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**SCIENTIFIC COMMITTEE**

**FIFTEENTH REGULAR SESSION**

Pohnpei, Federated States of Micronesia

12-20 August 2019

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| **Provisional LIST OF DOCUMENTS** |

**WCPFC-SC15-2019-05 (Rev.01)**

**06 August 2019**

(Revision from previous version in track change)

**MEETING INFORMATION**

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| **WCPFC-SC15-2019-01** | Meeting notice and information |
| **WCPFC-SC15-2019-02** | Provisional agenda |
| **WCPFC-SC15-2019-03** | Provisional annotated agenda/ Provisional theme agenda |
| **WCPFC-SC15-2019-04** | Indicative schedule |
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| **WCPFC-SC15-2019-06** | Provisional agenda for Heads of Delegation meeting |
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| **WCPFC-SC15-2019-08** | Provisional agenda of the Pacific Tuna Tagging Programme Steering Committee Meeting |
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**GENERAL PAPERS**

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| ***GENERAL PAPERS – Working Papers*** | |  |
| **GN-WP-01** | Williams, P. and Reid, C. **Overview of tuna fisheries in the western and central Pacific Ocean, including economic conditions – 2018** | 2.1 |
| **GN-WP-02** | IATTC. **Report on the Tuna Fishery, Stocks, and Ecosystem in the Eastern Pacific Ocean in 2018** | 2.2 |
| **GN-WP-03** | New Zealand. **A Proposal for the** **Guidelines for the SC Chair and Theme Conveners** | 11.1 |
| **GN-WP-04** | Secretariat. Intersessional activities of the Scientific Committee |  |
| ***GENERAL PAPERS – Information Papers*** | |  |
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| **GN-IP-02** | ISC. **Report of the Nineteenth Meeting of the International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean** | 4.2 |
| **GN-IP-03** | Secretariat. **Issues arising from the Commission** | 1.3 |
| **GN-IP-04** | Secretariat. **Intersessional activities of the Scientific Committee** | 1.6 |

**SCIENCE-RELATED DOCUMENTS PRESENTED AT WCPFC15**

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| **WCPFC15-2018-09** | Pilling, G., Scott, R., Scott, F. and Hampton, J. [**Technical aspects of a potential SP Albacore harvest strategy**](https://www.wcpfc.int/node/32646) |
| **WCPFC15-2018-10\_rev1** | SPC-OFP. [**Potential target reference points for South Pacific albacore**](https://www.wcpfc.int/node/32647) |
| **WCPFC15-2018-12\_rev2** | SPC-OFP. [**Evaluation of CMM 2017-01 for bigeye tuna, with additional evaluations for skipjack and yellowfin tuna**](https://www.wcpfc.int/node/32631) |
| **WCPFC15-2018-13\_rev1** | SPC-OFP. [**Minimum TRPs for WCPO yellowfin and bigeye tuna consistent with alternative LRP risk levels**](https://www.wcpfc.int/node/32648) |
| **WCPFC15-2018-14** | Scott, R., Scott, F., Pilling, G., Hampton, J. and Davies, N. [**Selecting and Conditioning the Operating Models for WCPO Skipjack**](https://www.wcpfc.int/node/32650) |
| **WCPFC15-2018-15** | Scott, F. Scott, R., Davies, N., Pilling, G. and Hampton, J. [**Performance indicators for comparing management procedures using the MSE modelling framework**](https://www.wcpfc.int/node/32651) |
| **WCPFC15-2018-20** | SPC-OFP. [**Key decisions for managers and scientists under the harvest strategy approach for WCPO tuna stocks and fisheries**](https://www.wcpfc.int/node/32664) |

**DATA AND STATISTICS THEME**

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| ***ST THEME – Working Papers*** | |  |
| **ST-WP-01** | Williams, P. **Scientific data available to the Western and Central Pacific Fisheries Commission** | 3.1.1 |
| **ST-WP-02** | Peatman, T., S. Fukofuka, T. Park, P. Williams, J. Hampton. and N. Smith. **Better purse seine catch composition estimates: progress on the Project 60 work plan** | 3.1.2 |
| **ST-WP-03** | SPC-OFP. **Project 90 Update : Better data on fish weights and lengths for scientific analyses** | 3.1.3 |
| **ST-WP-04** | FFA, PNAO, SPC and WCPFC Secretariat. **Update on Project 93 (Review of the Commission's data needs and data sources,  including the potential for eMonitoring to address gaps)** | 3.1.4 |
| **ST-WP-05** | Fiji and FFA. **Guidelines for the Voluntary Submission of Economic Data by CCMs to the Commission** | 3.4 |
| **ST-WP-06** | WCPFC Secretariat. **Streamlining WCPFC reporting requirements – discussion paper** | 3.5 |
| **ST-WP-07** | Itano, D., Heberer, C. and Owens, M. **Comparing and contrasting EM derived purse seine fishery data with human observer, onboard sampling and other data sources in support of Project 60** | 3.1.2 |
| ***ST THEME – Information Papers*** | |  |
| **ST-IP-01** | SPC-OFP. **Estimates of annual catches in the WCPFC statistical area** | 3.1.1 |
| **ST-IP-02** | Williams, P., Panizza, A., Falasi, C., Loganimoce, E., Hosken, M. and Schneiter, E. **Status of observer data management** | 3.1.1 |
| **ST-IP-03** | Williams, P. **An update on cannery data with potential use to the WCPFC** | 3.1.1 |
| **ST-IP-04** | Sangaalofa Clark**. Purse seine fishing activities in PNA waters** | 3.1.1 |
| **ST-IP-05** | Tanangonan, I., Demo-os, M., Jara, J., Dickson, A. and Ramiscal, R. **Group Seine Operations of Philippine Flagged Vessels in High Seas Pocket 1 (HSP1)** | 3.1.1 |
| **ST-IP-06** | Philippines. **Progress of MARLIN (Electronic Logsheet) Operation in High Seas Pocket 1** | 3.1.1 |

**STOCK ASSESSMENT THEME**

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| ***SA THEME – Working Papers*** | |  |
| **SA-WP-01** | Brouwer, S. and G. Pilling. **A compendium of fisheries indicators for tuna stocks** | 4.1.1.1b, 4.1.2.1b, 4.1.3.1a, 4.1.4.1a |
| **SA-WP-02** | Farley, J., Krusic-Golub, K., Clear, N., Eveson, P., Smith, N. and Hampton, P. **Project 94: Workshop on yellowfin and bigeye age and growth** | 4.1.1.1a |
| **SA-WP-03** | Farley, J., Krusic-Golub, K., Clear, N., Eveson, P., Roupsard, F., Sanchez, C. and Smith, N. **Progress on yellowfin tuna age and growth in the WCPO (Project 82)** | 4.1.2.1 |
| **SA-WP-04** | Ducharme Barth, N., Vincent, M., Pilling, G. and Hampton, J. **Simulation analysis of pole and line CPUE standardization approaches for skipjack tuna in the WCPO** | 4.1.3.1 |
| **SA-WP-05** | Vincent, M., G. Pilling and J. Hampton. **Stock assessment of skipjack tuna in the western and central Pacific Ocean (Rev.01)** | 4.1.3.1 |
| **SA-WP-06** | Tremblay-Boyer, L., Carvalho, F., Neubauer, P. and Pilling, G. **Stock assessment for oceanic whitetip shark in the Western and Central Pacific Ocean** | 4.3.1.1 |
| **SA-WP-07** | Ducharme Barth, N., Pilling, G. and Hampton, J. **Stock assessment of SW Pacific striped marlin in the WCPO** | 4.4.2.1 |
| **SA-WP-08** | Brouwer, S. **Recent trends in the south Pacific albacore fishery** | 4.1.4.1b |
| **SA-WP-08a** | Excel: **SPA vessel number latitude flag** | 4.1.4.1b |
| **SA-WP-08b** | Excel: **SPA catch proportion latitude flag** | 4.1.4.1b |
| **SA-WP-09** | ISC. **Stock Assessment Report for Striped Marlin (*Kajikia audax*) in the Western and Central North Pacific Ocean through 2017** | 4.4.3.1 |
| **SA-WP-10** | Ohashi, S., Aoki, Y., Tanaka, F., Fujioka, K., Aoki, A. and Kiyofuji, H. **Reproductive traits of female skipjack tuna *Katsuwonus pelamis* in the western central Pacific Ocean (WCPO)** | 4.1.3.1 |
| **SA-WP-11** | Kiyofuji, H., Aoki, Y., Kinoshita, J., Ohashi, S. and Fujioka, K. **A conceptual model of skipjack tuna in the Western and Central Pacific Ocean (WCPO) for the spatial structure configuration** | 4.1.3.1 |
| **SA-WP-12** | Aoki, Y., Ohashi, S. and Kiyofuji, H. **Evaluation of changes in model settings focusing on the maturity schedule in the reference case model of the 2016 skipjack stock assessment** | 4.1.3.1 |
| **SA-WP-13** | Neubauer, P., Richard, Y. and Tremblay-Boyer, L. A**lternative Assessment Methods for Oceanic Whitetip Shark** | 4.3.1.1b |
| **SA-WP-14** | Kinoshita, J., Aoki, Y., Ducharme-Barth, N. and Kiyofuji, H. **Standardized catch per unit effort (CPUE) of skipjack tuna of the Japanese pole-and-line fisheries in the WCPO from 1972 to 2018** | 4.1.3.1 |
| ***SA THEME – Information Papers*** | |  |
| **SA-IP-01** | Pilling, G. and Brouwer, S. **Report from the SPC pre-assessment workshop, Noumea, April 2019.** | 4.1 |
| **SA-IP-02** | Davies, N., Fournier, D, Takeuchi, Y., Bouyé, F. and Hampton, J. **Developments in the MULTIFAN-CL software 2018-2019** | 4.0 |
| **SA-IP-03** | MacDonald, J., Moore, B. and Smith, N. **Stock structure considerations for Pacific Ocean tunas** | 4.1 |
| **SA-IP-04** | M. Vincent, Y. Aoki, H. Kiyofuji, J. Hampton and G. Pilling **Background analyses for the 2019 stock assessment of skipjack tuna** | 4.1.3.1 |
| **SA-IP-05** | Vidal, T., G. Pilling, L. Tremblay-Boyer, and T. Usu. **Standardized CPUE for skipjack tuna *Katsuwonus pelamis* from the Papua New Guinea archipelagic purse seine fishery** | 4.1.3.1 |
| **SA-IP-06** | T. Peatman, J. Scutt Phillips, F. Roupsard, C. Sanchez, B. Leroy, N. Smith. **Analysis of tag seeding data and reporting rates** | 4.1.3.1 |
| **SA-IP-07** | Ducharme-Barth, N. and Pilling, G. **Background analyses for the 2019 stock assessment of SW Pacific striped marlin** | 4.4.2.1 |
| **SA-IP-08** | Bigelow, K., Garvilles, E., Bayate, D. and Cecilio, A. **Relative abundance of skipjack tuna for the purse seine fishery operating in the Philippines Moro Gulf (Region 12) and High Seas Pocket #1** | 4.1.3.1 |
| **SA-IP-09** | Vincent, M., Ducharme-Barth, N. and McKechnie, S. **Summary of fisheries structures for the 2019 stock assessment of skipjack tuna in the western and central Pacific Ocean** | 4.1.3.1 |
| **SA-IP-10** | Aoki, Y., Masujima, M. and Kiyofuji, H. **Impacts of distribution of adult skipjack in tropical areas on the abundance of recruited juveniles in the water around Japan inferred from the framework of Individual Based Model with Dynamic Energy Budget Model** | 4.1.3.1 |
| **SA-IP-11** | Fujioka, K. and Kiyofuji, H. **Quarterly catch data of skipjack caught by coastal troll and coastal pole-and-line fisheries in the Japanese coastal waters** | 4.1.3.1 |
| **SA-IP-12** | Kiyofuji, H., Ohashi, S., Kinoshita, J. and Aoki, Y. **Overview of historical skipjack length and weight data collected by the Japanese pole-and-line fisheries and Research vessel (R/V) from 1953 to 2017** | 4.1.3.1 |
| **SA-IP-13** | Evans, K., Grewe, P., Foster. S, Gosselin, T., Gunasekera, R. and Lansdell, M. **Connectivity of tuna and billfish species targeted by the Australian Eastern Tuna and Billfish Fishery with the broader Western Pacific Ocean** | 4.1 |
| **SA-IP-14** | Quiroz. J., Hoyle, S. **Data preparation for Southeast Pacific blue and shortfin mako sharks** | 4.3.3 |
| **SA-IP-15** | P.M. Grewe, Wudianto, C.H. Proctor, M.S. Adam, A.R. Jauhary, K. Schafer, D. Itano, K. Evans, A. Killian, S. Foster, T. Gosselin, P. Feutry, J. Aulich, R. Gunasekera, M. Lansdell and C.R. Davies. **Population Structure and Connectivity of Tropical Tuna Species across the Indo-Pacific Ocean Region.** | 4.1 |
| **SA-IP-16** | J. C. Holdsworth, T. H. Kendrick and M. Domeier. **Characterisation of New Zealand striped marlin fisheries** | 4.4.2.1 |
| **SA-IP-17** | Tremblay-Boyer, L. and Neubauer, P. **Historical catch reconstruction and CPUE standardization for the stock assessment of oceanic whitetip shark in the Western and Central Paciﬁc Ocean** | 4.3.1.1 |
| **SA-IP-18** | Farley, J. Krusic-Golub, K. and Kopf, K. **Preliminary ageing of striped marlin in the southwest Pacific using otoliths** | 4.4.2.1 |
| **SA-IP-19** | IATTC. **Report of the Workshop on Age and Growth of Bigeye and Yellowfin Tunas in the Pacific Ocean.** | 4.1.1.1a |
| **SA-IP-20** | ISC. **Report of the Pacific Bluefin Tuna Working Group Intersessional Workshop (ISC19 – ANNEX 08)** | 4.2.2 |

**MANAGEMENT ISSUES THEME**

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| ***MI THEME – Working Papers*** | |  |
| **MI-WP-01** | Pilling, G., Scott, F and Hampton, J. **Minimum Target Reference Points for WCPO yellowfin and bigeye tuna consistent with alternative LRP risk levels, and multispecies implications** | 5.1.2 |
| **MI-WP-02** | Pilling, G. **Alternative trajectories to achieve the South Pacific albacore interim TRP (Rev.01)** | 5.1.2 |
| **MI-WP-03** | N. Yao, F. Scott, R. Scott, G. M. Pilling and J. Hampton. **Performance indicators for comparing management procedures for South Paciﬁc albacore using the MSE modelling framework** | 5.1.3c |
| **MI-WP-04** | Scott, F., R. Scott, N. Yao, G. Pilling and J. Hampton. **Mixed fishery and multi-species issues** **in harvest strategy evaluations** | 5.1.3a |
| **MI-WP-05** | Scott, R., F. Scott, N. Yao, G. Pilling and J. Hampton. **Results of Initial Evaluations of Management Procedures for Skipjack** | 5.1.3b |
| **MI-WP-06** | Scott, F., R. Scott, N. Yao, G. Pilling and J. Hampton. **Considering Uncertainty When Testing and Monitoring WCPFC Harvest Strategies** | 5.1.3b |
| **MI-WP-07** | N. Yao, R. Scott, F. Scott, G. M. Pilling and J. Hampton. **CPUE** **analysis for South Pacific albacore** | 5.1.3c |
| **MI-WP-08** | R. Scott, N. Yao, F. Scott and G. Pilling. **South Pacific albacore management strategy evaluation framework** | 5.1.3c |
| **MI-WP-09** | F. Scott, R. Scott, N. Yao, G. Pilling and J. Hampton **Harvest strategy engagement tools** | 5.1.3b |
| **MI-WP-10** | **(Combined with MI-WP-04)** |  |
| **MI-WP-11** | Pilling, G., Williams, P. and Hampton, J. **Evaluation of CMM 2018-01 for tropical tuna** | 5.3.1 |
| **MI-WP-12** | Escalle, L., Muller, B., Scutt-Phillips, J., Brouwer, S., Pilling, G. and the PNA Office **Report on analyses of the 2016/2019 PNA FAD tracking programme** | 5.3.2a |
| **MI-WP-13** | Escalle, L., Vanden Heuvel, B., Clarke, R., Brouwer, S. and Pilling, G. **Report on preliminary analyses of FAD acoustic data** | 5.3.2b |
| **MI-WP-14** | Wakeford, R., Merino, G., Apostolaki, P., Skerritt, D. and Davies, T. **State of play of the MSE process across tuna RFMOs.** | 5.1.4 |
| ***MI THEME – Information Papers*** | |  |
| **MI-IP-01** | WCPFC15. **Workplan for the adoption of harvest strategies under CMM 2014-06** | 5.1.1 |
| **MI-IP-02** | Scott, R., F. Scott, N. Yao, G. Pilling, J. Hampton and N. Davies  **The WCPO** **Skipjack MSE Modeling Framework** | 5.1.3b |
| **MI-IP-03** | F. Scott, R. Scott, N. Yao, R. Hillary, T. Kitakado, N. Davies, G. Pilling and J. Hampton **Report of the Second Expert Consultation Workshop on Management Strategy Evaluation** | 5.1.3 |
| **MI-IP-04** | Zhou, S., Deng, R., Hoyle, S. and Dunn, M. **Identifying appropriate reference points for elasmobranchs within the WCPFC** | 5.2 |
| **MI-IP-05** | Vidal, T., Muller, B., Pilling, G. and the PNAO. **Evaluation of effort creep indicators in the WCPO purse seine fishery** | 5.3.1 |
| **MI-IP-06** | Secretariat and SPC-OFP. **Catch and effort tables on tropical tuna CMMs** | 5.3.1 |
| **MI-IP-07** | Miller, S., Anganuzzi, A., Butterworth, D., Davies, C., Donovan, G., Nickson, A., Rademeyer, R. and Restrepo, V. **Improving communication: the key to more effective MSE processes** | 5.1.4 |
| **MI-IP-08** | Secretariat. **Terms of reference for science-management dialogue** | 5.1.4 |
| **MI-IP-09** | SPC-OFP. **Current and projected stock status of skipjack tuna to inform consideration of Target Reference Points** | 5.1.2c |
| **MI-IP-10** | ISC. **Report of the First North Pacific Albacore Management Strategy Evaluation (ISC19 – ANNEX 12)** |  |

**ECOSYSTEM AND BYCATCH MITIGATION THEME**

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| ***EB THEME – Working Papers*** | |  |
| **EB-WP-01** | Common Oceans (ABNJ) Tuna Project. **Report of the Workshop on** **Joint Analysis of Shark Post-Release Mortality Tagging Results** | 6.2.3.b |
| **EB-WP-02** | Brouwer, S. **Progress on the WPCFC stock assessments and shark research plan (summary table)** | 6.2.3 |
| **EB-WP-03** | T. Peatman, E. Abraham, D. Ochi, D. Webber and N. Smith. **Project 68: Estimation of seabird mortality across the WCPFC Convention Area** | 6.3.1 |
| **EB-WP-04** | Hutchinson, M., Bigelow, K., and Carvalho, F. **Quantifying post release mortality rates of shark bycatch in Pacific tuna longline fisheries and identifying handling practices to improve survivorship** | 6.2.2 |
| **EB-WP-05** | Kiyofuji, H., Ohashi, S., Aoki, Y., Masujima, M., Tanaka, F., Fujioka, K., Okazaki, M., Aoki, A., Satoh, K., Fayakun, S., Priatna, A. and Taufik, M. **Overview of recent research cruises in the WCPO and Indonesian archipelagic water by the R/V Shunyo-Maru of NRIFSF** | 6.6 |
| **EB-WP-06** | Katumata, N., Okamoto, K., Oshima, K. and Ochi, D. **Research update about the effective design of tori-line for Japanese small-scale fleet in the North Pacific** | 6.3.1 |
| **EB-WP-07** | Birdlife International. **Report of the Final Global Seabird Bycatch Assessment Workshop** | 6.3.1 |
| **EB-WP-08** | Scutt Phillips, J., Leroy, B., Peatman, T., Escalle, L. and Smith, N. **Electronic tagging for the mitigation of bigeye and yellowfin tuna juveniles by purse seine fisheries** | 6.6 |
| **EB-WP-09** | **(Re-numbered as SC15-EB-IP-04)** |  |
| **EB-WP-10** | Debski, I., and Ayrton, H. **Safe handling and release guidelines for seabirds.** | 6.3.1 |
| **EB-WP-11** | Zudaire, I., Tolotti, M., Murua, J., Capello, M., Andrés, M., Cabezas, O., Krug, I., Grande, M., Arregui, I., Uranga, J. Goñi, N., Ferarios, J., Ruiz, J., Baidai, Y., Ramos, M., Báez, J., Abascal, F., Moreno, G., Santiago, J., Dagorn, L., Arrizabalaga, H. and Murua, H. **Preliminary results of the BIOFAD Project: Testing designs and identify options to mitigate impacts of drifting fish aggregation devices non the ecosystem (Rev.01)** | 6.1.1.1 |
| **EB-WP-12** | Juan-Jorda, M., Murua, H., Apostolaki, P., Lynam, C., Rodriguez, A., Barrionuevo, J., Abascal, F., Coelho, R., Todorovic, S., Billet, N., Uyarra, M., Andonegi, E. and Lopez, J. **Selecting ecosystem indicators for fisheries targeting highly migratory species: An EU project to advance the operationalization of the EAFM in ICCAT and IOTC** | 6.6 |
| **EB-WP-13** | Joint t-RFMO FAD Working Group. **Report of the 2nd Meeting of the Joint Tuna RFMOs Working Group on FADs** | 6.1.1.2 |
| ***EB THEME – Information Papers*** | |  |
| **EB-IP-01** | Fitzsimmons, L., Abraham, E., Caillot, S. and Smith, N. **An update on the Bycatch Management Information System (BMIS): developments in 2018-19 including the integration of data visualisation and mapping for bycatch data** | 6.5 |
| **EB-IP-02** | Justel-Rubio, A., Swimmer, Y. and Hutchinson, M. **Graphics for Best Handling Practices for the Safe Release of Sharks** | 6.2.2 |
| **EB-IP-03** | ACAP. **ACAP advice for reducing the impact of pelagic longline fishing operations on seabirds** | 6.3.1 |
| **EB-IP-04** | Chin, A. and C. Simpfendorfer. **Operational Planning for Shark Biological Data Improvement** | 6.2.3 |
| **EB-IP-05** | Swimmer, Y. **IATTC Bycatch Working Group Report** | 6.6.1 |
| **EB-IP-06** | Japan. **Management Plan for Longline Fisheries Targeting Sharks** | 6.2.1 |

**ANNUAL REPORT – PART 1**

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| **Symbol** | **CCMs** |
| AR-CCM-01 | Australia |
| AR-CCM-02 | Canada |
| AR-CCM-03 | China |
| AR-CCM-04 | Cook Islands |
| AR-CCM-05 | European Union |
| AR-CCM-06 | Federated States of Micronesia |
| AR-CCM-07 | Fiji |
| *Covered by its territories* | *France* |
| AR-CCM-08 | French Polynesia |
| AR-CCM-09 | Indonesia |
| AR-CCM-10 | Japan |
| AR-CCM-11 | Kiribati |
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**RESEARCH PROJECTS**

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| ***GEF ABNJ Shark and BMIS project*** | |  |
| **RP-ABNJ-01** | Clarke, S. and N. Smith. [**Update on the Common Oceans (ABNJ) Tuna Project’s Shark and Bycatch Components, 2018-2019**](https://www.wcpfc.int/node/31002) | 7.3 |
| ***JAPAN TRUST FUND*** | |  |
| **RP-JTF-01** | Secretariat. **Japan Trust Fund Status Report (2019)** | 9 |
| **RP-JTF-02** | Secretariat.[**Japan Trust Fund Steering Committee Meeting Report (2019)**](https://www.wcpfc.int/node/31624) | 9 |
| ***PROJECT 35 BIGEYE BIOLOGY & 35b WCPFC TISSUE BANK*** | |  |
| **RP-P35b-01 Rev.1** | SPC-OFP. **Project 35b: WCPFC Tuna Tissue Bank** | 7.4 |
| ***PACIFIC TUNA TAGGING PROJECT*** | |  |
| **RP-PTTP-01** | Smith, N. and Hampton, J. **Report of the Pacific Tuna Tagging Programme Steering Committee** | 7.2 |
| **RP-PTTP-02** | SPC-OFP. **Project 42: Pacific Tuna Tagging Project Report for 2019-2022** | 7.2 |
| ***WEST PACIFIC EAST ASIA PROJECT*** | |  |
| **RP-WPEA-01** | Secretariat.**WPEA Project Progress Report** | 7.1 |

**NGO and Others**

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| WWF. **Global Oceans Practice – WWF Position** |
| WWF. **Summary Report: Seafood and Fisheries Emerging Technologies (SAFET) Conference, 2019 – Illuminating the Supply Chain** |
| The Pew Charitable Trusts. **Statement to the WCPFC-SC15** |
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