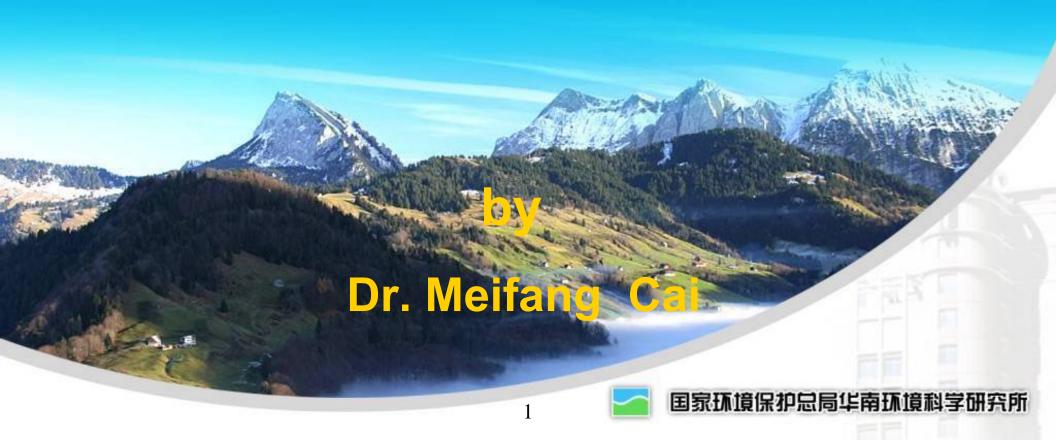


The Regional Training Workshop Economic Valuation of the Goods and Services of Coastal Habitats March 24 – 28, 2008



Samut Songkram Province, Thailand

National Action Plan for Seagrass in China





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Introduction

- ✓ Current total area of Seagrass in China only 2,500ha
- ✓ DistributionGuangdong, Guangxi, Hainan
- ✓ Main threats to Seagrass

Aquaculture

Fishing

Pollution

Construction



Existing Actions

- ✓ Survey and Assessment of Offing Ocean in China
- ✓ Functional Division of marine in Guangxi (Feb. 2005)
- ✓ A county reserves for seagrass was established in Leizhou, Zhanjiang (Apr. 2003)
- ✓ Program Compendium of Marine Economy Development in China (May 2003)
- ✓ "Reverse environmental degradation trends in South China Sea and Bay of Thailand--- the dissertation of seagrass of China" (2002)



- ✓ The establishment of national nature reserves for dugongs (1996)
- ✓ Action Plan for the Protection of Biodiversity in China (1994)
- ✓ Laws and regulations related to seagrass management
- ✓ Administrative departments for seagrass management

Ministry of Environmental Protection of China State Oceanic Administration Fishery Administration of the Ministry of Agriculture



Problems

- ✓ The laws & regulations related to seagrass protection are limited and deficient
- ✓ The economy policy system regarding the sustainable use of seagrass has not been established
- ✓ The coordination and cooperation among government, non-governmental organizations and local commune is not enough
- ✓ The development of Natural Reserves or Demon Sites for seagrass is slow



Problems

- ✓ The destruction of seagrass from human beings is serous
- ✓ The understanding on the ecological value of seagrass is poor
- ✓ The scientific researches on seagrass is insufficient
- ✓ The budget allocated for the research and protection of seagrass is few
- ✓ The publication, education and exchange of seagrass protection is not enough



Goals

- ✓ To stop any destruction of seagrass
- ✓ To reduce or reverse the status of seagrass degradation treads
- ✓ To maintain and develop the functions and benefits of seagrass at the maximum level
- ✓ To ensure the sustainable use of seagrass



Actions

- ✓ To establish a system for seagrass protection and exploitation
- Budget: US\$ 800,000
- Schedule: 2007~2010
- ✓ To set up the coordination system for seagrass management
- Budget: US\$ 500,000
- Schedule: 2007~2015



Actions

- ✓ To construct natural reserves for seagrass
- Budget: US\$ 3,000,000
- Schedule: 2007~2010
- ✓ To reverse the degradation of seagrass
- Budget: US\$ 800,000
- Schedule: 2007~2015



Actions

- ✓ To carry out the publication, education and training
- Budget: US\$ 800,000
- Schedule: 2007~2015
- ✓ To establish the information system and database for seagrass
- Budget: US\$ 700,000
- Schedule: 2007~2010
- ✓ To improve the research on seagrass
- Budget: US\$ 1,400,000
- Schedule: 2007~2010

Action Plan of the Protection for Seagrass in South China

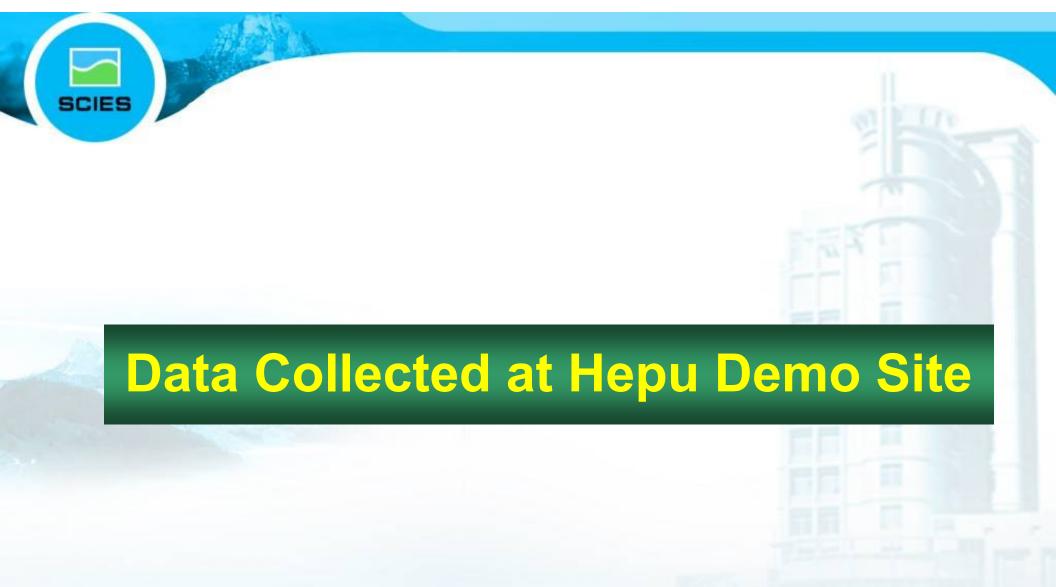
Objectives	Prior Actions	Budget (US\$)	Dept.	Time	Priority	Funding	Indicators
establish a system for	Make the conservation plan of seagrass as one part of the action plan of conservation of biodiversity	200,000	Department confirmed by State Council P.R China	2007— 2010	н	Central Finance	.Reports of advance that the conservation plan as one part of the action plan of conservation of biodiversity
seagrass protection and exploitation	Establish economical policies aiming at leading the local people to use seagrass resources in a sustainable way	600,000	Department confirmed by State Council P.R China	2007— 2010	Н	Local Finance	.Evaluating system of seagrass economic value .Reports of establishment of economic sustainable development system of local government
set up the coordination system for seagrass management	Strengthen the coordination among government departments	300,000	Department confirmed by State Council P.R China	2007— 2010	Н	Central Finance	.Records of coordinating meetings .Reports of coordinating protecting actions of different departments
	Establish a partnership among different departments and organizations to protect seagrass	200,000	Department confirmed by State Council P.R China	2007— 2015	M	Local Finance Donation	.Management plan .Reports of coordinating protecting actions of different organizations

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Objectives	Prior Actions	Budget (US\$)	Dept.	Time	Priority	Funding	Indicators
	Establish Hepu Natural Reserves for Seagrass	1,000,000	Department confirmed by State Council P.R China	2007— 2010	VH	Central Finance Local Finance GEF	.Result of seagrass reserve approved by local government .Management Board .Management plan .Reports of protecting actions
construction of natural reserves for seagrass	Establish Xincun & Li'an Natural Reserves for Seagrass	1,000,000	Department confirmed by State Council P.R China	2007— 2010	VH	Central Finance Local Finance GEF	.Result of seagrass reserve approved by local government .Management Board .Management plan .Reports of protecting actions
	Establish Liusha Natural Reserves for Seagrass	1,000,000	Department confirmed by State Council P.R China	2007— 2010	VH	Central Finance Local Finance GEF	.Result of seagrass reserve approved by local government .Management Board .Management plan .Reports of protecting actions
	Guide the local people to change the production pattern that destroys seagrass	200,000	Department confirmed by State Council P.R China	2007— 2010	M	Local Finance	Reports, videos or photos of new production patterns of local people
Reverse degradation of seagrass	Prevent and cure the destruction of pollutants to seagrass	200,000	Department confirmed by State Council P.R China	2007— 2012	н	Local Finance GEF	.Reports of preventing the pollutants around the seagrass beds .Reports of seagrass bed environmental quality monitoring
	Reduce the influence of marine projects on seagrass	400,000	Department confirmed by State Council P.R.C	2007— 2012	Н	Local Finance	.Reports of enhancing the management of marine projects

Objectives	Prior Actions	Budget (US\$)	Dept.	Time	Priority	Funding	Indicators
	Strengthen the propaganda of protecting seagrass in different government departments	200,000	Department confirmed by State Council P.R China	2007—2010	Н	Local Finance	.Reports of education & training .Number of educated government officials .Results of training &education .Propagandistic video .Propagandistic book .Warning boards
Carry out publication, education and training	Strengthen the propaganda of protecting seagrass in local commune	200,000	Department confirmed by State Council P.R China	2007—2010	Н	Local Finance GEF	.Reports of education & training .Number of educated students, teachers and residents .Results of training &education .Propagandistic video .Propagandistic book .Warning boards
	Strengthen the training and exchange of administrative personnel	400,000	Department confirmed by State Council P.R China	2007—2015	Н	Central Finance Local Finance GEF	.Number of facilitators trained .Number of other staff trained .Reports of attending conferences .Construction of education center

Objectives	Prior Actions	Budget (US\$)	Dept.	Time	Priority	Funding	Indicators
	Establish a preliminary seagrass database	200,000	Department confirmed by State Council P.R China	2007—2010	н	Local Finance GEF	.Establishment of seagras website .Reports of investigation o seagrass resources
Establish information system of seagrass	Establish a monitoring network of seagrass resources	400,000	Department confirmed by State Council P.R China	2007—2010	М	Central Finance Local Finance GEF	.Reports of monitoring on seagrass resources .Reports of investigation o seagrass resources
Journal	Establish the first Chinese Web of seagrass	100,000	Department confirmed by State Council P.R China	2007—2008	н	Local Finance GEF	.Seagrass website .Number of accessing to the seagrass website
	Strengthen the basic researches on seagrass	400,000	Department confirmed by State Council P.R China	2007—2015	н	Central Finance GEF	.Construction of education center .Results of researches on seagrass
Improve scientific researche s on seagrass	Strengthen researches on the ecosystem service value of seagrass	400,000	Department confirmed by State Council P.R China	2007—2015	М	Central Finance GEF	.Papers or monographs of researches on the ecosystem service value of seagrass
	Strengthen researches on the sustainable use of seagrass resources	600,000	Department confirmed by State Council P.R China	2007—2015	М	Central Finance GEF	.Papers or monographs of researches on the sustainable use of seagrass resources
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Data Collected at Hepu Demo Site

SCIE

Uses	Value (Y/ha/a)	Percentage(%)
Direct value	43,693	6.8
Feed raw stuff	4,560	0.7
Handicraft	6,900	1.1
Cosmetic	3,833	0.6
Fish	8,200	1.3
Aquaculture	20,200	3.1
Indirect value	446,474	69.3
Nursing ground	171,000	26.5
Nutrient cycling	224,000	34.8
Coastline protection	14,454	2.2
Climate change mitigation	230	0.04
Biological diversity	36,000	5.6
Research	474.2	0.1
Water purification	316	0.05
Non-use value	154,000	23.9
Total	644,167	100

