Title	Introduction of the session on Global Change
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Citation	Intenational Symposium "Toward a Sustainable Low Carbon Society -Green New Deal and Global Change-". 4-5 November 2009. Sapporo, Japan.
Issue Date	2009-11-05
Doc URL	http://hdl.handle.net/2115/39929
Туре	conference presentation
Note	Intenational Symposium "Toward a Sustainable Low Carbon Society -Green New Deal and Global Change-" PartII Global Change. 5 November 2009. Sapporo, Japan.
File Information	introduction.pdf

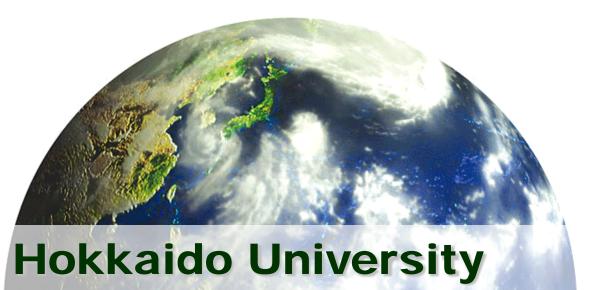


Green New Deal and Global Change

Global Change

Earth system change and its feedbacks with human society: agriculture, fisheries and water resources

Sustainability Weeks 2008 -G8 Summit Round





G8 Summit Symposium (June, 2008) Drastic Change in the Earth System during Global Warming

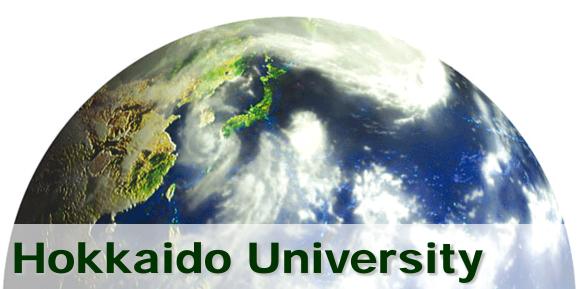
Five hot issues

- 1. Clarify causes and magnitude of sea level rise
- 2. Decay of glaciers and Greenland and Antarctic ice sheets
- 3. When will summer Arctic sea ice disappear?
- 4. Carbon uptake or emission by terrestrial ecosystem
- 5. Marine ecosystem change resulting in carbon emission

Scientific clarification is required on mechanisms which yield positive feedback in the earth system.

Reliable projection on distinct indicators is crucial.

Sustainability Weeks 2009



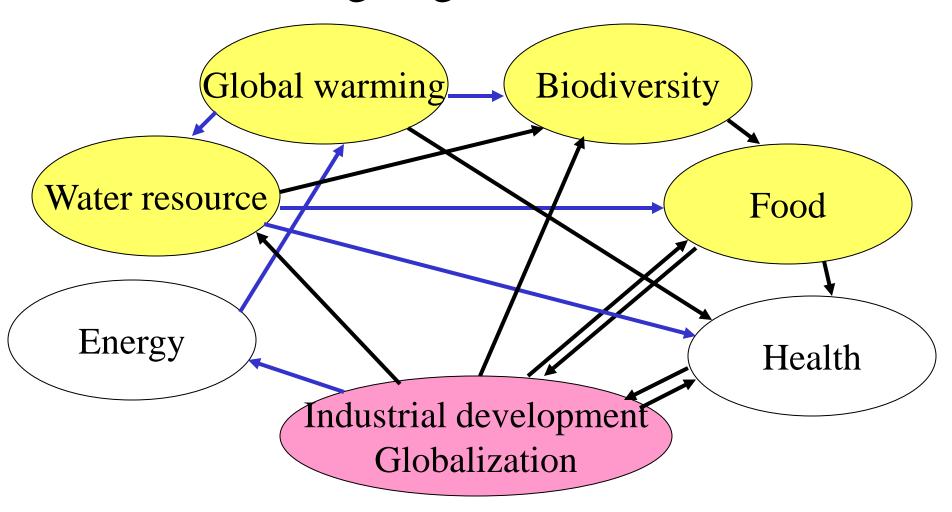


Earth system change and its feedbacks with human society

Linkages among four crucial components

- 1-1. Polar region change interacting with global climate (D. Yang, J. Oh, M. Ikeda)
- 1-2. Terrestrial and marine bio-geochemical systems (S. Samdan, H. Shibata, A. Andreev, Y. Watanabe)
- 2-1. Fisheries and agriculture under global change (C. Zhang, M. Kaeriyama, H. Oselebe, G. Brierley, Y. Chi, H. Araki)
- 2-2. Water resources under global change(T. Matsushita, T. Yamada, T. Fujiwara, T. Imai, M. Takaoka)

Feedbacks among Urgent Issues



Once each issue gets worse, it worsens the others. Can we solve all issues at once?