AFRICAN STUDY MONOGRAPHS

Supplementary Issue

No. 55

2018



THE CENTER FOR AFRICAN AREA STUDIES KYOTO UNIVERSITY

AFRICAN STUDY MONOGRAPHS

ıl Board

	F	

Motoki TAKAHASHI Center for African Area Studies (CAAS), Kyoto Univ.

Development Economics

Editors:

Hirokazu HIGUCHI Graduate School of Agriculture, Kyoto Univ. Tropical Agriculture

Jun IKENO CAAS, Kyoto Univ. Rural Sociology
Morie KANEKO CAAS, Kyoto Univ. Cultural Anthropology
Daiji KIMURA CAAS, Kyoto Univ. Anthropology, Area Studies

Hidetoshi KONDO Department of Foreign Languages, Kansai Gaidai Univ. Cultural

Anthropology

Junko MARUYAMA Department of International and Cultural Studies, Tsuda College.

Anthropology, Area Studies

Michio NAKAMURA Graduate School of Science, Kyoto Univ. Primatology
Takehiko OCHIAI Faculty of Law, Ryukoku Univ. Political Science
Toru SAGAWA Faculty of Letters, Keio Univ. Social Anthropology

Hiroki SATO CAAS, Kyoto Univ. Tropical Ecology

Yasuaki SATO Faculty of Human Environment, Osaka Sangyo Univ. Ethnobotany Daisuke SHINAGAWA Research Institute for Languages and Cultures of Asia and Africa,

Tokyo Univ. of Foreign Studies. Linguistics

Shoko YAMADA Graduate School of International Development, Nagoya Univ.

Educational Sociology

Gen YAMAKOSHI CAAS, Kyoto Univ. Conservation Biology
Hirokazu YASUOKA CAAS, Kyoto Univ. Ecological Anthropology
Editorial Assistants:

Aki KISHIDA

CAAS, Kyoto Univ.

Advisory Board

Shigeru ARAKI Matthias BRENZINGER	Emeritus Professor, Kyoto Univ. Soil Science School of African and Gender Studies, Anthropology and
	Linguistics, Univ. of Cape Town. Linguistics
Shinya FUNAKAWA	Graduate School of Global Environmental Studies, Kyoto Univ.
	Soil Science, Environmental Agronomy
Abel G.M. ISHUMI	School of Education, Univ. of Dar es Salaam. Educational
	Sociology
Shigeki KAJI	Kyoto Sangyo Univ. Linguistics
Motoji MATSUDA	Graduate School of Letters, Kyoto Univ. Urban Anthropology
Yoichi MINE	Graduate School of Global Studies, Doshisha Univ.
	Development Economics
Katsuya MOCHIZUKI	Department of International Cooperation, Graduate School of Toyo
	Eiwa Univ. International Relations
Junko MOTOGI	Faculty of Science and Engineering, Hosei Univ. African Literature
Masato NAKATSUKASA	Graduate School of Science, Kyoto Univ. Physical Anthropology
Yoko NAGAHARA	Graduate School of Letters, Kyoto Univ. History
Toshimasa NISHIYAMA	Department of Public Health, Kansai Medical Univ.
	Tropical Medicine, Travel Medicine

All letters should be addressed to:

Shuhei SHIMADA

Editorial Office of African Study Monographs, The Center for African Area Studies, Kyoto University 46 Yoshida-Shimoadachi-cho, Sakyo-ku, Kyoto 606-8501, JAPAN

of Foreign Studies, Economic Geography

Department of Global Governance and Collaboration, Nagoya Univ.

E-mail: asm@jambo.africa.kyoto-u.ac.jp URL: http://jambo.africa.kyoto-u.ac.jp/asm/index.html Copyright by The Center for African Area Studies, Kyoto University, March 1, 2018. Printed by Nakanishi Printing Co., Ltd.

AFRICAN STUDY MONOGRAPHS

Supplementary Issue

No. 55

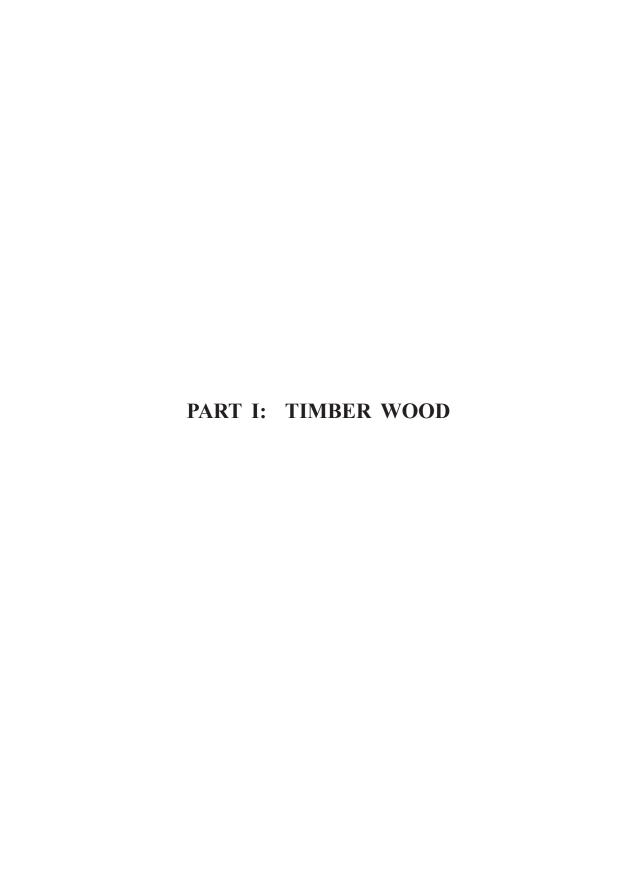
2018

Resources Vitalizing Local Societies in Tanzania

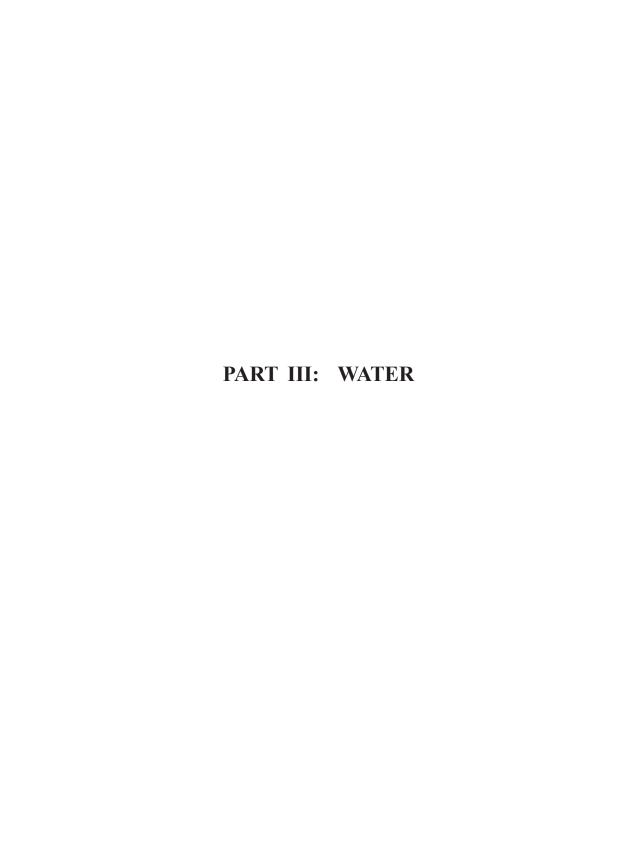
Edited by Jun IKENO, Gen UEDA, & Ueru TANAKA

CONTENTS

Jun IKENO: Preface	1
PART I: TIMBER WOOD	
Gen UEDA: Quick Cash or Income Maximization: Economic Significance of Premature Harvesting for Farm Forestry Smallholders in the Mount Meru Area, Tanzania	7
Sayaka OGAWA: Impact of Imported Chinese Furniture on the Local Furniture Sector in Arusha City, Tanzania: Focusing on the Strategies of Furniture-makers for Using Indigenous Timber Species	27
PART II: FRUIT TREES	
Hirokazu HIGUCHI & Kanako TAKATA: Similarity of Homegarden Component Species and Their Genetic Distance between Tanzania and Indonesia	51
David Gongwe MHANDO & Jun IKENO: Production and Marketing of Orange in Two Villages in Muheza District, Tanzania	85
PART III: WATER	
Jun IKENO: Intra- and Inter-Sectorial Competition for Water Resources around Mwanga Town in Kilimanjaro Region, Tanzania	101
Mohammed Ali SHEIKH, Ali Habib ALI, Aflah Abeid KHAMIS, Rashidi Juma RASHIDI, Hassan Rashid ALI, Jun IKENO & Ueru TANAKA: Quality of Groundwater from Open-wells in Rural and Peri-urban Areas of Unguja Island, Zanzibar, Tanzania	119
PART IV: FISH	
Mariko FUJIMOTO: Economic Impact of the <i>Dagaa</i> Processing Industry on a Coastal Village in Zanzibar, Tanzania	145









African Study Monographs, Supplementary Issues

- No. 1 J. Itani & M. Ichikawa (eds.), 1982: A Comparative Study of Ecological Anthropology in Tropical Africa.
- No. 2 H. Ishida, S. Ishida & M. Pickford (eds.), 1984: Study of the Tertiary Hominoids and their Palaeoenvironments in East Africa: 2.
- No. 3 J. Tanaka (ed.), 1984: Study on Human Behavior and Adaptation in Arid Areas of Africa.
- No. 4 M. Kakeya (ed.), 1985: A Comparative Study of Human Ecology around the Woodland in Central Africa.
- No. 5 H. Ishida & S. Ishida (eds.), 1987: Study of the Tertiary Hominoids and their Palaeoenvironments in East Africa: 3.
- No. 6 M. Kakeya (ed.), 1987: A Comparative Study of Human Ecology around the Woodland in Central Africa (II).
- No. 7 M. Ichikawa, 1987: A Preliminary Report on the Ethnobotany of the Suiei Dorobo in Northern Kenya.
- No. 8 H. Terashima, M. Ichikawa & M. Sawada, 1988: Wild Plant Utilization of the Balese and the Efe of the Ituri Forest, the Republic of Zaire.
- No. 9 Y. Ankei, 1989: Folk Knowledge of Fish among the Songola and the Bwari: Comparative Ethnoichthyology of the Lualaba River and the Lake Tanganyika Fishermen.
- No. 10 I. Ohta, 1989: A Classified Vocabulary of the Turkana in Northwestern Kenya.
- No. 11 J. Takeda, 1990: The Dietary Repertory of the Ngandu People of the Tropical Rain Forest: An Ecological and Anthropological Study of the Subsistence Activities and Food Procurement Technology of a Slash-and-Burn Agriculturist in the Zaire River Basin.
- No. 12 S. Sato (ed.), 1990: Comparative Study on the Socio-Ecological Adaptation Mechanism among Nomadic Peoples.
- No. 13 T. Ankei, 1990: Cookbook of the Songola: An Anthropological Study on the Technology of Food Preparation among a Bantu-speaking People of the Zaire Forest.
- No. 14 O. Hieda, 1991: Koegu Vocabulary, with a Reference to Kara.
- No. 15 H. Terashima, S. Kalala & N. Malasi, 1991: Ethnobotany of the Lega in the Tropical Rain Forest of Eastern Zaire: Part One, Zone de Mwenga.

- No. 16 H. Terashima, M. Ichikawa & I. Ohta (eds.), 1991: Aflora Catalog of Useful Plants of Tropical Africa, Part I: Forest Areas.
- No. 17 H. Ishida & K. Yasui (eds.), 1992: Palaeontological and Geological Surveys in the Sinda-Mohari Regions of the Western Rift, Zaire.
- No. 18 E-D. Hecht, 1992: Basketwork of Harar.
- No. 19 H. Terashima, S. Kalara & N. Malasi, 1992: Ethnobotany of the Lega in the Tropical Rain Forest of Eastern Zaire: Part Two, Zone de Walikale.
- No. 20 H. Ishida & H. Nakaya (eds.), 1994: Faunal Change of Late Miocene Africa and Eurasia: Mammalian Fauna from the Namurungule Formaiton, Samburu Hills, Northern Kenya.
- No. 21 M. Nakatsukasa, 1994: Morphology of the Humerus and Femur in African Mangabeys and Guenons: Functional Adaptation and Implication for the Evolution of Positional Behavior.
- No. 22 J. Tanaka & K. Sugawara (eds.), 1996: Socio-Cultural Studies of the San Hunter-Gatherers of Kalahari.
- No. 23 J. Takeda, 1996: The Ngandu as Hunters in the Zaïre River Basin.
- No. 24 H. Ishida & M. Nakatsukasa (eds.), 1996: Morphological Studies of the Postcranium of Kenyapithecus Discovered from Nachola, Northern Kenya.
- No. 25 M. Ichikawa (ed.), 1998: Man and Nature in Central African Forests.
- No. 26 J. Tanaka, M. Ichikawa & D. Kimura (eds.), 2001: *African Hunter-Gatherers: Persisting Cultures and Contemporary Problems*.
- No. 27 T. Widlok & K. Sugawara (eds.), 2001: Symbolic Categories and Ritual Practice in Hunter-Gatherer Experiences.
- No. 28 M. Ichikawa & D. Kimura (eds.), 2003: Recent Advances in Central African Hunter-Gatherer Research.
- No. 29 M. Shigeta & Y. Gebre (eds.), 2005: Environment, Livelihood and Local Praxis in Asia and Africa.
- No. 30 K. Mizuno (ed.), 2005: Studies on the Environmental Change and Human Activities in Semi-Arid Area of Africa.
- No. 31 X. Sun, 2005: Dynamics of Continuity and Change in Pastoral Subsistance among the Rendille Northern Kenya: With Special Reference to Livestock Management and Responses to Socio-Economic Change.
- No. 32 H. Ishida & H. Tsujikawa (eds.), 2005: Study of the Tertiary Hominoids and Their Palaeoenvironments in East Africa: 7.

- No. 33 M. Ichikawa & H. Yasuoka (eds.), 2006: Ecology and Change of the Hunter-Gatherer Societies in the Western Congo Basin.
- No. 34 S. Araki (ed.), 2007: Indigenous Agriculture in Tanzania and Zambia in the Present Environmental and Socioeconomic Milieu.
- No. 35 J. Ikeno (ed.), 2007: African Coffee Economy at the Crossroads: The Cases from Tanzania, Ethiopia & Rwanda.
- No. 36 J. Itani & M. Araki (eds.), 2007: Rural Development Reconsidered: People's Responses to Globalization in Tanzania.
- No. 37 I. Ohta, 2007: Bridewealth Negotiations among the Turkana in Northwestern Kenya.
- No. 38 A. Motingea M. & M. Bonzoi, 2008: Aux Sources du Lingála: Cas du Mbenga de Mankanza Nouvel Anvers.
- No. 39 J. Yamagiwa (ed.), 2008: Fruit Phenology and Ecology of Sympatric Gorillas and Chimpanzees in Tropical and Montane Forests.
- No. 40 K. Mizuno (ed.), 2010: Historical Change and its Problem on the Relationship between Natural Environments and Human Activities in Southern Africa.
- No. 41 B.A. Tarsitani, S. Tarsitani & M. Shigeta (eds.), 2010: Preserving Local Knowledge in the Horn of Africa: Challenges and Prospects for Collaborative Research in Oral Literature, Music and Ritual Practices.
- No. 42 J. Ikeno (ed.), 2011: Food Security and Livelihood in Rural Africa: Basic Conditions and Current Trends.
- No. 43 M. Ichikawa, D. Kimura & H. Yasuoka (eds.), 2012: Land Use, Livelihood, and Changing Relationships Between Man and Forests in Central Africa.
- No. 44 S.P. Bonimy & G. Yamakoshi, 2012: Dictionnaire d'Aprentissage Maawe (Manon)-Français: Mots, Dialogues, et Expressions Courantes.
- No. 45 G. Atindogbe, 2013: A Grammatical Sketch of Mòkpè (Bakweri), Bantu A20.
- No. 46 M. Kaneko & M. Shigeta (eds.), 2013: Gender-based Knowledge and Techniques in Africa.
- No. 47 H. Sato, T. Yamauchi, K. Hayashi & D. Kimura (eds.), 2014: *Bio-social Adaptations of the Baka Hunter-gatherers in African Rainforest.*
- No. 48 M. Shigeta, Mamo Hebo & M. Nishi (eds.), 2014: *Livelihood, Development and Local Knowledge on the Move*.

- No. 49 M. Hirai, H. Yasuoka, B-A. Nkongmeneck & M. Ichikawa (eds.), 2014: An Integrated Study on Non-Timber Forest Products in Southeastern Cameroon: Toward Conservation and Sustainable Use of Tropical Forest.
- No. 50 I. Ohta, S. Oyama, T. Sagawa & S. Ichino (eds.), 2014: Conflict Resolution and Coexistence: Realizing African Potentials.
- No. 51 D. Kimura (ed.), 2015: Present Situation and Future Prospects of Nutrition Acquisition in African Tropical Forest.
- No. 52 A. Takada (ed.), 2015: Natural History of Communication among the Central Kalahari San.
- No. 53 S. Konaka & X. Sun (eds.), 2017: Localization of Humanitarian Assistance Frameworks for East African Pastoralists.
- No. 54 A. Takada (ed.), 2018: Reconstructing the Paradigm of African Area Studies in a Globalizing World.
- No. 55 J. Ikeno, G. Ueda & U. Tanaka (eds.), 2018: Resources Vitalizing Local Societies in Tanzania.