



マングロープの再生と利用を通して日本とフィリピンが緑をつなぐ  
Planting mangroves for life... It's fun


環境NGO  
**Ikaw-Ako**

Japanase/English

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## Protect Mangrove, Save Our Life

Mari Kurata  
IKAW-AKO Coordinator



## Introduction

- My experiences in Philippines
- Mangrove decline and reforestation projects in Philippines
- Activities of IKAW-AKO




## What is Mangrove?



“Mangrove” is  
tree, shrubs, palms herbs or ferns which

- grow in the intertidal areas
- have tolerance to high salt concentrations and oxygen-poor soil
- have propagules able to survive dispersal by sea water


70 species in the world, 40 in the Philippines



## Bakhaw

## Pagatpat




## Bungalon



**What's the importance of Mangrove?**


- Protection of the shoreline and river bank
  - If there is no mangrove, no trees
- Habitat for wild life
  - Bangos fry
  - Shrimps
  - Mud crab juvenile to sub adult
- Purification of the water
- Tourist attraction

**Seafood from mangrove**



- Mud crab juveniles grow in mangrove
- Shrimp spend their larval stage in mangrove

**Tourist Attraction**



- Nipa hut inside mangrove forest to rest and to have snacks
- Bamboo bridge to explore the wonder of mangrove


**Mangrove Deforestation in the Philippines**

- 450,000ha in 1920 declined to 120,000ha in 1995
  - 330,000ha or 73% in area has lost

**Why?**

- Conversion to Fish/ Shrimp pond : 279,000ha
- Conversion to residential area, agriculture, rice field, salt bed, industry.

**Fish pond conversion**




Google map

**Mangrove Reforestation in the Philippines**


- 1930s-1950s: community level mangrove planting for firewood and coastal protection in Negros
- 1970s: government sponsored projects
- 1980s-now: international development assistance program

Total survival rate is said to be 10 to 20 %




### Check your planting

- Is your **planting site** suitable for mangrove?
- Planting is needed for the reforestation of the area?
- Is the **species** of the mangrove seedlings suitable for the planting site?
- Are your seedlings **enough mature** for planting?





### Mangrove Nursery



- Bakhaw seedlings 2-3month after the bagging


- Pagatpat seedlings 2 month after the bagging






### IKAW-AKO help mangrove refo

- 1995 Prof. Yori-hisa Goto, director IKAW-AKO visited Negros




- 1997 Organized IKAW-AKO and brought Japanese volunteers to Silay
- Since 1997, 3 to 5 times a year, IKAW-AKO is bringing students and volunteers to Negros for mangrove planting activities



### IKAW-AKO project sites

- Silay -Balaring
- Ilog -Bocana
- Cauayan -Caliling, Lina-on, Inayawan
- Sipalay -Cayhagan, Brgy IV, Brgy V
- Hinoba-an –Bacuyangan, Pook

& more



### Why IKAW-AKO plant mangrove?

- To protect the life of the people along shoreline
- To recover the mangrove forest once lost with commitment of Japanese
- To develop friendship between Japanese and Filipinos
- To educate Japanese students and volunteers


**Mangrove Refo is for our life and friendship**



### Mangrove planting grow friendship







## IKAW-AKO not only Mangrove

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- Eco-Tourism
  - Friendship bridge
  - Study Tour
- Public Awareness
  - Pagatpat Festival
  - Environmental Education
- Income Generation
  - Mud crab culture
  - Community trade (embroidery, sewing)



## Public Awareness

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- Pagatpat Festival 2008, Eco-challenge.

- Mangrove planting with students of NESCA Cauayan





## Income generation

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- Mud crab can be cultured inside mangrove without destroying it

- Embroidery is one of our target exporting products to Japan






## Beauty of Mangroves


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## Beauty of Mangroves

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## Beauty of Mangrove

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Mangrove Planting



A person wearing a blue long-sleeved shirt and a white headscarf is bent over, planting a small mangrove sapling into the muddy ground. The background shows a natural mangrove environment with water and other trees.

Mangrove Planting




A group of about 15 people, including men, women, and children, are standing in a line outdoors. They are dressed in casual clothing, and some are wearing hats. They appear to be participating in a community activity, possibly related to mangrove planting.

Garbage Problem




A small mangrove sapling with three green leaves is growing in a muddy area. A piece of white plastic trash is lying on the ground next to the plant, illustrating the problem of garbage in mangrove habitats.

Bear strong window



A mangrove sapling is growing in a muddy area. In the background, there is a large, white, rectangular structure that looks like a window or a door, possibly a building or a fence, illustrating the impact of human structures on mangrove habitats.

Maintenance



Two people are working in a mangrove area. One person is wearing a blue cap and a dark shirt, and the other is wearing a red shirt. They appear to be engaged in maintenance or planting activities in the muddy ground.

Interaction



A group of people are interacting outdoors. Some are standing and talking, while others are sitting on the ground. They appear to be engaged in a community activity or a meeting in a natural setting with trees in the background.



## Interaction



## JOIN US!!

- Mangrove planting with Japanese Students
  - August 10 (Mon) 7:00am -
  - August 23 (Sun) 7:00am -
- We welcome volunteer for documentation, advocacy, survey of planting site, etc...
- Contact 034-495-5622  
<http://www.ikawako.com>