

Environmental annual history and rise and fall of the rice-cultivating and fishing civilization by the study of annually laminated sediments

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【Outline of survey】

A reconstruction of environment with high resolution using annually laminated sediments was developed first in Japan among Asian country and the works are highly regarded in the world. The annually laminated sediment analyses will make yearly base reconstruction of the history of environment in Asian-Pacific region, e.g. climatic change, deforestation, possible and help to understand how the environmental changes affected the rise and falls of civilization around the area. This research includes

1. Yearly base reconstruction of the environmental change in the Asia-Pacific region during the past 10000 years.
2. Revealing the relationship between the change in water condition and the rise and fall of the Mekong civilization which is represented by Angkor site.
3. The relationship between the environment change and the rise and fall of the Indonesia civilization which is represented by Borobudur site
4. Revealing the relationship between the environment change and the rise and fall of the civilization in Asia-Pacific islands which is represented by Easter Island.
5. Revealing the relationship between the change in the environment change and the rise and fall of the civilization in East Asia especially in Yangtze River basin and Japan where people engaged in rice growing and fishing.

【Expected results】

Public trends toward reevaluating the civilizations with rice agriculture and fishing which sustainable developments are possible will be made by the analysis of effects of environment change on the rise and fall of civilizations of Mekong and Yangtze River basins. It is important to built the sustainable civilized society in 21st Century. This study will hint the way of development of sustainable society in Asia-Pacific region where rice agricultural people and fishermen are living in the period with many natural disasters and climatic fluctuation.

【References by the principal researcher】

- Yasuda, Y. (ed.): Monsoon and Civilization. Lustre Press and Roli Books, 2004
- Yasuda, Y.: *Bunmei no Kankyoshikan* (History of Civilization from the Environmental Point of View). Chukososhoh, 2004.

【Term of project】 FY2006 - 2010

【Budget allocation】 35,000,000 yen

【Homepage address】

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