

**Program for  
the Fifth International  
Fishers Forum  
on Marine  
Spatial Planning  
and Bycatch  
Mitigation**



**IFFF** TAIPEI  
AUGUST 3-5, 2010  
FIFTH INTERNATIONAL FISHERS FORUM

## **Program for the Fifth International Fishers Forum on Marine Spatial Planning and Bycatch Mitigation**

**Shangri-La Far Eastern Plaza Hotel**

**Taipei, August 3-5, 2010**

**Western Pacific Regional Fishery Management Council & Fisheries Agency, Taiwan**

### **Monday, August 2, 2010**

**13:00 – 17:00** Registration (Grand Ballroom Foyer, 3rd Floor)

**14:00 –14:30** Speaker Briefing Meeting (Grand Ballroom, 3rd Floor)

### **Tuesday, August 3, 2010 (Day 1)**

**7:30 – 17:00** Registration (Grand Ballroom Foyer, 3rd Floor)

**8:30 – 9:00** Plenary Opening Ceremonies (Grand Ballroom, 3rd Floor)  
Hosted by the Fisheries Agency, Taiwan

**9:00 – 10:15** Opening Address

- Dr. Wu-Hsiung Chen, Minister, Council of Agriculture, Executive Yuan, Taiwan

Opening Remarks

- Mr. James Sha, Director General, Fisheries Agency, Council of Agriculture, Executive Yuan
- Mr. Wen-Jung Hsieh, Chairman, Taiwan Deep Sea Tuna Longline Boat-Owners and Exporters Association
- Dr. Rebecca Lent, Director, Office of International Affairs, U.S. National Marine Fisheries Service
- Mr. Sean Martin, President, Hawaii Longline Association

**10:15 – 10:45** Group Photo (1st Floor Lobby Court Terrace)

**10:45 – 11:15** Coffee Break

**10:45 – 11:15** Press Conference<sup>1</sup> (Grand Ballroom, 3rd Floor)

**11:15 – 11:30** Forum Mission, Structure and Social Events  
Mr. Hong-Yen Huang, Director, Deep Seas Fisheries Division,  
Fisheries Agency, Taiwan

**11:30 – 12:00** Reporting on Commitments and Progress since IFF1 and Process for  
IFF5 Participant Commitments  
Ms. Kitty M. Simonds, Executive Director, Western Pacific Regional Fishery  
Management Council

**12:00 – 13:30** Lunch (On Own)

<sup>1</sup> **Press Conference** 10:45 – 11:15 with presenters of opening addresses.

**13:30 – 15:15**

**SESSION 1: APPROACHES TO COASTAL AND MARINE SPATIAL PLANNING AND MANAGEMENT**

Session chair: Dr. Robin Warner, Australian National Centre for Ocean Resources and Security, University of Wollongong

Target Outcomes: What are the various approaches to coastal and marine spatial planning, and how can C&MSP contribute to mitigating fisheries bycatch, managing discards, and achieving sustainable pelagic fish stocks?

Presenters/Panelists: (10-minute presentations followed by panel discussion and audience questions)

- Dr. Larry B. Crowder, Duke University  
“The role of marine spatial planning in sustaining pelagic fisheries: Transitioning from managing sectors to comprehensive ecosystem-based management”
- Dr. David Hyrenbach, Hawaii Pacific University  
“Oceanographic considerations for marine spatial planning on the high seas”
- Mr. Daniel Dunn, Duke University  
“Using the Convention on Biological Diversity’s scientific criteria to identify ecologically or biologically significant areas in need of protection to inform fisheries management and marine spatial planning”
- Dr. Hsueh-Jung Lu, Department of Environmental Biology and Fisheries Science, National Taiwan Ocean University, Taiwan  
“Marine spatial planning in coastal zones with geographic information system”
- Mr. Randall Owens, Great Barrier Reef Marine Park Authority  
“Great Barrier Reef Marine Park Authority – Monitoring, evaluation and adaptive marine spatial planning and management”
- Dr. Robin Warner, Australian National Centre for Ocean Resources and Security, University of Wollongong  
“The role of marine spatial planning in governance of climate change mitigation activities in the oceans beyond national jurisdiction”
- Dr. Paul Holthus, Executive Director, World Ocean Council  
“Corporate role in marine spatial planning and management”

**14:50 – 15:15**

Panel Discussion

**15:15 – 15:30**

Coffee Break

**15:30 – 17:30**

**SESSION 2A: CASE STUDIES OF COASTAL AND MARINE SPATIAL PLANNING AND MANAGEMENT– PERSPECTIVES FROM MANAGERS AND PLANNERS**

Session Chair: Dr. Milani Chaloupka, Ecological Modeling Services and University of Queensland, and Mr. David Chang, Overseas Fisheries Development Council, Taiwan

Target Outcomes: Identify lessons learned and best practices for effective and ineffective coastal and marine spatial planning, and implications for marine fisheries governance. What lessons can be drawn for the application of marine spatial planning within the Pacific Islands Region?

Presenters/Panelists: (15-minute presentations followed by panel discussion and audience questions)

- Dr. Jo-Ann Leong, Director, Hawaii Institute of Marine Biology  
“Coastal and marine spatial planning and the northwestern Hawaiian Islands”
- Mr. Randall Owens, Great Barrier Reef Marine Park Authority  
“Great Barrier Reef Marine Park Authority lessons learned in marine spatial planning, including sustainable marine fisheries”
- Ms. Deirdre Boelke, Fishery Analyst, New England Fishery Management Council  
“New England area rotation of scallop beds”
- Mr. Mao-Cheng Wang, Fisheries Agency, Taiwan  
“Taiwan’s experience with marine protected areas”
- Dr. David Fluharty, University of Washington  
“Incipient implementation of marine spatial planning in Puget Sound”

**16:45 – 17:30**

Panel Discussion

**19:00**

Aloha Reception (7th Floor Pool Deck)  
Hosted by Western Pacific Regional Fishery Management Council

End day 1

## Wednesday, August 4, 2010 (Day 2)

- 8:00 – 17:00** Registration (Grand Ballroom Foyer, 3rd Floor)
- 8:30 – 8:45** Announcements (Grand Ballroom, 3rd Floor)
- 08:45 - 11.30** **SESSION 2B: CASE STUDIES OF COASTAL AND MARINE SPATIAL PLANNING AND MANAGEMENT – PERSPECTIVES FROM THE COMMERCIAL MARINE CAPTURE FISHING INDUSTRY**
- Session Chair: Mr. Henk Brus, Atuna
- Target Outcomes: How can marine spatial planning be adapted to meet specific social, economic, cultural, and environmental contexts of fishing communities?
- Presenters: (15-minute presentations followed by discussion)
- Ms. Timm Timoney, Northwestern Hawaiian Islands bottomfish fisher  
“Socioeconomic effects on commercial fisheries from spatial planning by the US Papahānaumokuākea Marine National Monument”
  - Mr. Andrew Tobin, Queensland Seafood Industry Association  
“Fishing industry experiences with Great Barrier Reef Marine Park marine spatial planning”
  - Mr. Bill Wells, Wells Scallop Co.  
”Industry experiences with Atlantic sea scallop area rotation”
  - Mr. Yi-Ping Hung, Changhua Fishery Association  
“Taiwan experiences with marine spatial planning: The case of Chunghwa county”
  - Mr. Marion Larkin, Washington, USA Commercial Fisherman  
“Fishing industry experiences with marine spatial planning on the U.S. west coast”
- 10:15 – 10:30** Coffee Break
- 10:30 – 11:30** **SESSION 2B (continued): Discussion**
- 11:30 – 13:00** Participants Lunch ( East Gate Room, Basement)  
Hosted by the Western Pacific Regional Fishery Management Council
- Fishermen’s Lunch (North/South Gate Room, Basement)  
Co-hosted by the Hawaii Longline Association and the Western Pacific Regional Fishery Management Council
- Target Outcomes: Informal facilitated discussion of fishermen’s experiences and perspective on marine spatial planning.

Co-Chairs:

Mr. Edward C.C. Huang, General Secretary, Taiwan Deep Sea Tuna  
Longline Boat-Owners and Exporters Association and  
Mr. Sean Martin, President, Hawaii Longline Association

**SESSION 3: MITIGATING BYCATCH OF SENSITIVE SPECIES GROUPS  
IN MARINE FISHERIES**

**13:00 – 14:45**

**SESSION 3A: MITIGATING SENSITIVE SPECIES BYCATCH AND  
MANAGING DISCARDS IN SMALL SCALE FISHERIES, INCLUDING  
COASTAL ARTISANAL PASSIVE NET FISHERIES**

Session Chair: Dr. Ussif Rashid Sumaila, Director, Fisheries Centre,  
University of British Columbia

Target Outcomes: Identify the state of progress and priorities for mitigating  
bycatch in small scale coastal fisheries.

Presenters: (12-minute presentations followed by discussion)

- Dr. Rebecca Lewison, San Diego State University  
“Assessing bycatch in small-scale fisheries and an estimate  
of global impacts”
- Dr. Shouu Jeng Joung, National Taiwan Ocean University  
“Managing whale shark (*Rhincodon typus*) fishing mortality in Taiwan”
- Mr. Geoff McPherson, James Cook University  
“Acoustic pingers to mitigate marine mammal gillnet bycatch - the biosonar  
basis for their optimum utilization, and approaches for mitigating both  
bycatch and depredation”
- Dr. Osamu Abe, National Research Institute of Far Seas Fisheries, Japan  
“Mitigating sea turtle interactions in pound nets and set nets”
- Dr. Donald Kobayashi, National Marine Fisheries Service Pacific Islands  
Fisheries Science Center, and Dr. I-Jiunn Cheng, National Taiwan  
Ocean University  
“Sea turtle bycatch in Taiwan coastal poundnets”
- Dr. Martin Hall, Inter-American Tropical Tuna Commission  
“Assessment and mitigation of problematic bycatch in small scale coastal  
fisheries of Latin America”

**14:15 – 14:45**

Discussion

**14:45 – 15:00**

Coffee Break

**15:00 – 17:00**

**SESSION 3B: MARKET-BASED MECHANISMS AND FISHERIES BYCATCH**

Session Chair: Dr. Lida Pet-Soede, Leader, WWF Global Coral Triangle Programme

Target Outcomes: Identify how market-based mechanisms have influenced fisheries production practices and governance structures related to mitigating bycatch of sensitive species, and how these approaches can be employed in the future to contribute to sustainable fisheries and to open new and secure existing markets for participating fisheries.

Presenters: (10-minute presentations followed by discussion)

- Ms. Ming-Hua Lee, Taiwan Cetacean Society  
“An introduction to the Taiwanese whale watching industry and its evolution from traditional fisheries”
- Dr. Lida Pet-Soede, WWF Global Coral Triangle Programme  
“The International Seafood Sustainability Foundation and bycatch mitigation: Centerpiece of the global tuna sustainability mission”
- Mr. Keith Symington, WWF Bycatch Strategy Leader, Coral Triangle and Western Pacific  
”The Coral Triangle Fishers Forum: Market-based partnerships for managing bycatch”
- Mr. Bill Holden, Pacific Fisheries Manager, Marine Stewardship Council  
“MSC protocols for assessing bycatch in data-deficient fisheries”
- Mr. Duncan Leadbitter, Technical Director, Sustainable Fisheries Partnership  
“Market influences and sustainable tuna: a diverse and changing world”
- Mr. Bundit Chokesanguan, Southeast Asian Fisheries Development Center  
“monitoring, control and surveillance and the ability of market-based mechanisms to change fishing practices: Lessons from US trade rules on the importation of shrimp and uptake of TEDs in tropical shrimp trawl fisheries”
- Mr. Henk Brus, Atuna  
“Sustainable tuna sourcing for the European market”

**16:10 – 17:00**

Discussion

End day 2

## Thursday, August 5, 2010 (Day 3)

**8:00 – 17:00** Registration (Grand Ballroom Foyer, 3rd Floor)

**8:00 – 8:30** Announcements (Grand Ballroom, 3rd Floor)

**8:30 – 11:00** **SESSION 3C: MITIGATING BYCATCH IN LONGLINE AND PURSE SEINE FISHERIES**

Session Co-Chairs: Mr. Tzu-Yaw Tsay, Fisheries Agency, Taiwan, AND Mr. Peter Ho, Overseas Fisheries Development Council, Taiwan

Target Outcomes: Review progress and identify priorities for mitigating bycatch in pelagic and demersal longline fisheries and purse seine fisheries.

Presenters: (10-minute presentations followed by discussion)

- Dr. Ussif Rashid Sumaila, Director, Fisheries Centre, University of British Columbia  
“Sequential game theoretic models of western central Pacific tuna stocks”
- Dr. Rick Deriso, Inter-American Tropical Tuna Commission  
“Effects on the bigeye tuna stock in the Eastern Pacific Ocean from the Inter-American Tropical Tuna Commission’s measures for allocation of tuna by gear type”
- Dr. Eric Gilman, Hawaii Pacific University  
“Mitigating unwanted bycatch in global tuna fisheries”
- Dr. Martin Hall, Inter-American Tropical Tuna Commission  
“Creating incentives for the development and uptake of effective bycatch mitigation and management methods”
- Dr. Rebecca Lent, U.S. National Marine Fisheries Service  
“Outcomes of the Kobe II Bycatch meeting”
- Dr. Charles Cheng, Chinese Wild Bird Federation and Dr. Mayumi Sato, BirdLife International - Asia  
“Seabird bycatch in demersal and pelagic longline fisheries: Progress and obstacles”

**9:30 – 9:45** Coffee break

- Dr. Tom Nishida, National Research Institute of Far Seas Fisheries, Japan  
“Evolution of mitigation methods for depredation by toothed whales in industrial tuna longline fisheries over a half century: Who is smarter and the winner, humans or dolphins?”
- Dr. Kwang-Ming Liu, National Taiwan Ocean University, Taiwan  
“Shark bycatch in the Taiwanese longline fishery”

**10:05 – 11:00** Discussion

**11:00 – 11:15** Coffee Break



**11:15 – 12:45**

**SESSION 4: RECOMMENDATIONS FOR IMPLEMENTING COASTAL AND MARINE SPATIAL PLANNING TO ACHIEVE SUSTAINABLE PELAGIC FISHERIES**

Discussion session (no presentations)

Chair and Panelist: Dr. Larry B. Crowder, Duke University

Target Outcomes: Generate recommendations, future actions and industry commitments related to implementing marine spatial planning to contribute to sustainable pelagic fisheries, to be recorded in an IFF5 declaration.

Panelists:

- Mr. Daniel Dunn, Duke University
- Dr. Paul Holthus, World Ocean Council
- Mr. Edward C.C. Huang, Taiwan Deep Sea Tuna Longline Boat-Owners and Exporters Association
- Dr. David Hyrenbach, Hawaii Pacific University
- Mr. Charles C.P. Lee, Taiwan Deep Sea Tuna Purse Seine Boat-Owners and Exporters Association
- Dr. Hsueh-lung Lu, Department of Environmental Biology and Fisheries Science, National Taiwan Ocean University
- Mr. Sean Martin, Hawaii Longline Association
- Mr. Randall Owens, Great Barrier Reef Marine Park Authority
- Dr. Robin Warner, Australian National Centre for Ocean Resources and Security, University of Wollongong

Group discussion to generate recommendations

**12:45 – 14:15**

Lunch (On Own)

**14:15 – 14:45**

Report of IFF5 Participants' Commitments  
Mr. Paul Dalzell, Western Pacific Regional Fishery Management Council

**14:45 – 15:15**

IFF5 Declaration

- Mr. James Sha, Fisheries Agency, Council of Agriculture, Executive Yuan
- Ms. Kitty Simonds, Western Pacific Regional Fishery Management Council

**15:15 – 15:45**

Closing Statements

- Mr. James Sha, Fisheries Agency, Council of Agriculture, Executive Yuan
- Ms. Kitty Simonds, Western Pacific Regional Fishery Management Council

- 15:45 – 16:00**            The Fifth International Fishers Forum Award  
Presented by Ms. Kitty Simonds, Western Pacific Regional Fishery  
Management Council
- 16:00 – 16:30**            Plenary Closing Ceremony  
Hosted by the Western Pacific Regional Fishery Management Council
- 17:15 – 17:45**            Press Conference<sup>2</sup>
- 19:00**                      Farewell Dinner (The Grand Hotel)  
Hosted by the Fisheries Agency, Taiwan  
Transportation to be provided from the Shangri-La, details to be advised

End day 3

<sup>2</sup> **Press Conference** with a panel comprised of, **Mr. James Sha**, Director General, Fisheries Agency, Taiwan, **Ms. Kitty Simonds**, Executive Director, Western Pacific Regional Fishery Management Council; and the panelists of Session 4.

## Friday, August 6, 2010

### Field Trip

Hosted by the Fisheries Agency, Taiwan

Included with your registration; Please be sure to reserve a seat for this event.

6:50	Depart Far Eastern Plaza Hotel
8:00	Arrive Su-ao Fishing Harbor & Shopping
9:00	Su-ao Harbor Fishing Auction
10:00	Depart for Da Wen Aquaculture Farm
10:30	Da Wen Aquaculture Farm
12:00	Lunch at Da Wen Aquaculture Farm
13:30	Depart for Taipei
15:00	Arrive at Far Eastern Plaza Hotel

### Su-ao Harbor

Su-ao harbor (as known as Nan-Fang-Ao harbor) is the most important fishing harbor for coastal fisheries located in the northern-east of Taiwan. The harbor was built in 1921. After World War II, the fisheries in Su-ao were developed booming based on its excellent location and the abundant fishing ground. The population was also rapidly grown because of the fisheries development. Shipyards and mechanic factories were also built to meet the demand of fisheries. At its peak, there were five large scale shipyards located in Su-ao.

In 2008, there was 77,715 metric tons of fish landing in Su-ao harbor, accounting for 13% of the total fish landing in Taiwan, with the value of about 96 million US dollars. There are 770 fishing vessels registered in Su-ao harbor, mostly longliners and trawlers. The catches landed in Su-ao majorly are billfish, mackerel, dolphin fish, sharks and other tuna and tuna-like species. Among these, mackerel landed in Su-ao accounts for 80% of the mackerel in Taiwan.

Except from fisheries, Su-ao is also famous for its cold spring. The cold spring is effused from the shale underground, containing abundant carbon-dioxide. The temperature of the spring is about 22°. It is believed that immersing in the cold spring would be good for people with stomach and skin disease.

### Da-Wen Aquaculture Farm

The original name of Da-Wen is "O-Bai", which means swamp with plenty of waterweeds that not easy to pass through. In the past, aquaculture has been the by-product of traditional agriculture in Taiwan. The farmers used to breed fish in the rice paddy after harvest to increase their income. In 1960s, aquaculture became popular. Farmers gradually transformed the farmland into seawater fish farm. The main products of these farm were milkfish, shrimp, and crab, etc.

In the last two decades, with the consideration of increasing demand of aquatic products, the Taiwan government has vigorously assisted fish farmers in developing aquaculture in Taiwan. In this regard, Da-wen was planned as an aquaculture area. Farmers have been provided with more knowledge of business diversity, such as development of recreational fishery, experiencing fishing practice for children along with parents, and so on, in order to improve their income. In addition, sea water supply system has been constructed and the concept of joint procurement and cooperative business operation has been promoted.

Currently, the Da-wen aquaculture farm breeds mainly grass shrimp, kuruma shrimp, serrated crab, marine fish and gracilar. Among these, the serrated crab bred in Da-wen aquaculture is particularly reputed in Taiwan, in the name of Yilan serrated crab.

