

**SCIENTIFIC COMMITTEE**

**EIGHTEENTH REGULAR SESSION**

Electronic Meeting

10 – 18 August 2022

**LIST OF DOCUMENTS**

**WCPFC-SC18-2022/07 (Rev.03)**

**7 February 2023**

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| ***GENERAL PAPERS – Information Papers*** |  |
| **SC18-GN-IP-01** | P. Williams and T. Ruaia. **Overview of tuna fisheries in the Western and Central Pacific Ocean, including economic conditions – 2021** | **ODF01** |
| **SC18-GN-IP-02** | IATTC. **The Tuna Fishery in the Eastern Pacific Ocean in 2021** | **ODF02** |
| **SC18-GN-IP-03** | ISC. **Report of the 22nd Meeting of the International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean**  |  |
| **SC18-GN-IP-04** | Secretariat. **Cooperation with other organizations** |  |
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| **SC18-GN-IP-07** | Secretariat. **Terms of Reference for 2022 project proposals**  |  |
| **SC18-GN-IP-07a** | Secretariat. **Proposed budget and priorities for 2023-2025 project proposals** |  |
| **SC18-GN-IP-08** | K. Satoh, Y. Tsuda, K. Okamoto, J. Matsubayashi and H. Minami. **Proposed procedures in accordance with "Access to genetic resources and Benefit-Sharing" (ABS) concept for publishing scientific paper in the Western and Central Pacific Fisheries Commission** | **ODF26** |
| **SC18-GN-IP-09** | Secretariat. **COVID-19 related Intersessional Decisions** |  |

 **SCIENCE-RELATED DOCUMENTS PRESENTED AT WCPFC18**

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| **WCPFC18-2021-10** | SPC-OFP. **Further updates to WCPO skipjack tuna projected stock status to inform consideration of an updated target reference point (Update of SC17-MI-WP-02)** |  |
| **WCPFC18-2021-11** | SPC-OFP. **Updated WCPO bigeye and yellowfin TRP evaluations (Update of SC17 MI-WP-01)** |  |
| **WCPFC18-2021-15** | SPC-OFP. **Results of analyses requested by TTMW2 and TTMW1** |  |
| **WCPFC18-2021-17** | SPC-OFP. **Recalibration of the target reference point for South Pacific albacore** |  |
| **WCPFC18-2021-20** | SPC-OFP. **Southwest Pacific swordfish projections** |  |
| **WCPFC18-2021-24** | Indonesia and SPC-OFP. **Options for a baseline of the “large-fish” Handline fishery fishing in Indonesia’s EEZ (IEEZ) with vessels >30GT for the WCPFC Tropical Tuna Measure** |  |
| **WCPFC18-2021-IP02\_rev1** | SPC-OFP. **The western and central Pacific tuna fishery: 2020 overview and status of stocks** |  |

**DATA AND STATISTICS THEME**

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| **SC18-ST-WP-01** | SPC-OFP. **Scientific data available to the Western and Central Pacific Fisheries Commission** |  |
| **SC18-ST-WP-02** | Indonesia and SPC-OFP. **An update on the options for a baseline of the “large-fish” Handline fishery fishing in Indonesia’s EEZ (IEEZ) with vessels >30GT for the WCPFC Tropical Tuna Measure** |  |
| ***ST THEME – Information Papers*** |  |
| **SC18-ST-IP-01** | SPC-OFP. **Estimates of annual catches in the WCPFC statistical area** |  |
| **SC18-ST-IP-02** | A. Panizza, P. Williams, C. Falasi, E. Loganimoce and E. Schneiter. **Status of observer data management** |  |
| **SC18-ST-IP-03** | T. Peatman, P. Williams and S. Nicol. **Project 60: Progress towards achieving SC17 recommendations** | **ODF03** |
| **SC18-ST-IP-04** | J. Macdonald, P. Williams, C. Sanchez, E. Schneiter, S. Prasad, M. Ghergariu, M. Hosken, A. Panizza, T. Park, and S. Nicol. **Project 90 update: Better data on fish weights and lengths for scientific analyses** | **ODF04** |
| **SC18-ST-IP-05** | Tim Park. **Training observers for elasmobranch biological sampling (Project 109)** | **ODF05** |
| **SC18-ST-IP-06** | SPC-OFP. **Designing EM reviewing rates for WCPFC fisheries** | **ODF06** |
| **SC18-ST-IP-07** | I. Tanangonan, M. Demo-os, J. Jara, R. Ramiscal and A. Dickson. **Group Seine Operations of Philippine Flagged Vessels in High Seas Pocket Number 1 (HSP1)** |  |
| **SC18-ST-IP-08** | Z. Geng, C. Zhou, X. Dai, F. Wu, and J. Zhu**. Overview of research cruises by Chinese fishery research vessel "Song Hang"** **in the WCPFC area** |  |
| **SC18-ST-IP-09** | PNA and Tokelau. **FAD Minimum Data Fields to be Recorded by WCPFC Purse Seine Vessel Operators** | **ODF7** |
| **SC18-ST-IP-10** | SPC-OFP. **Tables of coverage levels for operational data fields submitted to the WCPFC** |  |
| **SC18-ST-IP-11** | SPC-OFP. **Draft PROPOSAL for a Project to improve the coverage of cannery receipt data for WCPFC scientific work** |  |

**STOCK ASSESSMENT THEME**

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| **SC18-SA-WP-01** | C. Castillo Jordán , T. Teears, J. Hampton, N. Davies , J. Scutt Phillips, S. McKechnie, T. Peatman , J.MacDonald, J. Day, A. Magnusson, R. Scott, F. Scott, G. Pilling, and P. Hamer. **Stock assessment of skipjack tuna in the western and central Pacific Ocean: 2022** |  |
| **SC18-SA-WP-02** | K. Large, P. Neubauer and S. Brouwer. **Stock assessment of Southwest Pacific Shortfin Mako shark** |  |
| **SC18-SA-WP-03** | P. Neubauer, F. Carvalho, N. Ducharme-Barth, K. Large, S. Brouwer, J. Day and P. Hamer. **Report on WCPFC project 107b: Improved stock assessment and structural uncertainty grid for Southwest Pacific blue shark** |  |
| **SC18-SA-WP-04** | J.S. Phillips, J. Lehodey, J. Hampton, P. Hamer, I. Senina1 and S. Nicol. **Quantifying Rates of Mixing in Tagged, WCPO Skipjack Tuna** |  |
| **SC18-SA-WP-05** | ISC. **Stock assessment of Pacific bluefin tuna in the Pacific Ocean in 2022** |  |
| **SC18-SA-WP-06** | ISC. **Stock assessment and future projections of blue sharks in the North Pacific Ocean through 2020** |  |
| **SC18-SA-WP-07** | ISC. **Modeling improvements for the Western and Central north Pacific Ocean striped marlin (*kajikia audax*) to be implemented in the benchmark stock assessment in 2023** |  |
| ***SA THEME – Information Papers*** |  |
| **SC18-SA-IP-01** | S. Hare, G. Pilling, and P. Williams. **A compendium of fisheries indicators for target tuna stocks in the WCPFC Convention Area** | **ODF08** |
| **SC18-SA-IP-02** | P. Hamer. **Report from the SPC Pre-assessment Workshop – March 2022** |  |
| **SC18-SA-IP-03** | N. Davies, D. Fournier, F. Bouyé, and J. Hampton. **Developments in the Multifan-CL software 2021-22** |  |
| **SC18-SA-IP-04** | SPC-OFP. **Updated draft research plan for ‘key’ tuna species in the WCPO, 2022-2025** | **ODF09** |
| **SC18-SA-IP-05** | T. Teears, Y. Aoki, N. Matsubura, Y. Tsuda, C. Castillo Jordan, J. Hampton, E. Schneiter, J. Scutt Phillips, T. Peatman, K. Bigelow, and P. Hamer. **Background analyses and data inputs for the 2022 skipjack stock assessment in the Western and Central Pacific Ocean** |  |
| **SC18-SA-IP-06** | J. Macdonald, J. Day, A. Magnusson, M. Maunder, Y. Aoki, N. Matsubara, Y. Tsuda, S. McKechnie, T. Teears, B. Leroy, C. Castillo-Jordán, J. Hampton, and P. Hamer. **Review and new analyses of skipjack growth in the Western and Central Pacific Ocean** | **ODF10** |
| **SC18-SA-IP-07** | S. Brouwer, K. Large and P. Neubauer. **Characterisation of the fisheries catching South Pacific shortfin mako sharks (*Isurus oxyrinchus*) in the Western and Central Pacific Ocean** |  |
| **SC18-SA-IP-08** | A. Magnusson, J. Day, C. Castillo-Jordan, S. McKechnie, N. Davies, T. Teears, J. Hampton, and P. Hamer. **Yellowfin tuna assessment peer review status update** |  |
| **SC18-SA-IP-09** | SPC-OFP. **DRAFT Terms of reference for an independent peer review of uncertainty characterisation including ensemble model approaches in WCPFC stock assessments** | **ODF11** |
| **SC18-SA-IP-10** | SPC-OFP. **Progress towards a Close-Kin-Mark-Recapture application to South Pacific Albacore**  | **ODF12** |
| **SC18-SA-IP-11** | J. Natasha, B. L. Stockwell, A. D. Marie, J. Hampton, N. Smith, S. Nicol and C. Rico. **No Population Structure of Bigeye Tunas (*Thunnus obesus*) in the Western and Central Pacific Ocean Indicated by Single Nucleotide Polymorphisms** | **ODF13** |
| **SC18-SA-IP-12** | J. Muir, R. Barker, M. Hutchinson, B. Leroy, S. Nicol and J. Scutt Phillips. **Estimating post-release mortality of longline caught tropical tunas in the Pacific Ocean** | **ODF14** |
| **SC18-SA-IP-13** | K. Large, P. Neubauer, S. Brouwer, M. Kai**. Inputs to the Stock assessment of Southwest Pacific Shortfin mako shark** |  |
| **SC18-SA-IP-14** | A. Andrews, K. Okamoto, K. Satoh, F. Roupsard, C. Welte, and J. Farley. **Progress report on bomb radiocarbon age validation for yellowfin and bigeye tunas in the WCPO (Project 105) - 2022** | **ODF15** |
| **SC18-SA-IP-14a** | A. Andrews, K. Okamoto, K. Satoh, C. Welte, P. Eveson, F. Roupsard, J. Macdonald, B. Lockheed, J. Farley. **Final** **report on bomb radiocarbon age validation for yellowfin and bigeye tunas in the WCPO (Project 105) - 2022** |  |
| **SC18-SA-IP-15** | Placeholder |  |
| **SC18-SA-IP-16** | N. Matsubara, Y. Aoki, and Y. Tsuda. **Historical developments of fishing devices in Japanese pole-and-line fishery** |  |
| **SC18-SA-IP-17** | Y. Aoki, N. Matsubara, and Y. Tsuda. **Procedure of the tag data preparation for the Japanese tagging program** |  |
| **SC18-SA-IP-18** | K. Okamoto, T. Hasegawa, K. Kumon, T. Eba, T. Matsumoto, H. Yokoi, and K. Satoh. **Preliminary analysis for the relationship between otolith weight and fork length of bigeye and yellowfin tunas** |  |
| **SC18-SA-IP-19** | Peatman, T. **Analysis of tag seeding data and reporting rates for purse seine fleets** |  |
| **SC18-SA-IP-20** | T. Peatman, J. Scutt Phillips, J. Potts and S. Nicol. **Analysis of tagging data for the 2022 skipjack tuna assessment: corrections for tagging conditions** |  |

**MANAGEMENT ISSUES THEME**

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| ***MI THEME – Working Papers*** |  |
| **SC18-MI-WP-01** | R. Scott, F. Scott, N. Yao, P. Hamer, and G. Pilling. **Operating models for skipjack tuna in the WCPO** |  |
| **SC18-MI-WP-02** | R. Scott, F. Scott, N. Yao, P. Hamer, and G. Pilling. **Evaluations of candidate management procedures for skipjack tuna in the WCPO** |  |
| **SC18-MI-WP-03** | R. Scott, N. Yao, F. Scott, T. Teears, T. Peatman, J. Hampton, P. Hamer, and G. Pilling. **WCPO skipjack management procedure: dry run** |  |
| **SC18-MI-WP-04** | Pilling, G. **Further analyses to inform discussions on South Pacific albacore objectives and the TRP** |  |
| **SC18-MI-WP-05** | R. Scott, N. Yao, F. Scott P. Hamer, and G. Pilling. **Progress update and technical challenges for the South Pacific albacore MSE framework** |  |
| **SC18-MI-WP-06** | F. Scott, R. Scott, N. Yao, G. M. Pilling and P. Hamer. **Mixed fishery harvest strategy update** |  |
| **SC18-MI-WP-07** | F. Scott, R. Scott, N. Yao, G. M. Pilling and P. Hamer. **Mixed-fishery harvest strategy performance indicators** |  |
| **SC18-MI-WP-08** | Australia. **A revised draft conservation and management measure for South Pacific Swordfish in the WCPFC Area** |  |
| **SC18-MI-WP-09** | G. Pilling, R. Scott, P. Hamer, J. Hampton. **Further updates to WCPO skipjack tuna projected stock status to inform consideration of an updated target reference point** |  |
| ***MI THEME – Information Papers*** |  |
| **SC18-MI-IP-01** | S. McKechnie, P. Williams, G. Pilling, and the WCPFC Secretariat. **Trends in the South Pacific albacore longline and troll fisheries** |  |
| **SC18-MI-IP-02** | P. Hamer, T. Teears, and the PNAO. **Examining Indicators of Effort Creep in the WCPO Purse Seine Fishery** | **ODF16** |
| **SC18-MI-IP-03** | G. Pilling, R. Scott, P. Hamer, J. Hampton, F. Scott, and N. Yao. **Key decisions for the WCPFC Commission and Scientific Committee under the harvest strategy approach for WCPO tuna stocks and fisheries UPDATE to SC14-MI-WP-05** | **ODF17** |
| **SC18-MI-IP-04** | S. Hare, R. Scott, P. Hamer and G. Pilling. **Updated WCPO bigeye and yellowfin TRP evaluations** |  |
| **SC18-MI-IP-05** | F. Scott, R. Scott, N. Yao, G. M. Pilling and P. Hamer. **Including South Pacific albacore in the WCPFC mixed-fishery harvest strategy framework** |  |
| **SC18-MI-IP-06** | P. Hamer, G. Pilling, P. Williams. **Updates to table 9 of the evaluation of CMM 2021-01** |  |
| **SC18-MI-IP-07** | S. Hare, R. Scott, P. Hamer and G. Pilling. **Southwest Pacific swordfish stock projections** |  |
| **SC18-MI-IP-08** | WCPFC Secretariat and SPC-OFP. **Catch and effort data summaries to support discussions on TROPICAL TUNA CMMs** |  |
| **SC18-MI-IP-09** | G. Pilling, R. Scott, P. Hamer, and J. Hampton. **Summary of results focused on skipjack, yellowfin and bigeye, as presented to WCPFC18 in support of the development of the new WCPFC Tropical Tuna Measure** |  |
| **SC18-MI-IP-10** | F. Scott, R. Scott, N. Yao, G. M. Pilling and P. Hamer. **Update on capacity building and stakeholder engagement activities for WCPFC harvest strategies** |  |
| **SC18-MI-IP-11** | SPC-OFP. **Catch and effort data summaries to support discussions on the new SWORDFISH CMM** |  |
| **SC18-MI-IP-12** | R. Scott, F. Scott, N. Yao, P. Hamer, and G. Pilling. **Consideration of the robustness set of operating models for skipjack tuna in the WCPO** | **ODF29** |
| **SC18-MI-IP-13** | SPC-OFP. **Functions of the monitoring strategy for WCPO skipjack tuna** |  |
| **SC18-MI-IP-14** | SPC-OFP. **Data collection programme to support a management procedure for WCPO skipjack tuna** |  |

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| **SC18-EB-WP-01** | SPC-OFP. **Ecosystem and Climate Indicators** |  |
| **SC18-EB-WP-02** | K. Bigelow, J. Rice and F. Carvalho. **Future Stock Projections of Oceanic Whitetip Sharks in the Western and Central Pacific Ocean (Update on Project 101)** |  |
| **SC18-EB-WP-03** | ACAP. **Conservation Status of** **Albatrosses and Petrels and Advice on Reducing their Bycatch in WCPFC Fisheries** |  |
| **SC18-EB-WP-04** | Daisuke Ochi. **Consideration for tori-line and tori-pole design suitable for small-scale tuna longline vessels in the North Pacific based on experimental results** |  |
| ***EB THEME – Information Papers*** |  |
| **SC18-EB-IP-01** | L. Escalle, G. Moreno, S. Hare and P. Hamer. **Report of Project 110: Non-entangling and biodegradable FAD trial in the Western and Central Pacific Ocean** | **ODF18** |
| **SC18-EB-IP-02** | Escalle L., Scutt Phillips J., Moreno G, Lopez J., Lynch J., Murua H., Aires-da-Silva A., Royer S.J., Hampton J., Swimmer Y., Wallace, B., Restrepo V. **Modelling drifting Fish Aggregating Devices (dFADs) trajectories arriving at essential habitats for sea turtles in the Pacific Ocean** |  |
| **SC18-EB-IP-03** | Escalle L., Mourot J., Bigler B., Jaugeon B., Kutan M., Lynch J.M., Nicholas T.R., Pollock K., Prioul F., Royer S.J., Thellier T., Wichman J., Jon Lopez, the PNA Office, Hare S., and Hamer P.. **Preliminarily analyses of the regional database of stranded drifting FADs in the Pacific Ocean** | **ODF19** |
| **SC18-EB-IP-04** | SPC-OFP and Secretariat. **Progress against the 2021-2025 Shark Research Plan**  |  |
| **SC18-EB-IP-05** | A. Trujillo-Gonzalez, T. Li, J. Potts, S. Nicol, V. Allain, S. C. Godwin, E. Vourey, A. Portal, B. Kumasi, T. Usu, A. Rodrigo and D. Gleeson. **Can Stomach Content and Microbiomes of Tuna Provide Near Real-Time Detection of Ecosystem Composition in the Pacific Ocean?** | **ODF20** |
| **SC18-EB-IP-06** | WCPFC FAD Management Options IWG. **Guidelines for Non-entangling and Biodegradable FAD Materials** (FADMO-IWG-04-2020-WP-02) | **ODF21** |
| **SC18-EB-IP-07** | Cara Miller. **Review of cetacean diversity, status and threats in the Pacific Islands region 2021** | **ODF22** |
| **SC18-EB-IP-08** | M. Cronin, D. Croll, M. Hall, N. Lezama-Ochoa, J. Lopez, H. Murua, J. Murua, V. Restrepo, S. Rojas-Perea, J. Stewart, J. Waldo and G. Moreno. **Harnessing stakeholder knowledge for the collaborative development of Mobulid bycatch mitigation strategies in tuna fisheries** |  |
| **SC18-EB-IP-09** | Richard, Y. **Antipodean albatross population assessment** |  |
| **SC18-EB-IP-10** | Bose, S. and Debski, I. **Antipodean albatross spatial distribution and fisheries overlap** |  |
| **SC18-EB-IP-11** | (placeholder) |  |
| **SC18-EB-IP-12** | Secretariat (Consultancy). **Graphics for Best Practices for the Safe Handling and Release of Cetaceans** | **ODF23** |
| **SC18-EB-IP-13** | WCPFC FAD Management Options IWG. **Preliminary Review of Available Information on Biodegradable FADs** | **ODF21** |
| **SC18-EB-IP-14** | Gilman, E., Naholowaa, H.A., Ishizaki, A., Chaloupka, M., Brady, C., Carnes, M., Ellgen, S., Wang, J., and Kingma, E. **Practicality and Efficacy of Tori Lines to Mitigate Albatross Interactions in the Hawaii Deep-set Longline Fishery** | **ODF24** |
| **SC18-EB-IP-15** | Chaloupka, M., Gilman, E., Carnes, M., Ishizaki, A., Brady, C., Swimmer, Y., Wang, J., Ellgen, S., and Kingma, E. **Could tori lines replace blue-dyed bait to reduce seabird bycatch risk in the Hawaii deep-set longline fishery?** | **ODF25** |
| **SC18-EB-IP-16** | Moreno, G., Murua, J., Cronin, M., Murua, H.Ferarios, JM., Lezama, N., Swimmer, Y., and Restrepo, V. **Addressing key research to inform Mobula rays conservation in the Pacific Ocean** |  |
| **SC18-EB-IP-17** | G. Moreno, J. Salvador, I. Zudaire, J. Murua, J. Pelegrí, J. Uranga, H. Murua, M. Grande, V. Restrepo. **The jelly-FAD: A paradigm shift in biodegradable FAD design** |  |
| **SC18-EB-IP-18** | K. Bigelow and F. Carvalho. **Statistical and Monte Carlo Analysis of the Hawaii Deep-Set Longline Fishery with Emphasis on Take and Mortality of Oceanic Whitetip Shark** | **ODF27** |
| **SC18-EB-IP-19** | M. Hutchinson, Z. Siders, J. Stahl and K. Bigelow. **Quantitative estimates of post-release survival rates of sharks captured in Pacific tuna longline fisheries reveal handling and discard practices that improve survivorship** |  |
| **SC18-EB-IP-20** | M. Scott, E. Cardona, K. Scidmore-Rossing, M. Royer, J. Stahl, and M. Hutchinson. **What’s the catch? Examining optimal longline fishing gear configurations to minimize negative impacts on non-target species** |  |
| **SC18-EB-IP-21** | E. Gilman, M. Chaloupka, A. Ishizaki, M. Carnes, H. Naholowaa, C. Brady, S. Ellgen, and E. Kingma. **Tori lines mitigate seabird bycatch in a pelagic longline fishery** |  |
| **SC18-EB-IP-22** | E. Gilman, J. Humberstone, J. R. Wilson, E. Chassot, A. Jackson, and P. Suuronen. **Matching fishery-specific drivers of abandoned, lost and discarded fishing gear to relevant interventions** |  |

**RESEARCH PROJECTS**

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| ***GEF ABNJ Shark and BMIS project*** |  |
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| **SC18-RP-JTF-01** | Secretariat. **Japan Trust Fund Status Report (2021)** |  |
| **SC18-RP-JTF-02** | Secretariat.[**Japan Trust Fund Steering Committee Meeting Report (2021)**](https://www.wcpfc.int/node/31624) |  |
| ***PACIFIC MARINE SPECIMEN BANK (PROJECT 35B)*** |  |
| **SC18-RP-P35b-01** | SPC-OFP. **Project 35b: WCPFC Pacific Marine Specimen Bank** |  |
| **SC18-RP-P35b-02** | PMSB Steering Committee. **Report of the Pacific Marine Specimen Bank Steering Committee** |  |
| ***PACIFIC TUNA TAGGING PROJECT*** |  |
| **SC18-RP-PTTP-01** | SPC-OFP**. Project 42: Pacific Tuna Tagging Project Report and Work-plan for 2022-2025** |  |
| **SC18-RP-PTTP-02** | SPC-OFP. **Project 42: Report of the Pacific Tuna Tagging Project Steering Committee** |  |
| ***WEST PACIFIC EAST ASIA PROJECT*** |  |
| **SC18-RP-WPEA-01** | Lars Olsen. **WPEA-ITM Project Update** | **ODF28** |

**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  |
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| *Northern Mariana Islands* |
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**NGO and Others**

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|  | Birdlife International. Birdlife International Statement: Electronic Monitoring must be prioritised to ensure improved data collection on the bycatch of seabirds |
|  | BirdLife International. BirdLife International Statement: SC18 Agenda Item 5.3: SEABIRD BYCATCH MITIGATION METHODS |

**PRESENTATIONS**

|  |  |  |
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| **Symbol** | **Title** |  |
|  |  |  |