



2017-07-06

## MSC Fishery Surveillance Announcement

### ISF Iceland saithe and ling

<b>Name of Fishery</b>	ISF Iceland saithe and ling	
<b>Surveillance level and type</b>	Level 4 surveillance: off-site surveillance	
<b>Surveillance number (tick one)</b>	1st Surveillance	
	2nd Surveillance	
	3rd Surveillance	X
	4th Surveillance	
	Other (expedited etc)	
<b>Proposed Team Leader</b>	<p><b>Dr Jo Gascoigne – Team Leader, on-site</b>  <b>Primarily responsible for Principle 2</b></p> <p>Jo Gascoigne has a degree in Zoology from Cambridge University in the UK, and a PhD in marine conservation biology from the Virginia Institute of Marine Science (VIMS) in the US, based around modelling and experimental studies on the population dynamics of exploited marine populations, particularly shellfish. She worked as a postdoctoral researcher and Research Lecturer at Bangor University in the UK for four years, before becoming an independent consultant. Dr Gascoigne has conducted dozens of research projects, reviews and policy reports dealing with issues of sustainability, environmental impact and management practices of numerous fisheries, for private consultancies, government bodies and the EU. She has co-authored over 15 peer reviewed articles on the population dynamics, biology and ecology of marine organisms. In the last 8 years Dr Gascoigne has served as independent expert in dozens of fisheries evaluation, marine ecology and aquaculture projects. She has participated as Team Leader in over 13 MSC full assessments, including three Icelandic fisheries certified in 2014 (Icelandic gillnet lumpfish, ISF Iceland saithe and ISF golden redfish). Furthermore, she has conducted numerous MSC pre-assessment studies. Her assessment experience ranges from crustaceans and molluscs to small pelagics, tuna and demersal fish species.</p> <p>Vottunarstofan Tún confirms that Dr Gascoigne meets the fishery team leader qualification and competency criteria specified in Annex PC, Table PC1, in particular:</p> <ul style="list-style-type: none"> <li>- has a university degree (Ph.D.) in marine biology and resource management;</li> <li>- has over five years' experience in the fisheries sector related to the tasks under her responsibility;</li> <li>- has passed MSC team leader training;</li> <li>- meets the qualifications and has the competencies specified in section 2 of Table PC1;</li> <li>- has undertaken 2 MSC fishery assessments or surveillance site visits as team member in the last 5 years;</li> <li>- has the experience in applying different types of interviewing and facilitation</li> </ul>	

	<p>techniques and the ability to effectively communicate with the client and other stakeholders.</p> <p>Furthermore, Dr Gascoigne has the qualifications and competencies required for serving as an assessor on Principle 2 as outlined in Annex PC, Table PC3.</p> <p>Vottunarstofan Tún confirms that Dr Gascoigne has no conflicts of interest in relation to the fishery under surveillance.</p>
<b>Proposed team members</b>	<p><b>Thomas H. Jagielo– team member</b></p> <p><b>Primarily responsible for Principle 1</b></p> <p><b>Tom Jagielo</b> has a wide breadth of experience in marine fish science, habitat studies, and oceanography. He formed his own firm in 2008 to provide consulting services in quantitative fisheries science. Previously he served for 24 years with the Washington Department of Fish and Wildlife, and 6 years with the Fisheries Research Institute at the University of Washington in Seattle. He has specialized in groundfish stock assessment and survey design, adapting state of the art tools and methods to assess marine fish populations for sustainable fisheries management. He has produced groundfish stock assessments used by the Pacific Fishery Management Council, including analysis of lingcod, black rockfish, and yelloweye rockfish populations. Tom has experience working with government agencies, commercial and recreational fisheries groups, Native American tribes, community organizations, and both national and international advisory groups. He has received appointments to the Scientific and Statistical Committee of the Pacific Fishery Management Council, the Technical Subcommittee of the US-Canada Groundfish Committee, the Pacific Coast Ocean Observation System, and other workshop panels and review bodies. He has published in peer-reviewed journals and symposium proceedings, and has presented papers at national and international meetings. Tom received a B.S. degree in Biology from the Pennsylvania State University, and a M.S. degree in Fisheries from the University of Washington, where he also conducted post M.S. graduate studies in fisheries population dynamics and parameter estimation. In addition to serving as an MSC Surveillance Team Member/Auditor (P1, P2 and P3 expert) for various stocks, he has experience in providing MSC Peer Reviews on the West Coast-US (Pacific hake, Limited Entry groundfish, sablefish, Pacific halibut), West Coast-Canada (dogfish shark, sablefish, Pacific halibut), Alaska (sablefish, Pacific halibut, pacific cod, flatfish), and Australia (blue grenadier).</p> <p>Vottunarstofan Tún confirms that Mr Jagielo meets the fishery team member qualification and competency criteria specified in Annex PC, Table PC2, in particular:</p> <ul style="list-style-type: none"> <li>- has a university degree in fisheries science and has completed post-MS graduate studies of fisheries population dynamics;</li> <li>- has over five years’ experience in the fisheries sector related to the tasks under his responsibility;</li> <li>- has undertaken 2 MSC fishery assessments or surveillance site visits as team member in the last 5 years;</li> <li>- has passed MSC team member training course.</li> </ul> <p>Mr Jagielo has the qualifications and competencies required for serving as an assessor on Principle 1, as outlined in Annex PC, Table PC3.</p> <p>Vottunarstofan Tún confirms that Mr Jagielo has no conflicts of interest in relation to the fishery under surveillance.</p>

	<p><b>Dr Ásgeir Daniélsson – team member, on-site</b>  <b>Primarily responsible for Principle 3</b></p> <p>Dr Ásgeir Daniélsson graduated in 1985 with Ph.D. in Economics from the University of Manchester. Dr Daniélsson currently holds the position of head of research and forecasting in the Economics department of the Central Bank of Iceland. He has lectured on microeconomics, statistics, macroeconomics and fisheries economics at the University of Iceland and University of Akureyri. He has over 25 years' experience of macroeconomic analysis of the Icelandic fisheries for the Central Bank of Iceland and previously the National Economic Institute. He has been involved in and advised numerous national and international task forces on the utilization of living marine resources and fisheries management. From 1993-1994 and 2001-2004 he was a member of a committee, set up by the Icelandic Minister of Fisheries, formulating a long term policy on exploitation of fish stocks. He has worked with the "Nairobi group" set up by the UN's UNEP and UNSD, and was later commissioned by the FAO to provide a guide on the incorporation of environmental factors into national accounting with special regard to fisheries and the living marine environment.</p> <p>Dr Daniélsson has written and co-authored several peer-reviewed publications, as well as research reports on the utilization of fish stocks in Icelandic waters, ITQ efficiency and environmental- and economic accounting of fisheries. During the last three years, Dr Daniélsson has served as Principle 3 expert for several MSC fishery assessments, including the cod, haddock, saithe, golden redfish, lumpfish and herring fishery assessments.</p> <p>Vottunastofan Tún confirms that Dr Daniélsson meets the fishery team member qualification and competency criteria specified in Annex PC2, Table PC2, in particular:</p> <ul style="list-style-type: none"> <li>- has a university degree (Ph.D.) in economics;</li> <li>- has over five years' experience in the fisheries sector related to the tasks under his responsibility;</li> <li>- has passed MSC team member training;</li> <li>- has undertaken 2 MSC fishery assessments or surveillance site visits as team member in the last 5 years;</li> </ul> <p>Furthermore, Dr Daniélsson has the qualifications and competencies required for serving as an assessor on Principle 3 as well as current knowledge of the country, language and local fishery context, as outlined in Annex PC3, Table PC3.</p> <p>Vottunastofan Tún confirms that Dr Daniélsson has no conflicts of interest in relation to the fishery under surveillance.</p>
	<p><b>Louise le Roux – team member, on-site</b>  <b>CoC and RBF qualifications, current knowledge of the country, language and local fishery context</b></p> <p>Louise le Roux graduated in 1997 in Fisheries Biology from the University of Iceland. In 1993-1998 she was in charge of research on the deep-sea red crab at the Namibian Ministry of Fisheries and Marine Resources. Duties included administration, management advice and stock assessment. In 1998-2000 she lectured and was involved in the development and teaching of various courses for the Natural Resources B.Sc. program on fisheries biology, management and population dynamics at the University of Namibia. She also briefly taught for the Fisheries Training program at the United Nations University in Iceland. From 2001 Mrs le Roux has worked on genetic research, currently as R&amp;D manager. Louise le Roux has attended MSC CAB training seminars where the assessment methodology, certification requirements and the use of the Risk Based Framework have been covered. She has served on Tún's fisheries certification</p>

	<p>committee and is currently deputy coordinator for Tún's sustainable fisheries scheme, where her responsibilities include the leading of expert teams conducting pre- and full assessments.</p> <p>Vottunarstofan Tún confirms that Mrs le Roux meets the fishery team member qualification and competency criteria specified in Annex PC2, Table PC2, in particular:</p> <ul style="list-style-type: none"> <li>- has a university degree in fisheries biology;</li> <li>- has over five years' experience in the fisheries sector related to the tasks under her responsibility;</li> <li>- has passed MSC team leader and RBF online training;</li> <li>- has undertaken 2 MSC fishery assessments or surveillance site visits as team member in the last 5 years;</li> </ul> <p>Furthermore, Mrs le Roux has the qualifications and competencies required for serving on the assessment team for input on chain of custody and application of risk based framework, as well as current knowledge of the country, language and local fishery context, as outlined in Annex PC, Table PC3.</p> <p>Vottunarstofan Tún confirms that Mrs le Roux has no conflicts of interest in relation to the fishery under surveillance.</p>
<b>Audit/review time and location</b>	<p>19-21 September 2017</p> <p>Off-site surveillance audit</p>
<b>Assessment/review activities</b>	<p>The assessment team will engage with the client, conduct stakeholder interviews if necessary, and review among other things the following:</p> <ul style="list-style-type: none"> <li>- any significant changes to the fishery, its management and science,</li> <li>- performance in relation to conditions and recommendations relevant to the fishery, and</li> <li>- any developments or changes within the fishery that may impact traceability and segregation of MSC certified products.</li> </ul>

Vottunarstofan Tún will be conducting an off-site surveillance audit **during the period 19-21 September 2017**.

We would like to invite stakeholders with an interest in this fishery to contact the lead assessor, Dr. Jo Gascoigne ([jo.gascoigne@cantab.net](mailto:jo.gascoigne@cantab.net)) or to the assessment secretary, Mrs Lovísa Guðmundsdóttir ([log@tun.is](mailto:log@tun.is)), if they wish to submit comments for consideration by the surveillance team or to ask to speak to members of the surveillance team.

Stakeholders wishing to submit any written information and/or wishing to meet (by phone or skype) with members of the assessment team in association with this surveillance audit are asked to send their information/requests to the Tún contact below **by 17.00 GMT on Tuesday 29 August 2017**, providing the following information:

- (1) their name and contact details,
- (2) their association with the fishery under surveillance and
- (3) the issues that they wish to discuss.

Information about this fishery can be accessed on MSC's website: <https://fisheries.msc.org/en/fisheries/isf-iceland-saithe-and-ling/@assessments>.

The MSC has developed a guide for stakeholder input, available at <http://www.msc.org/documents/get-certified/stakeholders> and a template for stakeholder response available at [http://www.msc.org/documents/get-certified/stakeholders/template\\_for\\_stakeholder\\_input](http://www.msc.org/documents/get-certified/stakeholders/template_for_stakeholder_input).

You may use the template or provide your response in any other format.

Any enquiries, request for meeting or other information, may be sent to the following:

Vottunarstofan Tún ehf.

Parabakki 3, IS-109 Reykjavík, Iceland

Tel.: +354 511 1330

[log@tun.is](mailto:log@tun.is)

**Submitted by:** Dr. Gunnar Á. Gunnarsson ([tun@tun.is](mailto:tun@tun.is)) & Mrs Lovísa Guðmundsdóttir ([log@tun.is](mailto:log@tun.is))

**Date:** 6 July 2017

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# Appendix: CVs of Team Leader and Team Member

## Jo Gascoigne, Team Leader & P2 expert

<b>Position:</b>	Expert in fisheries science and sustainability
<b>Key skills:</b>	PhD in marine conservation biology (population dynamics and stock assessment); expert in: fisheries evaluation and sustainability; fisheries stock assessment; marine ecology and conservation biology; shellfish culture and sustainability; fishing techniques and practices.
<b>Languages:</b>	English (native), French (fluent spoken and written), Spanish (medium reading, low spoken)

### Employment

**2007 – date: Independent expert in fisheries evaluation, marine ecology and shellfish culture.**

#### Marine Stewardship Council (MSC) fisheries assessments

Expert (Principles 1, 2 and 3) and team leader for Certification Body MacAlister Elliott and Partners (MEP). Assessments conducted in English and French. Assessments also include a detailed review of traceability.

Fisheries certified subject to ongoing auditing:

- Euronor saithe (France, Principle 2 (P2) expert and team leader)
- Kerguelen toothfish (Réunion, P1 expert and team leader)
- Scottish saithe (P2, team leader)
- Cie des Pêches St. Malo and Scapêche saithe (France, P2, team leader)
- UK Fisheries/DFEU/Doggerbank saithe (UK and Germany, P2 and team leader)
- Menai Strait mussels (UK, P1 and team leader)
- Basse Normandie and Jersey lobster (France / UK, P2 and team leader)
- Tristan da Cunha rock lobster (UK Overseas Territory / South Africa, P1 and team leader)
- Cornish sardines (UK, audits only)
- Euronor and Cie des Pêches St.Malo Arctic cod and haddock (France, P1 and team leader)
- UK Fisheries/DFEU/Doggerbank Arctic cod and haddock (UK and Germany, P1 and team leader)
- Exmouth mussels (UK, P3 and team leader)

Team leader 'on loan' to Certification Body Vottunarstofan Tún ehf. (Iceland)

- Icelandic redfish (certified)
- Icelandic saithe (certified)
- Icelandic lumpfish (certified)

Fisheries subject to re-assessment:

- Vietnam Ben Tre clams (P1 and team leader)
- North Sea herring (various EU countries, joint P1)
- Scottish North Sea haddock (P2 and team leader)

Fisheries under evaluation:

- Cook Islands albacore longline (joint P1 and team leader)
- Normandy whelks (France, P1 and team leader)
- Boulogne herring (France, P3 and team leader)
- Atlanto-Scandian herring (various EU countries, P1)
- Walker Seafoods albacore, yellowfin, swordfish and mahi-mahi (Australia, joint P1 and team leader).

- FROM Nord sole (France, joint P1 and team leader)
- Scapêche black scabbardfish, blue ling and roundnose grenadier (France)
- Crozet toothfish (France, P2)

Note: Details of all these assessments, including project reports where available, are available here:

<http://www.msc.org/track-a-fishery>

#### MSC pre-assessments (2008-date)

MSC pre-assessment studies for numerous fisheries, including demersal fish, tunas, small pelagics, highly migratory species, molluscs, crustaceans, freshwater fish; locations including France (including DOMs), UK, Spain, Germany, Greece, Croatia, Mauritius, Southern Africa, West Africa, Pacific Ocean, Indian Ocean, Southern Ocean, South America, East Asia, transboundary (various clients – details and reports confidential to the clients) (MEP). Include assessment of the fishery in relation to the MSC standard, stakeholder evaluation and review of the supply chain.

#### Fisheries improvement projects (FIPs)

- Consultant for Fisheries Improvement Programme (FIP) for Moroccan sardine (client: Aldi and others, 2014 ongoing). Activities to date – pre-assessment updated and improved, action plan prepared and agreed, including an overall project workplan and a more detailed workplan for Year 1; consultation with stakeholders ongoing. Project in implementation phase. FIP framework – SFP.
- Lead consultant for FIP for Kavala sardine and anchovy purse seine fishery, Greece (MEP, WWF Greece, 2013-14). Activities – pre-assessment and draft scoping document prepared, FIP workshop held, detailed action plan finalised. FIP framework – WWF.

#### Other ongoing projects

- Auditor for ISSF Proactive Vessel Register (for responsible tuna fisheries) (MRAG Americas, 2015 ongoing)
- Study for WWF on traceability issues in tuna FIPs and how traceability can be successfully incorporated into these projects (WWF, 2015 ongoing)

#### **Completed projects:**

- Scoping study for possible WWF support of improvements to tuna pole-and-line fishery in Lakshadweep islands, India (WWF, 2014-15)
- Consultant for development of improvement fisheries assessment methodology for the FishSource online assessment system (SFP, 2014 [www.fishsource.org](http://www.fishsource.org))
- Evaluation of turtle bycatch in fisheries around Masirah Island, Oman, by use of fishermen questionnaires (Five Oceans LLC, Environment Society of Oman, 2013-15).
- Review of UK nephrops, scallop, crab and whelk fisheries (MEP, 2014)
- Review of options for MSC certification / FIPs in the Mauritian tuna sector (MEP / WWF 2013).
- Preparation of management plans for all the main marine fisheries in Guyana, following a participatory methodology – including review of available data, consultations with stakeholders, facilitation of community workshops and validation workshop for all stakeholders. Training also provided to the Fisheries Department on fisheries management strategies, the content and role of fisheries management plans and the ecosystem approach to fisheries management (Sofreco / EU, 2013).
- Drafting of 25-year Policy and 5-year Action Plan for fisheries sector in Dominica, as part of EU ACP Fish II programme. Includes stakeholder and fisher consultations and harmonisation with similar work in St. Vincent and Grenada, as well as with regional Caribbean initiatives (Sofreco / EU, 2012).
- Review of issues around management of scallop fisheries as part of revision of scallop regulations in Scotland (Poseidon Ltd, 2013).
- Assessments of sustainability and management of various fisheries for fisheries improvement programmes and 'good fish guide' for WWF Hong Kong (MEP 2012-13).
- Review of UK scallop fisheries; current situation and future prospects (MEP, 2012)
- Evaluation of fisheries losses (oyster and shellfish growers and shellfish fishermen) following wrecking of TK Bremen at Erdevén, South Brittany (Homarus, 2012-14).

- Review of impact of a shipping accident on the Tristan da Cunha lobster fishery – panel chair (Govt. of Tristan da Cunha, 2011, 2012)
- MSC assessment of Scottish North Sea *Nephrops* (Ps 2 and 3) – subsequently withdrawn from the assessment process (MEP, 2011).
- Evaluation of Scottish nephrops, crab and scallop industries and fisheries: current situation and future prospects under various political scenarios (MacAlister Elliott and Partners, 2011);
- Review of environmental benefits of the MSC programme (part of consortium led by MRAG, 2011)
- Review of application procedures and requirements for aggregate dredging in France (Homarus, 2011).
- Review of sustainability issues in European eel fisheries and production, including drafting of sustainability standard and evaluation of eel fisheries and farms under the standard (see [www.sustainableeelgroup.org](http://www.sustainableeelgroup.org), 2010-2014).
- Report on policy hurdles and tools to support EU fisheries in moving towards low-carbon, low-impact practices – part of CFP reform consultation process (Seas at Risk, 2010).
- Review of the Omani lobster fisheries with a view to improving management practices and economic output per lobster (MacAlister Elliott and Partners, Five Oceans LLC, 2009-10).
- Review of fisheries impacts of oil spill, Côte d'Ivoire (Homarus Ltd., 2008-9)
- Rapid fisheries assessments for various fish and shellfish species in Asia, Europe and North and South America (WWF Japan, Singapore, UK);
- Quantitative survey of fisheries in the Thames estuary (MacAlister Elliott and Partners, 2008-9)
- Literature review of marine ecology at proposed breakwater sites, Yemen (Five Oceans LLC, 2009)
- Review of techniques for assessing catch weight on board EU fishing boats (interviews with French, Belgian and Dutch vessel owners, producer organisations and fisheries managers) (EU, Marine Resources Assessment Group, 2008)
- Review of oceanographic and marine data availability in France, with analysis of data policies of main data holders (EU, Marine Resources Assessment Group, 2008)
- Marine benthic component of the Best Practical Environmental Option report for disposal of the wreck of the Napoli (Homarus Ltd, 2008)
- Evaluation of yellow mullet fishery in the Parc National Banc d'Arguin, Mauritania (one of Africa's largest marine protected areas); a case study for the MSC risk-based framework methodology for data-deficient fisheries (MacAlister Elliott and Partners, 2007-8)
- Review of best practice for ecotourism development in sensitive coral reef environments (Five Oceans LLC, Oman, 2007)
- Developing a management and monitoring programme for a marine protected area, Oman (Environment Society of Oman, 2007)
- Sustainability and carrying capacity of bottom mussel culture, Ireland (Bord Iascaigh Mhara, Poseidon Aquatic Resources, 2007)
- Incorporating aquaculture into the framework of ecosystem fisheries management (EU, Poseidon Aquatic Resources, 2007)
- Conflicts between dredging and shellfish culture in Poole Harbour (Homarus Ltd, 2007).
- EU fisheries policy and recruitment (Homarus Ltd, 2007).
- Review of fisheries activity in the Bay of Cadiz, Morocco and the Canary Islands (MacAlister Elliott and Partners, 2007)
- Various due diligence studies for investments in the fisheries and seafood sectors
- Various short studies on the environmental impacts of cable and pipeline laying, shipping accidents and dumping at sea

**2003 – 2007: Postdoctoral Research Fellow / Research Lecturer, School of Ocean Sciences, University of Wales Bangor.**

Research projects:

- Carrying capacity of the Menai Strait for mussel culture (includes informal co-supervision of a PhD student). Combining the study of physical processes (net flow, turbulent mixing and sediment transport) and biological processes (chlorophyll concentration and depletion, mussel feeding behaviour, density dependence and self-organised patterning, interspecific competition between suspension feeders) to



assess the carrying capacity of the system for shellfish culture in the Menai Strait. Collaborations developed with Johan van de Koppel (Netherlands Institute for Ecology), John Widdows (Plymouth Marine Lab), Andrew Folkard (Lancaster Univ.), Rom Lipcius (Virginia Institute of Marine Science) and the Countryside Council for Wales.

- The ecology of seed mussel beds: assessing the importance of ephemeral seed mussel settlement for vertebrate and invertebrate predator populations and the ecological consequences of partial harvesting of these beds by the mussel industry. Collaboration with the NW and N Wales Sea Fisheries Committee.
- Recovery of populations of scallops, sea fan and other benthic species in fisheries closed areas, Lyme Bay (NERC grant with two collaborators).

#### Teaching:

- M.Sc. Physical Oceanography, Marine Biology and Shellfish Biology: Module on the interaction of physical oceanography and biology (lectures, field trip and data analysis)
- M.Sc. Conservation and Resource Management: Population consequences of rarity, extinction risk (lectures)
- Undergraduate Marine Biology: Allee effects in fisheries (2<sup>nd</sup> year lectures), Invertebrate fisheries and management of artisanal fisheries (3<sup>rd</sup> year lectures).

#### **2002 – 2003: Teaching assistant, Virginia Institute of Marine Science, USA**

Teaching assistant to post-graduate core courses in statistics and experimental design, marine ecology and oceanography. Gave lectures and ran practicals and Q&A sessions, gave tutorials, set and marked assignments and exams and helped students plan project field work.

#### **1995 – 1999: Marine biologist, MacAlister Elliott and Partners Ltd. UK**

Biologist in the environment department of a marine consultancy, involved in the following projects:

- Stock assessment and management of the Bahamian spiny lobster, queen conch and Nassau grouper fisheries (lead consultant). Bahamian Department of Fisheries and the Bahamas Reef Environment Education Foundation (BREEF).
- Community-driven design of a marine reserve network for central Andros Island, Bahamas (lead consultant). BREEF and a central Andros community group.
- Design of a fisheries development project, Eritrea (environmental specialist). Funded by FAO.
- Preliminary environmental impact assessment for container port development, Aden, Yemen (team leader). Funded by private sector.
- Planning and environmental impact assessment for harbour improvements, Cornwall (lead consultant). Collaboration with fishermen's group.
- Fisheries development, management and infrastructure provision, Yemen (UK project manager). Funded by World Bank and EU.

#### **1994 – 1995: Intern, European Commission, Brussels and Tanzania**

Unit for natural resources development projects for Eastern and Southern Africa. Bilingual working environment (English and French).

#### **Education**

##### **Ph.D. 1999 – 2003**

A theoretical and experiment study of Allee effects. A study on population dynamics, reproductive biology, sustainability of fisheries and extinction risk in marine populations, with specific focus on the queen conch *Strombus gigas*.

Marine Conservation Biology Group, Virginia Institute of Marine Science (VIMS), College of William and Mary, USA. Field work at the Caribbean Marine Research Centre, Bahamas, with extensive scientific diving. Also field assistant on project on physical-biological interactions in coral metabolism, involving saturation diving.

##### **M.Phil. 1994**

Ecological and economic impacts of forestry in the Flow Country, Scotland.  
Department of Geography, University of Cambridge, UK.

##### **M.A. 1990 – 1993**

Natural Sciences (Zoology), Corpus Christi College, University of Cambridge, UK.

### Grants, fellowships and awards

- British Ecological Society Small Grant for study of self-organisation in seagrass beds, 2006
- Double Allee effects in the endangered island fox – successful postdoc application to French govt. with Franck Courchamp, 2003 (accepted post in Bangor instead)
- Zeigler Student Achievement Award, VIMS, 2003
- Winner, New Scientist / Wellcome Trust Millennium Essay Competition, 2002
- International Women's Fishing Association Ryan Kelley Memorial Scholarship, 2001
- International Society for Reef Studies PhD Fellowship, 2000
- Hargis Fellowship, VIMS, 2000
- Corpus Christi College Scholarship 1992-3

### Field skills

- Chief scientist on five research cruises on the *RV Prince Madog*.
- Experienced scientific diver (more than 300 dives including fish, benthos and habitat surveys). Training in saturation diving and two 7-day stays in the Aquarius underwater habitat. Nitrox certified.
- Experienced small boat operator.
- Experience of multiple marine field instruments and sampling techniques including towed and fixed camera gear, various fishing gears, coring, sidescan sonar, *in vivo* and *in vitro* fluorometry, ADCPs and CTDs.

### Peer reviewed publications

*Note: Non-peer reviewed publications such as project reports are not included here. More information about any of the projects listed above is available on request.*

Gascoigne J., Berec L., Gregory S. and Courchamp F. 2009. Dangerously few liaisons: a review of mate-finding Allee effects. *Population Ecology* 51(3), 355-365.

Folkard A.M. and Gascoigne J.C. 2009. Hydrodynamics of discontinuous mussel beds: laboratory flume simulations. *Journal of Sea Research* 62, 250-257.

Van de Koppel J., Gascoigne J., Theraulaz G., Rietkerk M., Mooij W.M. and Herman P.M.J. 2008. Experimental evidence for spatial self-organisation and its emergent effects in mussel bed ecosystems. *Science*, 322, 739-742.

Courchamp F., Berec L. and Gascoigne J. 2008. Allee effects in ecology and conservation. Oxford University Press. Favourably reviewed in *TREE* and *PLoS Biology*. See <http://www.oup.com/uk/catalogue/?ci=9780198570301>.

Gascoigne J., Beadman H.A., Saurel C. and Kaiser M.J. 2005. Density dependence, spatial scale and patterning in sessile biota. *Oecologia* 145, 371-381.

Gascoigne J. and Lipcius R.N. 2005. Periodic dynamics in a two-stage Allee effect model are driven by tension between stage equilibria. *Theoretical Population Biology* 68, 237-241.

Gascoigne J. and Lipcius R.N. 2004. Conserving populations at low abundance: delayed functional maturity and the Allee effect in reproductive behaviour of the queen conch *Strombus gigas*. *Marine Ecology Progress Series*, 284, 185-194.

Gascoigne J. and Lipcius R.N. 2004. Allee effects driven by predation. *Journal of Applied Ecology*, 41, 801-810.

Gascoigne J. and Lipcius R.N. 2004. Allee effects in marine systems. *Marine Ecology Progress Series* 269, 49-59.

Widdows J., Pope N. D., Brinsley M. D., Gascoigne J. and Kaiser M. J. 2009. Influence of self-organised structures on near-bed hydrodynamics and sediment dynamics within a mussel (*Mytilus edulis*) bed in the Menai Straits. *Journal of Experimental Marine Biology and Ecology* 379, 92-100.

Krivtsov V., Gascoigne J. and Jones S.E. 2008. Harmonic analysis of suspended particulate matter in the Menai Strait (UK). *Ecological Modelling* 212, 53-67.

Rippeth T.P., Gascoigne J., Green J.A.M., Inall M.E., Palmer M.R., Simpson J.H. and Wiles P.J. 2007. Turbulent dissipation of coastal seas. *Science*, e-Letter 7 June 2007, see [www.sciencemag.org/cgi/eletters/313/5794/1768](http://www.sciencemag.org/cgi/eletters/313/5794/1768).

Angulo E., Roemer G.W., Berec L., Gascoigne J. and Courchamp F. 2007. Double Allee effects and extinction in the island fox. *Conservation Biology* 21, 1082-1091.

Saurel C., Gascoigne J., Palmer M.R. and Kaiser M.J. 2007. In situ mussel feeding behaviour in relation to multiple environmental factors: Regulation through food concentration and tidal conditions. *Limnology and Oceanography* 52, 1919-1929.

Simpson J.H., Berx B., Gascoigne J. and Saurel C. 2007. The interaction of tidal advection and diffusion and mussel filtration in a tidal channel. *Journal of Marine Systems* 68, 556-568.

Medio D., Shepperd C.R.C. and Gascoigne J. 2000. The Red Sea. In *Coral Reefs of the Indian Ocean*. T.R. McClanahan, C.R.C. Shepherd and D.O. Obura (eds.), OUP: 231-255

### Popular science writing

Gascoigne J. Sex and the Single Snail. *New Scientist*, 2002.

Gascoigne J. and van de Koppel J. Patterning in Attached Organisms: from Tiger Bush to Mussel Beds? *Ocean Challenge* 14, 2005.

## Thomas H. Jagielo, Team Member & P1 expert

**Employment** [2008-Present] Tom Jagielo Consulting (TJC) Seattle, WA

**Fisheries Science Consultant** *Recent Projects include:*

- Literature review and analysis of Pacific halibut migration, growth, and natural mortality, Halibut Working Group industry coalition, NPFMC.
- Design of an aerial survey to estimate menhaden abundance on the east coast of the U.S. for the Virginia Institute of Marine Science.
- Design and execution of an aerial survey to estimate Pacific sardine abundance (Washington-Oregon-California) for the Pacific Fishery Management Council.
- Review and evaluation of Annual Catch Limits and Accountability Measures proposed by the Western Pacific Fishery Management Council for the NMFS Pacific Islands Regional Office, Honolulu, Hawaii.
- Literature review and evaluation of West Coast Spatial groundfish management for the Environmental Defense Fund.

**Marine Stewardship Council:** Peer reviewer Pacific Hake, West Coast Groundfish, Blue Grenadier, BSAI Pacific Cod, BSAI Flatfish, GOA Pacific Cod, GOA Flatfish. Surveillance Audit team member for BC Sablefish (P1), BC Spiny Dogfish (P1), US Sablefish (P1/P2/P3), and US Pacific Halibut (P1/P2/P3).

[1984-2008] Washington Dept. of Fish and Wildlife Olympia, WA

**Senior Research Scientist**

☐ Developed stock assessments and rebuilding analyses used by Pacific Fishery Management Council; Designed surveys and conducted undersea manned submersible research; Investigated groundfish movement, survival, and abundance.

[1979-1984] University of Washington Fish. Res. Institute Seattle, WA

**Biologist**

☐ Projects included: Foreign Fisheries Observer; *Limnology of Lake Roosevelt*; *Toutle River salmon survival*; *Seahurst Outfall Study*.

<b>Education</b>	[1988-1992] University of Washington Seattle, WA <b>Post MS Graduate Study</b> ☐ Fishery Population Dynamics, Statistical Sampling and Estimation
	[1986-1988] University of Washington Seattle, WA <b>Master of Science</b> ☐ MS in Fisheries – Limnology of Lake Roosevelt, WA.
	[1974-1977] Pennsylvania State University University Park, PA <b>Bachelor of Science</b> ☐ BS in Biology and Marine Science
<b>Selected Scientific Committees</b>	Pacific Fishery Management Council Scientific and Statistical Committee: Chairman (2002-2003); Vice Chairman (2000-2001); Member: (1992-2008) and (2009-2011) and (2013 – present).
	US/Canada Groundfish Technical Subcommittee: Chairman (2003, 1987-1988); Member 1986-2008.
<b>Selected publications</b>	<p>PaCOOS – Pacific Coast Ocean Observation System: WDFW representative (2006-2008).</p> <p><b>Jagiello, T.H.</b> 1988. The spatial, temporal, and bathymetric distribution of coastal lingcod trawl landings and effort in 1986. State of Wa. Dept. of Fish. Prog. Rept. No. 268. June 1988. 46 pp.</p> <p><b>Jagiello, T.H.</b> 1990. Movement of tagged lingcod, (<i>Ophiodon elongatus</i>), at Neah Bay, Washington. Fish. Bull. 88:815-820.</p> <p><b>Jagiello, T.H.</b> 1991. Synthesis of mark-recapture and fishery data to estimate open population parameters. In Creel and Angler Surveys in Fisheries Management, American Fisheries Society Symposium 12:492-506.</p> <p><b>Jagiello, T.H.</b> 1994. Assessment of lingcod (<i>Ophiodon elongatus</i>) in the area north of Cape Falcon (450 46' N.) and south of 490 N. in 1994. In Pacific Fishery Management Council, 1994. Status of the Pacific Coast Groundfish Fishery Through 1994 and Recommended Acceptable Biological Catches for 1995. Appendix I. Pacific Fishery Management Council, Portland, Oregon.</p> <p><b>Jagiello, T.H.</b> 1995. Abundance and survival of lingcod (<i>Ophiodon elongatus</i>) at Cape Flattery, Washington. Trans. Amer. Fish. Soc. 124(2).</p> <p><b>Jagiello, T. H.</b>, LeClair, L.L., and B.A. Vorderstrasse. 1996. Genetic variation and population structure of lingcod. Trans Amer. Fish Soc. 125(3).</p> <p><b>Jagiello, T.H.</b>, Adams, P., Peoples, M., Rosenfield, S., Silberberg, K, and T. Laidig. 1997. Assessment of lingcod (<i>Ophiodon elongatus</i>) for the Pacific Fishery Management Council in 1997. SAFE, 1998. Pacific Fishery Management Council, Portland, Oregon.</p> <p><b>Jagiello, T.H.</b> 1999. Rebuilding analysis for lingcod. Report prepared for the Pacific Fishery Management Council, Portland, OR.</p> <p><b>Jagiello, T.H.</b> 1999. Movement, mortality, and size selectivity of sport and trawl caught lingcod (<i>Ophiodon elongatus</i>) off Washington. Trans. Amer. Fish. Soc. 128:31-48.</p> <p><b>Jagiello, T.H.</b>, Vandenberg, D.V., Sneva, J., Rosenfield, and F. Wallace. 2000. Assessment of lingcod (<i>Ophiodon elongatus</i>) for the Pacific Fishery Management Council in 2000. SAFE, 2001. Pacific Fishery Management Council, Portland, Oregon.</p> <p>Kocak, D.M., Caimi, F.M., <b>Jagiello, T.H.</b> and J. Kloske. 2002. Laser Projection Photogrammetry and Video System for Quantification and Mensuration. Oceans 2002, Marine Technology Society. Biloxi MS.</p> <p><b>Jagiello, T.H.</b>, Hoffmann, A, Tagart, J., and Zimmermann, M. 2003. Demersal groundfish densities in trawlable and untrawlable habitats off Washington: implications for the estimation of habitat bias in trawl surveys. Fish Bull. 101:545–565.</p> <p><b>Jagiello, T.H.</b> and F. R. Wallace. 2005. Assessment of Lingcod (<i>Ophiodon elongatus</i>) for the Pacific Fishery Management Council in 2005. In Stock Assessment and Fishery Evaluation.</p>

Pacific Fishery Management Council 2130 SW Fifth Ave. Suite 224, Portland, Ore. 97210.  
 Kocak, D.M., **Jagiello, T.H.**, Wallace, F., and Kloske, J. 2004. Remote Sensing using Laser Projection Photogrammetry for Underwater Surveys. IEEE International Geoscience and Remote Sensing Symposium, September 20-24, 2004.  
 Wallace, F., Tsou, T., **Jagiello, T.**, and Cheng, Y.W. 2006. Status of Yelloweye Rockfish off the U.S. West Coast in 2006. *In* Stock Assessment and Fishery Evaluation. Pacific Fishery Management Council 2130 SW Fifth Ave. Suite 224, Portland, Ore. 97210  
**Jagiello, T.H.**, Hanan, D., and R. Howe. 2009. West Coast Aerial Sardine Survey. Sampling Results in 2009. Prepared for Northwest Sardine Survey and the California Wetfish Producers Association. Submitted to the Pacific Fishery Management Council, Portland, OR, October 14, 2009. 14p.

## Ásgeir Danielsson, Team Member & P3 expert

### Education.

- 1974. Fil. Kand. degree in Mathematics and Economics from Uppsala University, Sweden.
- 1981. M. Sc. degree in Economics from the London School of Economics, England.
- 1985. Ph.D. degree in Economics from the University of Manchester, England.

### Occupation.

- 1974 - 1975. Economist at the National Economic Institute.
- 1975 - 1977. Lecturer at the Teacher Training College, Iceland.
- 1977 - 1980. Lecturer at Flensborgarskóli, Hafnarfirði.
- 1984-2000. Part time lecturer in the Department of Economics and Business Administration at the University of Iceland.
- 1987-2002. Economist at the National Economic Institute.
- 2003- Economist in the Economics Department of the Central Bank of Iceland.
- 2011- Head of research and forecasting in the Economics Department of the Central Bank of Iceland.

### Thesis, papers and articles

- *Den ekonomiska reformen i Sovjetunionen 1965.* (The economic reform in the Soviet Union in 1965). Fil. Kand. thesis, Uppsala University, Sweden, 1974, unpublished.
- *The Theory of the Wicksellian Cumulative Process and its Extension to the Case of the Open Economy.* Ph.D. thesis, Manchester University, England, 1985, unpublished.
- *Fylgni og aðfallsgreining.* (Correlation and Regression Analysis). A text used for teaching in the Economics Department at the University of Iceland. (1987-1991).
- *Sveiflur í íslensku efnahagslífi.* (Variations in the Icelandic Economy. A comparison of variations in economic growth and other variables for the OECD countries). Published in an Icelandic weekly on economic affairs: Vísindagætt no. 31 1989.
- (with others) *The experience of the ITQ-system in Iceland.* A paper presented at the IIIrd Annual Conference of the EAFE (The European Association of Fishery Economists), Dublin 1991.
- *Sveiflur í sjávarútvegi, gengisstefna og almenn hagstjórn.* (Economic cycles in the fisheries, the exchange-rate policy and the general economic policy). Published in the economic journal of the Central Bank of Iceland: Fjármálatíðindi no. 3, 1991.
- *Áhrif mismunandi skattlagningar á mælingu þjóðhagsstærða.* (The influence of the tax-mix on the measurement of economic variables). Published in the economic journal of the Central Bank of Iceland: Fjármálatíðindi no. 3, 1991.
- *Áhrif evrópska efnahagssvæðisins á íslenskan sjávarútveg.* (The influence of the European Economic Area on the Icelandic Fisheries). Published by the National Economic Institute 1991.
- (with others) *Gengisstefnan og tenging íslensku krónunnar við ECU.* (The exchange-rate policy and the pegging of the Icelandic krona to the ECU). Published by the National Economic Institute 1991.
- *The Nordic Fisheries Management Model-The model and the data for the Icelandic version.* A paper presented at the VIth Conference of the IIFET (The International Institute of Fisheries Economics and Trade), Paris 1992.

- (with others) GATT, *landbúnaðurinn og þjóðarbúið*. (GATT, the Agriculture and the National Economy). Published by the National Economic Institute 1992.
- (with others) *Hagkvæm nýting fiskistofna* (Optimal exploitation of fish stocks). A report on the work of a working group set up by the National Economic Institute and the Marine Institute. Published in May 1993 and in May 1994.
- (with others) *On the rational utilization of the Icelandic cod stock*, Paper prepared for the ICES (International Council for the Exploration of the Sea) C.M. 1993/G:56.
- (with others) *Hagkvæm nýting fiskistofna* (Optimal exploitation of fish stocks). The final report on the work of a working group set up by the National Economic Institute and the Marine Institute. Published in May 1994.
- Baldursson, F.M., Danielsson, A., Stefansson, G.: *On the Rational Utilization of the Icelandic Cod Stock*, ICES (International Council for the Exploration of the Sea) C.M. 1994/T:43.
- *Productivity growth in the Icelandic fisheries and the natural resource*. A paper presented at the VIth Annual Conference of the EAFE (The European Association of Fishery Economists), Crete 1994.
- Baldursson, F.M., Danielsson, A., Stefansson, G.: *On the Rational Utilisation of the Icelandic Cod Stock*, ICES Journal of Marine Research, 53, 1996.
- Danielsson A., Stefansson, G., Baldursson, F.M., Thorarinsson, K.: *Utilisation of the Icelandic Cod Stock in a Multispecies Context*, Marine Resource Economics, 1997, Vol. 12, pp. 329-344.
- *Fishery Management in Iceland*, Ocean and Coastal Management 1997, Vol. 35, No. 2-3, pp. 121-135.
- *Af undurfurðulegum stöðugleika gengisins*, Morgunblaðið 23. október 1997.
- Starting during the summer of 1996 I worked with the so called Nairobi group set up by UNEP and UNSD to write a manual for environmental accounting. Within the group I have been responsible for the section on marine resources. The manual has now been published as Handbook of National Accounting: Integrated Environmental and Economic Accounting – An Operational Manual was published by the United Nations Department of Economic and Social Affairs, Statistical Division, New York, 2000. (Studies in Method, Series F, No. 78).
- *Optimal Catch Quotas and Effort Quotas in the Presence of Risk*, a paper presented at the IX-th Biennial Conference of IIFET (International Institute of Fisheries Economics and Trade), Norway (1998).
- During 1997-1998 I was contracted by FAO to write parts of a manual on environmental accounting. I have finished the part of this work that I was contracted for but the work on the manual is still in progress. This handbook will be published in 2004 as "Handbook on National Accounting – Integrated Environmental and Economic Accounting for Fisheries". (Series F, No.97 (ST/ESA/STAT/SER.F/97)).
- *Þróun sjávarútvegs, kvótakerfið, auðlindagjald og almenn hagstjórn* (Development of the fisheries, the quota system, resource taxation and general economic policy). A report by the National Economic Institute to the Committee on Natural Resources set up by the Icelandic Prime Minister in 1998. The report was published by the Committee in March 1999.
- *Efficiency of Catch and Effort Quotas in the Presence of Risk*, Journal of Environmental Economics and Management, Vol. 43, No. 1, January 2002, pp. 20-33.
- *Efficiency of ITQs in the Presence of Production Externalities*, Marine Resource Economics, Vol. 15, no. 1 (Spring) : 37-43, 2000.
- *Auðlindarenta í íslenskum sjávarútvegi og dreifing hennar* (Resource rent in the Icelandic fisheries and its distribution). A report by the National Economic Institute to the Committee on Natural Resources set up by the Icelandic Prime Minister in 1999. Unpublished.
- *Kvótakerfið og byggðaröskun* (The quota system and regional imbalances), a talk given at a conference organized by the Regional Institute, University of Iceland and the University in Akureyri. Published in Morgunblaðið March 21, 1999.
- *Integrated Environmental and Economic Accounting for Commercial Exploitation of Wild Fish Stocks*, a paper presented at the X-th Biennial Conference of IIFET (International Institute of Fisheries Economics and Trade), Corvallis, Oregon, USA, July 2000.
- *Reply: Efficiency of ITQs in the Presence of Production Externalities*, Marine Resource Economics Vol. 15, no. 3 (Fall): 245-251, 2000.
- *Hlutverk sjávarútvegs í tekjumyndun á Íslandi* (The role of fisheries in wage-formation process in Iceland). Fjármálatíðindi (economic journal of the Central Bank of Iceland), No. 1, 2001.
- *Quota Prices and the Cost of Rationalisation in ITQ-fisheries*. Paper presented at the XIIIth Conference of EAFE (European Association of Fisheries Economists), Salerno, Italy, April 2001.

- *Fisheries Accounts: Icelandic Case Study*. To appear in FAO handbook on integrated environmental and economic accounting for fisheries, January 2002. Published in 2004 in "Handbook on National Accounting – Integrated Environmental and Economic Accounting for Fisheries". (Series F, No.97 (ST/ESA/STAT/SER.F/97)).
- *Quota prices when there are sunk costs and uncertainty and their role for capacity utilisation and optimal discarding*, paper to be presented at the 2nd World Congress of Environmental and Resource Economists, June 2002.
- *Biological information, profitability of fisheries and lease and asset prices for ITQs in Iceland*, a paper presented at the XI-th Biennial Conference of IIFET (International Institute of Fisheries Economics and Trade), Wellington, New Zealand, August 2002.
- (with Már Guðmundsson) *Keynes and the Modern Theory of Monetary Policy*. First presented at a conference organised by the Economics Department of the University of Iceland, "Hagfræði 20. aldarinnar: Keynes og nútíminn", (Economics of the 20th Century: Keynes and the modern times) held October 10, 2003. This paper will be published.
- *Sluggish exit and entry of labour and capital, stability and effects of taxes and subsidies in models of fisheries*, Central Bank of Iceland working paper no. 22, January 2004.
- 2001-2004 I worked for a Committee on the long-run utilisation of fish stocks. The committee was chaired by F.M. Baldursson and handed in its report in 2004. I was member of the committee and was also hired for leading the work on the report. The report *Aflaregla fyrir þorskveiðar á Íslandsmiðum – Lokaskýrsla nefndar um langtímanýtingu fiskistofna*, was presented to the Minister of fisheries in May 2004 and published on the Ministry's website (<http://www.sjavarutvegsraduneyti.is/frettir/sjreldra/nr/825>).
- *Entry and Exit of Labour and Capital in a Fishery*, Natural Resource Modeling, Vol. 18, No. 2, Summer 2005.
- *Methods for Environmental and Economic Accounting for the Exploitation of Wild Fish Stocks and Their Application to the Case of Icelandic Fisheries*, Environmental & Resource Economics, Vol. 31, pp. 405-430, 2005.
- *The great moderation Icelandic style*, Central Bank of Iceland Working Paper No. 38, May 2008. ([www.sedlabanki.is/lisalib/getfile.aspx?itemid=5977](http://www.sedlabanki.is/lisalib/getfile.aspx?itemid=5977))
- *Accuracy in forecasting macroeconomic variables in Iceland*, Central Bank of Iceland Working Paper No. 39, May 2008. ([www.sedlabanki.is/lisalib/getfile.aspx?itemid=5978](http://www.sedlabanki.is/lisalib/getfile.aspx?itemid=5978))
- (together with Magnús F. Guðmundsson, Svava J. Haraldsdóttir, Thordvardur T. Ólafsson, Ásgerður Ó. Pétursdóttir, Thórarinn G. Pétursson og Rósa Sveinsdóttir) *QMM: A quarterly macroeconomic model of the Icelandic economy*, Central Bank of Iceland Working Paper No. 41, February 2009. ([www.sedlabanki.is/lisalib/getfile.aspx?itemid=6802](http://www.sedlabanki.is/lisalib/getfile.aspx?itemid=6802))
- *QMM: A steady state version*, Central Bank of Iceland Working Paper No. 44, November 2009. ([www.sedlabanki.is/lisalib/getfile.aspx?itemid=7433](http://www.sedlabanki.is/lisalib/getfile.aspx?itemid=7433))
- *Mandatory pension savings, private savings, homeownership, and financial stability*, Central Bank of Iceland Working Paper No. 58, May 2012. ([www.cb.is/library/Skr%C3%A1arsafn---EN/Working-Papers/WP%2058%20net.pdf](http://www.cb.is/library/Skr%C3%A1arsafn---EN/Working-Papers/WP%2058%20net.pdf))

## Louise le Roux, Team Member & RBF and traceability expert

### Education

<i><b>Institution</b></i>	<i><b>Qualification</b></i>	<i><b>Year</b></i>
Iceland University of Education	Teaching Qualification	2004
Computer programming & system's analysis, NTV, Hafnarfjörður		2001
<b>University of Iceland</b>	<b>M.Sc.</b>	
<b>1997</b>		
University of Stellenbosch, South Africa	Hons. B.Sc.	1992
University of Stellenbosch, South Africa	B.Sc.	1991

### Professional Experience

<i><b>Part- time Position</b></i>	<i><b>Company</b></i>	<i><b>Period</b></i>
<b>Project Manager/Committee member</b>	Vottunastofa Tún ehf.	Dec. 2010 to present

- Served on Tún's fisheries Certification Committee since Dec. 2010. During this time, I also served as the committee's secretary. Currently deputy on the committee.
- In Sept 2011 appointed Project Manager for Tún's Sustainable Fisheries Scheme, which certifies fisheries against MSC (Marine Stewardship Council) principles ([www.msc.org](http://www.msc.org)). The project manager is responsible for annual- and client assessment schedules and management tasks associated with assessments, peer reviews, and certification decisions.
- **MSC Reports and projects for Tún:**
  - ISF Iceland Cod & Haddock: 1st Annual Public Surveillance Report; Certification Report on Extension of Scope
  - Faroese Scallop: Certification; 1st Annual Surveillance
  - ISF Iceland Golden Redfish: Initial assessment and successive surveillance
  - ISF Iceland Saithe: Initial assessment, extension of scope and successive surveillance
  - Icelandic gillnet lumpfish: Initial assessment and successive surveillance
  - Three MSC pre-assessments

<i><b>Position</b></i>	<i><b>Company</b></i>	<i><b>Period</b></i>
<b>R&amp;D Manager</b>	deCODE Genetics, Inc.	Oct. 2006 to present

#### *Biological Materials Facility*

- Research and Development in Biological Materials Facility (BMF = deCODE's bio-banking facility)
- Member of BMF management team.
- Responsible for all aspects of research and development, related to DNA/RNA collection, extraction and storage, dilution, pooling, whole genome amplification, assay testing, documentation, etc.
- Quality Assurance issues – writing/reviewing standard operating procedures, work procedures and training
- Facilitates and implements workflow procedures suitable for LIMS (Laboratory Information Management System).

<i><b>Position</b></i>	<i><b>Company</b></i>	<i><b>Period</b></i>
<b>Head of Technology Development</b>	deCODE Genetics, Inc.	Oct. 2003 to Sep. 2006

#### *GMT Division & Biological Material Facility (from Nov.2004)*

- Implementing new and improving current technologies, e.g. in DNA/RNA isolation, individual and pooled megabase DNA plugs for Southern Blots, MLPA, paraffin tissue, etc.
- Facilitation of various other projects (e.g. bisulphite sequencing, northern blots).
- Daily running of Genomic Technologies lab.

<i><b>Position:</b></i>	<i><b>Company</b></i>	<i><b>Period:</b></i>
<b>Research Associate</b>	deCODE Genetics, Inc.	Jan. 2001 to Oct. 2003
<i>New Technologies Division</i>		



- Responsible for independent research projects (e.g. BAC sequencing, design and construction of cloning vectors for varied applications).
- Assisting in laboratory work for other research projects.

<b>Position:</b>	<b>Company</b>	<b>Period:</b>
<b>Contractor</b>	United Nations University	Aug.-Oct. 2000
<ul style="list-style-type: none"> <li>▪ Teaching general course in Population Dynamics to all participants of the programme.</li> <li>▪ Practical training sessions of students specialising in population dynamics.</li> </ul>		

<b>Position:</b>	<b>Company</b>	<b>Period:</b>
<b>Lecturer</b>	University of Namibia	Feb. 1998- May 2000
<ul style="list-style-type: none"> <li>▪ Teaching and development of various courses in B.Sc. Fisheries program related to Conservation Biology, Fish Biology, Fisheries Management, and Population Dynamics.</li> <li>▪ Various other duties, e.g. curriculum review, student placements in industry, various faculty committees and community services.</li> </ul>		

<b>Position:</b>	<b>Company</b>	<b>Period:</b>
<b>Fisheries Biologist</b>	Ministry of Fisheries and Marine Resources <i>NatMIRC, Swakopmund, Namibia</i>	Jan. 1993-Feb. 1998
<ul style="list-style-type: none"> <li>▪ Head of Crab Section. Research on deep-sea red crab off the Namibian coast.</li> <li>▪ Management advice on crab fishery to Sea Fishery Advisory Council and Minister of Fisheries. Administrative duties of the section.</li> <li>▪ Member of various committees/working groups e.g. cruise planning, TAC committee, and reviewing and advising on stock assessment methods for all sections.</li> </ul>		

## Professional Training/Courses

<b>Year:</b>	<b>Course title</b>	<b>Institution:</b>
2015	MSC Fishery Assessment Online Training	Marine Stewardship Council, London
2014	Workshop for Auditing Personnel	Vottunastofa Tún / Nor Con ehf., Iceland
2014	MSC Fishery Assessment Online Training (incl. RBF)	Marine Stewardship Council, London
2014:	MSC Fishery Assessment Training	Marine Stewardship Council, London
2013:	MSC Fishery Assessment Training (incl. RBF)	Marine Stewardship Council, London
2012:	Workshop on traceability	Vottunastofa Tún / Nor Con ehf., Iceland
2012:	Innovation: from opportunity to execution	Innovation Centre Iceland
2011:	MSC Fishery Assessment Training (incl. RBF)	Marine Stewardship Council, London
2007:	GLP Essentials for Technical Staff	West Coast Training Institute
2007:	Nordic research seminar: health surveys & biobanking.	deCODE Genetics
2006:	Project Management	Capacent, Iceland
2006:	Personal Efficiency Programme	IBT, Iceland
2006-2007:	Leadership training ("Stjórnendur Framtíðarinnar")	Capacent & Continuing Education (University of Iceland)
2006:	Molecular Cytogenetics Workshop	ACC/CMGS, UK
2005:	First Aid course	deCODE Genetics
2000:	Probability and Statistics	University of Namibia
1998:	Advanced Fish Stock Assessment	FAO/DANIDA
1997:	General Statistics	Ministry of Fisheries, Namibia
1995:	Fisheries Sampling Course	FAO/DANIDA
1995:	Fish Stock Assessment Course	FAO/DANIDA
1993:	Fish Stock Assessment Course	FAO/DANIDA

## Publications

- **Le Roux, L.** 1998. Deep-sea red crab research after more than 20 years of exploitation. *Namibia Brief: Focus on Fisheries and Research*. Vol. **20**: 124-125.
- **Le Roux, L.** 2001. The impact of emigration on population estimates of deep-sea red crab *Chaceon maritae* off Namibia. *S. Afr. J. Mar. Sci.* **23**: 61-66.

- Amundadottir LT, Sulem P, Gudmundsson J, Helgason A, Baker A, Agnarsson BA, Sigurdsson A, Benediktsdottir KR, Cazier JB, Sainz J, Jakobsdottir M, Kostic J, Magnusdottir DN, Ghosh S, Agnarsson K, Birgisdottir B, **le Roux L**, Olafsdottir A, et al. 2006. A common variant associated with prostate cancer in European and African populations. *Nat. Genet.* **38**(6): 652-658.
- Ingason A, Kirov G, Giegling I, Hansen T, Isles AR, Jakobsen KD, Kristinsson KT, **le Roux L**, Gustafsson O, et al. 2011. Maternally derived microduplications at 15q11-q13: implication of imprinted genes in psychotic illness. *Am J Psychiatry.* Apr;168(4):408-17. Epub 2011 Feb 15.
- Rafnar T, Gudbjartsson DF, Sulem P, Jonasdottir A, Sigurdsson A, Jonasdottir A, Besenbacher S, Lundin P, Stacey SN, Gudmundsson J, Magnusson OT, **le Roux L**, Orlygsdottir G, et al. 2011. Mutations in BRIP1 confer high risk of ovarian cancer. *Nat Genet.* Oct 2;43(11):1104-7. doi: 10.1038/ng.955

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