



## NOTIFICATION ADDITION TEAM MEMBERSHIP

11<sup>TH</sup> OF APRIL 2018

---

### CHILEAN MUSSEL FISHERY AND SUSPENDED CULTURE TORALLA S.A AND CULTIVOS TORALLA S.A

(CLIENT : TORALLA)

#### MARINE STEWARDSHIP COUNCIL CERTIFICATION CERTIFICATION BODY: BUREAU VERITAS HOLDING

BUREAU VERITAS IBERIA would like to propose a new membership for the CHILEAN MUSSEL FISHERY AND SUSPENDED CULTURE TORALLA S.A AND CULTIVOS TORALLA S.A fishery. We join **Gonzalo Macho** to the team for this fishery surveillance on the basis of his experience detailed below.

Gonzalo Macho holds a BSc (1997) in Marine Sciences, a MSc (2000) in Marine Ecology & Ecosystems Functioning and a PhD (2006) on Barnacles Ecology & Population dynamics from the Univ. of Vigo (Spain). Afterwards he has done postdoctoral research (2008-2015) at the Univ. of Washington (Seattle, USA), CENPAT-CONICET (Puerto Madryn, Argentina) and the Univ. of South Carolina (Columbia, USA). He has a background as a marine ecology and fishery scientist (1998 - ongoing), as a fishery practitioner on shellfish resources (bivalves, echinoderms, crustaceans and algae) for a Fisher's guild and the Regional Fisheries Authority of Galicia, Spain (2007-2008), and as an independent consultant in fisheries & marine ecology (2011 - ongoing). He has published over 20 papers in SCI peer-reviewed journals, another 20 technical reports and has participated in more than 25 national and international scientific projects on population dynamics of shellfish resources (razor clams, cockles, gooseneck barnacle, clams & sea urchins), fisheries management and governance (octopus, razor clams, gooseneck barnacle, scallops, abalones, pelagic and deep-sea fishes in Argentina, Chile, Spain, Portugal and EU), reform of the EU common fisheries policy, marine socio-ecological systems and climate change impacts on marine invertebrates.

He has worked on shellfish stock status since 2007 while hired as a practitioner leading a razor clam fishery assessment project, and has been involved in other assessments of octopus fishery in Madagascar (2017-18) and another razor clam fishery in Spain (2018-20). He has an extensive background on the biology, life cycle and population dynamics of shellfish with a focus on bivalves by being involved since 1999 in many projects (cephalopods (2017-20 & 2017-18), edible stalk barnacles (2017-20, 1999-2002), clams (2015-17 & 2011-15), Razor clams (2017-20, 2010-13 & 2007-10), Sea urchins (2005-08), intertidal invertebrates (2003-06) and cockles (2001-03)), ensuring **he meets qualification and competency criteria for stock assessment & stock biology & ecology.**

Several of the projects mentioned and job background as a practitioner in fisheries management, have dealt with the impact of fisheries and other drivers on the fishery; monitoring of impacts and fauna

associated in shellfish fisheries (2007-08), oil spills impact on marine benthonic invertebrates (2003-06), discards in the razor clam fishery and minimization through changes in the closed season and fishing grounds rotation (2017-20 & 2007-10) and the impact of the stalk barnacle fishery on the rocky ecosystem (2017-20). This ensures **he meets qualification and competency criteria for fishing impacts on aquatic ecosystems.**

He also has experienced since 2007 on fisheries management and governance as a practitioner first (2007-08) and then as a researcher (2008 - to present) and independent consultant (2011 - to present) in several different countries (Spain, Portugal, France, Argentina, Chile, USA, Madagascar...). He has participated in around 10 national and international scientific projects on the management and governance and the social implications, understanding fisheries as socio-ecological systems and applying ecosystem based management frameworks. He is also currently involved in several Fishery Improvement Projects (since 2017) for on swordfish and blue shark Atlantic fishery, the Southwest Madagascar reef octopus fishery and the Andalucian red swamp crayfish fishery. **This ensures he meets qualification and competency criteria for fishery management and operations.**

Gonzalo has worked since 2014 as an assessor on 11 MSC certifications (4 Full Assessments, 3 Annual Surveillances, 1 Peer review and 3 Pre-assessments) within Europe, USA and Latin America since 2015, acting as Team member on P1, 2 and 3 and as peer-reviewer. He has also completed the MSC Fishery Team Leader training on April 2018.

**Macarena G. Silva**  
**Lead Auditor**  
**Tel: +34 647 331 852**  
[macarena.garcia@es.bureauveritas.com](mailto:macarena.garcia@es.bureauveritas.com)