

"Report for Ramsar COP11 on Good Practices for Enhancing Biodiversity in Rice Paddy Ecosystem in Japan, Korea and Other Asian Countries"

CONTENTS

Foreword

- Resolution/ Decision on Biodiversity in Rice Paddy
 - i) Ramsar COP10 Res.X.31: Enhancing biodiversity in rice paddies as wetland systems
 - ii) CBD COP10 Dec. X/34: Agricultural biodiversity

a) Outline

a-1) Findings from Researches for Organisms of Rice Paddies

- a-1-1) Biodiversity of Rice Paddies Shigeki Iwabuchi and T.Iwabuchi
- a-1-2) Biodiversity in Rice Paddies Masayuki Kurechi

a-2) Concept and Models of Integrated Biodiversity Management (IBM) in Rice Paddies

- a-2-1) Integrated Biodiversity Management (IBM) in Rice Paddies Keizi Kiritani
- a-2-2) Integrated Biodiversity Management in Paddy Fields:
 - Shift of Paradigm from IPM toward IBM Keizi Kiritani

a-3) Inventory of Organisms in Rice Paddies

- a-3-1) Biodiversity in Rice Paddy I (poster) Aiko Furuya
- a-3-2) Biodiversity in Rice Paddy II (poster) Aiko Furuya
- a-3-3-1) Inventory of Organisms in Rice Paddies (Fauna) edited by Keizi Kiritani
 - a-3-3-1-1) Insecta
 - a-3-3-1-2) Araneomorpha & Acaromorpha
 - a-3-3-1-3) Amphibians & Reptiles
 - a-3-3-1-4) Fishes
 - a-3-3-1-5) Molluscs
 - a-3-3-1-6) Crustaceans & Rotifers
 - a-3-3-1-7) Nematoda & Annelida
 - a-3-3-1-8) Birds
 - a-3-3-1-9) Mamals
 - a-3-3-1-10) Protista & Cyanobacteria
- a-3-3-2) Inventory of Organisms in Rice Paddies (Flora) edited by Keizi Kiritani
 - a-3-3-2-1) Plants
 - a-3-3-2-2) Bryopsida

b) Comprehensive Reports

b-1) Traditional Use and Availability of Aquatic Biodiversity in Rice-based Ecosystems (FAO)

- b-1-1) I. Kampong Thom Province, Kingdom of Cambodia Tonette & Peter Balzer with Sybora Pon
- b-1-2) II. Xishuangbanna, Yunnan, People's Republic of China Luo Aidong
- b-1-3) III. Xieng Khouang and Houa Phan Provinces, Lao PDR Xaypladeth Choulamany
- b-1-4) IV. Lai Chau and Hoa Binh Provinces, Viet Nam Eric Meusch
- b-1-5) V. Rice-fish Farming Tradition and Current Practices in Northwestern Viet Nam Eric Meusch
- b-1-6) Utilization of Aquatic Biodiversity in Mountainous Rice-based Ecosystems of China and Viet Nam
FAO

b-2) Comprehensive Programs Based on Enhancing Biodiversity of Surrounding Rice Paddies of Kabukuri-numa Wetland

- b-2-1) Restoring Rice Paddy Wetland Environments and the Local Sustainable Society – Project for Achieving Co-existence of Rice Paddy Agriculture with Waterbirds at Kabukuri-numa, Miyagi Prefecture, Japan – Masayuki Kurechi
- b-2-2) Activities for Co-existing Rice Agriculture with Over-wintering Geese in Kabukuri-numa and Surrounding Rice Paddies Masayuki Kurechi

b-3) Comprehensive Programs to Protect Rice Paddy Biodiversity in the Lake Biwa Watershed

- b-3-1) Practices for Conserving Paddy Field Biodiversity in the Basin of Lake Biwa, a Ramsar Wetland
Taisuke Ohtsuka
- b-3-2) The “Yurikago Suiden” Project: Has This Effort to Revive Paddy Fields as Fish Nurseries Succeeded? Toshiyuki Hazama & Akihiro Hori
- b-3-3) Winter Flooding Provides a Habitat for Threatened Fish and Amphibians in a Hilly Area Paddy Field
Satoyo Ono & Taisuke Ohtsuka
- b-3-4) Predation by Crucian Carp Larva/Fry Visualizes Biological Interactions of Paddy Field Community
Taisuke Ohtsuka & Shigehumi Kanao
- b-3-5) Pioneer Studies on Some Microscopic Organisms: an Unknown Aspect of Species Diversity in Paddy Fields
Taisuke Ohtsuka and Takahito Suzuki
- b-3-6) An Important Factor Limiting the Distribution of Large Branchiopods in Shiga Prefecture, Japan: Moisture Content of Rice Paddy Soil in Winter
Masako Maeda, Y.Kusuoka, M.J. Grygier, T.Ohtsuka & others
- b-3-7) Aquatic Animal Assemblages Inhabiting the Rice Fields in Shiga Prefecture, Central Japan
Yasuo Mukai .
- b-3-8) Sustainability of “Rice of Takashima Ikimono Tambo” standing on Market Sympathy
Kiyoshi Honda

b-4) Environmental Construction of Municipal Communities for Co-existence with Waterbirds

b-4-1) Social Development and Regional Regeneration through Re-introducing Oriental White Stork and
Enhancing Biodiversity of Rice Paddy in Toyooka, Japan. Hitoshi Miyagaki, Toyooka City

b-4-2) Sado's Satoyama in Harmony with Japanese Crested Ibis - The Sado GIAHS Project -
Koichiro Takano, Sado City

b-4-3) Osaki, the City Which Attracts Migratory Birds - its Efforts for Co-existence of Agriculture and
Wildlife - Industrial Policy Section, Osaki City

b-4-4) Project for the Nature-Symbiotic Community Development – Noda City, Chiba Prefecture
Takashi Nemoto, Noda City

b-5) Programs to Enhance Biodiversity of Rice Paddies in Tsunami Attacked Areas by Great East Japan Earthquake

b-5-1) Tohoku Green Renaissance Projects - Rebuilding from 3.11 Disaster Shigeki Iwabuchi

b-5-2) Restoration from the Tsunami through Resilience of Ecosystem Tsubasa Iwabuchi

c) Reports on Special Fields

c-1) Soil Microbial Diversity

c-1-1) Advocacy of Positive Environmental Assessment Using Soil Microbial Diversity and its Vitality Value
Naomi Sakuramoto, K.Yokoyama & T.Iekushi

c-1-2) A New Index for Right Agriculture, "Soil Microbial Diversity *Vitality Value (SMDVV)"
Naomi Sakuramoto

c-1-3) Soil Microbial Diversity and Its Vitality Value - Vitalize Agriculture, Vitalize Local People -"
Naomi Sakuramoto

c-2) Waterbirds and Rice Paddies

c-2-1) Summer-flooded Fields and Shorebirds - Creating Stopover Sites for Shorebirds on their Fall
Migration in Summer-flooded Wheat Rotation Fields- Aiko Furuya

c-2-2) Bird Use of Rice Fields in Korea and Japan
Masahiro Fujioka, Sang Don Lee, Masayuki Kurechi and Hoshiko Yoshida

c-3) Information provided by Ministry of Agriculture, Forestry and Fisheries of Japan

c-3-1) Handbook for Nurturing Living Things in Rice Paddies and Other Agricultural Fields (excerpts)

c-3-2) Guidebook on Living Things Trademark (excerpts)

d) International Symposia on Practical Use of Rice Paddy Resolution X.31

**d-1) TAKASHIMA WORKSHOP - International Workshop on Rice Paddy and Wetland Conservation:
Best Practices in Asia (Takashima, Japan , August 6–7, 2010): abstracts & full papers**

[Summary]

- d-1-1) Summary of Workshop
- d-1-2) Sustainable Rice Paddy Management for the CBD 2020 Target (Aichi Biodiversity Target)
Hiroji Isozaki
- d-1-3) An Urgent Need in Asia: Effective Rice Paddy-related Legislation for Wetland and Biodiversity
Conservation
Amado Tolentino
- d-1-4) Where do we go from here?
Rebecca D'Cruz
- d-1-5) Case on Kabukuri-numa and Surrounding Rice Paddies: Beyond CBD COP10
Masayuki Kurechi
- d-1-6) Intensification of Malaysia Rice Agro Ecosystems Based on Sustainable Development in Enhancing
Rice Production
Mashhor Mansor
- d-1-7) System of Rice Intensification (SRI) Method; a Boon for Rice Paddy Farmers
of Chilika Lake Basin, India
Ajit Pattnaik
- d-1-8) Rice Production and a Vision for Mekong's Wetlands
Nguyen Duc Tu
- d-1-9) Making Rice Paddy Compatible with Wetland Conservation Objective
Bishnu B. Bhandari
- d-1-10) Rice Paddy as a Climate Change Adaptation option in the Wetlands of Bangladesh
Sanowar Hossain
- d-1-11) Sustainable Rice Paddy for Floodplain Ecosystem Conservation
under Emerging Climate Change: Case of Bangladesh
M. Aminul Islam
- d-1-12) The Satoyama Initiative -Advancing Socio-Ecological Production Landscapes
for the Benefit of Biodiversity and Human Well-being-
Yoshihiro Natori
- d-1-13) Rice Paddy Wetlands in China
Chen Kelin
- d-1-14) Biodiversity on Rice paddy
Takeshi Kiuchi
- d-1-15) Comparisons of Bird Communities of Organically and Conventionally Grown Rice Field in Korea
Woo Shin Lee

[Full Reports]

- d-1-16) All Reports; Successful Cases on Sustainable Rice Paddy Farming Practices
and Wetland Conservation in Asia
Published by MOEJ

d-2) ASIAN WETLAND SYMPOSIUM (AWS) Wuxi, China, 11-13 Oct. 2011:

Session V: Wetlands and agriculture (Follow up Rice Paddy Resolution X.31)

- d-2-1) Effective Governance of Rice Paddies for Wetland and Biodiversity Conservation
Amado Tolentino
- d-2-2) Abundance and its Local Movement of Odonata in Manik Ramburg Rice Field,
North of Sumatera-Indonesia

Ameilia Zuliyanti Siregar, Che Salmah Md. Rawi, and Zulkifli Nasution

- d-2-3) The Role of the Business Sector for the Conservation and Wise Use of Wetlands
- Aleph's Activity on Rice Paddies Yoshinori Hashibe
- d-2-4) The Revitalization of our Regional Community and Economy through Stork Conservation:
Challenge for Toyooka City, Hyogo Muneharu Nakagai
- d-2-5) What is the Farmland Use that Suits Natural Environment around Lagoon
in Shiga Prefecture in Japan? Rie Oasa, Etsuji Hamabata
- d-2-6) Reintroduction of Crested Ibises to Rice Paddies in Sado Koichiro Tanako
- d-2-7) Creating the Way towards Co-existence of Community and the Japanese Crested Ibis
Kojiro Mori, Lu Jun

d-3) International Symposia for the Creation of a Japan/Korea Local Government Network for Implementing Ramsar Resolution X.31 Enhancing Biodiversity in Rice Paddies as Wetland Systems.- Bugok, Gyeongsangnam-do, 27 April – 1 May 2012"

-Session 1. Local Government's Effort to Enhancing the Biodiversity in Rice Paddy-

- d-3-1) Project to Make Use of Multi-function of Rice Paddies in Osaka City Masahiro Maruta
- d-3-2) The Revitalization of Our Regional Community and Economy through Stork Reintroduction
- The Challenge for Toyooka City - Muneharu Nakagai
- d-3-3) Restoration of Crested Ibis and Rice Paddies in Sado Is. Motonari Kai
- d-3-4) Crested Ibis Restoration in Korea Sungbong, Lee
- Session 2. Case Study of Rice Paddy Biodiversity Enhancement Activity in S.Korea and Japan-
- d-3-5) A Rice Farming together with Oriental White Stork Osamu Oka
- d-3-6) Good Practices of Rice Paddy Farming Enhancing Biodiversity in Japan Masayuki Kurechi
- d-3-7) A Challenge to Enhancing the Rice Paddy Biodiversity in Gyeongnam Province Chanwoo Lee
- d-3-8) The Living Environment Agriculture Living Environment Agriculture Inst.
- d-3-9) Bugok_Declaration_

d-4) Ramsar COP11 Side Event

- d-4-1) Enhancement of Biodiversity in Rice Paddies as Wetland Ecosystem
Ramsar Network Japan & Korean Network on Rice Paddy Wetlands/
supported by MOEJ, MAFFJ, FAO, JICA

e) Othres

e-1) Song of *Fuyumizu-tambo* (Winter-flooded Rice Paddy)

- e-1-1) Words & music: _Japanese Takuji Tanaka

- e-1--2) Song: "*Fuyumizu-tambo*"(winter-flooded rice paddy) in Japanese vocal: Takuji Tanaka & Children
e-1-3) Song: "_Children Chorus_"*Fuyumizu-tambo*" vocal:"Fuyumizu-tambo" Children Chorus
e-1--4) Words: Korean Kim Fan
e-1-5) Song: "*Fuyumizu-tambo*" in Korean MMM-Mama's Moment Musical
e-1-6) Words: English Ayako Takahashi
e-1-7) Song: "Winter-flooded Rice Fields Forever" in English vocal: David

e-2) Song and dance of *Fuyumizu-Tango*

e-2-1) Song and dance of *Fuyumizu-Tango*

e-2-2) Song full version

e-2-3) Words: Japanese & English

Music, Words by IIDA Masaharu / Vocal: MATSUHASHI Megumu / English Words by SUZUKI Akiko

Credit: Aleph-Inc.

e-3) List of authors and organizations and others contributed to this report