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WPEA OFM Project: Progress Report – Indonesia

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INDONESIA



WESTERN AND CENTRAL PACIFIC FISHERIES COMMISSION (WCPFC)

West Pacific East Asia Oceanic Fisheries Management (WPEA OFM)
Global Environment Facility (GEF)

INDONESIA

Progress Report (June 2011 – June 2012)

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And

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INDONESIA

I. Introduction

To improve conservation and management of highly migratory fish stocks in the West Pacific-East Asia region, West Pacific East Asia Oceanic Fisheries Management project (WPEA OFM) has been developed. The project moreover focus on three countries (Indonesia, Philippines and Vietnam) to strengthen national capacities and international cooperation on priority trans-boundary concerns relating to the conservation and management of highly migratory fish stocks in the west Pacific Ocean and east Asia. In Indonesia there are two institutional working together with WCPFC under this WPEA OFM project that is Research Center for Fisheries Management and Conservation (RCFMC) previously known as Research Center for Capture Fisheries (RCCF) and Directorate Fisheries Resource and Management (DFRM). RCFMC are more focused in the Port sampling program in Bitung and Kendari while DFRM more involve in the project that relate to management, legal, policy and institutional issues. A component of the project that concern on the capacity building has involved scientists and data manager staff from RCFMC to join workshop and training designed in the Project. This progress report is provided to describe some activities executed according to AWP since June 2011 to June 2012.

II. Monitoring, data and fisheries Assessment

Port sampling activities have been continued since late April 2010. In total there are 20 trained enumerators that assigned to conduct port samplings i.e. 12 enumerators in Bitung, 5 in Kendari and 3 enumerators in Sodohoa-Kendari. Port samplings in Bitung were held at PT Bitung Mina Utama (PT BMU), PT Bintang Mandiri Bersaudara (PT BMB), PT Sinar Pure Food (PT SPF), PT Perikani, PPS Bitung and PT Nutrindo Freshfood International (PT NFI). In Kendari and Sodohoa, samplings were conducted at PPS Kendari and TPI (Tempat Pendaratan Ikan)/PPI (Pusat Pendaratan Ikan) Sodohoa, respectively. Recently in July 2012 a new port sampling in Sorong Papua has been established. The results of the former port sampling activities are provided in the appendix 1. The status of port sampling activities is provided in table below:

Table 1. Status of Port sampling activities in Bitung and Kendari

Ports sampling	Sampling Status	Data entry status	Data Validation Status
Implementing Year 2010			
Bitung	April - December	April - December	Validated
Kendari	April - December	April - December	Validated
Sodoha	April - December	April - December	Validated
Implementing Year 2011			
Bitung	January - July	February - August	validated
Kendari	January - July	February - August	validated
Sodoha	January - July	February - August	validated
Bitung	January-August	February - August	Validated
Kendari	January-August	February - August	Validated
Sodoha	January-August	February - August	Validated
Bitung	September- October	September- December	Validated
Kendari	September- October	September- December	Validated
Sodoha	September- October	September- December	Validated
Bitung	November-December	November-December	Validated
Kendari	November-December	September- December	Validated
Sodoha	November-December	November-December	Validated
Implementing Year 2012			
Bitung	January - March	January - March	Not Yet Validated
Kendari	January - March	January - March	Not Yet Validated
Sodoha	January - March	January - March	Not Yet Validated
Bitung	April - June	April - June	Not Yet Validated
Kendari	April - June	April - June	Not Yet Validated
Sodoha	April - June	April - June	Not Yet Validated

During June 2011 to June 2012 there are some activities conducted such as:

1. Port Sampling in Bitung and Kendari as Regular activities
2. Data Validation: Visit to port sampling sites
3. A port Sampling Audit and workshop at both sampling ports
4. Consultancy Meeting with both scientific manager and data base manager from WCPFC
5. Local workshop as part of shared knowledge process on the stock assessment work in the WCPO area by RCFMC scientist to other related scientists.
6. Development of a new port sampling site in sorong , Papua.

III. Management, legal, policy and institutional issues

In order to strengthen national capacities in oceanic fishery management, strengthen national laws, policies and institutions in line with WCPFC requirement. There are some activities had been conducted in Jakarta as stated in annual work Plan (AWP 2010 AWP 2011 and AWP 2012). Those activities are:

1. Tuna Fisheries Profile → January – April 2011
2. 2nd Eastern Indonesia Tuna Annual Catch Estimates Review Workshop → Jakarta, 7 - 9 April 2011
3. Meeting for Review of the Second Year AWP and Development of the third year AWP → Jakarta, 21 – 23 November 2011
4. Preparatory meeting for WPEA review workshop on policy, legal and institutional arrangements → 29 February – 3 March 2012
5. Data collection and finalization of three consultancy reports (PLI, NMTP and National Tuna Association) → March – April 2012
6. NTC and staff Allowance → November 2011 – August 2012
7. Review of Tuna Fisheries Profile by local expert → December 2011 – March 2012
8. Workshop on the Review of WPEA Consultancy Reports (PLI issues, Tuna Fisheries Profile, NTMP, National Tuna Association) → Jakarta, 7 - 11 May 2012

Workshops reported already produced and submitted to the secretariat including the draft of the National tuna management plan and consultancy report (PLI, National Tuna Association and Tuna Fisheries Profile). For the improvement purpose, three consultancy report has been reviewed by DGCF and RCFMC. The final draft of three consultancy report has been published by conducting the workshop on 7-11 May 2012. Based on the workshop, the consultancy report should be improved with the recommendation from the audience of the workshop. For the finalization of the three consultancy reports, DGCF with WCPFC support will conduct the workshop on August 2012 Regarding to the important of having other operational level data, Logbook program has already introduced to several fishing port (e.g. Bitung, Cilacap, Ambon, Pelabuhan ratu). This step should continue to the implementation of logbook in selected fishing port.

IV. Status of Project Activities

Activity title	Commencement and Completion date	Description of the activity	Output	Budget (US \$) 1USD~ IDR 9000	Status
I. PORT SAMPLING					
Enumerator Recruitment	23-29 March 2010	A starting activities RCFMC conduct recruitment of new enumerators in relation to WPEA OFM project	20 ne enumerator recruited	2000 Inkind	Completed
Enumerator training	6-11 April 2010	It is required to trained recruited enumerator as required by WCPFC under WPEA OFM	Training report for enumerator produced	8,671	Completed
Review WS on Port Sampling Conduct a port sampling audit (conducted when a workshop being held in Indonesia) which includes audit database and data summary report at Bitung and Kendari in early 2010, and produce a review report.	22 – 25 November 2010	There were 20 enumerators (12 enumerators from Bitung, 5 enumerators from PPS Kendari and 3 enumerators from PPI Sodoha), 4 staffs from RCCF (including database manager) and 1 international expert from SPC (Peter William). The workshop was held in Bitung (presentation and discussion in Wisma Pelaut International, Bitung, for the first 2 days and visit the Bitung port sampling on the following 2 days	1. Port Sampling procedure review and refine	8,640	Completed
Activity Y2 and Y3 -IDN-02 Review WS on Port Sampling	November 2011	In 2011 port sampling audit and port sampling workshop was conducted separately. RCFMC staff	1. Data base refine 2. Produce	9,878	Completed

		(Fayakun Satria, Bayu, Mahiswara, Berbudi and Okta) and WCPFC data base manager Peter William visited KEndari and Bitung to conduct the workshop. First, the workshop was conducted in Kendari that involved 5 enumerators from PPS Kendari and 3 Enumerators from Sodoha, some PSS staff also participated in the workshop. Second, The workshop was Also held in Bitung (presentation and discussion in Wisma Pelaut International, Bitung, for the first 2 days and visit the some ports sampling on the following 2 days)	Quarterly template report		
Port sampling and Equipments for port sampling and data collection	November 2010	<ol style="list-style-type: none"> 1. Three Motor cycles Provided (2 for bitung, 1 for kendari) 2. Calipers, measuring boards, enumerators t shirt uniform, name tag, digital cameras 3. Rent offices, Furnitures for offices 4. Desktops, Printers, modem, 5. Laptop for field supervisor 	Port sampling equipment provided	19,375	Completed
Data base supporting equipments, tools and devices	28 Oct – 6 November	Computer, server, laptop, Printer (Bitung, Kendari, Sodohoa and Jakarta)	Centralized database equipment provided, report produced	8500	Completed

port sampling in Bitung, Sodohoa, Kendari	April- June 2010	recruited and trained enumerators (12 Bitung, 5 PPS Kendari, 3 Sodohoa continue to conduct port sampling	Data port sampling produced Enumerators Salary paid	7,800	Completed
Port sampling in Bitung, Sodohoa, Kendari	Juli –Dec 2010	recruited and trained enumerators (12 Bitung, 5 PPS Kendari, 3 Sodohoa continue to conduct port sampling	Data port sampling produced Enumerators Salary paid	15,600	Completed
port sampling in Bitung, Sodohoa, Kendari	Jan-march2011 (3 months)	recruited and trained enumerators (12 Bitung, 5 PPS Kendari, 3 Sodohoa continue to conduct port sampling	Data port sampling produced Enumerators Salary paid	7,800	Completed
port sampling in Bitung, Sodohoa, Kendari	April-June 2011 (3 months)	recruited and trained enumerators (12 Bitung, 5 PPS Kendari, 3 Sodohoa continue to conduct port sampling	Data port sampling produced Enumerators Salary paid	7,800	Completed
port sampling in Bitung, Sodohoa, Kendari	July-October 2011 (4 months)	recruited and trained enumerators (12 Bitung, 5 PPS Kendari, 3 Sodohoa continue to conduct port sampling	Data port sampling produced Enumerators Salary paid	10,400	Completed
port sampling in Bitung, Sodohoa, Kendari	Nov-Dec 2011 (2 months)	recruited and trained enumerators (12 Bitung, 5 PPS Kendari, 3 Sodohoa continue to conduct port sampling	Data port sampling produced Enumerators Salary paid	5,778	Completed
Enumerators Adjustment salary	Jan-Oct 2011 (10 months)	20 enumerators	Enumerators adjustment Salary paid	4,667	Completed
port sampling in Bitung, Sodohoa, Kendari	Jan-April 2012 (4 months)	recruited and trained enumerators (12 Bitung, 5 PPS Kendari, 3 Sodohoa continue to conduct port sampling	Data port sampling produced Enumerators Salary paid	12,333	Completed

port sampling in Bitung, Sodohoa, Kendari	May-August 2012 (4 months)	recruited and trained enumerators (12 Bitung, 5 PPS Kendari, 3 Sodohoa continue to conduct port sampling	Data port sampling produced Enumerators Salary paid	12,333	Completed
Rent a house for 12 enumerators in Bitung	November 2011	12 enumerators in bitung mostly fresgraduate for fisheries academy in bitung, in order to ensure the prot sampling I conducted properly a rent house is required for enumerators shelter.	Enumerators house is available	1,667 WCPFC	Completed
Office for enumerator in Bitung	Jan –Dec 2011	12 enumerators are required to coordinate their work in a representatives place in PPS Bitung. A space room is provided By PPS Bitung to accommodate enumerators activities	Enumerators room and office are available	2,000 In kind	Completed
Office for enumerator in Kendari	Jan –Dec 2011	5 enumerators are required to coordinate their work in a representatives place in PPS KEndari . A space room is provided By PPS KEndari to accommodate enumerators activities	Enumerators room and office are available	1,500 In kind	Completed
Office for enumerator in sodohoa	Jan –Dec 2011	3 enumerators are required to coordinate their work in a representatives place in PPI Sodohoa . A space room is provided By Sodohoa local government to accommodate enumerators activities	Enumerators room and office are available	1,000 In kind	Completed
Scanner	October 2011	Realize the importance of port sampling data available for future	JPEG files of all data from port	944	Completed

		use, It is required to have electronically file from hard print of port sampling forms in JPEG file.	samplign forms is available		
Supervision and data validation					
Supervision on port sampling in Bitung, Sodohoa Kendari	October 2010	RCFMC staff conducted the data validation for Bitung Port Sampling (Berbudi, Anung)	Data validated	4,522	Completed
Data Validation and audit port sampling equipment	August 2011	RCFMC staff conducted the data validation for Bitung Port Sampling (Berbudi, Bayu)	Data validated Report produced	5,633	Completed
Data Validation	October 2011	RCFMC staff conducted the data validation for Bitung Port Sampling (Berbudi, Bayu)	Data validated Report produced	3,150	Completed
Data Validation and Supervision	February 2012	RCFMC staff conducted the data validation for Bitung Port Sampling and report produce	Data validated Report produced <i>(not yet paid)</i> <i>Temporarily using RCFMC budget</i>	3,940	Completed ??
Data Entry	January – February 2011	In order speed up the process of data entry from port samplings. A data entry person was hired. The target to finished all data entry process into the data base system developed by Bayu before the 2 nd eastern Indonesia Tuna Annual Catch Estimates Review Workshop had been accomplished . Those data are able to use in the	Port samplings data in 2010 had been successfully entry into the data base	300	Completed

		workshop.			
Research Inventory	February 2011	Sort of "Research Inventory" for the Pacific tuna research in Indonesia.	Report produced	In kind	Completed
NTC Salary (Dr. Subhat Nurhakim)	July – Dec 2010	As stated in the TOR of NTC (600 USD/month)	Salary Paid	3,600	Completed
NTC Salary (Dr. Subhat Nurhakim)	January-june 2011	As stated in the TOR of NTC and AWP 2011 (600 USD/month)	Salary Paid	3,600	Completed
NTC Salary (Dr. Subhat Nurhakim)	July-oct 2011	As stated in the TOR of NTC and AWP 2011 (600 USD/month)	Salary Paid	2,400	Completed
NTC and Staff Salary (Dr. Fayakun and staff)	Nov-Dec 2011	As stated in the TOR of NTC, AWP 2011 and adjustment salary decided by WCPFC on November 2011	Salary Paid	3,111	Completed
Coordination Meetings: Review of the Second Year AWP and Development of the third year AWP,	Nov 2011	There was some activities relate to consultative meeting, planning, development of AWP, reporting.	Technical report produced. AWP report produced	2698	Completed
A finance and administrative staff.	November 2011	Adjustment of allowance for administrative on a finance staff	Allowance adjustment paid	667	Completed
NTC and Staff Salary (Dr. Fayakun and staff)	January-April 2012	As stated in the TOR of NTC, AWP 2011 and adjustment salary decided by WCPFC on November 2011	Salary Paid	5,600	Completed
NTC and Staff Salary (Dr. Fayakun and staff)	May-August 2012	As stated in the TOR of NTC, AWP 2011 and adjustment salary decided by WCPFC on November 2011	Salary Paid	5,600	Completed
II. CAPACITY BUILDING					
Training on database	1-7 Feb 2010	Participate in SPC's database	Training Report,	3547	Completed

management, Noumea (Bayu)		management training	produced		
Participation at the Stock Assessment and Ecosystem Monitoring Training Workshop, Noumea (Lilis Sadiyah)	7-12 Jun 2010	Participate in SPC's stock assessment and ecosystem monitoring training workshop	Workshop report produced	3,812 WCPFC	Completed
Activity Y2-IDN-11 Participation in Tuna Data WS in SPC (Anung Widodo)	Noumea May 2011	participation in SPC's stock assessment workshop; stock assessment workshop at national level convened; workshop report produced	Workshop Report produced	N/A WCPFC	Completed
Activity Y2-IDN-10 Ecological monitoring and assessment workshop, stock assessment workshop and tuna data workshop 2011 (lilis Sadiyah)	Noumea 27 June – 5 July 2011	Participate in SPC's stock assessment workshop	Workshop Report Produced	5,500 WCPFC	Completed
Local tuna stock assessment workshop	Depok, 2 may 2012	Share knowledge, experience and information of the tuna stock assessment work in the WCPFC area that gathered from Indonesian scientists who participating in tuna data workshop and stock assessment workshop held by SPC, Noumea.	Workshop Report Produced	1,675	Completed
	Dep		In kind contribution	1,000	
III. Management (updated by DGCF by 23 July 2012)					
Review of policy (Y1-08) and legal arrangements for WCPFC-related matters and	Jakarta Aryaduta 15 – 16	Consolidate and review national policy and legal arrangements to determine compliance with the	Report Produced	13,060	Completed

Prepare checklist of compliance shortfalls (Y1-09)	June	requirements of the WCPFC and review the existing legislation related with tuna fisheries management and the WCPFC Convention , checklist of shortcomings in compliance with WCPFC requirements; produce WS report for submission to WCPFC prepare and address a checklist of compliance issues; through PL-WS, finalize evaluation of the checklist and proposed specific shortfalls in relation to the compliance issues against the WCPFC requirements . produce WS reports including WS recommendations to be submitted to Indonesian government and the WCPFC Secretariat			
Development of National Tuna Management Plan	Jakarta 11 November	The purpose of this activity is to assist the government of Indonesian improve National Tuna Management Plan in compliance with requirement of the WCPFC commission	Report Produced	6,400	Completed
Workshop on Establish Tuna Association to fully involve(tuna-related) industry	Jakarta 12 November	To assist he government of Indonesia to facilitate the strengthening of tuna association capacity for cooperation and collaboration between National Tuna Association and provincial Tuna Association more i involving	Report Produced	11,260	Completed

		tuna related industry			
Activity Y2-IDN-04 Tuna Fisheries Profile (by Local Consultant)	January-April 2011	Tuna Fisheries profiles for the Indonesia Fisheries Management Area No. 716 and No.717	Tuna Fisheries Profile	3,000	Complete
Activity Y2-IDN-04 Second Eastern Indonesia Tuna Annual Catch Estimates Review Workshop (2011)	Jakarta Lumire 7-8/April /2011	Progress with producing 2010 Annual catch estimates for Indonesia (WCPFC Area). Catch estimates to be reviewed and evaluated annually	2010 Annual catch estimates for Indonesia (WCPFC Area) Report Produced	6,617.95	Complete
Meeting for Review of the Second Year AWP and Development of the third year AWP	Jakarta, DGCF Meeting Room 21-22 November 2011	Review of the Second Year AWP and Development of the third year AWP	1. Review of the Second Year AWP and Development of the third year AWP 2. Additonal reccomendation related with Activity on the AWP, eg. Log book and observer issues	1,306.48	Complete
Preparatory meeting for WPEA review workshop on policy, legal and institutional arrangements May 2012	Jakarta, DGCF Meeting Room 29 February – 2 March 2012	Preparatory meeting for the WPEA Review Workshops on Policy, Legal and Institutional Arrangements (Project Activity Y2-IDN-13 and Y2-IDN-17)	1. Reccomendatio n related with Activity on the AWP 2. Preparation for the WS on PLI (May 2012)	911	Complete
Data collection and of three	March-April	The arrangement for the	Report Produced:	5,074	Complete

consultancy reports	2012	<p>finalization of three consultancy reports:</p> <ol style="list-style-type: none"> 1. Review of Policy, Legal and Institutional Arrangement for the compliance with WCPFC Requirement (PLI-Report); 2. Review/Completion of Indonesia's National Tuna Management Plan (NTMP); 3. Refinement/Completion of the Consultancy Report to Enhance National-level Tuna Association Activities (National Tuna Association) 	<ol style="list-style-type: none"> 1. Policy, Legal and Institutional Arrangement for the compliance with WCPFC Requirement (PLI-Report); 2. National Tuna Management Plan (NTMP); 3. National Tuna Association Report 		
Review of Tuna Fisheries Profile by local expert	December 2011 – March 2012	<p>The consultancy report of Tuna Fisheries Profile has been finished by the consultant. For the improvement, the report should be review by DGCF and RCFMC to provide detailed comments on the statistics data and contents. The consultant will update the Tuna Fishery Profile based on the reviewer advice.</p>	Review of TFR has been submitted	1,000	Complete
NTC Allowance	November 2011 – April 2012	<p>According to the WPEA Project Document and Annual Work Plan for 2011 and 2012, National Tuna Coordinator (NTC) will be recruited for the implementation of WPEA Project Activities in Indonesia. The NTC is the main contact for this</p>	Report produce	5,400	Complete

		Project and responsible for all activities in the WPEA Annual Work Plan for 2011 and 2012.			
Workshop on the Review of WPEA Consultancy Reports (PLI Issues, Tuna Fisheries Profile, NTMP, National Tuna Association)	Jakarta, DGCF Meeting Room, 7 – 11 May 2012	<p>WCPFC manages WPEA-OFM project and in consultation with the government of Indonesia, WPEA annual work plan for 2011 was agreed. Based on the annual work plan, Indonesia has undertaken consultancies and has produced consultancy reports on:</p> <ol style="list-style-type: none"> 1. Tuna Fishery Profile 2. National Tuna Management Plan 3. National Level Tuna Association. 4. Policy, legal and institutional arrangements <p>Before officially published, it is necessary to review the reports for update and refinement by conducting the workshop to get advice and recommendation from fisheries officer, researcher and tuna association.</p>	Recomendation for improvement of the PLI Report, Tuna Fisheries Profile, NTMP, National Tuna Association	5,587	Complete

IV. Issues and Problems

There are some issues and problems occur during the implementation of the project during June 2011 to June 2012

1. Project document is already expired in February 2012 that administratively affect to the difficulties of finance approval. Therefore it is required to renew the project documents for the next phase of the project.
2. Difficulties in obtaining a valid data in producing tuna fisheries profile, National tuna management Plan and National Tuna Association.

V. Outlook

1. Initiation of Scientific observer program in Bitung (observer recruitment, training and budget)
2. Developing a new port sampling program to cover FMAs 713, 714, 715 within Indonesian archipelagic waters.

Appendix 1. Port sampling results Bitung and Kendari year 2011

Site ANL
Gear LL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
11	2	2	100	7674	5587	151	73	37	2087	45	27	46	0	0	0	0
12	15	15	100	15931	9056	216	57	42	6875	127	43	54	0	0	0	0

Site BMB
Gear PL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
9	1	0	0	15000	0	0	0	0	0	0	0	0	0	0	0	0

Site BMB
Gear PS

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
1	14	11	79	524500	23414	74	4	316	1360	18	0	76	499727	3042	95	164
3	17	16	94	665960	48394	374	7	129	10400	66	2	158	607166	4129	91	147
4	21	19	90	841200	47100	351	6	134	10644	72	1	148	783455	5052	93	155
5	20	12	60	387800	19398	141	5	138	782	6	0	130	367619	3281	95	112
6	13	10	77	289500	13702	78	5	176	109	2	0	55	275689	2831	95	97
7	13	10	77	310000	23844	150	8	159	0	0	0	0	286156	2801	92	102
8	19	12	63	416000	29631	147	7	202	93	3	0	31	386276	3450	93	112
9	24	15	63	523100	41695	167	8	250	69	2	0	34	481336	4181	92	115
10	21	12	57	293000	8448	76	3	111	0	0	0	0	284552	3524	97	81
11	17	8	47	306300	24370	145	8	168	660	3	0	220	281271	2252	92	125
12	22	7	32	439300	14065	37	3	380	3759	9	1	418	421475	2054	96	205

Site BMU
Gear LL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
1	14	12	86	122254	109118	1749	89	62	13136	138	11	95	0	0	0	0
2	5	5	100	48934	42713	672	87	64	6221	69	13	90	0	0	0	0
3	5	5	100	67898	64389	1000	95	64	3509	41	5	86	0	0	0	0
4	4	3	75	32119	30241	469	94	64	1878	22	6	85	0	0	0	0
5	3	3	100	38501	35585	393	92	91	2916	22	8	133	0	0	0	0
6	2	2	100	3326	3070	85	92	36	256	4	8	64	0	0	0	0
7	8	8	100	56801	51700	736	91	70	5101	56	9	91	0	0	0	0
8	2	2	100	10166	9305	250	92	37	861	19	8	45	0	0	0	0
9	5	5	100	20903	19469	515	93	38	1434	28	7	51	0	0	0	0
10	1	1	100	2172	2020	52	93	39	152	3	7	51	0	0	0	0
11	2	2	100	3564	2812	73	79	39	752	13	21	58	0	0	0	0

Site BTG
Gear GL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
10	4	0	0	227000	0	0	0	0	0	0	0	0	0	0	0	0

Site BTG
Gear HL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
5	2	1	50	3746	3429	77	92	45	317	6	8	53	0	0	0	0

Site BTG
Gear PL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
1	9	9	100	96400	2645	49	3	54	1855	55	2	34	91900	2382	95	39
2	12	10	83	81300	3742	92	5	41	3333	96	4	35	74225	2396	91	31
3	21	11	52	154500	6642	95	4	70	4474	79	3	57	143384	2674	93	54
4	22	12	55	59950	1019	43	2	24	1542	51	3	30	57389	2564	96	22
5	17	10	59	116800	5460	98	5	56	4118	99	4	42	107223	2577	92	42
6	11	5	45	57500	1314	38	2	35	962	28	2	34	55224	1225	96	45
7	11	4	36	54500	1015	24	2	42	406	14	1	29	53080	994	97	53
8	10	5	50	68500	4134	52	6	79	2527	51	4	50	61839	1327	90	47
9	9	3	33	73000	2081	21	3	99	795	13	1	61	70125	815	96	86
10	7	6	86	37100	886	33	2	27	620	24	2	26	35595	1545	96	23
11	9	6	67	66000	3297	43	5	77	1944	39	3	50	60758	1357	92	45
12	12	8	67	94500	1831	52	2	35	380	10	0	38	92289	1808	98	51

Site BTG
Gear PLS

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
7	2	0	0	40000	0	0	0	0	0	0	0	0	0	0	0	0
8	2	0	0	301000	0	0	0	0	0	0	0	0	0	0	0	0
9	2	0	0	15500	0	0	0	0	0	0	0	0	0	0	0	0
10	5	0	0	133000	0	0	0	0	0	0	0	0	0	0	0	0
12	2	0	0	110000	0	0	0	0	0	0	0	0	0	0	0	0

Site BTG
Gear PS

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
2	4	0	0	77900	0	0	0	0	0	0	0	0	0	0	0	0
3	1	0	0	5000	0	0	0	0	0	0	0	0	0	0	0	0
4	1	1	100	20000	658	5	3	132	1177	10	6	118	18165	285	91	64
5	3	2	67	61000	1284	11	2	117	2737	17	4	161	56979	552	93	103
6	1	0	0	14000	0	0	0	0	0	0	0	0	0	0	0	0
7	5	3	60	50000	664	17	1	39	155	6	0	26	49181	783	98	63
8	4	2	50	21500	1063	16	5	66	768	18	4	43	19668	536	91	37
9	9	7	78	113000	4423	58	4	76	1330	31	1	43	107247	1904	95	56
10	4	4	100	53000	1786	42	3	43	887	19	2	47	50326	1076	95	47
11	6	2	33	77000	1003	10	1	100	586	8	1	73	75411	539	98	140
12	11	3	27	256500	6930	27	3	257	2857	9	1	317	246713	701	96	352

Site KDI
Gear HL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
1	36	8	22	38799	11094	344	29	32	0	0	0	0	27705	756	71	37
2	20	12	60	15528	4635	471	30	10	230	17	1	14	10663	912	69	12
3	12	4	33	11493	2793	109	24	26	0	0	0	0	8700	291	76	30
4	2	1	50	1709	588	59	34	10	0	0	0	0	1121	100	66	11
10	3	1	33	5576	1858	177	33	10	0	0	0	0	3718	307	67	12
11	21	8	38	30262	11229	810	37	14	882	40	3	22	18152	1135	60	16
12	14	7	50	17467	6943	604	40	11	0	0	0	0	10524	795	60	13

Site KDI
Gear LL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
10	1	0	0	4763	0	0	0	0	0	0	0	0	0	0	0	0

Site KDI
Gear PL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
1	49	5	10	231680	54183	234	23	232	12963	45	6	288	164533	712	71	231
2	66	11	17	264669	69669	350	26	199	18237	78	7	234	176763	772	67	229
3	51	11	22	193266	63428	613	33	103	2650	26	1	102	127188	1018	66	125
4	51	6	12	273232	57516	463	21	124	0	0	0	0	215716	1182	79	183
5	34	2	6	153087	34898	147	23	237	0	0	0	0	118189	439	77	269
6	5	0	0	30039	0	0	0	0	0	0	0	0	0	0	0	0
7	5	1	20	20008	3915	44	20	89	0	0	0	0	16093	152	80	106
8	17	0	0	67400	0	0	0	0	0	0	0	0	0	0	0	0
9	38	3	8	166232	44642	331	27	135	0	0	0	0	121590	767	73	159
10	64	5	8	337332	101155	661	30	153	0	0	0	0	236177	1323	70	179
11	74	7	9	421723	122934	921	29	133	16282	84	4	194	282507	1743	67	162
12	38	5	13	198052	71280	673	36	106	0	0	0	0	126772	1026	64	124

Site KDI
Gear PS

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
1	18	5	28	317708	100397	746	32	135	29226	179	9	163	188085	1176	59	160
2	30	5	17	337748	83051	448	25	185	36388	159	11	229	218309	993	65	220
3	7	3	43	186378	63881	323	34	198	2460	12	1	205	120036	765	64	157
4	7	4	57	172104	51679	346	30	149	3068	11	2	279	117357	849	68	138
5	7	7	100	291534	70549	839	24	84	7273	72	2	101	213711	2240	73	95
6	9	5	56	331600	65022	502	20	130	17255	104	5	166	249323	1660	75	150
7	16	8	50	498785	124938	1035	25	121	5016	29	1	173	368831	2648	74	139
8	16	7	44	616678	145516	800	24	182	17982	75	3	240	453180	2249	73	202
9	19	7	37	777701	198149	979	25	202	46159	234	6	197	533393	2286	69	233
10	17	2	12	626218	151838	311	24	488	34826	45	6	774	439555	811	70	542
11	11	4	36	480352	136188	641	28	212	28421	83	6	342	315743	1261	66	250
12	10	3	30	451104	148473	518	33	287	19165	57	4	336	283466	900	63	315

Site KDI
Gear TR

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
1	5	2	40	15285	1905	45	12	42	0	0	0	0	13380	230	88	58
2	3	1	33	9792	2129	25	22	85	0	0	0	0	7663	75	78	102
3	5	2	40	10821	2897	58	27	50	0	0	0	0	7924	142	73	56
4	16	2	13	55154	10599	121	19	88	0	0	0	0	44555	391	81	114
5	2	0	0	6120	0	0	0	0	0	0	0	0	0	0	0	0
6	3	3	100	7395	1229	85	17	14	0	0	0	0	6166	488	83	13
7	3	2	67	6171	1326	110	21	12	0	0	0	0	4845	341	79	14
8	4	0	0	13561	0	0	0	0	0	0	0	0	0	0	0	0
9	13	4	31	51568	16031	489	31	33	100	1	0	100	35437	909	69	39
10	30	5	17	112304	31104	550	28	57	0	0	0	0	81200	1249	72	65
11	11	1	9	54137	14327	121	26	118	83	1	0	83	39727	262	73	152
12	12	4	33	53563	19200	497	36	39	0	0	0	0	34363	803	64	43

Site NFI
Gear HL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
2	111	11	10	94433	90898	383	96	237	3535	12	4	295	0	0	0	0
3	195	27	14	149523	146644	768	98	191	2879	14	2	206	0	0	0	0
4	247	24	10	173015	168765	697	98	242	4250	13	2	327	0	0	0	0
5	14	14	100	11265	10721	279	95	38	544	10	5	54	0	0	0	0
6	245	24	10	203481	197920	801	97	247	5561	20	3	278	0	0	0	0
7	180	22	12	101269	96691	496	95	195	4578	18	5	254	0	0	0	0
8	145	22	15	63925	60920	406	95	150	3005	16	5	188	0	0	0	0
9	144	28	19	80848	71562	423	89	169	9286	45	11	206	0	0	0	0
10	211	29	14	146116	139681	611	96	229	6435	31	4	208	0	0	0	0
11	203	26	13	132710	130815	549	99	238	1895	8	1	237	0	0	0	0
12	161	19	12	102336	99499	369	97	270	2837	11	3	258	0	0	0	0

Site NFI
Gear LL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ				
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	
2	7	1	14	6682	6682	36	100	186	0	0	0	0	0	0	0	0	0
3	20	2	10	18544	17081	98	92	174	1463	7	8	209	0	0	0	0	0
4	13	0	0	5396	0	0	0	0	0	0	0	0	0	0	0	0	0
5	1	1	100	841	841	20	100	42	0	0	0	0	0	0	0	0	0
6	27	3	11	28491	26559	101	93	263	1932	5	7	386	0	0	0	0	0
7	24	3	13	13311	13144	80	99	164	167	1	1	167	0	0	0	0	0
8	21	2	10	25272	24347	56	96	435	925	2	4	462	0	0	0	0	0
9	7	0	0	10392	0	0	0	0	0	0	0	0	0	0	0	0	0
10	16	1	6	6371	5693	20	89	285	678	2	11	339	0	0	0	0	0
11	19	2	11	21054	20399	69	97	296	655	1	3	655	0	0	0	0	0
12	11	2	18	4249	3316	31	78	107	933	7	22	133	0	0	0	0	0

Site PKN
Gear HL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ				
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	
1	164	23	14	153030	149998	943	98	159	3032	13	2	233	0	0	0	0	0
2	100	17	17	50337	48775	369	97	132	1562	7	3	223	0	0	0	0	0
3	64	8	13	24282	24282	90	100	270	0	0	0	0	0	0	0	0	0
4	61	9	15	20632	20359	131	99	155	273	1	1	273	0	0	0	0	0
5	58	9	16	19404	19092	95	98	201	312	1	2	312	0	0	0	0	0
6	54	9	17	17668	16873	101	96	167	795	3	4	265	0	0	0	0	0
7	51	9	18	14205	13810	87	97	159	395	2	3	197	0	0	0	0	0
8	36	4	11	8263	8263	24	100	344	0	0	0	0	0	0	0	0	0
9	32	3	9	7634	7634	34	100	225	0	0	0	0	0	0	0	0	0
10	45	4	9	12424	11967	68	96	176	457	2	4	229	0	0	0	0	0
11	34	5	15	12464	11442	74	92	155	1022	4	8	256	0	0	0	0	0
12	37	6	16	15643	13263	119	85	111	2380	12	15	198	0	0	0	0	0

Site SDH
Gear HL

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ				
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	
1	42	2	5	28300	8802	26	31	339	0	0	0	0	19498	46	69	424	
2	35	0	0	27400	0	0	0	0	0	0	0	0	0	0	0	0	0
3	22	0	0	15800	0	0	0	0	0	0	0	0	0	0	0	0	0
4	24	0	0	15900	0	0	0	0	0	0	0	0	0	0	0	0	0
5	1	0	0	600	0	0	0	0	0	0	0	0	0	0	0	0	0
8	2	0	0	463	0	0	0	0	0	0	0	0	0	0	0	0	0
10	11	0	0	6570	0	0	0	0	0	0	0	0	0	0	0	0	0
11	42	5	12	38250	7232	32	19	226	1448	3	4	483	29570	120	77	246	
12	63	6	10	60200	17983	53	30	339	1601	4	3	400	40616	107	67	380	

Site SDH

Gear TLH

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
8	54	8	15	63800	35648	144	56	248	9589	20	15	479	18563	82	29	226
9	45	6	13	77200	32974	83	43	397	17717	23	23	770	26509	77	34	344
10	75	13	17	118700	30890	102	26	303	3988	7	3	570	83822	300	71	279
11	38	9	24	62900	22061	101	35	218	3045	8	5	381	37794	187	60	202
12	36	4	11	59800	22056	45	37	490	5244	6	9	874	32500	68	54	478

Site SDH

Gear TR

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
1	56	8	14	79150	3347	102	4	33	74215	46	94	1613	1588	86	2	18
2	55	10	18	94100	14520	156	15	93	74056	35	79	2116	5525	166	6	33
3	57	8	14	77500	27642	121	36	228	22526	54	29	417	27333	163	35	168
4	65	10	15	128800	65399	222	51	295	13540	27	11	501	49861	240	39	208
5	69	10	14	82600	36825	153	45	241	9020	21	11	430	36756	219	44	168
6	64	8	13	81000	41075	141	51	291	1716	24	2	72	38209	108	47	354
7	79	12	15	111900	94035	213	84	441	4437	25	4	177	13428	173	12	78
10	1	0	0	1200	0	0	0	0	0	0	0	0	0	0	0	0

Site SPF

Gear PS

Month	Landings	Samplings	Coverage	TotalCatch	YFT				BET				SKJ			
					Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt	Est Kgs	No	%	Avg Wt
2	19	12	63	1105750	61071	146	6	418	15226	35	1	435	1029453	2919	93	353
3	21	13	62	1335600	83921	157	6	535	15775	24	1	657	1235903	3105	93	398
4	30	20	67	1715000	90424	363	5	249	23818	85	1	280	1600758	5394	93	297
5	29	18	62	1319500	57842	175	4	331	10013	26	1	385	1251645	4362	95	287
6	25	17	68	1048950	52707	179	5	294	7056	22	1	321	989187	4165	94	237
7	26	15	58	1426250	89316	180	6	496	11870	22	1	540	1325065	3698	93	358
8	28	17	61	1693971	758694	711	45	1067	98835	57	6	1734	836442	669	49	1250
9	15	11	73	878708	213990	236	24	907	33112	25	4	1324	631606	620	72	1019
10	41	25	61	3037025	424629	331	14	1283	149730	82	5	1826	2462667	1589	81	1550
11	11	10	91	762188	21168	20	3	1058	14234	9	2	1582	726786	898	95	809