

SciCOFish

SCIENTIFIC SUPPORT FOR THE MANAGEMENT OF COASTAL AND
OCEANIC FISHERIES IN THE PACIFIC ISLANDS REGION

Year 1 Progress report and Year 2 Work Plan



DECEMBER 2010

This project is funded by



This project is implemented by



Signature Page:

On behalf of the implementing agency I have pleasure in providing herewith the 2010 annual report and 2011 annual work plan and cost estimate.

Signed:



Date: 17th December 2010

Dr Jimmie Rodgers
Director-General
Secretariat of the Pacific Community



Seen and noted on behalf of the European Union

Signed:



Date: 19/1/11

Mr Wiepke van der Goot
~~Delegate~~
European Union Delegation to the Pacific

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LIST OF ABBREVIATIONS

ACP	African, Caribbean and Pacific
AWP	Annual Work Plan
AusAID	Australian Government Overseas Aid Program
CEAFM	Community-based Ecosystem Approach to Fisheries Management
CMM	Conservation and Management Measure
DevFish2	Development of sustainable tuna fisheries in Pacific-ACP Countries, phase 2
EC	European Commission
EDF	European Development Fund
EEZ	Exclusive Economic Zone
FAME	Fisheries, Aquaculture, and Marine Ecosystems
FFA	Forum Fisheries Agency
FSM	Federated States of Micronesia
IUU	Illegal, Unregulated and Unreported
JCS	Joint Country Strategy
MCS	Monitoring, Control and Surveillance
NGOs	Non-Governmental Organisations
NTFSR	National Tuna Fisheries Status Report
P-ACP	Pacific-African, Caribbean and Pacific
RAO	Regional Authorizing Officer
RIP EDF 10	Regional Indicative Programme 10 th European Development Fund
ROCW	Regional Observer Coordinators Workshop
RWSA	Region-Wide Stock Assessment
SciCOFish	Scientific support for the management of coastal and oceanic fisheries in the Pacific Islands region
SCIFISH	Scientific Support for Oceanic Fisheries Management in the Western and Central Pacific Ocean
SEAPODYM	Spatial Ecosystem and Population Dynamics Model
SPC	Secretariat of the Pacific Community
SPC HQ	Secretariat of the Pacific Community Headquarters
TA	Technical Assistance
UVC	Underwater Visual Census
WCPFC	Western and Central Pacific Fisheries Commission

INTRODUCTION

The SciCOFish project, « Scientific support, for the management of coastal and oceanic fisheries in the Pacific Islands region », implemented through the Contribution Agreement between the Secretariat of the Pacific Community and European Union, is planned for execution from the 17th of April 2010 to the 3rd of March 2014, with a budget of 8,655,765 Euros.

Its overall objective, the conservation and sustainable use of coastal and oceanic fisheries resources in the P-ACP region, addresses a key aspect of the Regional Indicative Programme, namely, the development of cost-effective solutions for the sustainable management of marine and land-based resources.

It directly responds to the sector context: according to the 2010 SPC study “future of Pacific fisheries”, there are already signs of offshore resources being overfished, with stocks of bigeye tuna being harvested at dangerous levels. Coupled with this are increasing pressures from foreign fishing fleets seeking access to the waters of Pacific Island countries and territories. Some coastal fisheries are already overexploited: it is the case for reef fish around major settlements and invertebrates harvested for export.

The study makes it clear that fisheries agencies at national and regional level need to adapt in the face of the growing complexity of fisheries management. They currently lack the skills and organisation to coordinate policy and ensure the development of sustainable fisheries to feed and support future generations.

The project purpose is to provide a reliable and improved scientific basis for management and decision making in oceanic and coastal fisheries. The project will provide the P-ACP countries with the means to develop efficient management measures, the skills to monitor their effectiveness, and some important tools to combat IUU fishing. A ‘demand-driven’ approach to implementation will ensure that assistance is provided to those countries which are most likely to take up management advice.

This report summarizes the activities during the eight-month period of the project’s first year (April-December 2010). We can note that activities really began in July due to time spent on starting the project, including securing the first transfer of funds and recruitment. It has been prepared with the collaboration of Section heads from the SPC Fisheries, Aquaculture and Marine Ecosystems (FAME) Programme concerned with the SciCOFish project and focuses on the achievements of 2010 activities and progress towards stated objectives:

- Result 1: P-ACP governments, the FFA and the WCPFC are provided with scientific data, modelling, and advice to underpin their management decision making and strategic positioning.
- Result 2: P-ACP governments, private sector and communities are equipped to monitor coastal fisheries to provide scientific advice in support of sustainable management of these resources P-ACP governments, private sector and communities will be provided with technical methods and training to monitor coastal fisheries, scientific advice to inform management decisions, and development of in-country capacity to evaluate their effectiveness.

1. EXECUTIVE SUMMARY

1.1. Human resources

The first step of the project has been the recruitment of the 13 positions required for the SciCOfish project's implementation. As at the 20th of December 2010, 11 of these recruitments have been completed and 2 positions are still in the process of selection (advertisement's closing date in December 2010). This means that the full staff complement will be operational in early 2011. The persons recruited are:

SciCOFish component	SPC Section		Title	Name
1: Oceanic Fisheries	Stock assessment and modeling	1	Fisheries Information Technology Officer	advertised
		2	Fisheries Scientist (bioeconomic modeling)	advertised
		3	Fisheries Economist (bioeconomic modeling) based at FFA	advertised
		4	Fisheries Scientist (national scientific support)	Ashley Williams
	Ecosystem monitoring and assessment	5	Fisheries Scientist (ecosystem modeling)	Jesus Jurado Molina
	Data management	6	Fisheries Data Audit Officer	Bruno Deprez
	Fisheries monitoring	7	Observer Support and Development Coordinator	Peter Sharples
		8	Observer Training and Support Officer (North Pacific)	Manasseh Avicks
		9	Observer Training and Support Officer	Siosifa Fukofuka
2: Coastal Fisheries	Science and management	10	Reef Fisheries Information Manager	Franck Magron
		11	Fisheries Scientist (finfish)	Being Yeeting
		12	Fisheries Scientist (invertebrates)	Kalo Pakoa
3: Coordination	FAME	13	Project administration and communications officer	Anne Lefevvre

1.2. Difficulties and changes

The main difficulty has been the limited time available to implement the 2010 work plan, with some delays in mobilisation. We can note that the estimated expenditure of the year 1 budget has only been used at a level of 34% (not including December expenditure). However, the achievement rate of the planned activities is good and in the case where activities have been postponed, they are planned for early 2011: this is the case for the first project steering committee meeting which will take place in Noumea, February the 28th.

1.3. Main achievements

- ✓ In 2010 began the process of capacity building of 11 observer trainers who should complete their training period in 2011 and be able to organise observer training courses at national level. They are from Kiribati, Marshall Islands, Federated States of Micronesia, Solomon Islands, Vanuatu and Papua New Guinea.
- ✓ SciCOFish project funded the production of an observer training video that will be produced by the Fijian company Pasifika Communications. Siosifa Fukofuka (Observer training and support Officer for SciCOFish project) and cameraman Hurstel Yee were at sea for 12 days in November, including 3 days on a fish carrier and 9 days on the Alpine Rose, a purse seiner owned by Frabelle PNG Ltd. They filmed 13 hours of footage on all observer activities, including the travel to and from the fishing ground. The video will be ready in early 2011.
- ✓ The Fourth Tuna Data Workshop, held at SPC headquarters in April 2010, included an agenda item on auditing tuna fisheries data collection systems. After an introductory presentation on the concepts of auditing fisheries data, participants were tasked with conducting an audit of a simulated port sampling programme using an audit workbook to guide them through the process. This exercise was designed to show how audits could be conducted in their country to ensure continuous improvement in the quality of the data collected for tuna stock assessments.
- ✓ SPC presented a paper on “Bigeye and Yellowfin Analysis of Management Options” to the FFA’s Management Options Consultation in Honiara in November. The regional-wide stock assessments for bigeye, yellowfin, and skipjack tuna was used to predict the impact on catches, catch rates, and stock status of a range of possible management options. The FFA took this information and incorporated economic data to provide countries with the ‘dollar’ impacts of the various options to inform their decision making. This work will continue to evolve in the future.
- ✓ Advice was provided by Ashley Williams (Fisheries Scientist – National Support) to the Solomon Islands Ministry of Fisheries regarding expected daily purse seine catches by various fleets fishing in Solomon island waters. This advice was used by fisheries officials in their access negotiations with bilateral fishing partners in October 2010.
- ✓ Contractual agreement has been finalized with our collaborating partner Collecte Localisation Satellite who will provide modelling support and services to ensure delivery of all expected outcomes. A development component of this work is application of high resolution oceanographic and fishery data which will significantly improve the zooming capabilities of the Seapodym model. The first experiment using Skipjack tuna was successfully implemented in the current reporting period demonstrating the improvements in model prediction that are derived when using higher resolution data for national and regional level analyses.
- ✓ The tuna tagging cruise for 2010 was rescheduled to 2011 to provide for existing tuna tagging activities implemented under the EDF 9 SCIFISH project to be completed before SciCOFish activities commenced.
- ✓ From November the 29th to December the 3rd, a regional workshop was held in Nouméa on the Community based Ecosystem Approach to Fisheries Management (CEAFM), bringing together representatives from national government conservation and fisheries departments and regional and national non-governmental organisations. The outputs from the workshop will help improve service delivery at the community level, with consistent messages being delivered and complementary management and monitoring systems put in place and coordinated. They will also strengthen collaboration and partnerships and take into consideration possible climate change effects and the need for adaptation.

- ✓ The development of local capacity on specific field monitoring techniques and procedures began actively in this project's year 1, with the following activities: 8 persons from Federated States of Micronesia trained on the Underwater visual census (UVC) survey methodologies for finfish, including aquarium fish species; 1 attachment of these persons for a 3 weeks period at SPC HQ to enter and analyse data from finfish/aquarium fish surveys; 5 persons from Kingdom of Tonga trained on Survey methodologies for trochus and sea cucumber invertebrate species.
- ✓ One of the cross-cutting issues of the SciCOFish project is gender equality, to increase the share of benefits from the fisheries sector for women by increasing women's participation in different areas of oceanic and coastal fisheries science and management over the life of the project. To address this, a team of two specialist consultants, Patricia Demmke and Kelvin Passfield, has been contracted by SPC to conduct a gender analysis of the project during the inception phase, and identify specific implementation activities. The study began on the 3rd of November and results will be presented in January 2011.



2. REVIEW OF PROGRESS AND PERFORMANCE

The Seventh Annual Session of the Western and Central Pacific Fisheries Commission (WCPFC) was held in December 2010. Information of the status of tuna stocks, preliminary work on the status of key shark stocks, and a detailed technical evaluation of the implementation and effectiveness of CMM 2008-01 (Conservation and Management Measure for Bigeye and Yellowfin Tuna) were presented to the Session. WCPFC thus had before it the latest scientific information relevant to its deliberations. There were few notable outcomes from the meeting in terms of strengthened measures, however the presentation of this material continues to put pressure on the Commission to take decisions that are consistent with the scientific advice. The Commission did agree on a process to develop a revised CMM 2008-01, and other revised CMMs, during the course of 2012 for adoption at WCPFC 8 in December 2011. Meanwhile, P-ACP states have announced plans to strengthen management measures through licence conditions applied to vessels fishing in their EEZs.

In coastal fisheries, SPC continued to advocate for more effective management controls in a number of fisheries. The beche de mer fishery in Vanuatu was closed during the year to allow stock recovery; the fisheries in Solomon Islands and Papua New Guinea (the two largest in the region) remained closed despite some pressures for re-opening. Interest in developing management plans for a number of major fisheries was shown in several countries.

Additional to this policy context, complementary activities have been initiated in the period, with the starting of the other EDF10 project, DevFish2 and the AusAID project on “Vulnerability and adaptation of coastal fisheries to climate change”. This dynamic climate allowed the SciCOFish project to start in very good condition for implementation of its activities and results assimilation at national levels.

The following description of activities presents the global progress towards SciCOFish overall objective and project purpose, and also the activities planned for year 1 with progress assessed against the work plan (July to December 2010).



2.1. Description of activities

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
<p>Overall objective: conservation and sustainable use of coastal and oceanic fisheries resources in the Pacific Islands region</p> <ul style="list-style-type: none"> • Effort on yellowfin and bigeye tuna reduced to at least the level required to reach Fmsy (the fishing mortality associate with the maximum sustainable yield) or lower, for both species • Tuna discards by purse seiners reduced to less than 1% of catch (<12,000 t) confirmed by 100% observer coverage • At least some management measures adopted in each of 5 	<p>Planned activities for 2010</p>	<p>Progress /issues</p> <ul style="list-style-type: none"> • Yellowfin tuna in the overall WCPFC area is currently estimated to be fished at levels less than MSY. However, there are concerns that exploitation rates may be too high in the equatorial zone, where most of the catch is taken. For bigeye tuna, fishing mortality continues to exceed MSY levels by approximately 50%, and reductions have been recommended on the basis of the assessment. New yellowfin and bigeye assessments will be undertaken by SPC in 2011. • Observer coverage for 2010 is believed to be close to 100%; however, data flows to SPC and data processing have been slowed by lack of resources both in-country and at SPC. This has largely been rectified by the 2011 WCPFC budget and rapid data assimilation in 2011 is expected. Estimates of by-catch and discards will be produced for SC7 in August 2011. • Baseline data being collected in Tonga for trochus and beche-de-mer 	<p>Action required for 2011</p>

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
<p>coastal areas with measurable signs of recovery observed in baseline monitoring (indicators to be established under this project)</p>			
<p>Project purpose: to provide a reliable and improved scientific basis for management advice and decision making in oceanic and coastal fisheries</p> <ul style="list-style-type: none"> • 100% of project stock assessment results for 4 main tuna species accepted by WCPFC Scientific Committee and forwarded to full Commission for decision-making • Observer coverage rates reach regionally-agreed levels by 2012 (100% for purse seine vessels) with no decrease in data quality • At least 5 P-ACP countries adopt coastal fisheries management measures in line with project recommendations 		<ul style="list-style-type: none"> • Skipjack and bigeye stock assessments presented in 2010 were accepted by SC6 and subsequently by the WCPFC. A peer review of the 2009 yellowfin assessment found that assessment to be at the leading edge of international best practice. • Purse seine observer coverage (as indicated by data received at SPC) in 2009 is currently 13.4%, similar to previous years. This is likely to further increase as data back logs are cleared, and will of course increase greatly in 2010 when the 100% coverage became a full-time measure. • Working with both Tonga (inverts) and Pohnpei, FSM (finfish) on management advice 	

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
Result 1: P-ACP governments, the FFA and the WCPFC are provided with scientific data, modeling, and advice to underpin their management decision making and strategic positioning			
1.1. Observer training			
300 observers trained, 10 observer trainers and 10 observer debriefers operational	<ul style="list-style-type: none"> Observer training in FSM and observer debriefer training provided to several north Pacific ACPs Observer coordinators workshop (ROCW) 	<ul style="list-style-type: none"> Basic observer course for all gears in FSM (11/10 to 12/11) for FSM; Marshall Islands, Mauru and Palau: 14 observers and 2 observer trainers trained Assistance for basic observer course for all gears in PNG (1/11 to 2/6/11) “Mini” ROCW in Cairns (22-24/07) Footage for production of training tool, a purse-seine observer training video 	<ul style="list-style-type: none"> Continuation of observer training for all P-ACP countries Continuation of trainers’ training Continuation of debriefers’ training Organisation of ROCW Production of training tools
1.2. Integrated tuna fisheries databases			
National tuna fisheries databases operational in 15 P-ACPs Tuna data audits conducted for at least 10 P-ACPs 14 P-ACP’s report data to WCPFC as per their obligations	<ul style="list-style-type: none"> Procedures developed and documented for national tuna data audits and auditing systems for national port sampling and log sheets programmes trialled in one Pacific ACP National tuna data officer from one ACP country attached to SPC HQ for training 	<ul style="list-style-type: none"> Presentation of dataaudit workbooks for logsheet and port sampling systems Recruitment of the data audit officer (December 2010) 4 national tuna data officers, from Kiribati, Tuvalu and Vanuatu attached to SPC HQ for training 	<ul style="list-style-type: none"> Ensuring, that national databases are operational Systematic in-country audits with data audit officer Reviewing national reporting system to WCPFC to ensure that countries provide their data as per their obligation
1.3. Bioeconomic modeling and national advice			
10 region-wide stock assessments (RWSA) for key tuna species, using the latest updated data, provided to decision-makers during 2010-2013 1 regional and 10 national reports	<ul style="list-style-type: none"> National tuna fishery status report (NTFSR) completed for 2 ACP countries, at least one involving in country stakeholder consultation by project staff and attachment training of national staff at SPC HQ 	<ul style="list-style-type: none"> Samoan NTFSR completed, with national advice on stock assessment NTFSR in progress for 4 other ACP countries (Cook Islands, Solomon Islands, Kiribati and Marshall Islands) 2 RWSA completed for bigeye and skipjack tuna A regional paper produced with FFA, 	<ul style="list-style-type: none"> Continuation of RWSA production for region-wide advice on tuna fishery Continuation of NTFSR production for national advice on tuna fishery Introduction of the bioeconomic advice in the NTFSR

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
providing bioeconomic modelling advice		with bioeconomic modelling advice for bigeye, yellowfin and skipjack tuna)	<ul style="list-style-type: none"> Capacity building at national level on stock assessment
1.4. Ecosystem modeling of management and climate change			
1 regional and 10 national reports (including Timor Leste) providing advice on tuna resource vulnerability to environmental variability including climate change	<ul style="list-style-type: none"> Consultancy work on the SEAPODYM model to further develop the software for the provision of national-level analyses 	<ul style="list-style-type: none"> First experiment using high resolution oceanographic and fishing data for skipjack completed under CLS contract (SEAPODYM development) Ecosystem modeller recruited to prepare outcomes for regional and national advice from 6 February 2011 	<ul style="list-style-type: none"> Model validation experiments for skipjack, bigeye, yellowfin and albacore tuna's required before analyses can be undertaken to characterise vulnerability of tuna resources to environmental variability Drafting and then reviewing of Regional & National report formats to ensure they best meet the needs of ACPs and the SCIOFISH PP First national report drafted and sent for review
1.5. Validate key model parameters through tagging			
5,000 tuna tagged of which 80% are bigeye ¹	<ul style="list-style-type: none"> One-two month tuna tagging cruise focusing on bigeye tuna in the central Pacific 	<ul style="list-style-type: none"> Moved to 2011 	<ul style="list-style-type: none"> Cruise plan (location and timing) and selection of suitable vessel and science staff for cruise Contractual arrangements with charter vessel(s) completed

¹ Suggested indicator: non provided in Contribution Agreement

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
Result 2: P-ACP governments, private sector and communities are equipped to monitor coastal fisheries to provide scientific advice in support of sustainable management of these resources. P-ACP governments, private sector and communities will be provided with technical methods and training to monitor coastal fisheries, scientific advice to inform management decisions, and development of in-country capacity to evaluate their effectiveness.			
2.1. Conduct stakeholder consultation			
Country specific needs prioritised for all P-ACPs	<ul style="list-style-type: none"> Staff will travel to countries to do a needs-assessment of the types of monitoring assistance that is needed to address their specific management needs, with the use of consultant(s) to assist in this process if needed 	<ul style="list-style-type: none"> 8 of 17 current JCS documents have monitoring identified as a priority area, mainly for invertebrates Corresponded with Niue, Samoa and Kiribati to prioritise monitoring needs, plus visits to Vanuatu and Tonga 	<ul style="list-style-type: none"> Incorporate monitoring priorities in future JCS documents Continue to prioritise monitoring needs in other P-ACPs
2.2. Develop local capacity to implement field monitoring protocols			
Standard monitoring protocols implemented and sustained in at least 5 P-ACPs	<ul style="list-style-type: none"> Staff will commence fieldwork when requests are received or identified for specific monitoring or assessment work necessary for making management decisions, with the use of consultant(s) to assist in this process if needed A regional workshop with NGOs and others involved in the collection of coastal fisheries monitoring data covering finfish, invertebrates or habitat At least one national or sub-regional workshop covering monitoring protocols or data collection and analysis Manuals to be produced to cover underwater visual census (UVC) for finfish, and survey methodologies for 	<ul style="list-style-type: none"> Surveys and monitoring of invertebrates identified for Tonga, Vanuatu and for finfish (including aquariums fish) in FSM Training provided in Tonga for trochus and Beche-de-mer surveys, and in Pohnpei for finfish survey methodologies Workshop undertaken in Noumea (29 November to 3 December), with good progress, especially in forming new partnerships 2 week workshops held in both Tonga (inverts) and FSM (finfish) as part of introducing survey methodologies Activity deferred to 2011 to allow for further input to the standardisation of UVC monitoring methodologies 	<ul style="list-style-type: none"> Expand to other P-ACPs Expand to other P-ACPs Need for follow-up workshop for invited experts to develop standardised monitoring methodologies Expand to other P-ACPs Finalise manuals following workshop of experts on UVC survey methodologies

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
	<p>invertebrates. Draft manuals exist from the PROCFish/C and CoFish projects, so these will be reviewed, finalised and published</p>		
<p>Regional data repository maintained and national data provided for backup from at least 5 countries/fisheries</p>	<p>2.3. Develop and implement secondary data collection protocols</p> <ul style="list-style-type: none"> Commence the development of databases modules for specific monitoring approaches that are identified from the workshop or from country needs assessments 	<ul style="list-style-type: none"> Progress made on developing a database module for export data, with a focus on aquariums products, with trials to be undertaken in Fiji, Tonga and Vanuatu to refine and finalise More input required for developing secondary monitoring protocols, so this to be included in expert consultations 	<ul style="list-style-type: none"> Trials to be undertaken in Fiji, Tonga and Vanuatu to test database suitability Include activity in workshop of experts for monitoring methodologies
<p>Assessments and management recommendations given for at least 5 major coastal fisheries</p>	<p>2.4. Develop management advice</p> <ul style="list-style-type: none"> Staff and consultants will be used for developing management advice and/or plans where there is an urgent need and countries are equipped and prepared to do this 	<ul style="list-style-type: none"> Preliminary management advice provided to Tonga prior to survey work and training being undertaken Attachment trainee from FSM undertaking analysis of finfish survey data for management purposes <p>Additional activities</p> <ul style="list-style-type: none"> Attended and participated in IUCN <i>Pomacentridae</i> Red List Workshop- To assess the conservation status of the world's <i>Pomacentridae</i> for inclusion in the Red List of threatened species Attended and participated in National Integrated Coastal Management Framework Development Consultation in Vanuatu Scoping mission to PNG to assess the aquarium fish trade including the management of this sector 	<ul style="list-style-type: none"> Expand to other P-ACPs Encourage more attachment training Add a new heading to cover input to regional initiatives

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
3. Shared project activities			
3.1. Cross-cutting issues			
SciCOFish contribution to environmental sustainability, gender equality, good governance and human rights ¹	<ul style="list-style-type: none"> Gender analysis of the project 	<ul style="list-style-type: none"> Gender analysis study on going. First results presented in December 	<ul style="list-style-type: none"> Convert gender analysis results on inputs for 2011 and next AWP
3.2. Coordination			
SciCOFish project run efficiently in terms of time and resources ¹	<ul style="list-style-type: none"> SciCOFish steering committee meeting Visit to East Timor to identify opportunities for SciCOFish engagement Project reports and 2011 workplans 	<ul style="list-style-type: none"> Moved to February 2011, on the occasion of the SPC Heads of Fisheries meeting Needs and priorities identified with the Fisheries Department from East Timor on the occasion of visit of FAME director (Oct) and visit of Fisheries Officers at SPC HQ (Nov). Actual 2010 annual project report and 2011 annual work plan 	<ul style="list-style-type: none"> Held of SciCOFish steering committee meeting Engagement of activities with Timor Leste Continuation of following of activities in terms of finances and plan
3.3. Dissemination of results			
Project results presented to ACP as tools –for fisheries management and decision making- and adopted ¹	<ul style="list-style-type: none"> Communication on Scicofish activities Promotion of EU visibility 	<ul style="list-style-type: none"> Publication of 15 articles on SciCOFish activities on the SPC website, SPC fisheries Newsletter, Business Island magazine Sending of 2 press releases, relayed on press web sites and 2 radios Production of promotional items for EU visibility 	<ul style="list-style-type: none"> Communication on Scicofish activities Communication on Scicofish results Promotion of EU visibility

¹ Suggested indicator: non provided in Contribution Agreement

2.2. Resources and budget

This table is the finance statement for SciCOFish Year1, from June to the 31th of December 2010.

ACTIVITIES	YEAR 1 BUDGET		Advance for year 1		Expenditure for year 1		Balance of advance (commit included)		% of initial advance spent		Balance of Yr. 1 Budget remaining		% of year 1 Budget spent	
	in CFP	in EUROS	in FCFP	in EUROS	in FCFP	in EUROS	in FCFP	in EUROS	in FCFP	in EUROS	in FCFP	in EUROS	in FCFP	in EUROS
A-Staff costs	45,346,062	380,000	40,811,456	342,000	30,888,824	258,848	9,922,628	83,152	14,457,233	121,152	76%	14,457,233	121,152	68%
B-Travel and subsistence costs	22,673,031	190,000	20,405,728	171,000	5,010,340	41,987	15,395,382	129,013	17,662,685	148,013	25%	17,662,685	148,013	22%
C-Training costs	22,374,702	187,500	20,137,232	168,750	13,771,387	115,404	6,365,842	53,346	8,603,312	72,096	68%	8,603,312	72,096	62%
D-Equipment	16,109,785	135,000	14,498,807	121,500	4,920,013	41,230	9,578,790	80,270	11,189,768	93,770	34%	11,189,768	93,770	31%
E-Consumables	4,773,270	40,000	4,295,943	36,000	900,369	7,545	3,395,573	28,455	3,872,899	32,455	21%	3,872,899	32,455	19%
F-Sub-contract / consultancies	13,484,487	113,000	12,136,038	101,700	6,170,269	51,707	5,965,767	49,993	7,314,215	61,293	51%	7,314,215	61,293	46%
G-Fieldwork costs	23,269,690	195,000	20,942,721	175,500	2,786,888	23,354	18,155,825	152,146	20,482,793	171,646	13%	20,482,793	171,646	12%
H-Result dissemination, visibility	9,844,869	82,500	8,860,382	74,250	4,195,308	35,157	4,665,072	39,093	5,649,559	47,343	47%	5,649,559	47,343	43%
I-Eligible indirect costs	11,051,313	92,610	9,946,178	83,349	4,810,093	40,309	5,136,085	43,040	6,241,216	52,301	48%	6,241,216	52,301	44%
TOTAL	168,927,208	1,415,610	152,034,484	1,274,049	73,453,491	615,440	78,580,965	658,509	95,473,680	800,070	48%	95,473,680	800,070	43%

3. 2011 ANNUAL WORK PLAN

2011 will be the first full year of the project, with all technical staff on board. Considerable progress in implementing activities that will help to achieve the project purpose is anticipated.

3.1. Activities

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
<p>Overall objective: conservation and sustainable use of coastal and oceanic fisheries resources in the Pacific Islands region</p> <ul style="list-style-type: none"> • Effort on yellowfin and bigeye tuna reduced to at least the level required to reach Fmsy (the fishing mortality associate with the maximum sustainable yield) or lower, for both species • Tuna discards by purse seiners reduced to less than 1% of catch (<12,000 t) confirmed by 100% observer coverage • At least some management measures adopted in each of 5 coastal areas with measurable signs of recovery observed in baseline monitoring (indicators to be established under this project) 			

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
<p>Project purpose: to provide a reliable and improved scientific basis for management advice and decision making in oceanic and coastal fisheries</p> <ul style="list-style-type: none"> • 100% of project stock assessment results for 4 main tuna species accepted by WCPFC Scientific Committee and forwarded to full Commission for decision-making • Observer coverage rates reach regionally-agreed levels by 2012 (100% for purse seine vessels) with no decrease in data quality • At least 5 P-ACP countries adopt coastal fisheries management measures in line with project recommendations 			

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
Result 1: P-ACP governments, the FFA and the WCPFC are provided with scientific data, modeling, and advice to underpin their management decision making and strategic positioning			
1.1. Observer training			
300 observers trained, 10 observer trainers and 10 observer debriefers operational	<ul style="list-style-type: none"> • Continuation of observer training for all P-ACP countries • Continuation of trainers' training • Continuation of debriefers' training • Organisation of ROCW • Production of training tools 	<ul style="list-style-type: none"> • 11 observer training courses for observers from 14 ACP countries • Continuation of 12 trainers' training from Kiribati, Marshall Islands, FSM and Solomon Islands • Debriefing training workshop for 13 participants at SPC HQ • 2 PNG debriefing and debriefer trainings • 1 assistance to FSM with debriefing and debriefer training • Organisation of ROCW • Production of training tool, a long-line observer training video 	<ul style="list-style-type: none"> • Quarter 1 to 4 • Quarter 1 to 4 • Quarter 1 • Quarter 2 and 3 • Quarter 2 • Quarter 1 • Quarter 3
1.2. Integrated tuna fisheries databases			
National tuna fisheries databases operational in 15 P-ACPs Tuna data audits conducted for at least 10 P-ACPs 14 P-ACP's report data to WCPFC as per their obligations	<ul style="list-style-type: none"> • Ensuring that national databases are operational • Systematic in-country audits with data audit officer • Reviewing national reporting system to WCPFC to ensure that countries provide their data as per their obligation 	<ul style="list-style-type: none"> • 4 in-country visits and servicing other countries remotely (through internet support and e-mail communications) • 3 national data system audits • 14 P-ACP's reviewed to provide WCPFC with data before April the 30th 	<ul style="list-style-type: none"> • Quarter 1 to 4 • Quarter 1 to 4 • Quarter 1 and 2

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
<p>10 region-wide stock assessments for key tuna species, using the latest updated data, provided to decision-makers during 2010-2013</p> <p>1 regional and 10 national reports providing bioeconomic modelling advice</p>	<p>1.3. Bioeconomic modeling and national advice</p> <ul style="list-style-type: none"> Continuation of RWSA production for region-wide advice on tuna fishery Continuation of NTFSR production for national advice on tuna fishery Introduction of the bioeconomic advice in the NTFSR Capacity building at national level on stock assessment 	<ul style="list-style-type: none"> Recruitment of the bioeconomic modeller who will help to produce 3 more NTFSR with bioeconomic advice 1 regional tuna fishery status report 3 RWSA for bigeye, yellowfin and skipjack tuna Country visit and attachment training at SPC HQ for Cook Islands 	<ul style="list-style-type: none"> Quarter 1 Quarter 3 Quarter 2,3 and 4 Quarter 1
<p>1 regional and 10 national reports (including Timor Leste) providing advice on tuna resource vulnerability to environmental variability including climate change</p>	<p>1.4. Ecosystem modeling of management and climate change</p> <ul style="list-style-type: none"> Use of SEAPODYM to estimate the response at the regional and national levels to exploitation, management intervention and environmental variability Continuation of reports production for providing advice on tuna resource vulnerability to environmental variability 	<ul style="list-style-type: none"> Model validation experiments for skipjack, bigeye, yellowfin and albacore tuna's completed Draft of Regional Report to be completed and sent for review First national report drafted and sent for review 	<ul style="list-style-type: none"> Quarter 1-2 Quarters 3 to4 Quarters 3 and 4
<p>5,000 tuna tagged of which 80% are bigeye¹</p>	<p>1.5. Validate key model parameters through tagging</p> <ul style="list-style-type: none"> One-two month tuna tagging cruise focusing on bigeye tuna in the central Pacific Implementation of tag recovery procedures 	<ul style="list-style-type: none"> Incorporation of releases and recoveries into database for inclusion in stock assessment Information paper provided to the WCPFC on cruise achievements. 	<ul style="list-style-type: none"> Quarter 1-3 Quarters 3

¹ Suggested indicator: non provided in Contribution Agreement

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
Result 2: P-ACP governments, private sector and communities are equipped to monitor coastal fisheries to provide scientific advice in support of sustainable management of these resources. : P-ACP governments, private sector and communities will be provided with technical methods and training to monitor coastal fisheries, scientific advice to inform management decisions and development of in-country capacity to evaluate their effectiveness.			
Country specific needs prioritised for all P-ACPs	<p style="text-align: center;">2.1. Conduct stakeholder consultation</p> <ul style="list-style-type: none"> • Travel or correspond with at least 5 countries to identify management and monitoring needs and prioritise these • Incorporate management and monitoring priorities in at least 2 joint country strategy documents 	<ul style="list-style-type: none"> • Matrix of priority activities produced for at least 5 countries • Two JCS documents incorporate management and monitoring priorities 	<ul style="list-style-type: none"> • 1 country in quarter 1, 2 in quarter 2 and 2 in quarter 3 • 1 country in quarter 2 and 1 in quarter 3
Standard monitoring protocols implemented and sustained in at least 5 P-ACPs	<p style="text-align: center;">2.2. Develop local capacity to implement field monitoring protocols</p> <ul style="list-style-type: none"> • Undertake at least 2 national workshops/trainings on finfish UVC methodologies • Undertake at least 3 national workshops/trainings on invertebrate survey methodologies • Hold a workshop of invited experts to develop standards for different survey methodologies • Finalise and publish a finfish UVC manual incorporating standards from workshop of experts • Finalise and publish an invertebrate survey methodology manual incorporating outcomes of workshop of experts • Develop draft survey manuals for market and/or creel surveys following the workshop of experts • Field test the new market and/or 	<p style="text-align: center;">2.2. Develop local capacity to implement field monitoring protocols</p> <ul style="list-style-type: none"> • A minimum of 12 country staff trained and competent in conducting finfish UVC surveys • A minimum of 18 country staff trained and competent in conducting invertebrate surveys. • Agreement on standards for different survey methodologies • Manual produced and distributed in the region • Manual produced and distributed in the region • Drafts of 1 or 2 manuals covering market and/or creel surveys • Manuals trialled and modified as 	<ul style="list-style-type: none"> • 1 country in each of quarters 2, 3 and 4. • 1 country in each quarter • Workshop held in quarter 2 • Manual finalised in quarter 3 • Manual finalised in quarter 4 • Draft manuals produced in quarters 3 and 4 • Field testing in quarter 4

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
	creel survey in 2 countries and assess the methodology	necessary	
Regional data repository maintained and national data provided for backup from at least 5 countries/fisheries	<p>2.3. Develop and implement secondary data collection protocols</p> <ul style="list-style-type: none"> Regional database module for export data developed Export database module trialled in three countries with national databases established Database module for market and/or creel surveys developed and tested Database module for catch and effort of nearshore and coastal fisheries data developed and trialled Integration of current coastal fisheries management and monitoring document database into the new SPC document management system National export data provided by at least 1 country National data from monitoring training and subsequent surveys provided from at least 1 country 	<p>2.3. Develop and implement secondary data collection protocols</p> <ul style="list-style-type: none"> Operational database module for export data Database modified in line with results from trials Operational database module for market and/or creel surveys Database module under construction for catch and effort data All monitoring and management documents integrated in new system National export data backed up at SPC for 1 country National monitoring and survey data backed up at SPC for 1 country 	<ul style="list-style-type: none"> Quarter 1 Quarter 2 Quarter 3 Quarter 4 Quarter 3 and 4 Quarter 3 Quarter 4
	<p>2.4. Develop management advice</p> <ul style="list-style-type: none"> Assessment of finfish monitoring and/or survey data undertaken for 2 countries and management advice provided Assessment of invertebrate survey and/or monitoring data undertaken for 3 countries and management advice provided Attachments from at least 3 countries 	<p>2.4. Develop management advice</p> <ul style="list-style-type: none"> Management advice/recommendations for finfish fisheries in 2 countries provided Management advice/recommendations for invertebrate fisheries in 3 countries provided Three national staff trained in data 	<ul style="list-style-type: none"> Quarter 2 and 4 Quarter 2, 3 and 4 Quarter 2, 3 and 4

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
	undertake training and analysis of their data at SPC for developing management arrangements <ul style="list-style-type: none"> Participate in regional and international meetings covering coastal fisheries monitoring and/or management 	analysis and interpretation of data for management advice <ul style="list-style-type: none"> Regional and international meetings attended as needed 	<ul style="list-style-type: none"> As needed during the year.
3. Shared project activities			
3.1. Cross-cutting issues			
SciCOFish contribution to environmental sustainability, gender equality, good governance and human rights ¹	<ul style="list-style-type: none"> Convert gender analysis results on inputs for 2011 and next AWP 	<ul style="list-style-type: none"> Use of gender toolkit for SciCOFish activities 	<ul style="list-style-type: none"> Quarter 2 and 3
3.2. Coordination			
SciCOFish project run efficiently in terms of time and resources ¹	<ul style="list-style-type: none"> Held of SciCOFish steering committee meeting Engagement of activities with Timor Leste Continuation of following of activities in terms of finances and plan 	<ul style="list-style-type: none"> Validation of overall direction and policy of the project Introduction of Timor activities in components 1 and 2 work plans for 2011 and next years Project reports and 2012 workplan 	<ul style="list-style-type: none"> Quarter 1 Quarter 1 Quarter 4
3.3. Dissemination of results			
Project results presented to ACP as tools –for fisheries management and decision making- and adopted ¹	<ul style="list-style-type: none"> Communication on Scicofish activities Communication on Scicofish results 	<ul style="list-style-type: none"> At least 25 articles on SciCOFish activities published on the SPC website and SPC fisheries Newsletter At least 2 press releases sent to media Distribution of promotional items for 	<ul style="list-style-type: none"> Continued activities all over the year

¹ Suggested indicator: non provided in Contribution Agreement

Performance and success indicators Target 2014	Activities 2011 <ul style="list-style-type: none"> • Promotion of EU visibility 	Results to be delivered – quantity, quality and time training, workshop and use of project equipment	2011 activity schedule
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3.2. Finance

SCICOFISH YEAR 2 FINANCIAL SUMMARY OF WORK PLAN

For period 1 January 2011 to 31 December 2011

ACTIVITIES	YEAR 2 BUDGET	
	in CFP	in EUROS
A- Staff costs	161,694,454	1,355,000
B- Travel and subsistence costs	31,026,242	260,000
C- Training costs	30,429,584	255,000
D- Equipment	7,159,902	60,000
E- Consumables	5,966,585	50,000
F- Sub-contract / consultancies	19,451,067	163,000
G- Fieldwork costs	23,269,682	195,000
H- Dissemination of results, visibility	9,844,865	82,500
Total direct costs	288,842,380	2,420,500
I- Eligible indirect costs	20,218,967	169,435
TOTAL	309,061,346	2,589,935