

**SPRFMO Report Annex C**

**Report of the Data and Information Working Group  
Guayaquil, Ecuador  
March 5-7, 2008**

**1. Opening of the Meeting**

The meeting was opened by the Chair, Ms. Kelly Denit (United States).

**2. Administrative matters**

The Chair provided logistic and administrative information to the participants. The Agenda was adopted with minor changes and is attached as Annex 1. A list of participants is attached as Annex 2.

**3. Election of Rapporteur**

Mr. Aquiles Sepulveda (Chile) was elected rapporteur for the meeting.

**4. Intersessional Work Items**

*4.1 Agree on standards for the collection, reporting and exchange of observer data.*

The DIWG used the text “Standards for the collection, reporting, and exchange of observer data” (SPRFMO-V-DIWG-06) as the starting point for discussions on observer data standards. Written comments on this document were submitted by Japan and circulated (SPRFMO-V-DIWG-08). Discussions in the DIWG focused on the fields of data that should be collected and the level of detail appropriate for scientific purposes. The DIWG also considered the need to ensure that representative samples are collected. It was further noted that otolith samples should be collected for jack mackerel, where possible, given the upcoming stock assessment.

Participants considered the submission of observer implementation reports a good idea, particularly because feedback on such reports could help improve national observer programs. It was noted that during the development of national report guidelines during the intersessional period by the SWG, consideration should be given to ensuring information is not duplicated in both the observer implementation reports and the national reports.

The DIWG reached consensus on draft observer data standard to be recommended to the Plenary session for its consideration and adoption that is attached as Annex 3.

#### *4.2 Agree on standards for operational catch and effort data for drop/dahn lining and transshipment data.*

A) The DIWG used the text “Standards for the collection, reporting, verification and exchange of data” (SPRFMO-V-DIWG-05) as the starting point for discussions on drop/dahn lining and transshipment. Discussions in the DIWG focused on the fields of data that should be collected for drop/dahn lining.

The DIWG reached consensus on draft drop/dahn line data standard to be recommended to the Plenary session for its consideration and adoption that is attached as Annex 4.

B) Regarding transshipment, discussions in the DIWG focused on incorporation of additional elements that were proposed by Chile (Standards for Transshipment Activity, SPRFMO-V-DIWG-07, Annex 5). Participants expressed concern that some elements of Chile’s proposal were associated with landing in port and would therefore be more appropriate to incorporate into the landings data standard.

A majority DIWG Participants agreed on a draft transshipment data standard. Chile expressed concern that by not including the information that would be collected at the time of landing in port, verification of the transshipment information would be difficult. The DIWG, except Chile, was able to agree to the following with regards to transshipment:

1. Data are to be collected on an individual transshipment basis
2. The following fields of data are to be collected:
  - a. Name, registration number, call sign of transshipping (delivering) vessel, flag state, IMO number/Lloyd number, and fishing license number
  - b. Master of transshipping vessel
  - c. Name, registration number, call sign of reefer (receiving) vessel, flag state, and IMO number/Lloyd number
  - d. Master of reefer vessel

- e. Date and time of commencement of transshipment
- f. Date and time of completion of transshipment
- g. Position (nearest 1/10<sup>th</sup> degree) at commencement of transshipment
- h. Position (nearest 1/10<sup>th</sup> degree) at completion of transshipment
- i. Description of product type by species (e.g. whole, frozen fish in 20kg cartons)
- j. Number of cartons, net weight (metric tonnes) of product, by species
- k. Total net weight of product transshipped
- l. Hold numbers in reefer vessel in which product is stowed
- m. Destination port of reefer vessel, estimated date of arrival to port and landing (*may not always be known at time of transshipment*).
- n. Name of Observer, Authority, Address, Telephone/Fax, email, if applicable
- o. Data of the origin of products that are being transferred: fishing period of catches reported in this document, fishing area (Area, sub-area or FAO statistical division where catch was obtained).

Though the DIWG could not reach consensus, the Participants agreed to continue to work intersessionally on this issue.

#### **5. Other Work Items (as time permits) and Development of a new Work Plan.**

The DIWG determined that no additional standards for operational-level catch and effort data for other fishing methods were needed at this time, though Participants recognized this may need to be reconsidered in the future if different fishing methods are used in the SPRFMO area.

Chile gave a presentation on their port sampling scheme for jack mackerel. Participants thanked Chile for sharing this information and several items were discussed further. In particular, Participants discussed the different measurement types (SL, FL, TL) used and the need for standardization or use of conversions. It was noted that the majority of Participants were using fork length for jack mackerel, and therefore it is preferable that other Participants collect length data in this manner.

During the intersessional period, the DIWG will work to advance the following:

- Develop standardized type of length measurements to be taken and precision of those measurements on a species by species basis, in particular for jack mackerel during the 2008 workshop.
- Develop a data standard for landings reports.
- Continue development of a data standard for transshipment.
- Update and combine the data standards adopted in Reñaca, Noumea and Guayaquil in response to suggestions noted by the Interim Secretariat.

Further, the DIWG asks that the SWG develop lists and identification keys for protected species and vulnerable benthic species.

## **6. Other Business**

The Interim Secretariat presented a document titled “General Data Specifications/ Standardization Issues to be considered by the DIWG” (SPRFMO-V-DIWG-09).

The first item of discussion was the requirement to report gross register tonnage (GRT) in the data standards adopted compared to the interim measures which require gross tonnage (GT). Participants noted that the standard way tonnage is measured had changed over time. It was agreed that Participants would consult with their necessary agencies to determine which measure was used in their flag state and bring that information to the next meeting of the DIWG for further consideration.

The Interim Secretariat noted that data submitted thus far was not always clearly labeled. Participants agreed that future data submissions would be properly labeled including the time zone in UTC, species by FAO 3 letter codes, catch in kg(s), the time period for which the data applies, whether the data is from the high seas only or includes catch in waters under national jurisdiction, and the data source. Participants asked the Interim Secretariat to develop a template format intersessionally for data submission.

The Interim Secretariat indicated that clarification was needed on aspects of the vessel data reporting standards. Participants agreed with the Interim Secretariat's suggestion to provide dates associated with changes in vessel name, flag, length and GRT/GT. Similar to the issue with GRT/GT, it was noted that length information is being submitted as either length overall (LOA) or length between perpendiculars (LBP). Participants agreed to consult with their necessary agencies to determine which measure was used in their flag state and bring that information to the next meeting of the DIWG for further consideration.

The Interim Secretariat stated that there was confusion regarding the precision of location data because the current data standard requires location to 1/10<sup>th</sup> of a degree, but then requires data to the nearest 6 seconds, which is not the same resolution. Participants agreed that Annex 5 of Standards for the collection, reporting, verification and exchange of data, Specifications for the exchange of data, paragraph 2 should read:

“2. Degrees, Minutes and Seconds are to be used to describe locations. Where locations are required to be provided at the 1/10<sup>th</sup> of a degree resolution, this is to be achieved by rounding to the nearest 6 minutes.”

The Interim Secretariat also asked that there be a standard format for submission of UTC Data/Time data. Participants asked the Interim Secretariat to develop a standard format intersessionally.

The DIWG noted with concern the lack of detailed catch and effort data that has been submitted to the Interim Secretariat to date. Participants were strongly encouraged to submit detailed data as specified in Annexes 1, 2, and 3 of the Standards for collection reporting, verification and exchange of data adopted in Reñaca as soon as possible, particularly regarding jack mackerel so that data can be available for the Jack Mackerel workshop in July 2008.

Ms. Kelly Denit (United States) was sentenced to serve as the Chair for the next meeting of the DIWG.

## **10. Adoption of Report**

The report was adopted by consensus.

## **DATA AND INFORMATION WORKING GROUP**

**Guayaquil, Ecuador  
5-7 March 2008**

- 1. Opening of the Meeting**
- 2. Administrative Matters**
- 3. Election of Rapporteur**
- 4. Intercessional Work Items**
  - 4.1. Agree on standards for the collection, reporting and exchange of observer data
  - 4.2. Agree on standards for operational-level catch and effort data for drop lining and transshipment data
- 5. Other Work Items (as time permits) and Development of a new Work Plan**
  - 5.1. Agree on standards for operational-level catch and effort data for other fishing methods
  - 5.2. Agree on standards for landings reports
- 6. Other Business**

Issues raised by the Interim Secretariat
- 7. Adoption of the Report**

Participants List

**“FIFTH INTERNATIONAL MEETING ON THE ESTABLISHMENT OF A SOUTH  
PACIFIC REGIONAL FISHERIES MANAGEMENT ORGANISATION”**

**DATA AND INFORMATION WORKING GROUP MEETING**

Guayaquil, Ecuador, 5 - 7 March 2008

**AUSTRALIA**

Names : ***Sandy Morison***  
Organisation : Bureau of Rural Sciences, D.A.F.F.  
Role : Chair, Jack Mackerel Sub Group, Delegate  
Address : G PO Box 858, Canberra Act 2601  
Telephone : (61-2) 62725534  
Fax : (61-2) 62723882  
E-mail : [sandy.morison@brs.gov.au](mailto:sandy.morison@brs.gov.au)  
Web page : [www.brs.gov.au](http://www.brs.gov.au)

**CUBA**

Names : ***Alina González Flores***  
Organisation : Ministerio Industria Pesquera de Cuba  
Role : Directora de Negocios  
Address : 5a ave, Barlovento  
Telephone : (53-7) 2725849  
Fax :  
E-mail : [alina@mip.telemar.cu](mailto:alina@mip.telemar.cu)  
[alin170960@yahoo.cs](mailto:alin170960@yahoo.cs)  
Web page :

Names : ***Miguel Ortega Fernández***  
Organisation : Grupo Empresarial Pesport (MIP)  
Role : Gerente de Negocios y Organizaciones Internacionales  
Address : Av. La Pesquera s/n y Hacendados, La Habana  
Telephone : (53-7) 624024  
Fax :  
E-mail : [miguelortega2003@yahoo.es](mailto:miguelortega2003@yahoo.es)  
[ortega@pesport.telemar.cu](mailto:ortega@pesport.telemar.cu)  
Web page :

## **CHILE**

Names : **María Alicia Baltierra**  
Organisation : SONAPESCA  
Role : Abogado  
Address : Barros Erázuriz 1954, Santiago  
Telephone : (562) 2692533  
Fax :  
E-mail : [mab@vtr.net](mailto:mab@vtr.net)  
Web page : [www.sonapesca.cl](http://www.sonapesca.cl)

Names : **Cristian Canales Ramírez**  
Organisation : Instituto de Fomento Pesquero - IFOP  
Role : Delegado  
Address : Blanco 839, Valparaíso  
Telephone : (56-32) 2151424  
Fax :  
E-mail : [ccanales@ifop.cl](mailto:ccanales@ifop.cl)  
Web page : [www.ifop.cl](http://www.ifop.cl)

Names : **Vilma Correa**  
Organisation : Servicio Nacional de Pesca  
Role : Profesional Dpto. de Fiscalización  
Address : Victoria 2834, Valparaíso  
Telephone : (56-32) 2819311  
Fax :  
E-mail : [vcorrea@sernapesca.cl](mailto:vcorrea@sernapesca.cl)  
Web page : [www.sernapesca.cl](http://www.sernapesca.cl)

Names : **Jorge Farías Ahumada**  
Organisation : Subsecretaría de Pesca  
Role : Profesional  
Address : Bellavista 168, piso 14, Valparaíso  
Telephone : (56-32) 2502700  
Fax :  
E-mail : [jfarias@subpesca.cl](mailto:jfarias@subpesca.cl)  
Web page : [www.subpesca.cl](http://www.subpesca.cl)

Names : **Rodrigo Polanco Zamora**  
Organisation : Subsecretaría de Pesca  
Role : Profesional División Desarrollo  
Address : Bellavista 168, piso 19  
Telephone : (56-32) 2502804  
Fax : (56-32) 2502810  
E-mail : [rpolanco@subpesca.cl](mailto:rpolanco@subpesca.cl)  
Web page : [www.subpesca.cl](http://www.subpesca.cl)

Names : **Aquiles Sepúlveda Oróstica**  
Organisation : Instituto de Investigación Pesquera  
Role : Director  
Address : Avd. C. Colón # 2780, Talcahuano  
Telephone : (56-41) 2920410  
Fax : (56-41) 2920411  
E-mail : [asepulveda@inpesca.cl](mailto:asepulveda@inpesca.cl)  
Web page : [www.inpesca.cl](http://www.inpesca.cl)

Names : **Rodolfo Serra Behrens**  
Organisation : Instituto de Fomento Pesquero - IFOP  
Role : Investigador Principal  
Address : Blanco 839, Valparaíso  
Telephone : (56-32) 2151426  
Fax :  
E-mail : [rserra@ifop.cl](mailto:rserra@ifop.cl)  
Web page : [www.ifop.cl](http://www.ifop.cl)

Names : **Alejandro Zuleta Villalobos**  
Organisation : SONAPESCA  
Role : Delegado  
Address : Mariano Sánchez Fontecilla, 364, Santiago  
Telephone : (562) 2325204  
Fax :  
E-mail : [alzuleta@entelchile.net](mailto:alzuleta@entelchile.net)  
Web page :

## **CHINA**

Names : **Zhou Ying Qi**  
Organisation : Shanghai Fisheries University  
Role : Member  
Address : 334 Jungong Road, Shanghai  
Telephone : 8621-65710392  
Fax : 8621-65710203  
E-mail : [yqzhou@shfu.edu.cn](mailto:yqzhou@shfu.edu.cn)  
Web page : [www.shfu.edu.cn](http://www.shfu.edu.cn)

Names : **Zon Xiao Yong**  
Organisation : Shanghai Fisheries University  
Role : Delegation Member  
Address : 334 Jungong Road, Shanghai  
Telephone : 86-21-65710205  
Fax : 8621-65710203  
E-mail : [xyzon@shfu.edu.cn](mailto:xyzon@shfu.edu.cn)  
Web page : [www.shfu.edu.cn](http://www.shfu.edu.cn)

## **ECUADOR**

Names : **Manuel Cruz Padilla**  
Organisation : Instituto Oceanográfico de la Armada - INOCAR  
Role : Biólogo Oceanográfico  
Address : Av. 25 de Julio, Vía Puerto Marítimo, Guayaquil  
Telephone : (593-4) 2481300  
Fax : (593-4) 2485166  
E-mail : [macruz@inocar.mil.ec](mailto:macruz@inocar.mil.ec)  
Web page : [www.inocar.mil.ec](http://www.inocar.mil.ec)

Names : **Natalia González Carvajal**  
Organisation : Instituto Nacional de Pesca - INP  
Role : Investigador Pesquero – Recursos Pelágicos  
Address : Letamendi # 102 y Eloy Alfaro, Guayaquil  
Telephone : (593-4) 2401057, ext. 129  
Fax :  
E-mail : [ngonzalez@inp.gov.ec](mailto:ngonzalez@inp.gov.ec)  
Web page : [www.inp.gov.ec](http://www.inp.gov.ec)

Names : **Viviana Jurado Maldonado**  
Organisation : Instituto Nacional de Pesca - INP  
Role : Investigador Pesquero Peces Pelágicos Pequeños  
Address : Letamendi # 102 y La Ría, Guayaquil  
Telephone : (593-4) 2401057, ext. 127  
Fax :  
E-mail : [vjurado@inp.gov.ec](mailto:vjurado@inp.gov.ec)  
Web page : [www.inp.gov.ec](http://www.inp.gov.ec)

Names : **Edwin Moncayo Calderero**  
Organisation : Subsecretaría de Recursos Pesqueros  
Role : Análisis Proyectos y Cooperación Internacional  
Address : Av. 4 y Calle 12, Manta  
Telephone : (593-5) 2627911  
Fax : (593-5) 2627911  
E-mail : [edwin.moncayo@pesca.gov.ec](mailto:edwin.moncayo@pesca.gov.ec)  
Web page :

Names : **Manuel Peralta Bravo**  
Organisation : Instituto Nacional de Pesca - INP  
Role : Investigador Pesquero  
Address : Letamendi # 102 y La Ría, Guayaquil  
Telephone : (593-4) 2401773 – 76 - 79, ext. 146  
Fax :  
E-mail : [mperalta@inp.gov.ec](mailto:mperalta@inp.gov.ec)  
Web page : [www.inp.gov.ec](http://www.inp.gov.ec)

Names : **Erklin Quintero Palma**  
Organisation : Subsecretaría de Recursos Pesqueros  
Role : Analista  
Address : Av. 4 y Calle 12, Manta  
Telephone : (593-9) 7250834  
Fax : (593-5) 2627911  
E-mail : [erklin.quintero@subpesca.gov.ec](mailto:erklin.quintero@subpesca.gov.ec)  
Web page :

Names : **Ma. del Pilar Solís Coello**  
Organisation : Instituto Nacional de Pesca - INP  
Role : Subdirectora  
Address : Letamendi # 102 y La Ría, Guayaquil  
Telephone : (593-4) 2401776  
Fax :  
E-mail : [psolis@inp.gov.ec](mailto:psolis@inp.gov.ec)  
Web page : [www.inp.gov.ec](http://www.inp.gov.ec)

Names : **Gladys Torres**  
Organisation : Instituto Oceanográfico de la Armada - INOCAR  
Role : Observador Científico  
Address : Av. 25 de Julio, vía Puerto Marítimo, Guayaquil  
Telephone : (593-4) 2481300  
Fax : (593-4) 2485166  
E-mail : [gtorres@inocar.mil.ec](mailto:gtorres@inocar.mil.ec)  
Web page : [www.inocar.mil.ec](http://www.inocar.mil.ec)

## **EUROPEAN UNION**

Names : **Ad Corten**  
Organisation : Consultant to European Commission  
Role : Scientist  
Address : De Waterdief 52, Uitgeest, Netherlands  
Telephone : (31) 251313280  
Fax :  
E-mail : [adcorten@yahoo.co.uk](mailto:adcorten@yahoo.co.uk)  
Web page :

## **FAROE ISLANDS**

Names : **Jan Argen Jacobsen**  
Organisation : Faroese Fisheries Laboratory  
Role : Scientist  
Address : Nóatún 1, PO Box 3051, FO-110 Torshavn  
Telephone : 298-353900  
Fax :  
E-mail : [janarge@frs.fo](mailto:janarge@frs.fo)  
Web page : [www.frs.fo](http://www.frs.fo)

Names : **Joguan Martin Joensen**  
Organisation : THOR  
Role : Delegate  
Address : Bryggjan 5 - Hosuik  
Telephone : 298-585825  
Fax : 298-422383  
E-mail : [jm@thor.fo](mailto:jm@thor.fo)  
Web page : [www.thor.fo](http://www.thor.fo)

### **FEDERATE STATES OF MICRONESIA**

Names : **Eugene Pangelinan**  
Organisation : National Oceanic Resource Management Authority  
Role : HOD  
Address : PO BOX PS122, Palkir, Pohnpei 96941  
Telephone : (691) 3202700 / 5181  
Fax : (691) 3202383  
E-mail : [eugenep@mail.fm](mailto:eugenep@mail.fm)  
[norma@mail.fm](mailto:norma@mail.fm)  
Web page : [www.norma.fm](http://www.norma.fm)

### **NEW ZEALAND**

Names : **Martin Cryer**  
Organisation : Ministry of Fisheries  
Role : Delegate  
Address : PO Box 1020, Wellington  
Telephone : (64-4) 8194253  
Fax :  
E-mail : [cryerm@fish.govt.nz](mailto:cryerm@fish.govt.nz)  
Web page : [www.fish.govt.nz](http://www.fish.govt.nz)

Names : **Kim Duckworth**  
Organisation : Ministry of Fisheries  
Role : Delegate  
Address : PO Box 1020, Wellington  
Telephone : (64-4) 4604616  
Fax :  
E-mail : [duckwork@fish.govt.nz](mailto:duckwork@fish.govt.nz)  
Web page : [www.fish.govt.nz](http://www.fish.govt.nz)

Names : **Andrew Penney**  
Organisation : Ministry of Fisheries  
Role : Chair: SWG  
Address : PO Box 1020, Wellington  
Telephone : (64-4) 8194788  
Fax :  
E-mail : [Andrew.Penney@fish.govt.nz](mailto:Andrew.Penney@fish.govt.nz)  
Web page : [www.fish.govt.nz](http://www.fish.govt.nz)

Names : **Barry Weeber**  
Organisation : ECO  
Role : Advisor  
Address : PO Box 11-057, Wellington  
Telephone : (64-4) 3891696  
Fax : (64-4) 3891696  
E-mail : [b.weeber@paradise.net.nz](mailto:b.weeber@paradise.net.nz)  
Web page :

## **PERU**

Names : **Teobaldo Dioses Romero**  
Organisation : Instituto del Mar del Perú - IMARPE  
Role : Director Recursos Transzonales  
Address : Esq. Gamarra y Gral. Valle s/n, Chucuito, Callao  
Telephone : (511) 4202000, anexo 227  
Fax :  
E-mail : [tdioses@imarpe.gob.pe](mailto:tdioses@imarpe.gob.pe)  
Web page : [www.imarpe.gob.pe](http://www.imarpe.gob.pe)

Names : **Raúl Flores Romani**  
Organisation : Ministerio de la Producción  
Role : Biólogo IV  
Address : Calle Uno N° 60, Urb. CORPAC, San Isidro, Lima  
Telephone : (511) 6162222, anexo 213  
Fax :  
E-mail : [rflores@produce.gob.pe](mailto:rflores@produce.gob.pe)  
Web page : [www.produce.gob.pe](http://www.produce.gob.pe)

Names : **Ulises Munaylla Alarcón**  
Organisation : Instituto del Mar del Perú - IMARPE  
Role : Asesor  
Address : Esq. Gamarra y Gral. Valle s/n, Chucuito, Callao  
Telephone : (511) 4296600, 4297630  
Fax : (511) 4296600  
E-mail : [umunaylla@imarpe.gob.pe](mailto:umunaylla@imarpe.gob.pe)  
Web page : [www.imarpe.gob.pe](http://www.imarpe.gob.pe)

## **REPUBLIC OF KOREA**

Names : **Doonam Kim**  
Organisation : Nat. Fish. Res. & Dev. Inst.  
Role : Delegation  
Address : Shirang-ri 408-1, Kijang-up, Kijang-gun, Pusan  
Telephone : (82-51) 7202324  
Fax : (82-51) 7202337  
E-mail : [dnkim@nfrdi.re.kr](mailto:dnkim@nfrdi.re.kr)  
Web page : [www.nfrdi.re.kr](http://www.nfrdi.re.kr)

## **RUSSIA**

Names : **Alexander Glubokov**  
Organisation : State Rus. Com. Fish. – Fed. Res. Fish. Inst.  
Role : Member of Delegation of RF  
Address : V. Krasnoselskaya St. 17, Moscow  
Telephone : (7-499) 2649143  
Fax : (7-499) 2649021  
E-mail : [glubokov@vniro.ru](mailto:glubokov@vniro.ru)  
Web page : [www.vniro.ru](http://www.vniro.ru)

Names : **Andrei Makavchik**  
Organisation : Sovgavanryba LLC  
Role : Advisor, Delegation  
Address : 17, Barklaya St, Moscow  
Telephone : (7-926) 3713236  
Fax : (7-495) 1452130  
E-mail : [makavchik@yahoo.com](mailto:makavchik@yahoo.com)  
Web page :

## **UNITED STATES**

Names : **Kelly Denit**  
Organisation : NOAA  
Role : Delegate  
Address : 1315 East West Hgwy, Km 12622 Silver Spring Md, 20910  
Telephone : (1) 301-7132276  
Fax : (1) 301-7132313  
E-mail : [kelly.denit@noaa.gov](mailto:kelly.denit@noaa.gov)  
Web page : [www.noaa.gov](http://www.noaa.gov)

## **VANUATU**

Names : **Gerry Geen**  
Organisation : Vanuatu Fisheries  
Role : Head of Delegation  
Address :  
Telephone : (61) 242323736  
Fax :  
E-mail : ggeen@.....  
Web page :

## **VENEZUELA**

Names : **David López**  
Organisation : Instituto Nacional de Pesca y Acuicultura - INAPESCA  
Role : Observador  
Address : Chacaito, Caracas  
Telephone : (212) 9528356 / 416-6151120  
Fax : (212) 9528356  
E-mail : [dlopezsanchez@gmail.com](mailto:dlopezsanchez@gmail.com) [gop@inapesca.gob.ve](mailto:gop@inapesca.gob.ve)  
Web page : [www.inapesca.gob.ve](http://www.inapesca.gob.ve)

## **INTERIM SECRETARIAT**

Names : **Robin Allen**  
Organisation : SPRFMO  
Role : Executive Secretary  
Address : PO Box 3797, Wellington, New Zealand  
Telephone : (64-4) 4999889  
Fax : (64-4) 4739579  
E-mail : [robin.allen@southpacificfmo.org](mailto:robin.allen@southpacificfmo.org)  
Web page : [www.southpacificfmo.org](http://www.southpacificfmo.org)

Names : **Susie Iball**  
Organisation : Interim Secretariat  
Role : Data Manager  
Address : PO Box 3797, Wellington 6140, New Zealand  
Telephone : (64-4) 4999894  
Fax : (64-4) 4739579  
E-mail : [susie.iball@southpacificfmo.org](mailto:susie.iball@southpacificfmo.org)  
Web page : [www.southpacificfmo.org](http://www.southpacificfmo.org)

## **OBSERVERS**

Names : **Mario Palacios Moreno**  
Organisation : Comisión Permanente del Pacífico Sur - CPPS  
Role : Director de Asuntos Científicos  
Address : Av. Carlos Julio Arosemena, Km. 3, Complejo Albán Borja,  
Edificio Classic, 2° piso, Guayaquil, Ecuador  
Telephone : (593-4) 2221202 – 2221203, ext. 111  
Fax : (593-4) 2221201  
E-mail : [dircient@cpps-int.org](mailto:dircient@cpps-int.org)  
[mpalacios@cpps-int.org](mailto:mpalacios@cpps-int.org)  
Web page : [www.cpps-int.org](http://www.cpps-int.org)

## **LOGISTICAL SUPPORT**

Names : **Alfonso Jalil Álvarez**  
Organisation : Comisión Permanente del Pacífico Sur - CPPS  
Role : Director de Asuntos Económicos  
Address : Av. Carlos Julio Arosemena, Km. 3, Complejo Albán Borja,  
Edificio Classic, 2° piso, Guayaquil, Ecuador  
Telephone : (593-4) 2221202 – 2221203, ext. 112  
Fax : (593-4) 2221201  
E-mail : [ajalil@cpps-int.org](mailto:ajalil@cpps-int.org)  
Web page : [www.cpps-int.org](http://www.cpps-int.org)

Names : **Ma. Soledad Manzo Arias**  
Organisation : Comisión Permanente del Pacífico Sur - CPPS  
Role : Secretaria de la Subsecretaría y de la Dirección de  
Asuntos Económicos  
Address : Av. Carlos Julio Arosemena, Km. 3, Complejo Albán Borja,  
Edificio Classic, 2° piso, Guayaquil, Ecuador  
Telephone : (593-4) 2221202 – 2221203, ext. 107  
Fax : (593-4) 2221201  
E-mail : [smanzo@cpps-int.org](mailto:smanzo@cpps-int.org)  
Web page : [www.cpps-int.org](http://www.cpps-int.org)

Names : **Mariuxi Yépez Valarezo**  
Organisation : Comisión Permanente del Pacífico Sur - CPPS  
Role : Secretaria de la Dirección de Asuntos Científicos  
Address : Av. Carlos Julio Arosemena, Km. 3, Complejo Albán Borja,  
Edificio Classic, 2° piso, Guayaquil, Ecuador  
Telephone : (593-4) 2221202 – 2221203, ext. 108  
Fax : (593-4) 2221201  
E-mail : [mariuxiyeppez@cpps-int.org](mailto:mariuxiyeppez@cpps-int.org)  
Web page : [www.cpps-int.org](http://www.cpps-int.org)

Names : **Andrés Macías Quiñónez**  
Organisation : Comisión Permanente del Pacífico Sur - CPPS  
Role : Departamento de Sistemas  
Address : Av. Carlos Julio Arosemena, Km. 3, Complejo Albán Borja,  
Edificio Classic, 2° piso, Guayaquil, Ecuador  
Telephone : (593-4) 2221202 – 2221203, ext. 113  
Fax : (593-4) 2221201  
E-mail : [sistemas@cpps-int.org](mailto:sistemas@cpps-int.org)  
Web page : [www.cpps-int.org](http://www.cpps-int.org)

## **Standards for the Collection, Reporting and Exchange of Observer Data**

With regard to the fishing vessels flying their flag and fishing for non-highly migratory fishery resources in the Area:

### **1. Implementation of Observer Programmes**

Participants are to develop, implement and improve Observer Programmes to attain the following objectives:

1. To collect vessel information, effort and catch data for all fisheries and fished species in the Area, including target, by-catch and associated and dependent species.
2. To collect biological or other data and information relevant to the management of fishery resources in the Area, as specified in these standards, or as identified from time to time by the Science Working Group or through processes identified by the Commission.
3. To collect relevant scientific information related to the implementation of the provisions of the Interim Measures adopted by the Participants to the negotiations for the formation of a South Pacific RFMO.
4. To collect representative data, including length-frequency and biological samples, across the Area, distribution of fishing effort, seasons, fishing fleets and fleet types.

### **2. Information and Data to be Collected**

All national observer programmes operating in the SPRFMO Area should provide the information in Annex 1.

### **3. Data Provision**

Observer data should be provided to the SPRFMO Secretariat in a standardised format, to be included in a SPRFMO Observer Database. Specifications and standards for this data submission will be developed by the SPRFMO Interim Secretariat. Until the SPRFMO Interim Secretariat determines a change is needed, observer data will be submitted in Microsoft Excel format. Participants will provide by the 30<sup>th</sup> September, their previous (January to December) year's data.

### **4. Annual Reporting**

All SPRFMO participants should provide annual observer implementation reports, which should include sections covering: observer training, programme design and coverage,

type of data collected, and any problems encountered during the year. These reports shall be adequate enough to allow the Data & Information Working Group, the Scientific Working Group or the Commission to evaluate the implementation and effectiveness of observer programmes implemented under this standard.

## **5. Maintenance of Confidentiality**

The interim Secretariat of the proposed SPRFMO is to compile and disseminate accurate and complete observer data to ensure that the best scientific evidence is available, while maintaining confidentiality where appropriate. In doing so, the Interim Secretariat is to follow the procedures specified in section 6 of the SPRFMO “*Standards for the collection, reporting, verification and exchange of data*”.

## **TYPE AND FORMAT OF OBSERVER DATA TO BE COLLECTED**

---

### **A. Vessel & Observer Data to be Collected for Each Observer Trip**

1. Vessel and observer details are to be recorded only once for each observed trip.
2. The following vessel data are to be collected for each observed trip:
  - a) Current vessel flag.
  - b) Name of vessel.
  - c) Name of the Captain.
  - d) Name of the Fishing Master.
  - e) Registration number.
  - f) International radio call sign (if any).
  - g) Lloyd's / IMO number (if allocated).
  - h) Previous Names (if known).
  - i) Port of registry.
  - j) Previous flag (if any).
  - k) Type of vessel.
  - l) Type of fishing method(s).
  - m) Length (m).
  - n) Beam (m).
  - o) Gross register tonnage.
  - p) Power of main engine(s) (kilowatts).
  - q) Hold capacity (cubic metres).
  - r) Record of the equipment on board which may affect fishing power factors (navigational equipment, radar, sonar systems, weather fax or satellite weather receiver, sea-surface temperature image receiver, Doppler current monitor, radio direction finder), where practical.
  - s) Total number of crew (all staff, excluding observers).
3. The following observer data are to be collected for each observed trip:
  - a) Observer's name.
  - b) Observer's organisation.
  - c) Date observer embarked (UTC date).
  - d) Port of embarkation.
  - e) Date observer disembarked (UTC date).
  - f) Port of disembarkation.

### **B. Catch & Effort Data to be Collected for Trawl Fishing Activity**

1. Data are to be collected on an un-aggregated (tow by tow) basis for all observed trawls.

2. The following data are to be collected for each observed trawl tow:
  - a) Tow start date.
  - b) Tow start time (the time gear starts fishing).
  - c) Tow end date.
  - d) Tow end time (the time haul back starts).
  - e) Tow start position (Lat/Lon, 1 minute resolution).
  - f) Tow end position (Lat/Lon, 1 minute resolution).
  - g) Intended target species.
  - h) Type of trawl, bottom or mid-water.
  - i) Type of trawl, single, double or triple.
  - j) Height of net opening.
  - k) Width of net opening.
  - l) Mesh size of the cod-end net (stretched mesh, mm) and mesh type (diamond, square, etc).
  - m) Gear depth (of footrope) at start of fishing.
  - n) Bottom (seabed) depth at start of fishing.
  - o) Catch of all species retained on board, split by species, in live weight (to the nearest kg).
  - p) Record of the numbers by species of all marine mammals, seabirds or reptiles caught.
  - q) Record of sensitive benthic species in the trawl catch, particularly vulnerable or habitat-forming species such as sponges, sea-fans or corals.
  - r) Estimate of the amount (weight or volume) of remaining marine resources discards, split to the lowest known taxon, unless the species is less than 100 kg per tow.
  - s) Record any bycatch mitigation measures employed.

### **C. Catch & Effort Data to be Collected for Purse Seine Fishing Activity**

1. Data are to be collected on an un-aggregated (set by set) basis for all observed purse-seine sets.
2. The following data are to be collected for each observed purse-seine set:
  - a) Total search time before this set, since the last set.
  - b) Set start date.
  - c) Set start time (the time gear starts fishing).
  - d) Set end date.
  - e) Set end time (the time haul back starts).
  - f) Set start position (Lat/Lon, 1 minute resolution).
  - g) Net length (m).
  - h) Net height (m).
  - i) Net mesh size (stretched mesh, mm) and mesh type (diamond, square, etc)
  - j) Intended target species.
  - k) Type of school and association (FAD, debris, seabirds, surface, sonar target).

- l) Catch of all species retained on board, split by species, in live weight (to the nearest kg).
- m) Record of the numbers by species of all marine mammals, seabirds or reptiles caught.
- n) Estimate of the amount (weight or volume) of remaining marine resources discards, split to the lowest known taxon, unless the species is less than 100 kg per set.
- o) Record any bycatch mitigation measures employed.

#### **D. Catch & Effort Data to be Collected for Bottom Long Line Fishing Activity**

1. Data are to be collected on an un-aggregated (set by set) basis for all observed longline sets.
2. The following fields of data are to be collected for each set:
  - a) Set start date.
  - b) Set start time.
  - c) Set end date.
  - d) Set end time.
  - e) Set start position (Lat/Lon, 1 minute resolution).
  - f) Set end position (Lat/Lon, 1 minute resolution).
  - g) Intended target species.
  - h) Total length of longline set (km).
  - i) Number of hooks for the set.
  - j) Bottom (seabed) depth at start of set.
  - k) Number of hooks actually observed during the haul.
  - l) Catch of all species retained on board, split by species, in live weight (to the nearest kg).
  - m) Record of the numbers by species of all marine mammals, seabirds or reptiles caught.
  - n) Record of sensitive benthic species in the catch, particularly vulnerable or habitat-forming species such as sponges, sea-fans or corals.
  - o) Estimate of the amount (weight or volume) of remaining marine resources discards, split to the lowest known taxon, unless the species is less than 100 kg per set.
  - p) Record any bycatch mitigation measures employed.

#### **E. Length-Frequency Data to Be Collected**

1. Representative and randomly distributed length-frequency data are to be collected for the target species and, time permitting, for other main by-catch species. Length data should be collected and recorded at the most precise level appropriate for the species (cm or mm and whether to the nearest unit or unit below) and the type of measurement used (total length, fork length, or standard length) should also be

recorded. If possible, total weight of length-frequency samples should be recorded, or estimated and the method of estimation recorded, and observers may be required to also determine sex of measured fish to generate length-frequency data stratified by sex.

#### **F. Biological Sampling to be Conducted**

1. The following biological data should be collected for representative samples of the main target species and, time permitting, for other main by-catch species contributing to the catch:
  - a) Species
  - b) Length (mm or cm and whether to the nearest unit or unit below), with record of the type of length measurement used. Measurement precision and type should be determined on a species by species basis.
  - c) Sex (male, female, immature, unsexed)
  - d) Maturity stage
2. Observers should collect tissue, otolith and/or stomach samples according to pre-determined specific research programmes implemented by the Scientific Working Group or other national scientific research.
3. Observers are to be briefed and provided with written length-frequency and biological sampling protocols, where appropriate, and priorities for the above sampling specific to each observer trip.

#### **G. Data to be Collected on Incidental Captures of Protected Species**

1. The following data are to be collected for all protected species<sup>1</sup> caught in fishing operations:
  - a) Species (identified taxonomically as far as possible, or accompanied by photographs if identification is difficult) and size.
  - b) Count of the number caught per tow or set.
  - c) Life status (vigorous, alive, lethargic, dead) upon release.
  - d) If dead, then collect adequate information or samples for onshore identification in accordance with pre-determined sampling protocols. Where this is not possible, observers may be required to collect sub-samples of identifying parts, as specified in biological sampling protocols.

#### **H. Detection of Fishing in Association with Vulnerable Marine Ecosystems**

---

<sup>1</sup> For the purposes of this document protected species include seabirds, mammals, and reptiles (turtles).

1. For each observed trawl, the following data are to be collected for all sensitive benthic species caught, particularly vulnerable or habitat-forming species such as sponges, sea fans, or corals:
  - a) Species (identified taxonomically as far as possible, or accompanied by a photograph where identification is difficult).
  - b) An estimate of the quantity (weight (kg) or volume (m<sup>3</sup>)) of each listed benthic species caught in the tow.
  - c) An overall estimate of the total quantity (weight (kg) or volume (m<sup>3</sup>)) of all invertebrate benthic species caught in the tow.
  - d) Where possible, and particularly for new or scarce benthic species which do not appear in ID guides, whole samples should be collected and suitably preserved for identification on shore.

### **I. Data to be Collected for all Tag Recoveries**

1. The following data are to be collected for all recovered fish, seabird, mammal or reptile tags if the organism is dead, to be retained, or alive:
  - a) Observer name.
  - b) Vessel name.
  - c) Vessel call sign.
  - d) Vessel flag.
  - e) Collect, label (with all details below) and store the actual tags for later return to the tagging agency.
  - f) Species from which tag recovered.
  - g) Tag colour and type (spaghetti, archival).
  - h) Tag numbers (The tag number is to be provided for all tags when multiple tags were attached to one fish. If only one tag was recorded, a statement is required that specifies whether or not the other tag was missing) If the organism is alive and to be released, tag information should be collected in accordance with pre-determined sampling protocols.
  - i) Date and time of capture (UTC).
  - j) Location of capture (Lat/Lon, to the nearest 1 minute)
  - k) Animal length / size (cm or mm and whether to the nearest unit or unit below) with description of what measurement was taken (such as total length, fork length, etc).
  - l) Sex (F=female, M=male, I=indeterminate, D=not examined)
  - m) Whether the tags were found during a period of fishing that was being observed (Y/N)
  - n) Reward information (e.g. name and address where to send reward)

(It is recognised that some of the data recorded here duplicates data that already exists in the previous categories of information. This is necessary because tag recovery information may be sent separately to other observer data.)

## J. Hierarchies for Observer Data Collection

1. Recognising that observers may not be able to collect all of the data described in these standards on each trip, a hierarchy of priorities is to be implemented for collection of observer data. Trip-specific or programme-specific observer task priorities may be developed in response to specific research programme requirements, in which case such priorities should be followed by observers.
2. In the absence of trip- or programme-specific priorities, the following generalised priorities should be followed by observers:
  - a) Fishing Operation Information
    - All vessel and tow / set / effort information.
  - b) Reporting of Catches
    - Record time, weight of catch sampled versus total catch or effort (e.g. number of hooks), and total numbers of each species caught.
    - Identification and counts of protected species, sensitive benthic species and vulnerable species.
    - Record numbers or weights of each species retained or discarded.
    - Record instances of depredation, where appropriate.
  - c) Biological Sampling
    - Check for presence of tags.
    - Length-frequency data for target species.
    - Basic biological data (sex, maturity) for target species.
    - Length-frequency data for main by-catch species.
    - Otoliths (and stomach samples, if being collected) for target species.
    - Basic biological data for by-catch species.
    - Biological samples of by-catch species (if being collected)
    - Take photos
3. The reporting of catches and biological sampling procedures should be prioritised among species groups as follows:

<b>Species</b>	<b>Priority (1 highest)</b>
Primary target species (such as jack mackerel, for pelagic fisheries, and orange roughy for demersal fisheries)	1
Associated threatened or protected species	2
Other species typically within top 5 in the fishery (such as blue mackerel for pelagic fisheries, and oreos and alphonsino for demersal fisheries)	3
All other species	4

The allocation of observer effort among these activities will depend on the type of operation and setting. The size of sub-samples relative to unobserved quantities (e.g. number of hooks examined for species composition relative to the number of hooks set) should be explicitly recorded under the guidance of member country observer programmes.

#### **K. Coding Specifications to be Used for Recording Observer Data**

1. Unless otherwise specified for specific data types, observer data are to be provided in accordance with the same coding specifications as specified in Annex 5 of the SPRFMO Data Standards.
2. Coordinated Universal Time (UTC) is to be used to describe times.
3. Degrees and minutes are to be used to describe locations.
4. The following coding schemes are to be used:
  - a) Species are to be described using the FAO 3 letter species codes.
  - b) Fishing methods are to be described using the International Standard Classification of Fishing Gear (ISSCFG - 29 July 1980) codes.
  - c) Types of fishing vessel are to be described using the International Standard Classification of Fishery Vessels (ISSCFV) codes.
5. Metric units of measure are to be used, specifically:
  - a) Kilograms are to be used to describe catch weight.
  - b) Metres are to be used to describe height, width, depth, beam or length.
  - c) Cubic metres are to be used to describe volume.
  - d) Kilowatts are to be used to describe engine power.

## **Standards for the collection, reporting, verification and exchange of data for drop line and dahn line fishing**

With regard to the fishing vessels flying their flag and fishing for non-highly migratory fishery resources in the Area –

### **1. Data on fishing activities and the impacts of fishing**

Participants are to develop, implement and improve systems to:

(a) Ensure that data on fishing activities are collected from vessels according to the operational characteristics of each fishing method.

(i) For drop line and dahn line fishing, Participants are to collect the data described in annex 1;

(b) Ensure that data to assess the impacts of fishing on non-target and associated or dependant species are collected from vessels.

(c) Compile data on fishing activities and the impacts of fishing and provide these in a timely manner to the interim Secretariat of the proposed South Pacific Regional Fisheries Management Organisation (SPRFMO). Such data are to be provided in sufficient detail to facilitate effective stock assessment. Participants will provide by the 30th September, their previous (January to December) year's data on fishing activities and the impacts of fishing.

## Annex 1

### Standard for drop / dahn line fishing activity

1. Data are to be collected on an un-aggregated (series by series) basis
2. The following fields of data are to be collected:
  - a. Vessel flag
  - b. Vessel name
  - c. Vessel call sign
  - d. Registration number of vessel
  - e. Set start date
  - f. Set start time
  - g. Set end date
  - h. Set end time
  - i. Start of set position (1/10<sup>th</sup> degree resolution)
  - j. End of set position (1/10<sup>th</sup> degree resolution)
  - k. Intended target species
  - l. Depth at start of set
  - m. Depth at end of set
  - n. Total number of hooks in the set
  - o. Number of hooks lost
  - p. Type of hooks used
  - q. Type of leader used
  - r. Total number of line lifts in the set
  - s. Type of bait used
  - t. Catch retained by species in live weight
  - u. An estimate of the amount of living marine resources discarded by species if possible
  - v. Were any marine mammals, seabirds or reptiles caught (Yes/No)

**PROPOSAL BY CHILE**  
**GUAYAQUIL MARZO 2008**

**STANDARDS FOR TRANSHIPMENT ACTIVITY**

Considering the provisions set forth in the Draft of the Convention on the Conservation and Management of High Seas Fishery Resources in the South Pacific Ocean, in its 3<sup>rd</sup> Revision version, Chile submits the following proposal to establish standards for the collection of transshipment data, bearing in mind that the physical examination of such information is indispensable.

PROPOSAL:

The data related to any transshipment must be collected at sea and at the time of landing in the port of a State Party.

*I*     TRANSHIPMENT PHASE

1. Data of the authority that designates the observer to supervise the transshipment operation
  - Name of Observer
  - Authority
  - Address
  - Telephone/FAX
  - E-mail
  
2. Data of the fishing vessel that performs transshipment and capture/ products data

Vessel Description

  - Name of fishing vessel
  - Flag State
  - Port of origin and registration number
  - Call signal
  - IMO N°/Lloyd (where issued)
  - Number of the fishing license
  
3. Data of the origin of products that are being transferred
  - Fishing period of catches reported in this document
  - Fishing Area (Area, sub-area or FAO statistical division where catch was obtained and indicate if it was extracted within the EEZ or in the high seas)
  
4. Description of transshipment, by species

- Name of species
  - Type (Chilled, HG, Whole, etc)
  - Estimated fishing weight/ transhipped products
5. Data of vessel that receives the cargo (vessel in which products is stowed)
- Name of vessel
  - Call signal
  - Flag State
  - IMO N°/Lloyd
  - Port of destination of cargo (where to be landed): Port Name, City and Country
  - Estimated date of arrival to port
  - Estimated date of landing
6. Transhipment information:
- Name of the Captain of the fishing vessel
  - Name of the Captain of the vessel receiving the cargo
  - Date of transhipment
  - Position of transhipment (Geographical coordinates )

## *II. LANDING PHASE AT THE PORT OF A STATE PARTY*

1. Data of the certifying Authority in the Port State
- Name
  - Address
  - Telephone/ FAX
  - E-mail
2. Data of the reefer vessel landing the products
- Name of vessel
  - Call Signal
  - Flag State
  - IMO N°/Lloyd
  - Date of arrival at port
3. Landing information
- Date
  - Name of Port
  - City where port is located
4. Description of landing products, by species
- Name of species
  - Type (Chilled, HG, Whole, etc)
  - Proven weight
  - Description of type cartons

5. Destination of landed cargo
  - If intended for processing in the Port State: Identification of Processing Plant
  - If in transit towards another country: Name of State, means of exportation (air, land, sea), estimated date of departure from the Port State.