

**【Abstract of 2008 Grant – in – Aid for Scientific Research on Innovative Areas
(Research in a proposed research area)】**

Title of project	Coral Reef Science –Strategy for Ecosystem Symbiosis and Coexistence with Human-beings under Multiple Stresses
Head Investigator Name	Hajime Kayanne
Abstract of Research Project Term of Project: 2008–2012	<p>Coral reefs are symbiotic and coexistence system among ecosystem, landform and human being at various levels. They are now under threats of degradation and destruction by local human stresses and global warming.</p> <p>Coral reef science aims to construct a model of reef response to the multiple stresses, and to develop monitoring and diagnosis procedures based on the model to propose a guideline for threshold level of the stresses, restoration and regeneration of the ecosystem. It will provide a scientific basis to reconstruct a symbiotic and coexistence system between human being and coral reefs, and ecosystems in general for the future generations.</p>