

#### COMMISSION THIRTEENTH REGULAR SESSION

Denarau Island, Fiji 5 – 9 December, 2016

#### UPDATE ON WPEA PROJECT

WCPFC13-2016-36 25 November 2016

#### Prepared by Indonesia, Philippines and Vietnam and the Secretariat

#### I. BACKGROUND

#### Indonesia and Philippines Data Collection Project (IPDCP)

- 1. In early 2000, while annual catches of key tuna species in the Philippines and the Pacific Ocean waters of Indonesia were estimated in a range of 20-30% of the total catch of WCPO, little or no information was available for WCPO tuna stock assessment. The lack of accurate catch statistics, effort data, and species composition and size composition data for the Philippines and Indonesia has been highlighted at meetings of the Standing Committee on Tuna and Billfish for many years and responsible for much of the uncertainty in the MULTIFAN–CL stock assessments for bigeye and yellowfin tuna.
- 2. After years of effort, strong support has also been expressed by agencies of Indonesia and Philippines. Since then, the data collection project started to take a concrete form through several meetings, working with IOTC, CSIRO, ACIAR, and Japan-OFCF. Throughout the Preparatory Conference period, the discussion evolved and fund raising was based on voluntary contributions from the Preparatory Conference participating countries. The activities of the proposed project include, for each country,
  - a) a review of the tuna fisheries and the current monitoring systems;
  - b) the compilation of historical catch and effort data;
  - c) a workshop to formulate recommendations for the improvement of the monitoring system and to plan the sampling programmes;
  - d) the establishment of a port sampling programme;
  - e) the establishment of an observer programme;
  - f) the analysis of data collected and compiled during the project; and
  - g) a workshop to review the achievements of the project and to plan for future monitoring.
- 3. The budget for the activities at that time was about USD 184,000 for the Philippines and USD 229,000 for Indonesia, for a total cost of USD 413,000. This project was called IPDCP.

West Pacific East Asia Oceanic Fisheries Management Project (WPEA-OFM)

- 4. Funding support was the greatest issue for the continuity of the IPDCP project. The Secretariat advised the third IPDCP Steering Committee that the Global Environment Facility (GEF) had expressed interest in funding a project in Indonesia, Philippines and Vietnam. The objectives of the project were (i) to establish or improve the collection of tuna fishery data, and (ii) to promote good governance with regard to the management of tuna fisheries. The Steering Committee recommended that the WCPFC Executive Director continue to liaise with GEF, Indonesia, Philippines and Vietnam to develop a data collection and governance project for those countries. The Steering Committee recommended that, noting that GEF funding would not be available for another 18–24 months, CCMs continue to be invited to contribute to implement port sampling in Indonesia and Philippines, and that the Commission consider funding data collection in this area through its core budget.
- 5. Project Implementation Form, National Project Preparation Reports and Project Document were coordinated and prepared by the Secretariat, working with each country's focal point. The Secretariat was advised that its medium size project was accepted by the GEF in May 2009.

#### *Improvements*

- 6. Since the commencement of the IPDCP data collection project, starting in Philippines in 2005 and in Indonesia in 2007, there have been improvements in 2011 assessments of the WCPO tuna stocks by reducing uncertainty of input data and information. Especially, the WPEA-OFM project has greatly enhanced the quality of Indonesian and Philippine fishery data that are applied to regional tuna stock assessments conducted for the WCPFC. During the project period, the following improvements have been noted:
  - More accurate estimates of total annual tuna catch by species
  - More accurate estimates of species-specific catches by major fishing gear types
  - The first size composition data from Indonesian tuna fisheries in more than two decades
  - The establishment of operational-level data collection programmes (logsheets) for the industrial tuna fisheries
  - The initiation of an observer programme in Philippines

These enhanced data were used for the first time in the skipjack, yellowfin and bigeye stock assessments conducted in 2011 by SPC.

- 7. Throughout the WPEA-OFM project period, similar progress in data collection occurred in Viet Nam, and their data were incorporated into regional stock assessments. Tuna catch data were originally collected in three provinces in Viet Nam, which was expanded to additional six provinces in 2013.
- 8. The WPEA-OFM was successfully completed in March 2013 and an independent evaluation report is available at:

 $\frac{http://www.wcpfc.int/system/files/SC9-GN-IP-03-\%5BWPEA-OFM-Independent-Evaluation-Report\%5D.pdf$ 

## Sustainable Management of Highly Migratory Fish Stocks in the West Pacific and East Asian Seas (WPEA-SM)

9. UNDP and WCPFC Secretariat prepared a new full size project along with the following process.

#### Project Framework Document (PFD)

- 1) Project title: Reducing Pollution and Rebuilding Degraded Marine Resources in the East Asian Seas through Implementation of Intergovernmental Agreements and Catalyzed Investments
- 2) The UNDP started preparing a parent program PFD from mid-2011, which was submitted to the Global Environment Facility (GEF) on 29 March 2012, and a revision submitted on 12 April

- 2012. The PFD was endorsed by the GEF Secretariat in June 2012.
- 3) The list of projects under the PFD include:
  - a) YS LME Project: Implementation of the Yellow Sea Large Marine Ecosystem Strategic Action Program for Adaptive Management (USD 7,562,430)
  - b) WPEA: Sustainable Management of Highly Migratory Fish Stocks in the West Pacific and East Asian Seas (USD 2,293,578)
  - c) PEMSEA<sup>1</sup>: Scaling up the Implementation of the Sustainable Development Strategy for the Seas of East Asia (USD 10,143,992)
- 4) Participating countries: Cambodia, China, Indonesia, Lao PDR, Philippines, Thailand, Timor Leste, Vietnam

### Project Identification Form (PIF) for the WPEA Project

- 1) Project title: Sustainable Management of Highly Migratory Fish Stocks in the West Pacific and East Asian Seas (WPEA-SM)
- 2) UNDP and WCPFC started developing a new WPEA project PIF since from 2012 and the final PIF was submitted to GEF on 5 April 2013. The PIF was approved by the GEF Council on 1 May 2013.
- 3) Total project cost is USD 2,233,578, a 3-year full size project, with the three participating countries (Indonesia, Philippines, Vietnam).
- 4) PIF includes i) Indicative Project Framework, ii) Indicative co-financing, iii) Project Preparation Grant, iv) Project Justification, and v) Approval/Endorsement by GEF Focal Points of each country.

#### WPEA-SM Project Document

- 1) Drs Tony Lewis and Anna Tengberg developed the Project Document in consultation with UNDP, WCPFC Secretariat and the three participating countries from mid-2013.
- 2) After several reviews and revisions, the Project Document was endorsed by the GEF Secretariat on 12 May 2014, the final version was submitted to the GEF Council on 17 September 2014, and received their approval on 30 September 2014.

#### Commencement of WPEA-SM Project

- 1) Project Appraisal Committee Meeting
  - ➤ The *Project Appraisal Committee*, met in Manila on 28 May 2014, agreed that all three project partner countries (Indonesia, Philippines and Vietnam) accepted WCPFC as the Project Implementing Partner. They also agreed that the Science Manager of the Commission should continue managing the WPEA-SM Project.
- 2) A Project Cooperation Agreement between UNDP and WCPFC was made on 14 October 2014, and the WPEA-SM officially commenced on 28 October 2014.
- 3) The Project Inception Workshop was held in Da Nang, Viet Nam, 4-5 November 2014, and the Inception Workshop Report was adopted and submitted to the UNDP.

#### II. SUMMARY OF KEY WPEA ACTIVITIES IN 2016

10. The WPEA-SM Project has three components and several expected outcomes under each component as shown below.

Component 1 Regional governance for building regional and national adaptive capacity of IDN, PHL and VNM in the management of HMFS

<sup>&</sup>lt;sup>1</sup> PEMSEA: Partnerships in Environmental Management for the Seas of East Asia, Manila, Philippines (http://www.pemsea.org),

Expected Outcomes	<ol> <li>Improved regional mechanisms for monitoring and assessment of HMFS</li> <li>Enhanced capacity of technical staff, policy and decision makers to integrate climate change impacts on HMS into management regimes</li> </ol>
Component 2	Implementation of policy, institutional and fishery management reform
Expected Outcomes	<ol> <li>Enhanced compliance of existing legal instruments at national, regional and international levels</li> <li>Adoption of market-based approaches to sustainable harvest of tunas</li> <li>Reduced uncertainty in stock assessment and improved understanding of associated ecosystems and their biodiversity</li> <li>Ecosystem Approach to Fisheries Management (EAFM) guiding sustainable harvest of the oceanic tuna stock and reduced by-catch</li> </ol>
Component 3	Knowledge sharing on highly migratory fish stocks
Expected	1. Regional knowledge platform established on Pacific Ocean Warm Pool LME and
Outcomes	EAS LME's shared tuna stocks and associated ecosystems

11. The project specified targets to be achieved during the project period which are listed in the *Project Results Framework* in the Project Document. To reach the targets under each component, key activities identified are as follows:

#### Component 1

- a) Capacity building of the participating countries in science;
- b) Sub-regional collaboration and governance in tuna fisheries, including establishment of MCS programmes;
- c) Estimation of annual tuna catches by species and by gear;
- d) Development of general guidelines on adaptive management and monitoring of highly migratory stocks to address climate change;

#### Component 2

- a) Review of national fisheries legislation in compliance with WCPFC requirements;
- b) Development of harvest strategy elements at national level;
- c) Tuna supply chain analysis;
- d) Establishment of appropriate certification system;
- e) Tuna data collection at landing sites and data review;
- f) Training and limited implementation of observer program me;
- g) Trial application of ecosystem approach to fisheries managemet.

#### Component 3

- a) Knowledge sharing by participating in the biennial GEF-IW Learn Conference and PEMSEA East Asian Seas Congress
- 12. Annually, around 15-20 individual activities are planned and implemented to meet the targets of the project. Despite the delay in implementing some activities due to protracted domestic/internal approval processes most activities were successfully implemented in 2015 and 2016. The status and progress of all activities planned for 2015 and 2016 are summarized in Attachment A.
- 13. In the WPEA project, most activities are related with capacity-building, consultancies and review workshops of the consultancy outputs at each country. Once a year, the project coordinators convene a three-country workshop to promote cooperation and collaboration at a sub-regional level. In 2015, the theme of the Sub-regional Workshop was stock assessments at national and sub-regional level, and Dr John Hampton (SPC) was invited as a resource person. In 2016, the three-country workshop was also convened prior to the Project Board Meeting in Cebu, 24-26 October, with Ms Sylvie Giraud (CLS) from France and Dr Osamu Sakai (National Research Institute of Far Seas Fisheries) from Japan as meeting resources. The workshop theme was better understanding in the impacts of climate change on tuna

fisheries and the structure and functioning of a harvest strategy framework. The prime goal of the workshop was to enhance the country's understanding in each theme, to share the progress of each country on each topic, and to address country's issues and problems with the invited experts.

- 14. The Third Project Board Meeting was convened in Cebu, Philippines on and 29 October, 2016. The meeting was represented by delegates from the three participating countries, UNDP-Regional Office, UNDP-Philippines, PEMSEA Secretariat and WCPFC Secretariat. The Ministry of Foreign Affairs and Trade of New Zealand attended the meeting as an observer. The meeting covered i) finance and administration, ii) review of the second year project activities per country, and iii) the work plan and budget for 2017. Each country tabled update reports on the detailed progress and outputs of the project activities in 2016, which are annexed in Attachment B, C and D.
- 15. In consultation with each participating country, the WCPFC Secretariat developed over 20 project activities for each country with an aim to complete the Project by the end of 2017. The Project Board endorsed the 2017 annual work plan and a total budget of USD 1,047,455. Detailed activities and budget allocation are in Attachment E.
- 16. The WPEA-SM project is anticipating a mid-term evaluation in early 2017. Each country expressed their wishes to complete the project by the end of 2017 but it is likely that this project may be extended for another six month into 2018.

## Review of the progress of WPEA activities during 2015-2016

	IDN-2015	IDN-2016	IDN	PHL-2015	PHL-2016	PHL	VNM-2015	VNM-2016	VNM
1.1	01. Logbook awareness	01-02. Logbook	Done						
	workshop	awareness workshop							
1.1	02. Capacity building in science – participate in SC11	03. Capacity building in science – participate in SC12	Done	01. Capacity building in science – participate in SC11	03. Capacity building in science – participate in SC12	Done	2. Capacity building in science – participate in SC11	03. Capacity building in science – participate in SC12 and WCPFC13	Done
1.1	03. WPEA project coordination and implementation at national level	04. WPEA project coordination and implementation at national level	Done	03. WPEA project coordination and implementation at national level	03. WPEA project coordination and implementation at national level	Done	02. WPEA project coordination and implementation at national level	02. WPEA project coordination and implementation at national level	Done
1.1							4. Reconstruction of tuna catch histories prior to 2000	11. Review on the reconstruction of tuna catch history prior to 2000	Done
1.1	04. Annual tuna catch Estimates workshop	05. Annual tuna catch Estimates workshop	Done	02. Annual tuna catch Estimates workshop	02. Annual tuna catch Estimates workshop	Done	3. Annual tuna catch Estimates workshop	03. Annual tuna catch Estimates workshop	Done
1.1		15. Participation in SPC's Tuna Data Workshop	Deferre d		15. Participation in SPC's Tuna Data Workshop	Done	9. Participation in SPC's Tuna Data Workshop	12. Participation in SPC's Tuna Data Workshop	Done
1.1				12. MCS and VMS programs established	04. MCS and VMS programs established	On- going			
1.2	05. Prior study on climate change (Consultancy)	07. Prior study on climate change (Consultancy)	Done	04. Prior study on climate change (Consultancy)	05. Prior study on climate change (Consultancy)	Done	5. Prior study on climate change (Consultancy)	07. Prior study on climate change (Consultancy)	On- going
1.2	·	16. Development of two guidelines on climate change	On- going		06. Development of two guidelines on climate change	On- going		08. Development of two guidelines on climate change	On- going
1.2	06. Review workshop on climate change consultancy	08. Review workshop on climate change consultancy	Done	9. Review workshop on climate change consultancy	18. Review workshop on climate change consultancy	Done	8. Review workshop on climate change and reference points consultancy		On- going
1.2									
1.3									
2.1				5. Update of Operational Guide for Filipino Fishermen	07. Update of Operational Guide for Filipino Fishermen	Done		06. Fishermen's Guide  - Translation of  WCPFC CMMs	Done
2.1	07. National compliance – submission of Annual Report Part 1 and 2		Done				6. National compliance – submission of Annual Report Part 1 and 2	05. National compliance – submission of Annual Report Part 1 and 2	Done
2.1					09. Consultancy – review of national legislation to comply	Done			

		T			with WCPFC				
2.1					requirements	D			
2.1					10. Workshop on	Done			
					harvest strategy				
					framework				
2.2	00 C 1 D .	10 C 1 P:	D	o C t D:	12 C 1 P :	D.	10 C 1 D 1	12 C 1 D:	0
2.2	08. Consultancy – Prior	10. Consultancy – Prior	Done	8. Consultancy – Prior	12. Consultancy – Prior	Done	10. Consultancy – Prior	13. Consultancy – Prior	On-
	study on tuna supply	study on tuna supply		study on tuna supply	study on tuna supply		study on tuna supply	study on tuna supply	going
	chain analysis	chain analysis		chain analysis	chain analysis		chain analysis	chain analysis	
	09. Consultancy –	11. Consultancy –	Done	7. Consultancy –	11. Consultancy –	Done	11. Consultancy –	14. Consultancy –	On-
2.2	Review and	Review and		Review and	Review and		Review and	Review and	going
	establishment of	establishment of		establishment of	establishment of		establishment of	establishment of	
	certification scheme	certification scheme		certification scheme	certification scheme		certification scheme	certification scheme	
2.2	06. Review workshop –	06. Review workshop –	Done		18. Review workshop –	Done	12. Review workshop –	15. Review workshop –	On-
	prior studies on tuna	prior studies on tuna			prior studies on tuna		prior studies on tuna	prior studies on tuna	going
	supply chain analysis	supply chain analysis			supply chain analysis		supply chain analysis	supply chain analysis	
	and certification	and certification			and certification		and certification	and certification	
	scheme	scheme			scheme		scheme	scheme	
2.3				14. Training workshop		Done			
2.2	10 D: 4 L 4	00 B : 1	0	on E-logbook			7.D: . 1 . 4		
2.3	10. Prior study on the	09. Prior study on the	On-				7. Prior study on the		On-
	review of harvest	review of harvest	going				review of harvest		going
	strategy framework	strategy framework					strategy framework	20 777 1 1	
	11. Workshop on the		On-	6. Workshop on the		Done	8. Workshop on the	20. Workshop on the	On-
2.3	development of a		going	development of a			development of a	development of a	going
	harvest strategy			harvest strategy			harvest strategy	harvest strategy	
	framework			framework			framework	framework	_
2.3								09. Prior study on the	On-
								development of a	going
								harvest strategy	
								framework	
	12. National Tuna Data	12. National Tuna Data	Done	11. National Tuna Data	14. National Tuna Data	Done	3. National Tuna Data	03. National Tuna Data	Done
2.3	Review Workshop	Review Workshop		Review Workshop	Review Workshop		Review Workshop	Review Workshop	
2.3	13. Sub-regional	13. Sub-regional WS on	Done	10. Sub-regional	08. Sub-regional WS on	Done	13. Sub-regional	10. Sub-regional WS	Done
	workshop on stock	the development of a	Done	workshop on stock	the development of a	Done	workshop on stock	on the development of	Done
2.3	assessment	harvest strategy		assessment	harvest strategy		assessment	a harvest strategy	
	ussessment	framework and the		assessment	framework and the		assessment	framework and the	
		impact of climate			impact of climate			impact of climate	
		changes on tuna			changes on tuna			changes on tuna	
		fisheries			fisheries			fisheries	
	14. Data collection	14. Data collection	On-	13. Data collection	16. Data collection	On-	14. Data collection	16. Data collection	On-
	from port sampling,	from port sampling,	going	from port sampling,	from port sampling,	going	from port sampling and	from port sampling and	going
2.3	field supervision and	field supervision and	Some	field supervision and	field supervision and	Some	training; Field	training	going
	training	training		training	training		supervision for the	a anning	
	umming	uummg		uummg	auming		review of port		
							sampling protocols and		
							monitoring of		
							enumerators' activities		
2.3							chamerators activities	17. Field supervision –	Done
4.3		l		l				17.11clu supervision –	Dolle

2.3								review of port sampling protocols and monitoring of enumerators' activities  18. Field trip to Vung Tau province to solve problems in port	Withdra wn
								sampling protocols and data structure (issues resolved from Activity 17)	
2.4		06. Training of observers and implementation of observer programme	On- going					04. Training of observers and implementation of observer programme	On- going
2.4					17. Prior study on the application of EAFM to tuna fisheries	Done		19. Prior study on the application of EAFM to tuna fisheries; publication of a Fish Book in coastal ecosystem	On- going
2.4				15. Review workshop on a prior study related to the application of EAFM to tuna fisheries	13. National WS on sustainable fishing practices – orientation level for EAFM focusing on education at provincial level	On- going		20. Prior study on EAFM; Review workshop on a prior study related to the application of EAFM to tuna fisheries	On- going
2.4					18. Review workshop on a prior study on EAFM	Done			
2.4					19. Pilot scale application of EAFM to tuna fisheries	On- going			
3.1	15. Database development						15. website		
3.1	16. Participation in GEF-IW Learn Conference	17. Participation in GEF-IW Learn Conference	Done	16. Participation in GEF-IW Learn Conference and PEMSEA's EAS CONGRESS	20. Participation in GEF-IW Learn Conference	Done	16. Participation in PEMSEA's EAS Congress	21. Participation in GEF-IW Learn Conference	Done

## **Attachment B**

Project Title: Sustainable Management of Highly Migratory Fish Stocks in the West Pacific East Asian Seas
West Pacific East Asia Oceanic Fisheries Management Project (WPEA OFM)

Review of the WPEA Annual Work Plan, 2nd year

# INDONESIA (DFRM and CFRD)

Presented in WS Project Board Meeting CEBU 28 -29 October 2016







# Background

- Regional governance for building regional and national adaptive capacity of Indonesia,
   Philippines and Vietnam in the management of highly migratory fish stocks
- Implementation of policy, institutional and fishery management reforms.
- Knowledge sharing on highly migratory fish stocks

# **Status of Project Activities (DGCF)**

Activity	Date	Output	Budget	Status
Catch Estimation Workshop  Harvest strategy WS; 3 WS. 1st and 2nd Technical WS, 8th Management Objective WS	15 - 17 June 2016 April 2016, Nov 2016	WS was held on 15 – 17 June 2016 National Report of Annual Tuna Catch Estimates Workshop  Development of HS particularly for 713,714,715 (AW)	(USD) 12027 (2nd WPEA) 15,000 (GOI DGCF)	Completed Reported  Completed
Tuna supply chain analysis / traceability, including preparatory meetings and Tuna sustainability/certificati on, including preparatory meetings	7 – 8 June 2016	Consultancy was held on 7 – 8 June 2016 Paper: 1. Indonesia Tuna Supply Chain Review 2. Prior Study on Sustainability/Certification	6368 (2nd WPEA)	Completed Report Produced

# **Status of Project Activities (DGCF)**

Activity	Date	Output	Budget	Status
			USD	
Logbook Awareness WS in	16 – 18 Maret	WS was held on 16 March	2724	Completed
Bitung	2016	2016 and attended by 37	(2ndWPEA)	reported
		participants		
		workshop from province		
		agencies,		
		district agencies, fishing port		
		officer,		
		captain, companies		
Logbook Awareness WS in	14 - 16 Maret	WS was held on 14 March	5538	Completed
Gorontalo	2016	2016	(2nd WPEA)	Reported
		and attended by 39		
		participants		
		workshop from province		
		agencies,		
		district agencies, fishing port		
		officer,		
		captain, companies		

# **Status of Project Activities (DGCF)**

Activity	Date	Output	Budget	Status
			USD	
review Workshop on climate	20 – 22 June	WS was held on 20 – 22 June	11136	Completed
change, supply chain	2016	2016	(2nd WPEA)	Report
analysisand		Identification of the fisheries		Produced
sustainability/certification		status and action needed for		
		supply chain analysis and		
		sustainability/certification		
Participating in SC 2016	Aug 2016	Capacity building understanding	1339	Report
(novia and Saut		WCPFC SC result	(2nd WPEA)	produced
Tampubolon)				

# **Status of Project Activities (Port Sampling Program-CFRD)**

Activity title	Date	Output	Budget (US \$)	Status
port sampling in Bitung, Sodohoa, Kendari, Majene Gorontalo  NTC and Staff	Jan – Dec 2016  Jan-Dec 2016	<ol> <li>Data port         sampling         produced</li> <li>Enumerators         Salary paid</li> <li>National-level</li> <li>2016 WPEA</li> </ol>	93196 (2ndWPEA) 7200 (2nd WPEA)	Completed  Nov-Dec – ongoing (include Gorontalo)  Completed
		project activities were well coordinated		
Data Audit workshop	Bitung 10-11 March 2016	Refreshment of Sampling Protocol conformation Elimination of data anomalies	9600 (2nd WPEA)	Completed

# **Status of Project Activities (Supervision-CFRD)**

Activity title	Date	Output	Budget (US \$)	Status
Supervision and data validation on port	Januari 2016 (sorong)	Port sampling activities supervised and Data	1.260 ( <b>Inkind</b> )	completed
sampling in Bitung, Sodohoa Kendari, Sorong, Majene	July 2016 (Gorontalo, Bitung, Sorong majene)	validated  Recruit and train new enumerators in Gorontalo	3,524 (WPEA)	Completed
	November 2016 & Februari 2017 (Gorontalo, Bitung, Sorong, Kendari, Majene)	Port sampling activities supervised and Data validated Equipment	14,344 (WPEA)	On going
Supervision (Bitung, NTT, Bali) → Anung widodo	July, Set, Oct 2016	Port sampling activities of MDPI and SFP	5.000 (Inkind)	Report Produced

# **Status of Project Activities (Regional Observer Program)**

Activity	Date	Output	Budget (US \$)	Status
Authorization Regional Observer program Indonesia	2-3 May 2016	Authorize Indonesian ROP	2,292 (WPEA +WCPFC+ Inkind)	Report produced Completed
Indonesian Observer Program training	Februari 2017	Eighteen (18) trained observers that understand the work of Observer under WCPFC standard	19,585 (2nd WPEA)	On going 2017

# **Status of Project Activities**

Activity	Date	Output	Budget (US \$)	Status
Preparetory work for HS (2 times) and CC (2 times) WS	Oct 2016	Prelim Data analysis	1500 Inkind (CFRD+ 2nd WPEA)	Report Produced
Participating in Three Country WS Philippine (Fayakun, Lilis, Wijopriono, Saut Tampubolon)	23-27 Oct 2016	Unsderstanding the concept of CC & HS	12,000 2nd WPEA	ongoing
Training of HS in Hobart Australia Lilis, Erna, Novia, Putu	July 2016	Understanding the concept of HS and MSE	++12,500 GOI/ACIAR/M DPI	WS report Produce
Monitoring of research institute for Oceanic Fisheries Bitung (RIOF)	Januari-December	Maintenance office and facility of RIOF.	10.000 Inkind (CFRD)	completed

# **Status of Project Activities (Technical HS workshop)**

Activity	Date	Output	Budget (US \$)	Status
1 <sup>st</sup> technical harvest strategy workshop	April 2016	Specific Analysis such as LB SPR to Skipjack FMA 713-717 report produced Workshops Report produced Technical training and consultancy report produced	6,500 (2nd WPEA)	Report produced Completed
2 <sup>nd</sup> Harvest Strategy WS	November 2016	Standardized CPUE, selectivity, Framework Model.	4,000 (2nd WPEA)	On going

# **Status of Project Activities (Climate Change)**

Activity	Date	Output	Budget (US \$)	Status
Prior study to Climate Change	March 2016	National expert: Dr Wijopriono Report of prior study on climate change. Presentation of the consultancy outcomes at the CC Workshop	2,500 (2nd WPEA)	Report produced Completed
Development of two guidelines to Cope CC	February 2017	Two Guidelines of adaptive manegemnt to cope with CC	5000 (2nd WPEA)	On going
Worshop on on CC	March 2017	The two guidelines used for capacity building of national technical fishery staff, policy and decision maker	10000 (2nd WPEA)	On Going

# Strengthening Tuna fisheries management: Harvest Strategy Development

- 1. Continuation from WPEA 1st
- 2. Series of Workshop, Public and expert Consultation
- 3. Convince Minister and Binding in legal Instrumen (Regulation / Decree)

Lesson learned: Follow-Up, Commitment, Expertise, Capacity, Relatively similar person handle the Issue.





### MENTERI KELAUTAN DAN PERIKANAN REPUBLIK INDONESIA NOMOR 107/KEPMEN-KP/2015

#### TENTANG

RENCANA PENGELOLAAN PERIKANAN TUNA, CAKALANG DAN TONGKOL

DENGAN RAHMAT TUHAN YANG MAHA ESA MENTERI KELAUTAN DAN PERIKANAN REPUBLIK INDONESIA.

Ministerial Regulation No 107/KEPMEN-KP/2015

Fisheries Management Plan: Tuna, Skipjack and Neritic Tuna

NPOA-NTMP

1.2.2.1. Objective 1 Point 3 (Harvest Strategy)

## And

1.2.2.2 Objective 2 Point 4
Meeting among Scientist, Manager and
Stakeholder

# MANTAINING and IMPROVING DATA COLLECTION Port Sampling 2015-2016

## Sampling Sites:

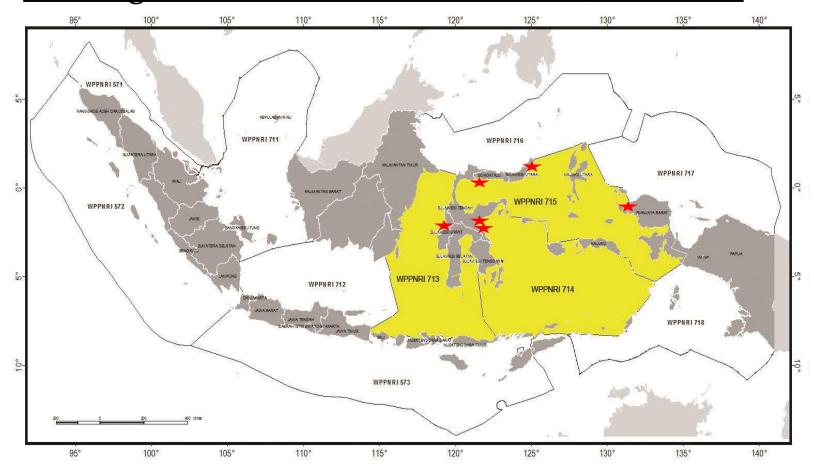
- Bitung 5 landing sites (BMU, BMB, Nutrindo, Sinar purefoods, Fishing port (12 Enumerators)
- Kendari ( PPS Kendari 5 enumerators and Sodohoa 3 enumerators)
- Sorong (3 enumerators)
- Majene (2 enumerators)
- Gorontalo (4 enumerators)







## Landing sites for tuna in the FMAs 713, 714 & 715



## **Main landing sites**

#### **WPPNRI 713**

Mamuju

Bone

Maumere

**Majene** (WPEA: 2014 -)

## **WPPNRI 714**

**Kendari** (WPEA: 2010 - )

(ACIAR: 2013 - 2017

Sodohoa (WPEA: 2010 - )

Ambon Tual

Larantuka

## **WPPNRI 715**

Bitung (WPEA: 2010)

**Ternate** 

**Sorong** (WPEA: 2012 - )

(ACIAR: 20...)

**Fak Fak** 

**Gorontalo (Aug 2016)** 

## SAMPLING LOCATIONS AND ENUMERATORS

LOCATION	SAMPLING SITE	GEAR	TARGET OF CATCH	
BITUNG (12	PT. Aneka Loka	TLL	YFT, BET	
Enumerators)	PT. Bintang Mandiri Bersaudara	PS	SKJ, YFT, BET	
	PT. Bitung Mina Utama	TLL	YFT, BET	
	PPS Bitung	TLL, PS, PL, HL/TR	YFT, BET, SKJ	
	PT. Nutrindo Fresh food Int'l	HL, TLL	YFT, BET	
	PT. Perikanan HL	HL	YFT, BET	
	PT. Sinar Purefood	PS	SKJ, YFT, BET	
KENDARI (8 Enumerators)	PPS KEndari	PS, PL	SKJ, YFT, BET	
	Sodohoa	HL/TR	SKJ, YFT, BET	
SORONG (3 Enumerators)	PT Citra Raja Ampat	PL	SKJ, YFT, BET	
MAJENE (2 Enum's)	PT OBI	HL	YFT, BET	
GORONTALO (4	Kota Gorontalo	HL	YFT, BET	
Enum's)	PPN Kwandang	PS, TR	SKJ, YFT, BET, FRI	

# PORT SAMPLING AUDIT



Review of progress on recommendations from the 3<sup>rd</sup> WPEA-Indo Port sampling WS

Review of Database System, use at P4KSI/RCFMC and dissemination to WCPFC

Visit Port sampling Site

Summary of data collected Problems faced/Staffing issues

Changes in fleet and onshore activities in past year Other information.

# ANNUAL CATCH ESTIMATE

- May June annually
- Peter William, DGCF, CFRD, Association
- Produce annual catch estimate by gear by species
- Annuall report Part 1

# Harvest Strategy Development Process in Indonesia

Case study: Tuna fisheries in FMAs 713, 714 and 715 (archipelagic waters)



KEPUTUSAN MENTERI KELAUTAN DAN PERIKANAN REPUBLIK INDONESIA NOMOR 107/KEPMEN-KP/2015

TENTANG

RENCANA PENGELOLAAN PERIKANAN TUNA, CAKALANG DAN TONGKOL

DENGAN RAHMAT TUHAN YANG MAHA ESA MENTERI KELAUTAN DAN PERIKANAN REPUBLIK INDONESIA



Mandate to develop
Harvest Strategy
Case study: Tuna fisheries in
FMAs 713, 714 & 715

## Led by:

- DGCF, CFRD AMFRD, Supported by:
- WCPFC, MDPI, ACIAR, IPNLF

## Experts:

CSIRO experts

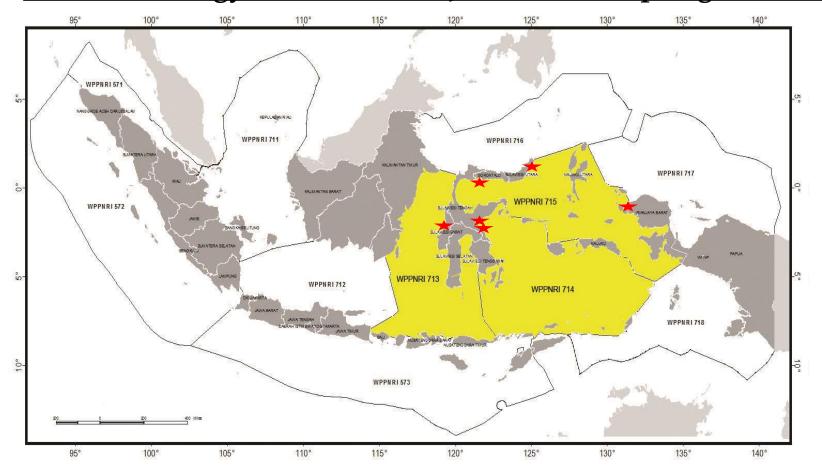




- Stakeholder for Management WS by DGFC
- Technical workshop by CFRD AMFRD



## Harvest Strategy of YFT and SKJ within Archipelagic Water



- 1. Not Convention area of any RFMOs (Sovereignity of Indonesia)
- 2. Aproximately 40 % of Total annual catch of Tuna was taken from this area
- Management measures compatible with RFMOs (WCPFC and IOTC)

# **Data Sets for Potential Use in HS Development**

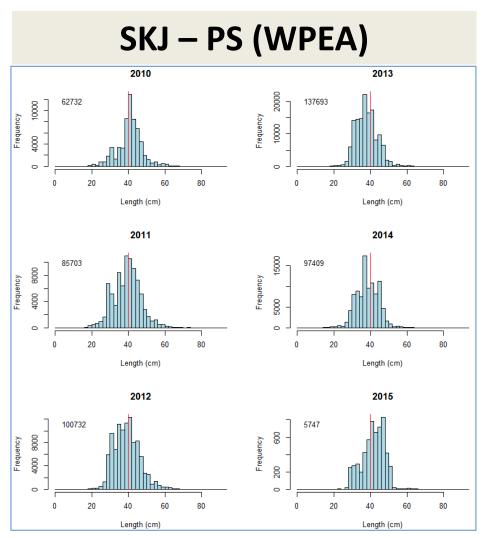
Data series name	Sampling period	Sampling frequency	FMA coverage	% landing/gear coverage	Source of effort/catch data	Relative abundance?	Size indices?	On going?	Comments
RCFMC-WCPFC WPEA	2010 →	Daily	713, 714, 715, 716 & 717	30% of # vessels landed. PL,PS,SHL,TLH,TR,LHL,LL	effort (fishing days, hooks), total catch volume per port- sampled vessel	√, SKP, YFT, BET, ALB(Bitung)	٧	٧	Best series in terms of time, area, gear coverage
ACIAR / CSIRO / RCMFC	Oct 2013 - Dec 2015	Daily	714, 715	20% of # vessels landed. Mainly HL and TL, but also PL, PS at 4 ports	Number of fishing days, catch per trip recorded by enumerator		٧	Data collection at Kendari is still on- going under CFRD	Would be considerable benefit in continuing coverage at Sorong.
BPPL / RIMF	2011, 2013,	Daily, sometimes weekly	714, 716	PL,PS,HL,TL	No effort data		٧		What are we losing if ACIAR monitoring discontinues: e.g. FAD fishing information.
SDI - logbook	2012 - 2014	Per trip	713, 714, 715	LL, PS, TR	No effort data		٧		Provided by the skipper as part of the requirements from the port authority. Minimalist info but generally collected for all vessels in major ports. Is likely the data presented on the port authority wedsite.
RITF observer trips	2002		714	iii	Number of hooks available				
<b>АР</b> 2НІ	2010 - 2014 <del>→</del>	Monthly aggregate	714, 715, 716	HL, PL	No effort data			٧	No length data and they use GT as effort (Ibu Titta moved). Only send summarised data (monthly). Not clear whether Co. may have more detailed effort/catch data
SFP	2015	Not everyday??	714	HL	No effort data		٧		Sustainable Fishery Partnership. Ibu Gaytri; Planning for 5 year data collection.
MDPI	2012 →	Daily	713, 714, 715	HL,PL	Number of fishing days & catch (not clear)	√, YFT, SKP,?BET?	٧	٧	Need some clarifications for information data table that we don't understand
WWF	2006 →	Daily	714	HL <5GT, GN	Number of fishing days (no available for Wakatobi)		٧	٧	no length and effort data in Wakatobi sampling site.
PSB	1978-1994		714	LL, 1 fishing company	Number of hooks available & catch per set (# fish)				One company, historical, Co. no longer exists. May be a more recent update of data into the 2000's.
Logbook Bitung (RCFMC)	2011 - 2013		714, 715	PS					Currently lead by Pak Dutto. Collected from the ports by Pak Dutto. Coleected by PPS-Bitung PA.
	2002 →		713, 714, 715						
SDI - statistics/catch estimate WS				all gears	Estimated total catch for each FMA	x		٧	This is the catch estimate ws data

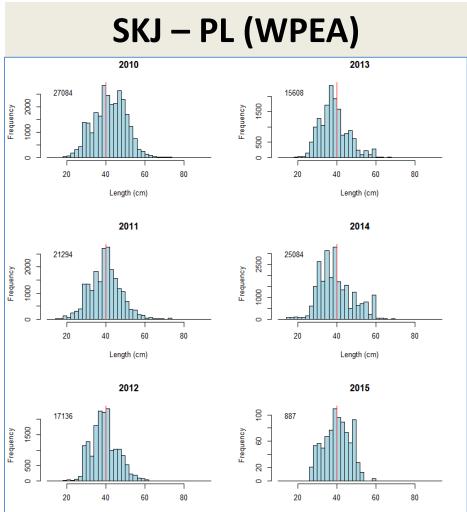
Green = detailed analysis;

Orange = further investigation/clarification of data definitions/sources.

Red = not suitable for HS input series due to lack of time series or sufficient coverage

# **Length Frequency Distribution (Size Data)**

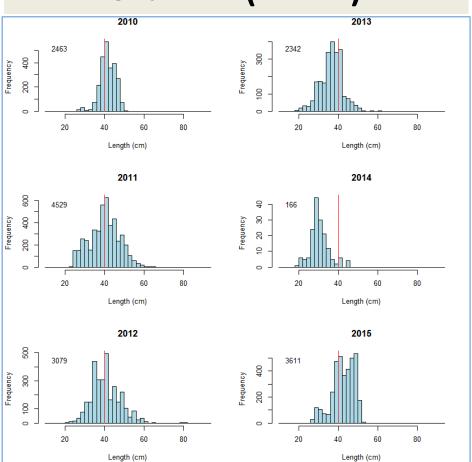




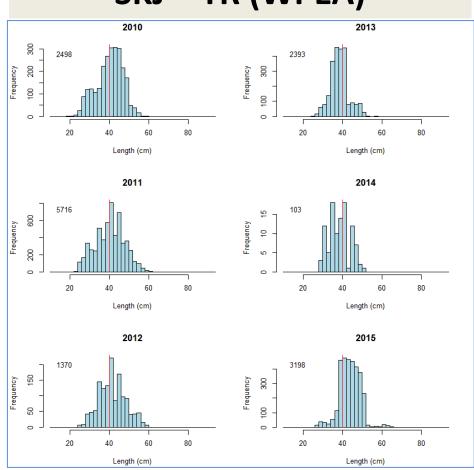
2010 - 2014 : SKJ < 40 cmFL higher2015 : SKJ > 40 cmFL higher 2010 : SKJ > 40 cmFL higher 2011 – 2014: shifting

# **Length Frequency Distribution**





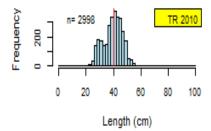
# SKJ - TR (WPEA)

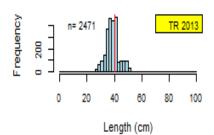


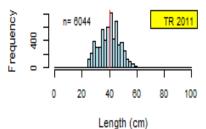
2010 – 2014 : shifting

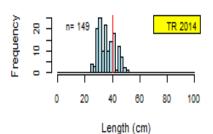
2014 : mostly SKJ < 40 cmFL2015 : mostly SKJ > 40 cmFL

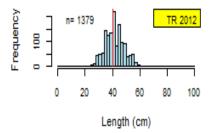
# Results (cont'd)











ICES Journal of Marine Science Advance Access published February 9, 2014

# ICES Journal of Marine Science



ICES Journal of Marine Science; doi:10.1093/icesjms/fsu004

A novel length-based empirical estimation method of spawning potential ratio (SPR), and tests of its performance, for small-scale, data-poor fisheries

Adrian Hordyk1\*, Kotaro Ono2, Sarah Valencia3, Neil Loneragan1, and Jeremy Prince1,4

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<sup>2</sup>School of Aquatic and Fisheries Science, University of Washington, Seattle, WA, USA

<sup>3</sup>Bren School of Environmental Science and Management, University of California, Santa Barbara, CA, USA

<sup>4</sup>Biospherics, P/L South Fremantle, Western Australia, Australia

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Hordyk, A., Ono, K., Valencia, S., Loneragan, N., and Prince, J. A novel length-based empirical estimation method of spawning potential ratio (SPR).

and tests of its performance, for small-scale, data-poor fisheries. - ICES Journal of Marine Science, doi:10.1093/icesjms/fsu004.

ceived 30 Aug

The spawning pot ment decisions for Hordyket al. (this potential ratio. ICE by (f) testingsome ining the sensitivit applying it to data (F/M) and selectiv calculates the resu and SPR. With hig method was teste length and age co the cost-effective estimates of the tharameters when

# Keywords: Bevert

Measurements of relatively cheap a common forms o and Deriso, 1999) the collection of a pertise and expen form of informatic especially so for r defined annual gr the task of ageing

© International Co

# Introduction to per-recruit models for stock assessment

Adrian Hordyk and Neil Loneragan

Acknowledgements

Dr Alex Hesp, Dr Peter Coulson













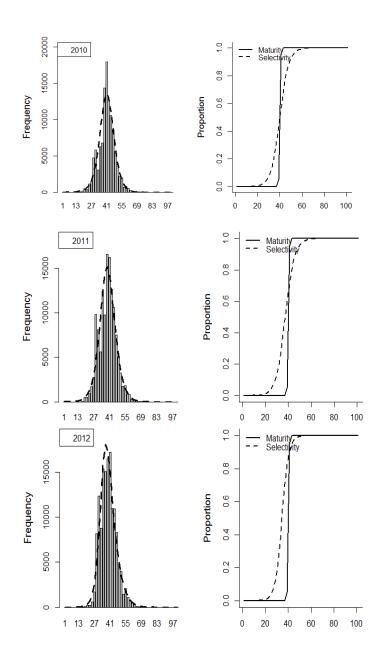
By definition, SPR is always 1 when F = 0SPR declines continuously and smoothly with increasing F

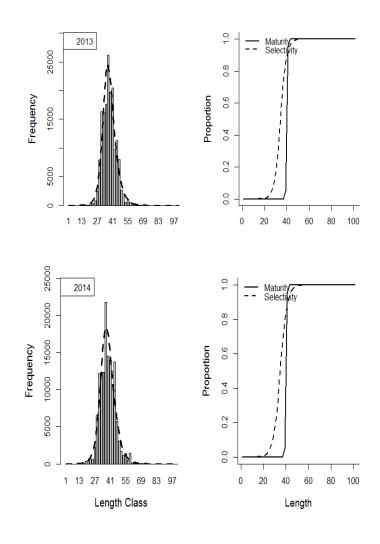
#### **Questions to think about:**

Is the SPR of the stock above or below the reference point(s) Should fishing mortality be decreased or can it be increased? Is the stock in danger of recruitment overfishing?

Downloaded from http://icesi

# Results (cont'd)





# (LB-SPR Require further investigation related to selectivity issue):

Year	Est.	Est. F/M	Biological pa
	SPR		M/k
2010	0.4	7.28	Linf
2011	0.3	6.44	L50
2012	0.3	5.15	L95
2013	0.2	6.96	Hoyle <i>et al</i> . (20
2014	0.2	6.20	

Biological parameters						
M/k	1.4					
Linf	93.6					
L50	40					
L95 41						

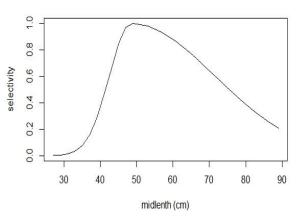
Hoyle *et al*. (2011); Tanabe *et al*. (2003)

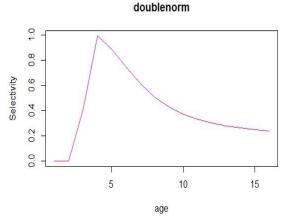
- The LB-SPR analysis assumed that large fish that are missing in the catch have all been caught.
- Within the length data used in the analysis do not cover large fish. 4.
- The low estimated SPR and high estimated F/M maybe pessimistic.

Number of fish sampled less than 40 cm (%)

	PL	PS	SHL	TLH	TR
2010	38	29	22	0	45
2011	47	44	41	96	43
2012	51	48	44	98	35
2013	59	58	70	99	59
2014	55	54	97	96	71

# **Preliminary – Selectivity (PL)**



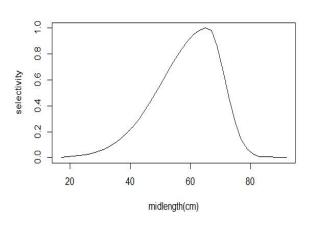


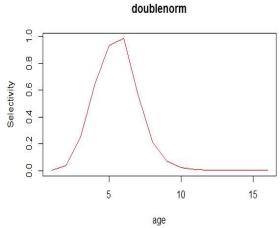
**Hook Size** 

Type of operation

Fishing Ground AW – non AW

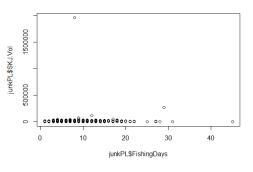
Pole and line in Kendari

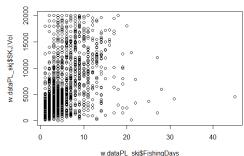




Pole and line in Sorong

# **Preliminary CPUE Standardisation**

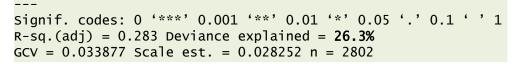




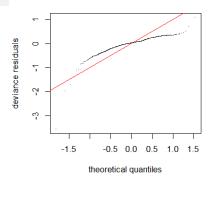
```
Family: Gamma Link function: inverse Formula: log(SKJ.Vol) ~
as.factor(year) + as.factor(quarter) + s(FishingDays)
```

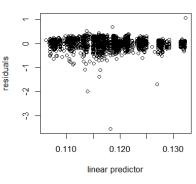
```
Parametric coefficients: Estimate Std. Error t value Pr(>|t|)
(Intercept) 1.231e-01 5.956e-04 206.686 < 2e-16 ***
as.factor(year)2011 2.202e-04 6.679e-04 0.330 0.742
as.factor(year)2012 -3.735e-03 7.020e-04 -5.320 1.12e-07
as.factor(year)2013 -2.606e-03 6.340e-04 -4.110 4.07e-05
as.factor(year)2014 -8.223e-03 6.172e-04 -13.323 < 2e-16
as.factor(year)2015 -5.306e-03 6.815e-04 -7.785 9.73e-15 ***
as.factor(quarter)2 2.084e-04 5.669e-04 0.368 0.713
as.factor(quarter)3 4.768e-05 5.998e-04 0.079 0.937
as.factor(quarter)4 -4.230e-04 5.161e-04 -0.820 0.413
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Approximate significance of smooth terms: edf Ref.df F pvalue s(FishingDays) 6.938 7.954 57.01 <2e-16 \*\*\*



#### Resids vs. linear pred.





Response vs. Fitted Values

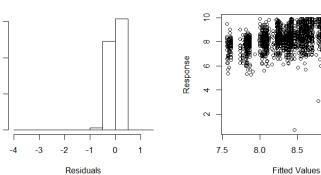
9.0

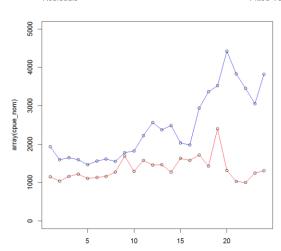
#### Histogram of residuals

1500

1000 Frequency

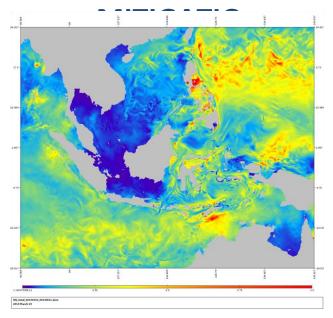
200





#### **SEAPODYM**

# for sustainable tuna fisheries management ADDRESSING CLIMATE CHANGE ADAPTATION and



**SEAPODYM outputs** include, on a weekly basis: Abundance estimates (by FMA),

#### SEAPODYM detailed information on the stock distribution (by class of age) shall support:

- Optimal Catch and Effort Allocation
- Real Time monitoring of effort and catch
- Identification of spawning grounds & nursery areas and their time variability
- Illegal fishing control
- Rapid improvement of fishing statistics
- Rapid improvement of fish model

# RESEARCH: CARBON FOOTPRINT AND BLUE CARBON



- RESEARCH ON CARBON FOOPRINT FOR TUNA FISHING (2015-2016)
- o RESEARCH ON BLUE CARBON (2011-2015)

#### Reseach & Monitoring on Marine & Coastal Carbon Sites



National Funded by Agency for Marine and Fisheries R & D

# Lesson learned from on going WPEA

- 1.Good Project Document
- 2.Good Project Manager
- 3.Long Process...(undefine)
- 4.Expert consultation and Expert Involvement
- 5. Good Data Collection
- 6. Analyses capacity
- 7. Capability Translate to Management
- 8. Regional and subregional Collaboration
- 9. Unstable USD exchange rate to IDR
- 10.Others (Effeciency, friendship,...PM Coord)

# Following Activities

- Continue develop harvest strategy for 713,714,715 for SKJ and YFT (technical WS and Stakeholders WS)
- HS is expected to be adopted by December 2017 (NTMP)
- Observer recruitment, training and Trial on board
- Collect and develop data base for By-catch
- Sellect and conduct Pilot Sites (NTT) for EAFM study on reducing juvenile tuna catch on selected gear.
- Continue Climate change study and develop the two guidelines to Cope with Climate Change
- Supply chain Study
- Cont..Data Collection and Data base maintenance
- Data Analyses, Writing and Reporting

### Acknowledgement (thanks to)

- UNDP, GEF, WCPFC Executive Director and Secretariat, and partner governments/agencies
  - Dr. Jose Padilla, of the UNDP Bangkok office represented UNDP/GEF, Imee and staff of the UNDP Manila office.
  - Sungkwon SOH Ph.d (Sc Manager WCPFC, WPEA-PM)
  - Dr.Tony Lewis (Prodoc consultant)
  - Mr. Peter William (SPC database manager)
  - Director CFRD-AMFRD and Director DRFM\_DGCF
  - All person including port sampling enumerators and staff who cannot listed here

# Thank you

Contact person:

fsatria70@gmail.com CFRD-NTC

Sautampubolon@yahoo.com DGCF









# PROGRESS REPORT Sustainable Management of Highly Migratory Fish Stocks in the West Pacific and East Asian Seas (WPEA - SM)Philippines

### **BASIC INFORMATION**

Title : Sustainable Management of Highly Migratory Fish Stocks in the

West Pacific and East Asian Seas (WPEA – SM) - Philippines

**Project Leader**: Noel C. Barut – Project Focal Point

**Duration** : 3 years (2015 - 2017)

#### **Implementing Agencies:**

**Lead Agencies:** 

**National Fisheries Research and Development Institute (NFRDI)** 

**Bureau of Fisheries and Aquatic Resources (BFAR)** 

#### **Funding Agencies:**

UNEP – GEF

**Western and Central Pacific Fisheries Commission (WCPFC)** 

### **OBJECTIVE**

To strengthen national capacities and regional cooperation to implement fishery sector reforms that will sustain and conserve the highly migratory fish stocks in the West Pacific Ocean and East Asian Seas while considering climatic variability and change"

### PROJECT COMPONENTS

- 1. Strengthened regional governance and national adaptive capacity in management of highly migratory fish stocks moving amongst the Pacific Ocean Warm Pool Large Marine Ecosystem (POWPLME) and East Asian LMEs
- 2. Implementation of policy, institutional and fishery management reform
- 3. Knowledge sharing on highly migratory shared fish stocks

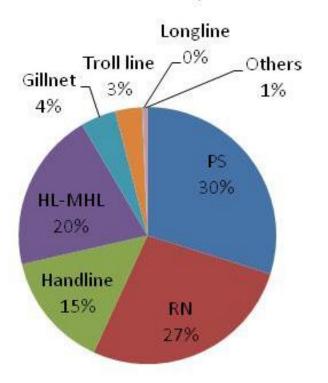
# Activities Conducted in 2016

### A. 7th WPEA-NSAP Tuna Data Review Workshop

- conducted last May 19 20, 2016 in East Asia Royal Hotel, General Santos City
  - 35participants attended the said workshop coming from various BFAR-NSAP Regional Offices
- Purpose: To review port sampling data from NSAP to come-up with best possible catch estimates by species and gear type for 2015.

#### A. 7th WPEA-NSAP Tuna Data Review Workshop

#### Percentage Catch Contribution by Gear for 2015



Catches by Gear (in MT)							
2015	SKJ YFT BET ALB TO						
PS	37,792	11,828	917	-	50,537		
RN	37,471	7,955	373	1	45,800		
Handline	2,820	20,825	743	283	24,671		
HL-MHL	12,833	17,726	585	2,952	34,096		
Gillnet	7,309	97	67	3	7,476		
Troll line	3,351	1,796	551	1	5,699		
Longline	160	133	5	7	305		
Others	543	308	4	0	855		
TOTAL	102,279	60,669	3,244	3,246	169,438		

### B. 9th Philippines/WCPFC Annual Tuna Fisheries Catch Estimates Review Workshop

- conducted last May 23 24, 2016 in East Asia Royale Hotel, General Santos City
- Purpose: To validate existing data from various sources such as the PSA, port sampling (NSAP), logsheets, cannery, observer, PFDA and industry estimates, in order to work towards a system for producing reliable catch estimates by species and by gear type that was submitted to WCPFC.

9<sup>th</sup> Philippine Tuna Catch Estimates Workshop
May 23-24, 2016
East Asia Royale Hotel, General Santos City

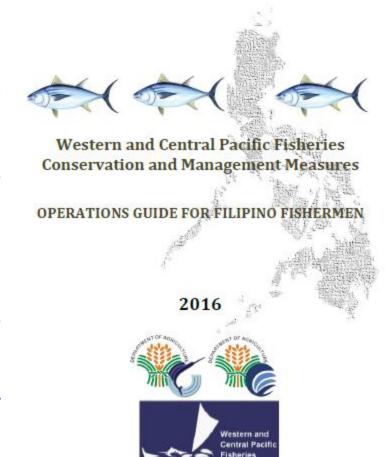
### **Oceanic Tuna Catch Estimates for 2015**

		SKJ		YFT		BET		TOTAL
Gear	Year	MT	%	MT	%	MT	%	MT
PS	2015	42,594	75%	13,332	23%	1,034	2%	56,959
RN	2015	37,471	82%	7,955	17%	373	1%	45,799
HANDLINE	2015	2,820	15%	20,825	82%	743	2%	24,388
HOOK-AND-LINE	2015	12,833	39%	17,726	60%	585	1%	31,144
OTHERS	2015	11,797	82%	2,266	16%	220	2%	14,283
TOTAL	2015	107,515	62%	62,104	36%	2,955	2%	172,573

TOTAL	2014	116,186	64%	60,860	34%	3,172	2%	180,218	2014
-------	------	---------	-----	--------	-----	-------	----	---------	------

#### C. Operational Guide for Filipino Fishermen

- developed to help facilitate the implementation of Western and Central Pacific Fisheries Commission (WCPFC) conservation and management measures by Filipino fishermen.
- It also provides a summary of important information that fishermen would need to consider in fishing for tuna resources in the Western and Central Pacific Ocean.
- The Operations Guide not only aims to supplement orientation and training but also to help promote sustainable management of tuna resources.
- This is provided to skippers and crew prior to fishing operations to serve as a useful reference on board fishing vessels.



#### **D.** Expansion of Observer Data Colle

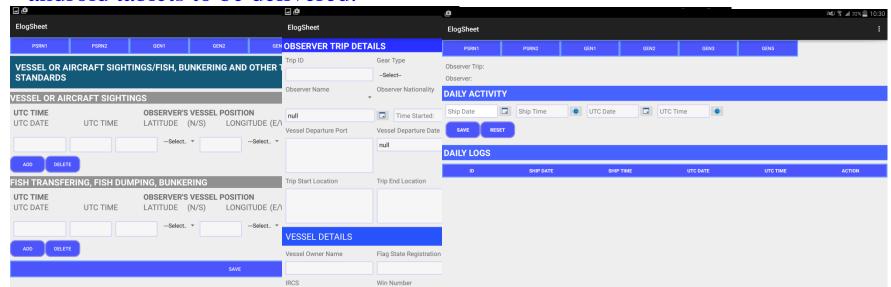
- 6 observers were hired and deprishing vessels (Purse Seine/Ring I and Surigao in order to increase of the Philippine EEZ.

Name of Observer	Region
Ruben Buemia	4-A (Calabarzon)
Ian Edward Calpe	4-A (Calabarzon)
Marco Briz replaced by John VergelCenabre	5 (Bicol)
Kenneth Molo	5 (Bicol)
Oriel Rosero replaced by	13 (Caraga)
Mario Laroa	
Francisco Piloton Jr.	13 (Caraga)



# E. Conduct of Workshop for the Use of Observer Electronic Forms in Android Tablets

- Development team of BFAR have come up with an android base application of observer report forms that can be installed on android tablets and will be able to transmit information/data collected by the observers to the Fisheries Observer Program Management Office much faster and to which data check and analysis can be done much faster.
- the training workshop will be conducted within this year, still waiting for the android tablets to be delivered.



### F. E-Logbook Training

- conducted last September 21 22, 2016 in General Santos City
- attended by fishing vessel captain/master and crew



### G. Review Workshop on Legal Arrangements, EAFM, Certification and Supply Chain Analysis

- conducted last May 30 June 1, 2016 in Davao City
- this workshop was convened to identify specific activities to reach project target in relation to EAFM; adaptive fisheries management against climate change; and market-based approach to sustainable harvest of tunas through certification and supply chain analysis; and to review fisheries legal framework in complying with WCPFC requirements.



### H. National Harvest Strategy Workshop

- conducted last June 2-3, 2016 in Davao City
- this workshop was convened to understand the components of harvest strategy framework, to identify details for the Philippine requirements and to establish detailed work plan to meet such requirements.



#### I. Port Sampling Data Collection

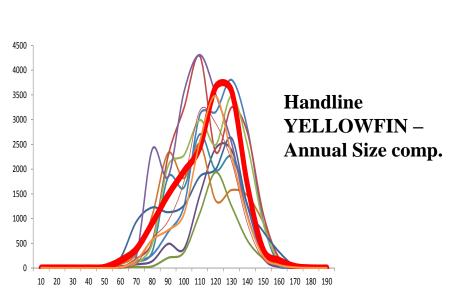
- tuna catch and length data were collected from various landing sites and are encoded in the NSAP Database System, in collaboration with BFAR-NSAP Regional Offices.
- -Port sampling, data encoding, field supervision and other activities are ongoing.

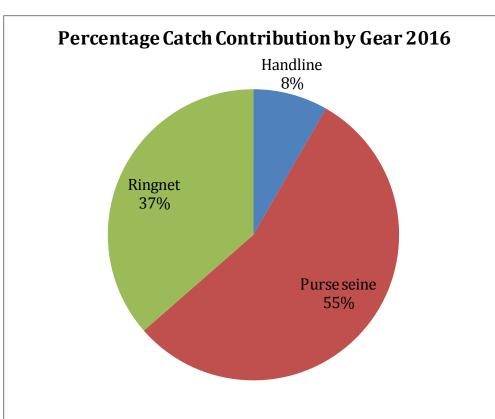






#### I. PORT SAMPLING

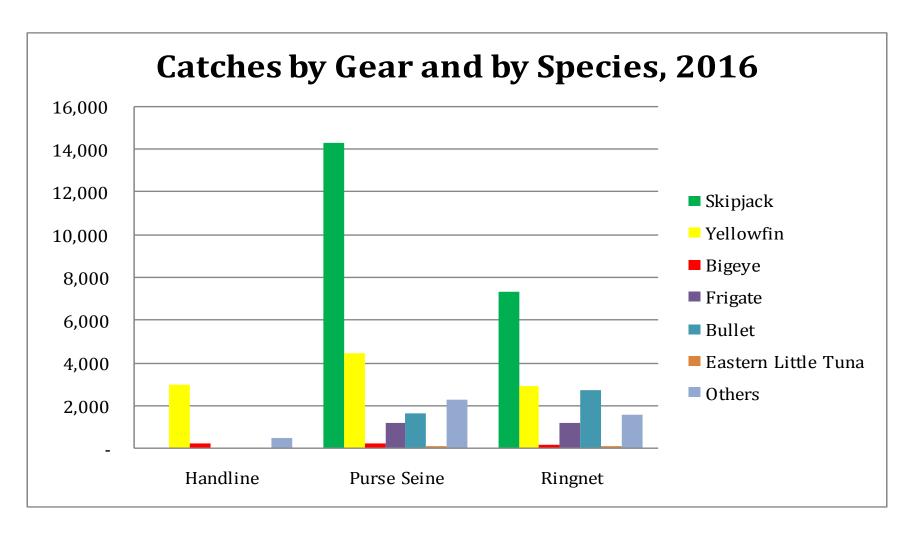




Gear	Catch (MT)
Handline	3,606.64
Purse seine	24,036.21
Ringnet	15,847.17
Total*	43,490.02

Source: BFAR – NSAP 12 (as of 15 Oct 2016)

#### I. PORT SAMPLING



Source: BFAR – NSAP 12 (as of 15 Oct 2016)

- J. Participation to the 12<sup>th</sup> Regular Session of the Scientific Committee of the Commission for the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean (WCPFC-SC12)
  - One participant from the Philippines was supported by this project to attend the WCPFC-SC112 in Bali, Indonesia last August 3-11, 2016.



### K. Participation to TDW-10

- One (1) participant from the Philippines was supported by this project to attend the 10<sup>th</sup> Tuna Data Workshop (TDW-10) held SPC Headquarters, Noumea, New Caledonia last 25 – 29 April 2016.



### L. Participation to IWC8

- One (1) participant from the Philippines was supported by this project to attend the **Eighth GEF Biennial International Waters Conference (IWC8)** held Sri Lanka last May 9 – 13, 2016.







# **Future Activities**

The future activities of this project will include but not limited to the following:

- 1. Continue to conduct country-wide port sampling activities including cannery receipts data collection; and improve logsheets data collection
- 2. Continue to conduct annual tuna catch estimates review workshops
- 3. Review and update the Operational Guide for Filipino Fishermen
- 4. Conduct of activities/consultancies on Harvest Strategy, EAFM, Climate Change, Tuna Supply Chain, Eco-labelling & Certification and others.
- 5. Continue to increase observer data collection /coverage in the Philippine EEZ.







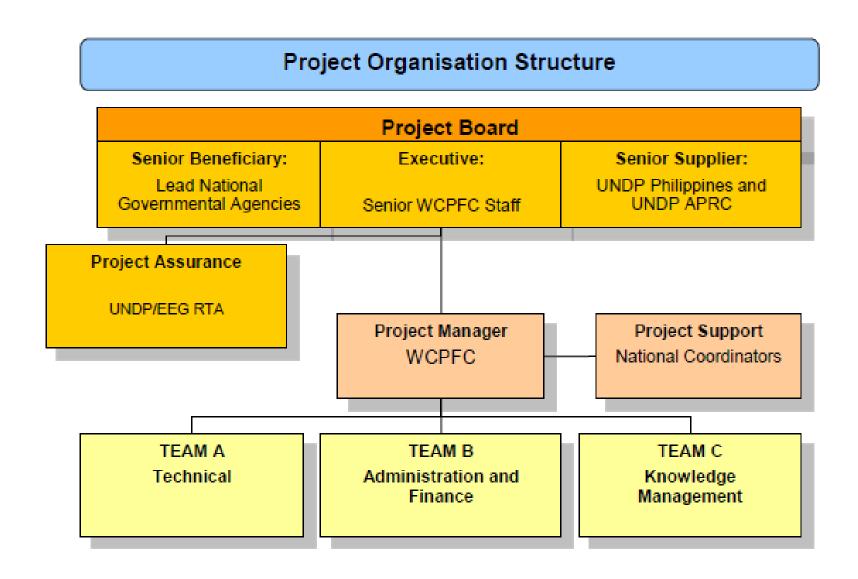


### Sustainable Management of Highly Migratory Fish Stocks in the West Pacific and East Asian Seas (WPEA-SM Project)

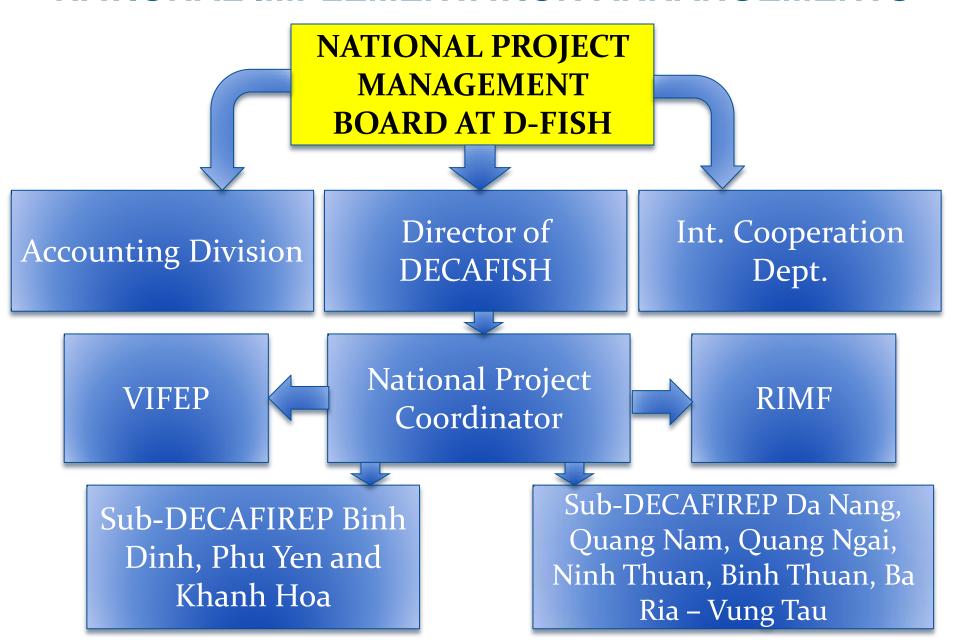
### VIETNAM'S PROJECT PROGRESS

WPEA-SM Project Board Meeting 28-29 October 2016 Cebu, Philippines

#### REGIONAL IMPLEMENTATION ARRANGEMENTS



#### NATIONAL IMPLEMENTATION ARRANGEMENTS



## **Activities in 2016**

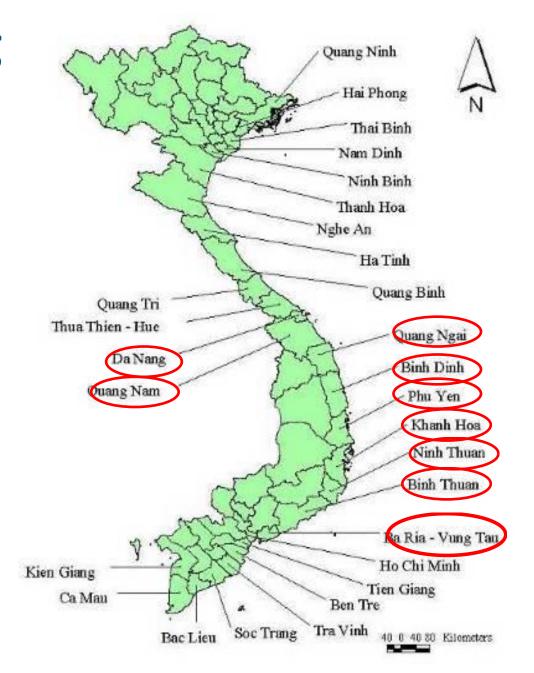
01. Support participation of Vietnam to SC12	06. Summary Translation of the WCPFC 2015 CMMs into Vietnamese
02. National tuna coordination (NTC)	07. Consultancy – Prior study on Climate Change
03. Convene A Data Review and catch estimation workshop	08. Development of guidelines to cope with the impacts of climate change
04. Observer programme	09. Development of harvest strategy framework
05. Monitoring the compliance with WCPFC requirements	10. Three country workshop on HS and CC Issues

### **Activities in 2016**

11. Reconstruction of catch histories	16. Port sampling
12. Support participation in SPC's Tuna Data Workshop	17. Field trip for the supervision of data collection and port sampling
13. Consultancy – TUNA Supply chain analysis/traceability	18. Field trip for the supervision of data collection in Vung Tau provinces
14. Consultancy – Sustainability/certification	19. Consultancy on EAFM issue
15. Workshop for the review of Market-based Sustainability and other Consultancies	20. Review Workshop on EAFM and HS Consultancies
	21. IW: Learn

## 1. Port sampling

- Port sampling in 9 provinces;
- Three main tuna fisheries (i.e. LL/HL, PS and GN)
- Collected data types: landing data, logbook, observer data



# 1. Port sampling

Provinces	Total unloading	Port samples	Landing samples	Logbook
Binh Thuan	1,356	90	594	
Da Nang	5,473	90	600	
Quang Nam	611	78	375	
Quang Ngai	259	90	259	
Khanh Hoa	4,571	720	3,144	494
Binh Dinh	4,430	306	1,697	977
Ninh Thuan	1,335	90	634	31
<b>Grand Total</b>	18,035	1,464	7,303	1,502

# 2. Conduct a review and catch estimate WS

(20-24 June 2016 in Binh Dinh province):

Gear	BET	YFT	SKJ	TOTAL
Gillnet	453	628	38.821	39,902
Purse seine	1,925	6,431	37,454	45,810
Longline/handline	2,026	17,859	-	19,885
Total	4,405	24,918	76,275	105,597

### 3. Observer program

- Collaboration with WWF to implement observer for LL&HL
- One training for observer conducted;
- 7 observer trips conducted;
- Planning to write an summary report on observer trips in 2016.
- Planning to conduct a risk assessment for bycatch species under collaboration with Fisheries Improvement Program (FIP) via WWF.

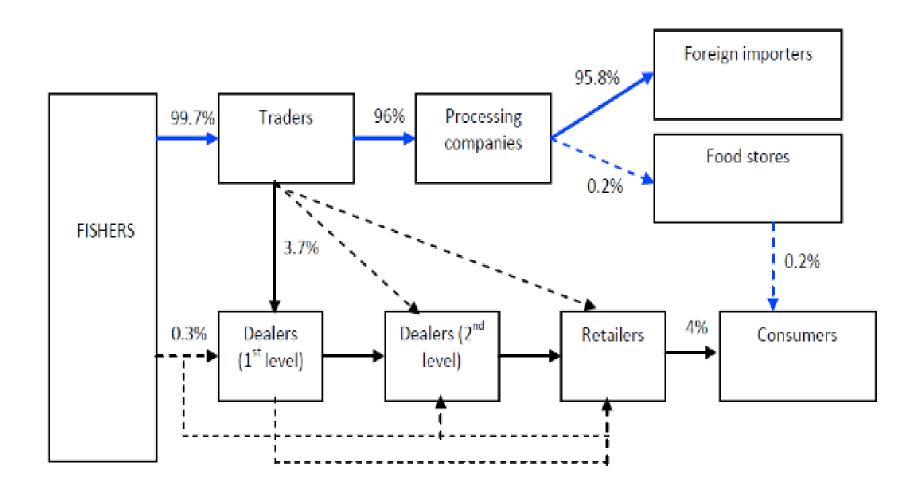
# 4. Translation of the Convention and relevant CMMs into Vietnamese

- The WCPFC convention translated into Vietnamese;
- Some relevant CMMs was translated too;
- WWF funded to edit and print 100 hard copies of the translation version.

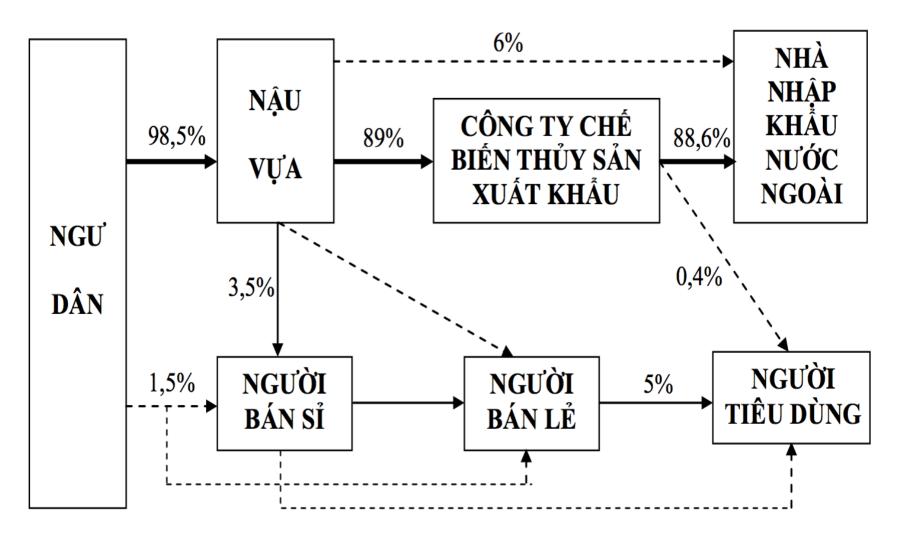
### 5. Climate change issues

- Impacts of climate change reviewed for tuna fisheries in Viet Nam;
- A statistical model was developed to integrate climate change impacts into tuna fisheries consideration on changes of catch rate and economic income;
- A first draft of adaptive guidelines on climate change produced.

### 6. Tuna supply chain analysis (1)

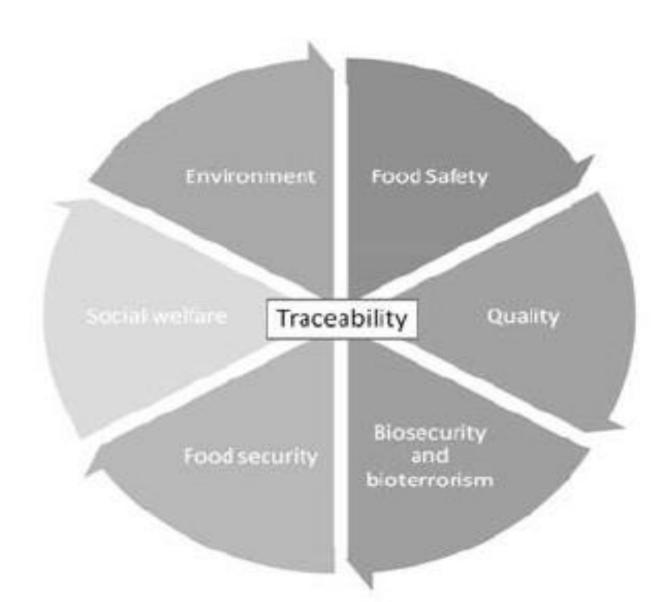


## 6. Tuna supply chain analysis (2)



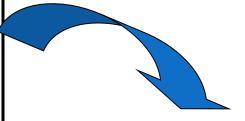
Tuna supply chain for Skipjack in Khanh Hoa province

### 7. Certification scheme analysis



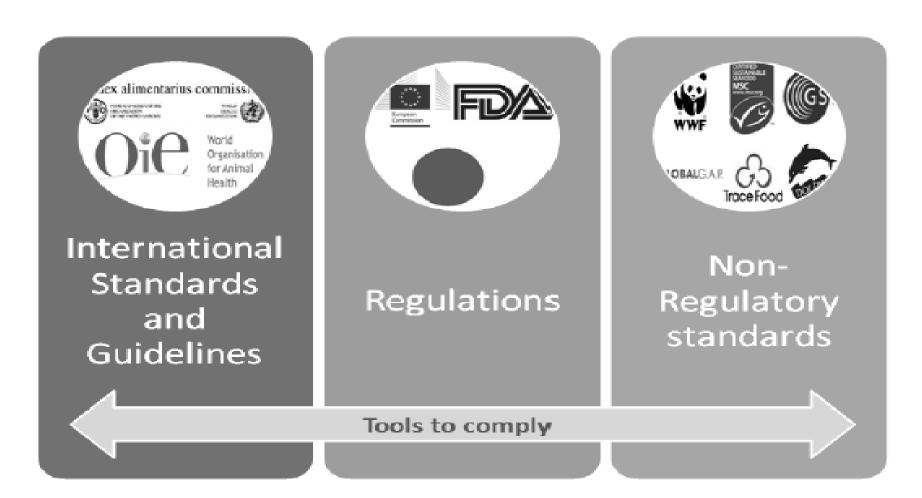
#### Traceability: Background and Use of

- Help determines the cause of the security problems that occur fishery products,
- Meet consumer expectations for safety and quality of fishery product purchased
- Provides the ability to withdraw fishery product efficiently in the event of contamination
- Comply with the various legal requirements.



- ☐ Safety (risk management),
- ☐ Quality,
- ☐ Biosecurity,
- ☐ Business management

### 8. Certificate types



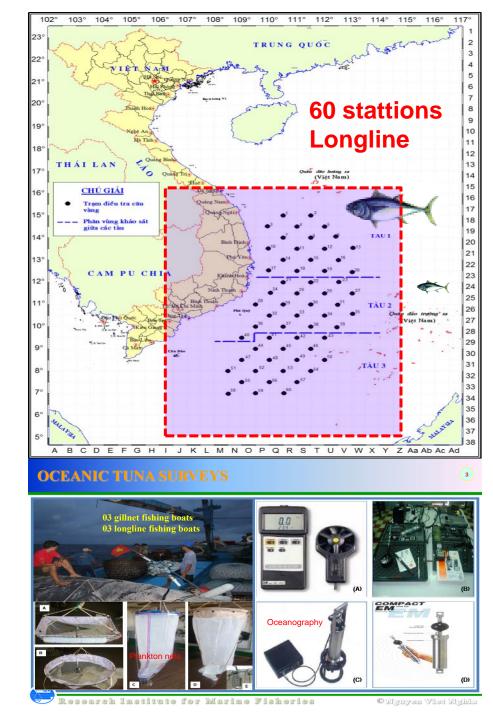
Source: FAO 2013

## 8. Certification types in Viet Nam

Type of certificate	Requiring country/organization	Objective
EU catch certificate	EU	Traceability; IUU removal
ICCAT swordfish and bigeye catch statistic	ICCAT	Traceability and sustainability
Marine Stewardship Council (MSC)	US and EU	Sustainability
Earth Island Institute (EII)	US and EU	???

### Contribution

- National tuna fisheries surveys;
- Private sectors, NGOs: Fisheries improvement program;
- Conduct observer in collaboration with WWF;
- Total in kind contribution of \$ 461,760 US



### **Constraints**

- Discontinuation of port sampling in six months;
- Institutional rearrangement;
- Lack of human resources.

# **Advantages**

- Project manager work closely with NTC;
- Technical support by WCPFC;
- Highly consideration by decision makers;
- National tuna fisheries management plan approved;
- Recognized the important roles of tuna fisheries in national economic contribution;
- Market-based management instruments: EU catch certificate, WCPFC requirements...

# Acknowledgement

- GEF/UNDP for funding support
- WCPFC for coordination and implementation
- Dr. SK Soh for very high collaboration and support
- Mr. Peter Williams from SPC for port sampling guidelines
- Dr. Antony Lewis for technical support
- All Sub-Departments

# THANK YOU













#### Sustainable Management of Highly Migratory Fish Stocks in the West Pacific and East Asian Seas (WPEA SM Project)

#### 2017 ANNUAL WORK PLAN AND BUDGET

- 1. In 2017, a total of 65 activities were identified to meet the target of WPEA project with a total budget of \$1,047,445, including a country programme budget of \$947, 445 and a programme management budget of \$100,000 (11%). Indonesia, Philippines and Vietnam have 23, 21 and 21 activities, respectively.
- 2. According to the Logframe, each country's activities are similar but not equal. Three country workshops have been convened each year: a workshop on sub-regional stock assessment in Viet Nam, 2015, and a workshop for the development of harvest strategy and climate change impacts workshop in Philippines, 2016. In 2017, the theme of the three country workshop will be "sub-regional cooperation and collaboration," which will be held in Indonesia.
- 3. For the monitoring and management of project activities, the following process is applied to each activity:
  - 1) Submission of a detailed project activity proposal (format is in **Annex A**) to be reviewed by the project manager;
  - 2) Submission of a signed project activity proposal signed by national project coordinator;
  - 3) Wire-transfer of the project activity budget;
  - 4) Implementation of each activity and submission of activity outputs as described in the proposal;
- 4. Project activity titles and budget is summarized below.

Outcome	ID	Indonesia	Budget
1.1	1	Travel - Capacity building in science - Participation in SC13 (Cook Island)	7,000
1.1	2	WS - Sub-regional cooperation - national workshop	5,000
1.1	3	Consultancy - Project coordination and administration at national level	8,400
1.1	4	Travel - Participation in Annual Tuna Data workshop at SPC	8,000
1.1	5	WS - Indonesia's Annual Tuna Data Review WS from Port Sampling - Bitung/Kendari	20,000
1.1	6	WS - Three-Country WS (Sub-regional cooperation - tentative topic) - Indonesia	20,000
1.1	7	Reconstruction of historical tuna catches and effort	10,000
1.2	8	Consultancy - Climate Change Report	1,000
1.3	9	Consultancy, WS - Development of Harvest Strategy Framework for archipelagic pole-and-line skipjack fishery	90,000

1.3	10	WS - Final WS on Climate Change - Review of Consultancy Report	10,000	
2.1	11	Consultancy - Compliance with WCPFC - Consultancy: production of MCS report "Indonesian actions to combat IUU fishing activities"	2,000	
2.1	12	Consultancy - National legislation review - DGCF WS on the review of the consultancy	8,000	
2.2	13	Consultancy - Supply Chain characterized for selected tuna fisheries (local expert)	13,000	
2.2	14	"WS - Review WS on Supply Chain and Chain of Custody (1-day WS)	12,000	
2.2	15	WS - Stakeholder workshop on sustainable fishing practices in NTT (supply chain, certification)	15,000	
2.3	16	Consultancy, WS - SA Report: Risk assessment of retained, by-catch and ETP species	9,000	
2.3	17	Port sampling	64,480	
2.3	18	WS - Catch Estimation workshop	24,000	
2.4	19	Consultancy - Implementation of WPEA trial observer programme - data collection (training, trip, etc)	8,000	
2.4	20	Consultancy, WS - EAFM Consultancy and Stakeholder WS in NTT	10,000	
2.4	21	Consultancy - Pilot scale EAFM application (NTT)	12,700	
2.4	22	WS - EAFM workshop (final) –policy makers	5,000	
3.1	23	Participation in the regional knowledge platform	6,000	
	Total Budget 368,580			

Outcome	ID	Philippines	Budget
1.1	1	Capacity building in country's science (SC13) (support to SC13 meeting participation)	6,060
1.1	2	Annual tuna catch estimation Workshop (in conjunction with Data Review Workshop)	4,950
1.1	3	WPEA Project coordination at national level	11,400
1.1	4	Preparation for the Sub-regional (WCPFC/PEMSEA) Consultation Forum - National workshop	5,000
1.1	5	Three-Country Workshop - Development of Sub-regional Cooperation and Collaboration Mechanism	12,000
1.1	6	Capacity building in fishery monitoring - participation in SPC Tuna Data review Workshop	4,000
1.2	7	Climate Change Modelling WS (WS budget, one int'l expert)	5,000
1.2	8	Workshop to review two adaptive management guidelines against the impact of climate changes	3,000
1.3	9	Workshop for the development of climate change policy - General Manual for the Climate Change Disaster Risk Reduction Management	12,000
2.1	10	Publication of Updated Operational Guide for Filipino Fishermen	1,000
2.1	11	Consultancy and Workshop on the review of the Philippine FAD management policy	8000
2.1	12	Harvest Strategy Workshops (two workshops in 2017)	30000

2.2	13	Observer programme - expanded tuna data collection (BFAR - joint with bycatch data collection)	20,000
2.2	14	Supply chain analysis (consultancy and workshop)	9000
2.2	15	Development of market-based sustainable fishing manual - certification (consultancy and workshop)	5,000
2.3	16	Data Review WS (in conjunction with annual tuna catch estimation workshop)	21,455
2.3	17	Port sampling and tuna catch data collection	38,000
2.4	18	Observer programme - bycatch data collection (BFAR - joint with tuna data collection)	29,100
2.4	19	Workshop on risk assessment for bycatch data (Int'l consultant)	13000
2.4	20	Pilot scale EAFM application to a selected site and fishery (data collection, consultancy and workshop)	4,000
3.1	21	Sub-regional knowledge sharing activity	6,000

Total Budget

247,965

Outcome	ID	Viet Nam	Total
1.1	1	Capacity building in science and compliance - Paricipation in SC13 (Cook Island) - 2 staff/SC meeting and 1staff/TCC meeting	17,000
1.1	2	Sub-regional cooperation - consultancy and national workshop	10,000
1.1	3	National Tuna Coordination and Finance and administration fee for the WPEA project	10,500
1.1	4	Participation in Annual Tuna Data workshop at SPC	4,000
1.1	5	Vietnam's Annual Tuna Data Review WS from Port Sampling (in conjunction with Catch Estimates WS)	20,000
1.1	6	Three-Country WS (Theme - Sub-regional cooperation) in Indonesia	15,000
1.2	7	Consultancy - Finalization of two guidelines for adaptive management against the impacts of climate change, including field trip	6,000
1.3	8	Two workshops for the Revision of NTMP - review and reflection of consultancy outputs related with RPs and HCRs, CC issues, EAFM, and market-based sustainability issues, as required	50,000
1.3	9	National climate change policy and training workshop (2-day WS)	25,000
2.1	10	Compliance with WCPFC - report of Part 1 and Part 2	3,600
2.1	11	Harvest Strategy Workshop (Int'l expert) - 2-day WS (in conjunction with Climate Change Policy and Training WS)	15,000
2.1	12	Consultancy - Finalizing RPs and HCRs to be reflected into NTMP (RIMF)	3,000
2.2	13	WS - Stakeholder workshop on sustainable fishing practices in Nha Trang	8,000
2.3	14	Publication of Species ID for shark and other bycatch species in Vietnamese	2,000
2.3	15	Update of Vietnam's Tuna Fishery Profile (RIMF)	2,000
2.3	16	Port sampling - data collection, data input into database, and	93,800

		field supervision	
2.3	17	Catch Estimation WS with Species ID training for shark and	20,000
2.3	1 /	bycatch (in conjunction with National Tuna Data Review WS)	20,000
2.4	18	WPEA observer programme in collaboration with WWF	5,000
2.4	19	Development of EAFM application guide (EAFM prior study	5,000
2.4	19	continued)	3,000
2.4	20	EAFM workshop – policy makers	10,000
3.1	21	Participation in the regional knowledge platform	6,000

**Total budget** 

330,900

#### Sustainable Management of Highly Migratory Fish Stocks in the West Pacific and East Asian Seas Project (WPEA SM Project)

#### **Activity-based Project Proposal**

#### **COUNTRY**

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#### PART A. ADMINISTRATIVE SUMMARY

- 1) **Project Activity Title**:
- 2) **Organization**:
- 3) Administrative Contact:
- 4) Principal Investigator and CV:
- 5) **Reference to WPEA OFM Project**: Output: Activity ID:
- 6) Commencement and Completion Date:
- 7) Project Budget Requested (Details in Attachment X):

#### PART B: PROJECT PROPOSAL DESCRIPTION

- 1) Background and Need
- 2) Objectives
- 3) Project Outputs and Form of Results
- 4) Methods
- 5) Risks of project not achieving Project Objectives
- 6) Schedule of Milestones
- 7) Other Related Projects
- 8) Project Staff and CV's
- 9) Detailed costs against milestones
- 10) Bank Information

Bank Name	
Bank Address	
Account Name	
Account Number	
Swift Code	

#### **Signature**

Proposed:	
National project coordinator	Date:
Recommending approval:	
<b>Administrative Contact</b>	Date:
Approved:	
WPEA-SM Project Manager	Date:

#### Attachment X

Item	Budget Description	Source of budget (In-kind contribution from Vietnam, or Grant funding)	Amount
Travel	Local consultants		\$
	Training instructors, if outside of the meeting		\$
	venue city		
	Relevant fishery officers, if outside of the		\$
	meeting venue city		
Meeting	Meeting room, no cost if government building is		\$
arrangement	used		
	Meeting facilities, equipments, vehicles,		\$
Miss	communications, etc.		<b>¢</b>
Misc.	Refreshments etc.		\$
Others			
Total			\$