



**ARGENTINE ANCHOVY (*Engraulis anchoita*)**  
**Management Unit: Bonaerense Industrial Semi-pelagic**  
**Mid-water Trawl Net Fishery in the Area**  
**of CTMFM (Comisión Técnica Mixta del Frente Marítimo) and**  
**the Area North of the 41° S in the Argentine Sea**

**MSC Certification**  
**Certification Body: Organización Internacional Agropecuaria (OIA)**

**Notification of Proposed Peer Reviewers**

Potential Peer Reviewers for reports on the Argentine Anchovy Fishery have been proposed. They have been approached on the basis of their experience of one or more of the following: the fishery under assessment, fishery management, stock assessment issues and relevant ecosystem interactions.

The names and brief details of each reviewer are provided below. All stakeholders (including the applicant fishery) are now given the opportunity to submit written comments and/or objections to the scientists nominated as potential peer reviewers. Any specific objections should be supported with an explanation of the reason for the objection.

Comments should be sent to Dr. Leszek Bruno Prenski, **before April 30<sup>th</sup>, 2011**, Organización Internacional Agropecuaria as follows:

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## **Dr. MIGUEL BERNAL**

Actually working in the changes in the pelagic fish community; species composition, biomass fluctuations and spatial migration, Dr. Miguel Bernal is a permanent position wide experienced marine scientist from the Spanish Oceanographic Institute (IEO), where have been working for the last 10 years.

With a PhD degree in Marine Science, has participated in several researches about anchovies, such as “Development of a climate-to-fish-to-fishers model: proof-of-principle using long-term population dynamics of anchovies and sardines in the California Current” (2010), “Characterization of stage-classified biological processes using multinomial models: a case study of anchovy (*Engraulis encrasicolus*) eggs in the Bay of Biscay” (2007), “The DEPM Estimation of Spawning-Stock Biomass for Sardine and Anchovy. ICES Cooperative Research Report” (2004), and Workshops on the estimation of DEPM-based biomass for the following species sardine and anchovy (Cadiz, Spain), anchovy (Iquique, Chile), and jack mackerel (Concepción, Chile).

On the last 15 years, he has also obtained a MSc in statistics from the University of St. Andrews, Scotland, has attended as a Visitor Scientist in the Institute of Marine and Coastal Sciences, and participated in EU project “Shelf edge advection, mortality and recruitment” SEAMAR, (IEO) as well as a short research contract (1 month) EU project Evaluation and development of spatio-temporal models and survey designs for effective assessment of mackerel and horse mackerel.

Dr. Bernal is a Project coordinator of the MARIFISH project REPROdUCE: Understanding REcruitment PROcesses Using Coupled bio-physical models of the pelagic Ecosystem, and a participant researcher in the EU projects: “Using environmental variables with improved DEPM methods to consolidate the series of sardine and anchovy estimates” and “Sardine dynamics and stock structure in the North East Atlantic”.

He has also been a ICES candidate to participate in the 4<sup>th</sup> Intergovernmental Panel for Climate Change (IPCC), and chairman at the “ICES expert Working Group on acoustic and egg production estimates of sardine and anchovy in ICES areas VIII and IX”, “study group on the spawning biomass of sardine and anchovy” and “MARIFISH-ICES Joint Workshop on Integrated ecosystem modelling; building our capacity to understand and manage marine ecosystems in a changing world” (2010).

As a reviewer, has worked for the following journals: Progress in Oceanography, Canadian Journal of Fisheries and Aquatic Science, Fisheries oceanography, ICES journal of marine science, Fisheries Research, Scientia Marina. He has also participated as an invited expert to EU Scientific, Technical and Economic Committee for Fisheries (STECF), and a reviewer of the assessment of the South Australian sardine fishery.

## **Eng. MARIANO GUTIÉRREZ TORERO**

With over 20 years as a fishing engineer and with an MSc in Marine Sciences, Mariano Gutierrez Torero is a very well experienced professional regarding to the exploration, monitoring and consulting of the fishing resources and variability analysis, especially concerning to fishing and planktonic acoustic and fishing ecology.

He has been working at the “Peruvian Marine Institute” (IMARPE) since early 80’s, from Fisheries Acoustics Scientific to Fishing Researching General Director, a position that he is currently occupying. He has also been invited as an Assistant Research Scientist to the French Institute for Development (IRD), Assistant Research Scientist at the “Institute for Fishing Development” (IFOP) and at the “Catholic University of Valparaíso” (Chile); participated in over 70 evaluations of fishing resources on board (including over 30 times as the Cruise Chief) and has been the Scientific Coordinator in two Peruvian campaigns to the Antarctica.

Eng. Mariano Gutierrez is associated to many groups, such as the Fisheries Acoustics Science and Technology (FAST-WG), the International Council for the Exploration of the Sea (ICES), Study Group on Fish Avoidance of Research Vessels (SGFAV-ICES), “Eco-Up” research Unity (IRD), the SPACC (Small Pelagic and Climate Change); and has been the Institutional Leader of the Study Group on Shoal at IMAPRE.

Some of his multiple publications include: “Anchovy and Munida spatial-temporal dynamic and interactions of diel cycles of aggregation. In: Proceedings of the 2005 Annual Science Conference”, “Waves of agitation inside anchovy schools observed with multibeam sonar: a way to transmit information in response to predation” (2006), “Alternation in the spatial distribution of sardine and anchovy in the Humboldt Current: effects of climate or behavioural interactions” (2006), “Anchovy and sardine spatial dynamics and regime shifts: new insights from acoustic data in the Humboldt Current ecosystem, Peru, from 1983-2003”, “Ecological niches and areas of overlap of the squat lobster ‘munida’ (*Pleuroncodes monodon*) and anchoveta (*Engraulis ringens*) off Peru” (2007).