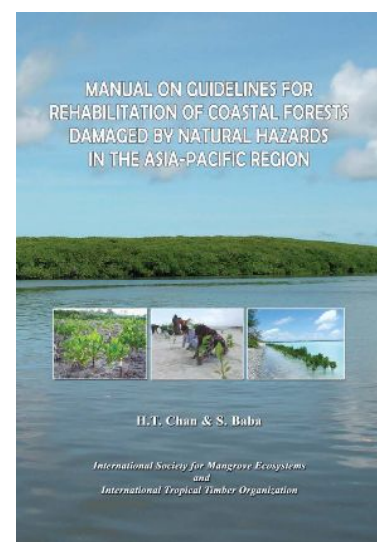


## ***Manual on Guidelines for Rehabilitation of Coastal Forests Damaged by Natural Hazards in the Asia-Pacific Region***

ISME has recently published a *Manual on Guidelines for Rehabilitation of Coastal Forests Damaged by Natural Hazards in the Asia-Pacific Region*. It is an output of the ITTO/ISME Pre-Project [ITTO/ISME PPD134/07 Rev. 1(F)] entitled *Restoration of Mangroves and other Coastal Forests Damaged by Tsunamis and other Natural Hazards in the Asia-Pacific Region*.

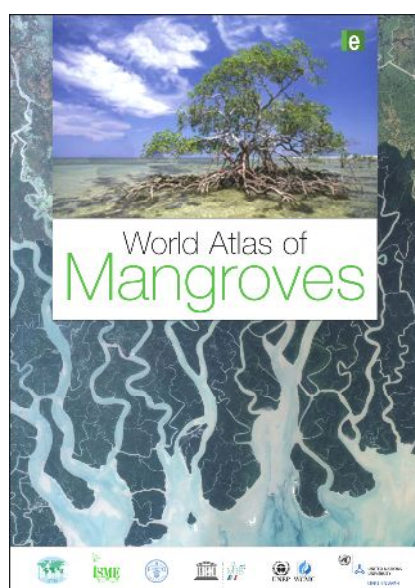
The manual includes introductory chapters on coastal forests (mangrove forests, beach and dune forests, and forests of coral islands), natural hazards (tsunamis, tropical

cyclones, coastal erosion and sea-level rise), and protective roles of coastal forests. The main chapter has an overview (concepts and rationale, and rehabilitation efforts), and guidelines for rehabilitation of mangroves and other coastal forests. The guidelines include the rationale for rehabilitation; choice of species; site selection and preparation; propagation and planting; monitoring and tending; and case studies. The case studies provide useful lessons of success and failure of past and on-going projects in coastal forest rehabilitation.



PDF copies will be made available on ISME website before long. Hard copies are now available from ISME at US\$15 per copy for postage and handling fee. Please contact: [isme@mangrove.or.jp](mailto:isme@mangrove.or.jp)

## ***Revised World Mangrove Atlas***



In 1997, ITTO/ISME published the first World Mangrove Atlas in collaboration with World Conservation Monitoring Center (WCMC). The Revised World Mangrove Atlas is being prepared by ITTO and ISME in collaboration with Food and Agriculture Organization (FAO), UNESCO Man and Biosphere (MAB) Programme, UNEP-WCMC, United Nations University-International Network on Water, Environment and Health (UNU-INWEH), and The Nature Conservation (TNC), with major funding from ITTO.

The lead authors and editors of the

Atlas are Mark Spalding, Mami Kainuma and Lorna Collins.

Section I of the Atlas will have three chapters on Mangrove Ecosystems, Mangroves and Man, and Mangrove Mapping. Section II will entail regional overviews and country/area profiles. Regions will include Eastern Indian Ocean, Eastern Asia and Australia, Pacific Ocean, the Americas, and Central and West Africa. There will be 10 case studies on mangroves with range maps and line drawings of species.

The English version of the Atlas, a 304-page book with 61 full color maps, is expected to be published by Earthscan in UK by December 2009.

## JICA Training Courses

Each year, ISME conducts three JICA Training Courses. They are:

- 1) Sustainable Utilization of Mangrove Ecosystems (May-August, 12 weeks);
- 2) Environmental Education for Sustainable Development - Conservation of Coastal Ecosystems for Lives of Local Communities (September-November, 6 weeks); and
- 3) Management and Reforestation of Mangroves (4 weeks).

So far, over 100 participants have completed the Courses, and are actively carrying out mangrove-related tasks in their home countries.

In 2008, the course on *Management and Reforestation of Mangroves* was conducted from 10 November to 5 December. Started since 2007, this country-focused training course for India was designed to help participants to understand the roles and importance of mangrove ecosystems, and to gain knowledge in field techniques for conservation and sustainable management of mangrove ecosystems. Five participants from India attended the course.

The course was conducted at the Okinawa International Centre (OIC) in Okinawa and at the Tropical Biosphere Research Centre in Iriomote. Other venues included the Earth Remote Sensing Data Analysis Centre (ERSDAC) and the JICA Research Institute, both in Tokyo.

Participants spent the last few days of the course discussing and preparing their individual proposed action plans. They presented their action plans on the final day in OIC before receiving their course completion certificates from JICA and ISME.



Participants, lecturers, and coordinator of the training course in Iriomote (Photo by S. Yamagami)

## New Members

### - BANGLADESH -

Khan, MD. Nabiul Islam  
Khulna University, Bangladesh

### - BRAZIL -

Carneiro, Iara  
Departamento de Educaçao Ambiental, Brazil

### - CHINA -

Mizuno, Shinichiro  
Matsushita Electric Works, Ltd., Hong Kong

### - COLOMBIA -

Otero Duran, Ivonne  
Botanical Garden of Bogota, Bogota, Colombia

Penaranda Leon, Carolyn Daysi  
School for Cooperative Education and Work  
Barranquilla, Colombia

Perdomo, Laura  
Institute of Marine and Coastal Research  
Santa Marta, Colombia

### - DOMINICAN REPUBLIC -

Matarranz Rodriguez, Antonio Esteban  
Secretariat of Environment and Natural Resources  
Santo Domingo, Dominican Republic

### - FIJI -

Navoku, Sainivalati Yaraveicoi  
World Wide Fund for Nature, Suva, Fiji

### - FRANCE -

Hartmann, Hans Julian  
Universite de La Rochelle, France

### - INDIA -

Babusingh, Prasad Jagdish  
Vadodara Circle, Raopura, Vadodara, India

Jashubha, Parmar Mahendrasinh  
Sabarkantha Divivision, Himatnagara, Gujarat, India

Navalsinh, Jadeja Lakhadhirsinh  
Kutch Forest Division, Arihant Nagar, Gujarat, India

Paul, Ashok Kumar  
Silviculture Division,  
Andaman & Nicobar Islands, India

Rajee, George  
Forest Training School  
Andaman & Nicobar Islands, India

### - INDONESIA -

Basyuni, Mohammad  
Center of Molecular Biosciences  
University of the Ryukyus, Okinawa, Japan

**- JAPAN -**

Amemiya, Ikko  
NPO International Coral and Mangrove Action,  
Shibuya, Tokyo, Japan

Ando, Sumio  
Tsuyama, Okayama, Japan

Arakaki, Izuru  
Nishihara, Okinawa, Japan

Arakaki, Minoru  
Nishihara, Okinawa, Japan

Fukasawa, Mizuki  
Naha, Okinawa, Japan

Horikiri, Kazuyo  
Yomitan, Okinawa, Japan

Ida, Atsuo  
Chigasaki, Kanagawa, Japan

Masui, Hiroaki  
Tokorozawa, Saitama, Japan

Miura, Rie  
Suginami, Tokyo, Japan

Okabe, Hiroyuki  
Shinagawa, Tokyo, Japan

Ono, Katsuhiro  
Yokohama National University, Yokohama, Japan

Suzuki, Yoshihito  
Iwata, Shizuoka, Japan

Takizawa, Tadashi  
Sousa, Chiba, Japan

Tamura, Masayuki  
Kyoto University, Kyoto, Japan

Tuji, Aiko  
Nakano, Tokyo, Japan

Yamano, Masakuni  
Edogawa, Tokyo, Japan

**- KENYA -**

Bosire, Jared Ombati  
Kenya Marine and Fisheries Research Institute  
Mombasa, Kenya

Wato, Yussuf Adan  
Mombasa, Kenya

**- MALAYSIA -**

Ibrahim, Sulong Bin  
Kolej Universiti Sains Dan Teknologi Malaysia  
Kuala Terengganu, Malaysia

Mohamad Zakaria, Rozainah  
University of Malaya, Kuala Lumpur, Malaysia

Parish, Faizal  
Global Environment Centre, Selangor, Malaysia

Salam, Ainon Binti  
Kota Kinabalu City Bird Sanctuary, Sabah, Malaysia

Singh, Harinder Rai  
University Teknologi Mara, Selangor, Malaysia

Sulai, Petra Bin  
Dept. of Wildlife and National Park, KL, Malaysia

Tangah, Joseph  
Forest Research Centre, Sandakan, Sabah, Malaysia

**- MEXICO -**

Carrillo Noh, Luis Enrique  
National Commission of Natural Protected Areas  
Campeche, Mexico

Ciau Cardozo, Eduar Abrisel  
National Commission of Natural Protected Areas  
Yukatan, Mexico

Gomez Hernandez, Sandra Patricia  
Ministry of Rural Development, Jalisco, Mexico

**- MOROCCO -**

Amimi, Taha  
Min. of Land Management, Water and Environment  
Rabat, Morocco

**- MYANMAR -**

Aung Myo San  
Forest Dept., Min. of Forestry, Yangon, Myanmar

**- PHILIPPINES -**

Mauricio, Romana Atienza  
Dept of Environment and Natural Resources  
Laguna, Philippines

**- SENEGAL -**

Diobate, Bacary  
Min. of Environment, Linguera, Senegal

**- TAIWAN -**

Sheue, Chiou Rong  
National Chiayi University, Taiwan

**- THAILAND -**

Suksamran, Rakchat  
Royal Forest Department, Bangkok, Thailand

Wodehouse, Dominic Charles John  
Krabi, Thailand

**- VIETNAM -**

Le, Tuan Lam  
Ha Long Bay Management Dept. Viet Nam



## Updates on ISME/GLOMIS Electronic Journal

The following are recent issues available on the GLOMIS Website:

- **Volume 7, No. 2 (March 2009):**  
Management implications of the Sibyte Mangrove Forest Reserve in Sabah based on inventory data (Tangah, J. and Lohuji, P.L.)
- **Volume 7, No. 1 (January 2009):**  
Chemical constituents of leaves of *Rhizophora x lamarckii*, *R. apiculata* and *R. stylosa* (Chan, E.W.C. and Wong, S.K.)
- **Volume 6, No. 1 (October 2008):**  
ASTER imagery of forest areas of Sundarban damaged by cyclone Sidr (Akhter, M., Iqbal, Md. Z. and Chowdhury, R.M.)
- **Volume 5, No. 2 (November 2006):**  
Barnacle infestation on the bark of *Kandelia candel* (L.) Druce and *Aegiceras corniculatum* (L.) Blanco (Maxwell, G.S. and Li, S.W.)

ISME/GLOMIS Electronic Journal is a peer-reviewed on-line journal dedicated to inform mangrove scientists on scientific knowledge and issues related to mangroves.

To view the articles, please visit GLOMIS at  
**<http://www.glomis.com>**.

### *Membership of ISME*

**Individual membership:**

JPY2,000 or US\$20 annually;

**Life membership:**

JPY20,000 or US\$200;

**Institutional membership:**

JPY25,000 or US\$250 annually.

UNESCO coupons and international postal money-order are acceptable. We also accept Visa, MasterCard, and American Express. Please avoid cheques. For further information, contact ISME Secretariat. Your contribution is appreciated. Your donation for the Society is also welcomed.

### *News from your country*

If you have any news from your country or your work concerning mangrove ecosystems that you wish to see published in the ISME newsletter, please forward it to ISME Secretariat.

### *Send articles/publications of mangrove to ISME Secretariat*

ISME is organizing GLOMIS. Please send articles/publications concerning mangroves and mangrove ecosystems to ISME Secretariat.

### Mangroves, ISME Newsletter (ISSN 0917-3676)

Produced by

International Society for Mangrove Ecosystems (ISME)

ISME Secretariat: c/o Faculty of Agric., Univ. of the Ryukyus, Nishihara, Okinawa 903-0129 Japan

<http://www.mangrove.or.jp>

<http://www.glomis.com>

Executive Secretary: Prof. S. Baba

Manuscript preparation, layout & typesetting:

Dr. H.T. Chan, Ms. N. Oshiro and Dr. M. Kainuma

### **ISME Secretariat**

c/o Faculty of Agriculture, University of the Ryukyus  
Nishihara, Okinawa 903-0129  
Japan