SECRETARIAT OF THE PACIFIC COMMUNITY

FORTIETH MEETING OF THE COMMITTEE OF REPRESENTATIVES OF GOVERNMENTS AND ADMINISTRATIONS (Noumea, New Caledonia, 25–29 October 2010)

DIVISIONAL REPORTS

AGENDA ITEM 4.4 – FISHERIES, AQUACULTURE AND MARINE ECOSYSTEMS DIVISION REPORT

(Paper presented by the Secretariat)

Summary

This paper reports on the work of the Fisheries, Aquaculture and Marine Ecosystems Division during 2010, and reviews the planned results for 2011. The division, previously called the Marine Resources Division, began implementation of a new four-year strategic plan this year. Good progress has been made during the year, and improvements can be expected in 2011 with a strong prospect of additional project funding.

Recommendations

- 1. CRGA is invited to:
 - note the results delivered and the achievements of the division during 2010;
 - approve the outline of the 2011 work programme and endorse in principle the new initiatives proposed, notably:
 - a second phase of the Global Environment Facility project to provide scientific support for oceanic fisheries management;
 - the strong fisheries component of the German Technical Cooperation (GTZ) programme to assist coastal communities to adapt to climate change; and
 - project support from the French Global Environment Facility (FFEM) to build on the achievements of the Coral Reef Initiatives for the Pacific (CRISP) project.

FISHERIES, AQUACULTURE AND MARINE ECOSYSTEMS DIVISION

Purpose

1. The purpose of this paper is to report on implementation of the 2010 work plan, including progress with new initiatives endorsed by CRGA last year, and to outline the plan for 2011.

Presentation of the division

- 2. The division consists of two programmes: the Oceanic Fisheries Programme (OFP) and the Coastal Fisheries Programme (CFP). The Director's Office provides oversight and support for both programmes.
- 3. The goal of the division is the sustainable management of the marine resources of the Pacific Islands region for economic growth, food security and environmental conservation.
- 4. The goals of the coastal and oceanic programmes are respectively:
 - sustainable management and development of coastal fisheries, nearshore fisheries and aquaculture in Pacific Island countries and territories (PICTs);

and

- management of fisheries exploiting the region's resources of tuna, billfish and related species for economic and ecological sustainability using the best available scientific information.
- 5. The work that contributes to the achievement of these goals during 2010 is reported in Annex 4 by objective and result area. This will be updated at the end of the year and will form the basis of the division's annual report, which will be published after the end of the programme year on December 31.
- 6. Annex 3 contains the summary of results by country, providing an update on progress in implementing the fisheries sector part of the various joint country strategies.

Divisional finance

7. The revised budget for the division for 2010 was 10.8 million CFP units (equivalent to USD 11.3 million at September exchange rates) (Table 1).

	Director	OFP	CFP	Combined
Recurrent	498,700	1,350,200	1,619,900	3,468,800
Project	152,100	4,993,900	2,218,500	7,364,500
Total	650,800	6,344,100	3,838,400	10,833,300

Table 1: Revised budget of FAME for 2010 in CFP units

The CRISP Project Coordination Unit, entirely project funded, is included under CFP.

- 8. As expected, funding was tight during the first part of 2010 for CFP, although a small increase in programme funding relative to 2009 was made possible by a return to more normal exchange rates.
- 9. CFP benefited from a new Australian Agency for International Development (AusAID) project to develop monitoring of the impact of climate change on coastal fisheries. OFP secured additional funding from the Western and Central Pacific Fisheries Commission (WCPFC) for scientific services as well as a grant from the Government of New Caledonia to support data entry work. The start of the European Union-funded Scientific Support for the Management of Coastal and Oceanic Fisheries in the Pacific Islands Region (SciCOFish) project mid-year also made substantial extra resources available to both programmes.

Divisional staffing

10. As at 1 September 2010 the division had a total of 64 staff (of whom 26 are female) (Table 2).

	Director	OFP	CFP	Total
Professional	3	23	13	39
Technical	2	16	1	19
Administrative	1	1	4	6
Combined	6	40	18	64

Table 2: Staffing of FAME as at 1 September 2010

This is similar to 2009, although several posts were also under recruitment. There was some turnover of staff during the year, with two section head positions in CFP vacant for several months before replacements could take up the jobs.

11. Sixteen nationalities are represented among the professional staff, and nine of the 42 positions are held by Pacific Islanders. Technical staff are mainly data entry personnel but also include laboratory technicians and publication design specialists. There are staff seconded to the fisheries administrations in New Caledonia, French Polynesia and the Federated States of Micronesia (FSM).

New divisional arrangements

- 12. From the start of 2010, CFP adopted a new structure with three sections: Coastal Fisheries Science and Management, Aquaculture, and Nearshore Fisheries Development. Each section addresses one of the objectives of the work programme.
- 13. The structure of OFP was also adjusted to split the Statistics and Monitoring Section into two sections, one for statistics and one for monitoring. This reflects the growing workload and staffing in these two areas.
- 14. The Information Unit now comes under the Director's Office, as does a position to handle administration and communications for EU-funded projects; both activities serve the two programmes.
- 15. As planned, the Freshwater Aquaculture Officer was relocated from Noumea to Suva in early 2010. A new Observer Training and Coordination Officer has recently been recruited and is based in Pohnpei. In both cases, the motive for this decentralisation is to put the officers closer to where most of their work takes place for greater efficiency and cost savings.

Progress towards achieving strategic plan objectives

16. A detailed report against the new strategic plan for work carried out in 2010 is attached as Annex 4; therefore, this section just summarises the objectives of each programme and some key achievements. An update is also provided on action taken to implement some of the new initiatives endorsed by CRGA in 2009.

Directors' Office

- 17. The Directors' Office aims to provide effective coordination and resourcing of the work of the Oceanic and Coastal Fisheries Programmes. Its specific objectives are:
 - to develop and sustain effective relationships between the division and its stakeholders; and
 - to promote informed policy decisions and public awareness of marine resource issues in PICTs.
- 18. 2010 saw some good progress in resource mobilisation, with the start of the SciCOFish project (10.4 million CFP units over four years). Several other projects were approved subject to final documentation these are discussed further in the context of the 2011 work programme.
- 19. The Council of Regional Organisations in the Pacific (CROP) Marine Sector Working Group was revived and oversaw the development of the Oceanscape Framework a major ocean policy initiative proposed by the Government of Kiribati. This was endorsed by the Pacific Islands Forum. Forum Leaders also supported the findings of the Future of Fisheries Study, which is covered in detail in paper 3.4.
- 20. In addition to the usual range of publications and information material, a new website for FAME and CFP was developed and is now online. It uses the new system adopted across SPC. The new OFP site should also be operational before the end of the year. A study of the effectiveness of the distribution of fisheries information material in one member country has provided new insight into the problems of 'getting the message across'. Improved methods of distribution are now being developed. Information on key fisheries issues was reported quite widely in regional media, both in print and on the radio during the year, although we still have a long way to go before we can match the coverage given to Greenpeace on these topics.

CFP

- 21. Objectives of CFP are:
 - Objective 1 Assist governments and administrations in the development of scientifically informed and socially achievable coastal fisheries management policies and systems in line with the guiding principles of the Apia Policy.¹
 - Objective 2 Provide a regional framework for sustainable aquaculture, in the areas of planning, research, development and trade, for Pacific Island governments, private enterprises and other stakeholders.
 - Objective 3 Develop sustainable nearshore fisheries in PICTs to provide food security, livelihoods and economic growth.

¹ The Pacific Islands Regional Coastal Fisheries Management Policy 2008–2013 ('the Apia Policy') was endorsed by the 4th Ministerial Forum Fisheries Committee (FFC) in 2008.

- 22. The first objective largely involves improving the ability to evaluate and manage coastal fisheries resources. Two more PICTs now have the capacity to carry out assessments of aquarium fish resources by national staff, and fishery management plans for specific fisheries were agreed with stakeholders in Cook Islands, Kiribati and FSM. Improved legislation for coastal fisheries and aquaculture was developed for three PICTs, with more work planned before the end of the year. Community based management programmes were strengthened in four PICTs, empowering communities and improving resource management. Much of this work involves extensive consultations in countries to achieve support from stakeholders.
- 23. In the field of aquaculture, three PICTs will have new development plans by the end of the year, to guide the development of this growth industry. SPC staff continue to support the Australian Centre for International Agricultural Research (ACIAR) mini-projects in six PICTs, generating useful research results as well as enabling five students to achieve postgraduate qualifications in aquaculture this year. SPC is also an organiser of the regional conference 'Tahiti Aquaculture 2010', which will see, among other things, the presentation of a review of the marine shrimp industry. Staff in nine PICTs with aquarium exports of cultured species have a better understanding of the processes required by the Convention on International Trade in Endangered Species (CITES) following a workshop held in Honiara by the Aquaculture Section. This will facilitate trade in these commodities.
- 24. Studies have consistently shown that the provision of fish aggregating devices (FADs) is one of the most effective ways of improving the productivity of coastal fishing, exploiting sustainable resources of surface tuna. However, relatively few PICTs are able to maintain FAD programmes. During 2010, the Fishery Development Officers focussed their efforts on building the capacity of fisheries departments to order materials and deploy and maintain FADs as well as providing training in fishing skills and monitoring catches to demonstrate the benefits. Programmes are in place in Samoa, FSM, Kiribati, Tuvalu, Nauru and Marshall Islands, and have led to improvements in food security and income. Other achievements have included training of fishers as well as search and rescue staff, leading to improved understanding of sea safety issues; and successful hook exchange experiments/demonstrations in New Caledonia and American Samoa to minimise the accidental catch of turtles by tuna longliners.
- 25. While the preceding paragraphs highlight outcomes of work by the three sections making up CFP, there is often a need for an integrated approach. The development of sport fishing for bonefish in Cook Islands, for example, involved development of a management plan for the fishery, development of training guides, and publicising the opportunity to sports fishers overseas. The result is several new business enterprises and more tourist arrivals, with reduced commercial fishing pressure on lagoon stocks.

OFP

- 26. The OFP work programme has three key objectives:
 - Objective 1 Provide high-quality scientific information and advice for regional and national fisheries management authorities on the status of, and fishery impacts on, stocks targeted or otherwise impacted by regional oceanic fisheries.
 - Objective 2 Collect and analyse accurate and comprehensive scientific data for regional and national fisheries management authorities on fisheries targeting the region's resources of tuna, billfish and other oceanic species.
 - Objective 3 Improve understanding of pelagic ecosystems in the western and central Pacific Ocean.

- 27. Major achievements under the first objective included the completion of new region-wide stock assessments for skipjack and bigeye tuna. The skipjack assessment, the first for some time, made use of information from the tagging programme for the first time as well as new analyses of fishery-related data. The results, suggesting less scope to increase catches than had previously been thought, have attracted considerable interest. The bigeye assessment shows that overfishing continues to occur. A three-year research plan was developed for key oceanic shark species, and funding for the implementation of this plan is being sought from WCPFC.
- 28. At the subregional and national levels, work included analyses that have supported the introduction of a new longline fishery management system for the Parties to the Nauru Agreement (PNA), as well as analytical work on improved management of albacore longline fisheries for other members. The delivery of advice for national tuna management measures has continued, with four National Tuna Fishery Status Reports to be completed by the end of the year. Capacity building work for national fisheries staff in understanding and using stock assessments continues to be a great success, with many now considering formal studies to further develop their skills in this area.
- 29. The programme met all its responsibilities for maintaining and updating the regional database of tuna fisheries statistics, with the annual catch estimates for 2009 completed on schedule. As well as its importance to member countries, the data feeds directly into the stock assessments mentioned above. More countries are now able to manage their own data efficiently using the latest version of the Tuna Fisheries Data Management System (TUFMAN) programme, which was rolled out in seven countries during the year. SPC has provided training and in some cases computer hardware to accompany this rollout. SPC has also assisted the development of tuna data collection in Indonesia, Philippines and Vietnam. Although these countries are not SPC members, they have fisheries that impact on the region's resources. Considerable progress was made with the analysis of purse-seine species composition, using paired spill and grab samples collected by observers during 2008–2010.
- 30. The region's observer programmes have continued to meet the objective of 100 per cent observer coverage on purse-seine vessels during 2010, with support from SPC and the Forum Fisheries Agency (FFA). By the end of the year, 150 observers will have been trained. While most of this training is delivered by SPC Training Officers, Papua New Guinea (PNG) now runs its own courses, and other countries are developing this capacity. As well as providing a wealth of data on the fishery and improving compliance, observer programmes are providing jobs for some 450 Pacific Islanders. There is strong demand for this kind of work in countries like Kiribati and Solomon Islands, with many applicants for each place.
- 31. Although considerable success has been achieved in observer training, some difficulties have been experienced at the national level in organising observer data for transmission to OFP for processing. This has created a backlog of data that will take some time to clear. OFP staff have been working actively with fisheries departments to set up efficient procedures to send data forms to SPC and return the processed data to them.
- 32. While the major tagging efforts of the Pacific Tuna Tagging Programme were completed in 2009, two cruises targeting bigeye tuna in the central Pacific using hand-line fishing will have been executed by the end of 2010. Meanwhile, efforts have gone into tag recovery, and arrangements have been put in place in all the major tag recovery locations. Fifteen per cent of tags have been returned, from as far away as Thailand and Ecuador, and analyses have been carried out on tuna movements and the impact of FADs. Tagging of albacore tuna has proved more problematic, but biological samples have been collected as well as some data, and useful experience has been gained.

33. Other results delivered by the Ecosystem Modelling and Analysis Section include a comprehensive analysis of the effects of oceanographic conditions on albacore fisheries, a study on the effectiveness of high seas marine protected areas, and the first applications of the Spatial Ecosystem and Population Dynamics Model (SEAPODYM) model at the level of national exclusive economic zones (EEZs).

CRISP

- 34. The aims of the CRISP project are to develop a vision for the future of these unique environments and of the people who depend on them and to introduce strategies and projects to conserve their biodiversity while developing the economic and environmental services that they provide both locally and globally.
- 35. 2010 is the last full year for the project, and much emphasis has been placed on publishing and disseminating results. Major publications are listed in Annex 2. The project has achieved a high degree of visibility, particularly in the francophone territories. CRISP has continued some field activities during 2010. These include trials of post-larval capture and culture (PCC) in Kiritimati Island, Kiribati; further work on shark tagging; and a marine resource and biodiversity survey of the Chesterfield Islands of New Caledonia carried out with the Secretariat of the Pacific Regional Environment Programme (SPREP).

Gender

36. Implementing the SciCOFish project has provided the opportunity to undertake a major gender analysis on how to increase benefits for women by increasing their participation in different areas of oceanic and coastal fisheries science and management. The current situation will be benchmarked in three countries. The study will then: identify and assess barriers to women's participation, identify measures to address these barriers, identify opportunities for specific intervention, and develop a gender mainstreaming toolkit for increasing women's participation in fisheries science and management with gender indicators.

Future direction, opportunities and challenges

37. In 2009, FAME identified a number of priorities, aided by the independent review of the programmes, the Heads of Fisheries meeting, and the development of the new strategic plan. These were highlighted in the 2009 CRGA divisional report. This section outlines action taken to address these needs over the past 12 months, as well as discussing a couple of new priorities.

CFP

- 38. The need for simple monitoring programmes, databases, and effective management measures for key inshore fisheries This will be the main output of the SciCOFish project coastal component, with an emphasis on building national capacity in these areas. Five long term monitoring sites, tracking the impacts of climate change, will also be established under the AusAID climate change monitoring project. Both projects started during 2010.
- 39. The need to provide effective support to private sector fisheries enterprises, in the areas where they most require help, including post-harvest and export market requirements The 'Fisheries for Food Security' project proposed to AusAID includes a long term adviser to assist countries and companies in meeting market requirements. This will complement short term assistance under the FFA/SPC DevFish2 project, which also supports the private sector through national associations. Both projects have been approved, subject to conclusion of agreements with the implementing agencies.

- 40. A need to ensure that fisheries information products are relevant to, and are reaching, the people who can use them A study on the effectiveness of distribution of information in one member country has been completed, a new Communications Officer has been recruited, and discussions will be held with non-governmental organisations (NGOs) at a meeting in November to explore greater use of non-government channels to distribute material.
- 41. Opportunities for greater engagement with the private sector and other key stakeholders in aquaculture and other programme activities The tilapia conference at the end of 2009 and the review of mariculture experience in the region (planned for late 2010) are providing new strategies for more effective engagement with the private sector in aquaculture. Linkages in fisheries development and tuna science are being strengthened.
- 42. Limited capacity in the programme in to deal with work in the legal and economic areas The programme has recruited two new section heads with experience developing legislation in their own countries; a legal adviser position serving all SPC divisions will be recruited for SPC's Strategic Engagement, Policy and Planning Facility (SEPPF); and a Fisheries Economist will be recruited in 2011, replacing one of the existing Fisheries Development Officer posts.
- 43. An emerging issue that seems likely to consume a fair amount of time and effort is the introduction of new species and varieties of tilapia for aquaculture. SPC has never promoted species introductions, but the advantages of using familiar species and carefully selected strains of any animal for food production are well known. Recently one NGO and our colleagues at SPREP have raised fresh concerns over plans in member countries to introduce improved strains of Nile tilapia. While this is ultimately the decision of the country, which must balance the benefits for production and food security against risks to biodiversity, it will be important that regional organisations provide consistent advice.

OFP

- 44. *Bio-economic analysis to inform decision-making* This was identified as a priority in last year's CRGA divisional report, and has since been endorsed by the Melanesian Spearhead Group technical meeting on fisheries and the Future of Fisheries Study, among others. This is a major result area for the SciCOFish project and FFA will be involved in the economic analysis. An agreement has been signed by the two agencies for implementation, and recruitment of the necessary expertise is in progress.
- 45. Strengthening scientific advice and support to individual PICTS A second Senior Fisheries Scientist has been recruited to provide national level advice. Guidance on how to make this advice more relevant and timely was provided by a special session at the 'mini' Heads of Fisheries meeting in Honiara in May and will be implemented.
- 46. Sustaining the efforts that have gone into building up the regional observer programme Through exceptional efforts, the two SPC staff members have been able to provide the training needed to maintain observer numbers (working with support from FFA). However, as expected, gaps have emerged in the capacity of both organisations to support the more than five-fold expansion of observer placement required to provide 100 per cent coverage. These gaps are in areas ranging from debriefing and data management to the financial administration of the subregional programmes. A joint FFA/SPC proposal for funding support for three years to help address these issues was submitted to the New Zealand Aid Programme, and its approval was announced at the Forum meeting by New Zealand's Prime Minister.

- 47. *Plans for further tagging cruises* As noted above, limited tagging work was carried out in 2010. During the year, however, the National Fisheries Authority (NFA) of PNG announced plans to launch a three-year USD 3 million tagging programme in PNG waters. OFP will provide technical assistance with this unique investment in fisheries research by a developing Pacific Island country.
- 48. *More emphasis will also be needed on the development and effective use of national tuna databases* – Continuing investment in training, equipment and software development is resulting in improved capacity in a number of member PICTs. Support under the SciFish project will be extended under the new EU-funded projects, and capabilities to handle artisanal tuna fisheries data and make greater use of databases to identify illegal, unreported and unregulated (IUU) fishing will be developed.
- 49. Deepwater snapper fisheries A new area of work that needs to be addressed is the capacity to assist with stock assessments and management advice for deepwater snapper fisheries. There is strong demand from member countries for assistance in this area. This work tends to fall between CFP (which has focused mainly on inshore reef and lagoon fish) and OFP (as they are not tuna or related species). Collaborative work between the two programmes will address the needs of member countries fully.

CRISP

- 50. The main issue for CRISP is that funding for the programme will end in early 2011, except for a grant that will extend work on development of PCC into 2012.
- 51. As a multi-agency programme, with objectives more closely aligned to the mandate of SPREP than that of SPC, CRISP seemed at first to be something of an anomaly in the FAME Division. In recent years, however, synergies have developed between the work of CRISP and that of the rest of the division, and there are good reasons to try to sustain the concepts and achievements of the project.
- 52. A proposal is currently being developed for the French Global Environment Facility (FFEM) that would build on this work, particularly at sites supported under CRISP. There may also be a role for the current CRISP coordination unit in the implementation of proposed 10th European Development Fund (EDF10) projects for the Overseas Countries and Territories (OCT) and members of the African, Caribbean and Pacific Group of States (ACP).

2011 work programme and budget

- 53. The 2011 work programme will be developed in detail in the first weeks of 2011, in the same format as the 2010 programme (Annex 4). It will be discussed by Heads of Fisheries at their meeting at the beginning of March and adjusted in line with any new priorities that they identify. Results and activities are assigned to individual staff, and form the work plans for their performance appraisal during the year.
- 54. The budget Green Book narrative identifies some of the significant results that have already been identified and can be achieved with the financial resources that have been secured. It is not always easy to separate the results of recurrent and project funding some results require the input of resources from both, reflecting the alignment of projects with the strategic plan and a chronic shortage of recurrent funding.

- 55. In line with the FAME strategic plan objectives, the Director and supporting staff will concentrate on strengthening the relationship with stakeholders colleagues in national fisheries departments, other regional agencies, partners that provide funding support, and international organisations. The Information Unit, which comes under the Director's Office, aims to provide information that will improve policy decisions and public awareness of marine resource issues. The Director has oversight of the implementation of the work programme of the division, as well as the management of major projects that involve both programmes.
- 56. Achievement of results of recurrent funding can be measured in terms of implementation of the work programme activities (at least 80 per cent); the outcomes of consultative meetings with fisheries colleagues; the mobilisation of new project resources (at least one major new project); and the production, dissemination and impact of information materials. Project results relate mainly to meeting the reporting and administrative requirements, as project outcomes are covered under the programmes that implement the work.
- 57. The objectives of the coastal fisheries programme can be summarised as sustainable management of coastal fisheries resources, development of aquaculture, and the development of nearshore fisheries within resource constraints. Common themes include the development of management arrangements (community and national) based on reliable resource assessments; research and development planning in aquaculture, with an increased emphasis on support for the private sector; and the promotion of fishing methods that are sustainable and encourage conservation of inshore reef and lagoon resources, such as fishing on FADs and sport fishing.
- 58. Measurable results in coastal fisheries management from recurrent funding include the adoption and implementation of resource management plans, resulting in sustainable fisheries in two PICTs; establishment of community based management arrangements in four communities; and development of improved fisheries legislation. Project funding supports this work through the development of national capacity in resource assessment and monitoring (50 people trained in survey methods) as well as database development (three systems up and running).
- 59. Results in aquaculture and fisheries development depend on recurrent funding at present. These include establishment of sustainable FAD fishing programmes (deployment, maintenance, monitoring and fishing skill development) in one PICT; and the establishment of two successful new ventures in aquaculture and a new sport fishing fishery with support from SPC.
- 60. OFP works in the broad areas of stock assessment, fisheries monitoring, fisheries data management and research and modelling of oceanic ecosystems. Results from recurrent funding include contributions to the regional stock assessments of major tuna species (three regional assessments); the delivery of specially tailored advice to individual members on their tuna resources soon to be delivered and updated on a Web-based system; and the updating of national tuna databases, with 15 staff trained in their effective use.
- 61. The majority of OFP results are project funded (including support from WCPFC for providing agreed services). These include evaluation of management measures; stock assessment for key shark species; bio-economic modelling to predict economic outcomes of management measures; and continued observer training and development of national observer programmes, which should include accreditation of 150 new observers, training of 40 observer debriefers, and accreditation of three new national observer trainers.

62. The 2011 budget is summarised in Table 3.

Table 3: Budget of FAME for 2011 in CFP units

	Director	OFP	CFP	Combined
Recurrent	504,700	1,358,200	1,626,100	3,489,000
Project	205,800	3,289,500	1,767,200	5,262,500
Total	710,500	4,647,700	3,393,300	8,751,500

- 63. These figures are broadly similar to the 2010 budget presented to CRGA, but project funding is considerably less than in the 2010 revised budget. This reflects the fact that additional project funding is usually secured after the budget has been prepared.
- 64. In particular, the 2011 budget excludes a number of projects for which signed agreements had not yet been received at the time of preparation. An update on these will be provided during the CRGA presentation, but is seems likely that most, if not all, of the following four projects will be approved and running in 2011.
- 65. *PNG tuna tagging* This is a three year project (2011–2014) funded by the PNG NFA in the amount of USD 3 million (2.84 million CFP units). The project will be managed by NFA; but a little under 1/3 of the total funding is earmarked to support technical assistance by OFP staff. The project will implement a major tagging programme and build capacity in PNG for applied research, while benefiting from the systems and experience built up during the Pacific Tuna Tagging Project. It represents a unique investment in tuna science by a developing Pacific Island country. The project agreement was being exchanged for signature in August.
- 66. *DevFish 2* This EUR 8.2 million four-year project funded by EU aims to promote tuna industry development in Pacific ACP countries while assisting them to combat IUU fishing. The lead agency is FFA, but activities with a budgeted cost of 3.3 million CFP units will be implemented by SPC. The project financing agreement was signed in December 2009 and the project was intended to run from mid-2010 through 2014, but the agreements with FFA and SPC have been delayed by some administrative problems within the European Commission system.
- 67. *Regional Fishery Observer Programme* This project is discussed in paragraph 46. FFA is the lead agency. The total budget for the three-year project is NZD 4.8 million, of which SPC will receive about 60 per cent approximately 2 million CFP units. Funding approval has been announced, but it has been necessary to rework the project proposal several times.
- 68. *Fisheries for Food Security* This four-year project, with a budget of AUD 4.8 million (4.1 million CFP units) will provide scientific services in support of oceanic fishery management measures developed by FFA members. It will also support services in three areas of coastal fisheries: management and development of export fisheries for aquarium fish, development of mariculture opportunities, and assistance to meet export requirements for marine products. The project has passed peer review, and an exchange of letters of agreement is expected in October.
- 69. Several smaller but significant projects are proceeding through approval processes; most recently two collaborative projects funded by the Pelagic Fisheries Research Programme of the University of Hawai'i were agreed for implementation by SPC and the Inter-American Tropical Tuna Commission (IATTC). These will look at the impacts of ocean acidification on yellowfin tuna, and comparative analysis of data from electronic and conventional tagging.

- 70. There are also a number of projects that are less advanced, or in which the exact role for FAME and available funding have yet to be confirmed. These include the GTZ climate change adaptation project, an EDF10 project to assist the private sector to produce commodities for trade (which includes an aquaculture component), a further phase of the Oceanic Fisheries Management Project funded by the Global Environment Facility (GEF) and the proposal to FFEM mentioned in paragraph 52. The support of CRGA for these projects is requested.
- 71. In short, there has been progress in mobilising resources for the work of the programmes in 2011, and the many staff members who have contributed to the design and development of proposals should be commended. However, this will increase the proportion of funding derived from projects. There will be project-funded activities in every section of the division. All of these projects are 3–5 years in duration, and while some will achieve their objectives in this time frame there remains a need for more sustained finance in several areas.

Conclusions

- 72. 2010 was the first year of a new strategic plan for the FAME Division. Services were generally delivered in line with expectations, although the work of CFP was limited by a lack of resources and some delays in replacing two senior staff in the first three quarters of the year.
- 73. Both programmes can be expected to deliver additional results in 2011, addressing a number of new issues, provided additional project funding becomes available as expected.

Recommendations

- 74. CRGA is invited to:
 - note the results delivered and the achievements of the division during 2010;
 - approve the outline of the 2011 work programme and endorse in principle the new initiatives proposed, notably:
 - a second phase of the Global Environment Facility project to provide scientific support for oceanic fisheries management;
 - the strong fisheries component of the German Technical Cooperation (GTZ) programme to assist coastal communities to adapt to climate change; and
 - project support from the French Global Environment Facility (FFEM) to build on the achievements of the Coral Reef Initiatives for the Pacific (CRISP) project.

1 September 2010

ANNEXES

- Annex 1 MAIN SECTORAL MEETINGS AND WORKSHOPS
- Annex 2 MAJOR PUBLICATIONS
- Annex 3 COUNTRY ACTIVITIES
- Annex 4 PROGRESS AGAINST STRATEGIC PLAN OBJECTIVES

Annex 1

Significant regional meetings/workshops arranged in 2010

Completed (January to August inclusive)

Pacific Tuna Tagging Programme Mid-Term Review (22–26 February 2010) held in Noumea, New Caledonia

Regional Tuna Stock Assessment Planning Workshop (6-10 April) held in Noumea, New Caledonia

Workshop of experts on vulnerability and adaptation of coastal fisheries to climate change: Monitoring Indicators and Survey Design for Implementation in the Pacific (19–22 April 2010) held in Noumea, New Caledonia

Tuna Data Workshop (26-30 April) held in Noumea, New Caledonia

Regional Debriefers Workshop (15–22 July 2010) held in Cairns, Australia (in collaboration with the National Marine Fisheries Service [NMFS] and WCPFC).

Regional Observer Coordinators Workshop (22-24 July 2010) held in Cairns, Australia (in collaboration with FFA)

Mini Heads of Fisheries Meeting held in Honiara in conjunction with the Forum Fisheries Committee meetings (6 May 2010) held in Honiara, Solomon Islands

Regional workshop on CITES non-detrimental findings for marine listed species (17–20 May 2010) held in Honiara, Solomon Islands

2010 Stock Assessment and Ecosystem & Bycatch Training Workshops (7–21 June 2010) held in Noumea, New Caledonia

SPC Regional Terrestrial and Aquatic Animal Disease Reporting Workshop (21–25 June 2010) held in Nadi, Fiji Islands

Planned (September to December inclusive)

Regional Fisheries Officers Course (October 2010) held in Santo, Vanuatu

Regional workshop on Approaches to the Implementation and Monitoring of Community-based Ecosystem Approach to Fisheries Management: Finding common ground between the coastal fisheries and conservation approaches in the Pacific (29 November to 3 December 2010) held in Noumea, New Caledonia

Regional workshops, Tahiti Aquaculture 2010 (sustainable aquaculture on tropical islands) and shrimp aquaculture in the Pacific (6–11 December 2010), held in Papeete, French Polynesia

Annex 2

Publications produced by or through the Division of Fisheries, Aquaculture and Marine Ecosystems (FAME) for 2010

Publications produced by or for the Director's Office

- Anon. 2010. The future of Pacific Island fisheries Summary, 8 p. Noumea, New Caledonia: Secretariat of the Pacific Community and Honiara, Solomon Islands: Forum Fisheries Agency.
- Gillett, R. and Cartwright, I. 2010. The future of Pacific Island fisheries. Noumea, New Caledonia: Secretariat of the Pacific Community and Honiara, Solomon Islands: Forum Fisheries Agency.139 p.
- Gillett, R. and Cartwright, I. 2010. The future of Pacific Island fisheries, summary report. Noumea, New Caledonia: Secretariat of the Pacific Community and Honiara, Solomon Islands: Forum Fisheries Agency. 38 p.

Publications produced by or for the CFP

- Anon. 2010. SPC Coastal and Oceanic Fisheries Programme's Digital Library. Noumea, New Caledonia: Secretariat of the Pacific Community.
- Anon. 2010. SPC Fisheries Address Book. Noumea, New Caledonia: Secretariat of the Pacific Community.
- Anon. 2010. SPC regional terrestrial and aquatic animal disease reporting workshop report. Noumea, New Caledonia: Secretariat of the Pacific Community.
- Friedman, K., Hampus, E., Tardy, E. and Pakoa, K. In press. Management of sea cucumber stocks: Patterns of vulnerability and recovery of sea cucumber stocks impacted by fishing. Fish and Fisheries.
- Johnson, J. 2010. Vulnerability and adaptation of coastal fisheries to climate change: Monitoring indicators and survey design for implementation in the Pacific. Workshop report (19–22 April 2010, Noumea) prepared for the Secretariat of the Pacific Community, Noumea, New Caledonia. 14 p.
- Kinch, J. and Teitelbaum, A. 2010. Proceedings of the regional workshop on the management of sustainable fisheries for giant clams (Tridacnidae) and CITES capacity building (4–7 August 2009, Nadi, Fij1i Islands). Noumea, New Caledonia: Secretariat of the Pacific Community. 52 p.
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- Picquel, E. and Blanc, M. 2010. Report on a coastal sport fishing training workshop in Aitutaki, Cook Islands (16–23 June 2010). Noumea, New Caledonia: Secretariat of the Pacific Community.
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- Ponia, B. 2010. A review of aquaculture in the Pacific Islands 1998–2007: Tracking a decade of progress through official and provisional statistics. Noumea, New Caledonia: Secretariat of the Pacific Community. 32 p.
- Sokimi, W. 2010. Kiribati nearshore FAD project to support food security (11 March to 4 May 2010). Field Report No. 31, Nearshore Fisheries Development Section. Noumea, New Caledonia: Secretariat of the Pacific Community.

- Sokimi, W. and Beverly, S. In press. Common small craft night baiting methods and some useful night fishing methods of the Pacific Islands: a manual for fishermen (produced in both English and French). Noumea, New Caledonia: Secretariat of the Pacific Community.
- SPC. 2010. A community-based ecosystem approach to fisheries management: guidelines for Pacific Island countries. Noumea, New Caledonia: Secretariat of the Pacific Community. 54 p.

Publications partly funded by the CRISP programme

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- Clua E., Sérét B. In press. Unprovoked fatal shark attack in Lifou Island (Loyalty Islands, New Caledonia, South Pacific) by a Great White Shark, Carcharodon carcharias. American Journal of Forensic Medicine and Pathology.
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- Egretaud, C. 2010. Plan de gestion des espaces lagonaires du lagon de Aitutaki, Iles Cook. 28 p.
- Faninoz, S. 2010. Journal des Aires Marines Protégées de la côte Nord-Est, Nouvelle Calédonie. French version.
- Frédérich, B., Lecchini, D. and Vandewalle, P. 2010. Evidence of an original scale development during the settlement phase of a coral reef fish (Acanthurus triostegus). Journal of Applied Ichthyology 26(2010) :176–178.
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- SPC Fisheries Newsletter #129 (May–August 2009), version in French
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- SPC Fisheries Newsletter #131(January-April 2010), versions in English and French
- SPC Fisheries Newsletter #132 (May-August 2010), version in English
- SPC Live Reef Fish Information Bulletin #19, version in English
- SPC Sea Safety Information Bulletin #6, version in English
- SPC Traditional Marine Resource Management and Knowledge Information Bulletin #25, version in French
- SPC Traditional Marine Resource Management and Knowledge Information Bulletin #26, version in French

SPC Traditional Marine Resource Management and Knowledge Information Bulletin #27, version in English

- SPC Trochus Information Bulletin #15, versions in English and French
- SPC Women in Fisheries Information Bulletin #20, version in French
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- Anon. 2010. Sea turtle species identification cards (updated version). Plastic cards produced in English. Noumea, New Caledonia: Secretariat of the Pacific Community.
- Anon. 2010. Handling guidelines for sportfish Part I bonefish. Plastic cards produced in both English and French. Noumea, New Caledonia: Secretariat of the Pacific Community.
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Publications produced in collaboration with or for member countries and territories

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- Anon. 2010. Poster: Dip bottom fis blong Vanuatu (Vanuatu deep bottom fish) in Bislama. Noumea, New Caledonia: Secretariat of the Pacific Community.
- Anon. 2010. Poster: Helti fiseri risos vs Ova fising (Healthy fisheries resources vs overfishing) in Bislama. Noumea, New Caledonia: Secretariat of the Pacific Community.
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- Ropeti, E., Joseph, E. and David, D. In press. Fisheries management plan for Pakin, Sokehs Municipality, Pohnpei, FSM. Noumea, New Caledonia: Secretariat of the Pacific Community.
- Trichereau, J., Teitelbaum, A and Mugneret, B. 2010. Orientations pour un développement aquacole à Wallis et Futuna. Noumea, New Caledonia: Secretariat of the Pacific Community.

Papers produced by or for OFP

WCPFC Tuna Fishery Yearbook 2009 – PROVISIONAL Date of Issue: 26 July 2010

- Harley, S., Williams, Nicol, S. and Hampton, J. 2010. The western and central Pacific tuna fishery: 2007–2008 overview and status of stocks. Tuna Fisheries Assessment Report No. 9. Noumea, New Caledonia: Secretariat of the Pacific Community.
- Dambacher, J.M., Young, J.W., Olson, R.J., Allain, V., Galván-Magaña, F., Lansdell, M.J., Bocanegra-Castillo, N., Alatorre-Ramírez, V., Cooper, S.P. and Duffy, L.M. 2010. Analyzing pelagic food webs leading to top predators in the Pacific Ocean: A graph-theoretic approach. Progress in Oceanography 86:152–165.
- Morato, T., Hoyle, S.D., Allain, V. and Nicol, S.J. 2010. Seamounts are hotspots of pelagic biodiversity in the open ocean. Proceedings of the National Academy of Sciences 107(21):9707–9711.
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6th Session of the Scientific Committee of WCPFC

- GN-WP-1. Williams, P. and Terawasi, P. Overview of tuna fisheries in the western and central Pacific Ocean, including economic conditions 2009. SPC and FFA.
- GN-IP-4, S. Nicol, A. Lewis, D. Itano, T. Usu, B. Kumasi, B. Leroy, S. Caillot, C. Sanchez, J. Hampton Pacific Tuna Tagging Project progress report and work plan for 2010.
- GN-IP-6. Williams, A. and Nicol, S. South Pacific albacore tagging progress report.
- BI-WP-01. Farley, J., Williams, A., Davies, C. and Nicol, S. Regional study of South Pacific Albacore population biology: Year 2 – biological sampling and analysis.
- BI-WP-03. S. Nicol et al. Bigeye tuna age, growth and reproductive biology (Project 35) progress report. Rev. 1.

- EB-WP-01. Clarke, S. and Harley, S.J. A proposal for a research plan to determine the status of the key shark species.
- EB-IP-01. Filippi, D., Waugh, S. and Nicol, S. Revised spatial risk indicators for seabird interactions with longline fisheries in the western and central Pacific.
- EB-IP-02. Lehodey, P. et al. Project 62: SEAPODYM applications in WCPO progress report.
- EB-IP-06. Fitzsimmons, L. WCPFC Bycatch Information System (BMIS).
- EB-IP-07. OFP. Non-target species interactions with the tuna fisheries of the western and central Pacific Ocean.
- EB-IP-10. Allain, V. Trophic structure of the pelagic ecosystems of the western and central Pacific Ocean.
- FT-IP-01. Leroy, B. et al. Vertical behavior and the Observation of FAD effects on tropical tuna in the warm-pool of the western Pacific Ocean.
- MI-WP-01. Davies, N. and Harley, S.J. Stochastic and deterministic projections: A framework to evaluate the potential impacts of limit reference points, including multi-species considerations.
- MI-WP-03. Williams, P. and Harley, S. Characterization of purse seine fishing activities during the 2009 FAD closure.
- ME-WP-01. Davies, N. et al. Update of recent developments in MULTIFAN-CL and related software for stock assessment.
- ST-WP-01. Williams, P. Scientific data available to the Western and Central Pacific Fisheries Commission. Rev. 3.
- ST-WP-02. Lawson, T. An update on the species composition of purse-seine catches determined from paired spill and grab samples collected by observers.
- ST-IP-01. Williams, P. Estimates of annual catches in the WCPFC Statistical Area.
- ST-IP-02. Harley, S.J. and Lawson, T. Preliminary analysis of the spatial distribution of juvenile bigeye tuna catches from equatorial WCPO purse seine.
- ST-IP-04. Lawson, T. Effect of unit of effort on analyses of observer coverage rates.
- SA-WP-01. Harley, S. et al. Background information for the 2010 bigeye assessment.
- SA-WP-02. Hoyle, S. et al. Analysis of Japanese longline operational catch and effort for bigeye tuna in the WCPO.
- SA-WP-03. Hoyle, S. CPUE Standardisation for bigeye and yellowfin tuna in the western and central Pacific Ocean.
- SA-WP-04. Harley, S. et al. Stock assessment of bigeye tuna in the western and central Pacific Ocean.
- SA-WP-05. Hampton, J., Harley, S.J. Further analysis of CMM2008-01.
- SA-WP-08. Langley, A. et al. Standardized CPUE for skipjack caught by Japanese offshore pole and line fishery in the northern region of western and central Pacific Ocean.
- SA-WP-09. Kiyofuji, H. et al. Standardized CPUE for skipjack caught by Japanese offshore pole and line fishery in the northern region of western and central Pacific Ocean.
- SA-WP-10. Hoyle, S. et al. Stock assessment of skipjack tuna in the western and central Pacific Ocean.
- SA-IP-01. Harley, S. and Hoyle, S. Report from the pre-assessment workshop in April 2010.
- SA-IP-02. Williams, P. Changes to the data available for stock assessment.

Other reports or publications

- Bromhead, D. and Nicol, S. 2010. A preliminary overview of the tuna fishery operating inside the Tokelau EEZ. Working Paper presented to the Tokelau Government and Stakeholder EAFM Workshops held in Atafu, Nukunonu and Fakaofo (Tokelau) in April 2010.
- Bromhead, D., Harley, S.J. and Hampton, J. 2010. An update and proposed change to the current framework for national level scientific advice provision and capacity building. Working Paper presented to the Informal Meeting of the Heads of Fisheries (6th May 2010, Honiara, Solomon Islands).
- OFP. 2010. Status of the stock report. FFC74/IP5, Honiara, Solomon Islands.

Country specific activities with costings including those covered by a joint country strategy (JCS)

Note that this is a preliminary listing – costings, where provided, are only estimates. An accurate statement will be prepared after the end of the year, when activities have been completed and full financial records for the year are available.

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December) (* indicates activities covered by JCS)	Staff time, work days	Non-staff costs (CFP)
American	Completed		
Samoa Draft JCS:	Gear, equipment and boat charges/compensation for large circle hook study (through Western Pacific Regional Fisheries Management Council [WPRFMC] funding)	3	2,753,100
2009–2013	 *Technical assistance and fieldwork with implementing the large circle hook study (two trips through WPRFMC funding) 	65	1,434,520
	• *Technical assistance with finalising the community-based ecosystem approach to fisheries management model	8	279,368
	• 1 participant funded to be part of steering committee meetings for the future of fisheries study	Nil	509,000
	• Operational support (forms, data processing) for port sampling of domestic longliners	0.2	80,800
	 Planned *2 participants funded to regional workshop on community-based fisheries management at SPC Noumea 	Nil	500,000
Cook	Completed		
Islands	• *Technical assistance with coordinating bonefish management plan consultations in Aitutaki	6	220,000
JCS: 2007–2010	*Technical assistance with drafting Bonefish Fishery Management Plan	7	Nil
	• *Technical assistance with training in Aitutaki for guides for the sport fishing project	8	365,340
	• *Funding of a consultant and travel to undertake the training in Aitutaki for the sport fishing project	Nil	961,000
	• *Provided comments and advice on draft sea safety legislation	1	Nil
	• *Attachment training for one person in Suva in publication design and layout	15	413,540
	• *NTFSR in progress	20	Nil
	* In-country management consultation	7	220,000
	Participation in online stock assessment revision	1	Nil
	Processing of domestic longline data	0.3	Nil
	 * Support of national tuna database system 	24.6	119,700
	Support to Regional Observer Coordinators Workshop	0.5	Nil
	Attendance at stock assessment refresher workshop	0.5	Nil
	• Attendance at pre-assessment technical workshop	1	300,000
	 Planned *1 participant funded to Tahiti Aquaculture 2010 and shrimp workshop in Paraeta Franch Palmasia 	Nil	307,300
	 workshop in Papeete, French Polynesia *Partial funding of 1 participant to attend UN Food and Agriculture Organization (FAO) Global Aquaculture Conference in Thailand 	Nil	398,000
	 *2 participants funded to attend the SPC practical safety and fishing course for fisheries officers in Santo, Vanuatu 	Nil	100,000

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December) (* indicates activities covered by JCS)	Staff time, work days	Non-staff costs (CFP)
	• *2 participants funded to regional workshop on community-based fisheries management at SPC Noumea	Nil	510,000
	 Provision of in-meeting support at WCPFC Scientific Committee (SC) and WCPFC Annual Session 	3.7	55,600
Federated	Completed		
States of	• *Technical assistance with implementing community-based	23	665,010
Micronesia	ecosystem approach to fisheries management in Pohnpei and		
	development of management plan for the trochus fishery in Kosrae		
JCS: 2008–2012	 *Technical assistance with hands-on training in finfish survey methodologies in Pohnpei 	12	537,428
	• *Funding of 3 participants (1 Chuuk, 2 Yap) to attend finfish survey methodology training in Pohnpei	Nil	855,055
	 *Technical assistance with the development of post larval capture and culture 	7	425,000
	 *Technical assistance with the running of FAD fishing skills workshops 	12	573,000
	 *Technical assistance with developing a photoquad analysis tool for coral reef monitoring 	20	Nil
	 *Advice provided for the trochus management plan 	3	Nil
	 * Attendance at stock assessment/ecological risk assessment (ERA) workshop 	3	485,225
	 Processing of domestic and foreign licensed tuna fisheries data 	8.4	3,709,300
	 Frocessing of domestic and foreign incensed that inside its data * Support of national tuna database system 	24.6	Nil
	 Support of national tuna database system * Assistance with national tuna data coordination 	30	721,300
	 Assistance with national tuna data coordination * Attendance at Tuna Data Workshop 	2	430,100
	 Support to Regional Observer Coordinators Workshop 	0.5	Nil
	 support to Regional Observer Coordinators Workshop * 2 national observer training course (Jan.–Feb. and Jun.–Jul.) and 1 subregional (Nov.–Dec.) 	48	1,660,700
	National Tuna Data Workshop	21	Nil
	 Planned *Technical assistance and deployment of water temperature logging 	5	257,400
	 equipment (climate change project) *Production and launching of Fisheries Management Plan for the 	5	500,000
	 island of Pakin, Pohnpei, FSM * Provision of in-meeting support at WCPFC SC and WCPFC 	3.7	55,600
	 Annual Session *1 participant funded to attend the SPC practical safety and fishing 	Nil	380,000
	course for fisheries officers in Santo, Vanuatu2 participants funded to regional workshop on community-based	Nil	650,000
	fisheries management at SPC Noumea(Planned) Setup new server and TUFMAN v6 in Pohnpei/Training	10	4,600,000
Fiji	Completed		
Islands	 Participation in the joint country strategy mission to Fiji by 3 staff (1 Suva- and 2 Noumea-based) 	22	403,770
	 Technical assistance with the review of aquaculture legislation and decree 	5	Nil
	 Technical assistance with the designing and implementing of a fish- prawn farm pond inventory and farmer questionnaire 	3	Nil
	 Supervision of 5 Masters students at USP 	15	Nil
	 Supervision of 5 Masters students at USP Technical assistance with managing the process to translate the SPC 	10	Nil
	tilapia manual into Fijian and have manual printed	10	

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December) (* indicates activities covered by JCS)	Staff time, work days	Non-staff costs (CFP)
	Ongoing provision of advice and answering queries from ministry	days 5	Nil
	 ongoing provision of advice and answering queries from ministry and the private sector on aquaculture issues Funding of 1 participant to vulnerability and adaptation of coastal 	Nil	221,950
	fisheries to climate change workshop in Noumea2 participants funded to subregional workshop on CITES non-	Nil	394,000
	detrimental findings in Honiara	3	235,900
	Attendance at stock assessment/ERA workshop	0.2	
	Processing of domestic longline data	8	72,700
	Assistance with national tuna data coordination	0.5	120,000 Nil
	Support to Regional Observer Coordinators Workshop		
	Attendance at Tuna Data Workshop	2	291,300
	Planned	6	146,032
	 Technical assistance with review of Fiji inshore fisheries legislation Technical assistance with planning and logistics for sea cucumber spawning activities 	3	Nil
	 Partial funding of 1 participant to attend FAO Global Aquaculture Conference in Thailand 	Nil	100,000
	 1 participant funded to attend the SPC practical safety and fishing course for fisheries officers in Santo, Vanuatu 	Nil	125,000
	 Attachment training in Fiji for desktop publishing 	15	220,000
	 2 participants funded to regional workshop on community-based fisheries management at SPC Noumea 	Nil	460,000
	 1 participant funded to Tahiti Aquaculture 2010 and shrimp workshop in Papeete, French Polynesia 	Nil	343,500
	 Inputs to ecosystem approach to fisheries management (EAFM) (probable – not confirmed) 	10	250,000
	Participation in online stock assessment revision	1.0	Nil
	 Provision of in-meeting support at WCPFC SC and WCPFC Annual Session 	3.7	55,600
	Support of national tuna database system	24.6	200,000
French	Completed		
Polynesia	• *Funding for printing sea safety cards in Tahitian and Marquesan	4	240,000
2	*Technical advice provided on fish silage production	1	Nil
Draft JCS: 2010–2014	 *2 participants funded to subregional workshop on CITES non- detrimental findings in Honiara 	Nil	692,000
	 1 participant funded to be part of steering committee meetings for the future of fisheries study 	Nil	252,000
	 Planned *Technical assistance tentatively planned for tuna grading workshop, 	2	420,000
	 possibly using a consultant *Funding 12 resource and support people to Tahiti Aquaculture 	20	3,555,000
	 Conference and marine shrimp workshop *Attendance, preparation and participation of 3 staff in the Tahiti 	20	1,180,000
	 aquaculture conference and shrimp workshop Funding of 1 participant to a training on diagnosis and management 	Nil	164,000
	 of health problems in sea cage aquaculture *2 participants funded to regional workshop on community-based fisheries management at SPC Noumea 	Nil	540,000
	fisheries management at SPC NoumeaProvision of in-meeting support at WCPFC SC and WCPFC Annual Session	3.7	55,600
	 Operational support for observer and port sampling of domestic longliners 	Full time	18,401,500

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December) (* indicates activities covered by JCS)	Staff time, work days	Non-staff costs (CFP)
Guam	CompletedParticipation of one staff in the JCS consultations to represent the	5	205,000
Draft JCS: 2010–2014	coastal fisheries programmeAttendance at stock assessment/ERA workshop	3	350,000
	 Planned *1 participant funded to attend marine shrimp workshop as part of Tahiti Aquaculture conference 	Nil	330,000
	 Funding assistance to publish the draft Aquaculture Development Plan 	2	100,000
	• *2 participants funded to regional workshop on community-based fisheries management at SPC Noumea	Nil	530,000
Kiribati	Completed	10	276.065
JCS: 2008–2011	 *Technical assistance with the assessment and development of a management plan for Nonouti Island bonefish recreational fishery *Technical assistance and fieldwork for marine aquarium fish in 	10 15	276,065 582,994
	 rectificat assistance and nerowork for marine aquartum rish in Kiritimati *Funding of 2 local attachments for hands-on training in marine 	1	844,718
	 aquarium fish work in Kiritimati *Funding of short-term consultancy for the marine aquarium fish 	1	285,101
	industry in Kiritimati*Attachment training in Noumea for 1 staff involved with the marine	5	476,220
	aquarium fish work in Kiritimati*Technical assistance with developing a community-based	10	284,865
	 ecosystem approach to fisheries management programme *Technical assistance with the rigging and deploying of FADs around 11 islands in the Cilberts group 	45	777,650
	 around 11 islands in the Gilberts group *Technical assistance with growth and survival of hatchery produced white teatfish, juveniles released in the wild 	8	310,500
	 *Advice and support on the use of socioeconomic survey software 	3	Nil
	*Attendance to stock assessment/ERA workshop	3	304,500
	• Tagging cruise in the central Pacific with about 60% of the fishing time in Kiribati waters (Line and Phoenix Islands)	Nil	120,000
	 Planned *Technical assistance with small-boat sea safety, FAD fishing skills 	12	323,000
	 workshop, and deployment of FADs in Nonouti lagoon *Technical assistance with lagoon FADs (including materials) and 	12	550,000
	 developing community FADs as management alternatives *1 participant funded to attend the SPC practical safety and fishing course for fisheries officers in Santo, Vanuatu 	Nl	340,000
	 *2 participants funded to regional workshop on community-based fisheries management at SPC Noumea 	Nil	460,000
	 Provision of in-meeting support at WCPFC SC and WCPFC Annual Session 	3.7	55,600
	 Processing of domestic longline observer and port sampling data Assistance with national tuna data coordination 	2.9	1,299,000
	Support of national tuna database system	2.9	70,000
	• Tagging cruise in the central Pacific area with about 40% of the fishing in Kiribati waters (Phoenix and Gilbert Islands)	24.6 16	200,000 52,000
Marshall	Completed		
Islands	 *Technical assistance with training in the rigging and deployment of FADs 	11	466,780

August inclusive) ember) y JCS)	Staff time, work days	Non-staff costs (CFP)
community-based the development of	13	592,630
on CITES non-	Nil	384,000
юр	1	300,000
and FAD fishing	12	411,000
0 and shrimp	Nil	443,500
l safety and fishing	Nil	400,000
community-based	Nil	550,000
IS	2	Nil
and WCPFC Annual	3.7	55,600
р	3	370,400
	2	440,500
t	Ongoing 5	Nil Nil
, search and rescue	10	323,000
onduct a refresher	2	1,200,000
source development	5	250,000
Global Aquaculture	Nil	100,000
l safety and fishing	Nil	256,000
community-based	Nil	500,000
	5	242,300
1	1	Nil
a	1.2 24.6	531,200 200,000
	10.7	200,000 Nil
nber–December)	Nil	800,000
ange project in	15	526,700
3. r . J		
tion	3	Nil
n CITES non-	Nil	277,000
	25	20,000
ort sampling data	2.5 6.5	30,000 2,848,600
	t sampling data	2.5

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December)	Staff time,	Non-staff costs
	(* indicates activities covered by JCS)	work days	(CFP)
	Operational support for observer and port sampling of domestic	Full time	11,266,500
	longliners	1 011 01110	11,200,000
	Albacore tagging in New Caledonia waters	20	2,200,000
	Planned		
	• Technical assistance with fishing trials using tilapia as bait for tuna longlining	12	120,000
	 Technical assistance with presenting on database development to standardise environmental data collection 	1	Nil
	• Provision of in-meeting support at WCPFC SC and WCPFC Annual	3.7	55,600
	 Session 2 participants funded to Tahiti Aquaculture 2010 and shrimp 	Nil	677,000
	workshop in Papeete, French Polynesia	Nil	Nil
	6 participants attending regional workshop on community-based fisheries management at SPC Noumea	INII	INII
	• Support of national tuna database system (including one in-country	24.6	200,000
	visitTuna Observer system installation and training)	3	Nil
	 Attendance at Tuna Data Workshop 	2	Nil
New	Completed	_	
Zealand	 Albacore tagging in New Zealand waters 	30	5,980,000
Niue	Completed		
	• *Technical assistance with the revision of Niue's Fisheries Act,	7	256,727
JCS:	inshore coastal component		,
2009–2013	• *Advice provided for both community-based fisheries management and invertebrate resource surveys	2	Nil
	 Technical advice provided on fish silage production 	1	Nil
	 Attendance at stock assessment/ERA workshop (2 people) 	3	753,200
	Participation in online stock assessment revision	1	Nil
	• * Support of national tuna database system	24.6	200,000
	• Setup new server in Niue, TUFMAN V6 / training	9	340,400
	• Processing of domestic and foreign licensed tuna fisheries data	0.1	59,300
	Assistance with national tuna data coordination	8.5	291,600
	Attendance at Tuna Data Workshop	2	312,300
	Albacore tagging in Niue waters	9	3,570,000
	Planned		100.000
	• *2 participants funded to regional workshop on community-based	Nil	480,000
	fisheries management at SPC Noumea	3.7	55 600
	• Provision of in-meeting support at WCPFC SC and WCPFC Annual	5.7	55,600
	Session	5	Nil
Northern	Assistance with artisanal tuna catch monitoring (deferred late 2010) Completed		
Mariana	Completed*Technical assistance with organising and running a national	5	587,350
Islands	aquaculture planning workshop (two people)	5	507,550
	 *Consultancy and travel for the development of an aquaculture 	Nil	497,000
JCS: 2009–2013	strategic plan for the Commonwealth of the Northern Mariana Islands (CNMI)		
	 1 participant funded to be part of steering committee meetings for the future of fisheries study 	Nil	217,000
	 Planned *Final payment of consultancy to develop an aquaculture strategic 	Nil	300,000
	plan		

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December)	Staff time,	Non-staff costs
		,	
	(* indicates activities covered by JCS)	work	(CFP)
		days	
	• *1 participant funded to Tahiti Aquaculture 2010 and shrimp	Nil	393,500
	workshop in Papeete, French Polynesia		
	• *2 participants funded to regional workshop on community-based	Nil	500,000
	fisheries management at SPC Noumea		
Palau	Completed		
	Participation in online stock assessment revision	1	Nil
JCS:	• Setup new server and TUFMAN v6 in Palau / training	5	383,500
2009–2013	• *2 participants funded to subregional workshop on CITES non-	Nil	721,000
	detrimental findings in Honiara		
	• Attend and present at second Palau International Coral Reef Center	5	294,999
	(PICRC)/ Japan International Cooperation Agency (JICA) coral reef		
	monitoring project meeting		
	• Funding of one participant to vulnerability and adaptation of coastal	Nil	283,300
	fisheries to climate change workshop in Noumea		,
	• Processing of foreign licensed tuna fisheries data	1.6	701,400
	 Support of national tuna database system 	24.6	200,000
	 Assistance with national tuna data coordination 	7.5	88,300
	 Support to Tuna Data Workshop 	0.5	Nil
	Planned		
	• *1 participant funded to Tahiti Aquaculture 2010 and shrimp	Nil	245,500
	workshop in Papeete, French Polynesia	1 111	2.0,000
	 *2 participants funded to regional workshop on community-based 	Nil	540,000
	fisheries management at SPC Noumea	1 111	2.0,000
	-	3.7	383,500
	• Provision of in-meeting support at WCPFC SC and WCPFC Annual	5.7	565,566
	Session	7	385,400
D	Training for biological sampling for observers and port samplers	/	505,400
Papua	Completed	N71	220.000
New Guinea	• 1 participant funded to subregional workshop on CITES non-	Nil	329,000
Guinea	detrimental findings in Honiara		
	• Attachment training at SPC for 1 person from National Maritime	4	Nil
	Safety Authority (NMSA) covering sea safety issue		
	• Attendance at stock assessment/ERA workshops (2 people)	3	694,200
	Participation in online stock assessment revision	1	Nil
	Processing of domestic and foreign licenced tuna fisheries data	12.8	5,626,400
	Attendance at Tuna Data Workshop	4	340,400
	Assistance with national tuna data coordination	5	Nil
	Planned		
	• Technical assistance with reviewing the current aquarium fish trade	10	450,000
	operations and approach		
	• 1 participant funded to attend the SPC practical safety and fishing	Nil	283,000
	course for fisheries officers in Santo, Vanuatu		
	• Partial funding of 1 participant to attend FAO Global Aquaculture	Nil	100,000
	Conference in Thailand		
	• Participation of staff in the development of FAME component of the	10	500,000
	JCS for PNG		
	• 1 participant funded to Tahiti Aquaculture 2010 and shrimp	Nil	453,500
	workshop in Papeete, French Polynesia		
	 2 participants funded to regional workshop on community-based 	Nil	460,000
	fisheries management at SPC Noumea		
	 (Planned) - Setup new scanning system in PNG / training 	3	250,000
	 Provision of in-meeting support at WCPFC SC and WCPFC Annual 	3.7	55,600
	Session		
	56551011	I	I

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December) (* indicates activities covered by JCS)	Staff time, work days	Non-staff costs (CFP)
	 Attendance at Regional Observer Coordinators Workshop Provision of ad hoc tuna fishery data summaries for internal studies Training support at 3 observer training courses 	1.5 3 66	332,800 Nil
Pitcairn	Planned		1,190,700
Islands	• 2 participants funded to regional workshop on community-based fisheries management at SPC Noumea	Nil	300,000
JCS: 2009–2013			
Samoa	Completed		
Draft JCS:	• *Technical assistance with the finalisation of a community-based ecosystem approach to fisheries management model	10	295,428
2010-2013	• *Technical assistance with initial consultations for the development of a national coastal fisheries plan and finalise Fisheries Bill	10	240,125
	• *Technical assistance with the rigging and deploying of 6 FADs	12	307,000
	• Funding of one participant to vulnerability and adaptation of coastal fisheries to climate change workshop in Noumea	Nil	206,550
	 *2 participants funded to subregional workshop on CITES non- detrimental findings in Honiara 	Nil	652,000
	• NTFSR completed	15	Nil
	Support of national tuna database system	24.6	200,000
	Assistance with national tuna data coordination	5 2	22,500 221,400
	Attendance at Tuna Data Workshop * Attendance to stock account (TDA workshop	3	301,200
	*Attendance to stock assessment/ERA workshop Planned	5	501,200
	 *1 participant funded to Tahiti Aquaculture 2010 and shrimp workshop in Papeete, French Polynesia 	Nil	429,000
	 *2 participants funded to regional workshop on community-based fisheries management at SPC Noumea 	Nil	460,000
	 Provision of in-meeting support at WCPFC SC and WCPFC Annual Session 	15	55,600
	Attendance at Regional Observer Coordinators Workshop	3.7	324,200
Solomon Islands	• *Technical assistance with stakeholder consultations on the possible	5	Nil
	introduction of the genetically improved farmed tilapia (GIFT)	-	
JCS: 2009–2012	• *Layout and printing of draft tilapia management plan for in-country stakeholder consultations	5	53,750
	Processing of domestic and foreign licensed tuna fisheries data	5	2,195,100
	• Setup TUFMAN v6 in-country/training	3	150,000
	 * Support of national tuna database system Assistance with national tuna data coordination 	24.6 15	200,000 375,000
	 Assistance with national tuna data coordination *Attendance to stock assessment/ERA workshop 	3	319,000
	Planned	U	219,000
	 *Technical assistance with initial stage of FAD programme in sourcing materials for up to 30 inshore FADs 	3	1,500,000
	 *Funding a consultancy to undertake a risk assessment of introducing the GIFT tilapia to areas of the Solomon Islands where tilapia are already found 	2	1,500,000
	 *Technical assistance with developing regulations in support of the new Fisheries Act 	3	Nil

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December) (* indicates activities accorded by JCS)	Staff time,	Non-staff costs
	(* indicates activities covered by JCS)	work days	(CFP)
	 *1 participant funded to Tahiti Aquaculture 2010 and shrimp workshop in Papeete, French Polynesia 	Nil	373,000
	• *2 participants funded to regional workshop on community-based fisheries management at SPC Noumea	Nil	500,000
	 Provision of in-meeting support at WCPFC SC and WCPFC Annual Session 	3.7	55,600
	 Support to Regional Observer Coordinators Workshop 	0.5	Nil
Tokelau	Completed		
Draft JCS: 2008–2010	• *Technical assistance with the development of an inshore fisheries data collection system for fish leaving Tokelau including creel and household surveys	8	141,725
	• * Technical assistance with input provided to the tuna fishery development plan in collaboration with FFA	2	Nil
	• *Technical advice provided on FAD technologies, fishing skills and sea safety	2	Nil
	• Attendance at stock assessment/ERA workshop	3	350,000
	• EAFM and TMP inputs and reviews	20	400,000
	NTFSR completed	20	Nil
	 Participation in online stock assessment revision 	1	Nil
	Attachment to work on NTFSR	5	200,000
	Assistance with national tuna data coordination	1.5	25,000
	Assistance with WCPFC data submission	1	Nil
	• 1 tuna statistics attachment	2	379,000
	 Planned *2 participants funded to regional workshop on community-based 	Nil	500,000
	fisheries management at SPC NoumeaProvision of in-meeting support at WCPFC SC and WCPFC Annual	3.7	55,600
	 Session Tagging cruise in the central Pacific area with about 10% of the time 	4	13,000
Tongo	in Tokelau waters		
Tonga	Completed*Technical assistance with monitoring of the live rock coral farming	13	224,540
JCS:	project	15	224,540
2009-2013	 Participation in online stock assessment revision 	1	Nil
	 * Attendance at stock assessment/ERA workshop 	3	319,100
	 * Support of national tuna database system 	24.6	200,000
	Processing of domestic longline data	0.9	401,700
	• TUFMAN v6 installation/training (one in-country visit)	5	240,000
	• * Assistance with national tuna data coordination	10	21,000
	• * Attendance at Tuna Data Workshop	2	247,300
	Albacore tagging in Tongan waters	12	3,575,000
	Planned		
	 *Technical assistance with conducting surveys for trochus and beche-de-mer 	12	1,000,000
	• *Technical assistance with conducting an initial assessment of deep- water snapper fishing data	5	Nil
	 *Finalise Community-based Ecosystem Approach to Fisheries Management (CEAFM) model and review CEAFM programme 	10	280,000
	 *Partial funding of 1 participant to attend FAO Global Aquaculture Conference in Thailand 	Nil	100,000
	 *1 participant funded to Tahiti Aquaculture 2010 and shrimp workshop in Papeete, French Polynesia 	Nil	393,500

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December) (* indicates activities covered by JCS)	Staff time, work days	Non-staff costs (CFP)
	• *2 participants funded to regional workshop on community-based	Nil	500,000
	fisheries management at SPC Noumea		
	• Provision of in-meeting support at WCPFC SC and WCPFC Annual	3.7	55,600
	Session		
	Support to Regional Observer Coordinators Workshop	0.5	Nil
Tuvalu	Completed	0	246 120
JCS:	• *Technical assistance with review of the tuna management and	8	246,130
2008–2012	development plan and legislation	20	NL1
2000-2012	* NTFSR in progressParticipation in online stock assessment revision	20 1	Nil Nil
	 Participation in online stock assessment revision Setup new network and TUFMAN v6 in Tuvalu/training 	1 7	375,000
	 Processing of foreign licensed tuna fisheries data 	1.3	555,400
	 Assistance with national tuna data coordination 	10.7	607,500
	 Assistance with national tina data coordination * Support of national tuna database system 	24.6	200,000
	 Attendance at Tuna Data Workshop 	2	311,000
	 1 tuna statistics attachment 	2	388,700
	Planned		
	 *Technical assistance with capacity building in rigging and deploying 8 FADs, around 4 atolls 	12	323,000
	• *1 participant funded to attend the SPC practical safety and fishing	Nil	294,000
	 course for fisheries officers in Santo, Vanuatu *2 participants funded to regional workshop on community-based 	Nil	500,000
	fisheries management at SPC Noumea	1	Nil
	 * Data summaries for access negotiations provided Provision of in-meeting support at WCPFC SC and WCPFC Annual 	3.7	55,600
	SessionAttendance at Regional Observer Coordinators Workshop	1.5	269,300
	• Tagging cruise in the central Pacific area with about 20% of the time in Tuvalu waters	8	26,000
Vanuatu	Completed		
	• *Technical assistance with the sustainable and improved farming of	5	254,600
Draft JCS:	Macrobrachium lar		
2010-2015	• *Funding of a local counterpart for fieldwork on the sustainable and	Nil	115,200
	 improved farming of <i>Macrobrachium lar</i> *Technical assistance with input to an overarching strategy for 	5	127,940
	agriculture and fisheries*Technical assistance with the laying out and publishing of the	5	150,000
	Vanuatu Fisheries Regulations	_	
	*Funding of one participant to vulnerability and adaptation of coastal fisheries to climate change workshop in Noumea	5	123,600
	• *Technical assistance with the planning for specific publications: fish posters and fisheries regulations	5	130,000
	• Participation in the JCS discussions as the coastal fisheries	5	143,000
	programme representativeTechnical assistance with the recovery of data from a crashed server	1	Nil
	• *2 participants funded to subregional workshop on CITES non-	Nil	513,000
	detrimental findings in Honiara	4	100,000
	• Technical assistance with framework for a productive sector strategy	3	250,000
	 Attendance at stock assessment/ERA workshop Setup new server and TLIEMAN v6 in Vanuatu / training 	5	149,800
	 Setup new server and TUFMAN v6 in Vanuatu / training Processing of domestic and foreign licensed tune fisheries data 	0.3	113,500
	 Processing of domestic and foreign licensed tuna fisheries data Support of national tuna database system 	24.6	Nil

Country	Activities for 2010 (completed (January to August inclusive) and planned (September to December) (* indicates activities covered by JCS)		Non-staff costs (CFP)	
	Planned			
	• *Technical assistance with improvement of clownfish aquarium systems and fish husbandry methods	6	200,000	
	• *Printing of two fish posters and shipping costs	5	400,000	
	• *Printing of new Fisheries Regulations and shipping costs	15	200,000	
	• *Hire of facilities, vessels and purchase of equipment for regional fisheries officers course, Santo, Vanuatu	Nil	2,000,000	
	• *2 participants funded to attend the SPC practical safety and fishing course for fisheries officers in Santo, Vanuatu	Nil	107,000	
	 *2 participants funded to regional workshop on community-bases fisheries management at SPC Noumea 		400,000	
	Provision of in-meeting support at WCPFC SC and WCPFC Annual Session	3.7	55,600	
	Attendance at Tuna Data Workshop	2	20,400	
	• Attendance at Regional Observer Coordinators Workshop	30	1,144,400	
	• Assistance with national tuna data coordination	10	30,000	
Wallis and	Completed			
Futuna	• 1 participant funded to be part of steering committee meetings for the future of fisheries study	Nil	141,000	
JCS: 2009–2013	• * Attendance at Tuna Data Workshop Planned	2	245,400	
	 *Assistance with printing sea safety checklist in Wallisian and Futuna languages 	6	250,000	
	 *1 participant funded to attend the SPC practical safety and fishing course for fisheries officers in Santo, Vanuatu 	Nil	222,000	
	 *2 participants funded to regional workshop on community-bases fisheries management at SPC Noumea 	Nil	450,000	
	 Provision of in-meeting support at WCPFC SC and WCPFC Annual Session 	3.7	55,600	

Annex 4

Progress against strategic plan objectives

DIRECTOR'S OFFICE

Objective 1: To develop and sustain effective relationships between the division and its stakeholders

Results	2010 activities	Status
1.1: Programme	1. Mini Heads of Fisheries meeting is held in Honiara in May, with discussion	1. Completed with some important new work priorities identified
plans and	of work programmes	
activities that	2. 2010 work programmes completed by March, with >80% implementation	2. Programme plan completed – on target for achievement
respond to the	of activities during the year	
needs and	3. Effective participation in 5 JCS missions; JCS reports used as basis for	3. FAME staff participated in JCS missions to Guam, Vanuatu, Fiji
priorities of	activity planning in 2010	Islands – New Caledonia, PNG planned for later this year
members	4. Regular visits to member Fisheries Departments for consultations; meet	4. Visits to Solomon Islands, Vanuatu, PNG; covered 4 regional
	with all heads of fisheries on fringes of regional meetings; regular email communications	meetings of senior fisheries staff
	5. Future of Fisheries study (including meeting with member representatives)	5. Study completed, with high level endorsement
	completed and report presented to Forum Leaders	
	6. Review of Pacific Islands Regional Ocean Policy (PIROP) initiated during	6. PIROP review coordinated by Marine Sector Working Group and
	the year after Forum Leaders' endorsement	presented to PPAC
	7. Ensure that Divisional reporting requirements - to CRGA, donors and	7. Ongoing – on track
	others – are met	
1.2: Effective	1. FFA/SPC technical meeting and colloquium successfully completed, with	1. Productive meeting held with agreement on work priorities, and a
working	follow-up actions undertaken	new joint funding proposal for observer support
relationships	2. SPC/IRD memorandum of understanding is renewed and projects to utilise	2. Final draft memorandum of understanding agreed; project using
maintained with	ProcFish data are agreed	ProcFish data in progress
other regional agencies and	3. Marine Sector Working Group (MSWG) meets twice during the year and develops submissions to CROP heads and/or Forum	3. 2 meetings held and Framework for Oceanscape Initiative completed and commended by Forum Leaders
development	4. AusAID food security project approved by end of June	4. Food security project passed peer review but final agreement delayed
partners	5. SciCOFish and DevFish 2 contribution agreements are signed before end of	5. SciCoFish on track, DevFish Contributions Agreement still pending
-	April	
	6. GTZ project and/or new AusAID International Climate Change Adaptation	6. Climate change monitoring project approved; GTZ design includes
	Initiative (ICCAI) programme include marine resources components	marine resources subject to final endorsement
	7. Fisheries issues are addressed in regional food security summit and strategy	7. Adequate treatment of fisheries in food security summit

8. Appropriate funding mechanisms are developed/app	proved to continue key 8. Concep	pt note to FFEM approved; EDF10 projects still at design
activities of CRISP project 9. ETM system introduced and functioning for in	nproved reporting on 9. ETM is	introduced to coastal fisheries programme and working
activities and training		F - 28-mini

Objective 2: To promote informed policy decisions and public awareness of marine resource issues in the Pacific

Results		2010 activities		Status
2.1: Policy-	1.	At least 2 awareness, scientific, technical or training materials related to	1.	Future of Fisheries reports ready for distribution; policy brief on
makers and the	l	regional fishery policies or marine resource issues are designed and		FADs planned
general public	l	distributed throughout the region		
are better	2.	Awareness materials or policy-related documents are designed and	2.	Fish posters and regulations for Vanuatu; work for Solomon Islands
informed of	l	produced for at least 3 countries or territories		and Samoa under discussion
marine resource	3.	All FAME-produced documents are made available to the general public	3.	Key documents already available, transfer of documents to new
issues, the	l	on SPC website		website continues
importance of	4.	FAME and CFP websites are reviewed, redesigned and reorganised to	4.	New websites are up and running; OFP site nearing completion
fisheries and the	l	provide a more user-friendly access to the information available		
need for	5.	Regional media are regularly informed of regional marine resource issues,	5.	Various press releases and radio interviews provided on aquaculture
management	l	and FAME activities and outputs, through the provision of press releases		and oceanic fisheries issues
action		or articles for the newspapers		
2.2:	1.	3 issues of the SPC Fisheries Newsletter are published in English and	1.	2 completed, 1 in progress
Stakeholders in	1	French		
PICTs are fully	2.	6 issues of SPC's special interest group information bulletins, related to	2.	All 6 to be completed by year end
informed of the	l	important marine resource issues, are published in French and English		
results of SPC	3.	An updated version of SPC Fisheries Address Book, which gives access to		
activities, and	l	more than 1200 regional fishery-related contacts, is produced and	3.	All completed
shared	l	distributed; an updated fully-searchable digital library with all FAME		
experience and	l	publications available in digital format is produced on a DVD, which is		
knowledge	1	distributed throughout the region, and on SPC's website		
across the	4.	Results of SPC activities are documented in various media, such as the		
region	l	SPC website and the SPC Fisheries Newsletter		
	5.	Effectiveness of the distribution of SPC's fisheries-related publications	4.	Website regularly updated with SPC activities; newsletter likewise
	1	throughout the region is reviewed and measures are taken to ameliorate	5.	Study carried out in 1 country as an example (Fiji Islands) and plans
		stakeholders' access to these materials		developed to improve distribution

COASTAL FISHERIES PROGRAMME OBJECTIVES AND OUTPUTS

Objective 1: To assist governments and administrations in the development of scientifically informed and socially achievable coastal fisheries management policies and systems in line with guiding principles of the Apia Policy

Results		2010 Activities		Status
1.1: Assessment	1.	Training provided in appropriate methodologies and assistance in	1.	Training provided in Pohnpei, FSM, including trainees from other
of the status of		assessment of aquarium/live reef fisheries provided to 2 countries		States and Kiribati
national coastal	2.	Assistance provided to 3 countries in developing and implementing		
living marine		standardised coastal fisheries monitoring protocols and databases	2.	Activity deferred to 2011 due to late start of SciCOFish project and
resource user	3.	Training provided in coastal fisheries data analysis for 2 countries		the recruitment of staff, and the need to refine monitoring protocols
groups, impact	4.	Regional data repository maintained and national data provided for		with other organisations and NGOs
on resource,		backup from at least 3 countries/fisheries	3.	Training provided to Kiribati for analysis of aquarium fish data and
existing impact	5.	Monitoring and data needs identified and assessments completed for		to FSM for photo quadrat data of corals
management		finfish fisheries in 3 countries	4.	Regional database maintained with data received from FSM for
systems, and the	6.	Invertebrate resources assessment provided for at least 2 countries	_	photo quadrats; no other data received
current status of	7.	Develop database modules for market/creel surveys	5.	Data needs identified through JCS's for Marshall Islands, Samoa
the resources	8.	At least 1 subregional workshop covering monitoring protocols, data	-	and Vanuatu, with assessment work to start in late 2010
themselves, in	0	collection and analysis	6.	Invertebrate assessment assistance planned for Tonga in later 2010
order to inform	9.	Underwater visual census methodology manual produced and	-	and advice provided to Niue
management	10	disseminated to member countries	7.	Databases for market and creel surveys deferred to 2011
	10.	Invertebrate methodology manual produced and disseminated to member countries	8.	Activity deferred to 2011 due to late start of SciCOFish project
	11.	Reports on all resource assessment available to countries within 1 month	9.	Activity deferred to 2011 to be able to include outcomes from
		of providing technical assistance		regional workshop on community-based and monitoring
			10.	Activity deferred to 2011 to be able to include outcomes from
				regional workshop on community-based and monitoring
			11.	Reports to be provided as scheduled

1.2: Assistance	1.	Marine aquarium/live reef fisheries policy/management framework	1.	Framework and stakeholder consultations completed in Nauru and
to members, in		completed in at least 2 countries		Kiritimati, Kiribati
partnership with	2.	At least 5 countries receive capacity building and provided with	2.	CEAFM capacity building and assistance undertaken in American
other		assistance in reviewing/developing CBFM incorporating EAF principles		Samoa, Pohnpei (FSM), Kiribati, Marshall Islands and Samoa
stakeholders, in				
developing an	3.	Assistance provided to at least 3 counties to develop species specific		
appropriate mix		management plans or resources profiles	3.	Assistance provided to Cook Islands (bonefish management plan)
of community-	4.	Assistance provided to at least 3 countries for the coastal component of		Kiribati (bonefish management plan) and FSM (trochus plan)
based		legislation reviews/development	4.	Assistance provided to Samoa, Tuvalu and Fiji Islands (aquaculture
approaches and	5.	National legislation ready for endorsement in 1 country (this is a multi-		decree) and planned for Solomon Islands and Fiji (inshore)
national	0.	year process)	5.	Assistance provided to Tuvalu in collaboration with FFA, with draft
management	6.	Under coastal component of SciCoFish, assess monitoring, assessment	5.	legislation nearing completion; legislation for Samoa with Attorney
arrangements,	0.	and management needs in all 14 Pacific ACP countries		General's office
incorporation of	7.	Regional workshop with NGOs is held, with discussions on assessing and	6.	Activity changed with JCS priorities used to start and assessments
ecosystem-based	/.	standardising monitoring methods, data collection, identifying forms of	0.	of countries to be staggered over 2011 and 2012
			7.	Major regional workshop planned for late November to bring
principles, and	0	data suited for management requirements	7.	
the review of	8.	Establish stronger collaborative working partnerships with NGOs		together main organisations and NGO involved with community-
coastal fisheries		working towards similar goals/objectives		based management and monitoring
legislation				
			8.	Relationships and partnerships strengthened with NGOs through
				participation at nature conservation roundtable
1.3: Practical	1.	Training provided to at least 2 countries to develop and disseminate	1.	Attachment training provided to 1 Cook Islands and 1 Fiji Fisheries
assistance to		fisheries information		Officer in desktop publishing (design and layout)
members in the	2.	Fisheries website development training provided for at least 1 country	2.	Activity deferred to 2011
designing and	3.	Coastal fisheries posters revise/developed for at least 2 countries		
targeting of			3.	2 posters are planned for revision for Vanuatu
appropriate				
awareness				
raising and				
educational				
information				
mormation			l	

Objective 2: To provide a regional framework for sustainable aquaculture, in the areas of planning, research, development and trade, for Pacific Island governments, private enterprises and other stakeholders

Results	2010 activities	Status
2.1: Improved regional	1. Aquaculture Planning Workshop in 2 countries	1. Planning workshop held in CNMI
and national capacity for	2. Participate in 2 JCS, programme missions	2. Participation in Fiji Islands and Guam JCS missions
strategic policy, planning	3. Aquaculture commodity development plans published for	3. Plans underway for Wallis and Futuna, Tonga and CNMI; should be
and administration to	3 countries	completed by the end of the year
establish clear priorities	4. Independent consultant economist to review	4. Activity deferred to late 2010 or early 2011 as a result of staffing and
and enable the	aquaculture/mariculture	funding issues; participated in FAO study
aquaculture sector to	5. Impact and adaptation of aquaculture to climate change	5. Chapter drafted and will be completed by the end of 2010
meet current and future	chapter completed	
needs, with the guidance	6. Participation in climate change conference, Japan and	6. Conference attended and paper presented at Japan meeting; attended
of the SPC aquaculture	ACIAR/WFC project for inland tilapia food security	consultation on WorldFish tilapia project
action plan 2007	7. PNG program mission food security	7. Activity may be undertaken as part of JCS mission in late 2010 or deferred
		to 2011
		8. Activity deferred to 2011 due to staffing issues in section
	9. Key organizers for Tahiti Aquaculture Conference, Tahiti	9. Organisation of Tahiti conference on track
		10. Funding sourced from FAO for Global Aquaculture conferences for 5
	Aquaculture Conference, Thailand and attend as panellist	PICTs with partial funding assistance from SPC
	11. Regional review of aquaculture statistics published	11. Review of aquaculture statistics published
	12. Participate FAO statistics party (CWP), Australia	12. Attended FAO statistics meeting as scheduled
	13. Organise CITES Regional Workshop, Honiara	13. Organised and participated in Honiara CITES workshop in collaboration with CITES secretariat and SPREP
	14. Organise SPC Regional shrimp Workshop, Noumea	14. Workshop organised but will now form part of the Tahiti Aquaculture Conference
	15. Participate in Australasian Aquaculture Conference,	15. Attended and participated at workshop
	Australia	16 A granulture monthly monthly undertail with monthet with the
	16. Aquaculture Portal updated with statistics and market notices	
	nouces	information, publications etc.

2.2: Increased skills and	1. Field and desktop review of marine shrimp industry	1. Consultant hired to do the review with results planned for presentation at
knowledge base in the	presented to SPC regional shrimp workshop	workshop in December
SPC region and its	2. Report for FAO global seaweed socio-economic review	2. Fieldwork conducted in 2009 with final report provided in early 2010 as
member countries and	(Solomon Islands case study) submitted	scheduled
territories, so as to	3. Mini-project: 13 projects implemented across 6 countries	3. All mini-projects are progressing well in the 6 countries (Kiribati, Samoa,
maximise the return on		Vanuatu, Solomon Islands, Tonga and Fiji Islands)
investments in	4. Visit to assist ornamental fish industry on Christmas Island	4. Activity completed
aquaculture through	5. Post larval capture trials for ornamental trade in FSM	5. Activity completed
innovative, profitable and	6. Programming mission to Cook Islands pearl industry	6. Activity deferred to 2011
sustainable approaches	7. Proceedings of tilapia expert consultation published	7. Proceedings will be drafted by the end of 2010
	8. Assist Samoa Fisheries with tilapia broodstock	
	introduction and post-tsunami recovery	Islands, with some follow-up undertaken in 2010
	9. Assist lobster and scallop culture trials, New Caledonia	9. Main activity completed with some ongoing inputs
	10. Support to all current mini-projects (12) including those	10. Ongoing support provided for all mini-projects
	being supervised by James Cook University and USP	
	directy	11. Ongoing support and supervision is being provided to the Masters students
	11. Support or supervision by section staff of ACIAR Mini-	and PhD student
	Project related MSc students (5 current, 3 pending) and	
	PhD (1 current)	12. Formulation support provided to meet all deadlines
	12. Ongoing project formulation support for EDF10 project for	
	small and medium enterprises 13. Participate in regional JICA training course (mariculture	12 Activity has alwayed and now the IICA training will occur in Fiji Islands in
	diversification), Okinawa	13. Activity has changed and now the JICA training will occur in Fiji Islands in October with assistance planned
	14. Submit joint project (IFREMER – French Research	
	Institute for Exploitation of the Sea) for aquaculture feeds	
	from tuna fish meal in Fiji Islands, PNG	progress to date
	15. Review status of freshwater fisheries and opportunities for	15. Activity deferred to 2011
	culture based fisheries	
	16. Support invertebrate (trochus, giant clam, sea cucumber)	16. Collaborating with JCU and ACIAR on Fiji Islands sandfish hatchery work
	restocking initiatives	and re-stocking, plus organising an international symposium on sea
		cucumber re-stocking for early 2011

2.3: Competent	1.	Provide desktop advise on introductions as needed	1.	This is an ongoing activity
authorities established	2.	Assist Solomon Is introduction of Nile tilapia	2.	Assistance being provided to undertake a risk assessment of a possible
and/or supported, using				introduction of the GIFT through a consultancy
science-based approaches	3.	Assist Kiribati sea cucumber introduction	3.	Mini-project undertaken and completed in Kiribati
to manage aquatic	4.	Organise regional training workshop for OIE disease	4.	Regional workshop arranged jointly with CITES and SPREP and held in
biosecurity risks and to		reporting for key PICTs exporting live aquatics to the EU		Solomon Islands
facilitate trade	5.	Scoping for private sector trade study tour	5.	A tour was undertaken in 2009, with no tour scheduled for 2010
	6.	Trade statistics published in regional aquaculture review	6.	Publication produced with aquaculture statistics for the Pacific
	7.	Aquaculture portal is updated with trade statistics (official	7.	Web portal regularly updated with statistics as they come to hand
		and provisional)		

Results	2010 activities	Status
3.1: Subsistence,	1. Officer responsible for the DevFish-2 project is recruited and project is	1. Recruitment process undertaken in July, no appointment possible
artisanal, sport and	started	until Contribution Agreement signed, planned for late 2010
industrial fishing	2. An HRD plan for the fisheries sector is produced/updated in at least 1	2. Review of HRD plan for Nauru tentatively planned for late in 2010
activities within	country	
the sustainable	3. A Tuna Fisheries Development Plan is produced/updated in collaboration	3. Input provided to the Tokelau tuna fishery development plan in
production level of	with FFA, in at least 1 country	collaboration with FFA and an FFA-funded consultant
the available	4. The Action Plan for sport-fishing development in Cook Islands is fully	
fisheries resources	implemented and at least 2 local guides operate sustainably	with 7 prospective guides trained and 2 sustainable operations
	5. A feasibility study for sport-fishing development is conducted in at least	5. Activity possibly deferred to 2011
	1 other PICT	
	6. A giant trevally tagging project is ongoing in New Caledonia	6. Project is ongoing; over 200 fish tagged so far
	7. A small-scale pole-and-line fishing project is started in the Solomon	
	Islands, in collaboration with FFA, with technical and training inputs	this is a collaborative activity; possibly deferred to 2011
	from the Nearshore Fisheries Development Section (NFDS) including an	
	assessment of community-based bait fishing to supply fishing operations	
	8. A pilot project is implemented in New Caledonia to test tilapia as bait for	8. Planned for late in 2010
	tuna longlining	
	9. Funding is secured for a major FAD conference in 2011	9. Funding secured for the FAD conference in 2011
	10. NFDS Web portal is up and running	10. NFDS Web portal operational and being maintained

3.2: Resource	1. FAD projects are implemented with extensive capacity-building in at	1.	FAD project technical assistance and capacity building provided to
materials, advice	least 3 PICTs and advice/technical assistance is provided to a minimum		Samoa, Pohnpei (FSM), Kiribati, Marshall Islands, and planned for
and training in	of 5 other PICTs	-	Nauru and Tuvalu
appropriate fishing	2. FAD fishing workshops are conducted with parallel training of	2.	FAD fishing skills workshops planned for Kiribati and Marshall
techniques and	counterparts in at least 3 PICTs	-	Islands, with French Polynesia deferred to 2011 at their request
technologies	3. Hook standardisation projects are conducted in at least 2 PICTs	3.	Hook exchange projects undertaken in New Caledonia (north
			province) and American Samoa
	4. NFDS remains active on the bycatch mitigation front with ongoing	4.	Attendance at international bycatch reduction workshop (coral
	awareness-raising in PICTs and inputs to regional initiatives		triangle fishers' forum) and regional false killer whale take
			reduction meeting; upgrading and printing of 2,000 turtle ID cards
	5. Small boat safety training is conducted with parallel counterpart training	5.	Sea safety training planned for Nauru, Kiribati, Tuvalu and
	in at least 3 PICTs		Marshall Islands as part of FAD assistance work
	6. Collaboration on sea safety issues with FAO and other	6.	Attendance at FAO international workshop on sea safety for small
	regional/international organisations is ongoing		boats
	7. At least 1 regional fisheries course or workshop is organised and	7.	Regional practical safety and fishing course for fisheries officers in
	implemented		Santo, Vanuatu planned; 12 participants from 10 countries
	8. Vernacular versions of the SPC small boat safety checklists are produced in at least 2 PICTs	8.	Sea safety checklist in local languages in French Polynesia and planned for Wallis and Futuna
	9. 1 Sea Safety information bulletin is produced in both English and French	9.	Bulletins produced as scheduled
	10. A set of guidelines for the safe handling and release of inshore sport-		Guidelines are being drafted for printing in late 2010
	fishing fish species is produced	10.	Surgering and comparation printing in two 2010
	11. A technical manual on small-scale bait fishing methods is produced	11.	. Manual completed and will be printed in late 2010
	12. A brochure on satellite imagery for fish finding is produced		Materials for brochure collected with printing scheduled for late in
			2010
	13. Advice is given on the development of a fisheries curriculum for	13.	Activity deferred to 2011
	vocational training in at least 1 PICT		
3.3: Optimum	1. Training in onboard catch handling is provided to local fishers in at least	1.	Training will be conducted in Kiribati, Marshall Islands and French
benefits from the	3 PICTs		Polynesia as part of FAD assistance work
resource through	2. A tuna grading workshop is organised and conducted in at least 1 PICT	2.	Tentatively planned for late 2010 in French Polynesia
improved seafood	3. Assistance and/or training in the area of Competent Authorities and	3.	Activity deferred to 2011 because contribution agreement for
quality standards	seafood safety standards is started as part of the DevFish-2 project		DEVFISH project not signed until late 2010
and value-adding	4. Technical assistance and/or advice on the utilisation of fish offal to	4.	Advice on fish silage has been provided to New Caledonia, Niue
	produce fish silage is provided to at least 3 PICTs		and French Polynesia

OCEANIC FISHERIES PROGRAMME OBJECTIVES AND OUTPUTS

Objective 1: To provide high-quality scientific information and advice for regional and national fisheries management authorities on the status of, and fishery impacts on, stocks targeted or otherwise impacted by regional oceanic fisheries

Results	2010 activities	Status
1.1: Regional oceanic fisheries management policy and decision- making by WCPFC are informed by the best science-based stock	1. Undertake stock assessments for target and non-target species as requested by the commission, including exploration of sensitivity of stock assessment outcomes to structural assumptions in models and data issues, including the comparison of various stock assessment models (bigeye and skipjack in 2010; SC working papers)	1. Completed; assessments provided for bigeye and skipjack tuna, as requested by the Commission (SC papers SA-WP-01, SA-WP-04, and SA-WP-11), including investigation of sensitivity to assumptions about model structure and data
assessments and advice	2. Host Stock Assessment preparatory workshop (SC information paper)	 Completed; workshop hosted 6-10 April 2010 (SC paper SA-IP- 01)
	 Post input and output files for key model runs on the OFP website Publish Tuna Fishery Assessment Report (TFAR) following 2010 assessments 	 Completed: Files posted on OFP website, August 2010 <i>Planned</i>: TFAR under development following 2010 assessments
	5. Undertake analyses of longline catch and effort data, and data for other fishing gear types where appropriate, including, where appropriate and possible, operational-level data to construct indices of stock target and non-target species (bigeye, yellowfin, and skipjack in 2010; SC working papers)	 Completed: Analyses of longline (for bigeye and yellowfin) and pole and line (for skipjack) catch and effort data carried out and results used in 2010 stock assessments (SC working papers SA- WP-02, SA-WP-03, SA-WP-08, and SA-WP-09)
	 Manage, develop and further refine the stock assessment model, MULTIFAN-CL and associated visualisation software and networking software, including simulation testing of new developments as appropriate and refinement of models for catch per unit effort (CPUE) standardisation (SC information paper) 	 Completed: Multifan-CL further developed, including simulation testing of new developments (SC papers ME-WP-01, MI-WP-01)
	 Update stock assessment modelling software and documentation paper) Update stock assessment modelling software and documentation posted on the MULTIFAN-CL website www.multifan-cl.org Given adequate data, assess the effectiveness of Conservation and Management Measure (CMM)-2009-04, including any alternative measures for the management of shark stocks in the convention area, as appropriate (WCPFC paper) 	 Completed: Updated stock assessment software posted on website in August 2010 Assessment of CMM-2009-04 effectiveness has not been requested by WCPFC, and it may not be possible for SPC to assess it due to lack of adequate data

	 Provide preliminary advice on the stock status of key shark species and a three-year shark research plan for 2011-2013 (SC progress report and WCPFC paper) Provide available data, information, and advice for evaluating the impact of, and compliance with, the various provisions of CMM-2008-01 [BET and YFT] (SC, Technical and Compliance Compliance (Compliance Compliance (Compliance Compliance Compliance Compliance (Compliance Compliance Compliance Compliance Compliance Compliance (Compliance Compliance Compliance Compliance Compliance Compliance Compliance (Compliance Compliance Com	 Part completed, part planned; shark research plan 2011–2013 prepared (SC paper EB-WP-01); preliminary assessment of key shark species will be presented at WCPFC 7 in December 2010 Part completed, part planned; CMM-2008-01 impact and compliance evaluated (SC papers SA-WP-05, MI WP-03); TCC and WCPFC papers planned
1	Committee [TCC], and WCPFC papers)11. Conduct analyses to support the development of conservation and management measures (SC, TCC, and WCPFC papers)	 Part completed, part planned; analyses conducted to support development of CMMs (SC papers FT-IP-01, MI-WP-03, ST-IP- 02); TCC and WCPFC papers planned
1	12. Review the spatio-temporal aspects of catches of juvenile bigeye and yellowfin tuna caught in association with FADs (SC, TCC, and WCPFC papers)	12. Part completed, part planned; review spatio-temporal aspects of catches of juvenile bigeye and yellowfin tuna caught in association with FADs (SC paper ST-IP-02)
1	13. Evaluate management options as specified by WCPFC, or from CMMs communicated through the Executive Director (SC, TCC, and WCPFC papers)	13. Evaluation of management options subject to request for WCPFC7
1	14. Further analyse purse-seine set times in the determination of set types (SC and TCC papers)	14. Further analyses of purse-seine set times postponed pending the availability of observer data
1	15. As requested, participate in assisting further discussion on independent review of the commission's science structure and functions, including advice on a peer review process of bigeye stock assessment, restructure of SC meetings, and any data related issues with the International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean (ISC) to address data gaps	15. Ad hoc advice provided on request
1	16. Provide stock assessment and related information and advice to NGOs and other national or international fora, e.g. World Wildlife Fund, Western Pacific Regional Fishery Management Council, International Sustainable Seafood Foundation, etc.	16. Ad hoc advice provided on request
1	17. Participate in relevant meetings, forums, as required	17. Participate in relevant meetings undertaken as required and time permitting

1.2: FFA's oceanic	1. Conduct technical analyses to support the development of a	1.	A design for party allowable effort allocations based upon vessel
fisheries management	Longline Vessel Days Scheme (LL-VDS) for PNA		size-specific catch rates was presented to PNA28 and 29, with
initiatives are supported by			follow-up presentations given to the LL-VDS Technical Working
the best science-based			Group
stock assessments and	2. Characterise fishing effort in relation to Conservation and	2.	Papers and presentations were provided to the FFC subcommittee
advice	Management Measures		(SPTBF), for characterising fishing effort in relation to CMMs for swordfish and striped marlin
	3. Provide continued support for Purse Seine Vessel Days Scheme requirements	3.	Data summaries of purse seine catch and effort provided to PNA consultant for consideration by the PNA VDS Subcommittee
	4. Conduct economic optimisations of within-zone tuna managemen	t 4.	•
	plans for selected members of the Southern Tuna and Billfish		evaluate within-zone longline fishery management strategies was
	Committee		presented to the FFC subcommittee (SPTBF)
	 Generate inputs and associated technical support for bio-economic modelling 	c 5.	Planned
	6. Provide analyses of the impacts of current or potential WCPFC	6.	A working paper that evaluates alternative management strategies
	management measures		for bigeye was presented to FFA Management Options
			Consultation (MOC)
	7. Conduct fishery characterisations as requested	7.	Characterisations of the albacore and billfish fisheries were presented to FFA Subregional Management Options Workshops
	8. Provide papers and presentations to FFC, its relevant	8	Papers and presentations of the updated status of tuna stocks, and
	subcommittees (e.g. PNA and/or South Pacific Tuna and Billfish	0.	other relevant issues, were presented to FFA MOC, Sub-regional
	Fisheries [SPTBF]), the Management Options Workshop, and		Management Options Workshops, and Sub-Committee (SPTBF),
	subregional workshops as required		and to associated sub-regional arrangements (PNA, TVM)
	9. Participate with the FFA Secretariat in the development of a new		and to associated sub regional arrangements (1144, 1 vivi)
	GEF-funded Oceanic Fisheries Management Project		
1.3: National tuna oceanic	1. Complete NTFSRs for Cook Islands, Fiji Islands, Kiribati,	1	Draft reports being finalised for Marshall Islands, Samoa, Tokelau
fisheries policy and	Marshall Islands, Samoa, Solomon Islands, Tokelau, and Tuvalu	1.	and Kiribati; other reports in progress or soon to be initiated
decision-making are	Transform Islands, Samoa, Solomon Islands, Tokolau, and Tuvaru		include Tuvalu, Cook Islands and Solomon Islands; no official
informed by the best			request received from Fiji Islands yet
science-based stock	2. Improve integration within the FFA/SPC EAFM work programme	2	SPC-FFA colloquium improved integration of EAFM work
assessments and advice		<i>–</i>	programme
			ProBrannie
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	1		1	
	3.	Provide scientific support to national scoping and stakeholder workshops for the implementation of EAFM or revision of tuna management plans, including the delivery of relevant information from the NTFSRs	3.	Scientific support provided to national stakeholder workshops in Tokelau in April and September; expect requests for advice to consultations from Fiji and Solomon Islands and Cook Islands for October, November 2010
	4	Provide draft overview of fisheries and stock status for inclusion in	4.	
	4.	FFA EAFM final reports, including providing review/comments of	4.	Reviews of draft EAFM reports and tuna management plans provided for Samoa, Tokelau, Niue and Tuvalu
	_	the draft EAFM reports prior to finalisation	_	
	5.	Respond to ad hoc requests for information and advice from national fisheries administrations	5.	Ad-hoc advice provided to Kiribati and Niue
1.4: Enhanced capacity of	1.	J T	1.	Papers and presentations were made to FFC, its relevant
SPC members to interpret		relevant fora, e.g. Heads of Fisheries, FFC, FFA Science Working		subcommittees (e.g. PNA and/or SPTBF), the Management
stock assessment		Group, Management Options Workshops, etc.		Options Workshop, and subregional workshops
information and advice	2.	Hold 2 regional one-week stock assessment workshops and (when	2.	2 regional one-week stock assessment workshops were held
		possible) other opportunistic in-country stock assessment workshops		between 5 and 21 June 2010 involving 24 participants from SPC member countries and territories
	3.	Continue to develop material for workshops to increase	3.	A short one-day refresher workshop was held for PICT
		understanding of fisheries stock assessments and their management implications, with a focus on western and central Pacific Ocean tuna assessments in particular		participants to the Pre-Assessment Workshop in April 2010
	4.	Investigate potential transfer of materials to accredited courses (e.g. at USP)	4.	Workshops included newly developed materials to ensure participants were provided the most up to date information on the regional tuna stock assessments and the associated CMM evaluations undertaken by OFP
	5.	Hold discussion at Heads of Fisheries meeting to determine PICT preferences for the long-term future of the workshops/courses	5.	Strong support was provided by PICTs at the Heads of Fisheries meeting for the continuation of the Stock Assessment Workshops
	6.		6.	Remote learning initiative continued, with 60% of the 2009 participants partaking in online revision exercises prior to the 2010 workshop
	7.	Help to prepare and present scientific briefs to preparatory meetings of PICTs for WCPFC	7.	Support was provided at the FFA Science Working Group (preceding WCPFC-SC) by providing an overview of the updated tuna assessments, and assistance given in preparing scientific briefs and talking points
	8.	Host attachments of national technical staff to participate in regional stock assessment work and preparation of NTFSRs	8.	National level attachment from Tokelau was hosted by SPC during the preparation of the Tokelau NTFSR

Objective 2: To collect and analyse accurate and comprehensive scientific data for regional and national fisheries management authorities targeting the region's resources of tuna billfish and other oceanic species

2.1: WCPFC is provided with efficient and cost- effective data management services to support regional oceanic fisheries	 Incorporate data provided by commission members under the commission's data provision policy (e.g. annual catch estimates, operational-level logsheet data, size data, etc.) into existing databases and facilitate access of commission secretariat staff to those data as appropriate Annual catch estimates compiled and presented to SC6; aggregate catch/effort and size data compiled and made available for WCPFC stock assessments in June 2010
management	 Process observer data on behalf of the commission's Regional Observer Programme 4 Regional Observer Programme data entry staff employed to enter pProgramme data provided to the WCPFC Secretariat on a six-monthly basis
	 Determine the status of the provision of scientific data to the commission Completed (WCPFC SC paper – SC6-ST SWG WP-1 'Scientific data available to the Western and Central Pacific Fisheries Commission')
	 4. Compile estimates of catch and effort in support of the functions of the commission and its subsidiary bodies 4. Completed (WCPFC Scientific Committee paper – SC6-ST SWG IP-1 'Estimates of Annual Catches in the WCPFC Statistical area')
	 Compile estimates of annual catches by vessel flag, EEZ, archipelagic waters, and IATTC/WCPFC overlap area for use in determining the catch component of the commission's assessed contributions Provided to the WCPFC Secretariat in August 2010
	 6. For catches for which estimates are not otherwise available, conduct statistical analyses to estimate catches, particularly with regard to purse-seine catches of bigeye tuna, discards of target tuna species, and catches of non-target species 6. Completed (WCPFC Scientific Committee paper – SC6-ST SWG WP-2 'Update on the estimation of selectivity bias based on paired spill and grab samples collected by observers on purse seiners in the Western and Central Pacific Ocean')
	 7. Produce and publish on the commission's website the Tuna Fishery Yearbook, containing annual catch estimates by gear type, flag and species 7. Produce and publish on the commission's website the Tuna Fishery Yearbook, containing annual catch estimates by gear type, 7. Produce and publish on the commission's website the Tuna Fishery Yearbook, containing annual catch estimates by gear type, 7. Produce and publish on the commission's website the Tuna Fishery Yearbook, containing annual catch estimates by gear type, 7. Produce and publish on the commission's website the Tuna Fishery Yearbook, containing annual catch estimates by gear type, 7. Produce and publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and Publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and Publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and Publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and Publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and Publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and Publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and Publish on the commission's website the Tuna Fishery Yearbook planned for completion by 7. Produce and Publish on the planned for completion by 7. Produce and Publish on the planned for completion by 7. Produce and Publish on the planned for completing the planned for completion by
	 8. Disseminate public domain catch, effort and size data on the commission's website at agreed level of resolution 8. The 2009 public domain data will be made available on the WCPFC website in November 2010

	 9. Provide ad hoc advice on science and data-related implications of relevant monitoring, control and surveillance (MCS) activities, including, but not limited to: transshipment, the regional observer programme, port sampling, vessel monitoring system (VMS), port state measures, and catch documentation schemes 9. Ongoing – during 2010, most of the ad hoc advice provided to WCPFC was related to Regional Observer Programme data management and CMM 2008-01 and included representation at port sampling workshop in Tokyo
	 10. Provide advice on data-related procedures of the commission, e.g. rules and procedures for the protection, access to and dissemination of non-public domain data and information compiled by the commission; and 'Scientific Data to be Provided to the Commission' 10. Various ad hoc advice, mainly in relation to data submissions, was provided to WCPFC members on behalf of the WCPFC Secretariat
	 11. Release the datasets used in annual assessments, upon request, subject to the commission's rules and procedures for the protection, access to and dissemination of data compiled by the commission 11. 6 requests for WCPFC data were fulfilled during 2010
	 12. Provide support to coordination and collaboration on data-related matters between ISC and WCPF 12. Completed – Preparation and provision of WCPFC Data Inventory for North Pacific Ocean to ISC; WCPFC Scientific Committee paper – SC6-ST SWG WP-3 'Progress report on the reconciliation of WCPFC and ISC data holdings'); Meeting between WCPFC and ISC data managers during SC6
	 13. Participate in GEF-West Pacific East Asia Oceanic Fisheries Management (WPEA OFM) Project 13. Participated in the following activities: Annual Catch Estimates Workshop (Indonesia), Annual Catch Estimates Workshop (Philippines), Port Sampling Review Workshop (Vietnam); Still to be done: Port Sampling Review Workshop (Vietnam), Port Sampling Review Workshop (Indonesia)
2.2: FFA's oceanic	1. Conduct regular exchanges of data as per the SPC-FFA 1. Data provided to FFA on a quarterly basis
fisheries management	memorandum of understanding
initiatives are supported by efficient and cost-effective	 Provide data support for subregional arrangements, e.g. PNA VDS, US Multilateral Treaty 2 papers provided for Annual US Treaty Consultation; data and summaries for PNA VDS provided on a quarterly basis; ad hoc
data management services	3. Provide data support for specific FFA work programmes in analyses have been conducted on request
	fisheries development, MCS and fisheries management 3. Ad hoc analyses have been conducted on request

2.3: Enhanced national oceanic fishery monitoring and data management by SPC members to meet	1. Provide regional coordination of national fishery monitoring and data management systems through the provision of a template for integrated national tuna fishery monitoring, data collection forms, computer software, newsletters and other information, and through	1.	Planned - Work on DCC9 report continuing - Fork Length #9 - Fishery Monitoring information updated on OFP website
national and international obligations	a meeting of the SPC/FFA Data Collection Committee (DCC)2. Develop or enhance national tuna fishery data management systems, such as TUFMAN	2.	Comprehensive development undertaken with TUFMAN updated to version 6 and TUBs (observer data management system) to version 2; latest TUFMAN installed during visits to 7 countries during 2010;TUBs installed in 2 countries during 2010; updates to other systems (e.g. CES) also undertaken during 2010; CES
	3. Develop or enhance national observer programmes	3.	provided to all countries, WCPFC and FFA on a quarterly basis Meeting WCPFC new demand for five-fold in observer coverage; development of new purse-seine sampling techniques (spill sampling); NZ Aid Programme funds secured for increased
	4. Develop or enhance national port sampling programmes	4.	positional support Input to technical meeting to support purse-seine related port monitoring in WCPFC ports; port sampling audits (Tonga, Samoa, Vanuatu)
	5. Develop procedures for the auditing of national tuna fishery monitoring	5.	Planned: documentation to carry out national tuna audits
	 6. Provide technical support for the development of data collection `from artisanal tuna fisheries 	6.	Artisanal tuna fishery component developed in TUFMAN: Regional Standard form for survey and sampling made available <i>Planned</i> : resource material for the collection of artisanal tuna fishery data
2.4: Enhanced capacity of SPC members in fisheries monitoring, data management and data use	1. Provide ongoing support to National Tuna Data Coordinators, including follow-up of issues arising at the Tuna Data Workshop and further development of national tuna data procedures documents	1.	Memorandums of understanding outlining funding and equipment support signed with Kiribati, Niue, Tuvalu and Palau: National Tuna Data Procedures developed through national TDWs (see below)
	2. Hold the annual Tuna Data Workshop to continue the enhancement of national tuna data management and fishery monitoring	2.	Regional and National Tuna Data Workshops (TDWs): Regional Tuna Data Workshop (April 2010); national TDWs in FSM, Solomon Islands and Nauru) <i>Planned</i> : national TDWs in Kiribati, Samoa (2011), Tonga, Niue

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3	3. Train national tuna fishery data management staff in the use of	3.	Database training provided during 2010 included training during
	TUFMAN and other database and sampling programme		visits to 7 member countries, training sessions at the Tuna Data
	management software		Workshop (April 2010), attachment training at SPC (4 trainees)
			<i>Planned</i> : training during visits to 2 member countries; attachment
			training at SPC (2 trainees)
4	4. Hold up to 6 national and subregional observer training workshops, and an upgrade workshop	4.	Solomon Islands, FSM, Marshall Islands, Kiribati, PNG, Vanuatu
5	5. Provide training auditing services and support for at least 3	5.	Planned: new Audit Officer recruited for this work, to start in
	nationally run training workshops		December
6	6. Develop debriefing capacity through 2 debriefer certification	6.	
	strategy and operations workshops and on-the-job		Planned: debriefer training and competence workshop Noumea
	training/assessments		(December), resource material and support for National
			Debriefing Workshop (PNG, September)
7	7. Hold a regional observer coordinator's workshop	7.	Regional observer coordinator's workshop held in Cairns,
			Australia (July)
8	8. Host up to 4 training attachments in fisheries monitoring and	8.	Attachment training for 4 member country counterparts
	statistics at SPC headquarters		completed; attachment training for 2 more member country
	·		counterparts planned
9	9. Develop standards for competency-based training of observers	9.	Planned: consultant contract under development for ongoing work
			on standards concentrating on debriefing

Objective 3: To improve understanding of pelagic ecosystems in the western and central Pacific Ocean

3.1: Enhanced data on the biological characteristics of oceanic species and	1. Tuna tagging campaigns implemented in the western and central Pacific for the provision of data for stock assessment	 4th Central Pacific cruise completed and 5th cruise scheduled for completion in December; 2nd phase of albacore tagging completed in New Caledonia, New Zealand and Tonga; see
their environment are available to support stock assessment and ecosystem-	2. Analyses of skipjack and yellowfin conventional tag data to estimate advection and diffusion rates (movement ecology) and	 WCPFC SC6 - GN-IP-04 and GN-IP-06 for results Preliminary analysis of advection diffusion reaction rates before and after FAD deployment completed with little support from the
based fisheries management	temporal changes in exploitation and FAD impacts	data that advection diffusion reaction estimates have changed; analysis to be repeated again in 2011 when tag return and effort data more complete; see WCPFC SC6 - GN-IP-04 for results
	3. Estimation of horizontal movement of bigeye, yellowfin and skipjack from electronic tag data completed	 Horizontal analysis of bigeye, yellowfin and skipjack horizontal movements completed for tag returned from western Pacific; see WCPFC SC6 - GN-IP-04 for results

	4. Tagging data included in 2010 skipjack regional tuna stock assessment and ecosystem models	4. Utilised in assessments but not fully incorporated in model runs
	 Revised growth curves and maturity ogives estimated for albacore and bigeye 	5. Preliminary growth and maturity ogives estimated for bigeye and yellowfin; data collection to complete in December 2010 and analyses to be completed in 2011; see WCPFC SC6 - BI-WP-01and BI-WP-03 for results
	 Trophic dynamics of the western and central Pacific pelagic ecosystem described 	6. Laboratory analysis completed for spatial differences in trophic dynamics; database established allowing extraction of information at the regional and national scale
	 Analysis of FAD impacts on diet, isotope signatures and fat content 	 Analysis of FAD impacts on diet, isotope signatures and fat content scheduled for completion in December 2010; see WCPFC SC6 - EB-IP-10 for preliminary results
	8. Workshop to evaluate the suitability of applying trophic-based indicators for detecting pelagic ecosystem change	8. Workshop scheduled for February 2011
	 Analysis of the association between seamounts and tuna catch published in the peer-reviewed literature 	 Seamount-tuna association accepted for publication in PlosOne (Morato et al.); seamount-biodiversity association published in Proceeding of the National Academy of Sciences (Morato et al. 2010)
3.2: Appropriate ecosystem models and	1. Albacore-oceanography analysis completed	1. Albacore-oceanography relationships submitted for publication in Fisheries Oceanography
analyses are available to inform ecosystem-based fisheries management	2. Climate change impacts on western and central Pacific tuna stocks completed	2. Climate change impacts on tuna stocks submitted for publication in Bell et al. <i>Vulnerability of fisheries and aquaculture in the</i> <i>Pacific to climate change</i>
	3. Review of oceanography effects on western and central Pacific tuna stocks completed	3. Completed
	4. Effectiveness of MPA's as a management measure for tuna fisheries at the regional scale completed	4. Effectiveness of MPAs completed and manuscript in preparation for submission in 2011
	5. EEZ scale applications of SEAPODYM for the assessment of exploitation	 Methods for EEZ scale applications of SEAPODYM completed (see WCPFC SC6 – EB-IP-02); EEZ zooms for New Caledonia, French Polynesia, PNG and Kiribati scheduled for completion in December 2010

3.3: Regional oceanic fisheries policy and decision-making by	 Implementation report of ERA completed Species specific vulnerabilities included in Seabird ERA and high risk zones identified 	 See WCPFC SC6 – EB-WP-01 and EB-IP-08 See WCPFC SC6 – EB-IP-01
WCPFC is informed by science-based information and advice on ecosystem issues	 CMM evaluation presented to WCPFC Scientific Committee as specified in 2010 WCPFC service agreement 	3. No evaluation of CMM specified in service agreement
3.4: FFA's ecosystem- based fisheries management initiatives are supported by the best scientific information and advice	 Technical support and advice provided as per 2010 SPC-FFA work agreement 	1. No tasks specified in 2010
3.5: Ecosystem-based management of oceanic fisheries by SPC members is supported by the best scientific information and	 National-level ERAs prepared for inclusion in NTFSRs of Marshall Islands, Kiribati, Solomon Islands, Fiji Islands and ERA report for French Polynesia and New Caledonia 	 ERA scheduled for completion in French Polynesia and New Caledonia in December 2010 Draft NTFSR analyses completed for Marshall Islands and Kiribati; Solomon Islands and Fiji Islands rescheduled for 2011 in line with new timeframe for NTFSR
advice	2. 2010 ERA workshop conducted in conjunction with Stock Assessment Workshop	2. ERA workshop completed (24 enrolled)
	3. National-level summaries of trophic structure and important habitats compiled for Marshall Islands, Kiribati, Solomon Islands, Fiji Islands, French Polynesia, New Caledonia	3. Draft NTFSR analyses completed for Marshall Islands and Kiribati; Solomon Islands and Fiji Islands rescheduled for 2011 in line with new timeframe for NTFSR Trophic and seamounts databases revised for national level reporting; summaries provided for Marshall Islands and Kiribati; Solomon Islands and Fiji Islands rescheduled for 2011 in line with new timeframe for NTFSR
	 National level summaries of tuna and oceanographic effects prepared for inclusion in NTFSRs of Marshall Islands, Kiribati, Solomon Islands and Fiji Islands 	4. Oceanographic analysis completed for Marshall Islands and Kiribati; Solomon Islands and Fiji Islands rescheduled for 2011 in line with new timeframe for NTFSR
	5. Tuna Tagging Resource Profiles completed for PNG and Solomon Islands	 Tagging profiles for PNG and Solomon Islands scheduled for completion in December 2010