

Professor Sanit Aksornkoae, Ph.D.

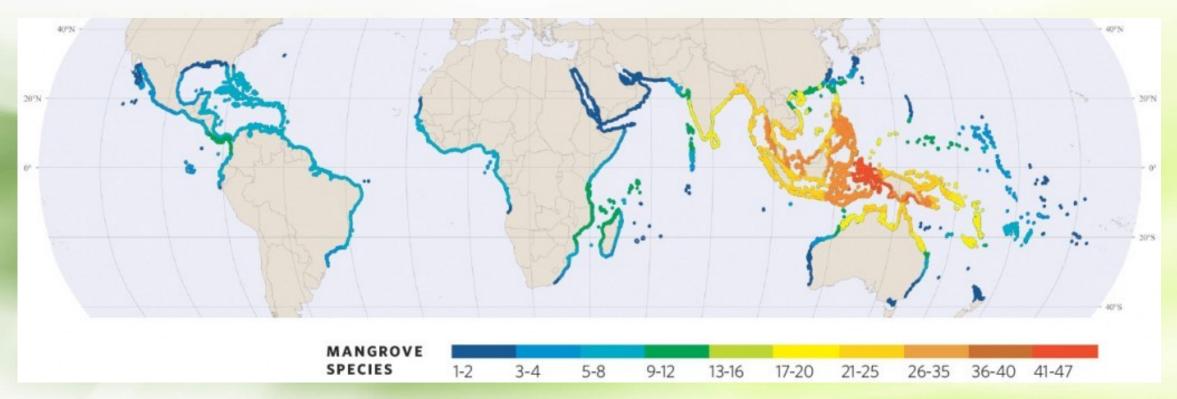
President,

International Society for Mangrove Ecosystems



International Society for Mangrove Ecosystems

Current Status of Mangroves Worldwide

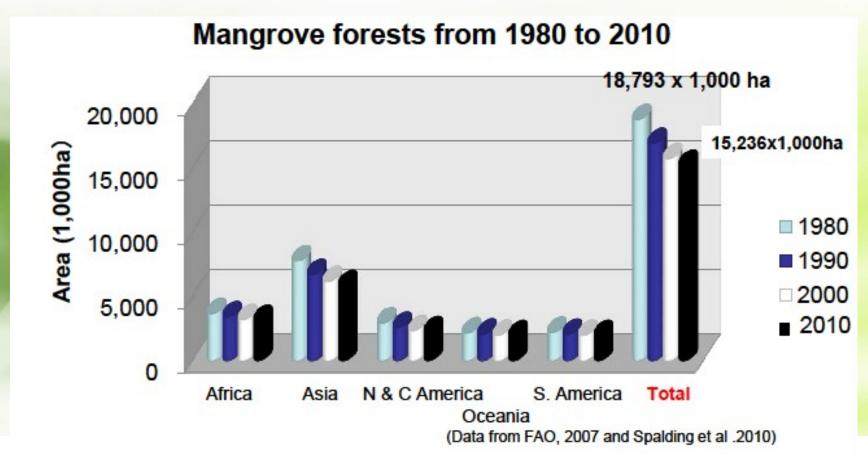


The Indo-West Pacific and Atlantic East Pacific Regions have 62 and 12 mangrove species and hybrids, respectively.

The global centre of mangrove species is in Southeast Asia where the highest diversity (41-47 species) occurs in Indonesia, Malaysia and the Philippines



Current Status of Mangroves Worldwide



The loss of mangroves worldwide is considerable and continuing at rate of ~1% yearly, which is 3 to 5 times higher than the overall global forest loss.



Criteria Considerations for Sustainable Management of Mangrove Ecosystems

Values of mangroves
Benefits of maintaining mangroves
Threats to mangroves
Structure and functioning of mangroves
National policies on mangroves



Values of Mangroves: Flora



Values of Mangroves: Fauna

Common Fishes in Mangroves





Total shrimps in mangrove about 15 species

Common Grabs in Mangroves



Total crais in mangrove about 80 species





Total molluses in mangrove about 25 species





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Benefits of Maintaining Mangrove Ecosystems



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International Society for Mangrove Ecosystems

Benefits of Maintaining Mangrove Ecosystems





Threats to Mangroves



Oil Palm Encroachment



SME International Society for Mangrove Ecosystems

Threats to Mangroves



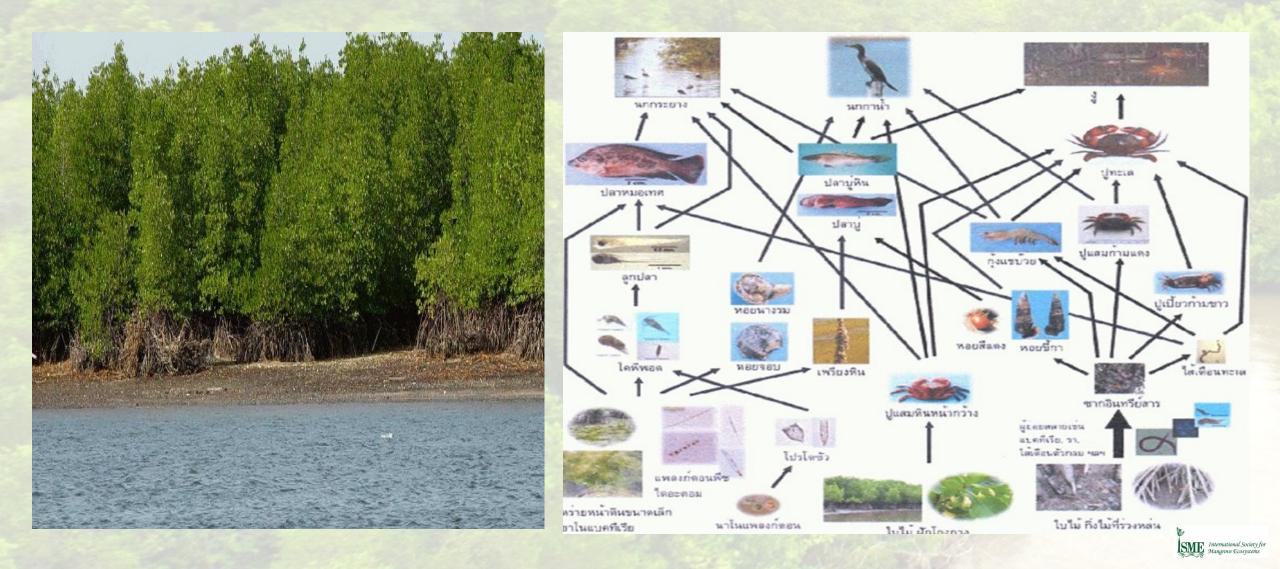


Severe coastal erosion at Samut Prakan, Thailand

Banda Aceh, Indonesia, after the 2004 Indian Ocean tsunami



Structure and Functioning of Mangrove Ecosystems



Structure and Functioning of Mangrove Ecosystems







Mangroves are of different forest types with genera having different rooting systems and propagules





National Policies on Mangroves

Protection and conservation of existing mangroves
Increasing mangrove areas by rehabilitation
Wise use of mangrove resources
Public participation in mangrove management

Protection and Conservation of Existing Mangroves



Protection and Conservation of Existing Mangroves

Examples of totally protected mangroves of international significance in S.E. Asia:

Ranong Biosphere Reserve (30,000 ha) in Thailand
Can Gio Mangrove Biosphere Reserve (31,800 ha) in Viet Nam
Lower Kinabatangan-Segama Wetlands Ramsar Site (78,800 ha) in Sabah, Malaysia



Increasing Mangrove Areas by Rehabilitation



Mangrove Plantation in Qman







Mangrove Plantation in India

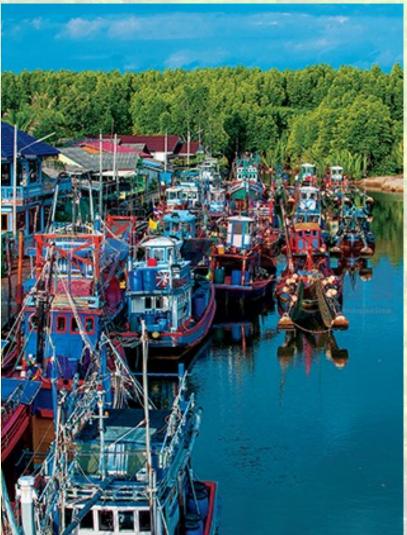


Mangrove Plantation in Thailand





Wise Use of Mangrove Resources













Wise Use of Mangrove Resources



Wood carving



Weaving



Fodder



Dyeing



Tapping Nypa sap for sugar and wine making



Public Participation in Mangrove Management

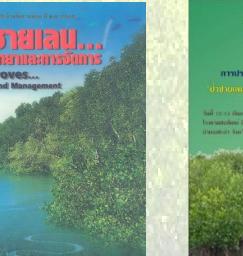


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คู่มีอการเพาะชำ



Public Participation in Mangrove Management



Planting of mangroves on atolls by school children in Kiribati



Friendship planting of mangroves in Sabah, Malaysia, by university students from Japan and Sabah



Key Indicators of Sustainable Mangrove Management

At the country level:

- Good governance and law enforcement
- Management of mangroves based on strategic plans
- Active restoration of degraded mangroves
- Establishment of totally protected mangroves
- Curtailing of conversional use and mangrove loss
- Capacity building in mangrove management and conservation
- Participation by all stakeholders including private sectors

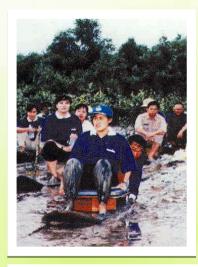






Key Success in Thailand







Key Success in Thailand

In 1998, the Cabinet of Thailand revised the 1987 national policy and management practices for mangrove forests. In the conservation zone, any utilization that leads to the loss of the mangrove forest is prohibited. In the development zone, degraded mangrove areas are rehabilitated and utilization activities are strictly controlled.

The Sirindhorn International Environmental Park in Cha-Am, Phetchaburi Province in Thailand, highlights the importance of mangrove conservation through training and research, among its many activities.



Thank you for your attention