



**SCIENTIFIC COMMITTEE
SECOND REGULAR SESSION**

7-18 August 2006
Manila, Philippines

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WCPFC-SC2-2006/06 (Rev. 5)

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GENERAL PAPERS

GN WP-1	Williams, P. & C. Reid. Overview of the Western and Central Pacific Ocean (WCPO) tuna fisheries, including economic conditions – 2005. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia and Forum Fisheries Agency. Honiara, Solomon Islands.	
GN WP-2	Secretariat. Draft rules of procedure for WCPFC subsidiary bodies.	
GN WP-3	Secretariat. Draft terms of reference: Independent review of transitional science structure and functions.	

GN WP-4	Secretariat. Draft research plan.	
GN WP-5	Secretariat. Draft publication policy for publications of the Commission.	
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GN WP-7	Harley, S. A summary of requests to the Scientific Committee from WCPFC-2. Ministry of Fisheries, Wellington, New Zealand.	
GN WP-8	Secretariat. The Commission's regional observer program.	
GN WP-9	Secretariat. Principles and procedures for dissemination of compliance and science data by the Commission.	AHTG will provide
GN WP-10	Secretariat. Rules and procedures for the security of data held by the WCPFC.	AHTG will provide
GN WP-11	SPC. Regional tuna tagging project, Phase 1: Papua New Guinea.	
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GN IP-3	Secretariat. Information on seabird mitigation measures of other RFMOs.	

STATISTICS SPECIALIST WORKING GROUP PAPERS

ST WP-1	Lawson, T. Scientific aspects of observer programmes for tuna fisheries in the Western and Central Pacific Ocean. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.	
ST IP-1	Oceanic Fisheries Programme. Estimates of annual catches in the WCPFC Statistical Area. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.	
ST IP-2	Oceanic Fisheries Programme. Scientific Data Available to the Western and Central Pacific Fisheries	

	Commission. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.	
ST IP-3	Lawson, T. Observer coverage rates and reliability of CPUE estimates for purse seiners in the Western and Central Pacific Ocean. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	

METHODS SPECIALIST WORKING GROUP

ME WP-1	Langley, A. Summary report from yellowfin and bigeye stock assessment workshop. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
ME WP-2	Bigelow, K. Incorporation of other oceanographic factors into CPUE Standardizations. NOAA Fisheries, Honolulu, Hawaii.	
ME WP-3	Kolody, D., R. Campbell, and N. Davies. Multifan-CL Stock Assessment for South-West Pacific Broadbill Swordfish 1952-2004. CSIRO, Division of Marine Research, Hobart, Australia. National Institute of Water and Atmospheric Research, Whangarei, New Zealand.	
ME WP-4	Davies, N., R. Campbell, and D. Kolody. CASAL Stock Assessment for South-West Pacific Broadbill Swordfish 1952-2004. National Institute of Water and Atmospheric Research, Whangarei, New Zealand. CSIRO, Division of Marine Research, Hobart, Australia.	
ME IP-1	Langley, A. Spatial and temporal trends in yellowfin and bigeye longline CPUE for the Japanese fleet in the WCPO. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
ME IP-2	Langley, A. Spatial and temporal variation in the size composition of the yellowfin and bigeye longline catch in the WCPO. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
ME IP-3	Langley, A., H. Okamoto, P. Williams, N. Miyabe, and K Bigelow. A summary of the data available for the estimation of conversion factors (processed to whole fish weights) for yellowfin and bigeye tuna. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia. Japan National Research Institute of Far Seas Fisheries, Shimizu, Japan. Pacific Islands Fishery Science Center, National Marine Fisheries Service, Honolulu, Hawaii, USA.	

FISHING TECHNOLOGY SPECIALIST WORKING GROUP

<p align="center">FT WP-1</p>	<p>Ward, P. and Hindmarsh, S. An overview of historical changes in the fishing gear and practices of pelagic longliners. Fisheries and Marine Sciences, Bureau of Rural Sciences, Canberra, Australia.</p>	
<p align="center">FT WP-2</p>	<p>Campbell, R. and J. Young. Measuring effective longline effort in the Australian Eastern Tuna and Billfish Fishery. CSIRO. Division of Marine Research, Hobart, Australia.</p>	
<p align="center">FT WP-3</p>	<p>Dagorn L., Holland K., Puente E., Taquet M., Ramos A., Brault P., Nottestad L., Georgakarakos S., Deneubourg J.-L., Aumeeruddy R., Josse E., Dalen J. FADIO (Fish Aggregating Devices as Instrumented Observatories of pelagic ecosystems): a European Union funded project on development of new observational instruments and the behavior of fish around drifting FADs. Institute de recherche pour le développement (IRD), Seychelles, Indian Ocean. France</p>	
<p align="center">FT WP-4</p>	<p>Itano, D., Holland, K. and L. Dagorn. Behaviour of yellowfin (<i>Thunnus albacares</i>) and bigeye tuna (<i>T. obesus</i>) in a network of anchored Fish Aggregation Devices. Pelagic Fisheries Research Program, Honolulu, Hawaii, USA: Hawaii Institute of Marine Biology, Kaneohe, Hawaii: Institute de recherche pour le développement (IRD), Seychelles, Indian Ocean.</p>	
<p align="center">FT WP-5</p>	<p>Itano, D. and D. Kirby. Standardized fishery terms to facilitate communication within the Scientific Committee and with the WCPFC. Pelagic Fisheries Research Program, Honolulu, Hawaii, USA,; Secretariat of the Pacific Community, Noumea, New Caledonia.</p>	
<p align="center">FT WP-6</p>	<p>Itano, D. An examination of vessel, gear and operational details useful for fishery-specific effort standardization, including FAD-related gear and fishing strategies. Pelagic Fisheries Research Program, Honolulu, Hawaii, USA.</p>	
<p align="center">FT WP-7</p>	<p>Babaran, R. FAD Fishing and its Effects on Tuna Stocks. College of Fisheries and Ocean Sciences, University of the Philippines in the Visayas, Miag-ao, Iloilo, Philippines.</p>	
<p align="center">FT WP-8</p>	<p>J. Miquel², A. Delgado de Molina¹, J. Ariz¹, R. Delgado de Molina¹, S. Déniz, N. Díaz², Iglesias², J.C. Santana¹ y P. Brehmer³. Acoustic Selectivity in Tropical Tuna (Experimental Purse-seine Campaign in the Indian Ocean). ¹ Instituto Español de Oceanografía, Santa Cruz</p>	

	de Tenerife, Islas Canarias. ² Instituto Español de Oceanografía, Palma de Mallorca, España. ³ Institut de Recherche pour le Développement, Sete, France.	
FT IP-1	Bigelow, K., Musyl, M.K., Poisson, F., and P. Kleiber. Pelagic longline gear depth and shoaling. <i>Fisheries Research</i> 77 (2006) 173-183. NOAA Fisheries, Honolulu, Hawaii, USA; Joint Institute for Marine and Atmospheric Research, University of Hawai'i at Manoa, Honolulu, Hawaii, USA; Indian Ocean Tuna Commission, Seychelles, Indian Ocean.	
FT IP-2	Miyake, P.M. Factors affecting on recent development in tuna longline fishing capacity and possible options for management of longline capacity. Federation of Japan Tuna Fisheries Co-operative Associations, Tokyo, Japan.	
FT IP-3	Chapman, L., Sharples, P., Brogan, D., Desurmont, A., Beverly, S., and W. Sokimi. Marine species identification manual for horizontal longline fishermen. Secretariat of the Pacific Community, Noumea, New Caledonia.	
FT IP-4	Itano, D and S. Fukofuka, with development and translation assistance from M. de Beer, Yamasaki, G., Lewis, A.D., Taquet, M., Merta, G.S., Andamari, R., Proctor, C., Sarralde, R., Matsumoto, T., Kwoh, J.-R., Moon, D-Y, Choi, Y., Lu-Chen, JY, and the Interpretation and Translation Section of the Secretariat of the Pacific Community. Handbooks for the identification of yellowfin and bigeye tunas in fresh, frozen and fresh but less than ideal condition – (versions available in English, French, Spanish, Bahasa Indonesia, Japanese, Korean, and Chinese). Pelagic Fisheries Research Program, Honolulu, Hawaii, USA.	
FT IP-5	Itano, D., J. McGregor and S. Arceneaux. Photographic identification guide for billfish, sharks, tuna-like, and non-tuna finfish taken in WCPO pelagic longline fisheries <<DRAFT>>. Pelagic Fisheries Research Program, Honolulu, Hawaii, USA.; NOAA Fisheries, Honolulu, Hawaii.	
FT IP-6	Delgado de Molina, A.1, J. Ariz, J.C. Santana and S. Déniz. Study of Alternative Models of Artificial Floating Objects for Tuna Fishery (Experimental Purse-seine Campaign in the Indian Ocean). originally submitted as IOTC–2006-WPBy - 05. Instituto Español de Oceanografía, Spain.	
FT IP-7	Matsumoto, T. ¹ , H. Okamoto ¹ and M. Toyonaga ² . Behavioral study of small bigeye, yellowfin and skipjack tunas associated with drifting FADs using ultrasonic coded transmitter in the central Pacific Ocean. ¹ National Research Institute of Far Seas Fisheries,	

	Shimizu, Japan. ² Marine Fisheries Research and Development Department, Center of Fisheries Research Agency, Yokohama, Japan.	
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BIOLOGY SPECIALIST WORKING GROUP

BI WP-1	Chi-Lu Sun, Su-ling Chu, Su-zan Yeh. Reproductive Biology of bigeye tuna in the western and central Pacific Ocean. Institute of Oceanography, National Taiwan University, Taipei, Taiwan.	
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STOCK ASSESSMENT SPECIALIST WORKING GROUP

SA WP-1	Hampton, J., Langley, A., Kleiber, P. Stock assessment of yellowfin tuna in the western and central Pacific Ocean, including an analysis of management options. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia. NOAA Fisheries, Honolulu, Hawaii.	
SA WP-2	Hampton, J., A. Langley, A., and P. Kleiber. Stock assessment of bigeye tuna in the western and central Pacific Ocean, including an analysis of management options. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia. NOAA Fisheries, Honolulu, Hawaii.	
SA WP-3	Langley, A.D. The South Pacific albacore fishery: a summary of the status of the stock and fishery management issues of relevance to Pacific Island countries and territories. Technical Report 37. Noumea, New Caledonia: Secretariat of the Pacific Community.	
SA WP-4	Langley, A., and J. Hampton. An update of the stock assessment for South Pacific albacore tuna, including an investigation of the sensitivity to key biological parameters included in the model. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
SA WP-5	Langley, A., and J. Hampton. Potential impact on catches of skipjack by the WCPO purse-seine fishery of various WCPFC conservation and management measures considered for bigeye and yellowfin. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
SA WP-6	Langley, A., B. Molony, D. Bromhead, K. Yokawa, and B Wise.. Stock assessment of striped marlin (<i>Tetrapturus</i>	

	<i>audax</i>) in the southwest Pacific Ocean. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia. 2Bureau of Resource Sciences, Canberra, Australia. Japan National Research Institute of Far Seas Fisheries, Shimizu, Japan.	
SA WP-7	Kolody, D., N. Davies, and R. Campbell. SW Pacific Swordfish Stock Status Summary from multiple assessment models. CSIRO. Division of Marine Research, Hobart, Australia. National Institute of Water and Atmospheric Research, Whangarei, New Zealand.	
SA IP-1	Hampton, J., and M. Maunder. An update of Pacific-wide assessment of bigeye tuna with comparisons with eastern Pacific assessment results. Document SAR-7-07c.ii. IATTC Working Group to Review Stock Assessments, 7th meeting, La Jolla, California (USA), 15-19 May 2006.	
SA IP-2	Sheng-ping Wang, Chi-lu Sun, N. Miyabe, Su-Zan Yeh, Nan-Jay Su, and Yi-Jay Chang. Stock assessment of BET in the western and central Pacific Ocean using an age-structured production model. Institute of Oceanography, National Taiwan University, Taipei, Taiwan.	

ECOSYSTEM AND BYCATCH SPECIALIST WORKING GROUP

EB WP-1	Kirby, D. S., Molony, B. An ecological risk assessment for species caught in WCPO longline and purse seine fisheries. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
EB WP-2	Kirby, D. S., Briand, K. Multivariate indicators for ecosystem regime shifts and links with long-term recruitment variability for target species. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
EB WP-3	Harley, S. J. Preliminary characterization of sea turtle catches in New Zealand fisheries waters. Ministry of Fisheries, Wellington, New Zealand.	
EB WP-4	Waugh, S. Additional information on the distribution of seabirds in the WCPF Convention area. Ministry of Fisheries, Wellington, New Zealand.	
EB WP-5	Bull, L.S. A review of methodologies aimed at avoiding and/or mitigating incidental catch of protected seabirds. Department of Conservation Research, Development, and Improvement Series. Department of Conservation, Wellington.	

EB WP-6 (MOVED TO NGO PAPER)	Small, C. Summary of seabird bycatch rates recorded in the Western and Central Pacific. Birdlife International Global Seabird Program.	
EB WP-7 (MOVED TO NGO PAPER)	BirdLife International. Distribution of albatrosses and petrels in the WCFPC Convention Area and overlap with WCPFC longline fishing effort. Birdlife International Global Seabird Program.	
EB WP-8 (WITHDR AWN)	ACAP (Warren Papworth). Seabird bycatch mitigation measures in pelagic longline fisheries: opportunities for WCPFC. Agreement on the Conservation of Albatrosses and Petrels.	
EB WP-9	Minani, H., K. Yokota & M. Kiyota. Japanese research activities to reduce incidental mortality of sea turtles in tuna longline fishery. National Research Institute Far Seas Fisheries, Shimizu, Japan.	
EB WP-10	H. Matsunaga & H. Shono. M. Analysis of longline CPUE of major pelagic shark species collected by Japanese research and training vessels in the Pacific Ocean. National Research Institute Far Seas Fisheries, Shimizu, Japan.	
EB WP-11 (WITHDR AWN)	Wilcox, C. Predicting non-target species catch rates for in the absence of observer data: a statistical approach for Flesh Footed Shearwaters in Australia's Eastern Tuna and Billfish Fishery. CSIRO, Pelagic Fisheries and Ecosystems.	
EB WP-12	Soon-Song Kim, Dae-Yeon Moon, Doo-Hae An and Jeong-Rack Koh. Comparison of circle hooks and J hooks in the catch rate of target and bycatch species taken in the Korean tuna longline fishery. National Fisheries Research and Development Institute. Republic of Korea.	
EB WP-13	Dalzell, P & E. Gilman. Turtle bycatch mitigation in the Hawaii longline fishery. Western Pacific Regional Fishery Management Council & Blue Ocean Institute.	
EB WP-14	Hobday, A. J., A. Smith, H. Webb, R. Daley, S. Wayte, C. Bulman, J. Dowdney, A. Williams, M. Sporcic, J. Dambacher, M. Fuller, T. Walker. Ecological risk assessment for the effects of fishing: methodology. CSIRO, Pelagic Fisheries and Ecosystems.	
EB WP-15	Yokota K & M. Kiyota. Preliminary report of side-setting experiments in a large sized longline vessel. National Research Institute Far Seas Fisheries, Shimizu, Japan.	

EB WP-16	Yokota K, M. Kiyota & H. Minami. Shark catch in a pelagic longline fishery: comparison of circle and conventional tuna hooks. National Research Institute Far Seas Fisheries, Shimizu, Japan.	
EB IP-1	Gilman, E., D. Kobayashi, T. Swenarton, P. Dalzell, I. Kinan, and N. Brothers. Analyses of observer data for the Hawaii-based longline swordfish fishery. Blue Ocean Institute, National Marine Fisheries Service (NMFS) Pacific Islands Fisheries Science Center, NMFS Pacific Islands Regional Office.	
EB IP-2	K. Yokota, H. Minami & M. Kiyota, Measurement-points examination of circle hooks for pelagic longline fishery to evaluate effects of hook design. National Research Institute Far Seas Fisheries, Shimizu, Japan.	
EB IP-3	Doo-Hae An, Soon-Song Kim, Dae-Yeon Moon, and Seon-Jae Hwang. A summary of the Korean tuna fishery observer program for the Pacific Ocean in 2005. National Fisheries Research and Development Institute, Republic of Korea.	
EB IP-4	Stobutzki, I. Bycatch mitigation approaches in Australia's Eastern Tuna and Billfish Fishery: seabirds, turtles, marine mammals, sharks and non-target fish. Bureau of Rural Sciences, Canberra, Australia.	
EB IP-5	Allain, V., Kirby, D.S. and Kerandel, J. A. Seamount Research Planning Workshop Report. 20-21 March 2006. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
EB IP-6	Allain, V., and B. Leroy. Ecosystem Monitoring and Analysis: stomach sampling overview of the GEF-SAP project 200-2005 and stomach sampling strategy of the GEF-OFM project 2005-2010. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.	
EB IP-7	IATTC. Review of Seabird Status and Incidental Catch in Eastern Pacific Ocean Fisheries. Inter-American Tropical Tuna Commission, La Jolla, USA.	
EB IP-8	IATTC. The Sea Turtle Bycatch Mitigation Program for the Coastal Longline Fleets and Preliminary Results of Circle Hook Experiments. Inter-American Tropical Tuna Commission, La Jolla, USA.	
EB IP-9	Watling, R. Interactions Between Seabirds and Pacific Islands' Fisheries, Particularly the Tuna Fisheries. Secretariat of the Pacific Community, Noumea, New Caledonia.	

EB IP-10	IATTC Interactions of fisheries in the eastern Pacific Ocean and marine turtles. Inter-American Tropical Tuna Commission, La Jolla, USA	
EB IP-11	J. Ariz, A. Delgado de Molina, M ^a L. Ramos and J. C. Santana. Check list and catch rate data by hook type and bait for bycatch species caught by Spanish experimental longline cruises in the south-western Indian Ocean during 2005. Instituto Español de Oceanografía, PO Box 1373, 38080 Santa Cruz de Tenerife, Spain.	

NGO OBSERVERS

	BirdLife International. Distribution of albatrosses and petrels in the WCFPC Convention Area and overlap with WCPFC longline fishing effort. Birdlife International Global Seabird Program. (Two files: main paper and appendix)	
	Small, C. Summary of seabird bycatch rates recorded in the Western and Central Pacific. Birdlife International Global Seabird Program.	