification of life and increase biomass through the Phanerozoic. Nevertheless, the mass media and some scientists have given an opposite view contradictory to the geological common sense.