# ANNEX I Agreement for the Provision of Scientific Services to the Commission and Assistance to Members by the Secretariat of the Pacific Community

## Period Covered by this Agreement

The period covered by this Agreement is 1 January 2010 to 31 December 2010.

## Scientific Services to be Provided

The scientific services to be provided to the Commission by the SPC OFP during the period of this Agreement are as follows:

| **Activity[[1]](#footnote-1)** | **Description of Service** | **Specific Outputs** | **Timing** | **Performance[[2]](#footnote-2)** |
| --- | --- | --- | --- | --- |
| ***Core SPC services (USD570k)*** |
| ***Data management, statistical analyses and related services*** |
| **i.****(1)** | ***Data Management*** |  |  |  |
|  | 1) Incorporate data provided by Members, Cooperating Non-Members and Participating Territories (CCMs) under the Commission’s data provision policy into existing databases and facilitate access of Commission secretariat staff to those data as appropriate. | * Databases updated
* Updated CES software installed at WCPFC headquarters
* Staff training as required
 | January-December |  |
|  | 2) Determine the status of the provision of scientific data to the Commission (CMM-2009-01, paragraphs 40-41) | * SC / TCC papers
* Continued refinement of the web-based utility to identify data gaps
 | Mid-July and mid-Sept |  |
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| **ii.****(2,3,6)** | ***Compilation of catch and effort estimates*** |  |  |  |
|  | 1) Compile estimates of annual catches by species, gear type and flag, as specified in the procedures for Scientific Data to be Provided to the Commission AND in support of the functions of the Commission and its subsidiary bodies | SC papers | Mid-July |  |
|  | 2) 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 | Catch table | Mid-Sept |  |
|  | 3) For catches for which estimates are not otherwise available, conduct statistical analyses to estimate catches, particularly in regard to (a) purse-seine catches of bigeye tuna and yellowfin tuna, (b) discards of target tuna species, and (c) catches of non-target species | SC papers | Mid-July |  |
|  |  |  |  |  |
| **iii.****(4,5,7)** | ***Data dissemination*** |  |  |  |
|  | 1) Produce and publish on the Commission’s website the Tuna Fishery Yearbook, containing annual catch estimates by gear type, flag and species. | Yearbook published on WCPFC website | Dec |  |
|  | 2) Disseminate public domain catch, effort and size data on the Commission’s website at agreed level of resolution. |  | Jan - Dec |  |
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| **iv.****(9)** | ***Technical / policy advice*** |  |  |  |
|  | 1) Provide ad-hoc advice on science and data-related implications of relevant MCS activities, including, but not limited to: transshipment, the regional observer programme, port sampling, VMS, port state measures, and catch documentation schemes | Advice provided on request | Jan - Dec |  |
|  | 2) 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*” | Advice provided on request | Jan - Dec |  |
|  | 3) 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 | As requested by CCMs through the Executive Director | After mid-July |  |
|  | 4) Provide support to coordination and collaboration on data-related matters between the ISC and WCPFC | * Produce an inventory of Commission data holdings for north Pacific stocks
* Participate in work to reconcile of ISC and Commission data holdings, for north Pacific stocks, to identify any data gaps by 1st October 2010. Work coordinated by the Secretariat, in conjunction ISC and interested CCMs.
 | July 2010Oct 2010 |  |
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| **v.****(8,14,15)** | ***Support of other data-related projects of the Commission*** |  |  |  |
|  | 1) Participate in GEF-West Pacific East Asia Oceanic Fisheries Management (WPEA OFM) Project | * Attending and facilitating WPEA OFM-related workshops and meetings. (Travel costs provided by WCPFC)
* Training in fishery monitoring and data management
* Technical support the auditing of fishery monitoring and data management systems
* Other advice and support as required
 | Jan - Dec |  |
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| ***Stock assessment and related analytical services*** |
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| **vi.****(22, 23, 24, 25, 31)** | ***Stock assessments and auxiliary analyses*** |  |  |  |
|  | 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. | * Assessments for bigeye and skipjack tunas
* SC papers
* *See ERA for shark work*
 | Mid-July |  |
|  | 2) 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 construction of indices of stock target and non-target species | * Analyses to be undertaken for bigeye, yellowfin, and skipjack tunas
* SC papers
* *See ERA for shark work*
 | Mid-July |  |
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| **vii.****(29, 32)** | ***Model development and refinement*** |  |  |  |
|  | 1) Further refinement of the stock assessment model, MULTIFAN-CL, including simulation testing of new developments as appropriate and refinement of models for CPUE standardization. | * Updated stock assessment modeling software and documentation posted on the MULTIFAN-CL website (also linked from WCPFC)
* SC paper
 | Mid-July |  |
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| ***Management analyses and CMM performance monitoring*** |
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| **viii.** | ***Conservation and Management Measure performance monitoring*** |  |  |  |
|  | 1) CMM-2008-01 [BET and YFT]: Provide available data, information, and advice for evaluating the impact of, and compliance with, the various provisions. This includes[[3]](#footnote-3):* Provide advice on the appropriateness of the objectives of the measure given available stock assessment information (paragraphs 1 and 46)\*
* Provide an assessment of the expected impacts of the provisions of the measure with respect to its objectives (paragraphs 1 and 46)\*
* Calculate total days fished of the purse seine fishery for EEZs, archipelagic waters, high seas regions, by flag (paragraphs 5, 9, 10, and 11)
* Compile bigeye and yellowfin catch estimates from longline fisheries by flag, taking into account paragraphs 2 and 36, and the footnotes to the tables in Attachment F of the CMM2008-01
* Characterisation of purse seine fishing activities during FAD closures\*
* Provide data and information to identify the level of compliance of CCMs in relation to data reporting requirements (paragraph 41)
* Subject to data availability, update assessments on the CCM’s bigeye and yellowfin tuna catch and effort reported from other commercial tuna fisheries, and advice on CCM’s proposals, for consideration at SC6 (paragraph 39)
* Update, if necessary, data, information and advice to further consider at SC6 a HS VDS for purse seine effort management (paragraph 21)
 | * SC, TCC, and WCPFC papers
* Tables and figures and required
 | Mid-July, Mid-Sept, and Mid-Nov |  |
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| **ix.****(34, 57, 58, 63)** | ***Analyses to support development of Conservation and Management Measures*** |  |  |  |
|  | 1) Further review of spatio-temporal aspects of catches of juvenile bigeye and yellowfin tuna caught in association with fish aggregating devices (FADs) | SC, TCC, and WCPFC papers | Mid-July, Mid-Sept, and Mid-Nov |  |
|  | 2) Subject to available resources, evaluate the potential impacts of possible management measures for target and key non-target species. Possible measures will be suggested through the Commission and/or meetings of its subsidiary bodies OR from CCMs communicated through the Executive Director. The initial focus will be on measures for bigeye, yellowfin, and skipjack tunas. | SC, TCC, and WCPFC papers | Mid-July, Mid-Sept, and Mid-Nov |  |
|  | 3) Further analysis of purse seine set times in the determination of set types. | SC and TCC paper | Mid-July and Mid-Sept |  |
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| ***Other advisory and technical services*** |
| **xi.** | ***Other advisory and technical services*** |  |  |  |
|  | 1) Independent Review of the Commission’s Science Structure and Functions As requested, participate in assisting further discussion on Independent Review, 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 |  |  |  |
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| ***Ecological Risk Assessment (Budget USD130k)*** |
| **xii.****(40, 43, 52)** | ***Ecological risk assessment and associated activities*** |  |  |  |
|  | 1) Seabirds:(a) Subject to available data, continue spatial risk assessments to determine initial spatial zones for the differential management and monitoring of seabird bycatch. | SC paper | Mid-July |  |
|  | 2) Sharks:(a) Provide preliminary advice on the stock status of key shark species and propose a research plan (this research plan can be included in xii 3) below) for the assessment of the status of these stocks(b) Subject to the availability of 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 | SC progress report and WCPFC paper | Mid-JulyMid-Nov |  |
|  | 3) Provide a three year ERA Research Plan (2011-2013) for review at SC6 | SC paper | Mid-Nov |  |
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## Financial Support to be provided by the Commission

The financial support to be provided by the Commission to the SPC OFP for the services outlined in section 2 above is as follows:

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| --- | --- | --- |
| **Item** | **Cost basis** | **USD** |
| Data management, stock assessment, ecological risk assessment and other advisory and technical services  | Costs based on SPC costs of four scientific positions, administration costs, travel, and computer support. | 700,000 |
| **Total Commission funding** | **700,000** |

## Schedule for Payments and Bank Details for Payment

The schedule of payments shall be as follows:

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| --- | --- | --- | --- | --- |
| 8 March 2010 (or before) | USD 200,000 |  | **Name of Bank** | Banque de Nouvelle-Caledonie |
| 31 March 2010 (or before) | USD 200,000 |  | **Address** | 25 av Henri Lafleur Victoire, Noumea, New Caledonia |
| 30 June 2010 (or before) | USD 150,000 |  | **Account name** | Secretariat General de la Communaute du Pacifique |
| 30 September 2010 (or before) | USD 150,000 |  | **Account Number** | 14889 00081  01461716025  31 |

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| Mr. Andrew WrightExecutive Director, WCPFC1 March 2010 |  | Dr. Jimmie Rodgers Director General, SPC1 March 2010 |  |

1. Values in parentheses refer to the project numbers from the Work Programme for the Scientific Committee [↑](#footnote-ref-1)
2. To be completed by SPC and WCPFC in November each year and provided as a paper to the Regular Session of the WCPF Commission and its appropriate subsidiary bodies (e.g. FAC) [↑](#footnote-ref-2)
3. For evaluation of CMM2008-01, those items marked with an \* will be the basis of papers, whereas those items without will be in the forms of tables and other data extractsprovided to the Secretariat [↑](#footnote-ref-3)