

SciCOFish

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

First Steering Committee meeting report



Noumea, 28 February 2011

This project is funded by



This project is implemented by



The representatives of the P-ACP countries and a representative from Timor-Leste met on 28 February 2011 at the SPC Conference Center in Noumea, to hold the first Steering Committee of the EU-funded SciCOFish project.

The project Steering Committee was made of:

P-ACP representatives	
1. Koroa Raumea	Cook Islands
2. Valentin A. Martin	Federated States of Micronesia
3. Sanaila Naqali	Fiji
4. Beero Tioti	Kiribati
5. Monte Depaune	Nauru
6. James Tafatu	Niue
7. Leban Gisawa	Papua New Guinea
8. Atonio P. Mulipola	Samoa
9. Joao Xavier Amaral	Timor-Leste
10. Sione Vailala Matoto	Tonga
11. Samasoni Finikaso	Tuvalu
12. Moses Amos	Vanuatu
Other members	
13. Jerry Huekwahin	Representative of the Regional Authorizing Officer, P.I.F.S
14. Mike Batty	Project supervisor
15. Anne Lefevre	Project administrator

The following observers involved in the project attended:

16. Benjamin Vives	Representative of the Head of Delegation of the EC for the Pacific
17. Lindsay Chapman	SPC Coastal Fisheries Programme Manager
18. John Hampton	SPC Oceanic Fisheries Programme Manager
SciCOFish staff	
19. Being Yeeting	Fisheries Scientist (finfish)
20. Kalo Pakoa	Fisheries Scientist (invertebrates)
21. Franck Magron	Reef Fisheries Information Manager
22. Ashley Williams	Fisheries Scientist (national scientific support)
23. Jesus Jurado Molina	Fisheries Scientist (ecosystem modelling)
24. Bruno Deprez	Fisheries Data Audit Officer
25. Peter Sharples	Observer support and development Coordinator
26. Siosifa Fukofuka	Observer training and support Officer

Other SPC and FFA members, regional organizations, and SPC staff also attended, as observers.

The participants had been provided with background documents: a brief SciCOFish project description, the “SciCOFish 2010 work plan and cost estimate” and the “Year 1 progress report and year 2 work plan”.

Brief on project design and status

After the Fiji delegate opened the Steering Committee with a prayer, Mike Batty, Director of the Fisheries, Aquaculture and Marine Ecosystem Division and SciCOFish project supervisor, commenced the meeting with a presentation on the support of European Union for the Pacific region, particularly through the 3 actual projects concerning SPC FAME Division work: SciCOFish, DevFish2 and Scifish.

He explained that the purpose of the steering committee is to give the P-ACP representatives and other steering committee members an overview of the SciCOFish Project and its expected results, to advise them on the 2010 activities and to receive guidance from countries to identify the priorities for 2011 (year 2 of the project) work programme.

SciCOFish coastal fisheries component – Component 2

After the confirmation of Mike Batty as Chairman, Lindsay Chapman, Coastal Fisheries Programme Manager, presented the 2010 activities of the SciCOFish project's component 2 and the planned activities for 2011. The objective of component 2 is that 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.

All participants welcomed the evolution of the SciCOFish work to national capacity building, allowing national staff to undertake surveys and analyses themselves. The countries that benefited from capacity building on invertebrates, finfish or aquarium fisheries assessment in 2010 confirmed the high value of this kind of technical assistance.

Requests for future assistance to be included in work plans have been submitted and could be summarised as:

➤ **Request 1:** assistance on invertebrates' assessment, especially for sea cucumbers, leading to management advice has been sought particularly by Vanuatu, Tuvalu, Nauru, Samoa and Cook Islands.

➤ **Request 2:** representatives expressed interest for capacity building on aquarium fisheries management (Vanuatu, Tuvalu, PNG and Tonga) and finfish (Nauru, Samoa and Cook Islands).

Concerning these 2 requests, it has been decided that SPC staff and representatives should meet during the week to identify exact country needs and to plan the schedule for future work plans, as the SPC Coastal Fisheries Programme can only assist 3 or 4 countries per year on each technical issue (finfish, invertebrates and aquarium fish).

➤ **Request 3:** representatives expressed interest for assistance on databases management and export data (FSM and Kiribati)- on fish aquarium trade (PNG) and -catch and effort (PNG).

➤ **Request 4:** various countries asked if it was possible to provide assistance and advice with socio-economic assessment (Samoa and Nauru).

➤ **Request 5:** Kiribati, Niue, Timor-Leste and Nauru are interested in the implementation of scholarships and training to balance the possible lack of technical knowledge in countries. This is an activity that was not initially planned under the SciCOFish project and CFP will think about how to accommodate this request.

➤ **Request 6:** Vanuatu asked if assistance on reviewing national policies and legislation could be provided under the SciCOFish project. This could not be provided under the SciCOFish project, but could be provided through other CFP activities.

➤ **Request 7:** assistance on capacity building was sought on stock assessment and data analysis for deep water snapper (Vanuatu and Samoa).

➤ **Request 8:** The results of the gender analysis were welcomed and the representatives expressed their interest in implementing the recommendations of the study, as a cross-cutting issue of the SciCOFish project. SPC proposed it would implement these recommendations through the 2011 work plan and work plans for future years.

There were a range of other requests covering export of tuna and capacity building in this area: fish aggregation device (FAD) assistance, assistance to the private sector for tuna fisheries, and tools for monitoring control and surveillance issues. It was suggested that most of these activities could be picked up under the Devfish2 project.

SciCOFish oceanic fisheries component – Component 1

“Pacific ACP governments, the FFA and the WCPFC will be provided with scientific data, modeling and advice on oceanic fisheries to underpin their management decision making and strategic positioning” is the expected result of the SciCOFish component 1. John Hampton, Oceanic Fisheries Programme Manager, presented the logframe and indicators related to this result of the SciCOFish component 1 and achievements of the 2010 work plan and expected achievements of the draft 2011 plan.

Niue and Tuvalu thanked the OFP for the utility of TUFMAN software, noting its use in generating information reports for Ministers. Vanuatu also noted the positive capacity building they benefited from on stock assessment, and FSM stressed the good collaboration with SPC for observer data entry at national level.

All representatives had questions and comments that will help refine the 2011 work plan.

➤ **Request 9:** technical assistance for observer training was sought (Vanuatu, Tuvalu, FSM and Timor-Leste). OFP will respond to these requests and additional training will now also focus on longline fishing to take into account the requirements to increase observer coverage of longline vessels. Countries also supported the approach of training observer trainers.

➤ **Request 10:** interest was confirmed on recording of by-catch and discards (Niue), which is a key indicator of the SciCOFish project, and is related also to the observer program in that it is the only way to collect data on by-catch and discards.

➤ **Request 11:** Timor-Leste expressed its national needs on advice for the finalization of a Fisheries management plan and on capacity building for the use of OFP software (TUFMAN) for tuna fisheries management.

➤ **Request 12:** countries (Cook Islands and Tuvalu) are particularly interested in ecosystem modeling and climate change and wish to see SEAPODYM applied to this issue as soon as possible.

➤ **Request 13:** update of National Tuna Fisheries Status Report has been requested (Niue) and the new concept of OFP concerning these reports should answer this need.

➤ **Request 14:** Niue asked for advice on skipjack range contraction.

➤ **Request 15:** it was asked if, in terms of capacity building, OFP could propose formal qualifications as well as attachments (Samoa).

- **Request 16:** Vanuatu wishes to see data management systems for artisanal tuna fishing.
- **Request 17:** American Samoa, as observer, asked for assistance on stock assessment and it was confirmed they could benefit indirectly from the project.

SciCOFish Steering Committee conclusion

The SciCOFish Steering Committee approved the 2011 Work Programme, subject to the above suggestions that will be incorporated as far as the budget allows. It was agreed that the requests from the countries could also be included in the next years work plans and that representatives would meet SPC specialists during the following week to specify their needs and plan the activities.

After about 3 hours of presentations and discussions the SciCOFish Steering Committee meeting was declared closed.

ANNEX 1: description of activities 2010

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 coastal areas with measurable signs of recovery observed in baseline monitoring (indicators to be established under this project) 		<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 	

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
<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 	
<p>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</p>			
<p>1.1. Observer training</p>			
<p>300 observers trained, 10 observer trainers and 10 observer debriefers operational</p>	<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 26/11) • “Mini” ROCW in Cairns (22-24/07) • Footage for production of training tool, a 	<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

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
		purse-seine observer training video	
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	<p style="text-align: center;">1.2. Integrated tuna fisheries databases</p> <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
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 providing bioeconomic modelling advice	<p style="text-align: center;">1.3. Bioeconomic modeling and national advice</p> <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"> Samoa 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, with bioeconomic modelling advice for bigeye, yellowfin and skipjack tuna) 	<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
1 regional and 10 national reports (including Timor Leste) providing advice on tuna resource vulnerability to environmental variability including climate change	<p style="text-align: center;">1.4. Ecosystem modeling of management and climate change</p> <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

Performance and success indicators Target 2014	Planned activities for 2010	Progress /issues	Action required for 2011
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
<p>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.</p>			
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 	<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 	<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

¹ Suggested indicator: non provided in Contribution Agreement

<p>Performance and success indicators Target 2014</p>	<p>Planned activities for 2010</p> <ul style="list-style-type: none"> 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 invertebrates. Draft manuals exist from the PROCFish/C and CoFish projects, so these will be reviewed, finalised and published 	<p>Progress /issues</p> <ul style="list-style-type: none"> 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 	<p>Action required for 2011</p> <ul style="list-style-type: none"> Expand to other P-ACPs Finalise manuals following workshop of experts on UVC survey methodologies
<p>2.3. Develop and implement secondary data collection protocols</p>			
<p>Regional data repository maintained and national data provided for backup from at least 5 countries/fisheries</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>2.4. Develop management advice</p>			
<p>Assessments and management recommendations given for at least 5 major coastal fisheries</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 Consultation Framework Development Consultation 	<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
		<ul style="list-style-type: none"> in Vanuatu Scoping mission to PNG to assess the aquarium fish trade including the management of this sector 	
3. Shared project activities			
3.1. Cross-cutting issues			
SciCOFish contribution to environmental sustainability, gender equality, good governance and human rights ²	<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

² Suggested indicator: non provided in Contribution Agreement

ANNEX 2: 2011 annual work plan

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
Overall objective: conservation and sustainable use of coastal and oceanic fisheries resources in the Pacific Islands region			
<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) 			
Project purpose: to provide a reliable and improved scientific basis for management advice and decision making in oceanic and coastal fisheries			
<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 			

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
vessels) with no decrease in data quality <ul style="list-style-type: none"> At least 5 P-ACP countries adopt coastal fisheries management measures in line with project recommendations 			
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
1.3. Bioeconomic modeling and national advice			
<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>	<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
1.4. Ecosystem modeling of management and climate change			
<p>1 regional and 10 national reports (including Timor Leste) providing advice on tuna resource vulnerability to environmental variability including 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
1.5. Validate key model parameters through tagging			
<p>5,000 tuna tagged of which 80% are bigeye³</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
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			
<p>Country specific needs prioritised for all P-ACPs</p>	<ul style="list-style-type: none"> • Travel or correspond with at least 5 countries to identify management 	<ul style="list-style-type: none"> • Matrix of priority activities produced for at least 5 countries 	<ul style="list-style-type: none"> • 1 country in quarter 1, 2 in quarter 2 and 2 in quarter 3

³ 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
	<p>and monitoring needs and prioritise these</p> <ul style="list-style-type: none"> Incorporate management and monitoring priorities in at least 2 joint country strategy documents 	<ul style="list-style-type: none"> Two JCS documents incorporate management and monitoring priorities 	<ul style="list-style-type: none"> 1 country in quarter 2 and 1 in quarter 3
<p>Standard monitoring protocols implemented and sustained in at least 5 P-ACPs</p>	<p>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 creel survey in 2 countries and assess the methodology 	<p>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 necessary 	<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
	<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"> 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 	<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

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 4 Quarter 3 and 4 Quarter 3 Quarter 4
2.4. Develop management advice			
Assessments and management recommendations given for at least 5 major coastal fisheries	<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 undertake training and analysis of their data at SPC for developing management arrangements Participate in regional and international meetings covering coastal fisheries monitoring and/or management 	<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 analysis and interpretation of data for management advice Regional and international meetings attended as needed 	<ul style="list-style-type: none"> Quarter 2 and 4 Quarter 2, 3 and 4 Quarter 2, 3 and 4 As needed during the year.
3. Shared project activities			
3.1. Cross-cutting issues			
SciCOFish contribution to environmental sustainability,	<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

Performance and success indicators Target 2014	Activities 2011	Results to be delivered – quantity, quality and time	2011 activity schedule
gender equality, good governance and human rights ⁴			
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 • Promotion of EU visibility 	<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 training, workshop and use of project equipment 	<ul style="list-style-type: none"> • Continued activities all over the year

⁴ Suggested indicator: non provided in Contribution Agreement