



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data **Bush Adult scale archive**
Sample Collection

Information Description
(e.g. including location of data/sample collection, # of samples)
Scales of returning adults from River Bush Adult trap

Information Type **Biological Samples**

Data Type

- Assessment Data
- Tag Release/Recovery
- Freshwater Surveys
- Marine Surveys
- Index River Monitoring
- Genetic Baselines
- Other

Biological Sample Type

- Scales
- Otoliths
- Tissue
- Stomach Contents
- Parasites
- Plankton
- Other

Start Year of Information **1973**

End Year of Information **2019**

Information Source **National**

Jurisdictions included in Data/Samples:

- Canada
- Denmark
- Faroe Islands
- Finland
- France
- Germany
- Greenland
- Ireland
- Norway
- Portugal
- Russia
- Spain
- Sweden
- England & Wales
- N. Ireland
- Scotland
- USA
- Iceland
- St.Pierre et Miquelon
- Unknown
- Potentially All

Information Location, i.e. Institute or Laboratory

Bushmills

Information Manager's Name **Dennis Ensing**

Information Manager Email **dennis.ensing@afbini.gov.uk**

Accessibility of Information **On Request**



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Additional Information

Bush Adult scale archive

On Request



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data **Bush Smolt scale archive**
Sample Collection

Information Description
(e.g. including location of data/sample collection, # of samples)

Scales of descending smolts from River Bush smolt trap

Information Type **Biological Samples**

Data Type

- Assessment Data
- Tag Release/Recovery
- Freshwater Surveys
- Marine Surveys
- Index River Monitoring
- Genetic Baselines
- Other

Biological Sample Type

- Scales
- Otoliths
- Tissue
- Stomach Contents
- Parasites
- Plankton
- Other

Start Year of Information **1973**

End Year of Information **2019**

Information Source **National**

Jurisdictions included in Data/Samples:

- Canada
- Denmark
- Faroe Islands
- Finland
- France
- Germany
- Greenland
- Ireland
- Norway
- Portugal
- Russia
- Spain
- Sweden
- England & Wales
- N. Ireland
- Scotland
- USA
- Iceland
- St.Pierre et Miquelon
- Unknown
- Potentially All

Information Location, i.e. Institute or Laboratory

Bushmills

Information Manager's Name **Dennis Ensing**

Information Manager Email **dennis.ensing@afbini.gov.uk**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

Bush Smolt scale archive

On Request



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **Kolarctic Coastal samples**

Information Description (e.g. including location of data/sample collection, # of samples) Scale samples collected from coastal fisheries for Atlantic salmon in Nordland, Troms and Finnmark counties, Norway. In total over 26,000 samples were collected, analysed for origin (wild/farmed), smolt and sea age. Scales were also used for genetic analysis, and individual fish were assigned to region and river origin by comparison to a comprehensive genetic baseline of 185 rivers.

Information Type **Biological Samples**

- Data Type
- Assessment Data
 - Tag Release/Recovery
 - Freshwater Surveys
 - Marine Surveys
 - Index River Monitoring
 - Genetic Baselines
 - Other

- Biological Sample Type
- Scales
 - Otoliths
 - Tissue
 - Stomach Contents
 - Parasites
 - Plankton
 - Other

Start Year of Information **2008**

End Year of Information **2012**

Information Source **International**

- Jurisdictions included in Data/Samples:
- Canada
 - Denmark
 - Faroe Islands
 - Finland
 - France
 - Germany
 - Greenland
 - Ireland
 - Norway
 - Portugal
 - Russia
 - Spain
 - Sweden
 - England & Wales
 - N. Ireland
 - Scotland
 - USA
 - Iceland
 - St.Pierre et Miquelon
 - Unknown
 - Potentially All

Information Location, i.e. Institute or Laboratory
Institute of Marine Research, Bergen, Norway

Information Manager's Name **Vidar Wennevik**

Information Manager Email **Vidar.Wennevik@imr.no**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

Kolarctic Coastal samples

http://prosjekt.fylkesmannen.no/Documents/Kolarctic%20salmon/Dokument/Scientific%20reports/KO197_Kolarctic%20salmon_summary%202011-2012%20-%20Report%20III_12.3%20Web.pdf



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Name of Data Sample Collection **PINRO Atlantic salmon scales collection**

Information Description (e.g. including location of data/sample collection, # of samples) Atlantic salmon scales collected in rivers within the Kola Peninsula, Russia during annual surveys. Over 160,000 samples were collected and read for smolt and sea age.

Information Type **Biological Samples**

Data Type Assessment Data
 Tag Release/Recovery
 Freshwater Surveys
 Marine Surveys
 Index River Monitoring
 Genetic Baselines
 Other

Biological Sample Type Scales
 Otoliths
 Tissue
 Stomach Contents
 Parasites
 Plankton
 Other

Start Year of Information **1960**

End Year of Information **Ongoing**

Information Source **National**

Jurisdictions included in Data/Samples: Canada
 Denmark
 Faroe Islands
 Finland
 France
 Germany
 Greenland
 Ireland
 Norway
 Portugal
 Russia
 Spain
 Sweden
 England & Wales
 N. Ireland
 Scotland
 USA
 Iceland
 St.Pierre et Miquelon
 Unknown
 Potentially All

Information Location, i.e. Institute or Laboratory
The Knipovich Polar Research Institute of Marine Fisheries and Oceanography (PINRO), Murmansk, Russia

Information Manager's Name **Sergey Prusov**

Information Manager Email **prusov@pinro.ru**

Accessibility of Information **Developing Protocols**



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Additional Information

PINRO Atlantic salmon scales collection

On Request



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **Saint-Pierre and Miquelon Salmon Fishery Sampling Program**

Information Description (e.g. including location of data/sample collection, # of samples) Sampling program of salmon harvested at sea around St Pierre et Miquelon by recreational fishery. The project was developed through co-operation with NASCO and was designed so as to include three components: - A biometric study - A genetic study - A disease and parasite study. In 2020, the sampling program of salmon harvested at sea around St Pierre et Miquelon was continued by Ifremer between 28 May and 10 July. 116 salmon, harvested around both islands of Miquelon and St Pierre, were measured and weighted (+ 12% compared to 2019, 21% of total catches). The collaboration between Ifremer-St Pierre and Miquelon and DFO-Newfoundland and Labrador set up in 2013 and continued in 2019. Scales and tissue samples taken from the 116 salmon were transmitted by Ifremer to the DFO laboratory in St John's, Newfoundland for age determination and genetic analyses.

Information Type **Biological Samples**

Data Type Assessment Data
 Tag Release/Recovery
 Freshwater Surveys
 Marine Surveys
 Index River Monitoring
 Genetic Baselines
 Other

Biological Sample Type Scales
 Otoliths
 Tissue
 Stomach Contents
 Parasites
 Plankton
 Other

Start Year of Information **2020**

End Year of Information **2020**

Information Source **National**

Jurisdictions included in Data/Samples: Canada
 Denmark
 Faroe Islands
 Finland
 France
 Germany
 Greenland
 Ireland
 Norway
 Portugal
 Russia
 Spain
 Sweden
 England & Wales
 N. Ireland
 Scotland
 USA
 Iceland
 St. Pierre et Miquelon
 Unknown
 Potentially All

Information Location, i.e. Institute or Laboratory

France (In respect of St Pierre and Miquelon)

Information Manager's Name **Herlé Goraguer**

Information Manager Email **herle.goraguer@ifremer.fr**



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Accessibility of Information



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Additional Information

Saint-Pierre and Miquelon Salmon Fishery Sampling Program



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **Salmon Genetic Samples**

Information Description
(e.g. including location of data/sample collection, # of samples)

Samples of Hatchery and wild caught Salmon in the Rhine System

Information Type **Biological Samples**

Data Type

- Assessment Data
- Tag Release/Recovery
- Freshwater Surveys
- Marine Surveys
- Index River Monitoring
- Genetic Baselines
- Other

Biological Sample Type

- Scales
- Otoliths
- Tissue
- Stomach Contents
- Parasites
- Plankton
- Other

Start Year of Information **2017**

End Year of Information **2025**

Information Source **International**

Jurisdictions included in Data/Samples:

- Canada
- Denmark
- Faroe Islands
- Finland
- France
- Germany
- Greenland
- Ireland
- Norway
- Portugal
- Russia
- Spain
- Sweden
- England & Wales
- N. Ireland
- Scotland
- USA
- Iceland
- St.Pierre et Miquelon
- Unknown
- Potentially All

Information Location, i.e. Institute or Laboratory

International Commission for the Protection of the Rhine (ICPR) in Koblenz

Information Manager's Name **Pascal Vonlanthen / Laura Poinot**

Information Manager Email **p.vonlanthen@aquabios.ch / laura.poinot@iksr.de**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

Salmon Genetic Samples



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **SALSEA - Merge biological samples**

Information Description (e.g. including location of data/sample collection, # of samples) Held in various locations and includes samples analysed and those yet to be analysed. Some samples are committed to existing studies.

Information Type **Biological Samples**

Data Type

- Assessment Data
- Tag Release/Recovery
- Freshwater Surveys
- Marine Surveys
- Index River Monitoring
- Genetic Baselines
- Other

Biological Sample Type

- Scales
- Otoliths
- Tissue
- Stomach Contents
- Parasites
- Plankton
- Other

Start Year of Information **2008**

End Year of Information **2009**

Information Source **International**

Jurisdictions included in Data/Samples:

- Canada
- Denmark
- Faroe Islands
- Finland
- France
- Germany
- Greenland
- Ireland
- Norway
- Portugal
- Russia
- Spain
- Sweden
- England & Wales
- N. Ireland
- Scotland
- USA
- Iceland
- St.Pierre et Miquelon
- Unknown
- Potentially All

Information Location, i.e. Institute or Laboratory

Marine Institute Ireland
Faroes Marine Research Institute
Institute of Marine Research Norway

Information Manager's Name **Dr Niall Ó Maoiléidigh**

Information Manager Email **niall.omaileidigh@marine.ie**

Accessibility of Information **Developing Protocols**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

SALSEA - Merge biological samples

<http://www.nasco.int/sas/salsea.htm>

Jensen, A. J., O'Maoiléidigh, N., Thomas, K., Einarsson, S. M., Haugland, M., Erkinaro, J., Fiske, P., Friedland, K. D., Gudmundsdottir, A. K., Haantie, J., Holm, M., Holst, J. C., Jacobsen, J. A., Jensås, J. G., Kuusela, J., Melle, W., Mork, K. A., Wennevik, V., and Østborg, G. M. 2012. Age and fine-scale marine growth of Atlantic salmon post-smolts in the Northeast Atlantic. – *ICES Journal of Marine Science*, 69: 1668 – 1677.

<http://icesjms.oxfordjournals.org/content/69/9/1668.abstract>



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data **SALSEA Greenland**
Sample Collection

Information Description (e.g. including location of data/sample collection, # of samples) Samples came from a land-based marine survey of Atlantic salmon harvested in the mixed-stock fishery off the west coast of Greenland. Biological characteristics data, tissue for DNA sampling, preserved sea lice, various tissue samples for a variety of disease and parasite sampling (heart, kidney, spleen, pyloric caeca, gill arch, liver, gill filaments, brain, heart, muscle, intestines), stomach samples, variety of tissue samples for stable isotope sampling (scales, liver, muscle, caudal fin, adipose), tissue for lipid sampling, otoliths, and scales were collected and are in various states of processing and availability.

Information Type **Biological Samples**

- Data Type
- Assessment Data
 - Tag Release/Recovery
 - Freshwater Surveys
 - Marine Surveys
 - Index River Monitoring
 - Genetic Baselines
 - Other

- Biological Sample Type
- Scales
 - Otoliths
 - Tissue
 - Stomach Contents
 - Parasites
 - Plankton
 - Other

Start Year of Information **2009**

End Year of Information **2011**

Information Source **International**

- Jurisdictions included in Data/Samples:
- Canada
 - Denmark
 - Faroe Islands
 - Finland
 - France
 - Germany
 - Greenland
 - Ireland
 - Norway
 - Portugal
 - Russia
 - Spain
 - Sweden
 - England & Wales
 - N. Ireland
 - Scotland
 - USA
 - Iceland
 - St.Pierre et Miquelon
 - Unknown
 - Potentially All

Information Location, i.e. Institute or Laboratory

NOAA Fisheries Service, Woods Hole MA, USA.

Information Manager's Name **Timothy Sheehan**

Information Manager Email **Tim.Sheehan@noaa.gov**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

SALSEA Greenland

<http://www.nasco.int/sas/salsea.htm>

ICES. 2012. Report of the Working Group on North Atlantic Salmon (WGNAS), 26 March – 4 April 2012, Copenhagen, Denmark. ICES CM 2012/ACOM:09. 322 pp.

<http://www.ices.dk/community/groups/Pages/WGNAS.aspx>

Dixon, H. J., Power, M., Dempson, J. B., Sheehan, T. F., and Chaput, G. 2012. Characterizing the trophic position shift in Atlantic salmon (*Salmo salar*) from freshwater to marine life-cycle phases using stable isotopes. *ICES Journal of Marine Science*, 69: 1646–1655.

<http://icesjms.oxfordjournals.org/content/69/9/1646.abstract>



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **SALSEA North America biological samples**

Information Description (e.g. including location of data/sample collection, # of samples) Samples came from a marine pelagic survey targeting Atlantic salmon in the Labrador Sea. Biological characteristics data, tissue for DNA sampling, preserved sea lice, various tissue samples for a variety of disease and parasite sampling (heart, kidney, spleen, pyloric caeca, gill arch, liver, gill filaments, brain, heart, muscle, intestines), stomach samples, variety of tissue samples for stable isotope sampling (scales, liver, muscle, caudal fin, adipose), tissue for lipid sampling, otoliths, scales and plankton samples at select locations were collected and are in various states of processing and availability.

Information Type **Biological Samples**

- Data Type
- Assessment Data
 - Tag Release/Recovery
 - Freshwater Surveys
 - Marine Surveys
 - Index River Monitoring
 - Genetic Baselines
 - Other

- Biological Sample Type
- Scales
 - Otoliths
 - Tissue
 - Stomach Contents
 - Parasites
 - Plankton
 - Other

Start Year of Information **2008**

End Year of Information **2009**

Information Source **International**

- Jurisdictions included in Data/Samples:
- Canada
 - Denmark
 - Faroe Islands
 - Finland
 - France
 - Germany
 - Greenland
 - Ireland
 - Norway
 - Portugal
 - Russia
 - Spain
 - Sweden
 - England & Wales
 - N. Ireland
 - Scotland
 - USA
 - Iceland
 - St.Pierre et Miquelon
 - Unknown
 - Potentially All

Information Location, i.e. Institute or Laboratory

NOAA Fisheries Service, Woods Hole MA, USA.

Information Manager's Name **Timothy Sheehan**

Information Manager Email **Tim.Sheehan@noaa.gov**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

SALSEA North America biological samples

<http://www.nasco.int/sas/salsea.htm>

Sheehan, T. F., Reddin, D. G., Chaput, G., and Renkawitz, M. D. 2012. SALSEA North America: a pelagic ecosystem survey targeting Atlantic salmon in the Northwest Atlantic. *ICES Journal of Marine Science*, 69: 1580 – 1588.

<http://icesjms.oxfordjournals.org/content/69/9/1580.abstract>



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **Scale sampling for smolts and adults from River Tamar (England)**

Information Description (e.g. including location of data/sample collection, # of samples) Smolt trapping: subset of catch sampled for scales and lengths; Adult trapping: catch sampled for scales, length and weight

Information Type **Biological Samples**

Data Type Assessment Data
 Tag Release/Recovery
 Freshwater Surveys
 Marine Surveys
 Index River Monitoring
 Genetic Baselines
 Other

Biological Sample Type Scales
 Otoliths
 Tissue
 Stomach Contents
 Parasites
 Plankton
 Other

Start Year of Information **2002**

End Year of Information **Ongoing**

Information Source **National**

Jurisdictions included in Data/Samples: Canada
 Denmark
 Faroe Islands
 Finland
 France
 Germany
 Greenland
 Ireland
 Norway
 Portugal
 Russia
 Spain
 Sweden
 England & Wales
 N. Ireland
 Scotland
 USA
 Iceland
 St.Pierre et Miquelon
 Unknown
 Potentially All

Information Location, i.e. Institute or Laboratory
Environment Agency

Information Manager's Name **Rob Hillman**

Information Manager Email **rob.hillman@environment-agency.gov.uk**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

Scale sampling for smolts and adults from River Tamar (England)

On Request



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **Scales from adults from the River Tyne (England)**

Information Description (e.g. including location of data/sample collection, # of samples) Rod caught logbook scheme and broodstock collection adult scales, length and/or weight.

Information Type **Biological Samples**

- Data Type
- Assessment Data
 - Tag Release/Recovery
 - Freshwater Surveys
 - Marine Surveys
 - Index River Monitoring
 - Genetic Baselines
 - Other

- Biological Sample Type
- Scales
 - Otoliths
 - Tissue
 - Stomach Contents
 - Parasites
 - Plankton
 - Other

Start Year of Information **1996**

End Year of Information **Ongoing**

Information Source **National**

- Jurisdictions included in Data/Samples:
- Canada
 - Denmark
 - Faroe Islands
 - Finland
 - France
 - Germany
 - Greenland
 - Ireland
 - Norway
 - Portugal
 - Russia
 - Spain
 - Sweden
 - England & Wales
 - N. Ireland
 - Scotland
 - USA
 - Iceland
 - St.Pierre et Miquelon
 - Unknown
 - Potentially All

Information Location, i.e. Institute or Laboratory
Environment Agency

Information Manager's Name **Morton Heddell-Cowie**

Information Manager Email **morton.heddell-cowie@environment-agency.gov.uk**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

Scales from adults from the River Tyne (England)



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **Scales from smolts and adults from the River Dee (Wales)**

Information Description (e.g. including location of data/sample collection, # of samples) Smolt trapping: subset of catch sampled for scales and lengths; Adult trapping: catch sampled for scales, length and weight

Information Type **Biological Samples**

Data Type Assessment Data
 Tag Release/Recovery
 Freshwater Surveys
 Marine Surveys
 Index River Monitoring
 Genetic Baselines
 Other

Biological Sample Type Scales
 Otoliths
 Tissue
 Stomach Contents
 Parasites
 Plankton
 Other

Start Year of Information **1991**

End Year of Information **Ongoing**

Information Source **National**

Jurisdictions included in Data/Samples: Canada
 Denmark
 Faroe Islands
 Finland
 France
 Germany
 Greenland
 Ireland
 Norway
 Portugal
 Russia
 Spain
 Sweden
 England & Wales
 N. Ireland
 Scotland
 USA
 Iceland
 St.Pierre et Miquelon
 Unknown
 Potentially All

Information Location, i.e. Institute or Laboratory

Natural Resources Wales

Information Manager's Name **Ian Davidson**

Information Manager Email **Ian.Davidson@cyfoethnaturiolcymru.gov.uk**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

Scales from smolts and adults from the River Dee (Wales)

On Request



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **Scales from smolts and adults from the River Frome (England)**

Information Description (e.g. including location of data/sample collection, # of samples) Smolt trapping: subset of catch sampled for scales and lengths; Adult returns registered automatically by PIT readers

Information Type **Biological Samples**

Data Type

- Assessment Data
- Tag Release/Recovery
- Freshwater Surveys
- Marine Surveys
- Index River Monitoring
- Genetic Baselines
- Other

Biological Sample Type

- Scales
- Otoliths
- Tissue
- Stomach Contents
- Parasites
- Plankton
- Other

Start Year of Information **2002**

End Year of Information **Ongoing**

Information Source **National**

Jurisdictions included in Data/Samples:

- Canada
- Denmark
- Faroe Islands
- Finland
- France
- Germany
- Greenland
- Ireland
- Norway
- Portugal
- Russia
- Spain
- Sweden
- England & Wales
- N. Ireland
- Scotland
- USA
- Iceland
- St.Pierre et Miquelon
- Unknown
- Potentially All

Information Location, i.e. Institute or Laboratory
Game & Wildlife Conservation Trust / Cefas

Information Manager's Name **Rasmus Lauridsen**

Information Manager Email **rlauridsen@gwct.org.uk**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

Scales from smolts and adults from the River Frome (England)

On Request



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Name of Data Sample Collection **USA origin juvenile and adult scale samples**

Information Description (e.g. including location of data/sample collection, # of samples) Scale samples collected from juvenile (parr and smolt) and adult USA origin Atlantic salmon from multiple rivers throughout the USA range of the species and across varying numbers of years

Information Type **Biological Samples**

Data Type

- Assessment Data
- Tag Release/Recovery
- Freshwater Surveys
- Marine Surveys
- Index River Monitoring
- Genetic Baselines
- Other

Biological Sample Type

- Scales
- Otoliths
- Tissue
- Stomach Contents
- Parasites
- Plankton
- Other

Start Year of Information **1946**

End Year of Information **Ongoing**

Information Source **National**

Jurisdictions included in Data/Samples:

- Canada
- Denmark
- Faroe Islands
- Finland
- France
- Germany
- Greenland
- Ireland
- Norway
- Portugal
- Russia
- Spain
- Sweden
- England & Wales
- N. Ireland
- Scotland
- USA
- Iceland
- St.Pierre et Miquelon
- Unknown
- Potentially All

Information Location, i.e. Institute or Laboratory
NOAA Fisheries Service, Woods Hole MA 02540
USA

Information Manager's Name **Timothy Sheehan**

Information Manager Email **Tim.Sheehan@noaa.gov**

Accessibility of Information **On Request**



IASRB Metadatabase of Salmon Survey Data and Sample Collections of Relevance to Mortality of Salmon at Sea

Additional Information

USA origin juvenile and adult scale samples

On Request