

## LIST OF WORKING PAPERS

SCTB16 – Mooloolaba, Queensland, Australia. 9–16 July 2003

### Information Reports

- Anonymous. **Report of the Fifteenth Meeting of the Standing Committee on Tuna and Billfish (SCTB15), 22–27 July 2002, Honolulu, Hawaii.** Pelagic Fisheries Research Programme, Joint Institute for Marine and Atmospheric Research, University of Hawaii. 143 pp.
- INFO–1 Sibert, J. **Pelagic Fisheries Research Program – Program Overview and Current Research.** Pelagic Fisheries Research Program. Joint Institute of Marine and Atmospheric Research. University of Hawaii
- INFO–2 IATTC. **Status of Stocks of tuna and billfish in the Eastern Pacific Ocean.** Inter-American Tropical Tuna Commission (IATTC). La Jolla. USA.
- INFO–3 IATTC. **Draft Resolution on Data Provision (RESOLUTION C-03-05).** Inter-American Tropical Tuna Commission (IATTC). La Jolla. USA.
- INFO–4 **Background Papers for Discussion on Fishing Capacity in the WCPO**

### Overview of Western and Central Pacific Ocean Tuna Fisheries

- GEN–1 Williams, P. **Overview of the western and central Pacific Ocean tuna fisheries – 2002.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- GEN–2 Forum Fisheries Agency. **Economic overview of the tuna fishery.** Forum Fisheries Agency. Honiara. Solomon Islands.

### Statistics Working Group

- SWG–1 Lawson, T. **Status of data collection, compilation and dissemination.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SWG–2 Lawson, T. **Estimates of annual catches of albacore, bigeye, skipjack and yellowfin tuna in the Western and Central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SWG–3 Williams, P. **Estimates of annual catches for billfish species taken in commercial fisheries of the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SWG–4 Lawson, T. **Observer coverage rates and the accuracy and reliability of estimates of CPUE for offshore longline fleets targeting South Pacific albacore.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SWG–5 Lawson, T. & A. Coan. **Review of Korean catch and effort logsheets.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SWG–6 Lawson, T. **Analysis of the proportion of bigeye in ‘yellowfin plus bigeye’ caught by purse seiners in the Western and Central Pacific Ocean, based on observer data.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
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- SWG-7** Bravington, M. C. Burrige & P. Toscas. **Design of observer program to monitor bycatch species in the Eastern Tuna and Billfish Fishery.** CSIRO, Hobart, Australia.
- SWG-8** Wetherall, J. **Observer coverage in the Hawaii-based longline fishery: A Case Study.** Pacific Islands Fisheries Science Center. US National Marine Fisheries Service.

### Methods Working Group

- MWG-1** Labelle, M. **Testing the accuracy of MULTIFAN-CL assessments using an operational model of yellowfin tuna (*Thunnus albacares*) fisheries in the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia
- MWG-2** Maunder, M. and S. J. Harley. **Methodological improvements to the EPO tuna stock assessments.** Inter-American Tropical Tuna Commission (IATTC). La Jolla. USA.
- MWG-3** Harley, S. and M. Maunder. **Recommended diagnostics for large statistical stock assessment models.** Inter-American Tropical Tuna Commission (IATTC). La Jolla. USA.
- MWG-4** Wang, C-H. **Theoretical consideration of estimating the varied carrying capacities.** Institute of Oceanography, National Taiwan University, Taipei, Taiwan, ROC.
- MWG-5** Kolody, D. and D. Ricard. **Application of SCALIA and Production Models (Fox, Schaefer, and Age-Structured) to the SCTB MWG 2003 Simulated Tuna Fishery.** CSIRO. Division of Marine Research, Hobart, Australia.
- MWG-6** Campbell, R. **An Approach for Estimating Equilibrium Yields within Regions of the Pacific Ocean.** CSIRO. Division of Marine Research, Hobart, Australia.
- MWG-7** Hinton, M. and M. Maunder. **Methods of standardising CPUE and how to select among them.** Inter-American Tropical Tuna Commission (IATTC). La Jolla. USA.

### Fishing Technology Working Group

- FTWG-1** Itano, D. G. and A.L. Coan Jr. **An assessment of the accuracy of yellowfin and bigeye tuna species identification: by American Samoa port samplers.**
- FTWG-2** Coan Jr., A. L. and D.G. Itano **Updates (2003) of factors that may have affected U.S. purse seine catch rates in the central-western Pacific Ocean: an examination of fishing strategy and effective fishing effort.**
- FTWG-3** Itano, D. G. **Documentation and classification of fishing gear and technology on board tuna purse seine vessels.**
- FTWG-4** Kumoru, L. **Notes on the use of FADs in the PNG purse seine fishery.**
- FTWG-5** Coan Jr., A. L. & P.Crone. **Fishery-related attributes associated with FAD and log fishing practices conducted by the U.S. purse seine fleet in the central-western Pacific Ocean, 1997-2002.**
- FTWG-6** Joseph, J. **Managing fishing capacity of the world tuna fleet [Executive Summary of FAO Fisheries Circular. No. 982]**
- FTWG-7** Nelson, P. **Reducing the take of undersize tuna and bycatch in drifting FAD sets: project description.**
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- FTWG-8** Moron Ayala, J. **Review of activities of the World Tuna Purse-seine Organisation (June 2002–June 2003).**
- FTWG-9** Beverly, S. **Proposal for a deep setting technique for longline fishing to enhance target CPUE and to avoid certain bycatch species.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia

### **Species Research Groups**

#### **General**

- RG-1** Anonymous. **Notes on sources, quality and coverage of aggregate catch/effort and size composition data available to the SCTB.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- RG-2** Langley, A. **Standardised analysis of yellowfin and bigeye cpue data from the Japanese longline fleet, 1952 to 2001.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- RG-3** Bigelow, K., M. Maunder, M. Hinton. **Comparison of deterministic and statistical habitat-based models to estimate effective longline effort and standardized cpue for bigeye and yellowfin tuna.** US National Marine Fisheries Service. Honolulu, Hawaii. Inter-American Tropical Tuna Commission (IATTC). La Jolla. USA.
- RG-4** Matsumoto, T., M. Okuhara, I. Ohta, M. Mizoguchi and N. Miyabe. **Report of the ongoing tagging project on tropical tunas around.** National Research Institute of Far Seas Fisheries, Shimizu. Kagoshima Prefecture Fisheries Experiment Station, Kagoshima. Okinawa Prefectural Fisheries Experimental Station, Okinawa. Japan NUS Co., Ltd., Tokyo. Japan.

#### **Skipjack**

- SKJ-1** Langley, A. Ogura M. & Hampton, J. **Stock assessment of skipjack tuna in the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SKJ-2** Williams, P. **Overview of skipjack fisheries in the western and central Pacific Ocean – 2002.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SKJ-3** Anonymous. **A summary of aggregate catch/effort and size composition data available to the SCTB – SKIPJACK.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SKJ-4** Kirby, D. G. Huse, P. Lehodey, P. Hart. **An individual-based model for the spatial population dynamics of Pacific skipjack tuna *Katsuwonus pelamis* (SKIP-I).** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SKJ-5** Lehodey, P. **SEPODYM application to skipjack tuna (*Katsuwonus pelamis*) in the Pacific Ocean: impact of ENSO on recruitment and population.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- SKJ-6** Fonteneau, A. **A comparative overview of skipjack fisheries and stocks worldwide.** IRD, Seychelles.
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- SKJ-7** Ogura, M. **Swimming behavior of skipjack, *Katsuwonus pelamis*, observed by the Data Storage Tag at the NorthWestern Pacific, off northern Japan, in summer of 2001 and 2002.** National Research Institute of Far Seas Fisheries. Japan.
- SKJ-8** Tanabe, T., S. Kayama, and M. Ogura. **Precise age determination of young to adult skipjack tuna (*Katsuwonus pelamis*) with validation of otolith daily increment.** National Research Institute of Far Seas Fisheries. Japan.
- SKJ-9** Tanabe, T., S. Kayama, M. Ogura and S. Tanaka. **Daily increment formation in otoliths of juvenile skipjack tuna *Katsuwonus pelamis*.** National Research Institute of Far Seas Fisheries. Japan.
- SKJ-10** Chi-Lu Sun, Su-Zan Yeh, Shui-Kai Chang, and Ren-Fen Wu. **Biological data collection and study on skipjack tuna caught by Taiwanese tuna purse seine fishery –2002.** Institute of Oceanography, National Taiwan University, Taipei, Taiwan; Fisheries Administration, Council of Agriculture, R.O.C. Overseas Fisheries Development Council of the Republic of China.

### Yellowfin

- YFT-1** Hampton, J. & Kleiber, P. **Stock assessment of yellowfin tuna in the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- YFT-2** Williams, P. **Overview of yellowfin fisheries in the western and central Pacific Ocean – 2002.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- YFT-3** Anonymous. **A summary of aggregate catch/effort and size composition data available to the SCTB – SKIPJACK.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- YFT-4** Lehodey, P. **First application of SEPODYM to yellowfin tuna population and fisheries in the Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- YFT-5** Sun, C-L., Nan-Jay Su, and Su-Zan Yeh. **Estimation of Growth Parameters and Age Composition for Yellowfin Tuna, *Thunnus albacares*, in the Western Pacific.** Institute of Oceanography, National Taiwan University, Taipei, Taiwan.
- YFT-6** Williams, D. **Data derived from the gamefish fishery and its utility in assessing the size composition and movement of yellowfin tuna in eastern Australian waters.** NSW Fisheries. Australia.
- YFT-7** Holland, K., D. Grubbs, B. Graham, D. Itano and L. Dagorn **The biology of FAD-associated tuna: Temporal dynamics of associated and feeding ecology.** Pelagic Fisheries Research Program. JIMAR. Honolulu. Institute for Research and Development (IRD), France.

### Bigeye

- BET-1** Hampton, J. & Kleiber, P. & Maunder & Takeuchi & Sun. **Stock assessment of bigeye tuna in the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- BET-2** Williams, P. **Overview of bigeye fisheries in the western and central Pacific Ocean – 2002.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
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- BET-3** Anonymous. **A summary of aggregate catch/effort and size composition data available to the SCTB – BIGEYE.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- BET-4** Kirby, D. P. Lehodey, B. Leroy. **Bigeye tuna individual-based model (BET-I).** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.

### **Albacore**

- ALB-1** Labelle, M. & Hampton, J. **Stock assessment of albacore tuna in the western and central Pacific Ocean.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ALB-2** Williams, P. **Overview of albacore fisheries in the south Pacific Ocean – 2002.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ALB-3** Anonymous. **A summary of aggregate catch/effort and size composition data available to the SCTB – ALBACORE.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ALB-4** Langley, A. **Standardised analysis of albacore CPUE data from the Taiwanese longline fleet, 1967 to 2000.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ALB-5** Langley, A. **Summary of recent trends in the South Pacific Albacore Fishery.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ALB-6** Williams, P. **Preliminary review of information available on the fishing depth of longline vessels targeting albacore.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- ALB-7** Wang, C-H. **Comparing the results estimated by four different methods applying in assessing South Pacific albacore stocks.** Institute of Oceanography, National Taiwan University, Taipei, Taiwan, ROC.
- ALB-8** Griggs, L. **Measuring the length structure of commercial landings of albacore tuna during the 2002–2003 fishing year.** NIWA, Wellington. New Zealand.
- ALB-9** Lehodey, P. **SEPODYM application to albacore tuna (Thunnus alalunga) in the Pacific Ocean: impact of ENSO on recruitment and population.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.

### **Billfish and Bycatch**

- BBRG-1** Kirby, D., P Lehodey, J. Polovina. **Loggerhead turtle Caretta caretta individual-based model (CAR-I).** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- BBRG-2** Kumoru, L. **The Shark Longline Fishery in Papua New Guinea.** Papua New Guinea National Fisheries Authority, Port Moresby, Papua New Guinea.
- BBRG-3** Campbell, R. and A. Hobday. **Swordfish-environment-seamount-fishery interactions off eastern Australia.** CSIRO. Division of Marine Research, Hobart, Australia.
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- BBRG-4** Campbell, R. and N. Dowling. **A management strategy evaluation approach for broadbill swordfish, *Xiphias gladius*, in the south-west Pacific Ocean.** CSIRO. Division of Marine Research, Hobart, Australia.
- BBRG-5** Godinot, O. & V. Allain. **A preliminary Ecopath model of the warm pool pelagic ecosystem.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- BBRG-6** V. Allain. **Diet of mahi-mahi, wahoo and lancetfish in the western and central Pacific.** Oceanic Fisheries Programme, Secretariat of the Pacific Community, Noumea, New Caledonia.
- BBRG-7** Holdsworth, J. & P. Saul. **New Zealand Billfish and Gamefish Tagging, 2001–2002.** Blue Water Marine Research Ltd. Whangarei. New Zealand.
- BBRG-8** Young, J. and A. Drake. **Age and growth of broadbill swordfish (*Xiphias gladius*) from eastern Australian.** CSIRO Marine Laboratories. Division of Marine Research, Hobart, Australia.
- BBRG-9** Murray, T. & L. Griggs. **Factors affecting swordfish (*Xiphias gladius*) catch rate in the New Zealand tuna longline fishery.** NIWA, Wellington. New Zealand
- BBRG-10** Kiyota, M. H. Nakano, H. Matsunaga & H. Minami. **Research activities and fishery management for the solution of incidental catch of sharks, seabirds and sea turtles in Japanese tuna longline.** National Research Institute of Far Seas Fisheries. Japan.
- BBRG-11** Sun, C-L., A. Punt, S-P. Wang, S-Z. Yeh, K. Yokawa, and P. Kleiber **A Framework for Assessing the North Pacific Stock of Swordfish using an Age- and Sex-Structured Population Dynamics Model.** Institute of Oceanography, National Taiwan University, Taipei, Taiwan. School of Aquatic and Fisheries Sciences, University of Washington, Seattle, USA. National Research Institute of Far Seas Fisheries, Shimizu, Japan. National Marine Fisheries Service (NMFS). Pacific Islands Fisheries Science Center, Honolulu, Hawaii
- BBRG-12** Matsunaga, H., H. Nakano, H. Okamoto and Z. Suzuki. **Whale Shark Migration Observed by Pelagic Tuna Fishery Near Japan.** National Research Institute of Far Seas Fisheries. Japan.
- BBRG-13** Yokawa, K., H. Saito and H. Shono. **Preliminary Result of Vertical Distribution Pattern between Atlantic Blue Marlin and its CPUE.** National Research Institute of Far Seas Fisheries. Japan.
- BBRG-14** Bromhead, D., J. Pepperell and J. Findlay. **Striped Marlin: An analysis of fishery interactions of the southeast coast of Australia.** Bureau of Rural Sciences.
- BBRG-15** Whitelaw, W. **Observed and logbook longline catch data off Eastern Australia south of 30S.** Australian Fisheries Management Authority (AFMA).

### National Tuna Fishery Reports

- NFR-1** AMERICAN SAMOA <did not attend - not provided>
- NFR-2** AUSTRALIA  
Bromhead, D. and J. Findlay. **Tuna and billfish fisheries of the eastern Australian fishing zone and adjacent high seas.** Bureau of Rural Sciences. Agriculture, Fisheries and Forestry – Australia. ACT, Australia.
- NFR-3** CANADA  
Stocker, M. & W. Shaw. **An update for Canadian tuna fisheries in the north and south Pacific Ocean for 2002.** Fisheries and Oceans Canada. Canada.
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- NFR-4 CHINA**  
XU Liuxiong. **National Tuna Fisheries Report of China in the WCPO**. Shanghai Fisheries University. Peoples Republic of China.
- NFR-5 COOK ISLANDS**  
Mitchell, J. **National Tuna Fisheries Report 2002-2003 – Cook Islands**. Ministry of Marine Resources. Cook Islands
- NFR-6 FSM**  
Park, T. **National Tuna Fisheries Report for FSM**. NORMA. FSM
- NFR-7 FIJI**  
Amoe, J. **Fiji tuna and billfish fisheries**. Fisheries Department, Ministry of Fisheries and Forests. Fiji.
- NFR-8 FRENCH POLYNESIA**  
Misselis, C. **Tuna fisheries in French Polynesia in 2002**. Fisheries Department (Service de la Pêche) Tahiti, French Polynesia.
- NFR-9 GUAM** *<did not attend – not provided>*
- NFR-10 INDONESIA**  
Merta, G. **The status of tuna research in eastern part of Indonesia waters**. Research Institute of Marine Fisheries. Indonesia.
- NFR-11 JAPAN**  
Miyabe, N., M. Ogura, T. Matsumoto and Y. Nishikawa. **National tuna fisheries report of Japan as of 2003**. National Research Institute of Far Seas Fisheries, Shimizu, Japan.
- NFR-12 KIRIBATI**  
Kirata, J. **Kiribati National Fisheries Report 2002**. Fisheries Department. Ministry of Natural Resources Development.
- NFR-13 KOREA**  
Koh, J-r, D-y Moon and D-h An. **National Tuna Fisheries Report in 2003**. National Fisheries Research and Development Institute, Busan, Korea
- NFR-14 MARSHALL ISLANDS**  
Joseph, G. **National tuna fisheries report for the Marshall Islands**. Marshall Islands Maritime Authority. Marshall Islands.
- NFR-15 NAURU** *<did not attend - not provided>*
- NFR-16 NEW CALEDONIA**  
Etaix-Bonnin, R. **New Caledonia tuna and billfish fisheries**. Service territorial de la marine marchande. Noumea, New Caledonia.
- NFR-17 NEW ZEALAND**  
Murray, T. & N. Smith. **New Zealand Domestic Tuna Fisheries in 2001**. NIWA and Ministry of Fisheries, Wellington.
- NFR-18 NIUE**  
Pasisi, P. **National tuna fisheries report for Niue**. Niue Fisheries Division. DAFF.
- NFR-19 NORTHERN MARIANAS** *<did not attend - not provided>*
- NFR-20 PALAU**  
Sisior, K. **Tuna fisheries in the waters of the Republic of Palau**. Bureau of Oceanic Fisheries Management. Palau
- NFR-21 PAPUA NEW GUINEA**
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Kumoru, L. and A. D. Lewis. **National fisheries report – Papua New Guinea.** Papua New Guinea National Fisheries Authority, Port Moresby, Papua New Guinea.

**NFR-22 PHILIPPINES**

Barut, N. **National tuna fisheries report for the Philippines.** National Fisheries Research Institute. Philippines.

**NFR-23 SAMOA** *<did not attend - not provided>*

**NFR-24 SOLOMON ISLANDS** *< did not attend - not provided >*

**NFR-25 TAIWAN**

**National Report – Update on Tuna Fisheries of Taiwan in the Pacific Region.** Overseas Fisheries Development Council. Fisheries Agency, Council of Agriculture, Taiwan.

**NFR-26 TOKELAU** *<did not attend - not provided>*

**NFR-27 TONGA**

**Tonga National fisheries report.** Fisheries Division. Ministry of Fisheries. Tonga..

**NFR-28 TUVALU** *<did not attend - not provided>*

**NFR-29 USA**

Ito, R., D. Hamm, A. Coan Jr. and J. Childers. **Summary of U.S. fisheries for highly migratory species caught in the central-western Pacific, 1998-2002.** National Marine Fisheries Service. Pacific Islands Fisheries Science Center. Hawaii. La Jolla.

**NFR-30 VANUATU**

Naviti, W. **National Tuna Fisheries Report for Vanuatu.** Fisheries Division. Vanuatu.

**NFR-31 VIETNAM** *<not provided>*

**NFR-32 WALLIS & FUTUNA** *<did not attend – not provided>*