



European Union



Secretariat of the Pacific Community

EU EDF 9 B Scientific Support for Oceanic Fisheries Management in the
Western and Central Pacific Ocean (SCIFISH)

Annual Report Year 4 (2011)

January 2012

Implemented by: Secretariat of the Pacific Community (SPC)
Funded by: 9th European Development Fund B Envelope

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Signature Page:

On behalf of the implementing agency I have pleasure in providing herewith the 2011 annual report.

Date: 3 February 2012

Dr Jimmie Rodgers
Director General
Secretariat of the Pacific Community

Approved by:

Date:

Feleti P. Teo
Deputy Secretary General and
Deputy Regional Authorising Officer
Pacific Islands Forum Secretariat

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1 Background

The SCIFISH project, “Scientific Support for Oceanic Fisheries Management”, implemented through the Contribution Agreements between the Secretariat of the Pacific Community (SPC) the Pacific Islands Forum Secretariat (ACP component) and between SPC and the government of New Caledonia (OCT component), commenced in February 2008 and is scheduled for completion on 31 December 2011. The total budget for the project is 6,605,000 Euros.

The project purpose is to provide a scientific basis for regional and national oceanic fisheries management decision-making by the Western and Central Pacific Fisheries Commission (WCPFC) and by Pacific ACP and OCT Governments.

The overall objective is the conservation and sustainable use of oceanic fish resources of the western and central Pacific Ocean (WCPO).

This report summarizes the activities, achievements and progress towards stated objectives during 2011 and specifies activities completed during the 8th six-month period of the project (1 July – 31 December 2011).

2 Project progress

2.1 Project Administration

SCIFISH has been implemented as per the submitted Year 4 work plan and cost estimate.

2.2 Difficulties and Challenges

Some administrative errors by SPC delayed the approval of the work plan and cost estimate for Year 4. In addition, clarification on audit requirements for the balance of the year 3 budget was required before payment could proceed. These delays impacted the cash flow for the project during 2011. However, the situation was rectified by the end of the year and project activities were not delayed.

2.3 Review of Progress and Performance

The logical framework that guides implementation of SCIFISH is outlined in Figure 1.

The project purpose has been effectively achieved by the end of Year 4, with considerably improved data and information resources in key areas being generated by the project for stock assessments and related analyses. Critical among these have been (i) expanded and enhanced **observer data** now being available largely as a result of the observer coordination and training resources financed by the Project; (ii) expanded **tagging data**, particularly for bigeye tuna, being generated by the project; and (iii) new information on the distribution and abundance of skipjack, bigeye and South Pacific albacore tuna resulting from the further development and application of the **SEAPODYM model**. The observer and tagging data have been incorporated into regional assessments, with resulting improvements in their performance and reliability.

SEAPODYM results are now being used in the development of policy, particularly with regards to spatial allocation of fishing rights within FFA member countries.

The Project has also made a strong contribution towards its objective of conservation and sustainable use of the oceanic fish resources of the western and central Pacific. The enhanced assessments resulting from the project have informed the decision making of the Western and Central Pacific Fisheries Commission (WCPFC) and will continue to make a strong contribution in future because of the durability of the data already collected, and the sustainability of the observer programmes in ACP and OCTs. While more needs to be done, considerable progress has been achieved by WCPFC in limiting fishing mortality of bigeye tuna, the species in most need of management attention. In addition, current assessments and follow-on analyses will greatly assist the development of new measures to manage skipjack and yellowfin tuna. At the national level, the Project made strong contributions to Tuna Management Plans in Cook Islands, Kiribati and Solomon Islands.

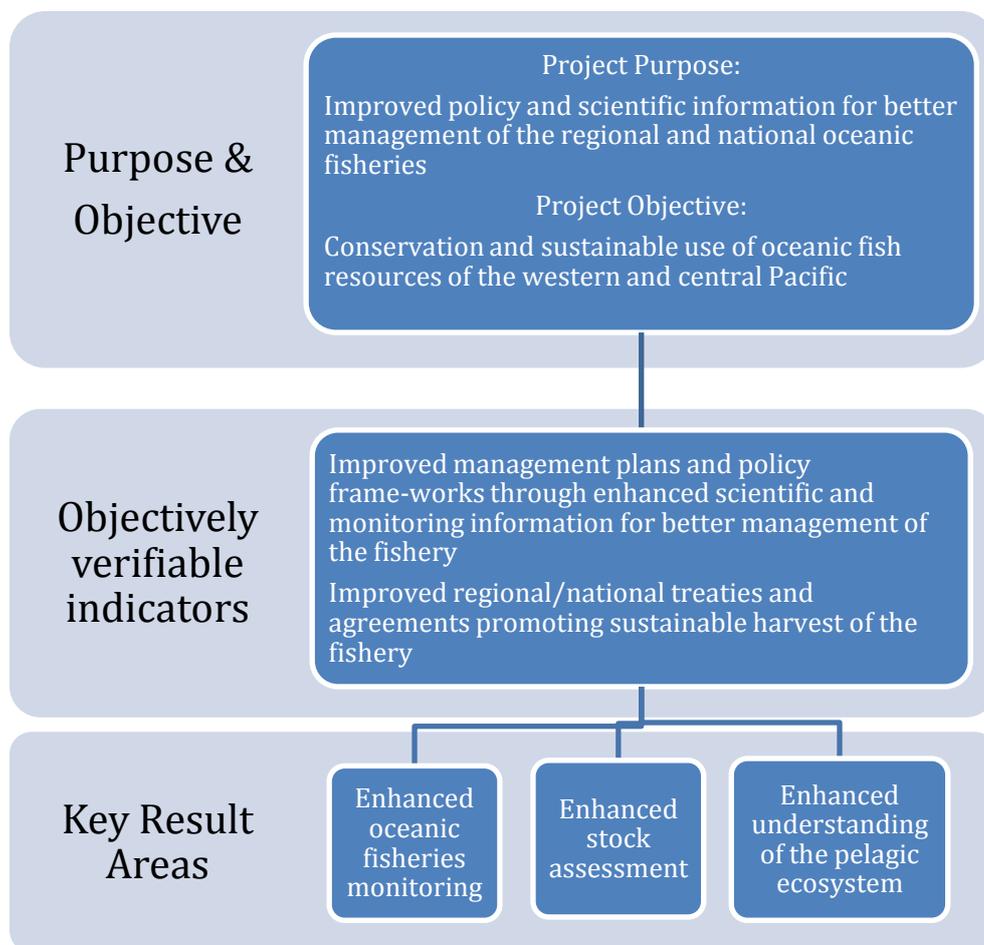


Figure 1. Logical Framework for SCIFISH

The Key Result Areas (KRAs) of the Project are (i) enhanced oceanic fisheries monitoring; (ii) enhanced stock assessment and (iii) enhanced understanding of the pelagic ecosystem. Activities conducted during 2011 contributing to the achievement of these KRAs are summarised in section 2.4.

2.4 Description of Progress Towards Results and Achievements for 2011

2.4.1 ACP Component

PROJECT ACTIVITY				
Result 1: Enhanced Oceanic Fishery Monitoring				
Performance and success indicators	Activity as per Contribution Agreement	Activities 2011	Results to be delivered – quantity, quality and time	2011 Achievements
<ul style="list-style-type: none"> Observer capacity and institutional infrastructure established so that P-ACPs can achieve all of national and regional observer and port sampling coverage and data collection requirements and standards. 100% of P-ACPs provided with capacity and tools for implementing continuous data auditing to maximise data quality for scientific decision making 100% of P-ACPs provided with 	1.1 Observer/port sampling workshops	<ul style="list-style-type: none"> Assessment of future training needs for Observer/Port Sampling Programs. Organisation of Observer Coordinators workshop Develop syllabus for tag seeding, biological sampling and spill sampling training included in observer training courses. 	<ul style="list-style-type: none"> Report via FFC the future training needs for Observer/Port Sampling Programs. 1 Observer Coordinators workshop. Tag seeding, biological sampling and spill sampling training included in 50% of PIRFO training courses 	<ul style="list-style-type: none"> Report on training needs provided to FFC Observer Co-ordinators workshop held in Honiara, June 2011 Biological sampling, tag recovery and seeding, and spill sampling included in all PIRFO approved trainings
	1.2 Training Attachments	No activities planned for Year 4	<ul style="list-style-type: none"> Four P-ACP trainers certified. 	<ul style="list-style-type: none"> Nine P-ACP trainers certified
	1.3 Operational Support for observer/port sampling programs	<ul style="list-style-type: none"> MOUs to facilitate tag recovery 	<ul style="list-style-type: none"> MOUs established with SB,MI, FSM to facilitate tag recovery 	<ul style="list-style-type: none"> MOUs established with FSM, RMI. SB and KI
	1.4 Quality control of observer/port sampling data	<ul style="list-style-type: none"> No activities planned for Year 4 		
	1.5 Develop and trial new technologies for enhancing quality of data and timeliness of data collection	<ul style="list-style-type: none"> Implement spill sampling trials in collaboration with WCPFC 	<ul style="list-style-type: none"> Results of spill sampling trials reported to WCPFC SC7 	<ul style="list-style-type: none"> Analyses completed and results to be presented to WCPFC SC8

capacity, tools and access to information for detecting and managing IUU fishing activities.	1.6 Develop harmonised fisheries monitoring / data sharing protocols (FFA)	<ul style="list-style-type: none"> Develop harmonised regional database templates for the dissemination of MCS information, harmonized Vessel of Interests List, and rating index system to indicate surveillance priority of vessels 	<ul style="list-style-type: none"> Software demonstrated to FFA MCS Working Group 	<ul style="list-style-type: none"> Completed with consultants report under review by FFA
	1.7 Undertake compliance audits and IUU risk assessments (FFA)	<ul style="list-style-type: none"> No activities planned for Year 4 		
	1.8 Develop and implement methodologies to verify fisheries data (SPC-FFA)	<ul style="list-style-type: none"> No activities planned for Year 4 		
	1.9 Develop and trial new technologies, including satellite based technologies for the detection of IUU fishing activities	<ul style="list-style-type: none"> No activities planned for Year 4 		
Result 2: Enhanced Stock Assessment				
<ul style="list-style-type: none"> Establish the most comprehensive tagging dataset for tropical tunas in the WCPO for inclusion in regional stock assessments and analyses of population 	2.1 Large-scale conventional and electronic tagging / biological studies	<ul style="list-style-type: none"> Implement tagging cruises Implement tag seeding program Conduct data processing Implemented tag recovery procedures including the establishment of sub- 	<ul style="list-style-type: none"> 1 PNG tagging cruise completed 1 central Pacific cruise completed Tag reporting rate estimated Database 100% up to date processing conducted 6 sub-regional tag 	<ul style="list-style-type: none"> PNG tagging cruise completed 2 Central Pacific cruises completed Report provided to WCPFC SC7 Report provided to WCPFC SC7 Recovery officers established in FSM, Solomon Islands, Kiribati, Marshall Islands, PNG and

dynamics.		regional tag recovery officers	recovery officers established	Ecuador
	2.2 Analysis of tagging, biological and fishery oceanographic data	<ul style="list-style-type: none"> • Descriptive analyses of tagging data • Statistical analyses of conventional and electronic tags for yellowfin, skipjack and bigeye 	<ul style="list-style-type: none"> • 3 Sub regional reports documenting tagging activities provided to ACP countries via web-based access • 1 Report documenting analysis of population dynamics of yellowfin, skipjack and bigeye from conventional and electronic tags provided to WCPFC. 	<ul style="list-style-type: none"> • Web-based reports available (www.spc.int/tagging) • Report provided to WCPFC SC7 (http://www.wcpfc.int/doc/st-ip-05/pttp-progress-report-and-work-plan-2011-2012)
	2.3 Incorporate data / analytical results into stock assessment models	<ul style="list-style-type: none"> • Prepare tagging data for inclusion in 2011 stock assessments provided to WCPFC 	<ul style="list-style-type: none"> • Tagging data included in 2011 stock assessment as appropriate 	<ul style="list-style-type: none"> • New tagging data incorporated into 2011 assessments for bigeye, skipjack and yellowfin tuna
Result 2: Enhanced Understanding of the Pelagic Ecosystem				
<ul style="list-style-type: none"> • Provide ACPs with infrastructure to evaluate tuna management policies in the context of current and future environmental variability at both the regional and EEZ scales. 	3.1 Ecosystem model development and enhancement	<ul style="list-style-type: none"> • No activities planned for Year 4 	<ul style="list-style-type: none"> • No activities planned for Year 4 	
	3.2 Use of models for research / management applications	<ul style="list-style-type: none"> • Report writing 	<ul style="list-style-type: none"> • 1 report evaluating time-area closures for tropical tuna management • 2 reports documenting EEZ scale oceanographic effects for Kiribati and PNG. 	<ul style="list-style-type: none"> • Report provided to WCPFC SC7 (http://www.wcpfc.int/node/3633) • EEZ scale analyses completed and reports provided to Kiribati and PNG

2.4.2 OCT Component

Over the course of 2011 the focus will be on the following:

PROJECT ACTIVITY															
Result 1: Enhanced Oceanic Fishery Monitoring															
Performance and success indicators	Activity as per Contribution Agreement	Activities 2011	Results to be delivered – quantity, quality and time	2011 Achievements											
<ul style="list-style-type: none"> Observer capacity and institutional infrastructure established so that P-OCTs can achieve 100% of national and regional observer and port sampling coverage and data collection requirements and standards. OCTs provided with an evaluation of the feasibility of applying existing satellite technologies for detecting IUU fishing activities. 	1.1 Observer/port sampling workshops	<ul style="list-style-type: none"> LL observer training course provided to FP. FP coordinator trained in biological sampling coordination and specimen handling. Attend Observer Coordinators Workshop Assessment of improvements in fishery monitoring information due to increased observer and port sampling coverage 	<ul style="list-style-type: none"> 1 LL observer training course provided to FP 100% capacity for biological sampling coordination by National coordinators Participation in Observer Coordinators workshop by FP and NC Report documenting the improvements in fishery monitoring information due to increased observer and port sampling coverage in NC and FP. 	<ul style="list-style-type: none"> 6 FP observers certified for LL National coordinators trained in biological sampling Observer coordinators workshop held in June 2011 in Honiara Report completed and provided to fisheries departments in each territory 											
	1.2 Training Attachments	No activities planned for Year 4													
	1.3 Operational Support for observer/port sampling programs	<ul style="list-style-type: none"> Observer and port sampling support for NC and FP 	<ul style="list-style-type: none"> Minimum of 5% LL observer coverage in FP and NC Minimum of 10% port sampling coverage in NC and FP 	<ul style="list-style-type: none"> The following was achieved for the FP and NC longline fisheries: <table border="1"> <thead> <tr> <th>OCT</th> <th>Total no. trips</th> <th>No. observed</th> <th>No. Port sampled</th> </tr> </thead> <tbody> <tr> <td>NC</td> <td>348</td> <td>22 (7%)</td> <td>172 (50%)</td> </tr> <tr> <td>FP</td> <td>521</td> <td>33 (6%)</td> <td>446 (86%)</td> </tr> </tbody> </table>	OCT	Total no. trips	No. observed	No. Port sampled	NC	348	22 (7%)	172 (50%)	FP	521	33 (6%)
OCT	Total no. trips	No. observed	No. Port sampled												
NC	348	22 (7%)	172 (50%)												
FP	521	33 (6%)	446 (86%)												

				The 5% observer coverage target was achieved for both FP and NC longline fleets, and high rates of port sampling recorded.
	1.4 Quality control of observer/port sampling data	<ul style="list-style-type: none"> No activities planned for Year 4 		
	1.9 Develop and trial new technologies, including satellite based technologies for the detection of IUU fishing activities	<ul style="list-style-type: none"> No activities planned for Year 4 		
Result 2: Enhanced Stock Assessment				
<ul style="list-style-type: none"> Establish the most comprehensive tagging and biological parameter dataset for south Pacific albacore for inclusion in regional stock assessments and analyses of population dynamics. 	2.1 Large-scale conventional and electronic tagging / biological studies	<ul style="list-style-type: none"> Implement albacore tagging. Process data Implement tag recovery -Target sampling on LL vessels completed to fill gaps in gonad and otoliths spatial distribution. Undertake otoliths microchemistry analyses to estimate movement. Analyse muscle/organ isotope and diet to estimate movement. 	<ul style="list-style-type: none"> 1 Albacore tagging cruise completed. Gonad and otoliths sampling completed 30 otoliths analysed for microchemistry content 100 stomachs analysed for diet content and 100 muscle samples analysed for isotope composition. 	<ul style="list-style-type: none"> Albacore tagging cruise not completed due to poor performance of electronic tags from previous tagging cruises. Resources redirected to central Pacific bigeye tagging. Gonad and otolith sampling completed with 3,293 gonads, 2122 otoliths and 277 dorsal fin spines collected across the South Pacific 30 otoliths were analysed for microchemistry content and a draft scientific manuscript has been prepared 18 stomachs were collected in 2011, 68 were examined, 18 muscles were collected, isotope analysis postponed to 2012 on alternative funding
	2.2 Analysis of tagging, biological and fishery oceanographic data	<ul style="list-style-type: none"> Analysis of reproductive & growth biology of albacore Assess the feasibility of otolith microchemistry as to indirectly measure movement 	<ul style="list-style-type: none"> 1 report documenting the reproductive & growth biology of albacore provided to WCPFC. 1 report on vertical movement. 	<ul style="list-style-type: none"> Report on reproductive biology and growth provided to WCPFC SC7 (http://www.wcpfc.int/doc/sa-wp-05/south-pacific-albacore-age-and-reproductive-biology-%E2%80%93-progress-report) and scientific papers are in preparation Papers on vertical movement, otolith

		<p>rates.</p> <ul style="list-style-type: none"> Assess the feasibility of isotope diet mismatch method for estimating movement. 	<ul style="list-style-type: none"> Proof of concept for otolith microchemistry as to indirectly measure movement rates provided to WCPFC. Proof of concept for isotope diet mismatch method for estimating movement provided to WCPFC. 	<p>microchemistry and isotope diet/movement study scheduled for completion in first half of 2012</p>
	2.3 Incorporate data / analytical results into stock assessment models	<ul style="list-style-type: none"> Provide reproductive ogive and growth curves estimated for inclusion in 2011 stock assessments provided to WCPFC 	<ul style="list-style-type: none"> Albacore reproductive ogive and growth curves included in 2011 stock assessment as appropriate. 	<ul style="list-style-type: none"> This has been deferred to the 2012 albacore assessment
Result 3: Enhanced Understanding of the Pelagic Ecosystem				
Provide 100% P-OCTs with infrastructure to evaluate tuna management policies in the context of current and future environmental variability at both the regional and EEZ scales.	3.1 Ecosystem model development and enhancement	<ul style="list-style-type: none"> No activities planned for Year 4 	<ul style="list-style-type: none"> No activities planned for Year 4 	

2.5 Aquittal of Expenditure in Year 4, 1 January to 31 December 2011

SCIFISH YEAR 4 - FINANCIAL SUMMARY OF EXPENDITURE BY ACTIVITIES										
For period 01 January 2011 to 31 December 2011										
ACTIVITIES	YEAR 4 BUDGET		T6 Code	Advance received for year 4		Expenditure for year 4		Balance of Yr 4 Budget remaining		% of year 4 Budget spent
	in CFP	in EUROS		in FCFP	in EUROS	in FCFP	in EUROS	in FCFP	in EUROS	
ACP COMPONENT										
Technical Assistance										
1.1 Port sampling & observer coordination	0	0	SFA011	0	0	0	0	0	0	
1.2 Port sampling & observer trainer	1 676 730	14 051	SFA012	1 341 408	11 241	1 676 782	14 051	(52)	(0)	100,00%
1.3 Tagging Technician	10 112 291	84 741	SFA013	8 089 857	67 793	10 209 783	85 558	(97 492)	(817)	100,96%
1.4 Ecosystem Modeller	6 222 554	52 145	SFA014	4 978 043	41 716	5 915 618	49 573	306 936	2 572	95,07%
1.5 Ecosystem Modelling Services	0	0	SFA015	0	0	0	0	0	0	
MCS Activities										
2.1 Harmonised MCS data sharing protocols	37 226 969	311 962	SFA021	29 781 504	249 569	37 237 912	312 054	(10 943)	(92)	
2.2 Compliance audits, IUU risk assessments	0	0	SFA022	0	0	0	0	0	0	
2.3 Data verification methodologies	0	0	SFA023	0	0	0	0	0	0	
2.4 Satellite detection of IUU fishing pilot	0	0	SFA024	0	0	0	0	0	0	
Travel										
3.1 Port Sampling & Observer	1 344 869	11 270	SFA031	1 075 895	9 016	2 353 845	19 725	(1 008 976)	(8 455)	175,02%
3.2 Tagging	1 080 788	9 057	SFA032	864 678	7 246	0	0	1 080 788	9 057	0,00%
3.3 Ecosystem Modelling	0	0	SFA033	0	0	0	0	0	0	
Equipment										
4.1 Port Sampling & Observer	0	0	SFA041	0	0	0	0	0	0	
4.2 Tagging / biological	4 716 706	39 526	SFA042	3 773 389	31 621	4 861 930	40 743	(145 224)	(1 217)	103,08%
4.3 Computer	483 294	4 050	SFA043	386 635	3 240	317 159	2 658	166 135	1 392	65,62%
Tagging operations										
5.1 Vessel charter / operations	10 162 411	85 161	SFA051	8 129 952	68 129	10 101 539	84 651	60 872	510	99,40%
5.2 Tag rewards, publicity, etc	1 879 236	15 748	SFA052	1 503 341	12 598	1 882 170	15 773	(2 934)	(25)	100,16%
Training										
6.1 Port Sampling & Observer	572 792	4 800	SFA061	458 234	3 840	604 350	5 064	(31 558)	(264)	105,51%
6.2 Stock Assessment	0	0	SFA062	0	0	0	0	0	0	
Observer & Port sampling operations										
7.1 National observer programmes	0	0	SFA071	0	0	2 171	18	(2 171)	(18)	
7.2 National port sampling programmes	0	0	SFA072	0	0	85 804	719	(85 804)	(719)	
Data Processing and IT support										
8.1 Scientific programming support	814 439	6 825	SFA081	651 551	5 460	856 139	7 174	(41 700)	(349)	105,12%
8.2 Data processing support	3 909 666	32 763	SFA082	3 127 685	26 210	3 893 606	32 628	16 060	135	99,59%
Administrative Support / Evaluation	1 883 652	15 785	SFA090	1 506 921	12 628	1 886 093	15 805	(2 441)	(20)	100,13%
SPC Overhead @ 7% of Direct costs	5 316 229	44 550	SFA100	4 252 983	35 640	5 319 902	44 581	(3 673)	(31)	100,07%
CONTINGENCIES	0	0	SFA110	0	0	0	0	0	0	
EVALUATION	0	0	SFA120	0	0	0	0	0	0	
SubTotal ACP Component	87 402 625	732 434		69 922 076	585 947	87 204 803	730 776	197 822	1 658	99,77%
PTOM COMPONENT										
Technical Assistance										
1.1 National Coordinator FP	5 232 936	43 852	SFO011	1 746 778	14 638	2 203 692	18 467	3 029 244	25 385	42,11%
1.2 National Coordinator NC	5 232 936	43 852	SFO012	4 247 375	35 593	5 358 331	44 903	(125 395)	(1 051)	102,40%
1.3 Albacore Biologist	3 724 105	31 208	SFO013	2 989 857	25 055	3 772 007	31 609	(47 902)	(401)	101,29%
1.4 Fisheries Oceanographer	5 871 599	49 204	SFO014	7 179 952	60 168	9 058 144	75 907	(3 186 545)	(26 703)	154,27%
1.5 Ecosystem Modelling Services	0	0	SFO015	0	0	0	0	0	0	
MCS Activities (contracted work)										
2.1 Satellite detection of IUU fishing pilot (NC)	0	0	SFO021	0	0	0	0	0	0	
Travel										
3.1 FP	477 327	4 000	SFO031	1 666 826	13 968	2 102 920	17 622	(1 625 593)	(13 622)	440,56%
3.2 NC	477 327	4 000	SFO032	597	5	675	6	476 652	3 994	0,14%
3.3 WF	0	0	SFO033	62 411	523	78 800	660	(78 800)	(660)	
3.4 Regional	1 815 752	15 216	SFO034	447 613	3 751	564 681	4 732	1 251 071	10 484	31,10%
3.5 Contractor travel	477 327	4 000	SFO035	376 969	3 159	475 542	3 985	1 785	15	99,63%
Equipment										
4.1 Fishery monitoring FP	0	0	SFO041	0	0	0	0	0	0	
4.2 Fishery monitoring NC	0	0	SFO042	0	0	0	0	0	0	
4.3 Fishery monitoring WF	0	0	SFO043	0	0	0	0	0	0	
4.4 Tagging / biological	2 664 678	22 330	SFO044	2 146 062	17 984	2 707 340	22 688	(42 662)	(358)	101,60%
4.5 Computer	56 563	474	SFO045	56 086	470	70 750	593	(14 187)	(119)	125,08%
Tagging operations										
5.1 Vessel charter	3 818 616	32 000	SFO051	2 532 100	21 219	3 194 533	26 770	624 083	5 230	83,66%
5.2 Tag rewards, publicity	59 666	500	SFO052	0	0	0	0	59 666	500	0,00%
5.3 Contract personnel	4 420 286	37 042	SFO053	3 918 735	32 839	4 943 774	41 429	(523 488)	(4 387)	111,84%
Training										
6.1 FP	2 275 179	19 066	SFO061	1 778 878	14 907	2 244 150	18 806	31 029	260	98,64%
6.2 WF	0	0	SFO062	0	0	0	0	0	0	
Observer & Port sampling operations										
7.1 FP Observers	9 504 773	79 650	SFO071	7 309 905	61 257	8 920 916	74 757	583 857	4 893	93,86%
7.2 NC Observers	3 579 952	30 000	SFO072	2 601 671	21 802	3 216 247	26 952	363 705	3 048	89,84%
7.3 WF Observers	0	0	SFO073	0	0	0	0	0	0	
7.4 Port sampling FP	7 482 578	62 704	SFO074	6 034 726	50 571	7 684 424	64 395	(201 846)	(1 691)	102,70%
7.5 Port sampling NC	4 773 270	40 000	SFO075	4 466 826	37 432	5 725 815	47 982	(952 545)	(7 982)	119,96%
Data Processing and IT Support										
Administrative Support	2 627 685	22 020	SFO090	2 114 916	17 723	2 668 170	22 359	(40 485)	(339)	101,54%
SPC Overhead @ 7% of Direct costs	3 153 222	26 424	SFO100	2 502 387	20 970	3 153 221	26 424	1	0	100,00%
CONTINGENCIES	0	0	SFO110	0	0	0	0	0	0	
AUDIT	0	0	SFO120	0	0	3 675	31	(3 675)	(31)	
EVALUATION	0	0	SFO130	0	0	0	0	0	0	
SubTotal PTOM Component	67 725 776	567 542		54 180 668	454 034	68 147 807	571 079	-422 031	-3 537	100,62%
TOTAL	155 128 401	1 299 976		124 102 745	1 039 981	155 352 610	1 301 855	-224 209	-1 879	100,14%


 HERVE DECANOVIC
 FINANCE MANAGER



3 Project Implementation

The Project was implemented by the Oceanic Fisheries Programme (OFP) of the SPC. The OFP has provided overall project support through the OFP Manager and the respective OFP section heads (Data Management, Fisheries Monitoring, Stock Assessment & Modelling and Ecosystem Assessment & Monitoring Sections). Project activities have been well integrated into annual OFP work plans.

The Project Steering Committee (PSC) met during the 2011 SPC Heads of Fisheries (February 2011). The European Commission and the RAOs were invited to attend. SPC acted as the Secretariat for the PSC. The PSC meeting report and other project documents can be accessed on the project web page:

<http://www.spc.int/oceanfish/en/major-projects/scifish/192-scifish-reports>.

4 Report Prepared By:

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