



**STATISTICS SPECIALIST WORKING GROUP
SCIENTIFIC COMMITTEE
FOURTH REGULAR SESSION
11-22 August 2008
Port Moresby, Papua New Guinea**

**DRAFT MINIMUM DATA FIELDS
AS REVISED AND PROPOSED BY THE
SECOND INTER-SESSIONAL WORKING GROUP
REGIONAL OBSERVER PROGRAMME
7-10 July 2008**

**WCPFC/SC4/ST-SWG/2008/IP-5 Rev. 1
28th July 2008**

Previous consideration by the Scientific Committee

1. The two previous annual sessions of the Scientific Committee (SC) and the Statistics Specialist Working Group (ST-SWG) have considered scientific objectives, priorities and data fields for the Regional Observer Programme¹.
2. The Third Regular Session of the Scientific Committee, 13-24 August 2007 at Honolulu, USA recommended the text contained in Appendix III of Attachment K of the SC3 Summary Report be used as the starting point for future discussions on the minimum fields of scientific data to be collected by the ROP.
3. The SC noted that:
 - a) The list of data fields contained in Appendix III of Attachment K is provisional and requires more consideration and refinement (by other

¹ See Lawson, T. 2006. Scientific aspects of observer programmes for tuna fisheries in the Western and Central Pacific Ocean. ST-SWG-1. Second Regular Session of the Scientific Committee, Manila, Philippines, 7-18 August 2006. Lawson, T. 2006. Observer coverage rates and reliability of CPUE estimates for purse seiners in the Western and Central Pacific Ocean. ST-IP-3. Second Regular Session of the Scientific Committee, Manila, Philippines, 7-18 August 2006. SPC. 2007. Objectives and priorities for data to be collected by observers for fisheries other than purse seine and longline. Third Regular Session of the Scientific Committee, Honolulu, USA. 13-24 August 2007. Duckworth, K. 2007. Convener's proposed text for the ST-SWG recommendation on the scientific objectives and priorities of the ROP. ST-IP-8. Third Regular Session of the Scientific Committee, Honolulu, USA. 13-24 August 2007. Secretariat. 2007. WCPFC data standards for the regional observer programme. GN-WP-6. Third Regular Session of the Scientific Committee, Honolulu, USA. 13-24 August 2007. Chinese Taipei, Japan and Korea. 2007. Minimum standards for ROP data. DP-4. Third Regular Session of the Scientific Committee, Honolulu, USA. 13-24 August 2007.

subsidiary bodies of the Commission and subsequent sessions of the ST-SWG);

- b) Many delegations expressed a strong desire for further opportunities to add items to, or subtract items from, this list;
 - c) The SC only considered scientific needs for the fields of data to be collected by the ROP;
 - d) At the ST-SWG, a consensus agreement was reached on slightly over 100 fields of data (those not square bracketed in Appendix III) that should be collected by the ROP, but consensus was not reached with regard to other fields; and
 - e) In some instances the discussion of data fields was made more complicated by the lack of shared understanding regarding the meaning and purpose of each proposed field.
4. SC3 further recommended:
- a) The draft list of minimum data fields for the ROP (contained in Appendix III of Attachment K) be annotated with explanations of what each field is and why it is needed;
 - b) The draft list of minimum data fields for the ROP be annotated with detail describing the format (units of measure, codes etc) to be used when collecting each field (completing the work that was started in SC3-GN-WP-6).

The Intersessional Working Group for the Regional Observer Programme

5. An annotated version of Appendix III of Attachment K of the SC3 Summary Report was made available to the first meeting of the Inter-sessional Working Group for the Regional Observer programme (IWG-ROP1) at Pohnpei, FSM 24-26 September 2007 (WCPFC-IWG-ROP-2007/10). There was insufficient time during that meeting to further consider this issue and further discussion was deferred to a subsequent meeting of the IWG. Two additional data fields, not considered by the SC and which were forwarded to TCC by the SC for their consideration, were the Vessel Sightings and the Observer Trip Monitoring Summary .

6. The second meeting of the IWG, at Nadi, Fiji 7-10 July 2008, did review the data fields as presented in WCPFC-IWG-ROP-2007/10. The outcome of that discussion is appended at Attachment A for the information and possible further consideration by the ST-SWG.



**Second Interessional Working Group
Regional Observer Programme
Nadi, Fiji
7-10th July 2008**

**DRAFT MINIMUM DATA FIELDS
WCPFC REGIONAL OBSERVER PROGRAMME
AS REVISED BY IWG-ROP2
Attachment H of the IWG-ROP2 Summary Report**

Adapted from WCPFC/ IWG-ROP2-2008/11 Rev 1
8th July 2008

Table 1. General Vessel and trip information for all vessel types

| VESSEL IDENTIFICATION | |
|---|---|
| Name of vessel | Agreed & recommended by SC3 |
| Vessel flag | Agreed & recommended by SC3 |
| Flag State Registration Number | Agreed & recommended by SC3 |
| International Radio Call Sign | Agreed & recommended by SC3 |
| Vessel Owner/Company | Agreed & recommended by IWG ROP2 |
| TRIP INFORMATION | |
| Date and time of departure from port | Agreed & recommended by SC3 |
| Port of departure | Agreed & recommended by SC3 |
| Date and time of return to port | Agreed & recommended by SC3 |
| Port of return | Agreed & recommended by SC3 |
| OBSERVER INFORMATION | |
| Observer name | Agreed & recommended by SC3 |
| Nationality of observer | Agreed & recommended by IWG ROP2 |
| Observer provider -country or organisation | Agreed & recommended by IWG ROP2 |
| Observer's ROP certification number | Agreed & recommended by SC3 |
| Date, time and location of | Agreed & recommended by SC3 |

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|---|---|
| embarkation | |
| Date, time and location of disembarkation | Agreed & recommended by SC3 |
| CREW INFORMATION | |
| Name of captain | Agreed & recommended by SC3 |
| Nationality of captain | Agreed & recommended by IWG ROP2 |
| Identification document | Agreed & recommended by IWG ROP2 |
| Name of fishing master | Agreed & recommended by SC3 |
| Nationality of fishing master | Agreed & recommended by IWG ROP2 |
| Identification document | Agreed & recommended by IWG ROP2 |
| Other crew | Agreed & recommended by SC3 |
| [Nationality of crew] | Referred to TCC4 for further discussion |
| Total number of Crew | Agreed & recommended by IWG ROP2 |
| VESSEL ATTRIBUTES | |
| Vessel cruising speed | Agreed & recommended by IWG ROP2 |
| [Vessel fish hold capacity] | Referred to TCC4 for further discussion |
| VESSEL ELECTRONICS | |
| Radars | Agreed & recommended by SC3 |
| Depth sounder | Agreed & recommended by SC3 |
| Global positioning system (GPS) | Agreed & recommended by SC3 |
| Track plotter | Agreed & recommended by SC3 |
| Weather facsimile | Agreed & recommended by SC3 |
| Sea surface temperature (SST) gauge | Agreed & recommended by SC3 |
| Sonar | Agreed & recommended by SC3 |
| Radio/ Satellite buoys | Agreed & recommended by SC3 |
| Doppler current meter | Agreed & recommended by SC3 |
| Expendable bathythermograph (XBT) | Agreed & recommended by SC3 |
| Satellite communications services (Phone/Fax/Email numbers) | Agreed & recommended by IWG ROP2 Noting data confidentiality and |

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| | security. |
| Fishery information services | Agreed & recommended by IWG ROP2 |
| Vessel monitoring system | Agreed & recommended by SC3 |

Table 2. Longline information and data

| VESSEL ATTRIBUTES | |
|---|---|
| Refrigeration Method | Agreed & recommended by SC3 |
| GENERAL GEAR ATTRIBUTES | |
| Mainline material | Agreed & recommended by SC3 |
| Mainline length | Agreed & recommended by SC3 |
| Mainline diameter | Agreed & recommended by SC3 |
| Branch line material(s) | Agreed & recommended by SC3 |
| SPECIAL GEAR ATTRIBUTES | |
| Wire trace | Agreed & recommended by IWG ROP2 |
| Mainline hauler | Agreed & recommended by IWG ROP2 |
| Branch line hauler | Agreed & recommended by IWG ROP2 |
| Line shooter | Agreed & recommended by IWG ROP2 |
| Automatic bait thrower | Agreed & recommended by IWG ROP2 |
| Automatic branch line attached | Agreed & recommended by IWG ROP2 |
| Hook type | Agreed & recommended by IWG ROP2 |
| Hook size | Agreed & recommended by IWG ROP2 |
| Tori pole | Agreed & recommended by IWG ROP2 |
| Bird curtain | Agreed & recommended by IWG ROP2 |
| Weighted branch lines | Agreed & recommended by IWG ROP2 |
| Blue dyed bait | Agreed & recommended by IWG ROP2 |
| Underwater setting shoot | Agreed & recommended by IWG ROP2 |
| Disposal method for offal management | Agreed & recommended by IWG ROP2 |
| SET AND HAUL INFORMATION | |
| Date and time of start of set | Agreed & recommended by SC3 |
| Latitude and longitude of start of set | Agreed & recommended by SC3 |

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|--|---|
| Date and Time of end of set | Agreed & recommended by SC3 |
| Latitude and longitude of end of set | Agreed & recommended by SC3 |
| Total number of baskets or floats | Agreed & recommended by IWG ROP2 |
| Number of hooks per basket, or number of hooks between floats | Agreed & recommended by IWG ROP2 |
| Total number of hooks used in a set | Agreed & recommended by SC3 |
| Line shooter speed | Agreed & recommended by IWG ROP2 |
| Length of float-line | Agreed & recommended by IWG ROP2 |
| Distance between branch-lines | Agreed & recommended by IWG ROP2 |
| Length of branch-lines | Agreed & recommended by IWG ROP2 |
| Time-depth recorders (TDRs) | Agreed & recommended by IWG ROP2 |
| Number of light-sticks | Agreed & recommended by IWG ROP2 |
| Target species | Agreed & recommended by SC3 |
| Bait species | Agreed & recommended by SC3 |
| Date and time of start of haul | Agreed & recommended by SC3 |
| Date and time of end of haul | Agreed & recommended by SC3 |
| Total amount of baskets, floats monitored by observer in a single set | Agreed & recommended by IWG ROP2 |
| INFORMATION ON CATCH FOR EACH SET | |
| [Hook number, between floats] | Agreed & recommended by IWG ROP2 |
| Species code | Agreed & recommended by SC3 |
| Length of fish | Agreed & recommended by SC3 |
| Length measurement code | Agreed & recommended by SC3 |
| Gender | Agreed & recommended by SC3 |
| Condition when caught | Agreed & recommended by SC3 |
| Fate | Agreed & recommended by SC3 |
| Condition when discarded | Agreed & recommended by SC3 |
| Tag recovery information | Agreed & recommended by SC3 |

Table 3. Pole-and-line information and data

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| VESSEL ATTRIBUTES |
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|--|--|
| [Vessel fish hold capacity] | Referred to TCC4 for further discussion |
| GEAR ATTRIBUTES | |
| Automatic poling devices | Agreed & recommended by SC3 |
| | |
| INFORMATION ON DAILY ACTIVITIES | |
| Date and time of start of daily activities | Agreed & recommended by SC3 |
| Time of activity | Agreed & recommended by SC3 |
| Latitude and longitude of activity | Agreed & recommended by SC3 |
| Type of activity | Agreed & recommended by SC3 |
| Numbers of school sighted per day | Agreed & recommended by SC3 |
| BAITFISHING INFORMATION | |
| Bait species caught | Agreed & recommended by SC3 |
| Bait Species purchased | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Estimated weight or quantity of bait caught or used | Agreed & recommended by IWG ROP2 |
| SCHOOL INFORMATION | |
| Method of detection of school | Agreed & recommended by SC3 |
| Type of school association | Agreed & recommended by SC3 |
| INFORMATION ON CATCH PER SCHOOL FISHED | |
| Number of crew poling | Agreed & recommended by SC3 |
| Time of start of spraying, chumming and poling | Agreed & recommended by SC3 |
| Time of end of spraying, chumming and poling | Agreed & recommended by SC3 |
| Retained catch, by species | Agreed & recommended by SC3 |
| Discards, by species | Agreed & recommended by SC3 |
| Tag recovery information | Agreed & recommended by SC3 |
| Species code | Agreed & recommended by SC3 |
| Length measurement code | Agreed & recommended by SC3 |
| Length | Agreed & recommended by SC3 |

Table 4. Purse seine information and data

| VESSEL AND RELATED ATTRIBUTES | |
|---|--|
| Number of onboard support vessels | Added by IWG-ROP2 - Agreed & recommended by IWG ROP2 |
| Aircraft Make/Model,/Colour/ Call sign/Registration | Changes to wording Agreed & recommended by IWG ROP2 |
| GEAR ATTRIBUTES | |
| Maximum depth of net | Agreed & recommended by SC3 |
| Maximum length of net | Agreed & recommended by SC3 |
| Net mesh size | Agreed & recommended by SC3 |
| Brailer capacity sizes | Agreed & recommended by IWG ROP2 |
| INFORMATION ON DAILY ACTIVITIES | |
| Date and time of start of daily activities | Agreed & recommended by SC3 |
| Time of activity | Agreed & recommended by SC3 |
| Latitude and longitude of activity | Agreed & recommended by SC3 |
| Numbers of school sighted per day | Agreed & recommended by SC3 |
| SCHOOL INFORMATION | |
| Method of detection of school | Agreed & recommended by SC3 |
| Type of school association | Agreed & recommended by SC3 |
| SET INFORMATION | |
| Observer's record of date and time of start of set | Agreed & recommended by SC3 |
| Observers record of date and time of end of set | Agreed & recommended by SC3 |
| Vessel's record of date and time of start of set | Agreed & recommended by SC3 |
| Retained catch, by species | Agreed & recommended by SC3 |
| Discards, by species | Agreed & recommended by SC3 |
| Tag recovery information | Agreed & recommended by SC3 |
| INFORMATION ON CATCH FOR EACH SET | |
| Species code | Agreed & recommended by SC3 |

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| Length measurement code | Agreed & recommended by SC3 |
| Length | Agreed & recommended by SC3 |

Table 5. Troll or other fishing information and data

| VESSEL ATTRIBUTES | |
|--|--|
| As per General attributes | |
| GEAR ATTRIBUTES | |
| Mechanical Haulers | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Weighing Scales | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Number of lines used | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Refrigeration method | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| INFORMATION ON DAILY ACTIVITIES | |
| Date and time of start of daily activities | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Time of activity | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Latitude and longitude of activity | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Type of activity | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Numbers of school sighted per day | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| INFORMATION ON CATCH FOR EACH OPERATION | |
| Species code | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Length of fish | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Length measurement code | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Gender if possible | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Condition when caught | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Fate | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |

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| Condition if discarded | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |
| Tag recovery information | Added by IWG -ROP2 - Agreed & recommended by IWG ROP2 |

Table 6. Species of special interest

| GENERAL INFORMATION | |
|--|-----------------------------|
| Type of interaction | Agreed & recommended by SC3 |
| Date and time of interaction | Agreed & recommended by SC3 |
| Latitude and longitude of interaction | Agreed & recommended by SC3 |
| Species code of marine reptile, marine mammal or seabird | Agreed & recommended by SC3 |
| LANDED ON DECK | |
| Length | Agreed & recommended by SC3 |
| Length measurement code | Agreed & recommended by SC3 |
| Gender | Agreed & recommended by SC3 |
| Condition when landed on deck | Agreed & recommended by SC3 |
| Condition when released | Agreed & recommended by SC3 |
| Tag recovery information | Agreed & recommended by SC3 |
| Tag release information | Agreed & recommended by SC3 |
| INTERACTION WITH VESSEL OR GEAR ONLY | |
| Vessel's activity during interaction | Agreed & recommended by SC3 |
| Condition observed at start of interaction | Agreed & recommended by SC3 |
| Condition observed at end of interaction | Agreed & recommended by SC3 |
| Description of interaction | Agreed & recommended by SC3 |
| Number of animals sighted | Agreed & recommended by SC3 |

Vessel and Aircraft sightings

Table 7 Vessels & Aircraft Sightings

| VESSELS & AIRCRAFT SIGHTINGS | |
|--|---|
| UTC Date & Time of sighting | Agreed & recommended by IWG ROP2 |
| Observers Vessel latitude and longitude position | Agreed & recommended by IWG ROP2 |
| Where possible sighted Vessel or Aircraft Name | Agreed & recommended by IWG ROP2 |
| Where possible sighted Vessel or Aircraft Call sign | Agreed & recommended by IWG ROP2 |
| Flag of sighted vessel if possible | Agreed & recommended by IWG ROP2 |
| Other vessel markings | Agreed & recommended by IWG ROP2 |
| Type of Vessel (i.e. Purse-seiner - Long liner, etc.) | Agreed & recommended by IWG ROP2 |
| Compass bearing from observers vessels to sighted vessel | Agreed & recommended by IWG ROP2 |
| Estimated distance from observers vessels to sighted vessel | Agreed & recommended by IWG ROP2 |
| Activity of sighted vessel i.e. Fishing, drifting, Steaming etc | Agreed & recommended by IWG ROP2 |
| Comments-. | Agreed & recommended by IWG ROP2 |