

Restorated mangroves and livelihoods of coastal communities



Mangrove reforestation has contributed to improving the Socio - economic life of some coastal communities.

- Generating jobs (planting, caring and protection of mangroves) for some poor people.
- Increasing income from rising marine resources.

Restorated mangroves and livelihoods of coastal communities



Mud crab seeds harvested in mangroves for aquaculture

Average income from mud crab seeds of 30 households in November 2000 at Nam Dinh

Commune	Income (USD)
Nam Dien – Nghia Hung Dist.	2,031
Nghia Hung – Nghia Hung	536
Giao Lam – Giao Thuy Dist.	596

Restorated mangroves and livelihoods of coastal communities

Comparison of the benefits of collecting aqua-products inside and nearby mangrove areas before 2005 (rare and young stand of planted mangroves) and in 2013 (mature restored forest)

2005	2014
210	300
	266.860
	15
	6
-	_
89	115
918.054.132	2.733.450.008
4.113.852	9.136.138
196	435
	4.113.852

Restorated mangroves and livelihoods of coastal communities

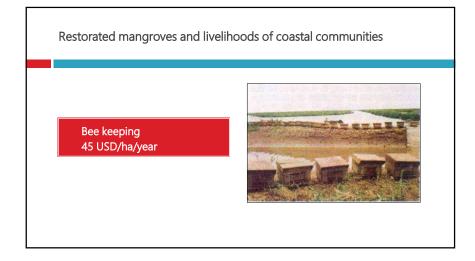
socio-economic report of Bang La authority, the value of <u>aqua-</u> product collection in was 16.65 billion VND equivalent to \$ 2,643/ha All value from agricuture (USD/ha/year) in Hai Phong, 2013
(Statistic book, 2013)

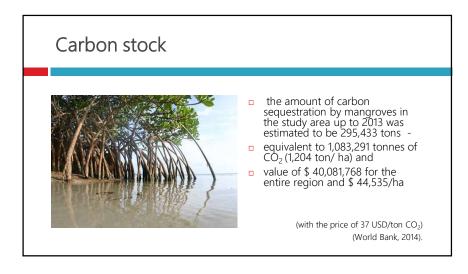
Cultivation 3,042

Livestooks 2,907

Services 180

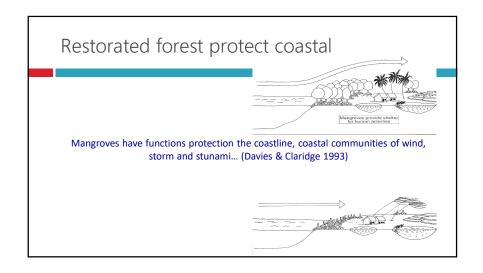
Total 6,129

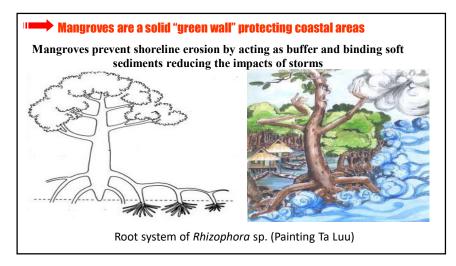


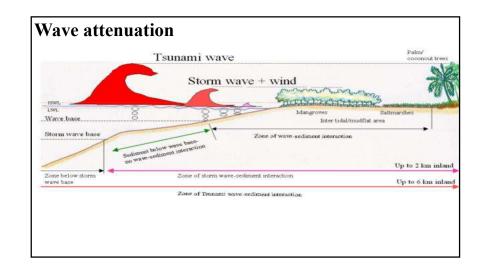




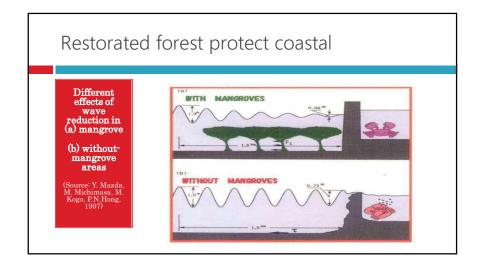


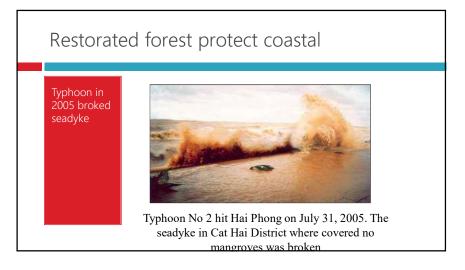








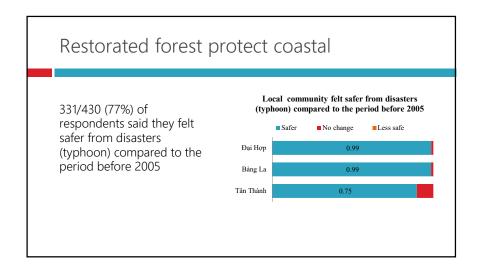


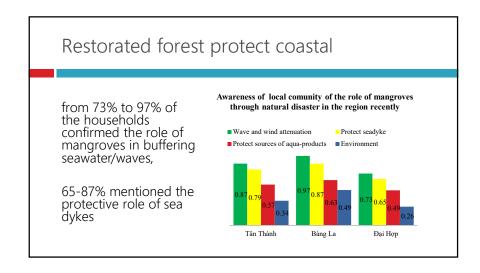




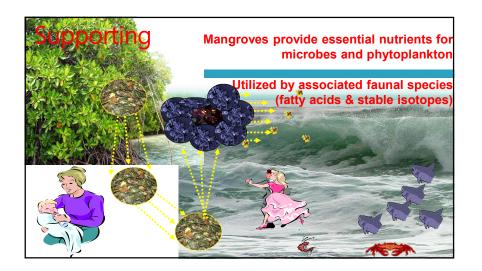


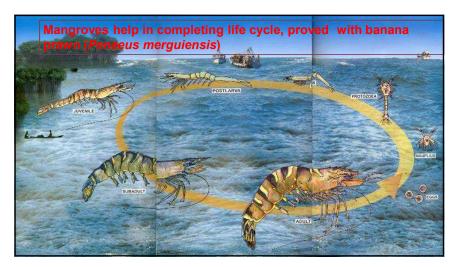
Without mangroves Without mangroves Without mangroves protection seadyke in Cat Hai was destroyed Storm No 2 in 2007 Without coastal With mangroves The sea dyke in Bang La was protected with mangroves



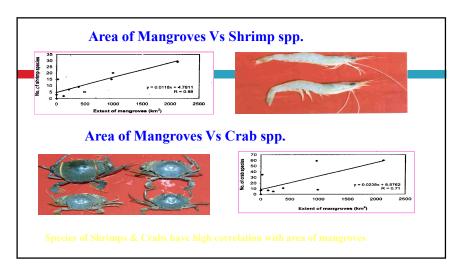


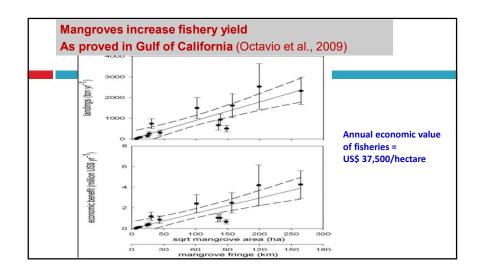


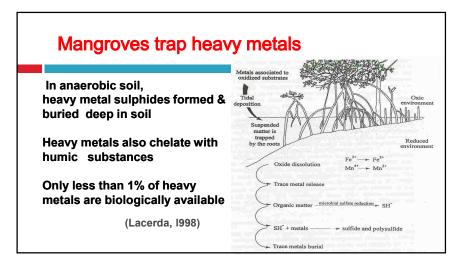


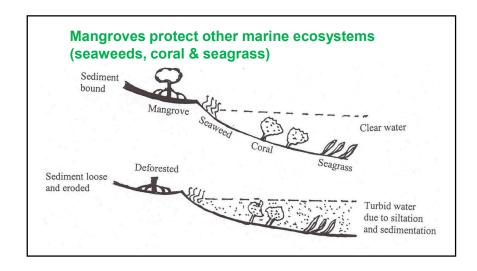


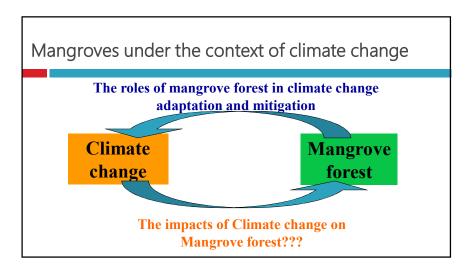


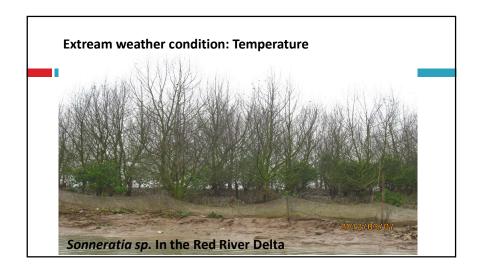


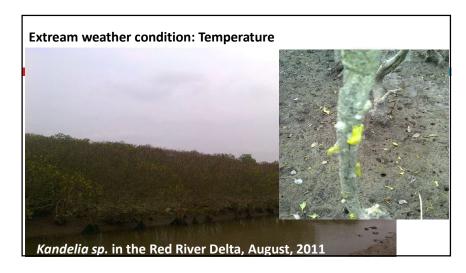










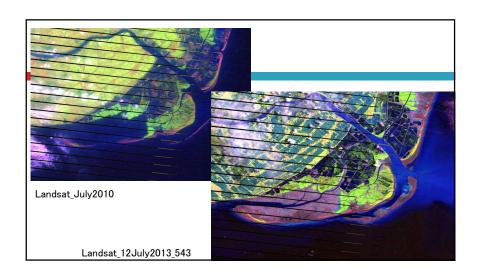














What are the reasons?

Inundation (water level)?

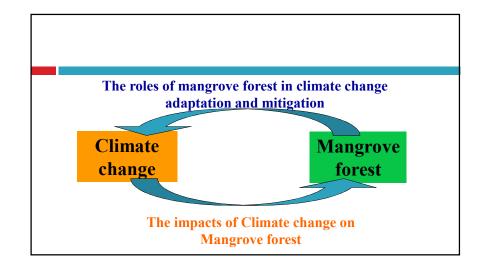
Salinity?

Density?

Barnacle?

Extreme weather?

•••



Conclusions

- The restored mangrove ecosystems have provided food security and livelihoods to the poor coastal inhabitants through the service provision of fisheries nursery and habitat and regulation of protecting the coastal communes from natural disasters (typhoon, waves) and carbon sequestration.
- In turn, these ecosystem products and services both directly and indirectly contribute significantly to the coastal households all the way up to the national food security and economy

Although the assessments in this research could not quantify all the values of mangroves in the locality, the results shown the important role of restorated mangrove forest in the contribution of forest products and other services to food security.



