



**THE SCIENTIFIC COMMITTEE OF THE COMMISSION FOR THE CONSERVATION AND
MANAGEMENT OF HIGHLY MIGRATORY FISH STOCKS IN THE WESTERN AND CENTRAL
PACIFIC OCEAN**

WCPFC-SC-2005/03

**LIST OF
SCIENTIFIC COMMITTEE PAPERS**

**First Meeting of the
SCIENTIFIC COMMITTEE
OF THE
WESTERN AND CENTRAL PACIFIC FISHERIES COMMISSION**

WCPFC-SC1

**Noumea, New Caledonia
8-19 August 2005**

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General

- GN WP-1** Williams, P. & C. Reid. **Overview of the western and central Pacific Ocean (WCPO) tuna fisheries, including economic conditions – 2004.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia and Forum Fisheries Agency. Honiara, Solomon Islands.
- GN IP-1** Anonymous. **Report of the Seventeenth Meeting of the Standing Committee on Tuna and Billfish (SCTB17), 9–18 August 2004, Majuro, Marshall Islands.** Secretariat of the Pacific Community (SPC).
- GN IP-2** Harley, S., and Smith, N. **Summary of New Zealand research into tunas and tuna-related species.** Ministry of Fisheries, New Zealand.
- GN IP-3** Stocker, M. (editor). **Report of the Nineteenth North Pacific Albacore Workshop.** Fisheries and Oceans. Canada.
- GN IP-4** Anonymous. **Report of the Plenary Session of the Fifth Meeting of the Interim Scientific Committee for Tuna and Tuna-like Species in the North Pacific.** Tokyo, Japan March 28-30, 2005.
- GN IP-5** Gilbert, A. & J-P Gaudechoux. **Pacific Islands Marine Resources Bibliography. (A list of bibliographic references held at the SPC-Noumea Library).** Secretariat of the Pacific Community (SPC).
- GN IP-6** **Project on the Management of Tuna Fishing Capacity: Conservation and Socio-economics : Proposal – Methodological Workshop on the management of tuna fishing capacity on the basis of stock status, data envelopment analysis and industry survey.** Food and Agriculture Organization of the United Nations (FAO). Rome, Italy.
- GN IP-7** **Proceedings of the Second Meeting of the Technical Advisory Committee of the FAO Project "Management of tuna fishing capacity: conservation and socio-economics".** In press. Madrid (Spain), 15-18 March 2004. FAO Fisheries Proceedings No. 2. Eds: W. H. Bayliff, J. I. de Leiva Moreno & J. Majkowski. Rome. 336 pp.
- GN IP-8** **Greenpeace Position Paper on the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific.** Greenpeace Australia-Pacific. Fiji.

Statistics Specialist Working Group

- ST WP-1** Lawson, T. **Status of data collection, compilation and dissemination.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ST WP-2** Lawson, T. **Data-related tasks for the WCPFC Scientific Committee.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ST WP-3** Lawson, T. **Update on the proportion of bigeye in ‘yellowfin plus bigeye’ caught by purse seiners in the Western and Central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
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- ST WP-4** Lawson, T. & P. Williams. **Comparison of the species composition of catches by purse seiners in the Western and Central Pacific Ocean determined from observer and other types of data.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ST IP-1** Lawson, T. & P. Williams. **Estimates of annual catches in the WCPFC Convention Area.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ST IP-2** Williams, P. & T. Lawson. **A summary of aggregate catch/effort and size composition data available to the WCPFC Scientific Committee, highlighting the main data gaps.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ST IP-3** Moon, Dae-Yeon. **A summary of Korean tuna fishery observer program for the Pacific Ocean (2004-2005).** National Fisheries Research and Development Institute, Busan, Korea.
- ST IP-4** Anon. **Report of the Philippines Tuna Fishery Data Collection Workshop, 20-21 October 2004, Quezon City, Metro Manila, Philippines.** Prepared for the Preparatory Conference for the Commission for the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific by the Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia, November 2004.
- ST IP-5** Lewis, A.D. **The tuna fisheries of Vietnam - an overview of available information.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia, April 2005.
- ST IP-6** Lewis, A.D. **Review of Tuna Fisheries and the Tuna Fishery Statistical System in the Philippines.** Prepared for the Preparatory Conference for the Commission for the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific, with funding from the Australian Centre for International Agricultural Research, by the Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia, November, 2004.

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- ME WP-1** Lehodey P. **First application of SEAPODYM to Pacific bigeye tuna.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ME WP-2** Senina, I.N., Sibert, J.R. and P. Lehodey. **Seapodym on a mixed-resolution spatial scale.** Pelagic Fisheries Research Programme, Honolulu, Hawaii. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ME WP-3** Ahrens, R. & C. Walters. **Why are there still large pelagic predators in the oceans?: evidence of severe hyper-depletion in longline catch-per-effort.** Fisheries Center, University of British Columbia (BC), Vancouver, B.C. Canada.
- ME IP-1** Lehodey P. **Reference manual for the Spatial Ecosystem and Populations Dynamics Model SEAPODYM.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ME IP-2** (WITHDRAWN)
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- ME IP-3** Wang, C-H & S-B Wang. **Theoretical development of Schaefer model and its application.** Institute of Oceanography, National Taiwan University, Taipei, Chinese-Taipei.

Fishing Technology Specialist Working Group

- FT WP-1** Campbell, R. **Measuring effective longline effort in the Australian Eastern Tuna and Billfish Fishery.** CSIRO. Division of Marine Research, Hobart, Australia.
- FT WP-2** Alicia Delgado de Molina , Javier Ariz, Pilar Pallarés, Rosa Delgado de Molina and Santiago Déniz. **Project on new FAD designs to avoid entanglement of by-catch species, mainly sea turtles and acoustic selectivity in the Spanish purse seine fishery in the Indian Ocean.** Instituto Español de Oceanografía, Spain. IPD, Spain. Spanish Oceanographic Institute, Spain.
- FT WP-3** Itano, D. **The transition and evolution of the Fishing Technology Working Group of the SCTB into the structure of the WCPFC Scientific Committee.** Pelagic Fisheries Research Programme, Honolulu, Hawaii.
- FT WP-4** Itano, D. **A summarization and discussion of technical options to mitigate the take of juvenile bigeye and yellowfin tuna and associated bycatch species found in association with floating objects.** Pelagic Fisheries Research Programme, Honolulu, Hawaii.
- FT IP-1** Fukufuka, S. & D. Itano. **Handbook for the identification of yellowfin and bigeye tunas in fresh, but less than ideal condition.** Pelagic Fisheries Research Programme, Honolulu, Hawaii. Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- FT IP-2** Merta, G., Andamari, R., D. Itano, and C. Proctor. **Training guides for the identification of yellowfin and bigeye tunas to assist Indonesian port sampling and observer programs.** Research Institute of Marine Fisheries, Jakarta Indonesia. Research Institute for Mariculture, Gondol, Indonesia. Pelagic Fisheries Research Programme, Honolulu, Hawaii. CSIRO Division of Marine and Atmospheric Research, Hobart, Australia.
- FT IP-3** Chavance, P. **Depth, temperature, and capture time of longline targeted fish in New Caledonia: results of a one year study.** ADECAL - ZoNéCo Programme. New Caledonia.
- FT IP-4** Beverly, S. **Notes on a longline trip in the New Caledonia EEZ using TDRs in combination with remote sensing data (SSH and SST).** Coastal Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- FT IP-5** Joseph, J. **Past developments and future options for managing tuna fishing capacity, with special emphasis on tuna purse seine fleets.** In Proceedings of the Second Meeting of the Technical Advisory Committee of the FAO Project "Management of tuna fishing capacity: conservation and socio-economics". In press. Madrid (Spain), 15-18 March 2004. FAO Fisheries Proceedings No. 2. Eds: W. H. Bayliff, J. I. de Leiva Moreno & J. Majkowski. Rome. Section 4: 281 - 323

Biology Specialist Working Group

- BI WP-1** Sun, Chi-lu, Wei-Ren Wang and Suzan Yeh. **Reproductive biology of yellowfin tuna in the central and western Pacific Ocean.** Institute of Oceanography, National Taiwan University, Chinese-Taipei.
- BI WP-2** Allain, V. **Diet of large pelagic predators of the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
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- BI WP-3** Allain, G. **The influence of the environment on horizontal and vertical bigeye tuna movements investigated by analysis of archival tag records and ecosystem model outputs.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- BI WP-4** Itano, D.G., Dagorn, L., & K.N. Holland. **The use of FADs to monitor the behaviour and movements of tuna, billfish and pelagic sharks.** Pelagic Fisheries Research Programme, Honolulu, Hawaii.
- BI WP-5** Matsumoto, T., N. Miyabe, H. Okamoto, M., Toyonaga and T. Oshimatano. **Behavioural study of small bigeye and yellowfin tunas aggregated with floating object using ultrasonic coded transmitter.** National Research Institute of Far Seas Fisheries. Shimizu, Japan.
- BI WP-6** Clear, N.P., K. Evans, J. S. Gunn, J. Hampton, S. Bestley, K. Hartmann, T. Patterson & J. Sibert **Movement of bigeye tuna (*Thunnus obesus*) determined from archival tag light-levels and sea surface temperatures.** Division of Marine Research, CSIRO, Hobart, Tasmania, Australia. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia. Joint Institute of Marine and Atmospheric Research, University of Hawai'i at Manoa, Honolulu, Hawai'i, USA.
- BI WP-7** Evans, K., N. P. Clear, T. Patterson, J. S. Gunn & J. Hampton. **Behaviour and habitat preferences of bigeye tuna (*Thunnus obesus*) tagged in the western Coral Sea.** Division of Marine Research, CSIRO, Hobart, Tasmania, Australia. Oceanic Fisheries Program, Secretariat of the Pacific Community, Noumea, New Caledonia.
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- SA WP-1** Hampton, J., P. Kleiber, A. Langley, Y. Takeuchi & M. Ichinokawa. **Stock assessment of yellowfin tuna in the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia. NOAA Fisheries, Honolulu, Hawaii. National Research Institute of Far Seas Fisheries. Shimizu, Japan.
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- SA WP-3** Langley, A. & J. Hampton. **Stock assessment of albacore tuna in the south Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
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- SA WP-6** Campbell, R. **Annual indices of swordfish availability in the south-west Pacific.** CSIRO. Division of Marine Research, Hobart, Australia.
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- SA WP-9** (WITHDRAWN)
- SA WP-10** Hampton, J., A. Langley, S. Harley, P. Kleiber, Y. Takeuchi & M. Ichinokawa. **Estimates of sustainable catch and effort levels for target species and the impacts on stocks of potential management measures.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia. Ministry of Fisheries, New Zealand. NOAA Fisheries, Honolulu, Hawaii. National Research Institute of Far Seas Fisheries. Shimizu, Japan.
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- EB WP-1** Molony, B. **Estimates of the mortality of non-target species with an initial focus on seabirds, turtles and sharks.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- EB WP-2** Molony, B. **Summary of the biology, ecology and stock status of billfishes in the WCPFC, with a review of major variables influencing longline fishery performance.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- EB WP-3** Ward, P., R. Myers & W. Blanchard. **A Fish lost at sea: the effect of soak time on pelagic longline catches.** Department of Biology, Department of Mathematics and Statistics, Dalhousie University. Halifax, Canada.
- EB WP-4** Kirby, D. **Prey consumption estimates for tunas in the WCPO.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- EB WP-5** Kirby, D., V. Allain & B. Molony. **Potential ecosystem indicators for the WCPO.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
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- EB WP-6** Sibert, J. **Ecosystem Boundaries and Indicators: Getting started with the ecosystem approach.** Pelagic Fisheries Research Program. JIMAR. University of Hawaii. USA.
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- EB WP-8** Lehodey, P. **Application of SEAPODYM to the Pacific Pelagic Ecosystem. Recent results and perspectives.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- EB WP-9** Bromhead, D. & B. Wise **Byproduct: catch, economics and co-occurrence in the Australia's Eastern Tuna and Billfish longline fishery.** Fisheries and Marine Sciences. Bureau of Rural Sciences. Dept. of Agriculture, Fisheries & Forestry. Australia.
- EB WP-10** Allain, V. **Ecopath model of the pelagic ecosystem of the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- EB WP-11** Matsunaga, H., H. Shono, M. Kiyota & Z. Suzuki. **Long-term changes in CPUE of sharks and size of blue sharks caught by tuna longlines in the western North Pacific Ocean.** National Research Institute of Far Seas Fisheries. Shimizu, Japan.
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