



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

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

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
- UK - England & Wales
- UK - N. Ireland
- UK – 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 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 Sample Collection **Bush Smolt scale archive**

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
- UK - England & Wales
- UK - N. Ireland
- UK – 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
- UK - England & Wales
- UK - N. Ireland
- UK - 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](http://prosjekt.fylkesmannen.no/Documents/Kolarctic%20salmon/Dokument/Scientific%20reports/KO197_Kolarctic%20salmon_summary%202011-2012%20-%20Report%20III_12.3%20Web.pdf)



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

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
- UK - England & Wales
- UK - N. Ireland
- UK - 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**



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

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 **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
- UK - England & Wales
- UK - N. Ireland
- UK - 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.omaoleidigh@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 Sample Collection **SALSEA Greenland**

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
  - UK - England & Wales
  - UK - N. Ireland
  - UK - 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
- UK - England & Wales
- UK - N. Ireland
- UK - 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
- UK - England & Wales
- UK - N. Ireland
- UK – 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 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
- UK - England & Wales
- UK - N. Ireland
- UK – 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
  - UK - England & Wales
  - UK - N. Ireland
  - UK – 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
- UK - England & Wales
- UK - N. Ireland
- UK – 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