



PROVISIONAL PROGRAMME

Workshop on

Advances in Sea Cucumber Aquaculture and Management (ASCAM)

Venue	Shangri-La Hotel, Dalian, Liaoning Province, China				
Date	14-18 October 2003				
Workshop				SESSIONS	CHAIRPERSONS
	Day 1	14 October 2003	Presentation & Discussion	I. Status of Resources and Utilization	Chantal CONAND / Fatima FERDOUSE
	Day 2	15 October 2003	Presentation & Discussion	II. Resources Management	Steve PURCELL / Sven UTHICKE
	Day 3	16 October 2003	Study Tour		
	Day 4	17 October 2003	Presentation & Discussion	III. Aquaculture Advances	CHEN Jiaxin / Jean-François HAMEL
	Day 5	18 October 2003	Workshop Report Drafting		Session Chairpersons / FAO (only)

DAY 1 14 October 2003	OPENING SESSION	REGISTRATION and WELCOME NOTE
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Time		
08:00 - 08:30	REGISTRATION	All Participants
08:30 - 08:50	WELCOME NOTE	Chinese Authorities / FAO
08:50 - 0900	Break (10 mins)	

DAY 1 14 October 2003	SESSION I	STATUS OF RESOURCES AND UTILIZATION
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Chairpersons:	Chantal CONAND / Fatima FERDOUSE
Session Editor:	Chantal CONAND

Time	Speaker	Topic - Presentation Title
09:00 - 09:30	Chantal CONAND	Present status of world sea cucumber resources and utilisation: An international overview
09:30 - 10:00	CHEN Jiaxin	Present status and prospects of sea cucumber industry in China
10:00 - 10:30	Jun AKAMINE	Historical overview on holothurian exploitation, utilization and trade in Japan
10:30 - 11:00	Coffee Break (30 mins)	
11:00 - 11:30	Ambo TUWO	Status on sea cucumber fisheries and farming in Indonesia
11:30 - 12:00	CHOO Poh-Sze	Fisheries, trade and utilisation of sea cucumbers in Malaysia
12:00 - 12:30	Ruth GAMBOA	The status of sea cucumber fisheries and mariculture in the Philippines
12:30 - 13:00	Andrew LAWRENCE	Status of the sea cucumber fishery in the Red Sea: The Egyptian experience
13:00 - 14:00	Lunch Break (60 mins)	
14:00 - 14:30	Verónica TORAL-GRANDA	Population density and fishery impacts on the sea cucumber (<i>Stichopus fuscus</i>) in the Galápagos Islands
14:30 - 15:00	Fatima FERDOUSE	World markets and trade flows of sea cucumber
15:00 - 15:30	Mark BAINE	From the sea to the marketplace: Issues, problems and opportunities of sea cucumber fisheries and trade
15:30 - 16:00	Richard RASOLOFONIRINA	Sea cucumber fisheries and mariculture in Madagascar: A case study of Toliara, south-west of Madagascar
16:00 - 16:30	Irma ALFONSO	Current status of the sea cucumber fishery in the south-eastern region of Cuba
16:30 - 17:00	Coffee Break (30 mins)	
17:00 - 18:30	GROUP DISCUSSION SESSION	

DAY 2 15 October 2003	SESSION II	RESOURCES MANAGEMENT
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Chairpersons:	Steve PURCELL / Sven UTHICKE
Session Editors:	Steve PURCELL / Sven UTHICKE

Time	Speaker	Topic - Presentation Title
08:00 - 08:30	Sven UTHICKE	Over fishing of holothurians: Lessons from the Great Barrier Reef
08:30 - 09:00	Johann BELL	When should restocking and stock enhancement be used to manage sea cucumber fisheries?
09:00 - 09:30	Steve PURCELL	Criteria for release strategies and evaluating the restocking of sea cucumber
09:30 - 10:00	Twalibu MMBAGA	Studies on sea cucumbers in Tanzania and the gaps towards resource inventory and management
10:00 - 10:30	Coffee Break (30 mins)	
10:30 - 11:00	Philip POLON	The Papua New Guinea national bêche-de-mer fishery management plan
11:00 - 11:30	Colin SHELLEY	Management of trepang in the northern territory, Australia, and current research to further improve understanding of the fishery
11:30 - 12:00	Glenn SHIELL	Bêche-de-mer – The West Australia perspective: The fishing history and aspects of the reproductive biology and ecology of the Black Teat Fish, <i>Holothuria nobilis</i>
12:00 - 13:00	Lunch Break (60 mins)	
13:00 - 13:30	Riaz AUMEERUDDY	Management of the Seychelles sea cucumber fishery: Status and prospects
13:30 - 14:00	Verónica TORAL	The application of the adaptive principle to the management and conservation of <i>Stichopus fuscus</i> in the Galápagos Islands, Ecuador
14:00 - 14:30	Chris RAMOFAFIA	Customary marine tenure in Solomon Islands: A shifting paradigm for management of sea cucumbers in artisanal fisheries
14:30 - 15:00	LI Xiangmin	Fishing, processing and the resource management of sea cucumber in the Archipelagos of Dongsha, Nansha, Xisha, and Zhongsha
15:00 - 15:30	Coffee Break (30 mins)	
15:30 - 18:00	GROUP DISCUSSION SESSION	

DAY 3 16 October 2003	STUDY TOUR	SEA CUCUMBER FARM / HATCHERY VISITS
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Company Name : Dalian Bang Chuidao Sea Cucumber Development Co. Ltd.	Company Name : Dalian Youde Marine Biological Garden
Schedule: 07:00 Leave hotel 08:30 - 09:15 Introduction of the first company 09:15 - 09:45 Visit of the sea cucumber seed production facilities 09:45 - 11:15 Visit the sea cucumber field operations 11:15 - 12:00 Discussion session (ASCAM participants and company staff) 12:00 - 13:00 Lunch	Schedule: 13:00 Leave Restaurant 14:30 Introduction of the second company 14:30 - 16:00 Visit the Sea Cucumber culture facilities 16:00 - 17:00 Visit the sea cucumber hatchery and production Facilities 17:00 - 18:00 Discuss session (ASCAM participants and company staff) 18:00 Return to the hotel
<i>Brief company description:</i> Dalian Bang Chuidao Sea Cucumber Development Co. Ltd. is located in the Natural Conservation Zone of Chengshantou, Dalian City. The company is a leading Chinese integrated company engaged in mariculture (hatcheries and on-growing facilities), processing and trade of sea products. As a result of its performance over the years, particularly with regards to the production of quality products, the company has been rewarded by the Municipal Government and certified by the National Bureau of Trademarks. In 2002 the company received approval from by Ministry of Agriculture (MOA) to establish and administer a national sea cucumber project focused on the conservation of endemic species and breeding of commercially important species. In the same year the company established a land-based facility and produced 30 million and 5 million of sea cucumber and sea urchin seed, respectively. All juveniles of both species were stocked in the conservation coastal zone for resource enhancement. With the completion of the project the company will be in a position to produce annually 60 million sea cucumber seeds. The company plans to produce 3 million sea cucumber annually that will be valued at RM 200 million yuan (approx. USD 24 million - US\$ 1 = RMB 8.27; 1.7.03). In the future the company has plans to invest RMB 38 million yuan (approx. USD 4.6 million) in sea cucumber aquaculture. The company's ambition is to become a world leader in sea cucumber aquaculture using its popular "Bang Chuidao" trademark.	<i>Brief company description:</i> The Dalian Youde Marine Biological Garden company is part of a newly established group of companies operating in Dalian. The estimated capital of the group is RMB 130 million (approx. USD 15.7 million - US\$ 1 = RMB 8.27; 01.07.03). The company operates its land-based facilities on a 15 hectares plot and has a sea concession of 4 260 hectares. The company has a large-scale production capacity of a variety of marine species juveniles including sea cucumber, Yeso scallop, geoduck, sea urchin, giant cockle and several finfish species. The company runs its own hatcheries, grow-out facilities (land-based and sea), enhancement programmes and processing facilities. This year the company expects to produce approximately 150 million sea cucumber seeds and 5 billion of scallop seed for their aquaculture programme.

DAY 4 17 October 2003	SESSION III	AQUACULTURE ADVANCES
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Chairpersons:	CHEN Jiaxin / Jean-François HAMEL
Session Editors:	Jean-François HAMEL / Annie MERCIER

Time	Speaker	Topic - Presentation Title
08:00 - 08:30	CHANG Ya Qing	Sea cucumber (<i>Apostichopus japonicus</i>) pond polyculture in Dalian, Liaoning Province, China
08:30 - 09:00	SUI Xi Lin	Advances and prospects of sea cucumber (<i>Apostichopus japonicus</i>) aquaculture in China
09:00 - 09:30	WANG Ren Bo	Seed production and culture of sea cucumber (<i>Apostichopus japonicus</i>)
09:30 - 10:00	LIU Xi Yin	Studies on hatchery techniques of the sea cucumber <i>Apostichopus japonicus</i>
10:00 - 10:30	Coffee Break (30 mins)	
10:30 - 11:00	WANG Yin Geng	Diseases of cultured sea cucumber (<i>Apostichopus japonicus</i>) in China
11:00 - 11:30	Igor EECKHAUT	Parasites and biotic diseases in field and cultivated sea cucumbers
11:30 - 12:00	SUN Hui Ling	Nutritional demand and growth of sea cucumber (<i>Apostichopus japonicus</i>)
12:00 - 12:30	Rayner PITT	Sandfish breeding and rearing in Vietnam
12:30 - 13:30	Lunch Break (60 mins)	
13:30 - 14:00	Annie MERCIER	Aquaculture of the Galapagos sea cucumber <i>Isostichopus fuscus</i>
14:00 - 14:30	Jean-François HAMEL	Synchronous gamete maturation and reliable spawning induction method in holothurians
14:30 - 15:00	Ashraf AHMED IBRAHIM	Mariculture of sea cucumber in the Red Sea: The Egyptian experience
15:00 - 15:30	Baskar Daniel JAMES	Captive breeding of the sea cucumber <i>Holothuria scabra</i> from India
15:30 - 16:00	Coffee Break (30 mins)	
16:00 - 18:00	GROUP DISCUSSION SESSION	

DAY 5 18 October 2003

FINAL SESSION

WORKSHOP REPORT DRAFTING