



Handbook of Mangroves in Indonesia

- Bali & Lombok -

Shozo Kitamura
Chairil Anwar
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Cover photo and illustrations:

- front cover photo :
fruits of *Sonneratia alba*
- front cover background :
pneumatophores (aerial roots) of
Sonneratia alba
- back cover photo :
flowers of *Bruguiera cylindrica*
and assortment of mangrove fruits

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Ministry of Forestry Indonesia and
Japan International Cooperation Agency

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Cover illustration: pneumatophores of *Sonneratia alba* on
Gili Sulat Island in Lombok.

F o r e w o r d

Mangrove represent a rich and diverse living resource. Mangrove forests are now recognized as being a major protector of coastal environments and a valuable national economic resource.

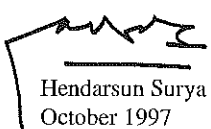
Nowadays, the awareness of coastal communities to the importance of mangrove forest conservation has been increasing. However, the total area of mangrove forests in Indonesia has been declining due to human activities.

The government of Indonesia has taken various initiatives to address the problems of mangrove forest resource degradation including replanting of degraded mangrove areas, and establishment of greenbelts along the coast line with local participation for the protection of coastal resources. It is, therefore, essential for us to develop appropriate sustainable technologies for mangrove rehabilitation.

In this respect, the Ministry of Forestry of Indonesia and Japan International Cooperation Agency have implemented the 'Development of Sustainable Mangrove Management Project' hand in hand as a technical cooperation project. This Handbook is one of the project outputs and it provides fundamental information to study mangroves and understand the mangrove management in Indonesia.

I hope that this Handbook will be of use to all mangrove management projects and other people involved in mangrove rehabilitation activities in Indonesia.

Director General of
Reforestation and Land Rehabilitation
The Ministry of Forestry, Indonesia



Hendarsun Surya Sanusi Putra
October 1997

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Shozo Kitamura
JICA Expert / Forestry Agency Japan
October 1997

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