

Part III: Year 2 SUMMARY PROCEEDINGS

Summary proceedings

This meeting was administered by NFRDI-ROK, co-organized with DA-BFAR, as main activity for the project's year-2 implementation. It was participated in by fisheries experts from Association of South-East Asian Nations (ASEAN) member countries such as (Cambodia, Indonesia, Malaysia, Myanmar, the Philippines, Thailand and Vietnam) and officials from international organizations such as ASEAN Secretariat Office, Food and Agriculture organization (FAO), the Worldfish Center, Network of Aquaculture Centres in Asia-Pacific (NACA), South-East Asia Fisheries Development Center (SEAFDEC), Ministry of Food, Agriculture, Forestry and Fisheries (MIFAFF) and National Fisheries Research and Development Institute of Korea (NFRDI-ROK).

Following are the highlights of this RTD/Consultation Meeting:

1. Officials from the NFRDI- Korea, Maritime Affairs, Agriculture and Fisheries Bureau of Busan, and Bilateral Negotiation & Cooperation Division of the MIFAFF welcome all participants and commended the conduct of the meeting as it is very timely and useful for current climate change happenings not only for ASEAN but also for ROK. They see climate change not only as a crisis but as well as an opportunity to learn and improve ways of living. They inform the participants that ROK shall implement enhancing capacity on climate change adaptation, enhance green energy, practice green lifestyle, and pursue green international cooperation. They expected the workshop to create substantive contribution to CC adaptation and food security.

2. Ms. Ortiz presented the overview of the project while Dr Lopez presented the output of the project's Y1 seminar workshop and the objectives/expectations of the said RTD/Consultation meeting as follows:
 - a. To present, discuss and evaluate Year 1 project outputs as focal subject of regional networking interventions by concerned institutions; (Year 1 Project Output Recommendations well presented, evaluated, discussed and accorded priority thrust);
 - b. To present regional/international priority and pipelined programs of donor institutions/agencies relative to climate change adaptation in aquaculture with the end in-view of addressing emerging issues and future trends of impacts to the industry in the region; (Institutional Programs/Projects matches and addresses the emerging issues of AMS); and
 - c. To harmonize, consolidate and integrate all institutional intervention approach into a cohesive and concerted effort thru a regional networking. (Institutional agreements and pledge of commitments by participating institutions/agencies incollaboration with AMS and the continued support of FAO-ASEAN for harmonized efforts thru regional networking).

Based from the recent FAO Conference which Dr Lopez attended in Beijing, he informed the group of the interest from other ASEAN member countries (Laos, Singapore and Brunei) and other countries such as China and Japan to join the ASEAN-ROK network on CC adaptation in aquaculture.

3. The following experts from invited intergovernmental institutions presented their Climate Change Programs in Aquaculture:
 - a. Dr MIAO Weimin presented the FAO vision, strategies and project activities addressing CC in fisheries and aquaculture.
 - b. Dr Heinz Fred Weirowski, Senior Aquaculture Expert of The WorldFish Center presented the Worldfish Program for CCA on

Aquatic - Agriculture Systems.

- c. Dr Teruo Azuma of SEAFDEC-AQD in Iloilo presented current programs of SEAFDEC related to climate change adaptation in aquaculture
 - d. Prof. Sena de Silva, Director General of NACA presented the “Implications of climate change on aquaculture - vulnerabilities, adaptations and mitigations - An Asia-pacific regional Perspective”
 - e. Dr. Young Sang Suh and Dr. Qtae Jo of NFRDI-ROK presented the “Ocean Climate Change in Korean Waters” and “Potential Influence of Climate Change on Aquaculture Industry”.
4. Dir. Somsak Pipoppinyo, ASEAN Secretariat’s Director of Finance, industries and Infrastructure Directorate, presented the regional policy frameworks and initiatives for ASEAN which includes ASEAN Integrated Food Security (AIFS) Framework and ASEAN Multi-Sectoral Framework on Climate Change: Agriculture, Fisheries and Forestry towards Food Security (AFCC). He discussed in detail the AFCC Framework which initially includes agriculture and forestry as major focus areas that will later on cover fisheries and other sectors such as health, energy, among others. He showed the coordination structure wherein ASEAN-ROK CC network can fit in. He emphasized the need to come-up with a common voice on strategies and balance on addressing the issue and how countries can work together in terms of climate change adaptation/mitigation.
- He highlighted the AFCC’s 3rd component - to have an information, communication and networking to promote regional cooperation and make use of existing networks in ASEAN (i.e., ARKN on forest and climate change). To continue networking, ASEAN-ROK network may look at the possibility of linking with AFSIS. He wished to have a discussion on how the ASEAN-ROK CC network of aquaculture can participate in the AFCC, knowledge database, info sharing. He hoped that the network will continue and emphasized that “ASEC recognized that this CC network initiative for aquaculture is IMPORTANT!” as well as ASEAN already recognize

the importance of fisheries/aquaculture in the ASEAN Framework.

He also mentioned that although this project is under SEOM, the network can be part of the AFCC. AFCC is how ASEAN will work on CC, developed thru German support. The network may fit it under the said ASEAN Climate Change initiative under component 4 - for coordination all the issues on CC, wherein agriculture may expand to include fisheries. ASEAN may move forward with this network due to urgency of CC effects (e.g., to small scale fishers, etc).

In terms of funding, Dir Pipoppinyo noted the project can be matched with the potential funding under ASEAN's normal track. They have ASEAN ROK trust fund to request for contribution (ROK is one of the dialogues partners of ASEAN). According to him, "This is basically the initial phase, in a nut shell this is something you have to do. ASEC can help on their normal track, (i.e. from Ministry of Commerce and other sources of funds). However, they require a GOOD PROPOSAL, indicating what the group wants to do to have a strong network and it should contribute to ASEAN Agenda. It should have a clear vision (short term, long-term) of what to address in the future (i.e., food security, crisis prevention, etc), priority activities and direction. It may follow the forestry network where it entered into covenant against illegal logging.

5. Ms. Aleli Maghirang of Philippines DA presented the "Summary of all the Institutions' CC programs on Aquaculture/Fisheries' matched with the recommendations made on CC adaptation/mitigation, and addressing CC resiliency during the year1 seminar workshop
6. After all the presentations, round table discussion was held among participating AMS and institutions. The group decided to discuss next steps on how to move forward for the continuation of the ASEAN-ROK network.

Minutes of the meeting

This meeting was participated in by fisheries experts from ASEAN member countries such as (Cambodia, Indonesia, Malaysia, Myanmar, the Philippines, Thailand and Vietnam) and officials from international organizations such as ASEC, FAO, Worldfish, NACA, SEAFDEC, MIFAFF and NFRDI-ROK. The Program Agenda and lists of participants are attached as Annexes 1 and 2, respectively in this report.

The opening programme officially started at 9:10AM with Dr. Eon Jong Kang of NFRDI as the master of ceremony. Dr. Eung-Oh Kim, Director of AMD-NFRDI delivered the opening remarks (Annex 3,) while high-level officials from Busan welcome the delegates and resource speakers to the event. They include (i) Dr. Woo Jeung Choi, Director General of NFRDI's Fundamental Research Department on behalf of Hon. NFRDI President Young Man Kim, (ii) Mr. Hyun-Min Jung, Director General of Maritime Affairs, Agriculture and Fisheries Bureau of Busan, and (iii) Mr. Won Chul Joo, Director of Bilateral Negotiation & Cooperation Division of the Ministry of Food, Agriculture, Forestry and Fisheries (MIFAFF). Copies of their messages are shown in Annexes 4 to 6. All the honourable guests thanked the organizers of the meeting, NFRDI and DA-BFAR, and commend the conduct of the meeting as it is very timely and useful for current climate change happenings not only for ASEAN but also for ROK. They see climate change not only as a crisis but as well as an opportunity to learn and improve ways of living. They inform the participants that ROK shall implement enhancing capacity on climate change adaptation, enhance green energy, practice green lifestyle, and pursue green international cooperation. They hope that this workshop will create substantive contribution to CC adaptation and food security.

After the welcome remarks, all participants introduced themselves and a group photo session followed thereafter.

Annex 1: Program Agenda

27 APR (Wednesday)	Arrival of Participants	c/o Dr. Han Kyu Lim & NFRDI Staffs
---- DAY 1 ----		
28 APR (Thursday)		
8:30 – 9:00 AM	Registration	Dr. Han Kyu Lim & Ms. Byul Nim Choi NFRDI
9:00 – 9:45:00 AM	OPENING PROGRAM	Dr. Eon Jong Kang Master of Ceremony NFRDI
	Opening Remarks	Dr. Eung-Oh Kim, Director, AMD-NFRDI
	Welcome Addresses	Hon. Mr. Young Man Kim President, NFRDI
		Mr. Hyun-Min Jung Director General Maritime Affairs, Agriculture and Fisheries Bureau Busan Metropolitan City
		Mr. Won Chul Joo Director Bilateral Negotiation & Cooperation Division, MIFAFF
	Introduction of Participants	
	Group Photos (Photo Opportunity)	
9:45 – 10:00 AM	COFFEE BREAK	
	SESSION 1	Chaired by Dr. Qtae Jo ARI-NFRDI
	ASEAN-ROK	Ms. Irma F. Ortiz

10:00 – 10:30 AM	Project Overview	Project Proponent IFAD–BFAR, PHI
10:30 – 11:00 AM	Presentation of ASEAN–ROK Aquaculture Climate Change Seminar – Workshop Output Recommendations (Year1)	Dr. Nelson A. Lopez Chief, IFAD – BFAR Project Leader, PHI
11:00 – 11:30 AM	FAO–RAP Climate Change Program in Aquaculture (Outlook of the Beijing Climate Change & Food Security Conference)	Dr. Miao Weimin Aquaculture Officer, FAO–RAP
11:30 – 12:00 PM	Presentation of The WorldFish Center–CGIAR Aquaculture CC Program	Dr. Heinz Fred Weirowski Sr. Expert, Aquaculture–PPP, The WorldFish Center
12:00 – 1:30 PM	LUNCH BREAK	
	SESSION 2	Chaired by Dr.Nelson A. Lopez Chief, IFAD – BFAR Project Leader, PHI
1:30 – 2:00 PM	Presentation of SEAFDEC – Aquaculture Department Aquaculture CC Program	Dr. Teruo Azuma Deputy Chief, SEAFDEC–Aquaculture Department
2:00 – 2:30 PM	Presentation of NACA Program on Aquaculture CC	Prof. Sena de Silva NACA Director General
2:30 – 3:00 PM	Ocean Climate Change in the Korean Waters	Dr. Young–Sang Suh Director, Fishery and Ocean Information NFRDI
3:00 – 3:30 PM	Potential influence of climate change on aquaculture industry	Dr. Qtae Jo, ARI–NFRDI
3:30 – 3:45 PM	COFFEE BREAK	
3:45 – 6:00 PM	Visit to NFRDI Busan	c/o NFRDI Staffs
6:00 – 6:40 PM	Back to Hotel	

6:40 – 8:40 PM	Welcome Dinner	Hosted by NFRDI/MOMAF
----- DAY 2 -----	SESSION 3	
29 APR (FRIDAY)		Chaired by Dr.Nelson A. Lopez Chief, IFAD – BFAR Project Leader, PHI
9:00 – 9:30 AM	Summary of Institutional Program on Climate Change and Needs Matching	Ms. Aleli G. Maghirang ASEAN–Korea Desk Officer–PHI, DA–PDS
9:30 – 9:45 AM	Procedural Matters on Round Table Discussions (RTD)	Co-Chaired by Drs. Jo & Lopez
9:45 – 10:00 AM	COFFEE BREAK	
10:00 – 12:00 PM	RTD on Regional Networking and Program Direction Setting for Aquaculture Climate Change	Facilitators: NFRDI/ DA–BFAR organizers
12:00 – 2:00 PM	LUNCH BREAK	
2:00 – 3:00 PM	Continuation of RTD/ Workshop Consultation & Presentation of Group Outputs	Facilitators: NFRDI/ DA–BFAR organizers
3:00 – 3:15 PM	COFFEE BREAK	
	SESSION 4	
3:15 – 3:45 PM	Summary of RTD/Wrap-up of Institutional Agreements for Regional Networking	Dr. Eon Jong Kang ARI–NFRDI
4:00 – 4:30 PM	ASEAN Climate Change Program Support on Fisheries/Aquaculture	Dr. Somsak Pipoppinyo Director, Finance, Industries and Infrastructure Directorate, ASEAN Secretariat
4:30 – 4:45 PM	OPEN FORUM	Moderators: Drs. Jo & Lopez

4:45 – 5:00 PM	Closing Remarks	Dr. Woo Jeung Choi Director General, Fundamental Research Department, NFRDI
5:00 – 6:40 PM	FREE TIME	
6:40 – 8:00 PM	Farewell Dinner	Hosted by the Conference Organizers
30 APR (Saturday)	Departure of Participants	c/o NFRDI Secretariat

*******HOME SWEET HOME*******

Annex 2: Lists of participants

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Annex 3: Opening remarks

by Dr. EO Kim, Director General of Aquaculture Research Institute,
NFRDI

Good morning ladies and gentlemen! My name is KIM Eung-oh, the Director of aquaculture management division of NFRDI. From now on, we'd like to open this workshop under the theme of 'Establishment of ASEAN-ROK Network on Climate Change Adaptation'.

Since the chair country suggested this workshop at the 7th ROK-ASEAN economic cooperation meeting in 2009, we are having this meaningful time after the 1st 2010 meeting as a two-year plan.

The first meeting from August 16th to 25th was co-hosted by NFRDI, Republic of Korea and DOF, the Philippines in Busan last year.

In that meeting, about 20 eminent specialists gathered together and drew strategies and action plans on 3 main topics: the potential and actual impacts of climate change on fisheries/ ways to adapt and mitigate to climate change/and the future research sectors.

Today's meeting, the second workshop will be held from today to tomorrow attended by national delegation and distinguished guests from Asia Pacific regions.

In this session, I hope you will formulate an extended and strengthened network on climate change adaptation by expanding its scope to non-participants.

As a host, we will try to make our utmost efforts to draw fruitful results without any inconvenience. Once again, I hope this meeting will be successful. Thank you very much.

Annex 4: Welcome addresses

By Dr. Woo Jeung CHOI on behalf of the President of NFRDI

Honorable distinguished guests from home and abroad!

As the director general of fundamental research department of NFRDI, it is my great honor and privilege to be here today to hold this workshop under the theme of "Establishment of ASEAN-ROK Network on Climate Change Adaptation" here in Busan on behalf of the president of NFRDI.

First of all, I'd like to extend my warm gratitude to ASEAN officials, particularly Dr. Nelson and Ms. Aleli and distinguished participants from each country.

Since 1997 which marks ASEAN's 30th anniversary of its foundation, Korea has participated in the ASEAN+3 mechanism and made its utmost efforts to nurture collaboration with the member countries ranging from politics, security, and economy to society and culture.

In particular, we have maintained close relationships, for example, by holding ASEAN-ROK special summit meeting in Jeju Island in 2009 attended by summits from 10 countries.

Last 13th ASEAN-ROK Summit Meeting held in Vietnam in 2010 paved

the way for Korea and 10 ASEAN countries to strengthen and deepen cooperation between the two sides by upgrading bilateral relationship to the level of 'strategic partnership'.

Ladies and gentlemen,

Today's 2nd ASEAN-ROK workshop will be a cornerstone to respond to the impacts of climate change on aquaculture.

With the establishment of action plans last year, I'm sure in this year as well, ASEAN delegation and officials from 4 international fisheries organizations will have lively discussions and draw meaningful results.

The international community has faced with severe challenges such as food crisis and water shortage driven by climate change as well as natural disaster.

Without global response, we cannot resolve the climate change issue. In this regard, I hope this meeting will make a great contribution to resolve various daunting challenges by introducing strategies and policies for food industry regarding climate change not only independent level but also international one.

According to UN report, it is expected that we will see serious food shortage in 2050 due to soaring population.

We have been highly dependent on agriculture which requires limited spaces and tons of chemicals, but it already reached the limit.

For this reason, aquaculture is becoming a key solution for tackling food crisis as it provides not only high quality of proteins but also the momentum for low carbon green growth.

Lastly, I hope you will make fruitful results through in-depth discussions

and prepare for practical measures on the response to aquaculture industry and climate change.

Thank you for listening.

Annex 5: Welcome address

By Mr. Hyun Min, JUNG of Busan Metropolitan City

Good morning, all participants in Korean-ASEAN climate change adaptation in aquaculture in Busan, 2011!

My name is Hyun Min, JUNG, Director General of Maritime Affairs in fisheries of Busan metropolitan city. I would like to give my special welcome to representatives from international fishery-related organizations of 6 ASEAN countries.

This workshop intends to find how to respond to the impacts of a global climate on fisheries through Korea and ASEAN countries' collaboration. So far, Korea and ASEAN countries have been creating good networks and exchanging information each other.

The proper response to the global climate change is one of the most urgent tasks to solve. In particular, the fisheries are so vulnerable to the climate change in terms of the ecological and socio-economic impacts.

In this respect, this workshop is so significant to share meaningful information and exchange your own positions and prospective each other because ASEAN countries and Korea occupy the significant portion of the fishery products.

I really hope today's workshop will make a great contribution to encourage Korea and ASEAN countries' global climate change adaptation collaboration.

During this workshop, I hope you will have nice and comfortable days in this beautiful oceanic city and make good memories of your own.

Thank you.

Annex 6: Welcome address

By Mr. Won Chul, Joo, Director of Bilateral Negotiation & Cooperation Division, MIFAFF

Good morning ladies and gentlemen!

I'm delighted to see the hosting of ASEAN-ROK consultation meeting for climate change here in the first port city of Busan, and I would like to extend my warm welcome to all the participants of this meeting. My appreciation also goes to those at NFRDI for their efforts preparing this meeting possible.

I hope that today's consultation meeting would serve as a venue for us to raise public awareness about climate change, share the achievements of various climate change-related programs conducted by international organizations and strengthen their network.

We are faced with tremendous challenges of climate change. A report of IPCC says that global warming push about 20 or 30% of animal and plant species on earth to the brink of extinction only 40 years time.

Korea also saw the average temperature rise by about 1.7°C and precipitation by 19% in the past 100 years and the shores of Jeju Island increasingly becomes to have feature subtropical climate.

Such climate change including rising sea temperature is affecting marine ecosystem and fisheries industry to a significant degree. a case in point is an increasing frequency in mass occurrence of jellyfish and the consequential economic loss from it is increasing as well.

We can witness effect of climate change in changing variety of fish caught in coastal area on the Korean peninsula. Cold current fish such as Pollack are declining, whereas warm current fish, such as squid are increasing. Climate change is bringing about a change in fisheries industry which is both positive and negative.

Thus, climate change can be an opportunity as well as a crisis depending on how we respond to it.

Korea proposed 'Low Carbon and Green Growth' as a new national vision to cope with climate change and the MIFAFF on its part, established 'Strategy for implementing low carbon and green growth' in this Feb. and is now continuously pushing 50 related projects.

Especially during this year, core tasks they are particularly relevant in today's context were selected through 'choice and concentration' and thereby '2011 plan to implement core tasks for low carbon and green growth was established and they are as follows.

First, we aim to build up our capacity to tackle climate change. second, we will enhance green energy efficiency. Third, we will strive to disseminate practicing of green life style. Forth, we will manage natural

resources in sustainable way and Firth but last, we will promote green international cooperation.

Nobody on our earth can remain untouched by environmental crisis and environmental issues cannot be resolved by any single nation. Finding a solution is our common duty, and global partnership is very important in tackling climate change.

Representative of ASEAN countries and international organizations and ladies and gentlemen!

It is my hope that today's workshop would make substantive contribution to creating global partnership to deal with climate change and I also hope that we will be able to see a specific and effective discussion related to the agenda take place at this workshop.

I hope you have a pleasant and meaningful time during your stay this wonderful city of Busan.

Thank you very much.