



# FISHERY ASSESSMENT REPORT

## IFFO GLOBAL STANDARD FOR RESPONSIBLE SUPPLY OF FISHMEAL AND FISH OIL



|                        |   |
|------------------------|---|
| <b>FISHERY:</b>        | <b>Peruvian Anchovy – Minor assessment 2012</b>           |
| <b>LOCATION:</b>       | <b>Northern Border Of The EEZ To 16<sup>o</sup> South</b> |
| <b>DATE OF REPORT:</b> | <b>20<sup>th</sup> April 2012</b>                         |
| <b>ASSESSOR:</b>       | <b>Sam Peacock</b>  |

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue No; 2; Issue Date; Nov 09

Report Ref:

CCM Code:

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**

| 1. Application Details and Summary of the Assessment Outcome |                |   |  |
|--|----------------|---|--|
| Name:  |                |   |  |
| Address:   |                |   |  |
| Country:   |                | Zip:  |  |
| Tel. No.   |                | Fax. No.  |  |
| Email address:   |                | Applicant Code                                      |  |
| Key Contact:   |                | Title:  |  |
|  |                |   |  |
| Certification Body Details                                   |                |   |  |
| Name of Certification Body:                                  |                | Global Trust  |  |
| Assessor Name:   | Peer Reviewer: | Assessment Days:                                    | Initial/Surveillance/Re-certification: |
| Sam Peacock  | Mike Platt     | 1   | Surveillance                           |
| Assessment Period  | March 2012     |   |  |
|  |                |   |  |
| Scope Details  |                |   |  |
| 1. Scope of Assessment:                                      |                | IFFO RFS standard                                   |  |
| 2. Fishery   |                | Peruvian anchovy                                    |  |
| 3. Fishery Location  |                | Northern Border Of The EEZ TO 16 <sup>0</sup> South |  |
| 4. Fishery Method  |                | Mid-water Otter trawls and Purse Seine nets         |  |
| Outcome of Assessment  |                |   |  |
| 5. Overall Fishery Compliance Rating                         |                | HIGH  |  |
| 6. Sub Components of Low Compliance                          |                | NONE  |  |
| 7. Information deficiency                                    |                | NONE  |  |
| 8. Peer Review Evaluation                                    |                | Agree   |  |
| 9. Recommendation  |                | MAINTAIN APPROVAL STATUS                            |  |

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue No; 2; Issue Date; Nov 09

Report Ref:

CCM Code:

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**

|  |
|--|
| <b>2. Quality of Information</b>                         |
| Good; no major changes from previous surveillance (2011) |

|                                     |
|-------------------------------------|
| <b>3. Compliance Level Achieved</b> |
| HIGH                                |
| <b>Recommendation</b>               |
| <b>Maintain approval status</b>     |

|  |
|--|
| <b>4. Guidance for On-site Assessment</b>  |
| <b>Based on High Compliance Findings</b>   |
|  |
|  |
| <b>Based on Medium Compliance Findings</b> |
|  |
| <b>Key Stakeholders of the Fishery</b>     |
|  |

|   |
|---|
| <b>5. Assessment Determination</b>  |
| <p>There have been no major changes in the management regime of the Peruvian anchovy fishery, which continues to utilise up-to-date survey and landings data to inform management measures. The legal and administrative framework, including enforcement and sanctions, remains effective. Quotas continue to be set to reflect the science, which aims to maintain a defined minimum spawning biomass. The continuing lack of information on the conservation of the Peruvian diving petrel is the reason for the fishery’s only medium compliance score.</p> |
| <b>HIGH COMPLIANCE</b>  |
| A1, A2, A3, B1, B2, C1, D1, D2, E1, E2  |
| <b>MEDIUM COMPLIANCE</b>  |
| D3  |

| SUMMARY OF LEVEL OF COMPLIANCE  |   |   |                        |                     |                 |
|---|---|---|------------------------|---------------------|-----------------|
|   | The Management Framework and Procedures | Stock assessment procedures and management advice | Precautionary approach | Management measures | Implementation  |
| legal and administrative basis  | High Compliance                         | Low Compliance                                    | Low Compliance         | Low Compliance      | Low Compliance  |
| Fisheries management should be concerned with the whole stock unit  | High Compliance                         | Low Compliance                                    | Low Compliance         | Low Compliance      | Low Compliance  |
| Management actions should be scientifically based   | High Compliance                         | Low Compliance                                    | Low Compliance         | Low Compliance      | Low Compliance  |
| Research in support of fisheries conservation and management should exist   | Low Compliance                          | High Compliance                                   | Low Compliance         | Low Compliance      | Low Compliance  |
| Best scientific evidence available should be taken into account when designing conservation and management measures   | Low Compliance                          | High Compliance                                   | Low Compliance         | Low Compliance      | Low Compliance  |
| The precautionary approach is applied in the formulation of management plans  | Low Compliance                          | Low Compliance                                    | High Compliance        | Low Compliance      | Low Compliance  |
| The level of fishing permitted should be set according to management advice given by research organisations   | Low Compliance                          | Low Compliance                                    | Low Compliance         | High Compliance     | Low Compliance  |
| Where excess fishing capacity exist, mechanisms should be in established to reduced capacity  | Low Compliance                          | Low Compliance                                    | Low Compliance         | High Compliance     | Low Compliance  |
| Management measures should ensure that fishing gear and fishing practices do not have a significant impact on non-target species and the physical environment | Low Compliance                          | Low Compliance                                    | Low Compliance         | Medium Compliance   | Low Compliance  |
| A management system for fisheries control and enforcement should be established   | Low Compliance                          | Low Compliance                                    | Low Compliance         | Low Compliance      | High Compliance |
| A framework for sanctions of violation of laws and regulations should be efficiently exists   | Low Compliance                          | Low Compliance                                    | Low Compliance         | Low Compliance      | High Compliance |

**KEY:**                      Low Compliance                                Medium Compliance                                High Compliance:                          

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

|                                 |             |           |
|---------------------------------|-------------|-----------|
| Issue No: 2; Issue Date; Nov 09 | Report Ref: | CCM Code: |
|---------------------------------|-------------|-----------|

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**

**6. Rationale of the Assessment Outcome**

**a. The Management Framework and Procedure**

| LEVEL OF COMPLIANCE |  |   | References | Rating |
|---------------------|--|---|------------|--------|
|                     |  | a.i. The management of the fishery must include a legal and administrative basis for the implementation of measures and controls to support the conservation of the fishery.  |            |        |
| LOW                 |  | <p><b>Determination: <i>Peruvian fisheries management continues to be supported by robust legal and administrative foundations. There have been no major changes since the previous surveillance report.</i></b></p> <p>Peruvian fisheries are managed by the Ministry of Production, PRODUCE, and the Vice-Ministry of Fisheries. PRODUCE establishes the regulatory framework for production and processing of fishery and industry sub-sectors. PRODUCE also publishes Ministerial Resolutions dictating annual quotas and makes other ongoing management decisions based on data and advice provided by the Marine Research Institute of Peru, IMARPE.</p> <p>For more details please refer to the original fishery assessment.</p>   | R2, R3     | HIGH   |
| MEDIUM              |  |   |            |        |
| HIGH                |  |   |            |        |
|                     |  | a.ii. Fisheries management should be concerned with the whole stock unit over its entire area of distribution and take into account fishery removals and the biology of the species   | References | Rating |
| LOW                 |  | <p><b>Determination: <i>There has been no change in the scientific understanding of the distribution of this stock, nor has there been any change in the management unit since the previous surveillance report.</i></b></p> <p>IMARPE, based on stock assessment outputs, propose a management strategy for the sustainable exploitation of the marine resource. The stock assessment considers the entire stock removals by fishing and the biology of the species to provide advice for management.</p> <p>IMARPE continues to co-operate with the Chilean Fishery Research and Development Institute, IFOP, to monitor the Southern fishery that straddles the Peru-Chile border. Since this anchovy stock is shared by both countries, a bilateral scientific group involving scientists from both nations was formed in the early</p> | R2, R3     | HIGH   |
| MEDIUM              |  |   |            |        |
| HIGH                |  |   |            |        |

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue No: 2; Issue Date; Nov 09

Report Ref:

CCM Code:

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**

|        |  |            |        |
|--------|--|------------|--------|
|        | 1990's. This group meets at least once a year to conduct stock assessments evaluation with information from both countries.<br>For more information see the original fishery assessment.   |            |        |
|        | a.iii .Management actions should be based on long-term conservation objectives   | References | Rating |
| LOW    | <p><b>Determination: <i>There have been no significant changes in the long-term management objectives of the fishery since the time of the last surveillance report.</i></b></p> <p>The management policy of PRODUCE contains clear long-term management objectives, which are focused on the conservation and sustainable use of fisheries resources. Peru is also an active member of the Marine Resource Conservation Working group, which is guided by an additional set of long-term objectives. For more details on the long-term objectives of the management of this stock, please refer to the original fishery assessment.</p> | R1, R2     | HIGH   |
| MEDIUM |  |            |        |
| HIGH   |  |            |        |

**b. Stock Assessment Procedures and Management Advice**

|                     |   |            |        |
|---------------------|---|------------|--------|
| LEVEL OF COMPLIANCE | bi. Research in support of fisheries conservation and management should exist.  | References | Rating |
| LOW                 | <p><b>Determination: <i>The Marine Research Institute of Peru continues to carry out research, including annual acoustic surveys, to support the management of the anchovy fishery.</i></b></p> <p>In the IMARPE assessment published in March 2011, based on survey information and projections based on mathematical models of population dynamics and historical anchovy spatial behaviour, IMARPE estimated that the biomass of anchovy in the north-central region was around 10.5 million tonnes.</p> | R1, R4     | HIGH   |
| MEDIUM              |   |            |        |
| HIGH                |   |            |        |

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

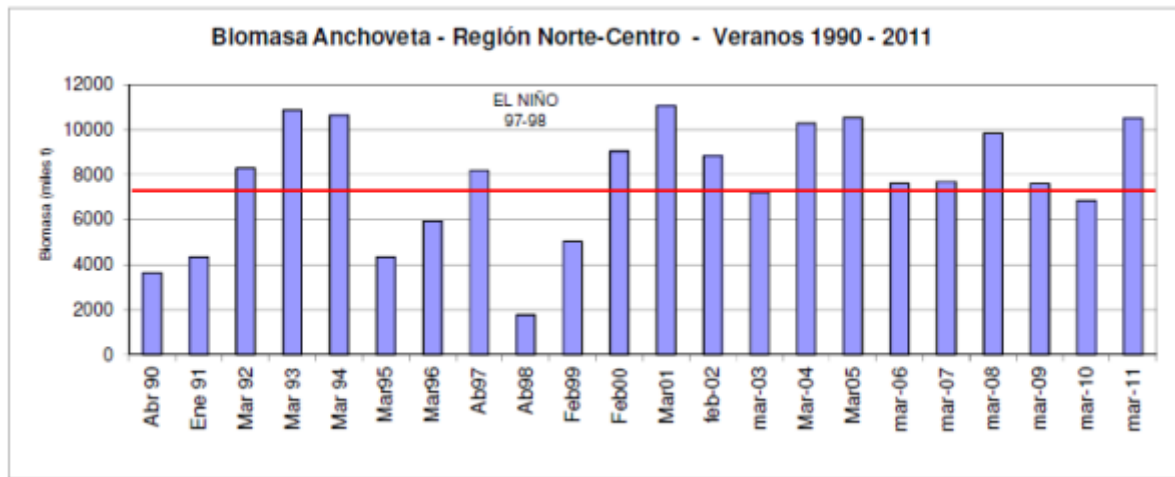
Issue No; 2; Issue Date; Nov 09

Report Ref:

CCM Code:

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**





Historical estimates of the biomass of Peruvian Anchovy in the Northern region from 1990 – 2011. The red line represents the average biomass over the illustrated period. From the IMARPE anchovy assessment report, March 2011.

For the 2011 assessment, IMARPE used a model of Population Balance, based on lengths, to project changes in biomass. To generate a quota recommendation, total biomass was estimated for 1 April 2011, and then changes in biomass modelled up to the following spawning season (beginning in August 2011). Quota recommendations attempted to ensure that by that date spawning biomass remained above 5 million tons. IMARPE applied a moderate exploitation rate of about 0.35 to 0.38 at most, to ensure the sustainability of the stock, assuming a natural mortality rate between 0.8 - 1.0 year, which includes consideration of the ecosystem impacts of the fishery.

|                     |  |            |        |
|---------------------|--|------------|--------|
| LEVEL OF COMPLIANCE | b.ii Best scientific evidence available should be taken into account when designing conservation and management measures | References | Rating |
| LOW                 | <b>Determination: <i>There have been no significant changes in the process used to design conservation</i></b>           | R2, R3     | HIGH   |

|        |  |   |  |  |
|--------|--|---|--|--|
| MEDIUM |  | <b>and management measures since the time of the previous surveillance report.</b>  |  |  |
| HIGH   |  | IMARPE produces the scientific advice for management. Fishery dependent (landings) and independent (research surveys) data is used to assess the status of the stock. Stock indices and an estimation of biomass are produced and the scientific advice of the stock status is used as a basis for the management of the fishery. For more details on the management measure development process please refer to the original fishery assessment. |  |  |

**c. The Precautionary Approach**

| LEVEL OF COMPLIANCE |  |   | References | Rating |
|---------------------|--|---|------------|--------|
| LOW                 |  | <b>Determination: <i>There have been no significant changes in the application of the precautionary approach since the time of the previous surveillance report.</i></b>  | R2, R3     | HIGH   |
| MEDIUM              |  | The precautionary approach is applied in the formulation of management plans and all major uncertainties are considered. Stock assessment is carried out to produce biological reference points through the use of Virtual Population Analysis modelling, which takes into consideration recruitment, mortality, growth and fecundity. Limit and Target reference points are estimated in an appropriate manner to minimize the risk of recruitment overfishing. For more detail on the reference points utilised by IMARPE, please refer to the original fishery assessment. |            |        |
| HIGH                |  |   |            |        |

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue No: 2; Issue Date; Nov 09

Report Ref:

CCM Code:

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**

**d. Management Measures**

|                     |  |  |            |        |
|---------------------|--|--|------------|--------|
| LEVEL OF COMPLIANCE |  | d.i The level of fishing permitted should be set according to management advice given by research organisations.   | References | Rating |
| LOW                 |  | <p><b>Determination: <i>The level of fishing continues to be set according to the advice provided by IMARPE.</i></b></p> <p>The TAC for the April – June 2011 season was set at 3.675 million tonnes, reflecting the IMARPE advice for that season of 3.5 – 3.8 million tonnes. The October '11 – January '12 season TAC was set at 2.5 million tonnes, although the IMARPE recommendation for this season is currently unavailable.</p>   | R1, R4     |        |
| MEDIUM              |  |  |            |        |
| HIGH                |  |  |            |        |
| LEVEL OF COMPLIANCE |  | d.ii Where excess fishing capacity exist, mechanisms should be in established to reduced capacity to allow for the recovery of the stock to sustainable levels.  | References | Rating |
| LOW                 |  | <p><b>Determination: <i>There have been no significant changes in the mechanisms used to regulate fishing capacity since the time of the previous surveillance report.</i></b></p> <p>Fishing Capacity is controlled in the form of Quotas and quotas are assigned in relation to the status of the stock. The Peruvian anchovy stock abundance is driven by the high and unpredictable variability of the Humboldt Current Large Marine Ecosystem (one of the major upwelling systems of the world, supporting an extraordinary abundance of marine life). As a result, regular acoustic surveys are performed on the stock at intervals of 2 to 4 times per year and quotas are allocated according to abundance estimates. If the status of the stock is determined at risk by IMARPE, then PRODUCE has the authority to reduce the total removal to allow for the recovery of the stock. For more details on the mechanisms in place to regulate</p> | R2, R3     | HIGH   |
| MEDIUM              |  |  |            |        |
| HIGH                |  |  |            |        |

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue No; 2; Issue Date; Nov 09

Report Ref:

CCM Code:

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**

|                     |  |            |        |
|---------------------|--|------------|--------|
|                     | fishing capacity, please refer to the original assessment report.  |            |        |
| LEVEL OF COMPLIANCE | d.iii Management measures should ensure that fishing gear and fishing practices do not have a significant impact on non-target species and the physical environment.   | References | Rating |
| LOW                 | <p><b>Determination: <i>The information provided to the assessment team indicated no significant changes in the extent to which management measures protect non-target species and the physical environment, therefore a medium compliance rating continues to be awarded.</i></b></p> <p>In the initial assessment of this fishery, it was considered that sufficient management measures were in place to minimise the impact of the fishing methods and fishing practices on non-target species and the physical environment; additionally it was considered that the impact of fishing gear on non-target species and the physical environment were factored in during the formulation of management plans. However, this section was awarded medium compliance during the initial assessment due to the lack of information available on the conservation of the Peruvian Diving Petrel, and the impacts of the fishery upon this species. There have been no significant changes in the management measures in place to limit the impacts of this fishery on non-target species and the physical environment, but additionally no new information or measures have been forthcoming in relation to the Peruvian Diving Petrel, and so the assessment team considers it appropriate to maintain a score of medium compliance in this section.</p> <p>For more information on the management measures in place to minimise non-target species and physical environment impacts, please refer to the initial assessment and previous surveillance report.</p> | R2, R3     | MEDIUM |
| MEDIUM              |  |            |        |
| HIGH                |  |            |        |

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue No: 2; Issue Date: Nov 09

Report Ref:

CCM Code:

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**

**e. Implementation**

| LEVEL OF COMPLIANCE |  | e.i There should be a framework for sanctions of violation of Laws and regulations.   | References | Rating |
|---------------------|--|---|------------|--------|
| LOW                 |  | <p><b>Determination: <i>There have been no significant changes in the legal framework for the management of this fishery.</i></b></p> <p>Peruvian fisheries management is based on a robust legal framework of laws and regulations. Regulations include:</p> <ul style="list-style-type: none"> <li>• Ley 25977 Ley General de Pesca (Artículos del 76° al 83°)</li> <li>• Decreto Supremo 012-2001-PE Reglamento de la Ley General de Pesca (Artículos del 126° al 150°)</li> <li>• Decreto Supremo 016-2007-PRODUCE Reglamento de Inspecciones y Sanciones Pesqueras Acuícolas</li> </ul> <p>More details are available in the initial approval report.</p>            | R2, R3     | HIGH   |
| MEDIUM              |  |   |            |        |
| HIGH                |  |   |            |        |
| LEVEL OF COMPLIANCE |  | e.ii A management system for fisheries control and enforcement should be established.   | References | Rating |
| LOW                 |  | <p><b>Determination: <i>There have been no significant changes in the Peruvian fisheries enforcement system since the time of the previous surveillance report.</i></b></p> <p>Peruvian fisheries managers have in place an effective management system for fisheries control and enforcement. Two independent certifying companies (SGS and CERPER) are responsible for monitoring of landings. In addition, IMARPE and PRODUCE perform their own monitoring and control which includes a Vessel Monitoring System (SISESAT) which operates by Satellite Beacons installed aboard all fishing vessels. For more details please refer to the full fishery assessment.</p> | R2, R3     | HIGH   |
| MEDIUM              |  |   |            |        |
| HIGH                |  |   |            |        |

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue No: 2; Issue Date; Nov 09

Report Ref:

CCM Code:

**This report shall not be reproduced in full or in part without the permission of Global Trust Certification Ltd.**

## References

R1: IMARPE anchovy assessment report, March 2011:

[http://www.imarpe.pe/imarpe/archivos/reportes/imarpe\\_infor\\_inf\\_ejec\\_cr\\_1102\\_210311\\_tmp.pdf](http://www.imarpe.pe/imarpe/archivos/reportes/imarpe_infor_inf_ejec_cr_1102_210311_tmp.pdf)

R2: Initial IFFO RFS Peruvian anchovy fishery assessment, Global Trust Certification, 2009:

<http://www.iffonet.net/downloads/IFFO%20RS/Whole%20Fish/Peru%20-%20Anchovy.pdf>

R3: IFFO RFS Peruvian anchovy fishery surveillance report, Global Trust Certification, 2011:

[http://www.iffonet.net/downloads/IFFO%20RS/Whole%20Fish/Peruvian\\_Anchovy\\_surveillance\\_2011\\_FINAL.pdf](http://www.iffonet.net/downloads/IFFO%20RS/Whole%20Fish/Peruvian_Anchovy_surveillance_2011_FINAL.pdf)

R4: IMARPE anchovy report, winter 2010/11 season:

[http://www.imarpe.pe/imarpe/archivos/informes/imarpe\\_segpes\\_inf\\_anch\\_reg\\_norcen11.pdf](http://www.imarpe.pe/imarpe/archivos/informes/imarpe_segpes_inf_anch_reg_norcen11.pdf)

Global Trust Certification Ltd, Rivercourt Business Centre, Riverlane, Dundalk, Co. Louth, Ireland Tel: 042 932 0912 Fax 042 938 6864

Issue: 1 .0

Report Ref:

CC Code:

**This report shall not be reproduced in part without the permission of Global Trust Certification Ltd.**