



SEAFDEC NEWSLETTER

VOLUME 36 NUMBER 2 April - June 2013

BANGKOK, THAILAND, ISSN 0857 - 233X

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EDITORIAL

During the quarter, SEAFDEC implemented significant institutional and organizational activities for the sustainability of fisheries in the Southeast Asian region, and also conducted several training courses on sustainable fisheries and aquaculture development. The quarter also witnessed a display of the achievements of AQD as it continues to traverse the complex arena of aquaculture technology development during the past 40 years.

The 45th Meeting of SEAFDEC Council was organized by SEAFDEC in the Philippines in collaboration with the Bureau of Fisheries and Aquatic Resources of the Philippine Department of Agriculture. During the Meeting, important directives were given by the SEAFDEC Council for the efficient and cost-effective operations of the Center. Moreover, issues that are of utmost importance for the sustainable development fisheries in the region and requiring serious attention and cooperation, were addressed particularly, the listing of commercially-exploited aquatic species into the CITES Appendices, development of "Regional Fishing Vessels Record" as a

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SEAFDEC holds the Forty-fifth Council Meeting in Cebu

At the kind invitation of the Government and people of the Republic of the Philippines, the 45th Meeting of the SEAFDEC Council was held in Cebu, Philippines from 1 to 5 April 2013. The Inaugural Ceremony of the Meeting was presided over by the Honorable Assistant Secretary for Agribusiness, Marketing and Fisheries, Philippine Department of Agriculture, Mr. Salvador S. Salacup. During the Meeting, the SEAFDEC Council Director for the Philippines,

Atty. Asis G. Perez, was unanimously elected as the new Chairperson of the SEAFDEC Council for the Year 2013-2014, succeeding Mr. Khin Ko Lay, SEAFDEC Council Director for Myanmar.

While taking note on the good progress and achievements of SEAFDEC in 2012, the Council approved the proposed

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SEAFDEC Council Directors at the 45th Meeting of SEAFDEC Council

40 years of aquaculture R&D: An exhibit of fish farming technologies developed by AQD

In celebration of its ruby jubilee or 40th year, AQD organized a week-long exhibit of its R&D accomplishments at a mall (SM City) in Iloilo, Philippines from 3 to 9 June 2013. The opening program was attended by stakeholders

and AQD staff both past and present. The exhibit featured AQD's breeding and culture technologies for high-value commodities like grouper and mud crab; live aquaria; and free technical consultancy.

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Ribbon-cutting to signal the opening of the exhibit: (from left to right) AQD Chief Dr. Felix Ayson, UP Visayas Vice Chancellor for Academic Affairs Dr. Emilia Yap, AQD Deputy Chief Dr. Teruo Azuma, UPV Vice Chancellor for Planning & Development Dr. Evelyn Belleza, AQD Administration & Finance Officer-in-Charge Ms. Kaylin Corre

EDITORIAL

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tool to combat IUU fishing, development of ASEAN Catch Certification, development of regional cooperation on sustainable tuna fisheries management in the Southeast Asian waters, and the initiative to ensure sustainable live reef food fish trade (LRFFT) in the Southeast Asian region. Furthermore, the Council also noted the progress made by the SEAFDEC towards the establishment of the Inland Fishery Resources Development and Management Department (IFRDMD) in Indonesia as new SEAFDEC Department for inland fisheries development.

Several training courses were conducted by SEAFDEC during the quarter, which include the training on mud crab and mangroves; training on freshwater fishery commodities; algae symposium to develop the aquaculture technology of economically-important algae species. In addition, a regional technical workshop was organized focusing on data collection of trawl fisheries management information and data requirements that aimed to address the challenges in the promotion of sustainable fishing practices and improved trawl management.

As AQD celebrates its 40 years of R&D in aquaculture, an exhibition was organized to display the approaches for sustainable and viable fish farming technologies. This was part of the momentous celebration of the ruby jubilee of AQD in July. Throughout the 40 years of its existence, AQD has successfully mustered strength and expertise for the sustainable development of aquaculture in the Southeast Asian region. For such feat, the whole SEAFDEC organization offers its felicitations to AQD for the successes made in the last 40 years and expresses its wish for more achievements in the future for the benefit of the small aqua-farmers in the region. ❖

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on our Newsletter to
secretariat@seafdec.org.

SEAFDEC holds the Forty-fifth Council Meeting

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program of activities to be undertaken in 2013, which were formulated in response to the priorities of the Member Countries.

The Council also discussed a range of issues that require great attention and cooperation, particularly the listing of commercially-exploited aquatic species into the CITES Appendices, development of “Regional Fishing Vessels Record” as a tool to combat IUU fishing, development of ASEAN Catch Certification, development of regional cooperation on sustainable tuna fisheries management in the Southeast Asian waters, and the initiative to ensure sustainable live reef food fish trade in the Southeast Asian region.

The Council while taking note of the “Resolution on Sustainable Live Reef Food Fish Trade (LRFFT) in the Southeast Asian Region and CTI-CFF Member Countries”, also endorsed the Resolution with a view to enhance its implementation in the Southeast Asian region, and authorized SEAFDEC to serve as Interim Secretariat for the LRFFT regional forum.



(Right) Atty. Asis G. Perez, Chairperson of the SEAFDEC Council for the Year 2013-2014

On the establishment of the Inland Fishery Resources Development and Management Department (IFRDMD) in Palembang, Indonesia as new SEAFDEC Department for inland fisheries development, the Council took note of the proposed plan of operation and program of work of the Department. The new Department, once established, would undertake regional activities related to inland fisheries in collaboration with other organizations, particularly the Mekong River Commission, in order to enhance the contribution of inland fisheries to food security and livelihoods of peoples in the Southeast Asian region. ❖

SEAFDEC welcomes Ambassador of the Portuguese Republic

On 25 June 2013, H.E. Mr. Luis Manuel Barreira de Sousa, Ambassador Extraordinary and Plenipotentiary of the Portuguese Republic visited the SEAFDEC Secretariat and discussed with

the Secretary-General, Dr. Chumnarn Pongsri, to obtain information on the roles of SEAFDEC in the promotion of sustainable fisheries in the Southeast Asian region. ❖



H.E. Mr. Luis Manuel Barreira de Sousa (right) during his visit to SEAFDEC

Learning and sharing experiences on CBFM in eastern Thailand and Southwestern Cambodia

On 2-6 July 2013, seven members of the Regional Fisheries Policy Network (RFPN) who are seconded at the SEAFDEC Secretariat, together with SEAFDEC Secretary-General, Dr. Chumnarn Pongsri, SEAFDEC staff, and a representative from the Swedish Agency for Marine and Water Management (SwAM), Ms. Jenny Nord, observed several fishing related activities along the coastal area of eastern seaboard and southwestern part of Cambodia to learn and share experiences on community-based fisheries management (CBFM). In addition, the team also gathered information on habitat rehabilitation, particularly for mangrove, and the operation of fish landing sites in Trat Province (of Thailand) that borders Cambodia. The team visited local research institutions, government provincial offices, fish landing places, and local fisheries communities in Chanthaburi and Trat Provinces in Thailand, and Koh Kong Province in Cambodia.

In addition to the opportunity to learn about practices in the visited areas, the team was also able to follow-up on a SEAFDEC-Sida Project and other initiatives organized in the three provinces, both in Thailand and Cambodia. The trip also allowed discussions on areas for possible future collaboration between SEAFDEC and local partners including research institutions, government



Observing fishing community in Cambodia (top); and species sorting at fish landing place in Thailand (above)

agencies, provincial authorities, coastal communities and community organizations with focus on fisheries and habitat management and social well-being in the border provinces between Cambodia and Thailand.

In the eastern part of Thailand, the team paid a visit to the Faculty of Marine

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Discussion at Trat Provincial Fisheries Office

Tailor-made training courses for Malaysia and Indonesia

Two tailor-made training courses, namely: 1) Shipboard and Simulators Training on Navigation and Marine Simulators; and 2) Overseas Training on Implementation of Port States Measures in Thailand, were organized by the SEAFDEC Training Department (TD) from 28 May to 9 June and 4 to 8 June 2013, respectively.

The first training course was held in response to a request made by the National Agriculture Training Council (NATC) of Malaysia for three of its staff. The training course focused on the operation of navigation and marine engineering simulators, both on shore and onboard the M.V. SEAFDEC.

The second training course was held in response to the request by the Ministry of Marine Affairs and Fisheries of Indonesia for seven officials from the Directorate of Fishing Port. This training course took the trainees through presentations, discussions, and visits to various places relevant to the implementation of Port States Measures in Thailand, such as Samut Sakorn fishing market and Phuket fishing port.



Trainees from the Ministry of Marine Affairs and Fisheries of Indonesia observed the implementation of Port States Measures at a fishing port in Thailand

DEPARTMENTAL ACTIVITIES

AQD hosts an algae symposium and training-workshop

Algae are important live feed for fish, crustaceans and other larvae raised in the hatchery.

“Since only a few of the algal species have been successfully cultivated, hence, a lot more species still need to be explored and studied”, noted AQD Chief Dr. Felix Ayson at the Fifth National Symposium and Scientific Meeting of the Philippine Phycological Society Inc.

Hosted by AQD at its Iloilo Main Station on 16 April 2013, around 100 academicians and government personnel were in attendance. The symposium was followed by a two-day training-workshop on nutritional products from algae. The training included lectures and practical sessions on the uses and extraction of agar, alginates & carrageenan; gel testing; growth kinetics; and lipid, protein & carbohydrates analysis.



(from left to right) AQD Chief Dr. Felix Ayson, “Father of Kappaphycus farming” Dr. Gavino Trono Jr, marine biologist Dr. Paciente Cordero, and algae society president Dr. Maribel Dionisio-Sese at the opening of the algae symposium



AQD conducts marine fish hatchery training

Seven trainees coming from Kenya (4), Myanmar (1) and Philippines (2) finished the International Course on Marine Fish Hatchery conducted from 25 June to 31 July 2013 at AQD’s Tigbauan Main Station in Iloilo.

The month-long course included lectures on biology of marine fishes, broodstock management, larval rearing and hatchery operations as well as in feed development, fish health management & marketing strategies. The participants also had hands-on experience on rearing marine commodities. They also paid a visit to private hatcheries and fish farms where they saw how an actual commercial marine fish hatchery operates.

Trainee, Mr. Anthony Mutua of Kenya’s Marine Fisheries Research Institute, shared his thoughts: “Capture fisheries could not sustain the needs of



A trainee from Kenya sampling grouper broodstock

the people anymore and we need to find alternatives. Kenya is strongly promoting aquaculture. At this training, we were able to gather in-depth knowledge of the techniques to rear marine fish species, grouper, siganid, pompano and milkfish, which are also available in Kenya, and I would like to thank AQD resource persons and staff for training us”.



AQD conducts three courses on freshwater commodities

Training courses on Seed Production and Culture of Giant Freshwater Prawn (4-8 March), Tilapia (12-16 March) and Catfish (1-5 April 2013) were conducted by AQD at its Binangonan Freshwater Station in northern Luzon, Philippines. A total of 15 participants (five in each course) completed the three courses.



Freshwater tanks at AQD hatchery (top); and sex identification of tilapia (above)

During the training, trainees had gone through lectures on the biology & sustainable management of farmed commodities and aquaculture economics. Hands-on practical sessions were also provided during the three courses in order to give them actual experiences in farming operations.



Trainees determining the water quality in a catfish cage

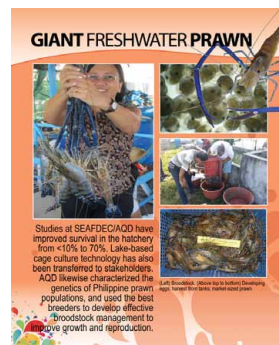
40 years of aquaculture R&D: An exhibit of fish farming technologies developed by AQD

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AQD also attended and put up an exhibit booth at Aquatech 2013 (or the 4th Aquaculture Expo & Convention) held on 30-31 May 2013 in Tagaytay City, Philippines. ☒



Fish figures and fish aquarium



Posters presented at the exhibit booth



Attendees at the Opening program

Learning and sharing experiences on CBFM in eastern Thailand and Southwestern Cambodia

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Technology of Burapha University, the Kung Krabaen Royal Development Study Center, Trat Provincial Fisheries Office, and Chalalai Fishing Port in Khlong Yai district.

The team then moved to Cambodia and met with officers of Fisheries Administration of Cambodia. They had the opportunity to visit 2 communes in the coastal areas of Peam Krasop and Chroy Phros in Koh Kong Province. These communes have demonstrated good and positive examples of the application of community-based fishery management under the Cambodian Sub-

decreed on Community Fisheries. During the site visits, dialogues were made between the team and local partners involved in previous and on-going works.

Further discussions were also carried out in order to allow the village members and local authorities to explain priority issues that are important and need to be addressed. For the SEAFDEC-Sida program, this trip provided a good reference on how to assist in supporting continued sustainability based on the experiences of existing initiatives that have been carried out in those areas, and

in the process of cooperating with the parties involved.

The trip also provided opportunity to the RFPN members to gain more knowledge and insights on past and present activities that are implemented in the communities, on fisheries management and habitat management including the replantation and management of mangroves. The exposure had given them a chance to weigh the pros and cons in conducting similar approach to manage fisheries in combination with management and rehabilitation of coastal habitats (mangroves) in their respective countries. The Team also recognized that good communication and cooperation between parties involved such as government officials, local communities, stakeholders and NGOs is crucial to ensure the success of coastal management initiatives. ☒



Dialogue with local commune in Peam Krasop, Koh Kong, Cambodia

SEAFDEC participates in the National Workshop on Development of Marine Protected Areas in Vietnam

On 6 June 2013, SEAFDEC made a presentation on the “Practical Approach on MPA and Fisheries *Refugia* Network Development, Regional Cooperation and Experience” at the National Workshop on Developing MPA Network in Vietnam-Status and Challenges. This Workshop was organized by the Fisheries Administration of the Ministry of Agriculture and Rural Development of Vietnam.

SEAFDEC through the support of the Swedish International Development Cooperation Agency (Sida) has continued its efforts to strengthen the capacity of fishing communities and agencies to improve the integration of fisheries and habitat management, and the management of fishing capacity. The presentation made by SEAFDEC therefore highlighted on the conservation and regulation of migratory fish stocks through the establishment of “larger fisheries resources conservation areas” as a foundation in habitat management by incorporating existing “management



SEAFDEC Senior Advisor, Dr. Magnus Torell (left) making an intervention for improving the integration of fisheries

areas”. Since MPAs are considered as practical management tool that has potential to support the establishment of fish *refugia* and larger fisheries resources conservation areas, it is envisaged that Vietnam would benefit from a sequence of defined coastal MPAs and other managed areas to support *refugias* and larger fisheries resources conservation areas, including trans-boundary areas, to ensure the sustainability of commercially-exploited fish species. ✠

Short-term training for Thai and Japanese university students

Some 34 students from six different Thai universities and a Japan university participated in an 11-day training course on “Eco-friendly Fisheries for Sustainable Fisheries Resources Management” at the TD office premises, starting from 22 April 2013. The training course imparted knowledge on small-scale fishing gear and principle of oceanographic equipment.

Deployment of crab traps and gill net was carried out in the estuarine fishing ground along the inner Gulf of Thailand, along with basic oceanographical samplings for most of these fishing operations. This well-known bountiful fishing ground is enriched by the drainage from huge watershed (about one third of the country area) of the Chao Phraya River system.



Students learn how to assemble scoop net, a simple fishing gear

At the end of the training course, on 2 May 2013, students not only became familiarized with the estuarine fishermen’s ways of life, but they also created the bonds of inter-university friendship, which are envisaged to help them work together harmoniously in the future as well. ✠

SEAFDEC signs MoU with Nha Trang University

A 5-year Memorandum of Understanding (MoU) between SEAFDEC and Nha Trang University of Vietnam was signed on 3 May 2013 at the premises of SEAFDEC Training Department in Samut Prakan, Thailand. This MoU covers the areas of: 1) exchange of staff/student; 2) joint development of collaborative research projects; 3) joint organization of scientific and cultural events; 4) shared conduct of training courses on the related subjects; and 5) joint issuance of certificates of shared trainings/educational programs in the future.



Nha Trang University President (left), and Dr. Chumnarn Pongsri (right) during the MoU signing ceremony

Nha Trang University is located in Nha Trang of Khanh Hoa Province that lies along Vietnam's South Central Coast. It was originally founded on 1 August 1959 as Fisheries Faculty of Hanoi Institute of Agriculture and Forestry. Following the Prime Minister’s Decision No. 155-CP of 16 August 1966, the Faculty became an autonomous School of Fisheries. In 1977, the School was relocated to Nha Trang as University of Sea-product Technology. In 1980, the university was again renamed as University of Fisheries; and following the Prime Minister’s Decision No. 172/2006/QĐ-TTg of 25 July 2006, the name was again changed to Nha Trang University. ✠

AQD and partners convene mud crab workshop in India; Dr. ET Quintio honored

AQD collaborated with the Rajiv Gandhi Centre for Aquaculture (RGCA) and the R&D arm of India's Marine Products Export Development Authority (MPEDA) to organize the "International Seminar-workshop on Mud Crab Aquaculture and Fisheries Management" (ISMAF 2013) in Tamil Nadu, India from 10 to 12 April 2013.

AQD scientists, Dr. Emilia Quintio, Dr. Junemie Lebata-Ramos, Dr. Veronica Alava, Dr. Fe Estepa, Dr. Mae Catacutan,

and AQD scientist emerita Dr. Jurgenne Primavera represented AQD during the seminar-workshop as presenters and workshop leaders. Dr. Quintio was given a citation by the RGCA president and MPEDA Chair Ms. Leena Nair for her "great contribution to the mud crab industry in India" and her name was inscribed at the entrance of the RGCA mud crab hatchery.

The three-day seminar-workshop had over a hundred participants. There were



Citation given to AQD Scientist Dr. Emilia Quintio by the RGCA President and MPEDA Chair during the International Seminar-workshop on Mud Crab Aquaculture and Fisheries Management in India



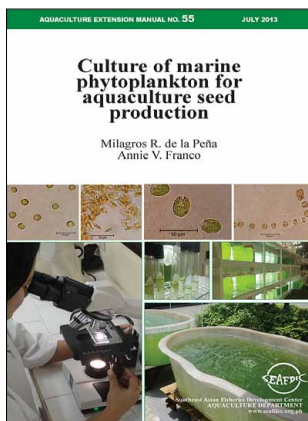
The name of AQD Scientist Dr. Emilia Quintio inscribed in a marker at the entrance of RGCA mud crab hatchery in India

8 country papers, 31 contributed papers in the technical sessions (22 oral and nine poster presentations), three workshop sessions and two field trips. ☒

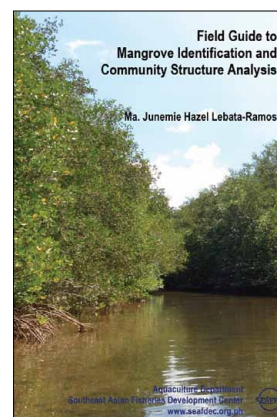
New AQD's Publications

Culture of marine phytoplankton for aquaculture seed production. The 32-page extension manual describes the biology, culture techniques and maintenance, and mass propagation of 12 phytoplankton species that are commonly used as live feed in marine hatcheries. The lead author, Ms. Milagros de la Peña, is an AQD researcher working with the live food production team, making substantial contributions

in the standardization and improvement of microalgal culture techniques and in maintaining and preserving AQD's algal culture collection. Co-author, Ms. Annie Franco, is a senior technical assistant, maintaining AQD's microalgal strains and serving as practical instructor in training courses with live food as component.



Field guide to mangrove identification and community structure analysis. The field guide provides a key and images of plants and plant parts for identifying Philippine mangrove species; instructions on how to lay out quadrats and solve equations needed for mangrove community analysis; and a glossary. The guide is intended for researchers, academicians, students and those in government and non-government organizations actively involved in mangrove research. The sole author Dr.



Junemie Lebata-Ramos is a scientist at AQD and has worked on mangrove starting 1993. She has published papers on the mangrove clam *Anodontia philippiana* and mangrove crabs *Scylla* spp. She is also a lecturer on mangrove ecology, conservation and management, coastal resource management and stock enhancement in AQD training courses. Dr. Ramos is currently working on the stock enhancement of some marine invertebrates and the impacts of aquaculture to the environment. ☒

SPECIAL REPORT

An Option for ASEAN Member States in Coping with IUU Fishing: “Establishment of Regional Fishing Vessels Record”

By Chumnarn Pongsri, Kenji Matsumoto and Somboon Siriraksophon
SEAFDEC Secretariat

In the Southeast Asian region, issues on IUU fishing have been seriously discussed in many events at national, regional and international levels and thus, attempts to reduce IUU fishing activities have been initiated. Established in 2008 with SEAFDEC as one of its advisory bodies, the RPOA-IUU or “Regional Plan of Action to Promote Responsible Fishing Practices including Combating IUU Fishing in the Southeast Asia Region” plays an important role in addressing the issues brought about by IUU fishing. Considering similar mandates of promoting responsible fisheries for sustainability and secure food safety in the region, SEAFDEC, RPOA-IUU and the ASEAN have been collaborating in the aspects of promoting sustainable fisheries and combating IUU fishing in the region.

Specifically, SEAFDEC supports both regional and international approaches to prevent, deter and eliminate IUU fishing in the Southeast Asian region. Thus, under the ASEAN-SEAFDEC Collaborative Programs of the Fisheries Consultative Group of the ASEAN-SEAFDEC Strategic Partnership (FCG/ASSP), SEAFDEC considers it as its first priority, the need to address the concerns of the ASEAN Member States with regards to IUU fishing as well as the direct and indirect impacts of IUU fishing to small-scale fisheries.

Occurrence of IUU Fishing in the ASEAN Region

The rapid growth of the fisheries industry in Southeast Asia since late 1970s has led to increased fishing capacity, especially with the use of highly efficient fishing gear such as trawls and later purse seines, and increased capacities of processing plants. Moreover, fishing areas have been largely expanded covering international waters particularly the South China Sea, and offshore areas within the Southeast Asian region where the EEZs used to be only 12 nm. The adoption of 200 nm EEZs after 1982 created significant impacts in many ASEAN Member States including the increasing requirements for more raw fish materials to supply their respective processing industries.

The expansion of EEZs to 200 nm without effective MCS and fisheries management schemes was also seen as a primary reason that drives the fishing industry to perform illegal fishing or known later as IUU fishing. There could be many types of IUU fishing, but among the major forms are: unlicensed

fishing, landing of fish in neighboring states, using double flags, and illegal fishing and practices. Figure 1 shows the occurrence of IUU fishing activities in the Southeast Asian region.

As the world’s largest archipelago, Indonesia has been monitoring its waters and in the process, has observed that illegal fishing in its territory is still happening quite often. For instance, from 2008 to 2012, the country’s record indicated that most of illegal fishing boats that come to the country’s Natuna Sea spreading to the Strait of Karimata and the Java Sea, were from Vietnam, Thailand, and Malaysia, and a very large one from China. These boats were apprehended and the crew arrested by Indonesia authorities.

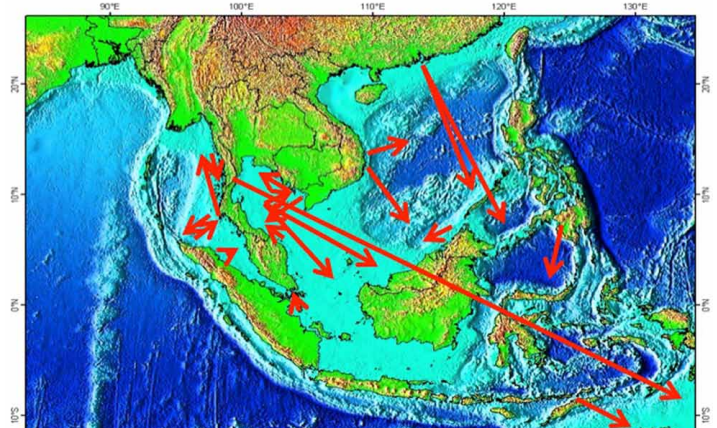


Figure 1. The occurrence of IUU fishing activities in the Southeast Asian region

Impacts of IUU Fishing

The annual production from IUU fishing activities is believed to be from 11 to 26 million MT, accounting for about 10% to 22% of the world’s total fisheries production, and valued at about US\$ 9.0 to US\$ 24.0 billion per year (MRAG, 2009). Nonetheless, some studies estimated that the value of IUU fishing in the Asia-Pacific region (including South Asian countries) could be around US\$5.8 billion annually (Lungren, R. *et al.* 2006, FAO). The impacts of IUU fishing is not only in terms of losses in revenues and resources but also in the aspects of economic, social and environmental concerns. For example, IUU fishing could result in decreasing contributions from EEZ fisheries to the national economies, reducing the potential employment opportunities that local and



locally-based fleets usually create, decreasing local landings and potential export earnings, needing additional budget for MCS/fisheries management, limiting the accuracy of stock assessment models, and reducing species richness and diversity, among others.

It has been reported that in Indonesia, their traditional fisherfolks are often left on their own to deal with illegal fishers. This is usually the case in border areas such as in East Kalimantan and North Sumatra where Indonesian fisherfolks often encounters fishing trawlers owned by foreigners, including those from the Philippines and Malaysia (Pontianak Post (Part 1 of 4), 2012).

Regional approaches to Prevent IUU Fishing/ Illegal Fishing

In practical ways, many ASEAN Member States considered that the implementation of Monitoring, Control and Surveillance (MCS) scheme plays a key role to prevent IUU fishing, particularly illegal fishing. However, under such circumstance, the implementation of MCS should cover the following issues:

- Joint marine patrol by the Navy, police and department of fisheries, of which the vessels should be equipped with new engine technology and should be fast,
- Need to enhance awareness of the use of advance technology such as coastal radar that could be installed in the vicinities to track illegal vessels,
- Installation of VMS (Vessel Monitoring System) on fishing vessels (either local or foreign) that already have licensed,
- Enhancing human resources in order to effectively and efficiently carry out their duties, properly, and professionally in their fields to avoid any breach or things that deviate from laws and regulations.

In order to support the implementation of MCS, SEAFDEC and the ASEAN, through the technical/expert consultations

with ASEAN Member States have agreed in principle to establish a Regional Fishing Vessels Record (hereinafter called the “Regional Record”) as a tool to combat IUU fishing in the Southeast Asian region. The proposed Regional Record was endorsed at the 45th Meeting of the SEAFDEC Council Directors in April 2013, while still waiting for endorsement by the ASWGF in late July 2013 and to SOM/AMAF for policy advises and adoption in September 2013. Nonetheless, the Regional Record that has been initially developed is initially limited to fishing vessels 24 meters in length and over, of which the basic requirements for the Regional Record as suggested by the Experts are shown as follows:

• Name of vessel	• Serial number of engine
• Type of fishing method/ gear	• Hull material
• Port of registry	• Date of registration
• Gross tonnage (G.T.)	• Area (country) of fishing operation
• Length (L)	• National of vessel (flag)
• Breadth (B)	• Previous name (if any)
• Depth (D)	• Previous flag (if any)
• Engine Power	• Name of captain/master
• Shipyard	• Nationality of captain/ master
• Date of launching	• Number of crew (maximum/minimum))
• International Radio Call Sign	• Nationality of crew
• Engine Brand	

SEAFDEC and the ASEAN Member States recognized the ongoing development of the Global Record of Fishing Vessels, Refrigerated Transport Vessels, & Supply Vessels initiated by FAO. For this reason, the Regional Record is developed along line with the Global Record to ensure that sharing of information could be promoted in the future as and when requested.



REGIONAL PROGRAMS

SEAFDEC takes part at the Asia Conference on Oceans, Food Security and Blue Growth 2013

SEAFDEC led by the Secretary-General, Dr. Chumnarn Pongsri, took part in the Asia Conference on Oceans, Food Security and Blue Growth (ACOFB) on 18-21 June 2013 in Bali, Indonesia. The Conference aimed to come up with an Asian Roadmap to promote food security and food supply from the oceans in order to contribute to the subsequent Global Summit Conference on Oceans, Food Security and Blue Growth scheduled in Hague, the Netherlands on 9-13 September.

During the Conference, Dr. Chumnarn presented the experience of the ASEAN-SEAFDEC Member Countries in the formulation and implementation of the Resolution and Plan of Action on Sustainable Fisheries for Food Security for the ASEAN Region Towards 2020. His presentation particularly focused on priority issues, namely: the need to replace “open access to fisheries” with “limited access” through co-management and rights-based fisheries, the urgent call for combating IUU fishing particularly illegal and destructive fishing, development of responsible and selective fishing gears and practices, application of ecosystem approach to fisheries, improving understanding on the status of fishery resources, and enhancing the compliance with international and trade-related requirements. He emphasized



Dr. Chumnarn Pongsri sharing views and experiences from the Southeast Asian fisheries perspective

that while the regional framework had already been adopted, actual practice is still faced with various conditions, particularly from the nature of fisheries that is multi-species, fishing gears are generally non-selective, most of fishers are small-scale and marginalized, large number of fishing boats, etc.

These factors create difficulties in management, formulation and implementation of regulations, data collection, as well as in complying with various requirements that emerged at the global level. Countries should therefore focus on implementing the Plan of Action, taking into consideration the aforementioned situation. ❏



SEAFDEC Secretary-General, Dr. Chumnarn Pongsri (2nd from right) during the panel discussion

Following-up on training for trainers in Cambodia



SEAFDEC Training Department in collaboration with Fisheries Administration of Cambodia organized an on-site training course for community fisheries on 3-7 June 2013 in Siem Reap. Trainees who were previously trained last year during the “Practical Approach to Co-management in Inland Fisheries of Cambodia” served as resource persons at this training, which was attended by 43 fisheries community members to learn about the methods for protection and management of critical fisheries habitats in their community. ❏

SEAFDEC joins the Regional Workshop on Anti-Corruption

SEAFDEC took part the two-day Regional Workshop on Anti-Corruption, organized by the Swedish Embassy in Bangkok on 22-23 May 2013. The Workshop aimed to raise the awareness of the risks and consequences of corruption, as well as the capacity of partners to better handle the risks of corruption in their work.

The Workshop brought altogether different regionally supported organizations that received supports from the Swedish Government, including SEAFDEC which was presented by Dr. Magnus Torell and Ms. Pattaratjit Kaewnuratchadasorn. The Workshop also provided valuable information on the opportunity of building network among partners and across the sectors. ❏

SEAFDEC/REBYC-II CTI Project organizes workshop on data collection of trawl fisheries

The Regional Technical Workshop on Data Collection of Trawl Fisheries Management - Information and Data Requirements was organized by SEAFDEC Training Department and Strategies for Trawl Fisheries Bycatch Management (REBYC-II CTI) project from 8 to 11 May 2013 at the premises of SEAFDEC Training Department in Samut Prakan, Thailand. Thirty participants from the project's Member Countries, FAO, and SEAFDEC/TD attended this event.

The tangible outputs of the workshop included: 1) agreed set of data and data collection methodologies appropriate for implementation in project countries; 2) indicators that allow fisheries/resource managers to evaluate the impacts of management measures on the fishery, and associated social and ecological systems that provide feedback to guide the trawl fishery management process and decisions; and 3) improved knowledge of the region's trawl fisheries and its catch composition enabling the formulation of regional guidelines, advice and tools for improved trawl fisheries governance and policy processes.

The REBYC-II CTI is the second phase of the 2002-2008 FAO/UNEP/GEF global project on "Reduction of Environmental Impact from Tropical Shrimp Trawling through the Introduction



of Bycatch Reduction Technologies and Change of Management (REBYC)". With its 4-year term began in 2011, the project intends to focus on multi-species bottom trawling, where bycatch issues are among the most serious. The project also aims to address these challenges by promoting sustainable fishing practices and improved trawl management. It is expected that the project will contribute to the more sustainable use of fisheries resources and healthier marine ecosystems in the Coral Triangle and Southeast Asian waters by reducing bycatch, discards at sea, and fishing impact by trawl fisheries. The project is executed by SEAFDEC in partnership with the private sector and national, regional and international organizations, e.g. CIM, IFFO, RFLP, SIDA, SPC and WWF. Participating countries include Indonesia, Papua New Guinea, Philippines, Thailand and Vietnam. ❖

SEAFDEC participates in the Technical Consultation on SSF Guidelines

SEAFDEC Secretary-General Dr. Chumnarn Pongsri, and Policy and Program Coordinator Dr. Somboon Siriraksophon attended the Technical Consultation on International Guidelines for Securing Sustainable Small-scale Fisheries held on 20-24 May 2013 at the FAO Headquarters in Rome, Italy.

The Voluntary Guidelines for Securing Sustainable Small-scale Fisheries, in the context of food security and poverty eradication, had been developed as a complement to the 1995 FAO Code of Conduct for Responsible Fisheries (CCRF) to provide complementary guidance with respect to small-scale fisheries in support of the overall principles and provisions of the CCRF. Accordingly, the Guidelines are intended to support the visibility, recognition and enhancement of the already important role of small-scale fisheries and to contribute to global and national efforts towards the eradication of hunger and poverty. The Guidelines also support responsible governance of fisheries and sustainable social and economic development for the benefit of current and future generations, with emphasis on vulnerable and marginalized people such as women, children and the elderly, indigenous peoples and food insecure groups – promoting a human rights based approach.

Representatives from SEAFDEC Member Countries namely Indonesia, Japan, Philippines, and Vietnam also attended the Meeting. During the Meeting, about 50% of the Guidelines had been discussed. FAO plans to seek support from donors for organizing another consultative meeting in order to come-up with the final draft of the Guidelines for endorsement at the next FAO/COFI in 2014 (more details are available at: <http://www.fao.org/fishery/ssf/guidelines/en>). ❖



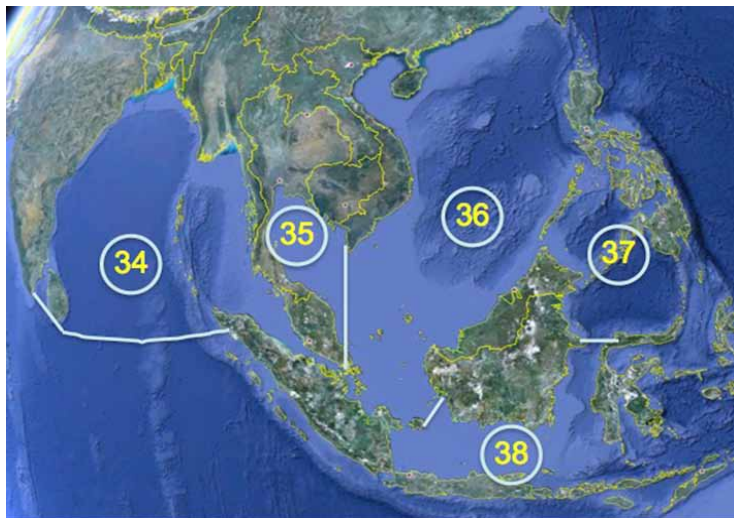
Participants during the REBYC-II CTI regional technical workshop

SEAFDEC takes part in the Indonesian seas LME meeting

SEAFDEC Policy and Program Coordinator, Dr. Somboon Siriraksophon, who is also the project coordinator for the UNEP/GEF/SCS on Fisheries *Refugia*, together with Mr. Isara Chanrachkij Project Technical Advisor of REBYC-II CTI from the SEAFDEC Training

Department, attended the International Waters LEARN Twinning Exchange: Indonesia Seas LME Meeting held in Bali, Indonesia on 17 June 2013. The Meeting, attended by five parties from different GEF-IW projects, namely: Arafura-Timor Seas (ATSEA), Sulu-

Celebes Seas (SCS), Bay of Bengal Large Marines Ecosystems (BOBLMEs), REBYC-II CTI, and Fisheries *Refugia* in the South China Sea, was aimed at sharing lessons learned from important technical topics including coastal, marine environmental conservation and fisheries management; e.g. stock assessment, EAF, MPAs, oceanography, marine pollution, etc. The knowledge and experiences shared also included the procedural/operational topics on Trans-boundary Diagnostics Analysis from each project.



Large Marine Eco-system in Southeast Asian Region (with linked Watershed):
34: Bay of Bengal; 35: Gulf of Thailand; 36: South China Sea;
37: Sulu-Celebes Seas; and 38: Indonesian Sea

The output which was a Concept Note for an Indonesian Seas LME Project was presented during the Indian Ocean and Pacific Conference (IOPAC-2013) and at the Asia Conference on Ocean, Food Security and Blue Growth (ACOFB-2013) held back-to-back, after the meeting to obtain further policy recommendations. ❏

SEAFDEC joins annual workshop of the project on “Assessing Economic and Welfare Values of Fish in the Lower Mekong Basin”

SEAFDEC, represented by Ms. Pattaratjit Kaewnuratchadasorn, Ms. Saivason Klinsukhon and Mr. Leng Sam Ath (RFPN member from Cambodia) participated in the Annual Workshop of the Project entitled “Assessing Economic and Welfare Values of Fish in the Lower Mekong Basin”, organized by the WorldFish Center with support from the Australian Centre for International Agricultural Research (ACIAR) on 28 June 2013 in Cambodia.



SEAFDEC joined the annual workshop conducted by the WorldFish Center

During the half-day workshop, the results and methodologies of the research implemented by various agencies, namely: the Inland Fisheries Research and Development Institute (IFReDI), Cambodia Agricultural Research and Development Institute (CARDI), Ubon Ratchathani University, Cantho University, Royal University of Phnom Penh, and the National University of Laos, were presented. The overall

objectives of the project were to quantify the multiple values of fish resources in Cambodia, forward information to relevant stakeholders, and put in place a network of academic partnerships for monitoring of the fish resources. The workshop discussed the progress of the four components of the project: Welfare Valuation, Marketing, Biology, and University.

SEAFDEC would continue to closely communicate with the WorldFish Center, and strengthen collaboration and coordination with other collaborative partners and stakeholders to support the Member Countries in the Lower Mekong Basin, as well as sharing of experiences from this project to other countries in the region. ❏

On-site training on co-management organized for Vietnam and Cambodia

The SEAFDEC Training Department in collaboration with the Ministry of Agriculture and Rural Development (MARD) of Vietnam, organized a training course on “Facilitating Fisheries Information Gathering Through Introduction of Community-based Fisheries Management” from 13 to 17 May 2013 in the city of Thanh Hoa, about 100 km south of Hanoi, Vietnam. Thirty-five fishery officers responsible for fishery information attended the training course. The trainees were guided to analyze existing information from several pilot projects and to design inland fishery management plans relevant to specific local conditions. The strategy of using local fishers groups to collect and analyze relevant fishery data was highlighted.

Moreover, for Cambodia, an on-site training course on “Practical Approach to Co-management in Inland Fisheries of Cambodia” was organized



Trainees from MARD of Vietnam attending the training course

in collaboration with the Fisheries Administration from 20 to 23 May 2013 in Siem Reap. Thirty-four fishery officers attended the training course, which aimed to support the Cambodian Government’s strategic framework of “decentralization and deconcentration known as D&D”, and eventually to mobilize these trainees

as trainers in furthering capacity building on the application of co-management concept in inland fisheries in the country. Officials of the two countries expressed appreciation to the activities, which have enhanced the capacity of their respective staff on the application of co-management in the future. ☒

SEAFDEC at the 4th ASEAN National Focal Point of Tuna Working Group Meeting

SEAFDEC was represented during the 4th ASEAN National Focal Point of Tuna Working Group Meeting, hosted by Department of Fisheries of Thailand in Bangkok, Thailand on 19-21 June 2013.

Officials and private fisheries sectors from four ASEAN Member States, namely: Indonesia, Malaysia, Thailand and Vietnam including representatives

from SEAFDEC Secretariat and TD attended the Meeting, which updated the progress of the strategic program thrusts led by Thailand. During the Meeting, SEAFDEC presented the concept on promoting sustainable tuna fisheries management in Southeast Asian waters through regional cooperation. Meanwhile, the Meeting was informed on the drafting of the Plan of Action for



Sustainable Tuna Fisheries Management as requested at the 45th Meeting of the SEAFDEC Council.



Nevertheless, with emerging concerns on the importance of tuna trade, the Meeting expressed the need for Strategic Plan of Action for Enhancing Tuna Intra-regional Trades in ASEAN Region, and SEAFDEC was requested to develop the first draft of the document for consideration before the next Working Group Meeting in 2014. ☒

FUTURE ACTIVITIES

Date	Venue	Title	Organizer(s)
2013			
6-14 August	Pohnpei, Micronesia	9 th Regular Session of the Scientific Committee of the Western and Central Pacific Fisheries Commission (WCPFC)	WCPFC
13-16 August	Champasak, Lao PDR	Special SOM-34 th AMAF, and SOM-12 th AMAF Plus Three	ASEAN
20-21 August	Kuala Lumpur, Malaysia	Sub-regional Technical Meeting for Development of Joint Research Program for Tuna Research Program for Tuna Research Survey in Sulu-Sulawesi Seas	TD
20-22 August	Manado, Indonesia	CTI-CFF Regional Priorities Workshop	CTI-CFF
4-6 September	Bangkok, Thailand	Pacem in Maribus XXXIV International Forum on Sustainable Governance of the Ocean	IOI
9-13 September	The Hague, Netherland	Global Summit Conference on Oceans, Food Security and Blue Growth	Netherland
11-12 September	Singapore	End-of-Project Seminar on Utilization of Freshwater Fish for Value-added Products	MFRD
12-13 September	Makasar, Indonesia	Regional Tripartite Meeting on Work in Fishing	Indonesia
16-20 September	Rizal, Philippines	Training on Catfish Hatchery and Grow-out Operations	AQD
23-29 September	KL, Malaysia	35 th ASEAN Ministers on Agriculture and Forestry Meeting	ASEAN
30 Sept-4 Oct	Phuket, Thailand	APFIC Regional Expert Workshop on Tropical Trawl Fishery Management	APFIC
2-17 October	Iloilo, Philippines	Training Course on Sandfish (<i>Holothuria scabra</i>) Seed Production, Nursery and Management	AQD
3-4 October	Bangkok, Thailand	Special Meeting of the SEAFDEC Council	SEAFDEC
7-9 October	Kuala Lumpur, Malaysia	Core Expert Meeting on Combating IUU Fishing in the Southeast Asian Region through Application of Catch Certification for International Trade in Fish and Fishery Products	MFRDMD
7-11 October	St. Petersburg, Russia	7 th Session of COFI - Sub-Committee on Aquaculture	FAO
8-10 October	Songkhla, Thailand	Consultation Meeting on Neritic Tuna Regional Cooperation in Southeast Asian Waters	SEAFDEC
15-30 October	Iloilo, Philippines	Specialized Courses on Feed Formulation and Seaweed Culture	AQD
22-24 October	Kuala Lumpur, Malaysia	Core Expert Meeting on Management of Sea Turtle Foraging Habitats in Southeast Asian Waters	MFRDMD
22-27 October	Spain	15 th Working Party on Tropical Tunas	IOTC
30 Oct-1 Nov	Thailand	14 th SEAFDEC Information Staff Program (ISP) Meeting	SEAFDEC
October (Tentative)	...	Regional Training-cum-workshop on Co-management (Including local-community-based approaches to responsible fisheries), Selective Fishing Gears and Other Practices	TD/REBYC-II CTI
5-7 November	Thailand	2 nd On-site Training Workshop on Traceability Systems for Aquaculture Shrimp	MFRD
5-19 November	Iloilo, Philippines	Training Course on Shrimp Culture	AQD
25 Nov-4 Dec	Rizal, Philippines	Training Course on Community-based Freshwater Aquaculture for Remote Rural Areas of Southeast Asia	AQD
25-27 November	Penang, Malaysia	36 th Meeting of SEAFDEC Program Committee	Secretariat, MFRDMD
28-29 November	Penang, Malaysia	16 th Meeting of Fisheries Consultative Group of the ASEAN-SEAFDEC Strategic Partnership (FCG/ASSP)	SEAFDEC



Call for papers @RESA 2014: International workshop on resource enhancement and sustainable aquaculture



Organized by AQD with funding support from the Government of Japan, RESA 2014 or the "International Workshop on Resource Enhancement and Sustainable Aquaculture Practices in Southeast Asia" will be held on 5-7 March 2014 in Iloilo City, Philippines. With the workshop theme on "Challenges in responsible production of aquatic species", papers on the following topics are invited for either oral or poster presentation:

- Establishment of stock enhancement strategies for over-exploited and/or endangered species;
- Resource enhancement through community-based management;
- Refinement of hatchery and nursery technologies;
- Updates on seed production technologies;
- Genetics in aquaculture and stock enhancement;
- Feed development and management;
- Good aquaculture practices/ responsible aquaculture;
- Affordable and economically viable aquaculture technologies; and
- Other matters supporting resource enhancement and sustainable aquaculture practices.

Deadline for abstract submission is 15 January 2014. Early registrants (before 31 January 2014) will enjoy discount:

Category	Early registration fee	Normal fee
International participant		
Student	US\$ 100	US\$ 125
Non-student	US\$ 150	US\$ 200
Local (Philippine) participant		
Student	PHP 3,000	PHP 3,500
Non-student	PHP 4,000	PHP 4,500

More information can be obtained at www.seafdec.org.ph or through e-mailing to iwresa@seafdec.org.ph.

Note for contributors

The SEAFDEC Newsletter publishes quarterly news on all aspects of fisheries in Southeast Asia. The Editors reserve the right to accept and/or abridge articles based on available space. Anyone wishing to submit an article to the SEAFDEC Newsletter is requested to send it to the Editor in Chief or Editors at the given addresses.

Information in this Newsletter may be quoted only if reference is made to SEAFDEC.

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AQD conducts training on mud crab and mangroves

Mangroves-and-mud crab is a tandem that bodes well for both profit-oriented fish farmers and environment-oriented resource managers. For the former, AQD successfully completed its international course offering on “Mud Crab Hatchery, Nursery and Grow-out Operations” on 12 June 2013. The three-week course at AQD’s Main Station in Iloilo was attended by Indonesia (1), Philippines (7) and Bangladesh (2). Lecture topics and practical exercises included broodstock management; induced spawning techniques; production of natural food organisms; and larval, nursery and grow-out culture techniques.




AQD's mud crab hatchery for practical session



(left) Measuring a mud crab broodstock; and (right) demonstration of the right techniques for bagging, planting and removal of epiphytes-barnacles



For mangroves, the ELTI (USA-based Environment Leadership & Training Initiative) funded, partnered with Zoological Society of London (ZSL) and AQD in conducting the training course on “Community-based Mangrove Rehabilitation” from 17 to 21 June 2013. A total of 22 trainees from three clusters of people’s organizations in the Philippines (Luzon, Palawan and Northern Samar) attended. Their feedback on the course was quite positive, with most participants indicating that their (technical) learnings can be applied

within 3-6 months in their respective project sites. 



Identifying mangrove species using a key published by Pew Fellows Program, ZSL and AQD

TD, ICES and FAO co-organize International Symposium on Impact of Fishing

A mini symposium on “Impact of Fishing on the Environment”, and the meeting of the Working Group on Fishing Technology and Fish Behaviour (WGFTFB) 2013 under the International Council for the Exploration of the Sea (ICES) and FAO was co-organized by the FAO, ICES and SEAFDEC Training

Department from 6 to 10 May 2013 at the premises of TD in Samut Prakan, Thailand.

More than 120 participants worldwide attended this event. During the first three days, the symposium devoted its time to the thematic discussions on: 1)



Low Impact and Fuel Efficient (LIFE) Fishing; 2) Use of Artificial Light as a Stimulus on Fish Behavior in Fish Capture (LIGHT); and 3) Selectivity of Trawls in Multispecies/Crustacean Fisheries (SHRIMP). For the last two days, the symposium featured the business of ICES working group that included sessions on specific topic groups as well as selection of a new ICES WGFTFB chair, selection of chairs and Terms of Reference for the 2013 Joint Session with WGFASST and proposals for 2014 topics. 