



Focusing on coral reef island systems located in the Ryukyu Arc as well as in the tropical and subtropical western Pacific, we are elucidating the connections between land and sea through the water cycle, the biocultural diversity and community capability, and the evolution and structure of organizations and institutions that govern the use and management of multiple resources.

By integrating and visualizing the above interconnected components, we aim to shed light on adaptive governance of multiple resources based on the water cycle.







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Please check our website for more details! LINKAGE Project website:

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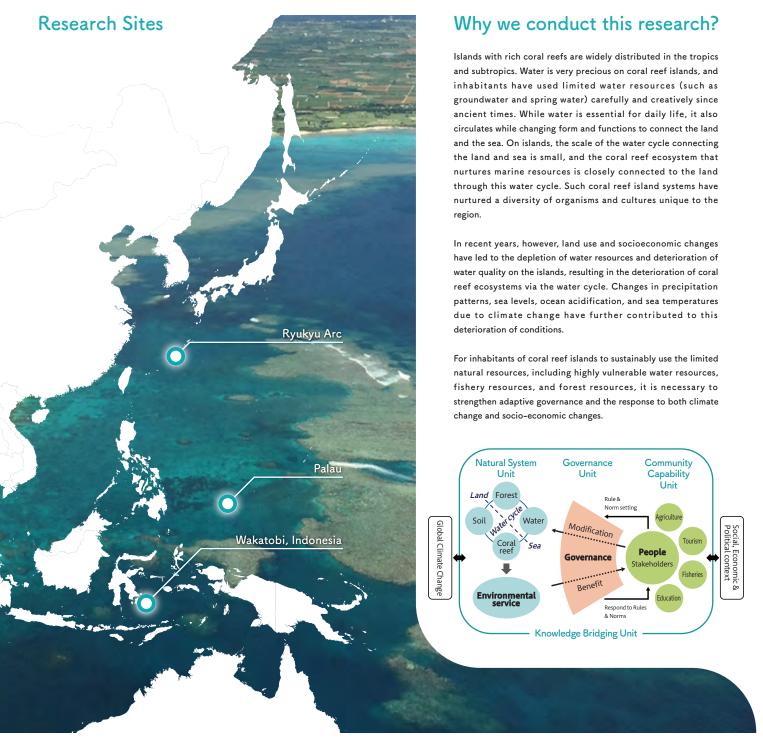


Research Institute for Humanity and Nature (RIHN)

Adaptive Governance of Multiple Resources based on Land-Sea Linkages of the Water Cycle: Application to Coral Reef Island Systems

(LINKAGE Project)





Research Organization and Planning

We would like to implement the followings to study how people can sustainably use islands' limited multi-resources such as water resources, fisheries resources, and forest resources in the tropical and subtropical western Pacific, Ryukyu Arc, Indonesia and Palau.

1) We will first clarify the actual state of the water cycle and multiple resources by analyzing groundwater and coral reef ecosystems, and understand and predict the responses of multiple resources to socio-economic changes and climate change.

► Natural System Unit

2) Through the approach of historical ecology, we will focus on the diverse values and linkages between humanity and nature living in coral reef Islands, and clarify the mechanisms of Island Community Capability with the limited natural resources.

► Community Capability Unit

3) Through behavioral science and institutional analysis, we will clarify the transition and multilayered nature of the system, organization, and awareness of adaptive governance.

▶ Governance Unit

4) We will act as a bridge to create new value by visualizing and integrating the relationships between scientific knowledge, indigenous knowledge, policy knowledge, and other knowledge necessary for adaptive governance.

► Knowledge Bridging Unit

Through these results, we hope to shed light on the connections between land and sea through water cycle as well as on the adaptive governance of multiple resources, in order to contribute to the realization of a resilient nature-symbiotic society in coral reef island systems.

