

DIVISIONAL OBJECTIVES AND OUTPUTS

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

Results	
<p>1.1 Programme plans and activities that respond to the needs and priorities of members</p>	<ul style="list-style-type: none"> • Mini Heads of Fisheries meeting is held in Honiara in May, with discussion of work programmes. • 2010 work programmes completed by March, with >80% implementation of activities during the year • Effective participation in 5 JCS missions; JCS reports used as basis for activity planning in 2010. • Regular visits to member Fisheries Departments for consultations; meet with all heads of fisheries on fringes of regional meetings; regular email communications • FoF study (including meeting with member representatives) completed and report presented to Forum Leaders. • Review of PIROP initiated during the year after Forum Leaders' endorsement. • Ensure that Divisional reporting requirements – to CRGA, donors and others – are met.
<p>1.2 Effective working relationships maintained with other regional agencies and development partners</p>	<ul style="list-style-type: none"> • FFA/SPC technical meeting and colloquium successfully completed, with follow-up actions undertaken. • SPC/IRD MoU is renewed and projects to utilise ProcFish data are agreed. • MSWG meets twice during the year and develops submissions to CROP Heads and/or Forum. • AusAID food security project approved by end of June. • ScicoFish and DevFish 2 CAs are signed before end of April. • GTZ project and/or new Ausaid ICCAI programme include marine resources components. • Fisheries issues are addressed in regional food security summit and strategy. • Appropriate funding mechanisms are developed/approved to continue key activities of CRISP project • ETM system introduced and functioning for improved reporting on activities and training.

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

Results	
<p>2.1: Policy-makers and the general public are better informed of marine resource issues, the importance of fisheries and the need for management action</p>	<ul style="list-style-type: none"> • At least two awareness, scientific, technical or training materials related to regional fishery policies or marine resource issues are designed and distributed throughout the region • Awareness materials or policy-related documents are designed and produced for at least three countries or territories • All FAME-produced documents are made available to the general public on SPC website • FAME and CFP websites are reviewed, redesigned and reorganised to provide a more user-friendly access to the information available. • Regional media are regularly informed of regional marine resource issues, and FAME activities and outputs, through the provision of press releases or articles for the newspapers
<p>2.2 Stakeholders in PICTs are fully informed of the results of SPC activities, and shared experience and knowledge across the region</p>	<ul style="list-style-type: none"> • 3 issues of the <i>SPC Fisheries Newsletter</i> are published in English and French • 6 issues of SPC's Special Interest Group Information Bulletins, related to important marine resource issues, are published in French and English • An updated version of SPC Fisheries Address Book, which gives access to more than 1200 regional fishery-related contacts, is produced and distributed An updated fully-searchable digital library with all FAME publications available in digital format is produced on a DVD, which is distributed throughout the region, and on SPC's website • Results of SPC activities are documented in various media, such as the SPC website and the SPC Fisheries Newsletter • Effectiveness of the distribution of SPC's fisheries-related publications throughout the PI region is reviewed and measures are taken to ameliorate stakeholders' access to these materials.

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	
<p>1.1 Assessment of the status of national coastal living marine resource user groups, impact on resource, existing impact management systems, and the current status of the resources themselves, in order to inform management.</p>	<ul style="list-style-type: none"> • Training provided in appropriate methodologies and assistance in assessment of aquarium/live reef fisheries provided to 2 countries • Assistance provided to 3 countries in developing and implementing standardized coastal fisheries monitoring protocols and databases • Training provided in coastal fisheries data analysis for 2 countries • Regional data repository maintained and national data provided for backup from at least 3 countries / fisheries. • Monitoring and data needs identified and assessments completed for finfish fisheries in 3 countries • Invertebrate resources assessment provided for at least 2 countries • Develop database modules for market / creel surveys • At least one sub regional workshop covering monitoring protocols, data collection and analysis. • Underwater Visual Census methodology manual produced and disseminated to member countries • Invertebrate methodology manual produced and disseminated to member countries • Reports on all resource assessment available to countries within one month of providing technical assistance
<p>1.2 Assistance to members, in partnership with other stakeholders, in developing an appropriate mix of community-based approaches and national management arrangements, incorporation of ecosystem-based principles, and the review of coastal fisheries legislation.</p>	<ul style="list-style-type: none"> • Marine aquarium/live reef fisheries policy/management framework completed in at least 2 countries • At least 5 countries receive capacity building and provided with assistance in reviewing/developing CBFM incorporating EAF principles. • Assistance provided to at least 3 countries to develop species specific management plans or resources profiles • Assistance provided to at least 3 countries for the coastal component of legislation reviews/development. • 1 national legislation ready for endorsement (this is a multiyear process). • Under coastal component of SciCoFish, assess monitoring, assessment and management needs in all 14 P-ACP countries. • Regional workshop with NGOs is held, with discussions on assessing and standardizing monitoring methods, data collection, identifying forms of data suited for management requirements. • Establish stronger collaborative working partnerships with NGOs working towards similar goals/objectives
<p>1.3 Practical assistance to members in the designing and targeting of appropriate awareness raising and educational information.</p>	<ul style="list-style-type: none"> • Training provided to at least 2 Countries to develop and disseminate fisheries information. • Fisheries Web site development training provided for at least 1 country • Coastal fisheries posters revise/developed for at least 2 countries

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	
<p>2.1 Improved regional and national capacity for strategic policy, planning and administration to establish clear priorities and enable the aquaculture sector to meet current and future needs, with the guidance of the SPC aquaculture action plan 2007.</p>	<ul style="list-style-type: none"> • Aquaculture Planning Workshop in 2 countries • Participate in 2 JCS, program missions • Aquaculture Commodity Dev Plans published for 3 countries • Independent consultant economist to review aquaculture/mariculture • Impact and adaption of aquaculture to climate change chapter completed • Participation in CC conference, Japan and ACIAR/WFC project for inland tilapia food security • PNG program mission food security • Assist and review PNG fish pond farmer census • Key organizers for Tahiti Aquaculture Conference, Tahiti • Seek FAO funds for PITCs to participate in FAO Global Aquaculture Conference, Thailand and attend as panellist • Regional review of aquaculture statistics published • Participate FAO statistics party (CWP), Australia • Organise CITES Regional Workshop, Honiara • Organise SPC Regional shrimp Workshop, Noumea • Participate in Australasian Aquaculture Conference, Australia • Aquaculture Portal updated with statistics and market notices
<p>2.2 Increased skills and knowledge base in the SPC region and its member countries and territories, so as to maximise the return on investments in aquaculture through innovative, profitable and sustainable approaches.</p>	<ul style="list-style-type: none"> • Field and desktop review of marine shrimp industry presented to SPC regional shrimp workshop • Report for FAO Global seaweed socio-economic review (Solomon case study) submitted • Mini-project: 13 projects implemented across 6 countries • Visit to assist ornamental fish industry on Christmas Is • Post larval capture trials for ornamental trade in FSM • Programming mission to Cook Is pearl industry • Proceedings of tilapia expert consultation published • Assist Samoa Fisheries with tilapia broodstock introduction and post-tsunami recovery • Assist lobster and scallop culture trials, New Caledonia • Support to all current Mini-projects (12) including those being supervised by JCU and USP directly • Support or supervision by section staff of ACIAR Mini-Project related MSc students (5 current, 3 pending) and PhD (1 current) • Ongoing project formulation support for EDF-10 project for SMEs • Participate in regional JICA training course (mariculture diversification), Okinawa • Submit joint project (IFRMER) for aquaculture feeds from tuna fish meal in Fiji, PNG • Review status of freshwater fisheries and opportunities for culture based fisheries • Support invertebrate (trochus, giant clam, sea cucumber) restocking initiatives

<p>2.3 Competent authorities established and/or supported, using science-based approaches to manage aquatic biosecurity risks and to facilitate trade.</p>	<ul style="list-style-type: none"> • Provide desktop advise on introductions as needed • Assist Solomon Is introduction of Nile tilapia • Assist Kiribati sea cucumber introduction • Organise regional training workshop for OIE disease reporting for key PITCs exporting live aquatics to the EU • Scoping for private sector trade study tour • Trade statistics published in regional aquaculture review • Aquaculture portal is updated with trade statistics (official and provisional)
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Objective 3: To develop sustainable nearshore fisheries in PICTs to provide food security, livelihoods and economic growth.

Results	
<p>3.1 Subsistence, artisanal, sport and industrial fishing activities within the sustainable production level of the available fisheries resources.</p>	<ul style="list-style-type: none"> • Officer responsible for the DevFish-2 project is recruited and project is started • An HRD plan for the fisheries sector is produced/updated in at least one country • A Tuna Fisheries Development Plan is produced/updated in collaboration with FFA, in at least one country • The Action Plan for sport-fishing development in the Cook Islands is fully implemented and at least two local guides operate sustainably • A feasibility study for sport-fishing development is conducted in at least one other PICT • A giant trevally tagging project is ongoing in New Caledonia • A small-scale pole-and-line fishing project is started in the Solomon Islands, in collaboration with FFA, with technical and training inputs from the NFDS including an assessment of community-based bait fishing to supply fishing operations • A pilot project is implemented in New Caledonia to test tilapia as bait for tuna longlining • Funding is secured for a major FAD conference in 2011 • NFDS web-portal is up and running
<p>2.2 Resource materials, advice and training in appropriate fishing techniques and technologies.</p>	<ul style="list-style-type: none"> • FAD projects are implemented with extensive capacity-building in at least three PICTs and advice/technical assistance is provided to a minimum of five other PICTs • FAD fishing workshops are conducted with parallel training of counterparts in at least three PICTs • Hook standardization projects are conducted in at least two PICTs • NFDS remains active on the bycatch mitigation front with ongoing awareness-raising in PICTs and inputs to regional initiatives • Small boat safety training is conducted with parallel counterpart training in at least three PICTs • Collaboration on sea safety issues with FAO and other regional/international organizations is ongoing • At least one regional fisheries course or workshop is organized and implemented • Vernacular versions of the SPC small boat safety checklists are produced in at least two PICTs • One Sea Safety information bulletin is produced in both English and French • A set of guidelines for the safe handling and release of inshore sport-fishing fish species is produced • A technical manual on small-scale bait fishing methods is produced • A brochure on satellite imagery for fish finding is produced • Advice is given on the development of a fisheries curriculum for vocational training in at least one PICT

<p>3.3 Optimum benefits from the resource through improved seafood quality standards and value-adding.</p>	<ul style="list-style-type: none"> • Training in onboard catch handling is provided to local fishers in at least three PICTs • A tuna grading workshop is organized and conducted in at least one PICT • Assistance and/or training in the area of Competent Authorities and seafood safety standards is started as part of the DevFish-2 project • Technical assistance and/or advice on the utilization of fish offal to produce fish silage is provided to at least three PICTs
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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

<p>Result 1.1: Regional oceanic fisheries management policy and decision-making by WCPFC are informed by the best science-based stock assessments and advice</p>	<ul style="list-style-type: none"> • 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). • Host Stock Assessment preparatory workshop (SC information paper). • Post input and output files for key model runs on the OFP website. • Publish Tuna Fishery Assessment Report (TFAR) following 2010 assessments. • Undertake analyses of longline catch and effort data, and data for other fishing gears where appropriate, including where appropriate operational-level data where possible, to construct indices of stock target and non-target species (bigeye, yellowfin, and skipjack in 2010; SC working papers). • 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 CPUE standardization (SC information 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 CMM-2009-04, including any alternative measures for the management of shark stocks in the Convention Area, as appropriate (WCPFC paper). • Provide preliminary advice on the stock status of key shark species and a 3-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, TCC, and WCPFC papers). • Conduct analyses to support the development of Conservation and Management Measures (SC, TCC, and WCPFC papers). • Review the spatio-temporal aspects of catches of juvenile bigeye and yellowfin tuna caught in association with fish aggregating devices (FADs) (SC, TCC, and WCPFC papers). • Evaluate management options as specified by WCPFC, or from CMMs communicated through the Executive Director (SC, TCC, and WCPFC papers). • Further analyse purse seine set times in the determination of set types (SC and TCC papers). • As requested, participate in assisting further discussion on Independent Review of the Commission's Science Structure and
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	<p>Functions, including advice on a peer review process of bigeye stock assessment, restructure of SC meetings, and any data related issues with ISC to address data gaps.</p> <ul style="list-style-type: none"> • Provide stock assessment and related information and advice to NGOs and other national or international fora, e.g. WWF, Western Pacific Regional Fishery Management Council, International Sustainable Seafood Foundation, etc. • Participate in relevant meetings, forums, as required.
<p>Result 1.2: FFA's oceanic fisheries management initiatives are supported by the best science-based stock assessments and advice</p>	<ul style="list-style-type: none"> • Conduct technical analyses to support the development of a Longline Vessel Days Scheme (LL-VDS) for the Parties to the Nauru Agreement (PNA). • Characterise fishing effort in relation to Conservation and Management Measures. • Provide continued support for Purse Seine Vessel Days Scheme requirements. • Conduct economic optimizations of within-zone tuna management plans for selected members of the Southern Tuna and Billfish Committee • Generate inputs and associated technical support for bio-economic modelling. • Provide analyses of the impacts of current or potential WCPFC management measures. • Conduct fishery characterisations as requested. • Provide papers and presentations to FFC, its relevant subcommittees (e.g. PNA and/or SPTBF), the Management Options Workshop, and sub-regional workshops as required. • Participate with the FFA Secretariat in the development of a new GEF-funded Oceanic Fisheries Management Project.
<p>Result 1.3: National tuna oceanic fisheries policy and decision-making are informed by the best science-based stock assessments and advice</p>	<ul style="list-style-type: none"> • Complete NTFSRs for the Cook Islands, Fiji, Kiribati, Marshall Islands, Samoa, Solomon Islands, Tokelau, and Tuvalu. • Improve integration within the FFA/SPC EAFM work programme. • Provide scientific support to national scoping and stakeholder workshops for the implementation of the Ecosystem Approach to Fisheries Management or revision of Tuna Management Plans, including the delivery of relevant information from the NTFSRs. • Where possible, adjoin NTFSR specific workshops to EAFM workshops • Provide draft overview of fisheries and stock status for inclusion in FFA EAFM final reports, including providing review/comments of the draft EAFM Reports prior to finalization. • Respond to <i>ad hoc</i> requests for information and advice from national fisheries administrations.
<p>Result 1.4: Enhanced capacity of SPC members to interpret stock assessment</p>	<ul style="list-style-type: none"> • Provide summary reports of stock assessment results to PICTs at relevant fora, e.g. HoF, FFC, FFA Science Working Group, Management Options workshops, etc. • Hold 2 regional one-week stock assessment workshops and (when

information and advice	<p>possible) other opportunistic in-country stock assessment workshops.</p> <ul style="list-style-type: none"> • Continue to develop material for workshops to increase understanding of fisheries stock assessments and their management implications, with a focus on WCPO tuna assessments in particular. • Investigate potential transfer of materials to accredited courses (e.g. at USP). • Hold discussion at HoF to determine PICT preferences for the long-term future of the workshops/courses. • Continue to develop remote learning initiatives, dependant on participation levels. • Help to prepare and present scientific briefs to preparatory meetings of PICTs for the WCPFC. • Host attachments of national technical staff to participate in regional stock assessment work and preparation of NTFSRs.
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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.

<p>Result 2.1: WCPFC is provided with efficient and cost-effective data management services to support regional oceanic fisheries management</p>	<ul style="list-style-type: none"> • 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. • Process observer data on behalf of the Commission’s Regional Observer Programme. • Determine the status of the provision of scientific data to the Commission. • Compile estimates of catch and effort in support of the functions of the Commission and its subsidiary bodies. • 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. • For catches for which estimates are not otherwise available, conduct statistical analyses to estimate catches, particularly in regard to purse-seine catches of bigeye tuna, discards of target tuna species, and catches of non-target species. • Produce and publish on the Commission’s website the Tuna Fishery Yearbook, containing annual catch estimates by gear type, flag and species. • Disseminate public domain catch, effort and size data on the Commission’s website at agreed level of resolution. • Provide <i>ad hoc</i> advice on science and data-related implications of relevant MCS activities, including, but not limited to: transshipment, the regional observer programme, port
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	<p>sampling, VMS, port state measures, and catch documentation schemes.</p> <ul style="list-style-type: none"> • 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”. • 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. • Provide support to coordination and collaboration on data-related matters between the ISC and WCPFC. • Participate in GEF-West Pacific East Asia Oceanic Fisheries Management (WPEA OFM) Project.
<p>Result 2.2: FFA’s oceanic fisheries management initiatives are supported by efficient and cost-effective data management services</p>	<ul style="list-style-type: none"> • Conduct regular exchanges of data as per the SPC-FFA MOU. • Provide data support for sub-regional arrangements, e.g. PNA VDS, US Multilateral Treaty. • Provide data support for specific FFA work programmes in fisheries development, MCS and fisheries management.
<p>Result 2.3: Enhanced national oceanic fishery monitoring and data management by SPC members to meet national and international obligations</p>	<ul style="list-style-type: none"> • 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 a meeting of the SPC/FFA Data Collection Committee. • Develop or enhance national tuna fishery data management systems, such as TUFMAN. • Develop or enhance national observer programmes. • Develop or enhance national port sampling programmes. • Develop procedures for the auditing of national tuna fishery monitoring. • Provide technical support for the development of data collection from artisanal tuna fisheries.
<p>Result 2.4: Enhanced capacity of SPC members in fisheries monitoring, data management and data use</p>	<ul style="list-style-type: none"> • 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. • Hold the annual Tuna Data Workshop to continue the enhancement of national tuna data management and fishery monitoring. • Train national tuna fishery data management staff in the use of TUFMAN and other database and sampling programme management software. • Hold up to six national and sub-regional observer training workshops, and an upgrade workshop.

	<ul style="list-style-type: none"> • Provide training auditing services and support for at least three nationally run training workshops. • Develop debriefing capacity through two debriefer certification strategy and operations workshops and on-the-job training/assessments. • Hold a regional observer coordinator’s workshop. • Host up to four training attachments in fisheries monitoring and statistics at SPC headquarters • Develop standards for competency-based training of observers.
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Objective 3: To improve understanding of pelagic ecosystems in the western and central Pacific Ocean

<p>Result 3.1: Enhanced data on the biological characteristics of oceanic species and their environment are available to support stock assessment and ecosystem-based fisheries management</p>	<ul style="list-style-type: none"> • Tuna tagging campaigns implemented in the western and central Pacific for the provision of data for stock assessment. • Analyses of skipjack and yellowfin conventional tag data to estimate advection and diffusion rates (movement ecology) and temporal changes in exploitation and FAD impacts. • Estimation of horizontal movement of bigeye, yellowfin and skipjack from electronic tag data completed. • Tagging data included in 2010 skipjack regional tuna stock assessment and ecosystem models. • Revised growth curves and maturity ogives estimated for albacore and bigeye. • Trophic dynamics of the western and central Pacific pelagic ecosystem described. • Analysis of FAD impacts on diet, isotope signatures and fat content. • Workshop to evaluate the suitability of applying trophic-based indicators for detecting pelagic ecosystem change. • Analysis of the association between seamounts and tuna catch published in the peer-reviewed literature.
<p>Result 3.2: Appropriate ecosystem models and analyses are available to inform ecosystem-based fisheries management</p>	<ul style="list-style-type: none"> • Albacore-oceanography analysis completed. • Climate change impacts on western and central Pacific tuna stocks completed. • Review of oceanography effects on western and central Pacific tuna stocks completed. • Effectiveness of MPA’s as a management measure for tuna fisheries at the regional scale completed. • EEZ scale applications of SEAPODYM for the assessment of exploitation
<p>Result 3.3: Regional oceanic fisheries policy and decision-making by WCPFC is informed by science-based information and advice</p>	<ul style="list-style-type: none"> • Implementation report of ERA completed. • Species specific vulnerabilities included in Seabird ERA and high risk zones identified. • CMM evaluation presented to WCPFC Scientific Committee as specified in 2010 WCPFC service agreement

on ecosystem issues	
Result 3.4: FFA's ecosystem-based fisheries management initiatives are supported by the best scientific information and advice	<ul style="list-style-type: none"> • Technical support and advice provided as per 2010 SPC-FFA work agreement
Result 3.5: Ecosystem-based management of oceanic fisheries by SPC members is supported by the best scientific information and advice	<ul style="list-style-type: none"> • National-level ERAs prepared for inclusion in NTFSRs of RMI, KI, SB, FJ and ERA report for PF, NC. • 2010 ERA workshop conducted in conjunction with Stock Assessment Workshop • National-level summaries of trophic structure and important habitats compiled for RMI, KI, SB, FJ, PF, NC • National level summaries of tuna and oceanographic effects prepared for inclusion in NTFSRs of RMI, KI, SB and FJ. • Tuna Tagging Resource Profiles completed for PNG and SB