

**Control Union (UK) Limited**

**Jeong Il Corporation Antarctic krill fishery**

**MSC Fishery Announcement**

Control Union (UK) Limited  
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Role	Signature and date
Originator:	H.E. 08/09.2020
Approver:	C.T. 08/09/2020

## Marine Stewardship Council fishery announcement

**Table 1 – Fishery announcement**

<b>1</b>	<b>Fishery name</b>	
	- Jeong Il Corporation Antarctic krill fishery	
<b>2</b>	<b>Assessment number</b>	
	- Initial Assessment	
<b>3</b>	<b>Reduced reassessment (Yes/No)</b>	
	- No (initial assessment)	
<b>4</b>	<b>Statement that the fishery is within scope</b>	
	<p>The CAB confirms that the fishery entering full assessment meets the scope requirements (FCR 7.4) for MSC fishery assessments [FCR 7.8.3.1]. The CAB further confirms the following:</p> <ul style="list-style-type: none"> <li>- The fishery is within scope of the MSC standard, i.e. it does not operate under a controversial unilateral exemption to an international agreement, use destructive fishing practices, target amphibians, birds, reptiles or mammals and is not overwhelmed by dispute;</li> <li>- The CAB has reviewed available assessment reports and other information. No pre-assessment was conducted for this fishery;</li> <li>- The fishery has not failed an assessment within the last two years;</li> <li>- IPI stocks are caught – see IPI announcement;</li> <li>- The fishery is not enhanced;</li> <li>- The fishery is not based on an introduced species; and</li> <li>- The fishery does not include an entity that has been successfully prosecuted for violations against forced labour laws.</li> </ul>	
<b>5</b>	<b>Unit(s) of Assessment - UoA(s)</b>	
	Species	Antarctic krill ( <i>Euphausia superba</i> )
	Stock	Subarea 48
	Geographical range of fishery	Antarctic waters within sub convention area 48 of the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR)*
	Harvest method / gear	Stern Trawl
	Client group	Jeong Il Corporation, Seoul

	<table border="1"> <tr> <td><b>Other eligible fishers</b></td><td>None</td></tr> </table>	<b>Other eligible fishers</b>	None	
<b>Other eligible fishers</b>	None			
<b>6</b>	<b>Certificate sharing statement</b>			
	- N/A			
<b>7</b>	<b>Name of proposed team leader</b>			
<b>i</b>	<p>- <b>Henry Ernst</b></p> <p>Henry obtained a MSci in marine biology from the University of Southampton. He has a broad background in marine research including inshore fisheries, functional marine ecology and aquaculture research. Prior to joining CU UK he was engaged in benthic invertebrate identification and biomass work with the National Oceanographic Centre, Southampton, United Kingdom. Henry has passed his team leader training course, undertaken three MSC surveillance audits as a team member and is a qualified ISO lead auditor. He has participated in the reassessment of the SARPC toothfish fishery, surveillance audits of the Compagnie des Pêches Saint Malo and Euronor cod and haddock and Scapeche, Euronor and Compagnie des Pêches de St Malo saithe. Henry has also undertaken several pre-assessments for CU UK in French-speaking countries. He has passed the traceability module of the online training as well as the MSC Team Leader online training, allowing him to meet competency criterion 6. in Table PC3. He therefore meets the team leader qualifications.</p> <p>Henry is also fluent in French, the language spoken by the fishery and stakeholders. This, combined with the aforementioned assignments with French fisheries meet criterion 5. of Table PC3.</p> <p>Henry has completed the required Fishery Team Leader MSC training modules for the new V2.01 Fisheries Certification Requirements.</p>			
<b>ii</b>	- No conflict of interest has been identified for this fishery			
<b>8</b>	<b>Name(s) of proposed team members</b>			
<b>i</b>	<p>- <b>Dr. Julian Addison – Principle 1 expert</b></p> <p>Dr Addison has a PhD from Imperial College, London and completed his MSC online training in 2015. Between 2003 - 2005 Julian worked on fishing gears with mitigating ecological impacts for the UK Government. He has also worked on analysing impacts of cockle suction dredges (2006). In 2008-2009 he completed baseline habitat mapping in the London Array and between 2008 - 10, he completed research project to quantify the environmental footprint of inshore fisheries.</p> <p>Julian has worked on stock assessments of shellfish species at Cefas, Lowestoft for over 25 years. He was Chair of the ICES Crab Working Group from 2006-2010 as well as a member of the ICES Nephrops and Crangon Working Groups in the 1980s, 1990s and 2000s. Julian therefore meets the PC3.1 and PC3.2 competency criteria. He has also completed the required Fishery Team member MSC training modules for the V2.0 Fisheries Certification Requirements</p> <p>- <b>Dr Gudrun Gaudian – Principle 2 expert</b></p> <p>Gudrun Gaudian has a BSc in Marine Biology, and a DPhil from University of York (UK) on the topic of “Taxonomy and Ecology of Red Sea Corals. She also completed an LLM Environmental Law and Management. Dr Gaudian is an experienced marine ecologist and taxonomist and her work has included coastal marine surveys, EIA’s for development and tourism, and research projects in tropical and temperate seas. Since 2011 she has been involved in fisheries certification applying the Marine Stewardship Council standard for sustainable fisheries, concentrating on Principle 2 of the Standard, working on many coastal and marine management issues, such as identifying sustainable coastal development projects, as well as addressing conservation issues, including selection and planning of marine parks and reserves, sustainable utilisation of natural resources and community based management programmes. Dr. Gaudian meets the following requirements in Table PC3: 3 Fishing impacts on aquatic</p>			

	<p>ecosystems. She has &gt;5 years' experience in research into, policy analysis for, or management of, fisheries impacts on aquatic ecosystems. She has completed the required Fishery Team Member MSC training modules for V2.0 Fisheries Certification Requirements. Dr Gaudian is therefore a qualified Principle 2 assessor for this fishery.</p> <p>- <b>Dr. Sophie des Clers – Principle 3 expert</b></p> <p>Sophie is an independent scientific expert in fisheries management systems. She is a qualified MSC auditor and a member of the MSC peer review college. She has over 30 years' experience in the formulation, monitoring, and evaluation of fisheries and aquaculture projects to build management capacity in the public and the private sector. Sophie is trained in databases, applied statistics, population dynamics, economics, law and public policy. Her past research and consultancy projects have taken her to fishing ports around the UK, EU, Norway, Africa, the North Sea, Mediterranean, Atlantic, Pacific, Indian oceans and the Caribbean. She has been involved in a number of previous MSC assessments and pre-assessments including lobster, cod, haddock, saithe, sole, herring, blue whiting, sardine, whelks (within the EU) and tuna and billfish fisheries. Sophie meets the following competency criteria in Table PC3: Fishery management and operations. She has also completed the required Fishery Team member MSC training modules for the V2.0 Fisheries Certification Requirements. Sophie will be responsible for the assessment of Principle 3.</p> <p>- <b>Dr. Jung Hee Cho – Principle 3</b></p> <p>Jung-Hee studied for his first degree at the In-Ha University in South Korea, following with a Masters degree at the Nova South Eastern University in the US and a Masters and Ph.D from the University of Rhode Island. Jung-Hee started his career in 1996 as a Research Assistant at the Department of Environmental and Natural Resource Economics, University of Rhode Island and is now a Senior Research Fellow and Director General of the Fisheries Research Division of the Korea Maritime Institute. His experience includes lecturing at the Konkuk University in Seoul and various government delegations involving the FAO, OECD, FTA and WTO. Jung-Hee is currently the Editor-in-Chief at the KMI International Journal of Maritime Affairs and Fisheries. He is a fully trained MSC team member and for this project, would be primarily responsible for the full assessment of Principle 3, with a focus on local Korean management. Dr. Cho meets the following competency criteria in Table PC3: Fishery management and operations, current knowledge of the country, language and local fishery context. He has completed the required Fishery Team Member MSC training modules for V2.0 Fisheries Certification Requirements.</p>
ii	- No conflict of interest has been identified for this fishery for any of the above assessors
<b>9</b>	<b>Stakeholder opportunities</b>
	<p>Stakeholders are encouraged to provide comments on the Announcement Comment Draft Report (ACDR) published on the MSC website for this fishery. Written submissions must be made through the "MSC Template for Stakeholder Input into Fishery Assessments v3.0" available for download here: <a href="#">Stakeholder Input template</a></p> <p>CU UK have submitted a Variation Request (VR) to the MSC with respect to the MSC COVID-19 derogation effective from the 28th September (<a href="https://www.msc.org/docs/default-source/default-document-library/for-business/program-documents/chain-of-custody-supporting-documents/msc-covid-19-guidance-for-cabs-september-2020.pdf">https://www.msc.org/docs/default-source/default-document-library/for-business/program-documents/chain-of-custody-supporting-documents/msc-covid-19-guidance-for-cabs-september-2020.pdf</a>) to hold the site visit remotely. If it is accepted remote meetings will be held during the week of the 9th November 2020 over the course of the entire week, and potentially the following week, depending on client and stakeholder availability. A wide range of stakeholders have been invited to participate in this assessment. If the VR is not accepted, COVID-19-related travel restrictions and processes upon arrival in Korea will bear great influence on the dates of the site visit, and these will need to be considered at a later date given the evolving nature of the situation (stakeholders will be kept up to date).</p> <p>All team members will be available to exchange with stakeholders during the aforementioned initial audit.</p> <p><b>Please note that CU UK will accept stakeholder input only if submitted using the aforementioned template, or if raised at the site visit (in person or remotely).</b></p>
<b>10</b>	<b>Assessment tree to be used</b>

	<ul style="list-style-type: none"> <li>- The default assessment tree will be used for this assessment.</li> </ul>
<b>11</b>	<b>Estimated timeline</b>
	<p>A predicted timeline is provided below, please note that a separate assessment timeline for this assessment is also available on the MSC website.</p> <ul style="list-style-type: none"> <li>- ACDR publication and announcement: 11<sup>th</sup> of September 2020</li> <li>- Client &amp; Peer Review Draft Report (C&amp;PRDR) publication: January 2021</li> <li>- Public Comment Draft Report (PCDR) publication: March 2021</li> <li>- Final Report (FR) publication: May 2021</li> <li>- Certification decision: June 2021</li> </ul>
<b>12</b>	<b>Site visit</b>
	<p>CUUK will keep the stakeholders up to date on the logistics of the initial audit, which is currently planned to take place on the week of the 9<sup>th</sup> November (after the 10<sup>th</sup>). The local Principle 3 assessor, Dr. Cho, will be available to meet in person (regardless of the outcome of the Variation Request). As for the rest of the team, further details will be circulated to stakeholders once the Variation Request has been addressed by the MSC.</p> <p>CU UK would like to encourage any stakeholder with knowledge relating to this fishery to participate in the site visit meetings, be it in person, or remotely.</p>
<b>13</b>	<b>Assessment tree modifications</b>
	<ul style="list-style-type: none"> <li>- N/A</li> </ul>

Submitted by: Henry Ernst

Date: 11/09/2020

Deadline for stakeholder comment: at 10/11/2020 17:00 UTC

Control Union (UK) Limited (CU UK) would like to welcome anyone who would like to participate in the site visit. All interested stakeholders are encouraged to contact CU UK by email (stakeholderfishuk@controlunion.com), telephone or post at the below number and address:

Control Union (UK) Limited, 56 High Street, Lymington, SO41 9AH, United Kingdom

Tel: +44 (0)1590 613007 Fax: +44 (0)1590 671573

Comments must be made using the Template for Stakeholder Input into MSC Assessments.

Should any stakeholder wish to meet the team in person, this can be arranged. Remote meetings can also be arranged via telephone conferencing or Skype, or written submissions made to the above-mentioned email addresses.

*Please note that stakeholders must provide objective evidence and references in support of any claims or any claimed errors of fact. Comments may remain unattributed. Furthermore, information that cannot be shared with any other stakeholder will not be referenced in the assessment and cannot be used in determining the outcome of the fishery's assessment nor used as a basis for an objection.*

*Stakeholders may raise issues with the team in confidence for the team to consider at the site visit, but any confidential information cannot be used in scoring unless in compliance with confidentiality requirements.*

*Information can be kept confidential if it is restricted to financial transactions about certification, the financial affairs of individual companies or information that may lead to this information being known, or information that is the subject of relevant national privacy or data protection legislation in the assessed fishery's country.*

## Appendix 1: Summaries of CVs of team leader and team members

### Henry ERNST

MSci Marine Biology, University of Southampton, United Kingdom

Email: [hernst@controlunion.com](mailto:hernst@controlunion.com)

Telephone: [REDACTED]

**Nationality:** American and Austrian

#### Education:

2013-2017, Masters in Marine Biology, University of Southampton, United Kingdom

- Successfully completed four-year integrated Masters programme (2.1 honours)
- 1<sup>st</sup> honours in dissertation on reproductive ecology of *Sterechinus neumayeri*
- Based at the National Oceanographic Centre of the United Kingdom, Europe's leading centre for the study of marine and earth science
- Modules include applied ecology, marine invertebrates, physical oceanography, functional marine biology, zooplankton ecology and processes, IT communications, field and laboratory skills, inshore fisheries and aquaculture
- Field courses include practical field and boat skills course (England, April 2014); rocky shore ecology descriptive data collection field course (Wales, September 2014); biological oceanography data collection, analysis, and presentation field course (England, June 2015); tropical biology field course (Bermuda, June 2016)

#### Work Experience

<b>June 2019 - Present</b>	<b>Fisheries Assessment Manager, Control Union Pesca, Lymington, United Kingdom</b> Responsible for the management of fishery certification timelines for several European, East Asian, and Caribbean fisheries, acting as point of contact for clients and assessors alike. This role involves background research on fisheries, coordination of multiple assessment timelines, and a comprehensive understanding of the MSC Standard and its application as well as the procedures required to maintain a high quality standard. Additional responsibilities since the previous role have been the drafting of reports and scoring of fisheries against the Principles of the MSC Standard (principles 2 and 3). Further responsibilities include leading a team of experts throughout the assessment process, monitoring and ensuring that Quality Assurance requirements are met throughout the assessment of a fishery against the MSC Standard. MSC Full assessment Team Leader + project management work includes the following fisheries: Normandy Whelk, Normandy and Jersey Lobster, FROM Nord sole, Scapêche, Euronor and Compagnie des Pêches St Malo saithe, Euronor and Compagnie des Pêches St Malo cod and haddock, FROM Nord North Sea pelagic trawl herring, Insung Corp Antarctic krill fishery, Ben Tre clam fishery, the Bahamian spiny lobster fishery. Further project managed
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	<p>include DFFU/Doggerbank/UK Fisheries saithe, and DFFU/Doggerbank/UK fisheries cod, haddock, and saithe.</p> <p>MSC Pre assessment involvement: Purple sea urchin and blackspot seabream for Medfish France, Madagascar glass eel, Cornish mussels, Saint Paul and Amsterdam rock lobster, Indonesian glass eel fishery, Indonesian shrimp trammel net fishery.</p>
October 2017- June 2019	<p><b>Fisheries Officer at Control Union Pesca, Lymington, United Kingdom</b></p> <p>Assisted the management of fishery certification timelines for several European and Indian Ocean fisheries, acting as point of contact for clients and assessors alike. This role involves background research on fisheries, coordination of multiple assessment timelines, and an understanding of the MSC Standard and its application as well as the procedures required to maintain a high quality standard.</p> <p>MSC Full assessment project management includes the following fisheries: Normandy Whelk, Normandy and Jersey Lobster, FROM Nord sole, Scapêche, Euronor and Compagnie des Pêches St Malo saithe, Euronor and Compagnie des Pêches St Malo cod and haddock, SARPC toothfish, Southern Indian Ocean St Paul rock lobster, FROM Nord North Sea pelagic trawl herring</p> <p>MSC Pre assessment involvement: Purple sea urchin and blackspot seabream for Medfish France, Madagascar glass eel, Cornish mussels, Saint Paul and Amsterdam rock lobster</p>
(October 2015-March 2017)	<p><b>Jesters Employee, Southampton, United Kingdom</b></p> <p>Worked as a bartender, with responsibilities extending to the unloading of stock for the bar and keeping track of the inventory and secure storage of the goods sold (both alcoholic and non-alcoholic beverages) at the bar.</p>
July-September 2016	<p><b>Dockhand at Champlin's Resort and Marina, Block Island, Rhode Island, USA</b></p> <p>Docking and servicing of boats, customer relations, administrative upkeep for the vessels using the marina. Regularly involved in stocking the resort bar and restaurant.</p>
(May-July 2015)	<p><b>Laboratory technician British Antarctic Survey (BAS), National Oceanographic Centre, Southampton, United Kingdom</b></p> <p>Wax histology sample analysis and data compilation contributing to long-term data set on Antarctic benthic sea urchin <i>Sterechinus neumayeri</i></p>
June 2011, June-July 2014	<p><b>Laboratory technician, University of Vienna, Austria</b></p> <p>Microbiology and PCR work for genome reconstruction in the Marine Biology Department</p>

## Languages

English (mother tongue), French (Fluent), German (Intermediate), Spanish (Intermediate)

## Certifications

- RYA Powerboat Intermediate Certification, PADI Open Water Diving Certification, Driver's License, Online MSC Fisheries Team Member Training FCR v2.0, Online MSC Chain of Custody Auditor Training v2.0, Online MSC Fisheries Team Leader Training FCR v2.1, ISO QMS 9001:2015 Lead Auditor

## Curriculum Vitae – Julian Addison

Full Name: Julian Thomas Addison

Date of Birth: [REDACTED]

Place of Birth: Leeds, England      Nationality: British

Home Address: [REDACTED]



Current Employment: Independent Fisheries Consultant  
Director, Malthus Marine Consultancy

Telephone: [REDACTED]

Mobile: [REDACTED]

E-mail: [REDACTED]

Skype: [REDACTED]

### Relevant Educational History:

Institution	Date(s)	Degree obtained
Imperial College of Science and Technology, University of London	1978 - 1982	Ph.D. in population ecology and modelling
Kings College, University of London	1975 - 1978	BSc Zoology

### Employment History:

Date(s)	Employer	Role
2011 - present	Self-employed	Independent Fisheries Consultant
2000 - 2010	Cefas, Lowestoft	Senior Shellfish Advisor to UK Government policy advisors
2007 - 2010	Cefas	Head of Coastal and Freshwater Fisheries Group
2005 - 2013	University of East Anglia	Honorary Reader in the School of Environmental Sciences
1995 - 1998	Cefas	Scientific Advisor to UK Government policy advisors on International Whaling Commission issues
1993 - 2005	University of East Anglia	Honorary Lecturer in the School of Biological Sciences
1992	(Cefas)	Visiting scientist at National Marine Fisheries Service, Woods Hole, Massachusetts, USA
1991	(Cefas)	Visiting scientist at Department of Fisheries and Oceans, Halifax, Nova Scotia, Canada
1985 - 2000	Cefas	Shellfish research and stock assessment scientist
1982 - 1985	Cefas	Shellfish stock assessment biologist
1982	MAFF	Scientific assistant on bird population biology

### **Current Employment**

## **Independent fisheries consultant specialising in shellfish and inshore fisheries.**

I have been working as an independent fisheries consultant specialising in shellfish and inshore fisheries since 2011. I previously worked for 28 years at the Centre for Environment, Fisheries and Aquaculture Science (Cefas), which is the UK Government's marine science agency for environment, fisheries and aquatic science. Relevant skills and experience include 30 years' experience of stock assessment and provision of management advice on shellfish and inshore fisheries, extensive shellfish research primarily in the field of crustacean population dynamics and assessment, extensive knowledge of the UK shellfish and inshore fisheries industry and liaison with fishers and other stakeholder groups, knowledge of shellfisheries management regimes worldwide, effective oral and written communication skills and winning of contracts under competitive tender.

Recent contract work has focussed on Marine Stewardship Council (MSC) certification work. and recent current contracts as a consultant include:

- Marine Stewardship Council (MSC) full assessments of Ireland & Northern Ireland mussel fisheries, Newfoundland & Labrador snow crab fishery, Estonia Barents Sea cold water prawn fishery, Faroe Islands Barents Sea cold water prawn fishery, Nephrops fishery in the Skagerrak and Kattegat, separate assessments for the Swedish, Danish and Norwegian shrimp fisheries in the Skagerrak and Norwegian Deep, Eastern Canada offshore lobster fishery, Limfjord mussel and cockle fishery, Chilean squat lobster and nylon shrimp fisheries, Normandy and Jersey lobster fishery, North Sea brown shrimp fishery, Inner Danish Waters mussel fishery, Shetland Inshore shellfisheries, Canadian Arctic surfclam fishery, Dutch hand-raked cockle fishery, Dutch *Ensis directus* fishery, Poole Harbour Manila clam & cockle fishery, Orkney brown crab fishery, Icelandic shrimp fishery, Norway Barents Sea shrimp fishery, Scotian Shelf and Gulf of St Lawrence shrimp fisheries, Wash brown shrimp fishery, Guyana seabob fishery, Russian snow crab fishery and Antarctic krill fishery.
- MSC pre-assessments for a wide range of fisheries in Europe, North America, Australia and Southern Ocean.
- Member of the MSC Peer Review College and peer reviews of MSC assessments of fisheries for Canadian lobsters, Maine lobsters, Norway North East Arctic cold water prawns, Dutch North Sea razorfish, Dutch hand rake cockle, Bay of Fundy scallops, Scotian Shelf Northern Shrimps, Gulf of St. Lawrence Northern Shrimps, Chilean lobsters, Spencer Gulf prawns, French slipper limpets, Tristan da Cunha rock lobsters, Limfjord oyster and rope grown mussels, Swedish pike-perch, Norwegian sandeel, Norway pout and sprat, Russian red king crabs, Japanese enhanced scallops, Oregon & Washington shrimps, Venetian clams, Dutch oysters, Burry Inlet cockles, Isle-de-la-Madeleine lobsters, German mussels and Thames cockles and over 60 MSC annual surveillance audits and technical reviews for fisheries worldwide.
- A review of the stock assessment model for blue crabs in Chesapeake Bay, USA as part of the Center for Independent Experts (CIE) peer review panel.
- Assessment of three Alaskan crab fisheries under the FAO-based Responsible Fisheries Management scheme.
- Advisor to a wind farm company on shellfisheries monitoring programmes to assess any potential effect of wind farm development on shellfish stocks.
- Trialling electronic monitoring and video technology to verify self-reported catches aboard inshore fishing vessels operating on the West coast of Scotland.

Research interests include development of methods for shellfish stock assessment, including fishery-independent methods of estimating abundance, crustacean behaviour in relation to capture in fishing gear, development of environmentally friendly fishing gear technology for both trawl and molluscan dredge fisheries and the environmental footprint of inshore fisheries.

## **Previous Roles and Responsibilities at Cefas**

As Senior Shellfish Advisor to the UK Government's Department for Environment, Food and Rural Affairs (Defra) my responsibilities included:

- Management of a Government contract worth £650,000 per annum
- Provision of advice on the status, sustainable management and development of wild shellfish stocks to Government policy customers and Government Ministers
- Oversight of the monitoring, stock assessment and associated biological studies on wild shellfish stocks in England and Wales
- Assessing the potential impacts of other seabed uses, such as aggregate dredging and wind farm development, on shellfish stocks, and collaboration with the Cefas Weymouth laboratory on shellfish cultivation and aquaculture and disease issues
- Liaison with marine managers and legislators, fishers and industry bodies, other fisheries scientists and research institutions, the Government's Statutory Nature Conservation Agencies, environmental NGOs and the media
- Representing Cefas and UK Government at national and international meetings
- Project management of specific Research and Development (R&D) contracts worth approximately £600,000 per annum.

In addition, whilst Head of the Coastal and Freshwater Fisheries Group at Cefas I held responsibility for 45 staff working on shellfish and recreational fisheries, salmon and freshwater fisheries, observer programmes and environmentally friendly fishing gear technology with an income for 2009/10 of £4.7 million generated from a wide range of customers.

Other previous responsibilities and experience included:

- Chair of the Working Group on the Biology and Life History of Crabs (WGCRAB) of the International Council for the Exploration of the Sea (ICES)
- Member of the ICES Working Group on Crangon Fisheries and Life History
- Member of the ICES Steering Group on Ecosystems Function and previously UK delegate to the Living Resources Committee
- Member of the Crustacea Committee of the Shellfish Association of Great Britain, the association which represents the UK shellfish industry
- Honorary Reader in the School of Environmental Sciences at the University of East Anglia
- Appointed Buckland Professor 2004 giving a series of lectures on 'Science and the Management of UK Crab Fisheries'
- From 1995-98, member of International Whaling Commission (IWC) Scientific Committee and UK Delegation to IWC providing scientific advice to UK Commissioner to IWC, and liaising with a large range of environmental NGOs in relation to whaling science and the UK's whaling policy
- Reviewer of manuscripts for a range of scientific journals and guest editor for editions of e.g. 'Fisheries Research' and 'Crustaceana'
- Reviewer of research proposals for UK Government Departments and other organisations, e.g. Natural Environment Research Council
- Supervision of MSc and PhD students from University of East Anglia, Southampton University, Swansea University, National Oceanography Centre
- Extensive teaching experience including:
  - 13 years organising and teaching a course on Fisheries Biology in The School of Biological Sciences at University of East Anglia
  - 15 years teaching mathematics to Open University technology students

- 4 years teaching population ecology and quantitative biology to undergraduates at Imperial College, London.

#### Previous projects whilst at Cefas included:

Date(s)	Customer	Project
2000 - 2010	UK Government	Shellfish monitoring, assessment & management advice
2007 - 2012	UK Government	Improved understanding and management of shellfish fisheries
2008 - 2010	UK Government	Environmentally Responsible Fishing – a pilot research project to quantify the environmental footprint of inshore fisheries
2008	UK Government	Baseline surveys of scallops in Fal & Helford SAC
2008 - 2009	UK Government	Baseline habitat mapping in the London Array proposed wind farm site
2007	Black and Veatch Ltd.	The effect of Ely Ouse flows on shellfish and fish in The Wash
2007	Scottish Natural Heritage	Scallop dredging in the Firth of Lorn SAC: a review of scallop fishing activity
2007	North Western & North Wales SFC	Status of lobster stocks in North Wales – an analysis based on CPUE data collected during 2002-05
2006	Natural England	Impacts of cockle suction dredging in The Wash and north Norfolk EMS – Part II Analysis of existing data
2005	Natural England	Assessment of the impacts of cockle suction dredging in The Wash and north Norfolk European Marine Site
2005	European Commission (FIFG)	Development of a suitable razorfish dredge in The Wash
2006	UK Government	Investigation of potential fisheries for razorfish and other bivalves in the eastern Irish Sea
2003 - 2005	UK Government	Fishing gears with mitigating ecological impacts
2002 - 2004	UK Government	Edible crab spawning grounds in the English Channel
2000 - 2003	European Commission	European decapod fisheries assessment and management (EDFAM)
2000 - 2002	European Commission	Collection and evaluation of crab assessment data
1999 - 2003	UK Government	Development of shellfish modelling, assessment and management methods
1999 - 2001	UK Government	Edible crab spawning grounds off the east coast of England
1997 - 2001	Environment Agency	Impact of beach replenishment on shrimp populations
1996 - 2000	UK Government	Estimating <i>Nephrops</i> abundance from underwater TV surveys
1995 - 2000	RMC Marine Ltd.	Impact of dredging on shrimp populations

#### Key Publications

Bell, M.C.; Elson, J.M.; **Addison, J.T.**; Revill, A.S.; Bevan, D. 2008. Trawl catch composition in relation to Norway lobster (*Nephrops norvegicus* L.) abundance on the Farn Deep grounds, NE England. Fisheries Research 90 (1-3) 128-137

Bell, E.D., Bell, M.C., Smith, M.T. and **Addison, J.T.** 2007. SpatMan: A spatial management modelling tool for shellfish stocks. ICES CM 2007 O:08.

Bell, E. D, Elson, J.M., and **Addison, J. T.** 2007. Sources of variation in *Nephrops* burrow counting schemes. ICES CM 2007 Q:07.

**Addison, J.**, Palmer, D., Lart, W., Missom, T. and Swarbrick, J. 2006. Development of a suitable dredge for exploitation of razorfish (*Ensis directus*) in The Wash. EU FIFG project report, 75pp.

Bell, M.C., Elson, J.M. and **Addison, J.T.** 2005. The effects of spatial targeting of fishing effort on the distribution of the Norway lobster, *Nephrops norvegicus*, on the Farn Deep grounds. New Zealand Journal of Marine and Freshwater Research, 39: 1023-1037.



- Addison, J.T.**, Lawler, A.R and Nicholson, M.D. 2003. Adjusting for variable catchability of brown shrimps (*Crangon crangon*) in research surveys. *Fisheries Research*, 65: 285-294.
- Smith, M. T. and **Addison, J. T.** 2003. Methods for stock assessment of crustacean fisheries. *Fisheries Research*, 65: 231-256.
- Bell, M.C., Eaton, D.R., Bannister, R.C.A and **Addison, J. T.** 2003. A short-term mark-recapture experiment to estimate density of the edible crab *Cancer pagurus* from trap data. *Fisheries Research*, 65: 361-378.
- Eaton, D.R., Brown, J., **Addison, J. T.**, Milligan, S. P. and Fernand, L. 2003. Larvae surveys of edible crab (*Cancer pagurus*) off the east coast of England: implications for stock structure. *Fisheries Research*, 65: 191-199
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Miller, R.J. and **Addison, J.T.** 1995. Trapping interactions of crabs and American lobsters in laboratory tanks. Can. J. Fish. Aquat. Sci. 52: 315-324

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**Julian Addison**  
**March 2020**

## Dr HUGH JONES B.Sc. PhD

### Curriculum Vitae

#### Qualifications:

**2010-2013 PhD.** 'Accumulation of mercury in estuarine food webs: biogeochemical and ecological considerations'. University of Tasmania, Australia.

**2006-2007 Graduate Certificate of Education.** University of Plymouth, U.K.

**1999-2002 B Sc. (Hons) Marine Biology and Coastal Ecology, (1<sup>st</sup> class).** 'The influence of nest characteristics and vano abundance on viability of eggs of the leatherback sea turtle (*Dermochelys coriacea*)'. University of Plymouth, U.K.

#### Employment History:

**Current** Control Union, UK – **Principal Fisheries Assessment Manager**

<http://www.me-cert.com/about-mec/mec-team-profiles/>

**2013 - 2017** University of Tasmania – **Junior Research Fellow – Invertebrate Fisheries**

<http://www.utas.edu.au/profiles/staff/imas/hugh-jones>

**2010-2013** University of Tasmania – **PhD candidate**

**2009-2010** University of Tasmania – **Research Assistant (fisheries and aquaculture)**

**2008-2009** Matahari Perhentian Island, Malaysia – **Marine Conservation/Dive Manager**

**2004-2008** Field Studies Council, UK – **Senior Tutor of Ecology**

**2003-2004** Marine Biological Association of the UK – **Research Assistant**

**2003** Four Seasons Explorer, Maldives – **Marine Biologist Consultant/Dive Officer**

**2002** Marine Biological Association of the UK – **Scientific Officer**

#### Journal Published Papers (most recent first):

Wallis, J.R., Swadling, K.M., Everett, J.D., Suthers, I.M., **Jones, H.J.**, Buchanan, P.J., Crawford, C.M., James, L.C., Johnson, R., Meiners, K.M., Virtue, P., Westwood, K., Kawaguchi, S. (2015). Zooplankton abundance and biomass size spectra in the East Antarctic sea-ice zone during the winter-spring transition, Deep-Sea Research. Part 2 pp. 1-12 **I.F. 2.8**

**Jones, H. J.**, Swadling, K. M., Butler, E. C. V., Barry, L. A. & Macleod, C. K. (2014). Application of stable isotope mixing models for defining trophic biomagnification pathways of mercury and selenium. Limnology and Oceanography – 59 (4), 1181-92 **I.F. 3.4**

**Jones, H. J.**, Butler, E. C. V., Swadling, K. M., & Macleod, C. K. (2013). Complex patterns in fish – sediment mercury concentrations in a contaminated estuary: the influence of selenium co-contamination? Estuarine and Coastal Shelf Science. 137, 14-22. **I.F. 2.80**

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**Jones, H. J.**, Swadling, K. M., Tracey, S. R. & Macleod, C. K. (2013). Long term trends of Hg uptake in resident fish from a polluted estuary. *Marine Pollution Bulletin* 73, 263-272. **I.F. 3.15**

## Peer Reviewed Reports (most recent first):

**Jones, H.** and Emery, T. (2016) Stock Status of Venus Clam. The Status of Australian Fish Stocks Report. FRDC 2016. [www.fish.gov.au](http://www.fish.gov.au)

Dent, J, Hart, A. **Jones, H.** and Mayfield, S. (2016) Stock Status of Vongoles *Katelysia* spp. The Status of Australian Fish Stocks Report. FRDC 2016. [www.fish.gov.au](http://www.fish.gov.au)

## Published Reports (most recent first):

Mundy, C.N. and **Jones, H.J.** (2017), Tasmanian abalone fishery assessment 2016, tech report, Institute for Marine and Antarctic Studies Report. University of Tasmania, Hobart.

Mundy, C.N. and **Jones, H.J.** (2016), Tasmanian abalone fishery assessment 2015, tech report, Institute for Marine and Antarctic Studies Report. University of Tasmania, Hobart.  
[https://secure.utas.edu.au/\\_\\_data/assets/pdf\\_file/0008/951038/TasAbaloneAssessmentFY2015.pdf](https://secure.utas.edu.au/__data/assets/pdf_file/0008/951038/TasAbaloneAssessmentFY2015.pdf)

**Jones H.J.** & Gardner, C. (2016) Tasmanian small bivalve fishery assessment - *Ostrea angasi*, *Venerupis largillierti*, *Katelysia scalarina*. *IMAS Technical Report*, UTAS, Hobart, Australia.

**Jones H.J.**, Tarbath, D. & Gardner, C. (2015) Could harvest from abalone stocks be increased through better management of the size limit/quota interaction? Technical Report, DOI: 10.13140/RG.2.1.4039.6960, Australian Seafood CRC Project No. 2009/746

**Jones H.J.**, Macleod C., Swadling K. (2010) Establishing mercury bioaccumulation pathways to top predators within a contaminated Australian estuary - providing essential information for faunal conservation and ecosystem remediation. *IMAS Technical Report*, UTAS, Hobart, Australia.

Hiscock K., **Jones H.J.** (2003) Testing criteria for assessing 'national importance' of marine species, biotopes (habitats) and landscapes. *Report to Joint Nature Conservation Committee from the Marine Life Information Network (MarLIN)*. Plymouth: Marine Biological Association of the UK. [Contract no. F90-01-681].

Hiscock K., Tyler-Walters H. & **Jones H.J.**, (2002). High Level Environmental Screening Study for Offshore Wind Farm Developments - Marine Habitats and Species Project. *Report to The Department of Trade and Industry New and Renewable Energy Programme*. (AEA Technology, Environment Contract: W/35/00632/00/00.)

**Jones H.J.**, (2002) *Pennatula phosphorea*, The Phosphorescent Sea Pen. *Marine Life Information Network: Biology and Sensitivity Key Information Sub-programme*. Plymouth: Marine Biological Association of the United Kingdom. For website: <<http://www.marlin.ac.uk>>

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## Selective Marine Stewardship Council Reports (most recent first)

**Jones, H. J.** Gascoigne, J., des Clers, S. and Tamura Y. (2020) Marine Stewardship Council (MSC) Usufuku Honten Atlantic Blue fin tuna longline Final Report. <https://fisheries.msc.org/en/fisheries/usufuku-honten-northeast-atlantic-longline-bluefin-tuna-fishery/>

**Jones, H. J.** P. Trott, T. Emery, C. Daxboeck, L. Kell and K. Collinson. (2020) Marine Stewardship Council (MSC) Public Certification Report - Pan Pacific yellowfin, bigeye and albacore tuna longline fishery. <https://fisheries.msc.org/en/fisheries/pan-pacific-yellowfin-bigeye-and-albacore-longline-fishery/@@view>

**Jones, H. J.** P. Trott, C. Daxboeck, L. Kell and K. Collinson. (2019) Marine Stewardship Council (MSC) Public Certification Report - Tropical Pacific yellowfin and skipjack free-school purse seine fishery. <https://fisheries.msc.org/en/fisheries/tropical-pacific-yellowfin-and-skipjack-free-school-purse-seine-fishery/@@view>

**Jones, H. J.** Cieri, M. (2019) Expedited audit and Surveillance year 3 SPSP, DPPO, PFA, SPFPO & KFO Atlanto-Scandian purse seine and pelagic trawl herring for the for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/spsg-dppo-pfa-spfpo-kfo-atlanto-scandian-purse-seine-and-pelagic-trawl-herring/@@view>

**Jones, H. J.** Blyth-Skyrme, R. (2019) Poole Harbour Clam and Cockle fishery Year 1 surveillance for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/the-poole-harbour-clam-cockle-fishery/@@view>

**Jones, H. J.** des Clers S. (2019) PFA, DPPO, KFO, SPSP & Compagnie des Pêches St Malo Northeast Atlantic blue whiting Pelagic Trawl Year 3 Surveillance for the MSC <https://fisheries.msc.org/en/fisheries/pfa-dppo-kfo-spsg-compagnie-des-peches-st-malo-northeast-atlantic-blue-whiting-pelagic-trawl/@@assessments>

**Jones, H. M.** Cieri and S. des Clers (2018) Cornwall Sardine Expedited audit and Year 1 Surveillance Report for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/cornwall-sardine-uk/@@view>

**Jones, H. J.** Gascoigne, D. Japp and M. Bell (2018) Tristan da Cunha Year 1 Surveillance Report for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/tristan-da-cunha-rock-lobster/@@view>

**Jones, H. R.** Cook, J. Gascoigne and G. Honneland (2018) SFSAG Northern Demersal Stocks. Fishery Public Certification Report for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/sfsag-northern-demersal-stocks/@@view>

**Jones, H. R.** Cook, J. Gascoigne and G. Honneland (2018) SFSAG Rockall Haddock Fishery Public Certification Report for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/scottish-fisheries-sustainable-accreditation-group-sfsag-rockall-haddock/@@view>

**Jones, H.** Blyth-Skyrme, R. and Addison, J. (2018) Poole Harbour Clam and Cockle Fishery Public Certification Report for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/the-poole-harbour-clam-cockle-fishery/@@view>

Gascoigne J. **Jones H.** and Doggett M. (2017) Dee Estuary Cockle Fishery Re-Assessment. ME Certification (CAB) for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/dee-estuary-cockle/@@assessments>

**Jones H.** and Gascoigne J. (2017) SFSAG Saithe fishery. Year 3 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/scottish-fisheries-sustainable-accreditation-group-sfsag-saithe/@@assessments>

**Jones H.** and Gascoigne J. (2017) SFSAG North Sea haddock fishery. Year 3 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/scottish-fisheries-sustainable-accreditation-group-sfsag-north-sea-haddock/@@view>

Gascoigne J. **Jones H.** and Doggett M. (2017) Dee Estuary Cockle Fishery Year 4 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/dee-estuary-cockle/@@assessments>

Gascoigne J. **Jones H.** and Des Clers S. (2017) The SPSG, DPPO, PFA, SPFPO & KFO Atlanto-Scandian purse seine and pelagic trawl herring fishery. Year 1 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/spsg-dppo-pfa-spfpo-kfo-atlanto-scandian-purse-seine-and-pelagic-trawl-herring/@@assessments>

**Jones H.** Gascoigne J. Pawson, M. and Des Clers S. (2017) The SPSG, DPPO, PFA, KFO & Compagnie des Pêches St Malo Northeast Atlantic Blue Whiting pelagic trawl fishery. Year 1 Surveillance Audit. ME Certification (CAB) for the Marine Stewardship Council. <https://fisheries.msc.org/en/fisheries/pfa-dppo-kfo-spsg-compagnie-des-peches-st-malo-northeast-atlantic-blue-whiting-pelagic-trawl/@@view>

## Marine Stewardship Council Pre-assessment Reports (unpublished)

**Jones, H. J.** S. des Clers, R. Cook (2019) Marine Stewardship Council (MSC) Preassessment Final Report - Seafish Northern Anglerfish. For Seafish UK. Edinburgh.

**Jones, H. J.** D. Japp C. Kirchner, J. Groeneveld and S. Norman (2019) Marine Stewardship Council (MSC) Preassessment Final Reports for the MSC fish for Good project – South Africa. Nine Fisheries – East coast rock lobster, West coast rock lobster, Sardine, South Africa Sardine, Mussel, Kelp, line fish, squid, Albacore and yellowfin tuna.

**Jones, H. J.** S. des Clers, J. Vulata and J. Addison (2019) Marine Stewardship Council (MSC) Preassessment Final Report – Jeong 2 Corporation - Antarctic Krill.

**Jones, H. J.** Gascoigne, Y. Tamura and S. des Clers (2018) Marine Stewardship Council (MSC) Preassessment Final Report Usufuku Honten Co. Ltd North Eastern Atlantic Bluefin tuna fishery.

**Jones, H. J.** Gascoigne, J., des Clers, S. and Tamura Y. (2018) Marine Stewardship Council (MSC) Pre-assessment Usufuku Honten Atlantic Blue fin tuna longline.

**Jones, H. J.** Gardner, C. Groeneveld, J. Cieri, M. Irvine S. and Tamura, Y. (2017) Marine Stewardship Council (MSC) Preassessment Final Report Shijiki fishery co-operative (Japanese flounder, Red Seabream, Slipper lobster, spear squid) On behalf of MSC Japan.

**Jones, H. J.** Gardner, C. Groeneveld, J. Cieri, M. Irvine S. and Tamura, Y. (2017) Marine Stewardship Council (MSC) Preassessment Final Report Fukuoka Prefecture (Japanese flounder, Red Seabream, Spanish mackerel, Horse mackerel and Japanese Amberjack) On behalf of MSC Japan.

Gascoigne J. Drugan J. Tamura Y. and **Jones H.** (2017) Japanese albacore and skipjack pole and line fishery. MSC Pre-assessment. ME Certification (CAB) for the Marine Stewardship Council Japan.

Gascoigne J. Tamura Y. Cieri M. and **Jones H.** (2017) Spiny lobster (gillnet), Turban shell (gillnet, ama diving and mizuki fishing), Sardine, anchovy, chub mackerel, blue or southern mackerel and herring (purse seine) fisheries in Mie Prefecture. MSC Pre-assessment. ME Certification (CAB) for the Marine Stewardship Council Japan.

## Research funding

**2016** Department of Primary Industries, Parks, Water and Environment - *Estimating biomass, total catch allocations and sustainability of the Tasmanian small bivalve fisheries.* \$16,000

**2014-2017** Fisheries Research and Development Corporation, Australia - *Understanding East Coast recruitment collapse – Development of pre-recruitment monitoring, simulation of recruitment variation and predicting the impact of climate variation in the Tasmanian Blacklip Abalone (Haliotis rubra) Fishery.* \$120,000p.a.

**2010-2013** Nyrstar PhD scholarship \$22,000p.a.

**2010-2013** University of Tasmania Elite Student Scholarship \$5000p.a.

**2010 -2013** Seafood CRC analytical grant (2011/703) - *Tracking methyl mercury contamination pathways in key commercially and recreationally fished species.* CK Macleod (PI) H Jones (CI) \$30000p.a.

**2011** SeaWorld (SWR/12/2011) - *Tracking of Elasmobranch prey species as evidence of key trophic accumulation pathways of Hg* – CK Macleod (PI) H Jones (CI) \$20000

**2010-2011** Australian National Nuclear Research and Development Organisation Grant - *Multiple lines of evidence to identify mercury bioaccumulation pathways in a key recreationally caught fish species.* – K Swadling (PI), H Jones (CI) \$5000p.a. (in kind)

**2009** Australian Geographic Seed Grant - *Using Multiple Lines of Evidence as Identification of Key Trophic Accumulation Pathways of Mercury (Hg) in Estuarine Food Webs* CK Macleod (PI) H Jones (CI) \$2500

- Family name** DES CLERS
- 1. First names** Sophie, Alexandra
- 2. Date of birth** [REDACTED]
- 3. Passport holder** French
- 4. Residence** [REDACTED]  
[REDACTED]

## 5. Education

Institution [ Date from - Date to ]	Degree(s) or Diploma(s) obtained:
1985 Université Lyon I, France	PhD in Biometrics (Quantitative Ecology) Sept. 82-Sept.85 Doctorat de Biométrie, Mention Très Honorable
1998 University College London, UK	MSc in Public Policy, University College London Dept. of Economics (European Law and Institutions, Public Policy, Machinery of Government, Judicial Review, Microeconomics, Econometrics, European Environmental Policy,). Sept.97-Sept.98
1978 Université Paris 6, France	Post-graduate degree in Quantitative Ecology Sep.77-Sept.78, Diplôme d'Etudes Approfondies, Université Paris 6, France
1978 International Institute for Applied Systems Analysis, Laxenburg, Austria	Post-graduate Summer School in Systems Analysis Jul.78-Sept.78
1977 Université Paris 7, France	Post-graduate and graduate degrees in Natural Sciences Sept.72-Aug.77 Maîtrise ès Sciences Naturelles

## 6. Language skills (competence on a scale of 1 to 5: 1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
English	1	1	1
French	1	1	1
Spanish	2	4	5

**7. Membership of professional bodies:** International Institute for Fisheries Economics and Trade (IIFET); Ecological Economics Society; Fellow of the Royal Geographical Society

**8. Other skills:** Computer literate Microsoft Word, Excel, Powerpoint, Access; UNDSS (United Nations Department of Safety and Security) Basic Security in the Field II (BSITF II) and Advanced Security in the Field (ASITF) training courses completed in August 2016; MSC Program Manager Training modules for the Code of Conduct and MSC Fishery Standard and Fisheries within scope, certification process, scoring and special cases, FCR version 2.0, RBF v2.0, Traceability V2.0, completed Feb. 2015 and January 2018.

**9. Present position:** Independent Consultant since 1992

## 10. Key qualifications

- Experienced Team leader; 30 years of combined research, consultancy, and project management experience in fisheries development, policy, governance and management;
- Technical expertise in fisheries socio-economics and ecosystem approach, management advice to government and private sector fishery businesses;
- Auditor for Marine Stewardship Council (MSC) standard of Sustainable Fisheries (V2.1) specialising in Principle 3 – Fisheries Management System, Team leader and ISO 19011 qualified (2019);
- In-depth knowledge of logical framework approach to project life cycle management, identification, formulation and ex-ante/ex-post evaluation of fisheries management intervention projects;
- Expert witness in two Court cases relating to fisheries management and fishing rights allocation (2000 and 2002);
- Bi-lingual English and French, highly quantitative and computer literate, excellent command of spoken and written technical English and French, excellent public presentation and inter-personal skills.

## 11. Fisheries and Aquaculture Advisory Committees

- 2011-13 – England: Inshore Fisheries and Conservation Authority (Statutory body in charge of Inshore (0-6 nautical miles) Fisheries management – IFCA, Kent & Essex, England;
- 2000-2 – California Squid Management Committee (State Committee), Santa Cruz, USA;
- 1999 – European Advisory Council for Fisheries and Aquaculture – ACFA, European Commission, Brussels, Belgium.

## 12. Detail of Marine Stewardship Council (MSC) certification audits since 2011 (P3 specialist - certification; team leader for some – all reports available from [www.fisheries.msc.org](http://www.fisheries.msc.org))

Fishery MSC name	Audit type	Date Report published
UK Fisheries, DFFU & Dogger Bank Saithe	Certification	04/01/2011
Normandy & Jersey Lobster	Certification	23/06/2011
CPStM & Euronor Cod and haddock	Certification	19/04/2012
UK Fisheries/DFFU-Doggerbank NEA cod, haddock and saithe	Certification	03/05/2012
SARPC Kerguelen toothfish	Certification	03/09/2013
SFSAG Saithe	Certification	03/10/2013
PFA, DPPO, KFO, SPSG and CPStM NA Blue Whiting	Certification	11/02/2016
FROM Nord NS and Eastern Channel trammel net sole	Certification	03/05/2016
SFSAG - North Sea trawl and seine Haddock	Re-certification	16/05/2016
Normandy & Jersey Lobster	Re-certification	10/11/2016
SARPC Crozet toothfish	Exp. scope extension	20/12/2016
South Brittany sardine purse seine	Re-certification	19/01/2017
Basse Normandy Granville Bay - Whelk	Certification	12/09/2017
Euronor & CPStM Cod / haddock	Re-certification	13/10/2017
SARPC Kerguelen and Crozet toothfish	Re-certification	21/12/2018
FROM Nord North Sea and Eastern Channel pelagic trawl herring	Re-certification	16/04/2020
Southern Indian Ocean Saint Paul Rock Lobster Fishery	Certification	14/05/2020

Numerous surveillance audits, several MSC standard fisheries pre-assessments (Principles 1, 2 and 3), including for tuna and tuna-like fisheries and Fisheries Improvement Plans (FIP) elaboration and training.

## 13. References

Dr Hugh Jones, CU-Pesca Ltd, [Hjones@controlunion.com](mailto:Hjones@controlunion.com) (for MSC audits); Jean-Pierre Silva, Cofrepêche, [jp.silva@cofrepeche.fr](mailto:jp.silva@cofrepeche.fr);  
Dr Ian Goulding, MD Megapesca, [megapesca@gmail.com](mailto:megapesca@gmail.com); Xavier Vincent, World Bank, [xvincent@worldbank.org](mailto:xvincent@worldbank.org).

## 14. Professional experience

Year from – Date to	Month	Location	Company & reference person (name & contact details)	Position	Description
2020 since 2009	01-12	North East Arctic, North Sea, Atlantic, Indian Ocean, Southern Ocean	Control Union Pesca (was MEC – MacAlister Elliot Certification Ltd., UK) <a href="mailto:Hjones@controlunion.com">Hjones@controlunion.com</a>	Fisheries Sustainability Auditor	MSC fishery sustainability pre-assessments, certification and surveillance audits according to Marine Stewardship Council standards (>20 fisheries)
2020	01-07	French Polynesia (remotely)	Greenfishers Consultants	Expert in a team of three	Legal feasibility of Territorial Use Rights for Fisheries (TURFs) for French Polynesia
2020	01-12	Home-based			
2019	09	South Africa	Marine Stewardship Council	Trainer	Support and Training to deliver two Fisheries Action Plans (AP), including facilitation of stakeholders meetings and AP reports



Year from – Date to	Months	Location	Company & reference person (name & contact details)	Position	Description
2018	06-08	Tenerife (Spain), EU-Mauritania	MRAG Ltd, c.mees@mrage.co.uk	Report editor	Collation and edition of the Joint Scientific Committee report: EU- Mauritania Sustainable Fisheries Partnership Agreement (SFPA)
2018-19	07-08	Mozambique	Océanic Développement c.renaud@oceanic-dev.com	Economics expert	Study 3 – Study for a long-term sustainable financing regarding the MSC industrial, semi-industrial and small-scale fisheries.
2019	04	Madagascar	Marine Stewardship Council	Trainer	Delivery of MSC one-week Level 2 training programme to government, NGOs and private sector experts from Madagascar, Comoros and Seychelles.
2018	10-12	SWIO	FAO-TCIA for World Bank, jmillion@worldbank.org	Economics expert	Updated Economic and Financial justification for restructured SWIOFish1 project (Comoros, Tanzania and Mozambique).
2019	01	Senegal	Marine Stewardship Council	Trainer	Delivery of MSC one-week Level 2 training programme to government and private sector experts from Senegal, Mauritania and Guinea-Bissau
2018	07	Dakar, EU-Senegal	MRAG Ltd, c.mees@mrage.co.uk	Report editor	Collation and edition of the Joint Scientific Committee report: EU- Senegal Sustainable Fisheries Partnership Agreement (SFPA)
2018	05	UK	Matis, Iceland	External Reviewer	Participation and feedback for EU-funded FARFISH project on EU-SFPA around the world, 1 <sup>st</sup> annual conference.
2018 also 2010 and 2015	01-03	France	Bureau Veritas - France	Fisheries Sustainability Auditor	MSC fishery sustainability assessment and certification according to Marine Stewardship Council standard (2 fisheries)
2017	12	World	Cofrepêche, France jp.silva@cofrepeche.fr	Team member and coordination	Team of three, sustainability and potential returns on fishing fleet investments (French Investment Bank - Caisse des Dépôts)
2017	10	Canary Islands (Spain) EU-Mauritania	MRAG Ltd, c.mees@mrage.co.uk	Report editor	Collation and edition of the Joint Scientific Committee report: EU-Mauritania Sustainable Partnership Agreements
2016-17	10-03	Jamaica, St Lucia, Barbados, Trinidad, Suriname	EU-funded SPS project through IICA Megapesca Lda, Dr. Ian Goulding, MD megapesca@gmail.com	CBA Expert	Cost-Benefit analysis (CBA) of compliance with WTO Sanitary and Phytosanitary Standards (SPS) systems at national public and private sector levels for agrifood products in 15 CARIFORUM countries.
2016-17	09-02	Seychelles	FAO-TCIA for World Bank, bgarnaud@worldbank.org	Budgeting and Financial Analyst Specialist	SWIOFish3-Seychelles Contribution to project synthesis of costs and preliminary COSTAB budget, economic et financial analysis.
2016-17	04-05	Mauritania	Odyssée Développement, Widman@Odysseedev.com	Expert Fisheries Economics	Strategic planning for Nouhadibou Free Zone Fishing Port Hub, fisheries expert.
2016	04	Senegal	Indemar, Project ADUPES, a.tiana@indemar.es	Expert Eco-certification and FIP (Fishery improvement Plan)	Update of pre-assessment, Action Plan and budget towards an MSC certification of the Senegal deep-water shrimp fishery
2016	02	Madagascar	FAO-TCIA for World Bank, xvincen@worldbank.org	Budgeting and Financial Analyst Specialist	SWIOFish2-Madagascar Contribution to synthesis of costs and COSTAB budget, economic et financial analysis.
2015	05-12	EU – EC DG MARE	Cofrepêche jp.silva@cofrepeche.fr	Team Leader and economist	Analysis of the economic dynamics of the EU tuna fleet operating within RFMO or Fisheries Partnership Agreements (FPA)
2015	07	Madagascar	FAO-TCIA for World Bank, xvincen@worldbank.org	Budgeting and Financial Analyst Specialist	SWIOFish2-Madagascar Contribution to project formulation, synthesis of costs and preliminary COSTAB budget, initial economic et financial analysis.
2014-15	11-03	SWPO – South West Pacific Ocean	Cofrepêche jp.silva@cofrepeche.fr	Team Leader; Training workshop conception,	ACP-EU Technical Barriers to Trade (TBT) Programme - Development and implementation of eco-labelling schemes in the fish sector for Vanuatu and the Pacific Region (visits to Vanuatu,



Year from – Date to	Months	Location	Company & reference person (name & contact details)	Position	Description
				facilitation and delivery.	PNG and Solomon Islands) and 4-day training workshop. Team of two.
2015	02	France, UK	Kellow Learning for GAP2 EU-project, NWWWRAC, WWF-UK	Workshop co-facilitator	2-day Workshop to initiate the development of a joint UK-French Channel (ICES area VIIe-d) Scallop management plan, contribution to conception and delivery (50 participants) 11-12 February 2015, Port-en-Bessin.
2014	08-09	Desk study – WCPO – West Central Pacific Ocean	MacAlister Elliot & Partners, UK Chrissie.Sieben@macalister-elliott.com	Fisheries Sustainability Auditor	Contribution to Pre-assessment reports according to MSC standard of West-central Pacific Ocean Tuna longline fisheries (yellowfin, Bigeye and albacore) – Principle 2 – Ecosystem and Principle 3 – Management systems.
2014	04	UK, France	Kellow Learning for GAP2 EU-project, NWWWRAC, WWF-UK	Workshop co-facilitator	2-day Workshop to initiate the development of a joint UK-French Channel (ICES area VIIe-d) Scallop management plan, contribution to conception and delivery (55 participants) 15-16 April 2014, Brixham Devon.
2013-14	11-07	Tanzania	FAO-TCIA for World Bank, aglauber@worldbank.org	Economist and Financial Analyst Specialist	SWIOFish-Tanzania project formulation and costing, COSTAB, economic and financial analysis.
2013-14	10-06	Mozambique	FAO-TCIA for World Bank, xvinent@worldbank.org	Budgeting and Financial Analyst Specialist	SWIOFish-Mozambique project formulation and costing, COSTAB, economic and financial analysis.
2013	05-07	Comoros	FAO-TCIA for World Bank, xvinent@worldbank.org	Economist	SWIOFish-Comoros project formulation and costing, COSTAB, economic and financial analysis.
2013	05	Comoros	FAO-TCIA for World Bank, xvinent@worldbank.org	Institutional analyst	Review of the Institutional Arrangements for the Fisheries Sector in the Union of Comoros
2013		EU DG-ENV	Megapesca Lda, Dr. Ian Goulding, MD megapesca@gmail.com	Expert	Marine Strategy Framework Directive (MSFD) Article 12 assessment- Topic Lead for Commercial Fisheries descriptor and indicators D3, review of National expert reports on member states submissions, for adequacy, consistency and coherence.
2013	08-12	Africa	FAO- Office of Evaluation (OEDD), Tullia Aiazzi, Tullia.Aiazzi@fao.org	Team Leader	Final evaluation of the first phase of the EAF-Nansen project: strengthening the knowledge base for and implementing an ecosystem approach to marine fisheries in developing countries (GCP/INT/003/NOR). Team of three, Visits to FAO-HQ, IMR-Bergen, Ghana, Senegal, Sierra Leone, South Africa (Benguela Current Commission meeting) and Mozambique.
2013	02-08	SWIO - South West Indian Ocean	FAO-TCIA for World Bank, xvinent@worldbank.org	Fisheries Economist, team member	Project preparation: South West Indian Ocean Fisheries Governance and Shared Growth Project in the South West Indian Ocean (SWIOFish World Bank P124338), through World Bank funded South West Indian Ocean Fisheries Project. Economic analysis of project expected benefits.
2012	09-12	Indian Ocean and continental Africa	EU Delegation Mauritius, through Megapesca Lda / Dr. Ian Goulding, Managing Director megapesca@gmail.com	Team Leader	Mid-term evaluation and Phase II formulation of SmartFish, an EDF project to support an Integrated Fisheries Regional Strategy in the 20 member states of the Eastern and Southern Africa and Indian Ocean ACP region, visits to Mauritius, Burundi, Kenya, Madagascar, Seychelles, Tanzania, Uganda, Zambia
2012		UK	WWF Scotland, Dr M. Thom	Consultant	Review of the Scottish Conservation Credit Scheme
2012	04-08	Caribbean	EU-ACP FISH II, Sofreco Guillaume.ROMAIN@sofreco.com	Team member, in charge of St. Vincent and the Grenadines	Support to formulate a fisheries and aquaculture policy for the Commonwealth of Dominica, Grenada, and St. Vincent and the Grenadines. ACP Fish II – Strengthening fisheries management in ACP states.

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2011-12		UK	European Fisheries Fund	Consultant and MD	GreenFishers website to showcase sustainability initiatives by the fishing industry – initially under-10m vessels in England
2011	09-12	Algeria	EU Delegation Algiers, Megapesca Lda, Dr. Ian Goulding, Managing Director, megapesca@gmail.com	Team Leader	Formulation of DIVECO II, an EU-aid project to support the diversification of economics activities by the sustainable development of the Fisheries and Aquaculture sector and value added
2011	01-07	Montenegro	EU Delegation in Podgorica, Agrotec spa M. Girelli girelli@agrotec-spa.net	Team Leader and Socio-economic expert	Socio-economics expertise for the Sustainable Management of Marine Fishery in Montenegro: Procedures for the Fisheries Management Council and baseline socio-economics survey of marine and freshwater fisheries sectors, questionnaire design and data analyses,
2011		EU European Parliament	Study IP/B/PECH/IC/2010-157, IEEP, Institute for European Environmental Policy London UK (sub-contractor) I. Lutchman ilutchman@ieep.eu	Consultant	Study on Perspectives for the new European Maritime and Fisheries Fund. Sub-contractor leading and completing mini-evaluation of 26 NOPS; developing stakeholder questionnaire; main contributor to analyses of survey results, technical review of FIFG ex-post, EFF ex-ante and mid-term evaluations, and providing technical expertise where required on the evaluation of the options for the EFF post 2013.
2010	12	Turkey	Turkish Ministry of Fisheries, Agrotec spa girelli@agrotec-spa.net	Consultant	Fishery Economics, Workshop presentation to Fisheries Ministry agents and officials
2010	05	France	Agence Nationale de la Recherche	Research project evaluator	Home-based
2011	10	UK	Thames Estuary Partnership	Workshop facilitator	“Being shouted at” Stakeholder relations training for English water company staff. One-day workshop collaborative conception and delivery (25 participants).
2010	08	EU	OECD Gunnar.Haraldsson@oecd.org	Consultant	Economic evaluation of Fisheries Rebuilding Plans: Mediterranean bluefin tuna recovery plan. Chapter author.
2009-10	11 - 04	UK Falkland Islands	Department of Fisheries, Falkland Islands, Hagrannsóknir og Ráðgjöf e.h.f., Seltjarnarnes – Iceland (R Arnason ragnara@hi.is)	Consultant	Resource rent review for Falkland Islands Fisheries Department and Falkland Islands Fishing Companies Association. Economic data collection, processing and evaluation.
2009-10	07 - 01	UK	Seafish (Sea Fisheries Industry Authority), M Gray, m_gray@seafis.co.uk	Consultant	Extension of the FisherMap protocol to include social and economic data, Seafish Industry Authority. Project conception, management and delivery including training session for the Marine Conservation Zones staff.
2009-10	01 - 01	UK Greater Thames Estuary	(Defra), MEP Consultants Ltd (D. Elliott, mep@macalister-elliott.com)	Consultant	Socio-Economic appraisal of the coastal fisheries sector. Team leader in charge of survey design, data analysis, and report MEP Ltd. Defra Fisheries Challenge Fund.
2009		EU	Institute for European Environmental Policy (IEEP), I. Lutchman	Consultant	Institute for European Environmental Policy (IEEP), CFP Health check - Health check of the Structural policy, Report chapter on fishing capacity indicators
2009		UK Falkland Islands	Local Fishing Company	Consultant	Expert review of fisheries assessment of grenadier deep-water fishery, Private client.
2009	07	EU	Ifremer France, Dr P. Lorange Pascal.Lorange@ifremer.fr	Consultant	Deepfishman FP7-funded research project on the management of European deep-water fisheries. Stakeholders identification and communication strategy, Ifremer

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2009		EU	Seas at Risk, Belgium. (M. Verbeek mverbeek@seas-at-risk.org)	Consultant	Seas at Risk Conference, background paper and Conference presentation on the European fleet over-capacity
2000 - 2009		EU	ACP et INCO-DEV et INCO-MED (C. Nauen Cornelia.Nauen@ec.europa.eu)	Evaluator	Research proposal evaluator
2008-09 and 2015	01 - 06	France	Bureau Veritas	Fisheries Sustainability Auditor	MSC fishery sustainability assessment and certification according to Marine Stewardship Council standards, esp. Principle 3: Effective Management system. Re-certification in 2015-16.
2008	05 - 11	England	Leigh Port Partnership (P. Wexham, cllrwexham@southend.gov.uk)	Advisor	Independent expert regarding the development of the local fishing port and impact of London commercial container port development and dredging
2007–08	12 - 11	England and Wales	Environment Agency. (Dr. H Orr harriet.orr@environment-agency.gov.uk)	Team Leader	National Water Temperature Archive and analysis of climate change in rivers, lakes and estuarine ecosystems in England and Wales. Team leader in charge of data sourcing, analyses and reporting, Environment Agency, Ensis Ltd.
2007 - 2008	09 - 12	Devon, Dorset and Somerset, UK	Finding Sanctuary (Natural England)	Consultant	Expert advice to FisherMap, a Finding Sanctuary project to record fishermen's use of the sea and local knowledge. Expert advice on data collection, map synthesis and stakeholder engagement protocol.
2007		Rome, West and Central Africa	FAO /DfID	Consultant	Interactions between the Oil & Gas industry activities and Sustainable Fisheries Livelihood in 25 countries of West and Central Africa: Policy Information analysis, and management and mitigating recommendations (3 months). Expert Report (desk study) to Sustainable Fisheries Livelihood Programme UN-FAO and DFID.
2007		EU-World	IPCC	WG II Corresponding author	4th Assessment - IPCC Fisheries and Aquaculture Socio-Economics: Impacts, Mitigation and Adaptation (World Ch. 5 and Europe Ch. 12)
2006 - 07	07 - 01	Senegal, Gabon, Mozambique, Uganda, Fiji and New Caledonia	EC-AIDCO; Poseidon ARM Ltd. Richard Banks, Director Richard@consult-poseidon.com	Team Leader	Complementary Feasibility Study for ACP-FISH II, a project to strengthen Fisheries Management capacity in ACP countries. Update of all key documents to reflect budget increase to €5million, field visits to Senegal, Gabon, Mozambique, Uganda, Fiji and New Caledonia. Team leader, in charge of social and environmental aspects, team of three with economist and knowledge base experts.
2006	05 - 07	Senegal	EU DG-DEV and EU Delegation in Dakar	Team Leader, team of three	Final evaluation of PAPA-Sud co-financed by AFD, a 5-year project in support of artisanal fisheries south of Dakar (including Saloum and Casamance, 7 weeks). Team leader, in charge of socio-economic evaluation, team of three with infrastructure and training experts. EC delegation in Senegal.
2006		UK EEDA	East of England Development Agency; Poseidon ARM Ltd. Richard Banks, Director Richard@consult-poseidon.com	Consultant	Fishing Strategy and management recommendations for the East of England region. Part of team of three in charge of environment, catching, processing and marketing sector SWOT analyses and recommendations (2 months).
2005 - 2006		OECD High Seas Task Force	Poseidon ARM Ltd. Richard Banks, Director Richard@consult-poseidon.com	Consultant	Benefit cost analysis of integrating the High Seas Fishing Vessel information scheme with the Equasis Merchant Marine Vessel database. Team of two, in

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					charge of SWOT analysis and Data information systems with
2005	09	UK	Finding Sanctuary (Natural England, Exeter) UK.	Consultant	Expert - Conception and delivery Marine Stakeholder Knowledge Training Workshop on the collection of local ecological knowledge to inform the choice of Marine Protected Areas in the SW of England (September).
2005	06	Senegal	IUCN/ WWF	Consultant Programme PRCM	Negotiation Capacity building Workshop (2 days) and Training day – Information needs, role play and logical framework for future R&D programme and improved fisheries management. Joint Team leader in charge of delivery with international legal expert, the World Conservation Union IUCN and West African Regional sub-regional Fisheries Commission (CSRP - 7 countries).
2003 - 2005		EU	EU - PECHDEV- Research Project FP5	Scientific consultant	PECHDEV-FP5 Integration of environment constraints in CGE model of regional economic development in EU fisheries-dependent regions: Project partner, in charge of Work Package linking Ecology with regional economics. Research Framework 5. Uni. Portsmouth Lead Partner, EU - EC Fish Directorate General.
2004		UK	Leigh Port Partnership and Southend Borough Council (Essex) UK Local authorities	Consultant	Leigh-on-Sea Sustainable Fishing Port development, stakeholder consultation and representation at Public Enquiry for London Port development. Expert Advice
2003		UK	Port Authority - Harwich Haven Authority	Consultant	Harwich Fisheries Ecosystem Description and Monitoring: Development of ecosystem description and monitoring framework for and with local fishermen in the wake of the proposed Bathside Bay container port development. Port Authority (Harwich Haven) UK.
2002		UK South Georgia (Antarctica)	Thomas Cooper & Stibbard, Maritime Lawyers, London.	Expert	Expert to the High Court in the Quark Fishing case regarding the procedure for Toothfish fishing licensing and management measures operated by Her Majesty's Foreign Office in South Georgia (Antarctica).
2002		EU	European Commission, Birdlife Intl.-WWF	Consultant	Independent representative for the Environment at the EC Advisory Committee for Fisheries and Aquaculture during the reform of the Common Fisheries Policy. Environmental NGOs (WWF-Europe, RSPB-European Policy), EC – Brussels.
2001		EU, World	IPCC	WG II Corresponding author	3rd Assessment - IPCC Working Group II, Fisheries and Aquaculture Socio-Economics Chapter 5 (World) and Chapter 10 (Europe).
2001		EU	EC Research DG, Brussels Belgium	Rapporteur and report editor	New Concepts and Indicators in Fisheries and Aquaculture. Workshop
2001		UK, Ireland, France, Netherlands	Thames Estuary Partnership- EC Interreg II project	Consultant	Port-Cities project Coordination of the case studies delivery for the Sustainable Development of Port-Cities project (partner ports: Rotterdam-industrial ecology, Cork, Dunkirk-Environmental Management Systems, Le Havre-Environmental regulations, Rouen-integrated planning).
2001		EU	EC Framework 5 Research, Montpellier, France.	Expert	AXES workshop presentation in Montpellier (France). Invited presentation: Environmental externalities linked to the fisheries and aquaculture sector at regional level.
2001		UK	Thames Estuary Partnership (CE-Interreg II)	Consultant	Survey of the Greater Thames Estuary Fisheries Knowledge, based on interviews and meetings with

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					commercial fishermen along the coasts of Kent and Essex. Essex Estuaries Initiative (Colchester Borough Council), UK.
2001		UK	UK Fisheries Ministry - Defra, Poseidon ARM Ltd	Consultant, team of three	Fish prices and electronic auctions. Analysis of Government price statistics and interviews of fishermen, fish salesmen, fish buyers and fish market agents around the UK and the EU: part of team of three, in charge of Nephrops and Scottish ports. MAFF Economic Research.
2001		World	IUCN/SSC Marine Turtle Specialist Group, USA.	Translator	Translation of the IUCN Handbook Research and Management Techniques for the Conservation of Sea Turtles (English into French, 235pp.).
2000		EU	EC DG Environment, WWF-UK	Consultant	Integrating Biodiversity and European Fisheries Policy: Rebuilding a healthy and productive ecosystem. Briefing Paper.
2000		UK Falkland Islands	Thomas Cooper & Stibbard, Maritime Lawyers, London.	Expert	Expert to the High Court in the Factortame case regarding damages owed by Her Majesty's MAFF to Spanish vessels operating in the Falkland Islands in 1989.
2000		EU	EC DG Environment	Expert	ACACIA Report chapter on the Impact of climate change on European fisheries, within a multi-disciplinary team Concerted Action.
2000		EU	World Wide Fund for Nature – UK.	Consultant	Regionalisation of the EU Common Fisheries Policy: Report and briefing notes.
1999		Philippines	ICLARM	Resource person	FISHBASE Biodiversity Project Steering Committee. Manila.
1998		UK	Institute for European Environmental Policy (WWF – UK funding).	Expert	Financial Implications for Fisheries Recovery Plans. Research and Project report on the use of EU Structural Funds in the Scottish Highlands and Islands Fisheries Sector.
1998		Mauritania	Mauritanian Research Institute CNROP (FAO funding)	1 of 3 Workshop coordinator	Stock Assessment and Fisheries Management in the Mauritanian EEZ, Islamic Mauritanian Republic.
1998		UK	Marine Education and Conservation Trust.	Lead researcher	Analysis of the interactions between European, National and Local Fisheries Policies in the United Kingdom and their implications for fisheries management.
1998		UK	WWF – UK	Lead researcher	Feasibility of a greater local involvement in Fisheries' Management in the UK: Two case studies (Pittenweem, Scotland and Maryport, Cumbria). World Wide Fund for Nature.
1997		UK	Local Authority Fife Council, Scotland.	Lead researcher	Networking small fishing co-operatives through the internet: Feasibility study.
1997		Mauritania	Ministère du Plan, Fonds Stabex, Ifremer FR	Team Leader, team of six	Institutional strengthening of the Industrial Fisheries Directorate, Ministry of Fisheries, Mauritania. Mauritanian Ministry of Planning (EU STABEX fund).
1996		EU	WWF-UK	Consultant	Analysis of on-going structural adjustments of the European Fishing Fleet.
1996		UK-EU	WWF-UK	Consultant	Costs and benefits of the European bilateral Fisheries Agreements. Results presented to the House of Lords' European Affairs Committee, highlighting potential efficiency improvements to the current policy.
1994-97		UK Falkland Islands	The Falkland Islands Government, Fisheries Department.	Fisheries advisor	Development of Fisheries Management models for the Falkland Islands Fisheries Department, covering the determination of allowable effort, catch quota and valuation of fishing licences.
1994		UK	Ministry for Agriculture, Food, and Fisheries (now DEFRA) and NERC	Lead researcher	Analysis of long term pike and perch population changes from Lake Windermere to establish the

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					extent of long-term natural variations in UK freshwater fish populations.
1994		Vietnam	Private Fishing Group, desk study.	Consultant	Expert analysis of existing management measures and the commercial potential for the offshore shrimp fishery in the Vietnam Exclusive Economic Zone (EEZ).
1993		Mauritania	Ministère du Plan, Fonds Stabex, MRAG Ltd	Team Leader, team of three.	Expert in Strengthening of Mauritanian Fisheries Research Institute CNROP. Recommendations on the structure (including details such as staff pay packages) and research programming of the Institute. Mauritanian Ministry of Planning (EU STABEX fund).
1993		Mauritania	Ministère du Plan, Fonds Stabex, Maxwell Stamps, UK	Consultant, team of two.	Reform of Fisheries Sector fiscal system. Mauritanian Ministry of Planning
1992-96		Norway	Norwegian Fisheries Research Council (NFFR)	Lead researcher	Interactions between seals and fisheries in the Oslofjord, Norway, notably as a consequence of the viral epidemic that had killed two thirds of the seal colony in the region (5 years).
1992		UK	Scottish Office Agriculture, Fisheries and Food (now SEERAD).	Lead researcher	Analysis of fish disease prevalence rates in the North Sea (Development of a sampling strategy for parasite monitoring in Scottish cod).
1991		South-East Asia	Overseas Development Administration (now DfID), Aquaculture Programme.	Lead researcher	Statistical bases to detect infection and estimate prevalence in tropical aquaculture. Published as a Handbook of statistical guidelines and methods for the use of fish farmers and quarantine installations.
1986 -94		UK	Department of Agriculture, Food and Fisheries for Scotland (now SEERAD), Aberdeen. Renewable Resources Assessment Group, Imperial College	Lead researcher	Analyses of the population dynamics of sealworm ( <i>Pseudoterranova decipiens</i> ) infections in Atlantic cod ( <i>Gadus morhua</i> ). Population models to explain past and present trends in parasitic infections in cod landed at British ports.
1980 -85		France	Division Qualité des Eaux, Pêche et Pisciculture, (CEMAGREF) ISTE, Ministère de l'Agriculture Paris et Lyon, France.	Scientific Officer, Head of Data Analysis Laboratory, Freshwater Quality, Fisheries and Aquaculture Division	In charge of Data analysis and databases, training and computer centre Data management, population dynamics, aquaculture
1985		France	National Electricity Company (EDF).	Post-graduate researcher	Population dynamics of Northern pike ( <i>Esox lucius</i> ) in the Seine near the Montereau power plant (upstream Paris).
1981		France	French National Research Council (DGRST).	Post-graduate researcher	Modelling temperature changes, eutrophication and algae growth in lakes.

## 15. Publications (selection)

Megapesca, 2017. Cost/Benefit Analysis and Impact of Compliance and Non-compliance with Sanitary and Phytosanitary Requirement for CARIFORUM Countries, 98p. (**S. des Clers**, main author).

<http://repositorio.iica.int/bitstream/11324/4190/1/BVE17089204i.pdf>

**des Clers, S.** 2016. Pre-assessment update and Fisheries Improvement Plan (FIP) Senegal deepwater shrimp fishery, Ministère de la Pêche et de l'Economie Maritime. Cellule de Planification, République du Sénégal. 47p. (in French)

COFREPECHE, MRAG, NFDS et POSEIDON, 2015. Rapport d'analyse de la dynamique économique des flottes thonnières de l'Union européenne impliquées dans des activités de pêche encadrées par des ORGP ou par des APP. Contrat cadre MARE/2011/01 - Lot 3, contrat spécifique n° 09. Bruxelles, 110p. (**S. des Clers**, main author).

[http://ec.europa.eu/fisheries/documentation/studies/tuna-fleets-rfmo-fpa/doc/eu-tuna-fleet-2015\\_fr.pdf](http://ec.europa.eu/fisheries/documentation/studies/tuna-fleets-rfmo-fpa/doc/eu-tuna-fleet-2015_fr.pdf)



- des Clers, S.** 2015. Mission reports and contributions to Aide-Mémoires and Project Appraisal Documents (PADs) South West Indian Ocean Fisheries Governance and shared growth program - SWIOFish to World Bank Technical Team Leader, Xavier Vincent, through FAO-TCIA on costings, budgets, financing and expected economic benefits of the SWIOFISH regional project and nationally for Madagascar (SWIOFISH 2).
- des Clers, S.** 2014. Mission reports and contributions to Aide-Mémoires and Project Appraisal Documents (PADs) South West Indian Ocean Fisheries Governance and shared growth program - SWIOFish to World Bank Technical Team Leader, Xavier Vincent, through FAO-TCIA on costings, budgets, financing and expected economic benefits of the SWIOFISH regional project and nationally for Comoros, Mozambique and Tanzania.
- des Clers S., M. Ngoile and C. Breuil,** 2013. EAF-Nansen project: Strengthening the Knowledge Base for and Implementing an Ecosystem Approach to Marine Fisheries in Developing Countries, FAO Evaluation report (GCP/INT/003/NOR) and 10 annexes.
- des Clers S., K. Kelleher and O. DoPorto.,** 2013. Mid-Term Evaluation of the EU-funded SmartFish programme (Phase I) and Formulation of a second phase. Framework Contract EuropeAid/127054/C/SER/Multi. Lot 1: Rural Development, Specific Contract N°: 2012/299266 – Version 1, 98p.
- des Clers, S.** 2012. The art and sciences of setting TACs. Why conscientious research and modelling is not enough. Invited contribution, Ocean Challenge, Vol. 19, Spring 2012.
- Orr, H.G., Simpson, G.L., **des Clers, S.,** Watts, G., Hughes, M., Hannaford, J., Dunbar, M.J., Laize, C., Wilby, R.L., Battarbee, R.W., Evans, R. & Phillips, H. (in review) Evidence of widespread and rapid warming of rivers. *Hydrological Processes*.
- des Clers, S. and F. Costa.** 2012. Fiche d'Identification, Fiche d'Action et Rapport de Formulation. Mission d'identification et de formulation du Programme Diversification de l'Economie - Secteur Pêche et Aquaculture, Algérie, pour le consortium Megapesca Lda, Particip GmbH et Cardno Emerging Markets (UK) Ltd, Cardno Agrisystems Consortium, projet Lot 1 Développement Rural, Contrat Spécifique N°: 2011/264880, 142p.
- Lutchman, I., **des Clers, S.,** Volkery, A., Newman, S., Hjerp, P. and Ten Brink, P., 2011. Perspectives for the new European Fisheries Fund. IEEP Study for the European Parliament, Directorate General for Internal Policies, Policy Department B: Structural and Cohesion Policies – Fisheries, IP/B/PECH/IC/2010-157 A, 92p.
- des Clers, S.** 2011. Socio-economic Study of the Montenegro Fishery Sector, report to the Ministry of Agriculture, project Europeaid/128947/C/SER/ME /, 56p.
- Lorance, P., Agnarsson, S., Damalas, D., **des Clers, S.,** Figueiredo, I., Gil, J., and Trenkel, V. M. 2011. Using qualitative and quantitative stakeholder knowledge: examples from European deep-water fisheries. – *ICES Journal of Marine Science*, 68: 1815–1824.
- des Clers, S.,** 2010. Economics of fisheries rebuilding plans – Northern bluefin tuna Case Study, 17p. to be published as part of OECD review.
- des Clers, S.,** 2010. The Economic and Social aspects of the Inshore Fishing Fleet of the Greater Thames Estuary with special reference to Quota Species. MacAlister Elliott & Partners (MEP Ltd) Report to Defra Fisheries Challenge Fund, 43p.
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