

Jurisdiction	Project No	Title	Status	Summary of Objectives	Research Dates	Topic Area	Objective/Issue	Area of Research	Collaborating Countries	Coordinating Scientist	Annual Expenditure
Canada	C1	Marine migration and survival of post-smolt Atlantic salmon from Bay of Fundy rivers	Completed	Provide knowledge about marine habitat (migration routes and feeding grounds) used by salmon post-smolts from Bay of Fundy rivers. Determine the location, timing and extent of salmon post-smolt mortality at sea. Investigate the causes and mechanisms of marine mortality of salmon post-smolts. Provide information to fuel the recovery programme for inner Bay of Fundy salmon stocks.	2001 - 2003	Distribution/migration in the sea	Migratory behaviour of individual fish	Bay of Fundy and Gulf of Maine	USA	Gilles L Lacroix	
Canada	C2	Distribution, health and condition of Atlantic salmon from Bay of Fundy rivers while at sea	Completed	Provide knowledge about marine habitat and health of salmon post-smolts from Bay of Fundy rivers. Investigate the causes and mechanisms of marine mortality of salmon post-smolts. Provide information to fuel the recovery programme for inner Bay of Fundy salmon stocks.	2002 - 2004	Distribution/migration in the sea	Distribution of salmon in the sea	Bay of Fundy and Gulf of Maine	USA and Norway	Gilles L Lacroix	
Canada	C3	Marine migration and survival of post-smolt Atlantic salmon from the Saint-Jean River (Gaspé)	Completed	Provide knowledge of the marine habitat (migration routes and feeding grounds) used by salmon post-smolts from Bay of Gaspé rivers. Determine the location, timing and extent of salmon post-smolt mortality at sea. Investigate the causes and mechanisms of marine mortality of salmon post-smolts.	2005 - 2006	Distribution/migration in the sea	Migratory behaviour of individual fish	Saint-Jean River, Gaspé Peninsula, Quebec		Julian Dodson, Francois Caron	
Canada	C4	Marine migration and survival of kelt Atlantic salmon from the Saint-Jean River (Gaspé)	Completed	Provide knowledge of the marine habitat (migration routes and feeding grounds) used by salmon kelts from Bay of Gaspé rivers. Determine the location, timing and extent of kelt mortality at sea. Investigate the causes and mechanisms of marine mortality of salmon kelts.	2006	Distribution/migration in the sea	Migratory behaviour of individual fish	Saint-Jean River, Gaspé Peninsula, Quebec		Francois Caron	
Canada	C5	Tracking experimentally 'escaped' farmed salmon	Completed	Determine the course tracks and fates of sonically tagged farmed salmon released in winter and spring.	2005	Distribution/migration in the sea	Migratory behaviour of individual fish	Cobscook Bay, Maine, USA; Quoddy region, NB, Canada		Fred Whoriskey	
Canada	C6	Atlantic salmon distribution and abundance at sea	Completed	Determine salmon distribution and abundance at sea, particularly post-smolts in the Labrador Sea and Northern Grand Banks; collect biological and other data; investigate the relationship between salmon and their prey; investigate the relationship between oceanographic parameters and salmon abundance; tag and release salmon.	2001 - 2005	Distribution/migration in the sea	Distribution of salmon in the sea	Labrador Sea and Northern Grand Banks		David Reddin	
Canada	C7	Integrated field and laboratory assessment of the effects of endocrine – disrupting substances on Atlantic salmon smolts.	Completed	Laboratory tests of the effects of endocrine-active substances in municipal, and industrial effluents; field tests of the effects of endocrine-active substances in municipal and industrial effluents; field tests on caged smolts near sites with potential for significant agriculture run-off; ocean field tests of link between exposure of smolts to endocrine - disrupting substances and subsequent lower adult returns.	2003 - 2007	Specific natural and anthropogenic factors	Pollutants	Atlantic Canada and Co. Mayo, Ireland	Ireland	Wayne Fairchild	
Canada	C8	Use of stable isotopes to assess long-term changes in marine trophic ecology of Atlantic salmon (<i>Salmo salar</i>)	Completed	Assess trophic and dietary information through analysis of stable isotope signatures of carbon and nitrogen from previously compiled scale samples from various salmon stocks; compare isotopic signatures within and among stocks to infer differences in feeding ecology in time and space; examine evidence of environmental influences on trends in isotopic signatures; examine linkages of stable isotope signatures with trends in abundance.	2006 – 2007	Life history/ biological processes	Post-fishery recruitment marine factors	Desk study examining archived material and samples from Newfoundland, the Maritime Provinces, the Quebec North Shore, and the Barents Sea (Tana River, Finland)	Finland	J Brian Dempson	

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Canada	C9	Effective population size, gene flow and population structure of Atlantic salmon in Newfoundland and Labrador	Completed	Document population structure and connectivity (gene flow) among Newfoundland and Southern Labrador rivers. Test for temporal stability of the structure over the past 50 years.	2003 - 2008	Distribution/migration in the sea	Origin of catches in directed fisheries	Newfoundland and Labrador		Daniel Ruzzante Friso Palstra	
Canada	C10	River and extended estuary acoustic tracking of Atlantic salmon (<i>Salmo salar</i>) kelts and bright salmon	Completed	Track and document migratory behaviour of Atlantic salmon kelts as they leave the river for the open ocean and bright salmon at they return to rivers; identify possible critical habitat sites utilized by kelts and bright salmon during their migration; examine the mortality rates of kelts and bright salmon during migration.	2006 - 2008	Distribution/migration in the sea	Migratory behaviour of individual fish	LaHave River and estuary, Nova Scotia		Peter G. Amiro, A Jamie F. Gibson	
Canada	C11	Integrated modelling of juvenile Atlantic salmon movement and physical habitat in fluvial and estuarine environments	Completed	Develop an innovative geomatic approach capable of relating the behaviour of smolts during their migration to the characteristics of the physical habitat in rivers and estuaries; apply this approach to the analysis of the migration of smolts through the estuaries of the St. Jean, Dartmouth and York rivers and down the Baie de Gaspé.	2005 - 2008	Distribution/migration in the sea	Migratory behaviour of individual fish	York River and Baie de Gaspé, Quebec	UK	Julian Dodson	
Canada	C12	Estuary acoustic tracking of Atlantic salmon (<i>Salmo salar</i>) smolts and kelts – Conne River, Little River, and Bay d'Espoir, Newfoundland	Completed	Tag and track migratory behaviour of Atlantic salmon smolts and kelts as they leave the Conne River, Newfoundland; determine the movements and migration patterns throughout the Bay d'Espoir fjord; provide insight into the initial survival and residency of smolts and kelts migrating through the fjord.	2006 - 2008	Distribution/migration in the sea	Migratory behaviour of individual fish	Conne River, Little River and Bay d'Espoir fjord, Newfoundland		J. Brian Dempson, Keith Clarke	
Canada	C13	Spatio-temporal distribution of Atlantic salmon stocks and the impact of the West Greenland fishery.	Completed	Provide knowledge about the river origin of the salmon catch in the commercial fishery at West Greenland.	2006 - 2008	Distribution/migration in the sea	Origin of catches in directed fisheries	Samples from West Greenland		Louis Bernatchez, Tim King	
Canada	C14	Genetic population structure of Atlantic salmon in Eastern Canada and its implication for conservation.	Completed	This project aims at elucidating the genetic population structure of Atlantic salmon from a small (river) to a large (Eastern Atlantic coast) spatial scale and at helping in proposing conservation units for the Canadian distribution range.	2004 - 2008	Distribution/migration in the sea	Origin of catches in directed fisheries	Rivers in Quebec, Gulf of St Lawrence and Labrador		Louis Bernatchez, Mélanie Dionne	
Canada	C15	Pelagic ecosystem survey of the Northwest Atlantic	Ongoing	Sample the upper pelagic ecosystem during the period corresponding to the early post-smolt phase. Determine distribution and relative abundance of post-smolts at selected locations and times along hypothesised ocean migration route. Obtain data on relative abundance of other species including macroplankton aggregations to provide information on the role of salmon in the pelagic ecosystem. Obtain oceanographic information.	2008 - 2011	Distribution/migration in the sea	Distribution of salmon in the sea	North West Atlantic (stations 49-58°N)	USA	Gerald Chaput, Dave Reddin, Tim Sheehan	-
Canada	C16	Miramichi River kelt movements and survival	Ongoing	Document the spring movements and survival of kelts from the Miramichi River as they return to the sea. Use pressure sensitive tags to record the depths used by kelts.	2009 - 2011	Distribution/migration in the sea	Migratory behaviour of individual fish	Miramichi River estuary and Gulf of St Lawrence		Fred Whoriskey	£12,500 (costs for tags and student salary)
Canada	C17	Marine survival of Canadian Atlantic salmon stocks: long-term monitoring	Ongoing	Long-term assessments of smolt production and adult return estimates from a number of rivers in Newfoundland region, Maritimes region, Gulf region and Quebec.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	Canadian rivers in Newfoundland region, Maritimes region, Gulf region and Quebec		Gerald Chaput	£639,500
Canada	C18	Atlantic salmon smolt migration and survival within Canadian rivers, estuaries and during the marine life stage	Ongoing	Provide a time-series of stage specific estimates of mortality rates for smolts and post-smolts at various points of their at-sea migration, including for their transitions through freshwater, the estuary and to various points in the ocean; examine the relation between biological characteristics of the fish and survival rates to attempt to isolate mortality causes; document the	2003 - 2011	Distribution/migration in the sea	Migratory behaviour of individual fish	Miramichi River and estuary; Restigouche River and Baie des Chaleurs; Cascapedia River and estuary; St-Jean (Côte-Nord) River and estuary; Western Arm Brook; Strait of Belle Isle, Cabot Strait, Labrador,	USA	Fred Whoriskey Jon Carr	£300,000

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				migration pathways and speeds of smolts from different rivers.				West River, Sheet Harbour.			
Canada	C19	Stable isotope ratios to infer trophic structure and condition of Atlantic salmon during their life at sea.	Ongoing	Improve understanding of marine ecology of salmon through studies of trophic state and condition. Questions to be addressed include: are trophic states of 1SW non-maturing fish similar between NAC and NEAC origin salmon?; Are trophic states of 1SW non-maturing fish different from those of maturing 1SW fish of the same cohort? Can this tell us anything about when these different maturity groups separate in the North Atlantic?; Has there been a trophic state change between West Greenland and return to home rivers as 2SW salmon?	2008 - 2012	Life history/ biological processes	Post-fishery recruitment marine factors	West Greenland and from salmon returning to the index rivers of Eastern Canada.	Greenland	J. Brian Dempson, Mike Power, Gerald Chaput, Tim Sheehan	£9,000 (excludes cost of purchase of samples)
Canada	C20	Identification of essential habitat for repeat spawning Atlantic salmon of Inner Bay of Fundy origin	Ongoing	Identify the freshwater and marine habitats used by post-spawning Atlantic salmon of inner Bay of Fundy (iBoF) origin for reconditioning until their return as repeat spawners, and identify the sites and times of mortality for those that fail to return.	2008 - 2011	Distribution/ migration in the sea	Migratory behaviour of individual fish	Primarily the Big Salmon River but possibly other inner Bay of Fundy rivers (i.e. Stewiacke) as well as the Saint John River and Bay of Fundy		Gilles L Lacroix, Ross Jones	£20,000. In-kind contributions from Fort Folly First Nation.
Canada	C21	Genomic basis of adaptive divergence and marine survival among Atlantic salmon populations	Ongoing	Elucidate the genetic basis of adaptive divergence and marine survival in Atlantic salmon populations from eastern Canada. Contribute to the identification of management units.	2010 - 2013	Distribution/ migration in the sea	Origin of catches in directed fisheries	Eastern Canada: Québec, Maritimes, Newfoundland and Labrador	Norway, USA	Louis Bernatchez, Mélanie Dionne, Patrick O'Reilly, Vincent Bourret	£64,500
Denmark - Greenland	D1	West Greenland Salmon Fishery Sampling Programme	Ongoing	Continue time series of data on the continent of origin and biological characteristics of salmon in the fishery. Provide data on mean weight and length and continent of origin for input to models. Collect information on the recovery of internal and external tags. Collect other additional biological samples as required.	Annual	Distribution/ migration in the sea	Origin of catches in directed fisheries	West Greenland	USA, UK, Ireland, Canada	Helle Siegstad	£88,200
European Union	E1	SALMODEL Concerted Action – A co-ordinated approach towards the development of a scientific basis for management of wild Atlantic salmon in the North-East Atlantic	Completed	Improve ability to set conservation limits and examine methods of estimating pre-fishery abundance (PFA) and determine how these PFA estimates can be used to provide catch advice.	2000 - 2002	Long-term monitoring	Time series of marine survival in relation to environmental parameters	Desk study	France, Ireland, Finland, Norway, Iceland, Canada, UK	Walter Crozier	
European Union	E2	SALSEA-Merge: Advancing understanding of Atlantic salmon at sea: Merging genetics and ecology to resolve stock – specific migration and distribution patterns.	Ongoing	Merge genetic and ecological investigations to advance understanding of stock specific migration and distribution patterns and overall ecology of the marine life of Atlantic salmon and gain an insight into the factors resulting in recent significant increases in marine mortality.	2008 - 2011	Distribution/ migration in the sea	Distribution of salmon in the sea	North-East Atlantic with marine surveys off coast of Ireland and UK, around the Faroes and in the Northern Norwegian Sea and Barents Sea	Denmark, Finland, France, Faroes, Iceland, Ireland, Norway, Spain, UK	Jens Christian Holst	£1.8 million
European Union - Denmark	De1	Estuarine migration of smolts in the Rivers Skjern Å (North Sea) and River Guden Å	Completed	To assess the effect of restoration of habitat in the River Skjern Å on the smolt runs of salmon and sea trout, in particular with regard to predation by piscivorous birds. To investigate the migration of salmon smolts in the River Guden Å.	2002 - 2003	Distribution/ migration in the sea	Migratory behaviour of individual fish			Gorm Rasmussen	
European Union - Denmark	De2	Mortality of Atlantic salmon smolts during estuary migration	Completed	Estimate mortality of salmon smolts during migration through estuaries and compare the return ratio of wild, stocked ½- and one-yearlings.	2000 - 2008	Distribution/ migration in the sea	Migratory behaviour of individual fish	River Skjern Å and River Stor Å (North Sea) and River Guden Å (Kattegat) and their estuaries		Anders Koed, Kim Aarestrup	

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European Union - Denmark	De3	Salmon Rehabilitation Plan: monitoring numbers of spawners, spawning and nursery areas in four Atlantic Salmon rivers	Ongoing	The Danish national salmon rehabilitation plan describes four rivers with natural wild salmon populations. This project monitors the effect of the rehabilitation plan and the development of the populations (the goal is at least 1,000 spawners in each river to fulfil the plan). This study will allow estimates of marine mortality of salmon to be made.	2008 -	Long-term monitoring	Time series of marine survival /growth estimates	River Skjern Å, River Ribe Å, River Storå and Varde Å. The rivers flowing into the North Sea		Anders Koed, Einar Eg Nielsen	£14,000
European Union - Denmark	De4	Marine behaviour of Atlantic salmon	Ongoing – New Entry	Obtain more knowledge about the salmon's distribution and migration at sea using DSTs and PSAT tags and isotopes.	2010 - 2016	Distribution/migration in the sea	Migratory behaviour of individual fish	River Skjern Å and River Storå		Kim Aarestrup	£35,000
European Union - Finland	Fi1	Long-term variation in population dynamics, life history characteristics, sea growth and origin (wild/reared) of salmon in the rivers Teno (Tana) and Nääämöjoki (Neidenelva)	Ongoing	Collect long-term data on variation in the stock components, life histories, sea growth and abundance of escaped farmed salmon in the salmon stocks of the rivers Teno and Nääämöjoki. Relate the population dynamics of the juvenile salmon and returning adult salmon in preceding and subsequent generations	Annual	Long-term monitoring	Time series of marine survival/growth estimates	Northern Finland and Norway	Norway	Jaakko Erkinaro	£275,000
European Union - Finland	Fi2	Joint use of high-throughput SNP assay infrastructure in Atlantic salmon	Completed	The key aims of the project include: I) A concerted effort to identify genomic regions that affect ecologically and economically important phenotypic traits in domesticated and wild Atlantic salmon; II) efficient joint utilization of a state-of-the-art Nordic genomics infrastructure to generate large-scale salmon SNP datasets;	2009 - 2010	Distribution/migration in the sea	Origin of catches in directed fisheries	Norway and Finland	Norway	Craig Primmer	
European Union - France	Fr1	Evolution of biological characteristics in Atlantic salmon from all the Armorican massif rivers (Brittany and Low-Normandy, France)	Completed	Examine relationships between the cumulative effects of climate warming and other anthropogenic stresses and changes in biological features in populations in the Southern part of the European distribution range of the species.	1972 - 2005	Life history/biological processes	Freshwater factors	Armorican massif rivers, France		Jean-Luc Baglinière	
European Union - France	Fr2	The sea survival of Atlantic salmon from the River Scorff, Brittany	Ongoing	Estimation and long-term monitoring of survival at sea in the southern part of the European distribution range of the species.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	River Scorff (Southern Brittany)		Etienne Prévost	£144,000
European Union - France	Fr3	Atlantic salmon metapopulation investigation in Normandy rivers	Completed	Estimate exchanges between rivers flowing into the Mont Saint-Michel Bay and the impact on management of salmon populations.	2007-2010	Distribution/migration in the sea	Origin of catches in directed fisheries	Rivers flowing into Mont Saint-Michel Bay, Normandy		Jean-Luc Bagliniere	
European Union - Ireland	Ir1	Assessment of the levels of the parasite <i>Lepeophtheirus salmonis</i> on Atlantic salmon post-smolts in salmon aquaculture bays along Ireland's western seaboard	Completed	Determine whether sea lice from marine salmon farms are a contributory factor in increased marine mortality of salmon post-smolts migrating from bays with salmon aquaculture. Gather information on salmon post-smolt migration patterns.	2002	Specific natural and anthropogenic factors	Fish farms	South-West Coast (Kenmare Bay), West Coast (Killary Harbour, Bertraghboy Bay, Clew Bay), North-West Coast (Inver Bay).		Paddy Gargan	
European Union - Ireland	Ir2	Oceanic factors influencing marine survival of Irish salmon stocks	Completed	Provide information on marine survival at various stages of ocean migration.	2001 - 2005	Long-term monitoring	Time series of marine survival in relation to environmental parameters	Desk study utilising oceanic data from around North Atlantic	USA	Niall O'Maoileidigh, Kevin Friedland	
European Union - Ireland	Ir3	Sustainable management of interactions between aquaculture and wild salmonid fish	Completed	Assess efficacy of prophylactic treatments for salmon smolts migrating through aquaculture bays.	2003 – 2006	Specific natural and anthropogenic factors	Fish farms	Kilkerrin Bay, Bertraghboy Bay, Connemara	UK, Norway	Paddy Gargan, Niall O'Maoileidigh	
European Union - Ireland	Ir4	Early distribution and migration of Atlantic salmon smolts off the West of Ireland	Completed	Test new pelagic trawl in open waters off Irish coast; train and familiarise staff on the operation and development of the trawl for further surveys in 2008 and 2009; obtain samples of post-smolts for background and genetic analyses; relate run-timing, timing of migration, swimming speed, growth, etc to oceanographic parameters.	2007	Development of methods	Post-smolt survey methods	North-west coast of Ireland		Niall O'Maoileidigh	

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European Union - Ireland	Ir5	Migration of salmon in estuarine and coastal waters	Completed	Investigate the timing, route of migration and aspects of the biology of migrating ranched salmon smolts in comparison to the native wild smolt migration.	2005 - 2008	Distribution/ migration in the sea	Migratory behaviour of individual fish	Burrishoole catchment, Newport and Clew Bay, Co. Mayo	UK	Russell Poole, Deirdre Cotter Niall O'Maoileidigh	
European Union - Ireland	Ir6	National Development Plan - National Genetic Stock Identification Project	Completed	Identify and map discrete spawning areas within tributaries of Irish salmon rivers and collect juveniles for establishment of genetic baseline for mixed sample analysis. Undertake molecular genetic analysis of juvenile salmon tissue and adult scales to determine relative contributions of different baseline river populations within mixed samples.	2006 - 2008	Distribution/ migration in the sea	Origin of catches in directed fisheries	All Irish rivers	UK, Spain	Tom Cross, Paddy Gargan, Philip McGinnity	
European Union - Ireland	Ir7	Interactions between aquaculture and wild salmonid fish	Completed	Assess efficacy of prophylactic treatments for salmon smolts migrating through aquaculture bays.	2003 - 2009	Specific natural and anthropogenic factors	Fish farms	Burrishoole, Shannon, Lee and Screebe, and drift net fishery around Irish coast		D Jackson	
European Union - Ireland	Ir8	Marine survival of wild and hatchery reared salmon: National coded wire tagging and tag recovery programme and Burrishoole wild salmon census	Ongoing	Provide information on marine survival and exploitation rates by commercial fisheries; estimate the contribution of individual river stocks to catches; examine the performance of selected experimental groups; and evaluate potential for salmon ranching.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	Tag recovery from around North Atlantic. Salmon census facility, Newport, Co Mayo	Norway, UK, Faroes, France, Spain, Germany, Denmark	Niall O'Maoileidigh, Russell Poole	£372,000
European Union - Ireland	Ir9	Satellite tracking of salmon kelts in the Atlantic released from Irish rivers	Ongoing - New Entry	Tag salmon kelts from four rivers in southern Ireland and monitor marine migration, depth and temperature preferences.	2010 and 2011	Distribution/ migration in the sea	Migratory behaviour of individual fish	Southern Ireland		Audun H. Rikardsen	£23,000
European Union - Sweden	Sw1	Long-term variation in population dynamics, life-history and exploitation of salmon stocks in monitored rivers	Ongoing	Estimate long-term variation of survival in different life-stages, life-history characteristics and growth of wild salmon in the River Åtran and its major tributary. Estimate sea survival, growth and exploitation for wild fish in the River Åtran and wild and reared fish in the rivers Lagan and Nissan.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	Rivers Åtran, Lagan and Nissan		Erik Degerman	£30,000
European Union - UK (England and Wales)	Ew1	Salmonid migration and climate change	Completed	Describe the nature and model the environmental factors affecting the migration of salmonids and predict the effects of climate change on salmonid migration and survival in the sea.	1999 - 2004	Distribution/ migration in the sea	Migratory behaviour of individual fish	Coastal waters around the UK and extending to salmon feeding grounds in Faroes and Greenland Seas		Andrew Moore	
European Union - UK (England and Wales)	Ew2	Impacts of agricultural contaminants on wild salmonids	Completed	Describe the nature and extent of the impacts of aquatic contaminants on migration and marine survival of salmonid smolts and post-smolts.	1999 - 2004	Specific natural and anthropogenic factors	Pollutants	England and Wales	Sweden and Canada	Andrew Moore	
European Union - UK (England and Wales)	Ew3	Impact of intensive in-river aquaculture on wild salmonids	Completed	Describe the nature and extent of the impact of aquatic contaminants derived from intensive freshwater aquaculture (effluents, pesticides, antibiotics and hormones) on reproduction and migration of wild salmonids.	2001 - 2005	Specific natural and anthropogenic factors	Fish farms	England and Wales		Andrew Moore	
European Union - UK (England and Wales)	Ew4	Modelling the bioenergetics of Atlantic salmon migration	Completed	Model the energetic requirements of salmon during their marine migrations and predict the effects of environmental and oceanographic changes on smolt growth and survival.	2002 - 2005	Distribution/ migration in the sea	Migration and bioenergetic models	England and Wales		Andrew Moore	
European Union - UK (England and Wales)	Ew5	Cardiff Bay Fisheries Monitoring Programme	Completed	Assess the impact of Cardiff Bay barrage on salmon stocks of the rivers Taff and Ely.	1990 - 2006	Specific natural and anthropogenic factors	Obstructions to fish movements	Cardiff Bay at mouth of rivers Taff, Ely, South Wales, UK		Peter Gough	
European Union - UK (England and Wales)	Ew6	Atlantic Salmon Arc Project, ASAP	Completed	Define exploitation at sea on a regional basis using genetic tools. Create a long-term database for these studies and create an international management tool to inform decision-making.	2004 - 2008	Distribution/ migration in the sea	Origin of catches in directed fisheries	Europe, North Atlantic	Spain, France, Ireland, Scotland, USA, Iceland	Dylan Bright	

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European Union - UK (England and Wales)	Ew7	Diffuse pollution and freshwater fish populations	Completed	Investigate the role of diffuse aquatic contaminants in regulating populations of freshwater fish with particular reference to salmonid stocks and fisheries.	2005 - 2010	Specific natural and anthropogenic factors	Pollutants	England and Wales		Andrew Moore	
European Union - UK (England and Wales)	Ew8	The influence of the freshwater environment on salmonid populations	Completed	Examine the impact of environment change on juvenile salmon production and ecology. One aspect of the research directly related to marine survival is the potential role of assessment techniques (trapping, anaesthetisation tagging) in influencing marine survival.	2005 - 2010	Life history/ biological processes	Freshwater factors	England and Wales		Andrew Moore	
European Union - UK (England and Wales)	Ew9	Factors affecting the distribution and behaviour of salmonid populations	Completed	Investigate the habitat requirements of adult salmonids within the estuarine and freshwater environments. One key element of the research is to investigate how changes in prey availability within the marine environment may influence recruitment of stocks between years.	2005 - 2010	Life history/ biological processes	Freshwater factors	England and Wales		Andrew Moore	
European Union - UK (England and Wales)	Ew10	Genetic sampling to type British salmon stocks	Ongoing	Coordinate and support the establishment of baseline information on the genetic character of breeding populations within and among rivers in Britain.	2008 – 2010 Data analysis ongoing	Distribution/ migration in the sea	Origin of catches in directed fisheries	England, Wales, Northern Ireland and Scotland	Scotland, Northern Ireland	Miran Aprahamian	£40,000
European Union - UK (England and Wales)	Ew11	Deriving estimates of marine survival and exploitation for monitored river stocks in England and Wales	Ongoing	Establish 'monitored' rivers where estimates of marine survival can be derived and compared with other North Atlantic stocks.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	River Dee (North Wales), River Tamar (SW England)		Ian Davidson, Rob Hillman, Ian Russell	£120,000
European Union - UK (England and Wales)	Ew12	The marine life of Atlantic salmon : evidence from the microchemistry of scales	Completed	Measure the stable isotope and trace element compositions from salmon scales in relation to variations in the marine environment and develop a model to predict impacts of changes in the marine environment on return rates of salmon.	2007 – 2010	Life history/ biological processes	Post-fishery recruitment marine factors	England and Wales		Clive Trueman	
European Union - UK (England and Wales)	Ew13	Development and application of salmonid life cycle models	Ongoing	Review available models to assess suitability and to build on existing models or develop new models to <i>inter alia</i> compare marine and freshwater factors affecting stocks.	2009 – 2013	Life history/ biological processes	Freshwater factors	England and Wales		Ted Potter	£52,500
European Union - UK (England and Wales)	Ew14	The impacts of contaminants and temperature on freshwater fish populations	Ongoing	Further study the impacts of contaminants derived from intensive agriculture and aquaculture facilities on wild salmonids and investigate the implications of predicted climate change scenarios on the impacts of different sources of diffuse and point source pollution on wild fish populations.	2009 – 2014	Specific natural and anthropogenic factors	Pollutants	England and Wales		Andy Moore	£159,000
European Union - UK (England and Wales)	Ew15	Impacts on juvenile salmonid populations from a changing freshwater environment.	Ongoing	Investigate how predicted changes in the freshwater environment might impact on juvenile salmonid populations and how changing conditions during the early life history stages may influence their behaviour and subsequent survival within the marine environment.	2009 – 2014	Specific natural and anthropogenic factors	Freshwater factors	England and Wales		Bill Riley	£180,600
European Union – UK (Northern Ireland)	Ni1	Development of conservation limits, pre-fishery abundance and management of the Foyle salmon fishery	Completed	To build upon the existing Foyle salmon management system, to develop it into a precautionary catch advice framework that fully takes account of biological data on stock abundance and which fulfils all the main requirements of the Precautionary Approach.	2005 - 2008	Long-term monitoring	Time series of marine survival in relation to environmental parameters	Foyle area, Ireland	Ireland, France, Scotland	Patrick Boylan	
European Union – UK (Northern Ireland)	Ni2	The marine survival of Atlantic salmon from the River Bush, Northern Ireland	Ongoing	Investigate factors influencing the survival at sea of salmon smolts migrating from the River Bush until their return as adults.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	River Bush, N. Irish/Irish coastal waters and distant-water fisheries	Ireland (tag recovery programme)	Richard Kennedy	£60,000
European Union – UK (Scotland)	Sc1	Testing and development of Institute of Marine Research	Completed	Test a prototype trawl developed by IMR, Bergen, Norway, which, rather than capturing post-smolts,	2006	Development of methods	Post-smolt survey methods	Scalloway Deepes (Shetland), the Minches	Norway	Julian MacLean, Jens Christian	

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		(IMR), Bergen, Norway, salmon trawl gear		records, by use of CCTV, their passage as they pass through an open-ended trawl net. A supplementary objective, dependent on the success of the gear trials, was to conduct a post-smolt survey at the shelf edge.						Holst, Dick Shelton	
European Union – UK (Scotland)	Sc2	Protecting salmonid fisheries from seal damage	Completed	Develop and apply new molecular tools for discriminating among species of fish in the diets of seals from their remains in scats. Test the possibility of using molecular tools to quantify the occurrence of diet components. Develop and deploy cetacean-friendly seal-scarer. Characterise behavioural interactions between salmon and their predators and seals and their prey. Investigate the digestion of otoliths during passage through a seal's gut.	2003 - 2008	Specific natural and anthropogenic factors	Predation	Principally North-East Scotland (Cromarty Firth). Possible work in other estuaries and extension into West Coast		John Armstrong	
European Union – UK (Scotland)	Sc3	Post-smolt mortality of Atlantic salmon	Ongoing	Assess post-smolt mortality rates of Atlantic salmon from three Scottish rivers, and the contribution of these salmon to fisheries that exploit them.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	North Esk, Western catchment of River Dee, River Conon salmon fishery district		Julian Maclean, John Armstrong	Approximately £50,000
European Union – UK (Scotland)	Sc4	Analysis of post-smolt life history by scale reading	Ongoing	Investigate the relationship between growth and mortality, particularly during the marine phase, by analysis of scale growth patterns.	Annual	Long-term monitoring	Time series of marine survival in relation to environmental parameters	Samples from around Scotland but North Esk and Girnock Burn in particular	USA and Canada	Julian Maclean	Approximately £10,000
European Union – UK (Scotland)	Sc5	Fisheries-induced evolution	Ongoing	Determine the incidence and extent of heritable genetic changes in salmon stocks due to fishery programmes.	2007-2010 Data analysis ongoing	Distribution/migration in the sea	Origin of catches in directed fisheries	Scotland and across European species' distribution, including marine migration routes.	Austria, Norway, France, Denmark, Belgium, UK, Netherlands, Finland, Germany	Ulf Dieckman, John Gilbey, Philip McGinnity	-
European Union – UK (Scotland)	Sc6	Size and condition of returning grilse (1SW) and MSW salmon	Ongoing	Investigate decadal trends in the size and condition of adult salmon returning to Scotland.	Annual	Life history/biological processes	Post-fishery recruitment marine factors	Six locations in Scotland, in particular North Esk.		Philip Bacon	£30,000
European Union – UK (Scotland)	Sc7	Development of a General Spatial Model of within river population structuring in Scottish Atlantic salmon (POPMOD)	Ongoing	Improve the scientific basis for inter alia setting biologically appropriate conservation limits, providing advice on conservation and restoration initiatives, accurately and cost-effectively monitoring the status of salmon stocks. This project will provide baseline information in support of project E2.	2008-2011	Distribution/migration in the sea	Origin of catches in directed fisheries	River systems across Scotland		Eric Verspoor	£267,000
European Union – UK (Scotland)	Sc8	Focusing Atlantic salmon management on Atlantic salmon (FASMOP)	Ongoing	Establish the number and spatial boundaries of breeding populations of salmon within any Scottish river system; establish the ancestral relationships and functional biological differences between wild salmon stock components across Scottish rivers; improve local management practice and increase the focus of management on local breeding populations. This project will provide baseline information in support of project E2.	2009-2011	Distribution/migration in the sea	Origin of catches in directed fisheries	River systems across Scotland		Eric Verspoor	£140,000
Norway	N1	Identification of salmon by geochemical signatures; further development and testing of methods	Completed	Test if geochemical signatures are stable from year to year; test if geochemical signatures of salmon scale samples can be used to discriminate among fish from different rivers; develop analytical procedures (otolith core sampling, chemical and statistical analyses) for application of this method in ecological studies on Atlantic salmon.	2002	Life history/biological processes	Post-fishery recruitment marine factors	Laboratory study		Peder Fiske	
Norway	N2	Development of models to predict marine survival and return of salmon to Norway	Completed	Identify and examine the feasibility of applying time series of marine environmental data, zooplankton productivity, productivity of pelagic fish and salmon life-history information for model development. Develop appropriate models.	2002 - 2005	Long-term monitoring	Time series of marine survival in relation to environmental parameters	Desk study of existing data	USA, Canada, EU	Lars Petter Hansen	

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Norway	N3	By-catch in pelagic fisheries as a population-regulating factor in wild salmon stocks	Completed	Investigate the extent of by-catch of salmon post-smolts and develop management advice to reduce by-catch while maintaining catch rates in the mackerel fishery.	2001 - 2005	Distribution/migration in the sea	By-catches in pelagic fisheries	Norwegian Sea	Russia, Scotland	Jens Christian Holst	
Norway	N4	Sea lice as a population-regulating factor in Norwegian salmon: status, effects of measures taken and future management	Completed	Further clarify the effects of sea lice on wild salmon populations and propose measures to reduce sea lice infections in wild salmon and develop alternative measures in critically affected stocks.	2002 - 2005	Specific natural and anthropogenic factors	Fish farms	Sognefjord and Altafjord		Jens Christian Holst	
Norway	N5	Distribution of salmon in relation to environmental parameters and origin in the North Atlantic – capture, tagging and release of salmon with data storage tags (DSTs)	Completed	Investigate the temporal and spatial distribution of DST-tagged salmon in the Norwegian Sea and adjacent areas, with emphasis on spatial distribution and temperature preferences; growth in relation to environmental parameters; and diurnal vertical distribution.	2003 - 2006	Distribution/migration in the sea	Migratory behaviour of individual fish	Northern North Sea, Norwegian Sea	Faroe Islands, Iceland	Marianne Holm	
Norway	N6	Temporal variation in abundance of the northernmost populations of Atlantic salmon with emphasis on the River Tana	Completed	Examine the influence of ocean climate, predation, marine fisheries and smolt production on the abundance of salmon in the River Tana	2002 - 2006	Long-term monitoring	Time series of marine survival in relation to environmental parameters	River Tana	Finland, Russia, Canada	Martin Svenning	
Norway	N7	The importance of early marine feeding on the growth and survival of Atlantic salmon post-smolts in Norwegian fjords.	Completed	Analyse spatial variation in early marine post-smolt feeding and growth along a north-south geographical scale; investigate how post-smolt feeding and growth is associated with timing of smolt descent, marine prey availability, parasite infection, fjord migration; and abiotic factors.	2002 - 2007	Life history/biological processes	Pre-fishery recruitment marine factors	Central and Northern Norway	Canada	Bengt Finstad	
Norway	N8	Distribution and ecology of post-smolts and salmon at sea.	Completed	Analyse age, growth and migratory paths in relation to environmental conditions and competitors so as to expand understanding of salmon marine life-history in order to explain observed variations in salmon survival.	2002 - 2007	Distribution/migration in the sea	Distribution of salmon in the sea	West of Ireland – Faroes, northern North Sea, Norwegian Sea	Faroe Islands	Marianne Holm	
Norway	N9	Dispersal of salmon lice in Norwegian fjords.	Completed	Estimate and describe to what extent free-living salmon lice larvae disperse from wild and farmed sources within and between areas.	2007	Specific natural and anthropogenic factors	Fish farms	Hardangerfjord, Norway		Karin Kroon Boxaspen	
Norway	N10	Experimental tagging programme for investigating the behaviour of escaped farmed salmon: pilot study.	Completed	Examine the migration of escaped large farmed salmon and test if they are transported with the currents and appear in Norwegian waters.	2006 - 2007	Specific natural and anthropogenic factors	Fish farms			Lars Petter Hansen	
Norway	N11	Individual assignment of salmon caught in the ocean to region of origin	Completed	Investigate genetic variation in Norwegian Atlantic salmon populations on different spatial scales. Provide calibrated data from micro-satellite markers for a database. Analyse samples caught in the ocean and assign to country/region of origin.	2006 - 2009	Distribution/migration in the sea	Origin of catches in directed fisheries	Norway	Finland	Oystein Skaala, Vidar Wennevik	
Norway	N12	Migratory behaviour of smolts and post-smolts of cultured Atlantic salmon	Completed	Study the change in migratory behaviour from smolt during the post-smolt stages in cultured Atlantic salmon.	2008 - 2009	Distribution/migration in the sea	Migratory behaviour of individual fish	Masfjorden, western Norway		Ove Skilbrei	
Norway	N13	Significance of salmon lice for growth and survival of salmon in the sea	Ongoing	Estimate the effects of salmon lice on post-smolt growth and survival, dependent on release site and time and year of release.	2006 - 2011	Specific natural and anthropogenic factors	Fish farms	Western Norway, River Dale, Matre Aquaculture Station		Ove Skilbrei	£75,000
Norway	N14	Marine survival, growth and exploitation of salmon from the Rivers Figgjo, Imsa, Drammenselv and Halselv	Ongoing	Estimate marine survival, marine growth and changes in marine exploitation of salmon from four rivers in Norway. Develop predictive models.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	Rivers Figgjo, Imsa, Drammenselv and Halselv with tag recovery programme in fisheries along Norwegian coast and elsewhere		Lars Petter Hansen, Nina Jonsson. Arne Johan Jensen	£134,000

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Norway	N15	Population-limiting mechanisms for Atlantic salmon during early estuarine and coastal migration (SALPoP)	Ongoing	Map migratory behaviour and quantity where, when and why mortalities occur; correlate data on migration and mortalities with health status and major population-limiting factors; develop improved mitigating actions and management strategies to contribute to sustainability of salmon populations.	2008 - 2012	Distribution/migration in the sea	Migratory behaviour of individual fish	Eresfjord in Møre and Romsdal, mid Norway	Sweden, UK, Canada	Bengt Finstad	£124,500
Norway	N16	The Hardangerfjord salmon lice project	Completed	Improve sea lice monitoring and management; evaluate success of sea lice management strategies; quantify the abundance and distribution of salmon lice in the Hardangerfjord area; analyse data sets for possible risk factors associated with varying lice infection pressure.	2007 – 2010	Specific natural and anthropogenic factors	Fish farms	Hardangerfjord on the Norwegian west coast	Canada, UK	Bengt Finstad	
Norway	N17	Origin of Atlantic salmon off Svalbard	Ongoing	Identify the origin of Atlantic salmon occurring in gill net fisheries at Isfjorden, Spitsbergen, by life history (age, growth) and genetic analyses.	2008 – 2012	Distribution/migration in the sea	Origin of catches in directed fisheries	Isfjorden, Spitsbergen		Arne Johan Jensen	£7,500
Norway	N18	SALMOTRACK - Electronic tracking of northern anadromous salmonids	Ongoing	Track different life-stages of northern Atlantic salmon and other anadromous species in river, fjord and open ocean.	2006 - 2012	Distribution/migration in the sea	Migratory behaviour of individual fish	Northern Norway (2007-2012); Mid Norway (2010); Western Norway (2006)	Denmark, UK, Finland, USA, Japan, Ireland, Canada	Audun H. Rikardsen,	£250,000
Norway	N19	Trilateral cooperation on our common resource; the Atlantic salmon in the Barents region	Ongoing – New Entry	Develop an integrated, long-term management of Atlantic salmon in the sea and in rivers in the northernmost distribution areas of the Atlantic salmon; provide data to implement customized, sustainable, knowledge-based harvesting regimes, and to preserve the rich traditions of fishing and coastal culture; unite empirical knowledge (local and traditional) with scientific knowledge; provide synthesized and new knowledge about Atlantic salmon, its adaptation to climate change and its migration along the coast.	2011 - 2013	Distribution/migration in the sea	Origin of catches in directed fisheries	Barents region; Northern Norway, Finland and Russia	Finland, Russian Federation	Tiia Kalske	£800,000
Russian Federation	R1	Assessment of by-catch of post-smolts of Atlantic salmon in pelagic fisheries in the Norwegian Sea.	Completed	Assess the occurrence of post-smolts in catches by Russian vessels engaged in the pelagic fisheries for mackerel, blue whiting and herring.	2002 - 2007	Distribution/migration in the sea	By-catches in pelagic fisheries	Norwegian Sea		Boris Prischepa, Alexander Zubchenko	
Russian Federation	R2	Monitoring of the stock status, abundance assessment and provision of advice on the allowable level of harvest of Atlantic salmon	Ongoing	Estimate survival of juveniles and adult return rates, estimate natural and fishing mortality, study population dynamics; assess population sizes and spawning escapement; and estimate allowable catch.	Annual	Long-term monitoring	Time series of marine survival/growth estimates	Atlantic salmon rivers of the Kola Peninsula, Archangel Region and Karelian Republic		Sergey Prusov, Gennady Ustuzhinsky	£80,000
Russian Federation	R3	Establishing a genetic baseline of northern salmon populations across the Russian – Norwegian border for management purposes.	Completed	Establish a genetic baseline of sufficient resolution for the purposes of partitioning bag net catches between Russian and Norwegian regions.	2009 - 2010	Distribution/migration in the sea	Origin of catches in directed fisheries	Northern Norway, North West of the Russian Federation	Norway	Vidar Wennevik (IMR), Sergey Prusov (PINRO)	
United States of America	U1	Forecasts of Atlantic salmon transoceanic migration: climate change scenarios and anadromy in the North Atlantic	Completed	Develop and evaluate marine migration models for Atlantic salmon from North America and Europe; evaluate the potential effects of climate change on migration patterns of Atlantic salmon.	2002 - 2004	Distribution/migration in the sea	Migration and bioenergetic models	Desk study	Canada	Kevin Friedland	
United States of America	U2	Stable isotope composition of Atlantic salmon scales	Completed	Develop a retrospective time series of stable isotope ratios for the DPS in Maine and the mixed-stock samples from the continental stock complex to evaluate feeding patterns of the stocks over time.	2001 - 2002	Life history/biological processes	Post-fishery recruitment marine factors	Desk study. Analysis of scale samples collected at West Greenland and from US returns.	International collaboration in obtaining samples	Kevin Friedland	
United States of America	U3	Ultrasonic telemetry of smolts and post-smolts in the Narraguagus River and	Completed	Evaluate migration timing and pathways in the lower Narraguagus River and Narraguagus Bay and estimate survival of migrating smolts and	2002 - 2009	Distribution/migration in the sea	Migratory behaviour of individual fish	Narraguagus River and Narraguagus Bay (2002-2005). Gulf of Maine (2002-	Canada	James Hawkes	

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		Narraguagus Bay		post-smolts.				2004)			
United States of America	U4	Penobscot hatchery versus wild smolt telemetry	Ongoing	Evaluate migration timing and pathways in the Penobscot Estuary and Bay and estimate survival of migrating smolts and post-smolts.	2005 - 2012	Distribution/ migration in the sea	Migratory behaviour of individual fish	Penobscot Estuary, Penobscot Bay	Canada	James Hawkes	£66,750
United States of America	U5	Comprehensive evaluation of marine survival of hatchery-stocked smolts: migration behaviour and success of Dennys River smolts	Ongoing	Evaluate migration speed and behaviour from lower river release sites through estuarine habitat; estimate survival of migrating smolts and identify areas where mortality may be occurring.	2001 - 2012	Distribution/ migration in the sea	Migratory behaviour of individual fish	Dennys River, Cobscook Bay, Gulf of Maine	Canada	James Hawkes	£3,500
United States of America	U6	Comprehensive evaluation of marine survival of hatchery-stocked smolts: Dennys River smolt stocking assessment	Ongoing	Evaluate smolt-to-adult survival rates based on temporal and spatial patterns of release; determine optimal stocking levels to achieve stock rebuilding objectives.	2001 - 2011	Long-term monitoring	Time series of marine survival/growth estimates	Dennys River, Cobscook Bay, Gulf of Maine	Recovery of marked fish through NASCO West Greenland sampling programme	Joan Trial	£14,000
United States of America	U7	Evaluation of estuary and nearshore marine distributions of Atlantic salmon post-smolts in Penobscot Bay and the Gulf of Maine	Ongoing	Evaluate nearshore distribution and migration pathways of smolts and post-smolts; estimate the relative contribution of stocked hatchery smolts to overall post-smolt populations; evaluate the relative contribution of spatially and temporally distinct smolt releases on post-smolt populations; evaluate the physiological condition of post-smolts in marine environments.	2001 - 2011	Distribution/ migration in the sea	Distribution of salmon in the sea	Penobscot Bay, Gulf of Maine		Tim Sheehan	£20,000
United States of America	U8	Cormorant harassment in the Narraguagus River/Narraguagus Bay	Ongoing	Reduce predation on migrating salmon smolts by excluding double-crested cormorants from the Lower Narraguagus River and Bay, and assess the efficiency of non-lethal predator exclusion as a means of reducing predation on migrating Atlantic salmon smolts.	2005 - 2011	Specific natural and anthropogenic factors	Predation	Lower Narraguagus River, Estuary and Narraguagus Bay, Maine		James Hawkes	£3,500
United States of America	U9	SALSEA Greenland	Ongoing	Advance understanding of the ecology of the Atlantic salmon West Greenland stock complex and to gain an insight into the factors resulting in recent significant increases in marine mortality across the North Atlantic. (The baseline sampling programme at West Greenland is described in project D1)	2009 - 2013	Distribution/ migration in the sea	Origin of catches in directed fisheries	Sisimiut, Nuuk and Qaqortoq, Greenland	Canada and SALSEA-Merge consortium	Tim Sheehan	£33,000
United States of America	U10	Using Pop-up Satellite Tags (PSATs) to track immature adult Atlantic salmon in the Northwest Atlantic	Ongoing – New Entry	Provide information on localized movement patterns of Atlantic salmon off the coast of West Greenland, large scale movement and migration patterns en route to natal rivers in North America and Europe, locations of overwinter residence and depths and temperatures experienced during the second or third winter at sea in the North Atlantic. These data will be used to evaluate if conditions experienced from September through April are favourable for survival and subsequent spawning escapement.	2010-2015	Distribution / migration in the sea	Migratory behaviour of individual fish	Coastal waters off West Greenland	Norway, Greenland, and Canada	Mark Renkawitz	£34,000
United States of America	U11	Impact of oceanographic changes on Atlantic salmon survival in the Northwest Atlantic	Ongoing – New Entry	Determine mechanisms controlling the ecosystem-salmon connections and hypothesize on their implications for salmon populations in the future.	2010-2012	Long-term monitoring	Time series of marine survival in relation to environmental parameters	Desk study		Tim Sheehan	£133,000
United States of America	U12	Evaluation of the importance of predator and prey fields and ocean circulation on Atlantic salmon growth and survival in the Gulf of Maine	Ongoing – New Entry	Evaluate the consequences for Atlantic salmon post-smolt growth and survival of the match or mismatch of spawning runs of diadromous fishes, aggregations of other marine forage fishes, and thermal/circulation patterns in the Gulf of Maine (GoM) with the timing of Atlantic salmon out-migration.	2010-2012	Life history/biological processes	Pre-fishery recruitment marine factors	Desk study		John Kocik	£100,000

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France – St Pierre and Miquelon	F1	St Pierre and Miquelon Salmon Fishery Sampling Programme	Ongoing	<p>Improve understanding of the biological characteristics and origin of salmon harvested in the fishery at St Pierre and Miquelon.</p> <p>Note: A separate study is being conducted in the Belle Rivière (Miquelon-Langlade) and lakes to improve understanding of the biological characteristics and origin of salmon captured in this river and to provide scientific information about functional and ecological links of the Belle Rivière hydro system</p>	Annual	Distribution/ migration in the sea	Origin of catches in directed fisheries	Around St Pierre and Miquelon	Canada	Herlé Goragner	-