RIHN 6th International Symposium

Beyond Collapse:

Transformation of human-environmental relationships, past, present and future

October 26 - 28, 2011 Kyoto, Japan

Organized by

The Research Institute for Humanity and Nature (RIHN)
National Institutes for the Humanities (NIHU)
Inter-University Research Institute Corporation

PREFACE

Is human history one of success or failure? The Holocene has been a period of dramatic environmental change and remarkable human achievement. In the sciences, arts, technologies—and in sheer number—homo sapiens has advanced itself, remaking the world and redefining the human experience.

Yet many individual human societies have remained deceptively fragile despite their successes. Seemingly unaware of critical thresholds in their systems, peoples and civilizations have fallen, one after the other.

Humankind now inhabits a 'planet under pressure': will human societies degrade the essential sources of their collective wellbeing, or do immanent technologies and human ingenuity still offer the possibility of transformation? The 'Anthropocene' is a period of ever-greater promise and ever-greater precarity.

But are there not other interpretations? As humanity is closely bound together by institutional, material and cultural ties, perhaps human civilization has become 'too big to fail'. There is concern for climate and social 'instability'—not collapse—and consequently to the particularities of social and ecological vulnerability and resilience.

Based on the results of four concluding RIHN research projects, this symposium assesses the processes of collapse, continuity and transformation in two historical and two contemporary contexts.

Session Program

Session 1: New ecologies of disease:

Observing and theorizing human-pathogen interactions

The field of disease ecology examines interactions between pathogen, host and human actions that create or diminish 'fertile' disease environments. With specific attention to how human actions cascade through specific environments, this session examines pathogen-host population dynamics in several ecological contexts. How should human societies cope with new environments and disease ecologies?

Session 2: Beyond collapse: The case of Indus Civilization

The Indus Civilization (2600 BC—1900 BC) was one of the four great ancient civilizations—and apparently the most short-lived. Its 'collapse' has been described for decades, yet recent research shows that the civilization went through a process of decentralization in the midst of dramatic environmental change, with continuities perhaps more significant than ruptures.

Session 3: Transformation of human society and environment in Central Eurasia

In the 20th century, Central Eurasia experienced drastic transformation in social, political, and economic systems—including rapid modernization under, and collapse of, socialism—with great impact on local lifestyles and use of natural resources. This session describes these transformations in relation to environmental change and continuing human adaptation in the region, seeking structural explanations of environmental problems and new perspectives on sustainability in arid and semi-arid regions.

Session 4: Building resilient communities in the semi-arid tropics

Nearly half of the global population is dependent on primary industry, especially agriculture, and therefore particularly vulnerable to contemporary climate change and variability. What social, economic and ecological dynamics affect resilience of small farmers in semi-arid tropics to current climate anomalies?

PROGRAM

Wednesday - 26 October, 2011

Opening Session

Chair: UYAR, Aysun (RIHN)

10:30-10:40	Opening Remarks TACHIMOTO Narifumi (Director-General, RIHN)
10:40-10:50	Objectives of the Symposium NILES, Daniel (RIHN) / ABE Ken-ichi (RIHN)
10:50-12:00	Keynote Address VAN DER LEEUW, Sander (Arizona State University, USA)
12:00-13:30	Lunch

Session 1 New ecologies of disease: Observing and theorizing human-pathogen interactions

Chair: KAWABATA Zen'ichiro (RIHN)

13:30-14:10	Beyond Pandemics and Global Instability: Cultivating Peripheral Vision for Transformation WALTNER-TOEWS, David (University of Guelph, Canada)
14:10-14:50	Ecosystem Dynamics, Biological Diversity and Their Impacts on Zoonotic Infectious Diseases GUÉGAN, Jean-François (UMR IRD-CNRS-Universities of Montpellier I and II, France)
14:50-15:00	Coffee break
15:00-15:40	Koi Herpesvirus Disease as a Model of Environmental Disease MINAMOTO Toshifumi (RIHN)
15:40-16:20	The Impact of Anthropogenic Environmental Influences on Freshwater Snails and the Implications for Snail-borne Disease Transmission Risks in Kenya LANGE, Charles N. (National Museums of Kenya, Kenya)
16:20-17:00	Discussion

<u>Thursday – 27 October, 2011</u>

Session 2 Beyond collapse: The case of Indus Civilization

Chair: ONISHI Masayuki (RIHN)

9:00-9:40	Paleoclimate During the Last 20,000 Years in Asia-Pacific Region YOKOYAMA Yusuke (<i>University of Tokyo, Japan</i>)
9:40-10:20	Decline of the Indus Civilization and the Role of Agriculture WEBER, Steven (Washington State University Vancouver, USA)
10:20-11:00	Observations about Arrival of the Āryas GOTŌ Toshifumi (<i>Tohoku University, Japan</i>)
11:00-11:40	Collapse or Transformation?: Beyond Environmental Determinism for the Indus Civilization OSADA Toshiki (RIHN)
11:40-12:20	Discussion
12:20-13:30	Lunch

Session 3 Transformation of human society and environment in Central Eurasia

Chair: KUBOTA Jumpei (RIHN)

13:30-14:10	'No One can be Separated from the Other': The Curse of Relatedness
	and Ethnopolitics in Contemporary China
	BULAG, Uradyn E. (University of Cambridge, UK)
14:10-14:50	Typology of Agro-Pastoral Complex in Inner-most Eurasia under the
	Light of Geo-History
	OHJI Toshiaki (Kyoto University, Japan)
14:50-15:00	Coffee break
15:00-15:40	Agricultural Development and Transformation of Nature in Soviet
	Central Asia: Theoretical Background and Reality
	CHIDA Tetsuro (Hokkaido University, Japan)
15:40-16:20	Socialist Modernization and Transformation of Natural Resource Use in
	Central Eurasia
	WATANABE Mitsuko (RIHN)
16:20-17:00	Discussion

Friday – 28 October, 2011

Session 4 Building resilient communities in the semi-arid tropics

Chair: LEKPRICHAKUL, Thamana (RIHN)

9:00-9:40	Social-Ecological Regime Shifts: Collapse, Traps, and Transformations PETERSON, Garry (<i>Stockholm University, Sweden</i>)
9:40-10:20	Ingredients for Social-Ecological Resilience, Poverty Traps, and Adaptive Social Protection in Semi-Arid Africa TSCHAKERT, Petra (Pennsylvania State University, USA)
10:20-11:00	Trajectories of Adaptation: A Retrospectus for Future Dynamics NELSON, Donald (<i>University of Georgia, USA</i>)
11:00-11:40	Dynamics of Social-Ecological Systems: The Case of Farmers' Food Security in Semi-Arid Tropics UMETSU Chieko (RIHN)
11:40-12:20	Discussion
12:20-13:30	Lunch

Session 5 Synthesis

Chairs: NILES, Daniel (RIHN) & SATO Yo-Ichiro (Deputy Director-General, RIHN)

13:30-13:45	Synthesis of Session 1 KAWABTA Zen'ichiro (RIHN)
13:45-14:00	Synthesis of Session 2 OSADA Toshiki (RIHN)
14:00-14:15	Synthesis of Session 3 KUBOTA Jumpei (<i>RIHN</i>)
14:15-14:30	Synthesis of Session 4 UMETSU Chieko (RIHN)
14:30-14:40	Comments VAN DER LEEUW, Sander (Arizona State University, USA)
14:40-14:50	Coffee break
14:50-15:50	Roundtable Discussion
15:50-16:00	Closing Remarks WATANABE Tsugihiro (Deputy Director-General, RIHN)
16:00-	Excursion