The Science Council of Japan (SCJ)

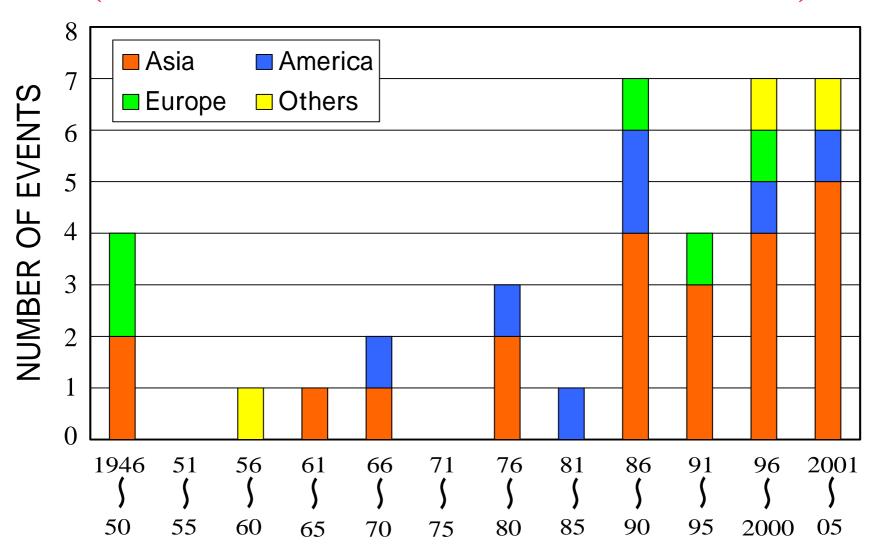
Special Task Committee:

Creation of safe and Secure Societies against Global Change of Natural Disasters

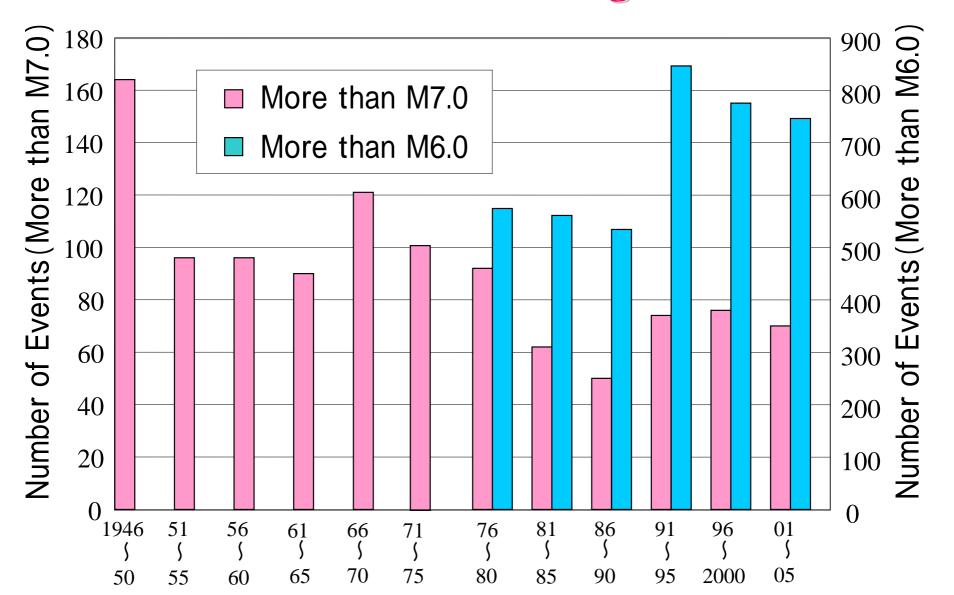
Themes:

- 1. Forecast of natural hazards resulting in disasters (earthquake and tsunami, volcano eruption, storm, heavy rain, high tidal wave, etc.)
- 2. Evaluation of social hazards in national land-use and social structures against disasters, and forecast of future natural disasters
- 3. Basic policies and measures for creation of safer and more secure society
- 4. Roles and responsibilities of the Science Council of Japan for natural disaster mitigation

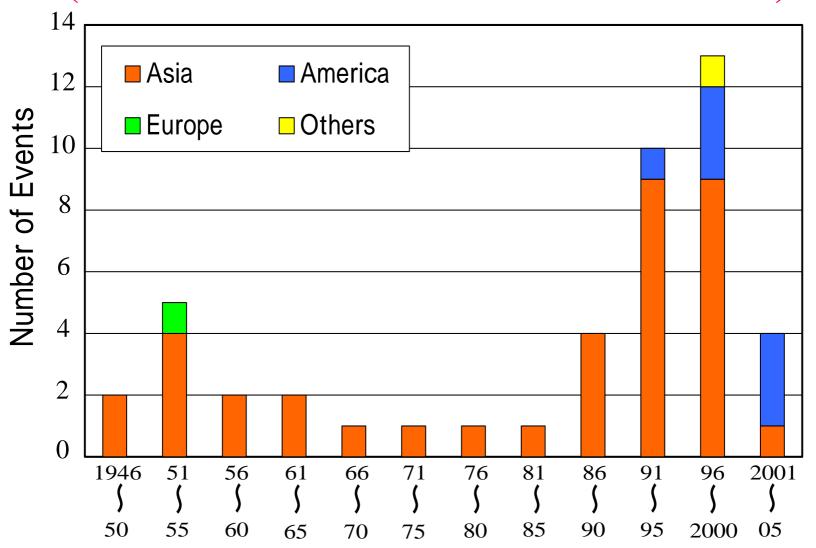
Damaging Earthquakes and Tsunamis in the World during Last 60 Years (Events with more than 1000 casualties)

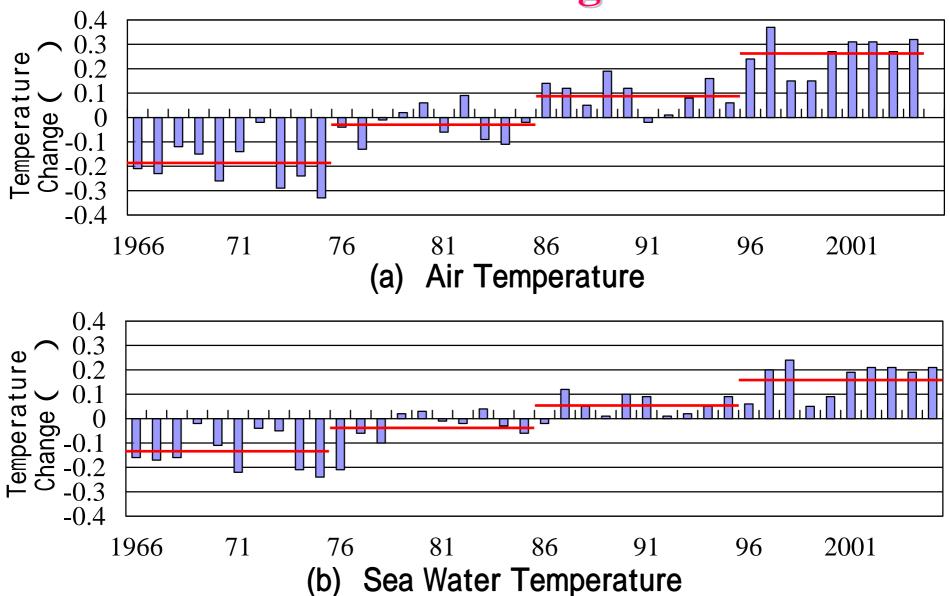


Number of Earthquakes with Magnitudes More³ than 7 and More than 6 during Last 60 Years



Damaging Storms and Floods in the World during Last 60 Years (Events with more than 1000 casualties)



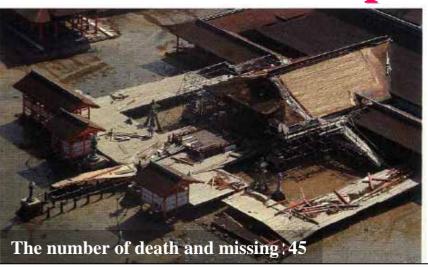


Recent Flood and Storm Disasters in Japan





2005 Flood in Tokyo

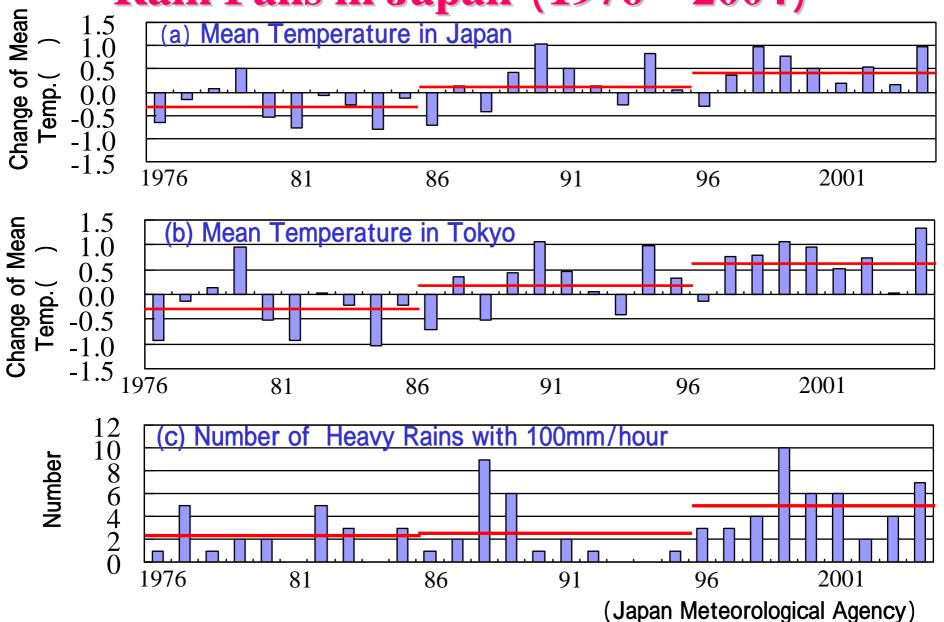


2004 Itsukushima-shrine severely damaged by Typhoon No.18(Hiroshima)



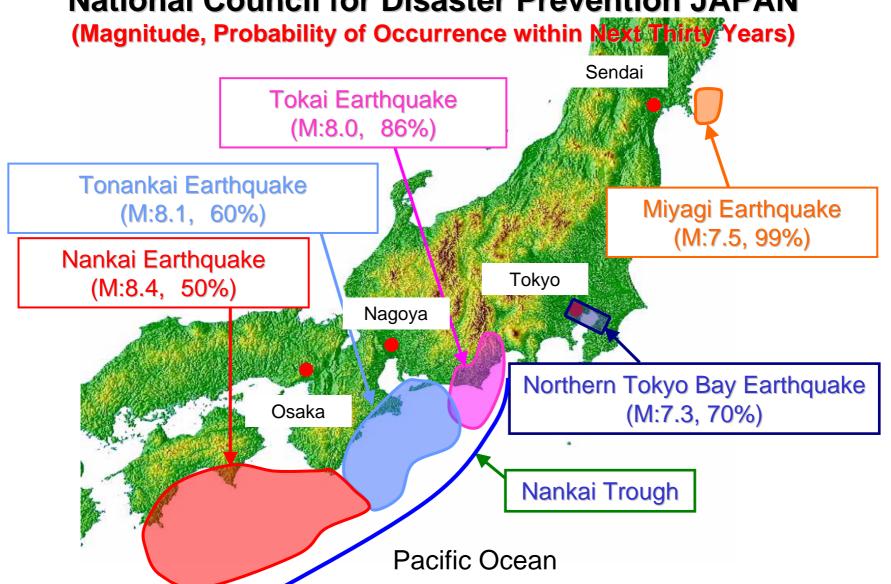
1999 Flood in Fukuoka

Change of Mean Temperature and Rain Falls in Japan (1976 ~ 2004)



Future Earthquakes with High Probabilities to Hit The Mega Cities in Japan

National Council for Disaster Prevention JAPAN



Request for Advisory from Minister of Land, ⁹ Infrastructure and Transport to SCJ President

 Policies on Infrastructure Development for Disaster Mitigation under Global Change of Natural and Social Circumstances

Themes:

- 1. Forecast of future natural hazards resulting from the changes of global environments.
- 2. Evaluation of hazards in national land-use and social structures and evaluation of vulnerability of existing infrastructures.
- 3. Proposals of basic policies and measures for improvement of national land-use plan and for development of infrastructures.

Contents of the Report

- 1. Forecast of natural hazards
- 2. Evaluation of vulnerabilities in land-use and social systems
- 3. Basic policies for creation of safer and more secure society
- 4. Measures for the improvement of national land-use plan and for the reinforcement of existing infrastructures
- 5. Roles and responsibilities of SCJ for natural disaster mitigation

Propositions

Propositions for Policies and Measures by SCJ Committee (1)

- (1) Paradigm change from short-period view of efficiency of economics to long-term view of creation of safe and secure society
- (2) Stable and long-term tax spending for measures of improvement of land-use and social systems, and reinforcement of infrastructures
- (3) Reforms of the national land-use by decentralization of population and properties, particularly, by establishment of back-up systems to secure the capital function of Tokyo
- (4) Improvement of both soft ware and hardware measures against huge natural disasters with low probability of occurrence

Propositions for Policies and Measures by SCJ Committee (2)

- (5) Unified and synthesized policies among ministries, governmental offices and concerned authorities
- (6) Creation of disaster-awareness society by education of people and by transfer of knowledge and experiences of past disasters to next generations
- (7) Encouragement of NPO and NGO's activities for natural disaster preparedness, and for rescue and recovery operation
- (8) International cooperation and assistance in developing countries under the consideration of the characteristics of disasters, cultures and histories

Roles of the Science Council of Japan for Natural Disaster Mitigation

- 1) Promotion of research on high accuracy prediction of natural hazards (Earthquake, Tsunami, Storm, Volcano Eruption, etc)
- 2) Promotion of development of technologies and social systems for disaster mitigation, involving various fields (Nature Science, Engineering, Human Science, Life Science, etc)
- 3) Continuous participation in policy making by propositions to government and communities based on scientific accomplishment
- 4) Promotion of internationally cooperative research activities on disaster mitigation