Agenda

11.00 *Welcome and introduction*Prof Dave Barclay

11.15 Background to the Fisheries
Review / FMO process
Peter Jarosz

11:30 Questions

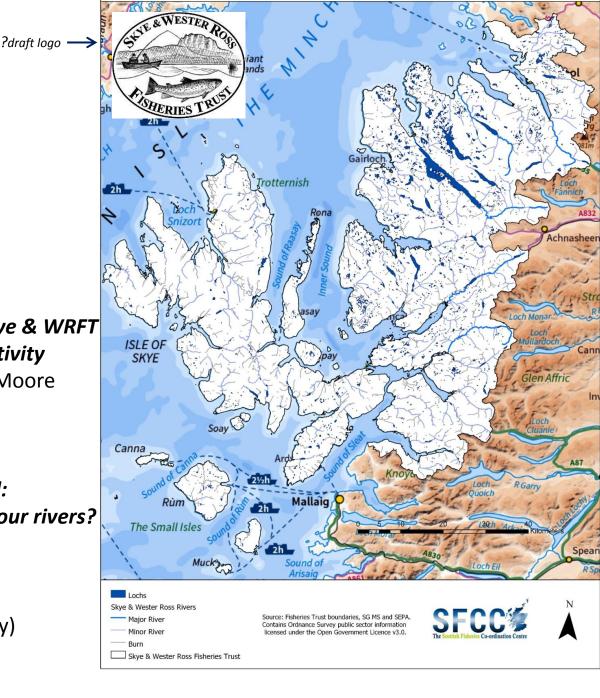
11:40 Reviews of some current Skye & WRFT research and monitoring activity
Peter Cunningham & Isabel Moore

12:30 *Lunch*

13:15 Skye & WRFT FMO proposal:
how does this best address our rivers?
lan Lindsay

14:00 *Open Discussion* (Chaired by Prof Dave Barclay)

15:30 Tea and depart





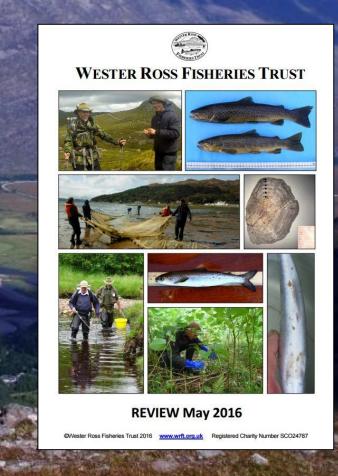
A review of some recent Wester Ross Fisheries Trust

activities

Peter D. Cunningham

24th October 2016

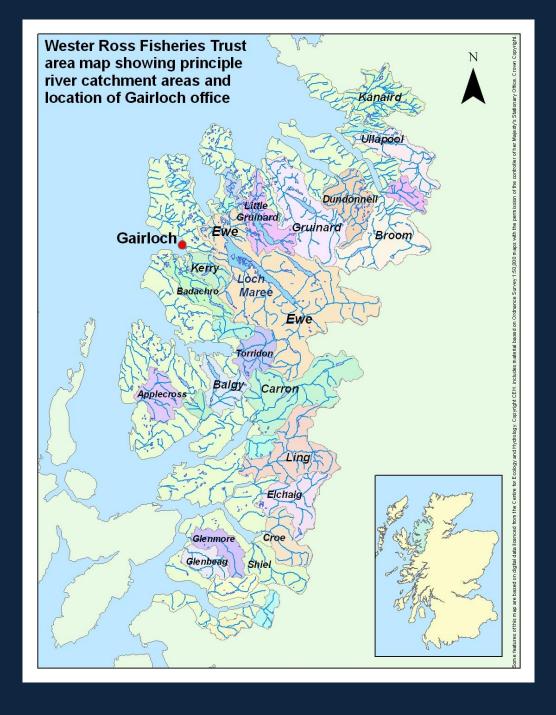
info@wrft.org.uk

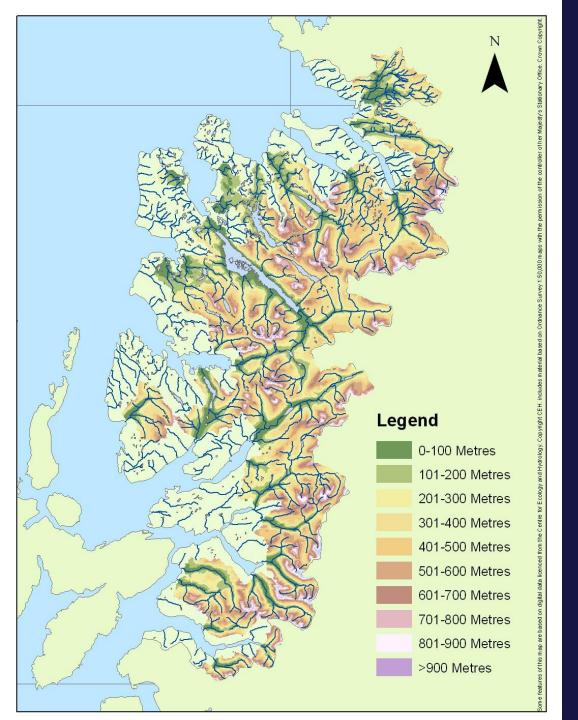




Summary

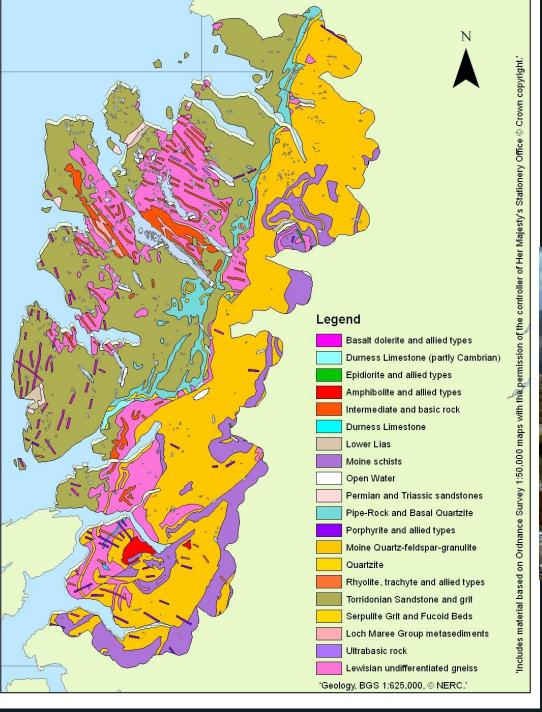
- •Fish & fisheries in Wester Ross
- •Juvenile salmon monitoring and the freshwater environment
- Sea trout monitoring and coastal seas
- •Thank you to volunteers and supporters!





Wester Ross

Land of glaciated mountains, lochs and short, swiftly flowing rivers . . .



. . . underlain by Torridonian sandstone and Lewisian Gneiss.









Sundew

Bog asphodel

Narthecium ossifragum "bone breaker"



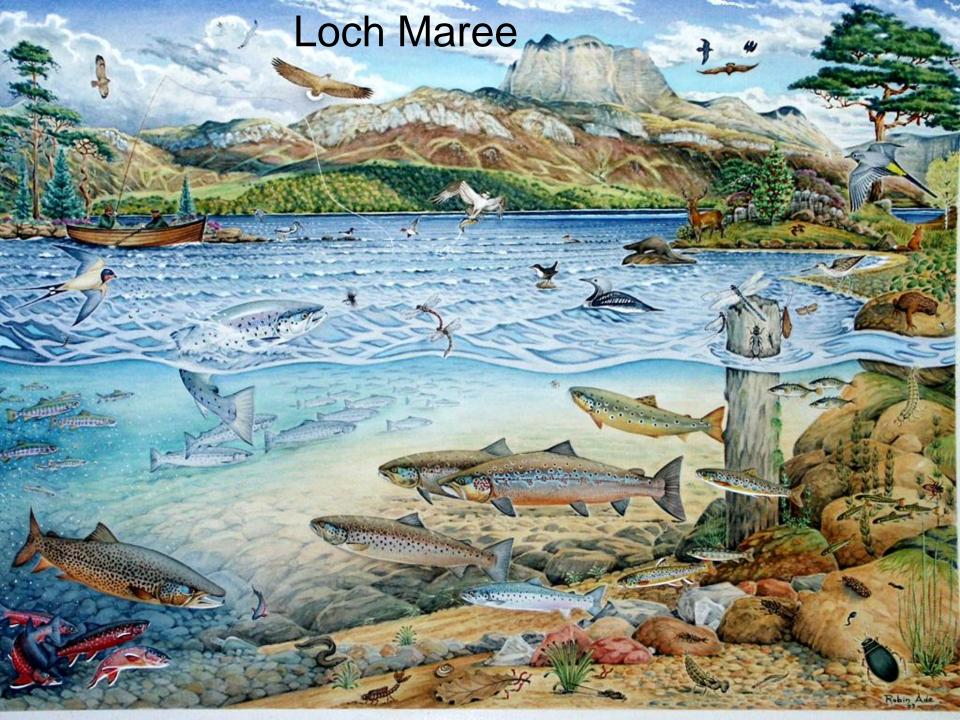


Strath na Sealga, upper Gruinard: note alder woodland along floodplain



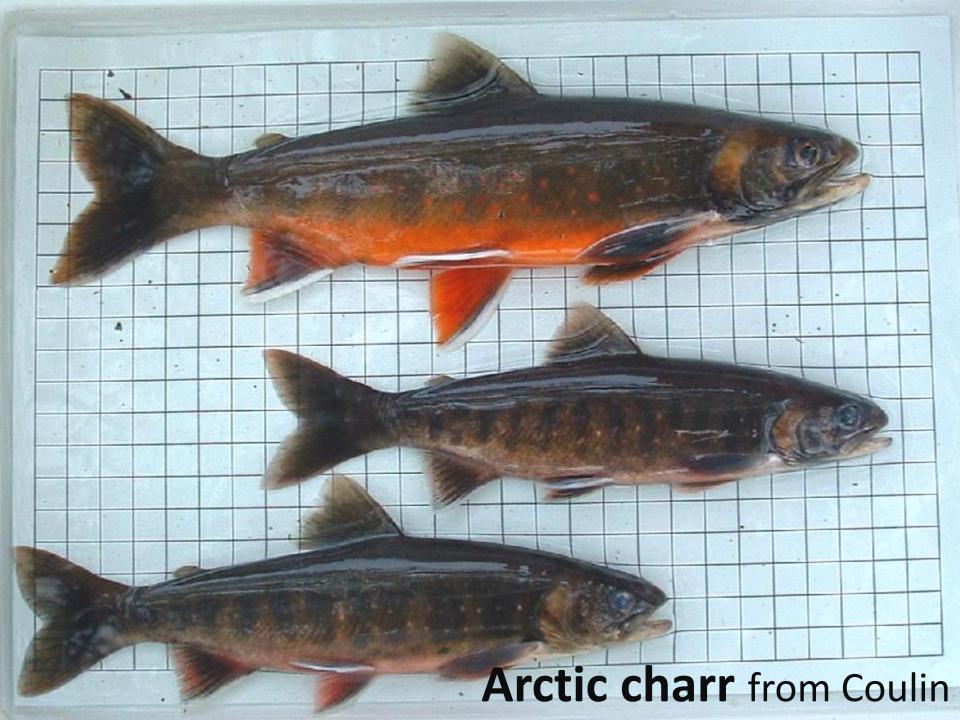








Two forms of **Arctic charr** from Loch Maree



Brown trout Salmo trutta

Sea trout and brown trout



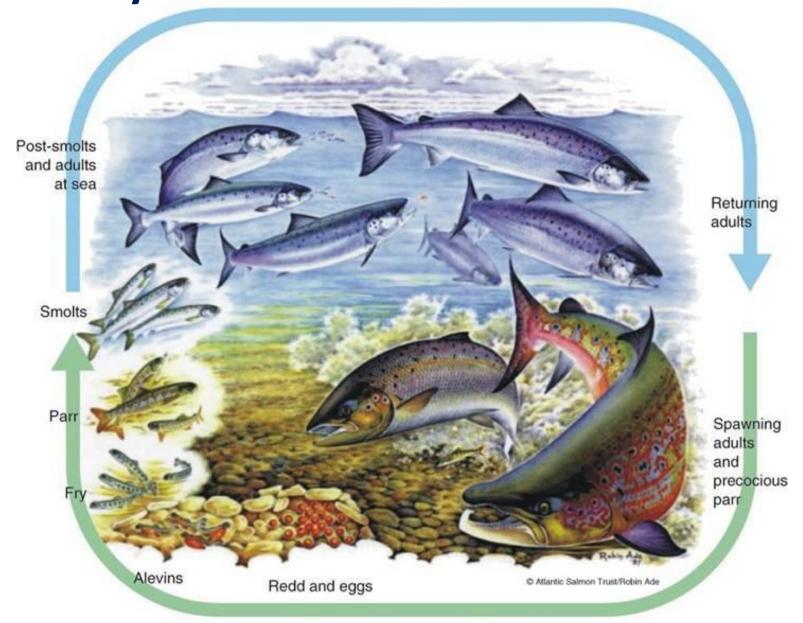






Salmon life cycle

SEA



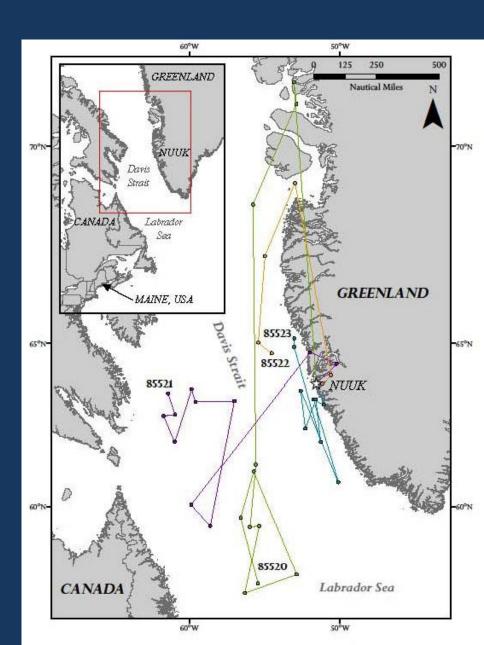
FRESHWATER

Salmon face many threats and challenges at sea . . .

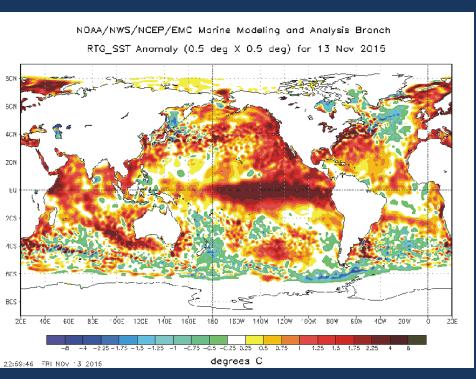
Coastal netting, Greenland

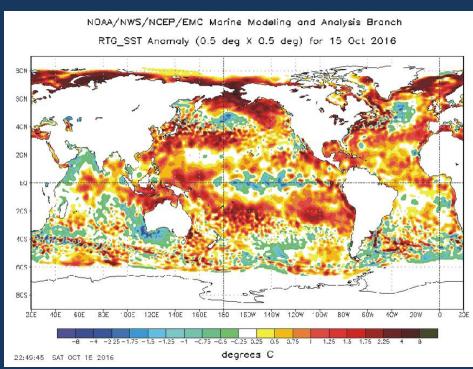






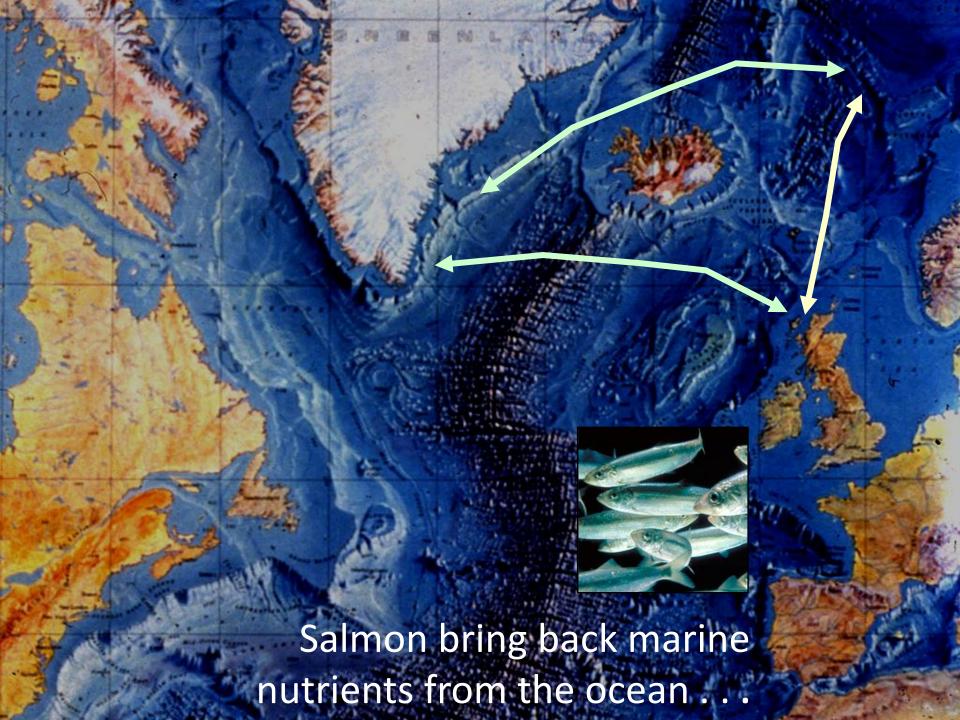
Changing sea temperatures . . .





Sea temperature anomalies: November 2015 & October 2016

Source http://www.climate4you.com/SeaTemperatures.htm





Juvenile fish surveys SEA (Supported primarily by **Wester Ross Area Salmon Fishery Board** & river proprietors) Post-smolts and adults at sea Returning adults Smolts Parr Spawning adults and precocious What limits parr juvenile salmon production in Alevins C Atlantic Salmon Trust/Robin Ade Redd and eggs Wester Ross?

FRESHWATER



Juvenile fish surveys

Aims

- To determine the distribution of wild juvenile salmon (trout and eels) focussing on marginal habitat
- 2. To assess the abundance of juvenile salmon.
- 3. To provide information about the status of respective populations and of any management intervention that may (or may not) be required.







Rivers where juvenile salmon have been recorded in WRFT area

To add:

Strath burn

Flowerdale Burn

Shieldaig river

Achmore river

Balmacara river

Nostie Burn



Rivers where juvenile fish surveys have been carried out in 2014, 2015 and 2016 (to date)









Grudie hydropower development







Little Gruinard invertebrate & juvenile salmon feeding study, 2014

by Geoffrey Billier



supported by Eilean Darach estate



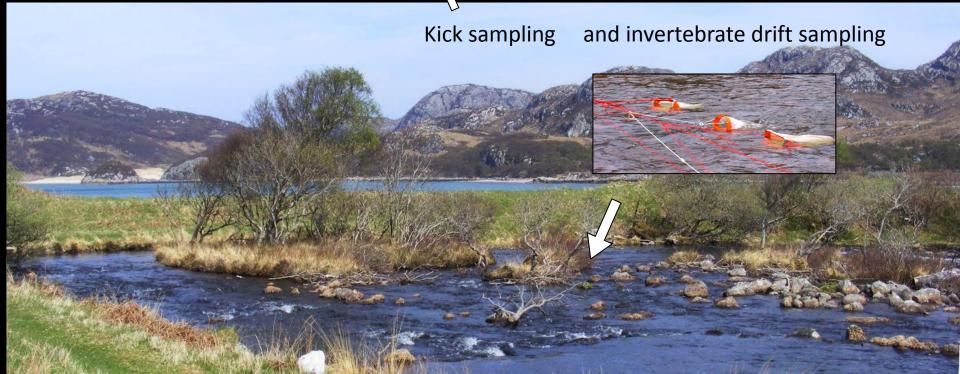
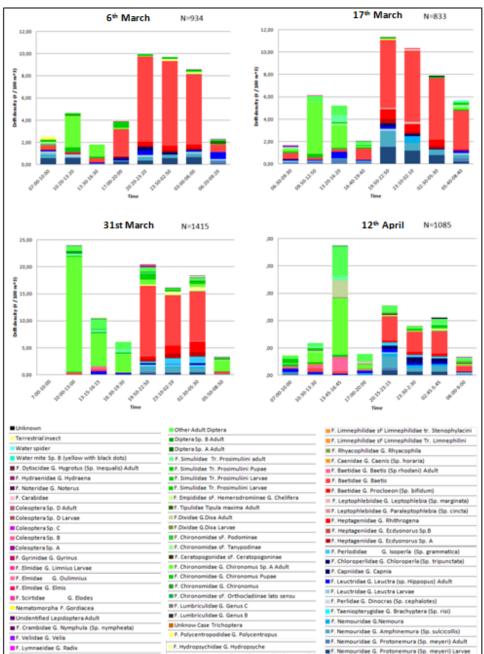


Figure 7.1 Drift <u>density</u> of the macroinvertebrate taxa in the Little Gruinard River (note differences in drift density scales)



F. Lepidostomatidae G. Lepidostoma (Sp. hirtumtaille)

F. Planorbidae

To learn about the diet of juvenile salmon, on 28th April samples of juvenile salmon were captured using electrofishing equipment on 28th April, killed in an esthetic, and their stomach contents were analysed. Six fry, 6 parr and 5 smolts were taken at 6am (for the night diet), and 5 fry, 6 parr and 4 smolts at 6pm (for the day diet).



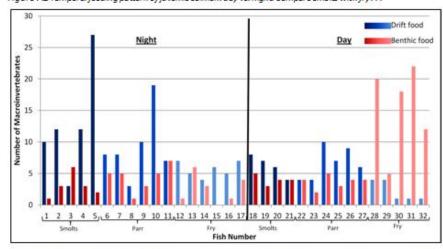
Diet composition for juvenile salmon was different according to the size of the fish and the day/night (Figure 7.2). Juvenile salmon were mainly selective both in terms of prey types and average prey sizes. Salmon smolts

were driftfeeders, eating mostly during the night. Large-sized prey types were usually being preferred by the smolts. Salmon parr fed a little more at night and mostly on drift invertebrates. Finally, salmon fry were benthic feeders, feeding mostly during the day.



Overall, this study provides a sound background for future work.

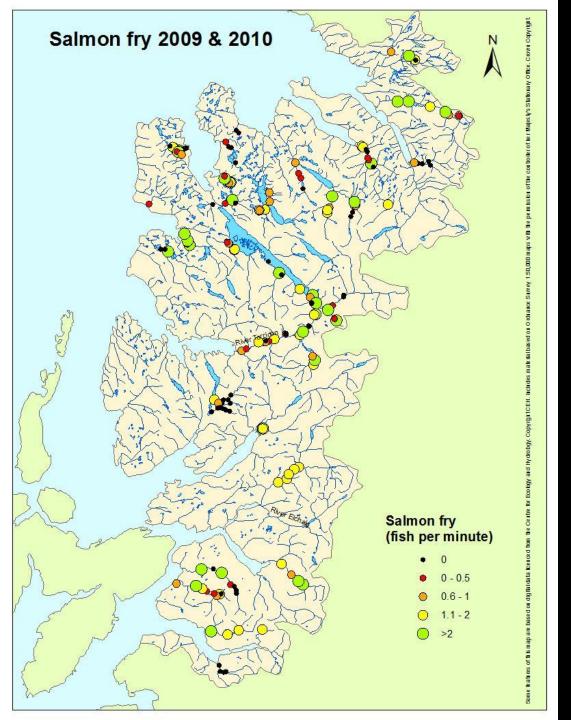
Figure 7.2 Temporal feeding pattern of juvenile salmon: day vs. night. Compare smalts with fry...



Thank you to <u>Ellean Darach</u> Estate for permission to carry out this study, and to Brian and Carol Fraser, Stuart Allison and Peter Jarosz for support. The study was designed partly to fulfil an obligation to SNH following receipt of a grant for new equipment.







Distribution and relative abundance of juvenile salmon







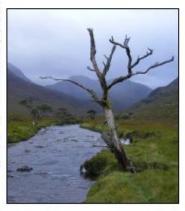


5.3.1 Abhiann Gleann na Muice

Butler (2001) discusses the need to protect riparian habitats. Since then, there has been much reappraisal of options and discussion both on and off the record particularly with regard to the Abhainn Gleann na Muice. These have focussed on two issues (1) the rate at which riparian habitat is degrading, and (2) the practicalities and potential costs of taking action to protect and restore riparian habitat (including concerns for passage of red deer within respective areas and access to grazing habitat).



En route to electro-fishing sites in 2207, 2010 and 2011 the WRFT biologist took note of the state of riparian habitats. Here are some pictures from section upstream from the confluence with the Abhainn Gleann na Muice Beag. All photos taken November 2011 by Ben Rushbrooke, except the dead tree (right), which taken on 23rd September 2009.











26

... a possible solution?

Figure 12. Proposed riparian habitat protection and restoration scheme for Abhainn Gleann na Muice.

This scheme ("Scheme A") proposes the establishment of a riparian enclosure to protect remaining alder trees and the soils they support, and to allow regeneration of trees along the Abhainn Gleann na Muice.

The existing riparian alder trees are slowly dying off, and there is virtually no regeneration above the confluence with the Abhainn Gleann na Muice Beaa. This is potentially one of the most important

The existing riporian algor trees are slowly dying aff, and there is virtually no regeneration above the confluence with the Abhainn Gleann na Muice Beag. This is potentially one of the most important headwater streams for production of early running 2SW salmon, arguably the most desirable salmon in the Gruinard River system.

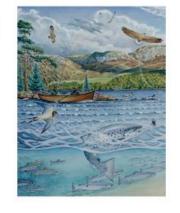
Water gate where river is widest at eann na island? Fence runs up to top of gorge by waterfall

TREES FOR FISH . .



Between June and September each year many thousands of adult salmon and sea trout return from the sea underneath the road bridge at Poolewe and swim up the River Ewe into Loch Maree where the fishery for sea trout was once world famous. By October, many fish have continued their journey back towards their natal streams, some heading up the Kinlochewe and A'Ghairbhe Rivers to Loch Clair and on into Loch Coulin.

This stream, known locally as the 'Farmhouse burn', is one of the most important spawning areas for sea trout, which lay their eggs in river gravels in late October or November. The eggs slowly develop during the cold winter months and little trout fry swim up from between the stones in April or early May in search of food.



To improve the habitat for fish, Coulin Estate with support from the Forestry Commission through the Woodland Grant Scheme (WGS) have established 2 enclosures to restore riparian (stream side) woodlands. This enclosure has been planted with alders, willows, birch, rowan and and other species.







Stonefly (2 tails) and mayfly larvae (3 tails) are food for juvenile trout (above) and salmon (below)





Native woodlands also provide habitat for many birds - including Stonechat, warblers and other small song birds. Look for dipper, grey and pied wagtails which also feed on insects along the stream.



Otter, and Blackthroated diver, which attempt to breed on several lochs in the area also benefit from healthy populations of trout and salmon.



By restoring more varied habitat, production of insects, earthworms and other small animals will increase. Leaf litter is also a food source for some of the aquatic insect larvae that are also important food items for young fish.

Tree roots, especially those of alder, help to stabilise river banks preventing erosion. Roots also provide additional cover (protection) for small fish, which can hide from larger fish and other predators.







Coulin Estate is committed to the restoration of healthy and productive fisheries for wild sea trout, salmon and other special wildlife. If you meet the keeper, ask him about some of the other projects on the estate.

Wester Ross Fisheries Trust, 2004 tel: 01445 712 899 info@wrft.org.uk

Refertilising Wester Ross, April 2016







With in-kind support from:

















Phosphorus budget

P imports



Anthropogenic

(food, fertiliser, detergents, etc.)



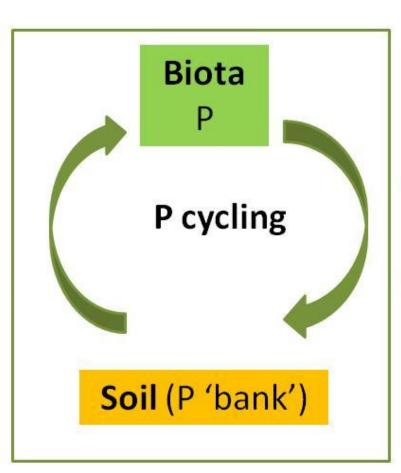
Physical and chemical

(atmospheric deposition, rock erosion)



Biological (wild)

(wild plant and animal materials)



Ecosystem

P exports



Anthropogenic

(livestock, crops, timber, effluents, etc.)



Physical and chemical

(erosion and leaching)



Biological (wild)

(wild plant and animal materials)



In the past, many more salmon returned to Scottish rivers from the sea each year.

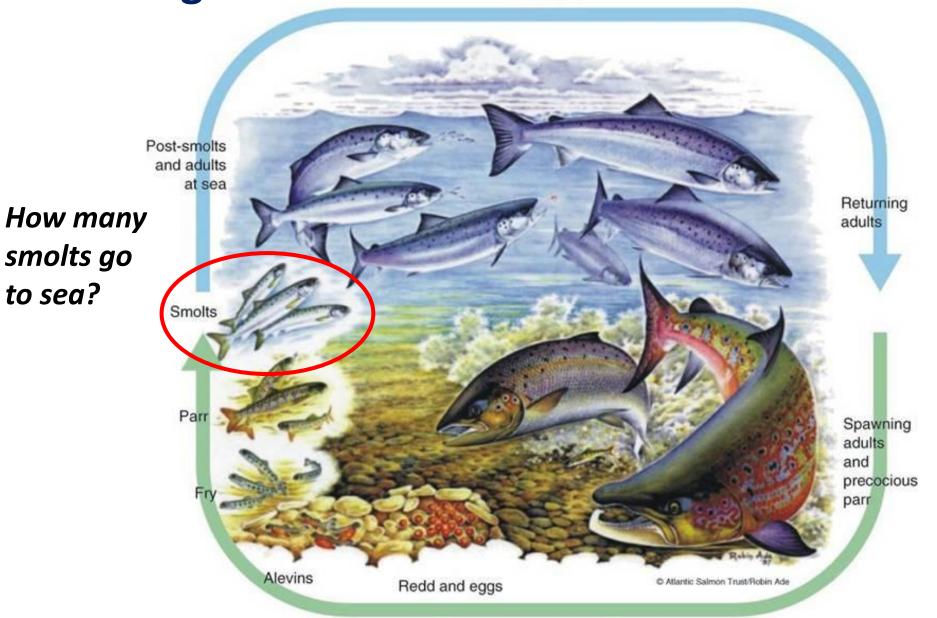
How much marine nutrient was transferred to terrestrial ecosystems in Scotland in the past?

Smolt migration

smolts go

to sea?

SEA



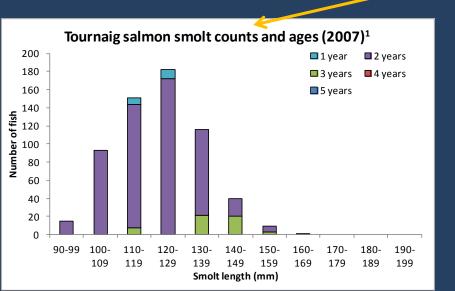
FRESHWATER



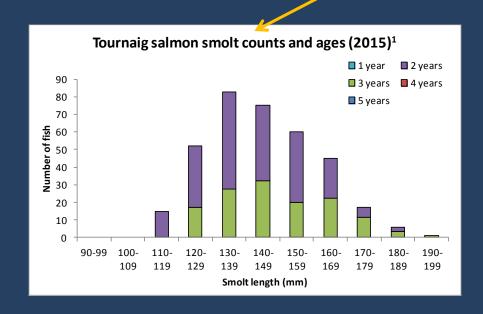
Ben Rushbrooke transferring smolts from downstream trap

The number of smolts and their sizes varied at Tournaig from year to year . . .



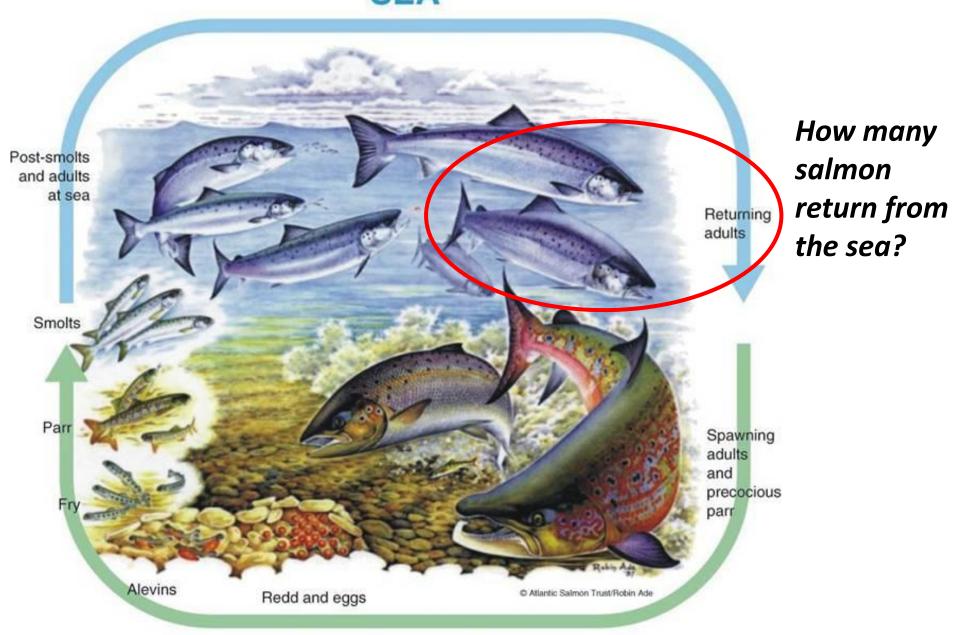


Tournaig trap - smolts descending ■ Sea trout Number of fish ■ Salmon



Year

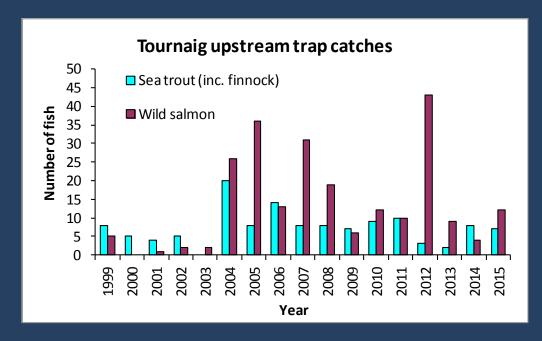
SEA Returning adult salmon





Tournaig trap upstream catches





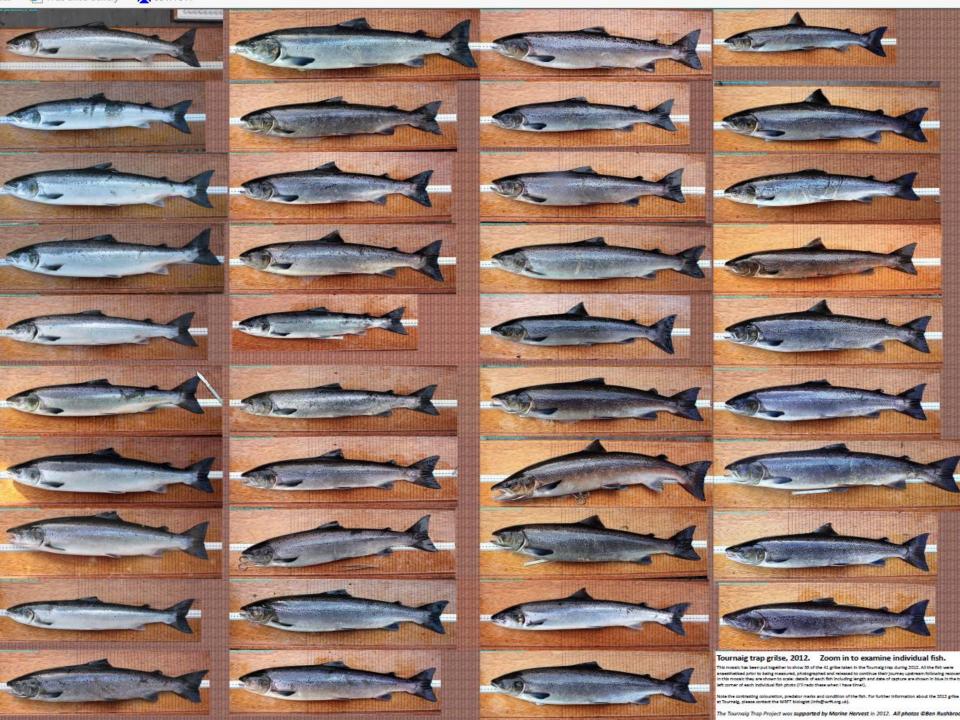
(left) Ben with a grilse, 6th August 2016 . . .



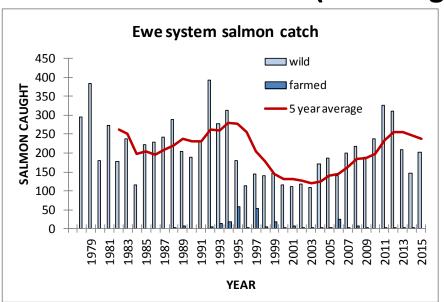


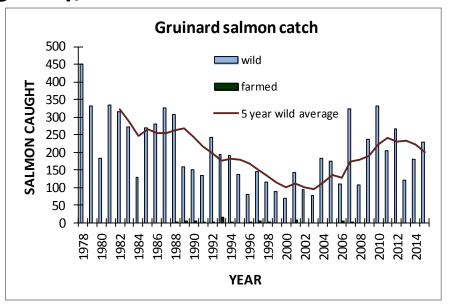


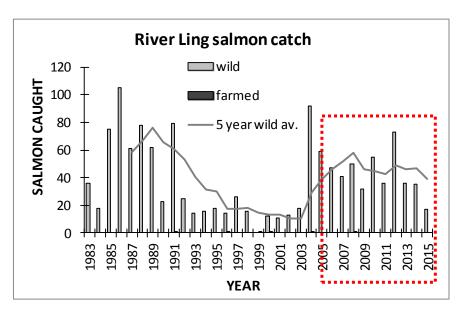


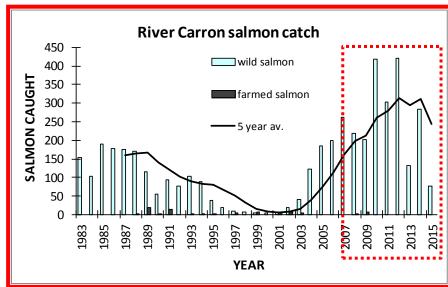


Rod catches of salmon (including grilse), Wester Ross FT area









Break: any questions?



Male salmon in Kinlochewe River, November 2014 (Andy Jackson)

Brown trout Salmo trutta

Sea trout and brown trout

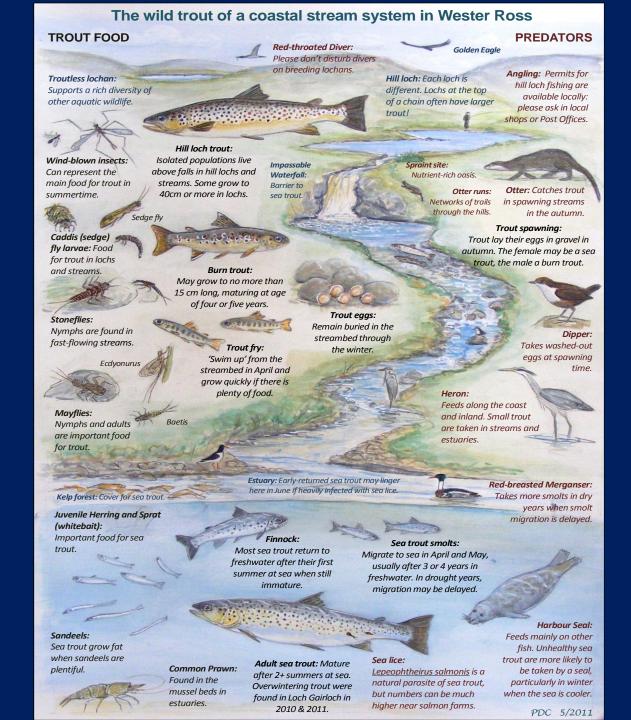


Wild trout diversity in Wester Ross

Loch trout

Burn Trout

Sea trout



Garbhaig falls . . .







Made in England

570 580 590 800 610 820 830 840 650 660 G7D 880 690 700 710 720 730 740 750 760 77D 780 760 820 830 840 850 860 87D 380 890 900 910 920 830 840 950 960 979 98



age in England







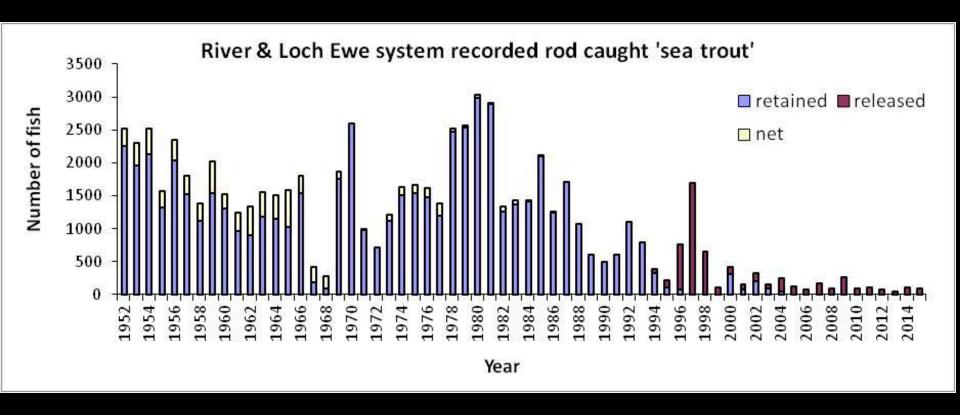








The Loch Maree sea trout fishery collapsed in the 1990s

















Flowerdale 1st September 2016



Flowerdale, Loch Gairloch 20 September 2016 21 sea trout. Max. 35 lice per fish, mostly <10 lice per fish

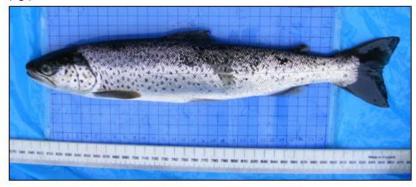




Growth of 'Squaretail', a male sea trout caught 5 times by the WRFT sweep netting team in Loch Gairloch, from March 2011 to September 2012

The following pictures are of a wild sea trout that was caught five times with the WRFT sweep net in Loch Gairloch. Each time the fish was caught, it was anaesthetised, a scale sample was taken, a photograph was taken, and the fish was returned to the water following recovery. The fish has been recognised by its spot pattern. When first caught in April 2011, the fish had a damaged pectoral fin and other predator damage ('beak' mark), and dorsal fin damage associated with earlier sea lice infection. The trout survived for at least another 16 months following its initial capture, growing from less than 1lb (455g) in weight to over 3lb (1365g) during this period. The fish suffered further predator damage to its tail between September 2011 and April 2012. Note the changes in colouration from silvery during the spring and early summer to bronze (spawning colouration) by September in both years.

18 Mar 2011: 355mm, 380g; deformed right pectoral fin; note scale loss attributed to beak damage. Lepeophtheirus solmonis lice counts: 3 copeopdid & chalimus, 5 creadult & adult, 3 cyigerous female; dorsal fin slightly eroded. The scale reading suggests that the trouthad already spawned twice (see last page).



27 Sept 2011: 455mm, 933g; Lepeophtheirus salmonis 0 c&c, 2 pa&a, 0 of.



11 Apr 2012: 465mm, 948g; Lepeophtheirus salmonis 2 c&c, 0 pa&a, 0 of



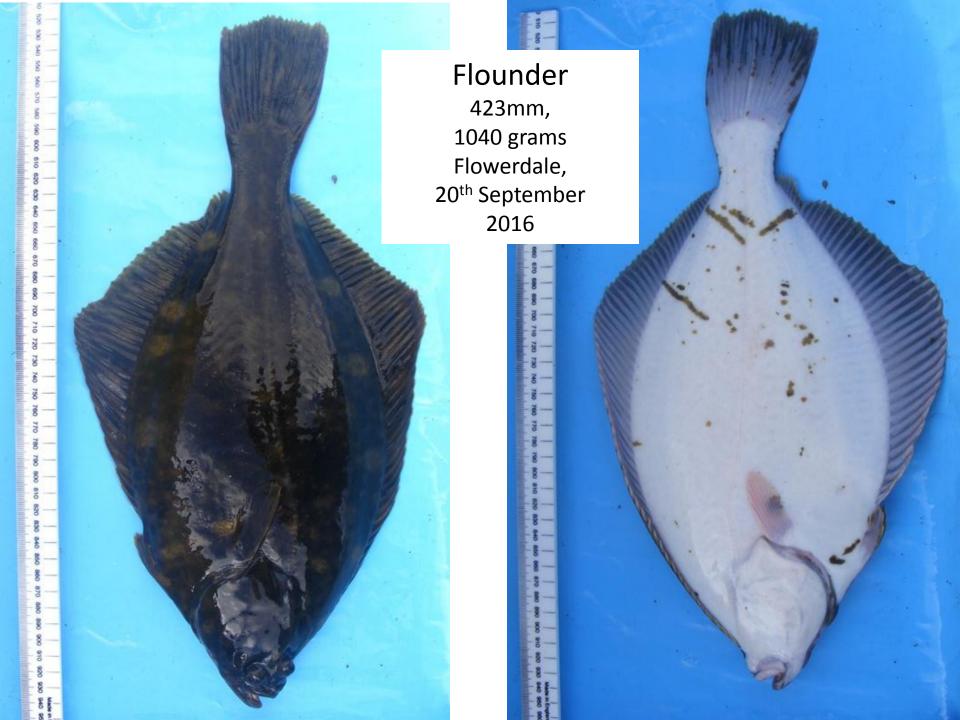
22 June 2012: 487mm, 1154g; Lepeophtheirus salmonis 10c&c, 3 pa&a, 4 of; 4 Caligus



17 Sept 2012: 520mm, 1512g; Lepeophtheirus salmonis 0 c&c, 4 pa&a, 6 of.







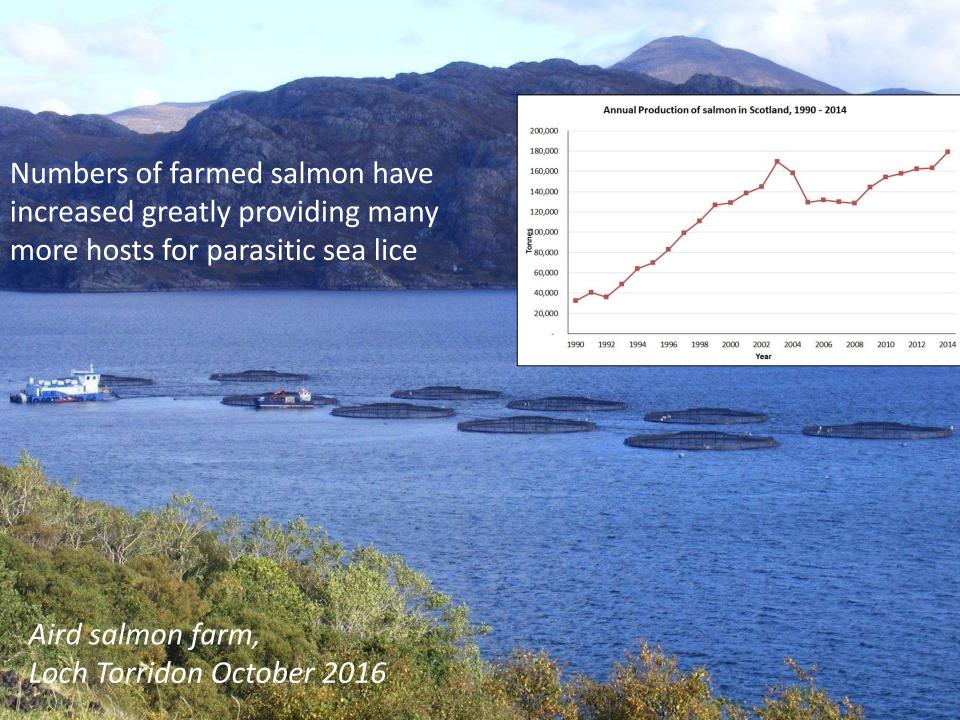
Torridon estuary, 2nd June 2016

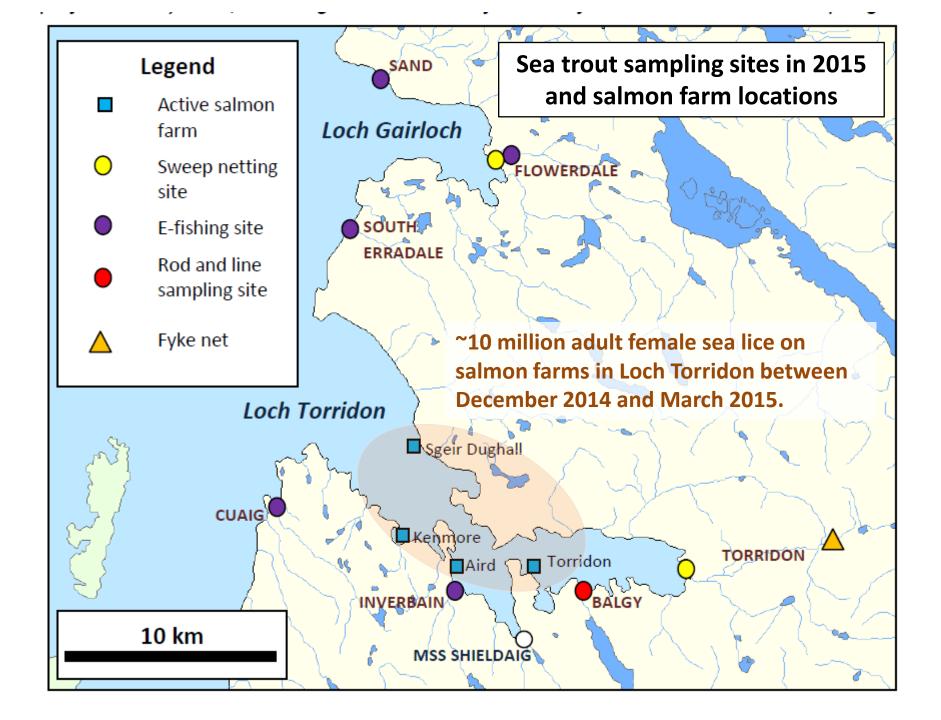




Glenmore River, Glenelg 29th June 2016





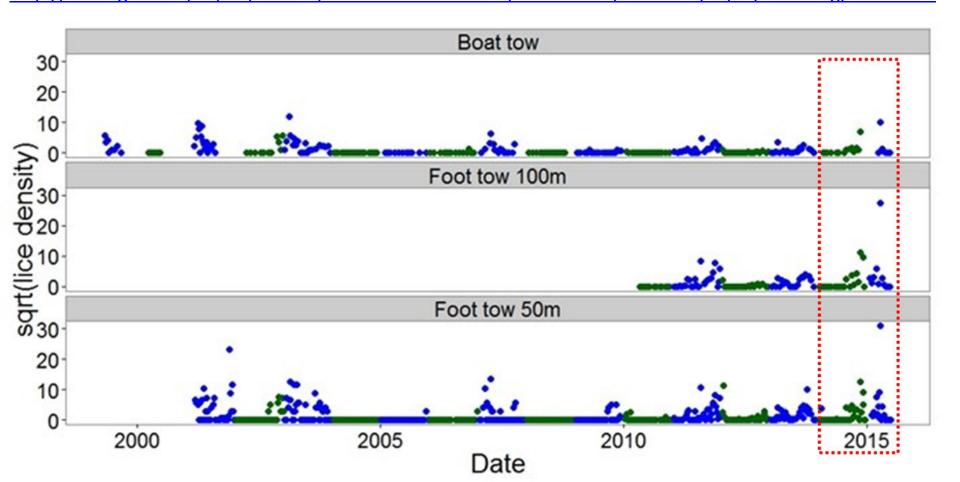


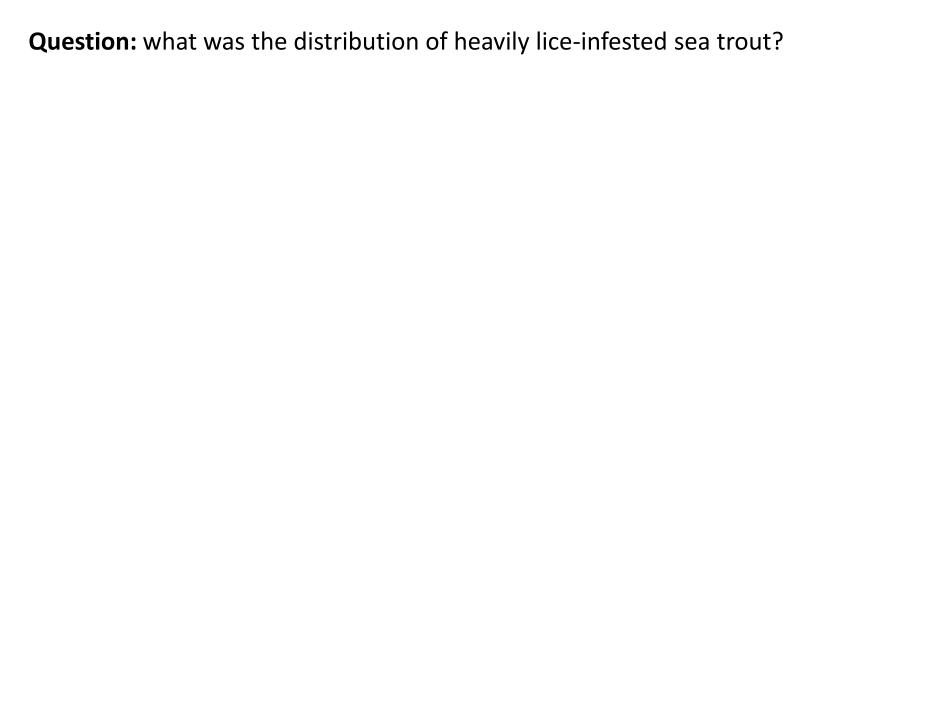
Density of sea lice (square root transformed) measuring by plankton tows in Loch Shieldaig 1999-2015 (Marine Scotland Science data).

Green points are those in the first year of production, blue are in the second year.

The period January 2014 – June 2015 is indicated by the box outlined in red which has been added to the published graph.

This graph has been reproduced from the Scottish Government's MSS Shieldaig Project website. http://www.gov.scot/Topics/marine/Salmon-Trout-Coarse/Freshwater/Research/Agint/Shieldaig/LiceLevels





Question: what was the distribution of heavily lice-infested sea trout?



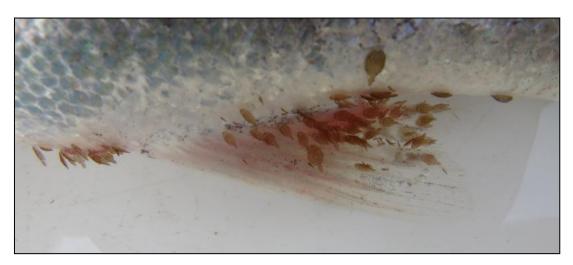
Sweep netting for sea trout **Loch Gairloch**, 19th May 2015





Loch Gairloch Sea trout, 19th May 2015: approximately 500 lice . . .



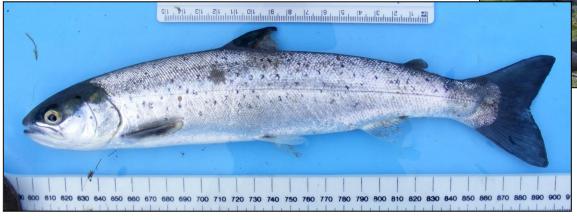




River Balgy sea pool, **Loch Torridon** Rod and line sample, 25th May 2015

Total catch **8 sea trout**, av. condition 0.76 **sea lice counts per fish**: 0, 0, 0, 0, 0, 0, 26, 475+ respectively.

Sea trout 295mm with at least 475+ lice.







River Balgy sea pool, Loch Torridon. Rod and line sample, 25th June 2015

Six sea trout. Average condition factor 1.00 (i.e. the fish are fatter than on 25th May). Sea lice counts per fish: 20, 74, 80, 43, 43, 175. Three fish have damaged dorsal fins.





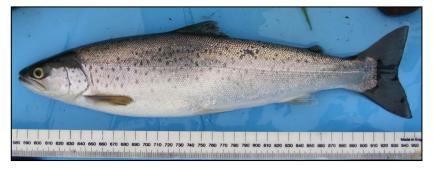


Sweep net sample, **Loch Ewe**, 4th June 2015

(~55km from nearest Torridon salmon farm)

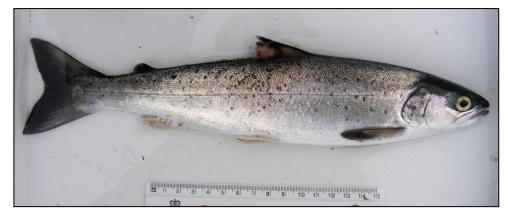
Total catch: 41 sea trout including 36 postsmolts (<250mm) mostly with <5 lice per fish

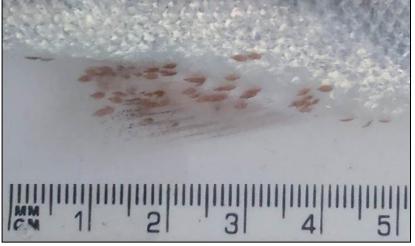
This 362mm sea trout with just 10 lice





... and also a 295mm sea trout with 412 lice.





Loch Gairloch, 6th July 2015.

Electro-fishing sample from sea pool of Flowerdale river.

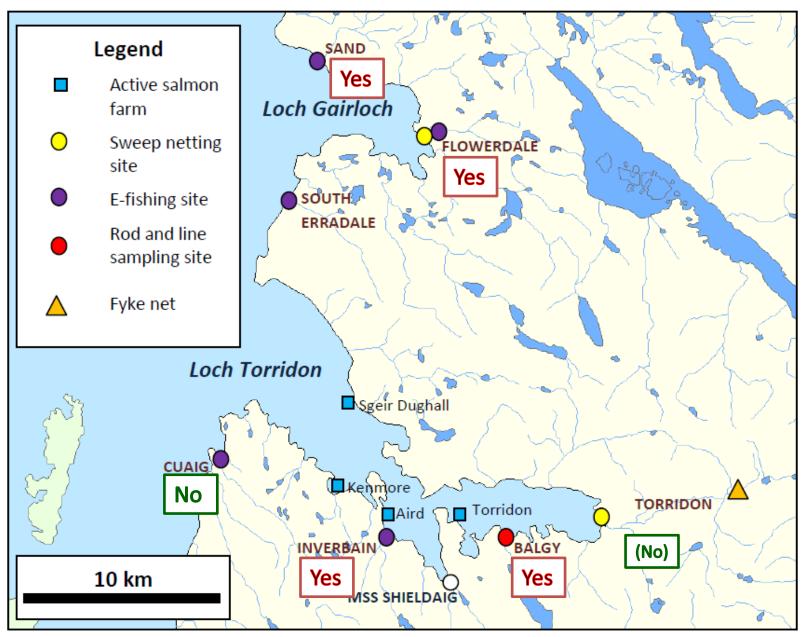
6 sea trout, sea lice counts per fish: 52, 81, 16, 54, 85, 81, 2



Sea trout of 279mm 81 lice on it and a freshly damaged dorsal fin associated with sea louse infestation (photo by Andy Vicks)



Did samples include sea trout with '100% expected mortality' 1 fish?



¹ (sea trout with >0.3 lice/fish weight, g) Taranger, et al. 2015

No evidence of many sea lice infested sea trout in the north of WRFT area in 2015 & 2016; local salmon farms had low sea lice counts.



Question 2: what was the impact of the sea lice infestation on sea trout populations?

Question 2: what was the impact of the sea lice infestation on sea trout populations?

Three maturing female sea trout taken in the South Erradale burn on 20th August 2015 by the WRFT e-fishing team. The largest fish was 350mm in length and 495g in weight. (no lice)

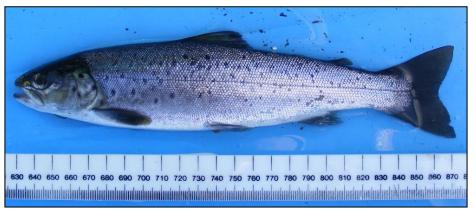


This dorsal fin has been louse-damaged, but is healing

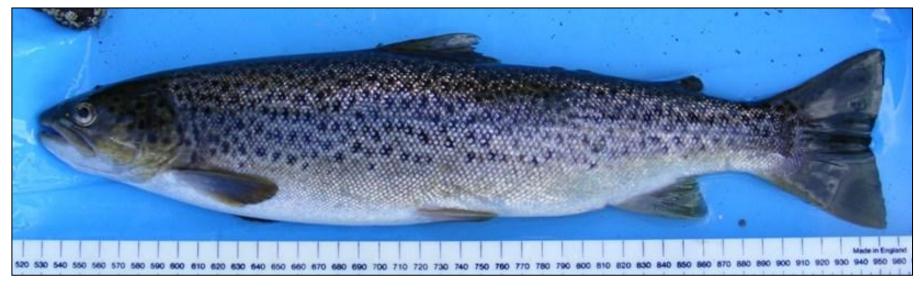


Loch Gairloch, 1st October 2015.

23 sea trout 214mm to 432 mm; >6 lice / fish Including mature female sea trout of 432mm

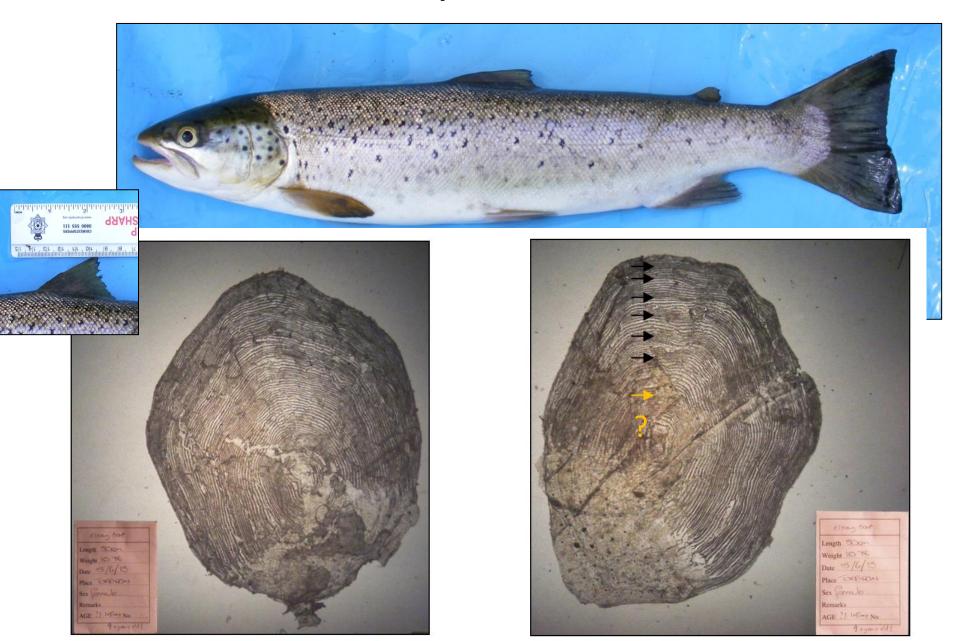






Torridon estuary sweep netting, 15th June 2015

... just one sea trout, 500mm, no sea lice.



River Torridon fyke net, set in spawning burn from 13 Oct to 9th Nov



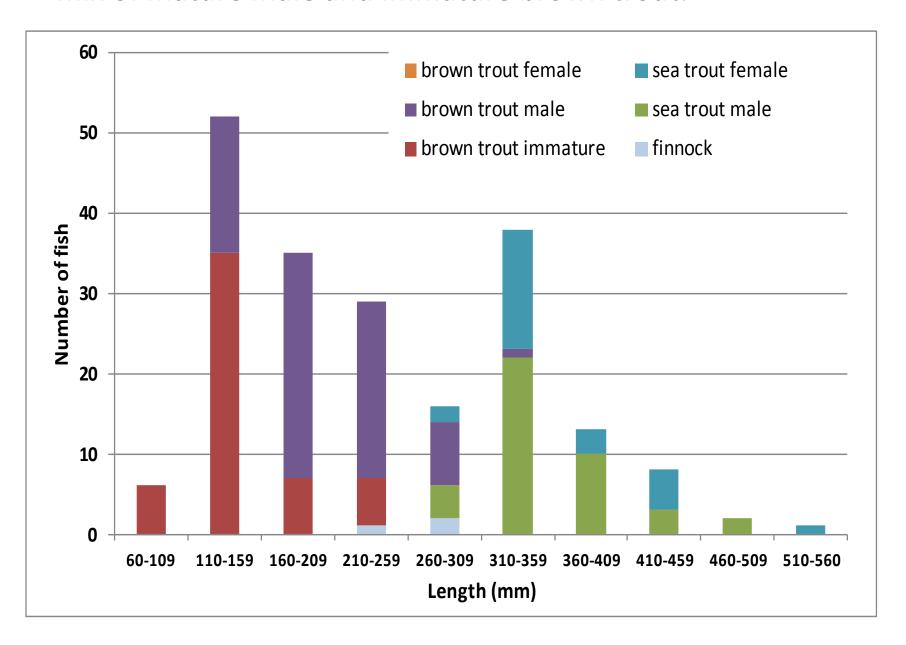
There were 76 'captures' of sea trout in the fyke net . . .

Male and female sea trout from fyke net, 28th October 2015



0 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960

... out of a total of 211 trout captures; the others were a mix of mature male and immature brown trout.

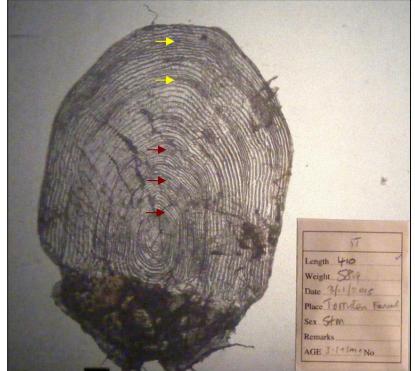


Torridon fyke net 3rd Nov.

(top) 5 year old male sea trout of 410mm (scale bottom right)

(below) 10 year old male brown trout of 352mm







Mature male trout (running milt) Torridon fyke net 3rd November 2015 The top fish is a sea trout, the other three, brown trout.

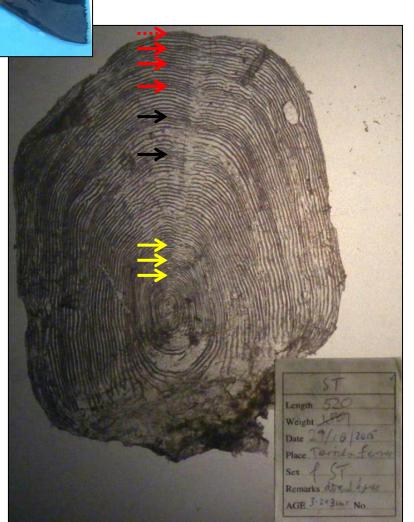


Female sea trout, 520mm Torridon fyke net 29th October 2015

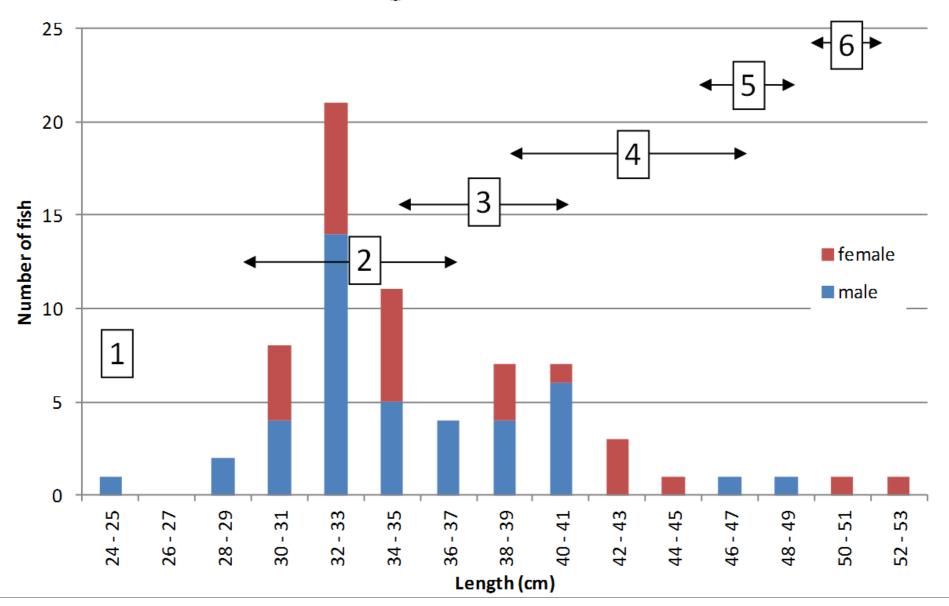


Age 8+ years
at least three spawning marks
6 summers at sea
three years in freshwater





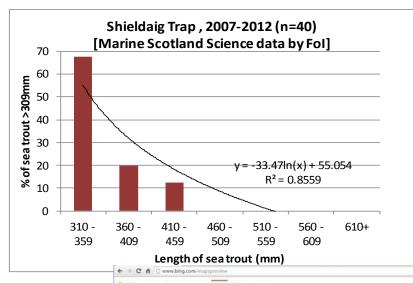
Sea ages of sea trout

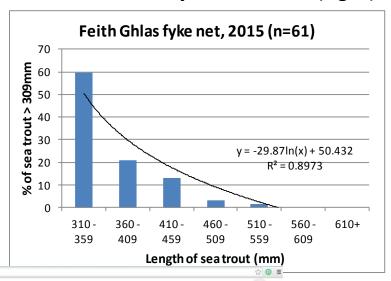


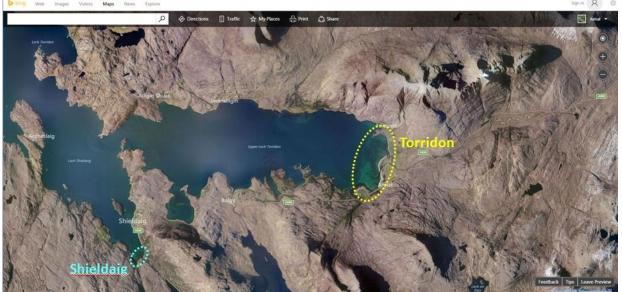
Occurrence of larger sea trout in Loch Torridon

Relative % of sea trout of >310mm in samples from the

MS Shieldaig trap, 2007 to 2012 (left) . . . and WRFT Torridon fyke net, 2015 (right).

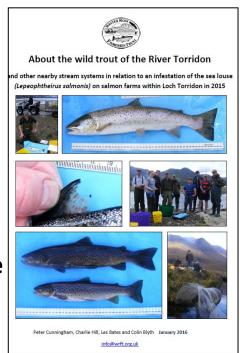






Some conclusions:

- •Despite high sea louse infection pressures associated with nearby salmon farms and high lice counts on some fish in some samples, sea trout were able to survive to maturity in some situations.
- •In the Torridon river system, trout egg deposition is still dominated by sea trout despite close proximity to salmon farms.
- Longer survival of some River Torridon sea trout may be due to more favourable local geography and hydrology with fresh & brackish water options for evading infective lice and seal predation.
- •However, in other situations (e.g. nearby Shieldaig River system) lice infested sea trout are evidently more vulnerable?



Some problems for Sea trout in and around Wester Ross



Adapted from presentation given at Sea trout and Sea lice Management workshop, Aultbea, 20th February 2014



Peter Cunningham info@wrft.org.uk

with support from



3oard

WRFT Sea Trout Monitoring Report for 2012

On the occurrence of larger sea trout in Wester Ross









report by Peter Cunningham, March 2013 Wester Ross Fisheries Trust, Harbour Centre, Gairloch, Ross-shire, IV21 2BQ Tel: 01445 712899 Email: <u>info@wrft.org.uk</u>

Sea lice monitoring

The sea louse, Lepeophtheirus salmonis is a natural parasite of salmon and sea trout. The natural host - parasite ecology of sea trout with the sea louse Lepeopheirus salmonis is finely balanced. Even prior to the onset of salmon farming, sea trout with 10 or more attached lice were commonly seen around the coasts. However, from the late 1980s much higher levels of lice infestation were found on sea trout, especially closest to fish farming areas. Sea lice epizootics remain one of the biggest problems for sea trout fisheries in Wester Poss





veep netting for sea trout at Kildonan Bay, Little Loch

During years when there are sea lice epizootics, many 'early returned' sea trout ranging in size from post-smolts of less than 25cm to fish which have spent one or more summers at sea previously are recorded. Older sea trout of more than 45cm have rarely been taken in recent years.

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Similar monitoring is carried out by scientists working for Fisheries Research Services in Loch Torridon. In 2008, the sea lice monitoring programme will be extended to include a series of sweep nettings in sea lochs throughout the WRFT area. This work is to be funded by the Scottish Government, via the Tripartite Working Group.

Related Downloads

To download a file, right-click over it's name and choose Save Link/Target As...

Costello, Scotland 2014: The problem for sea lice on salmonids: wild and farmed

Presentation given by Prof Mark Costello at the sea lice and sea trout management worskhop at Aultbea Village Hall, supported by WRFT and the Atlantic Salmon Trust, on 20th February 2014. The talk summarise knoweldge of louse biology, transmission to hosts, methods of control and the persistance of the problem. There is also a section at the end about Marine Reserves in New Zealand.

Prosted: 24/02/2014 (10.88MB)

Dundonnell fyke net sea trout sea lice results 2008

Spreadsheed with details of lice counts on sea trout taken in the Dundonnell fyke net in June and July 2008, operated by Eilean Darach Estate and Dundonnell Estate. many thanks to respective estates for permissions to post these results.

Posted: 10/09/2008 (74/8)

Estuarine trout, Kerry Bay 7 June 2010

This trout, the largest taken in the sea by the WRFT sea lice monitoring team, was taken in the sweep net; and the file shows photographs of scales from which the age has been assessed. III Posted: 07/06/2010 (508KB)

Loch Torridon Sea trout report 201

This report presents some of the results of investigations to gather information about sea trout around the Loch Torridon area in 2015 following reports of exceptionally high concentrations of parasitic sea lice (Lepeophtheirus salmonis) on salmon farms within the area during the first six months of 2015. Sea trout were sampled by Wester Ross Fisheries Trust during the period May-July 2015 using sweep netting, rod and line and electro-fishing. In October and early November 2015 a fyke net trap was operated in a tributary of the River Torridon to learn more about the spawning population of trout within that river system.

Problems for Sea trout in Wester Ross

This presentation has been tidied up from one given at the sea trout and sea lice management workshop at Aultbea Village hall on 20th February 2014. Data for sea lice and other factors affecting sea trout in Wester Ross are summarised. The presentation concludes with an outline for a Scottish Sea Trout Project aimed at improving our understanding of how different factors affect sea trout in different parts of Scotland. @ Posted: 21/02/2014 (6.57/NB)

WRFT sea lice monitoring Report 2007 - 20

Following a review of sea lice biology and ecology and past studies from a local context, this report presents the results of sea lice monitoring or wild sea trout in the WRFT area in 2007 and 2008 and considers associations with salmon farming.

Posted: 19/11/2009 (2.29MB)

WRFT Sea trout monitoring report 2009 - spring 2011

Sea trout sampling in Wester Ross from 2009 to spring 2011. Includes results of sweep net sampling and links to scale reading catalogue.

Bosted: 11/04/2011 (1.95MB)

WRFT Sea trout Monitoring review 2012

This report presents the results of sea trout and sea lice monitoring in 2012 within the WRFT area, and considers the occurrence of larger sea trout in Wester Ross and other parts of the West of Scotland. Ill Posted: 12/04/2013 (6.05MB)

WRFT Wild Trout Monitoring Report for 2011

This report presents the results of sea lice monitoring of sea trout in the sea around Wester Roiss and trout sampling in freshwater in 2011.

Posted: 17/04/2012 (8.90MB)

Activities

■ Juvenile fish surveys

Habitat surveys

■ Sea lice monitoring

Fisheries Management

Latest News

■ Skye and Wester Ross Fi Trust Open Day (25/08/

■ WRFT Review May 2016 (19/05/16)

■ Meeting Postponed: Skye
Ross Fisheries Trust Ope

■ Refertilising Wester Ross 9th April, 2016 (09/03/

News Archive

(12/05/16)

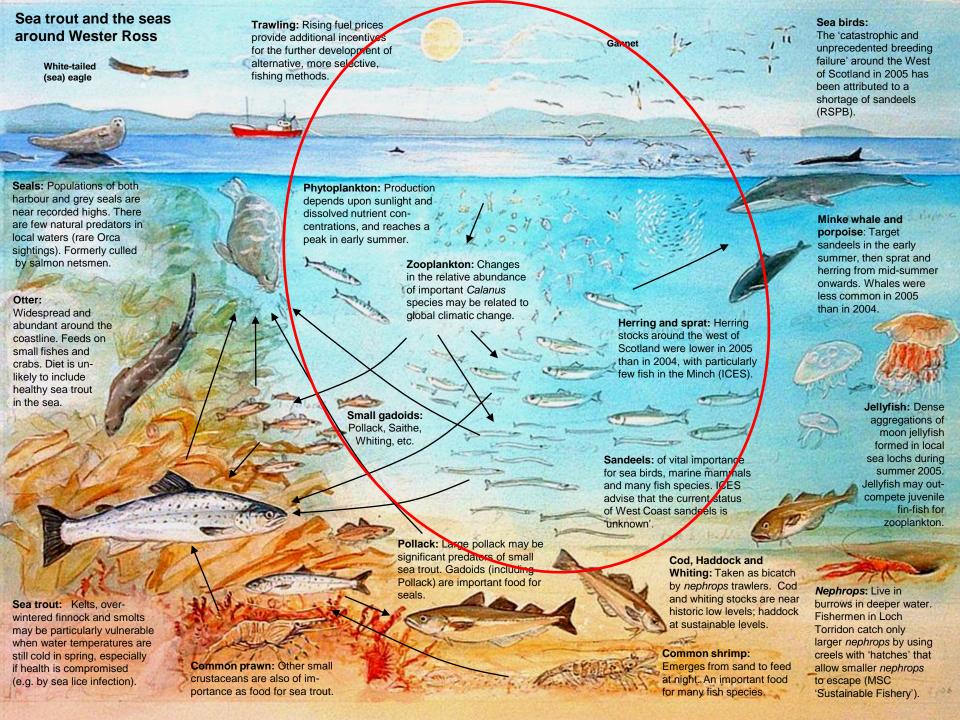
Jan-Mar 2016 (3)

■ Oct-Dec 2015 (2)

■ Jul-Sep 2015 (2)

Apr-Jun 2015 (2)

■ Older (135)



Sea trout condition . . .

2009: a remarkably 'fat' sea trout of 380mm, 800g (condition factor 1.46) taken in the sweep net at Boor Bay on 15th July 2009 (photo Ben Rushbrooke)



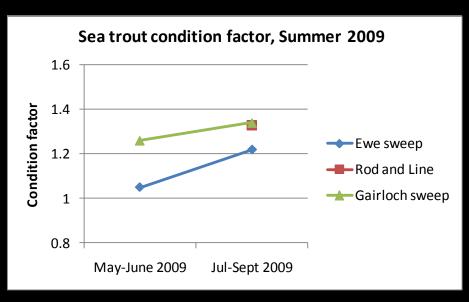
Sandeel 'glut', Gairloch, early July 2009

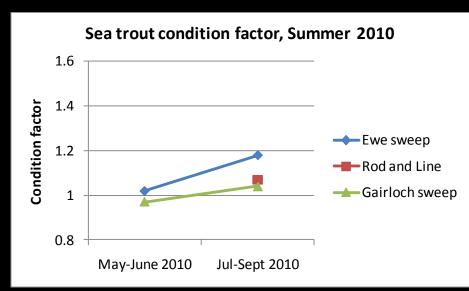


The sea trout we caught in 2009 were fatter than in 2010 & 2011

2009

2010









Sea trout from Kerry Bay, Loch Gairloch, 29th June 2009.

Sea trout from Flowerdale Bay, Loch Gairloch, 29th June 2010



Herring







Faculty of Earth and Life Science, VU University Amsterdam

The fish that did not get away -

Tales from Herring fishers about the decline of the Wester Ross herring fishery



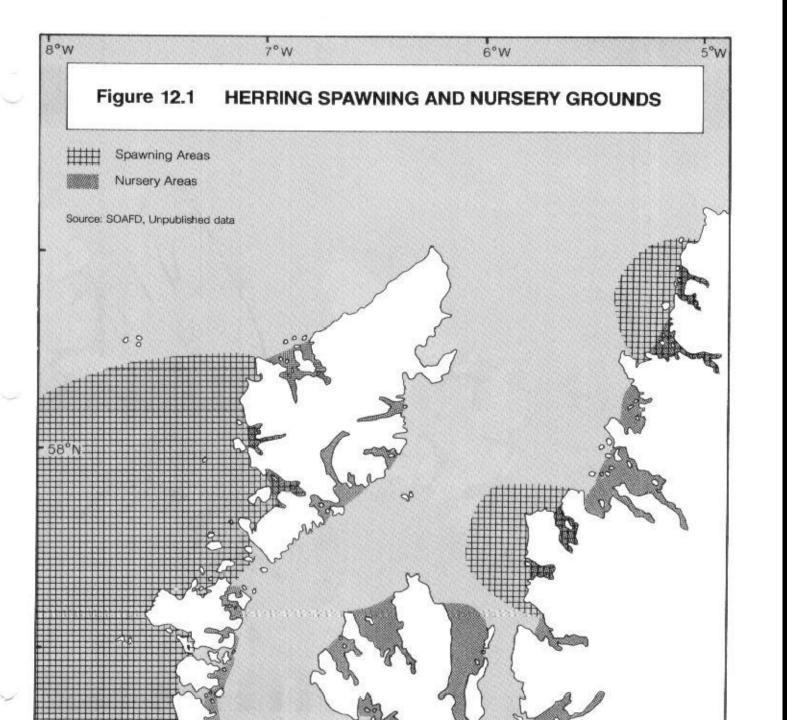
Student: Ruby Neervoort, Student number: 1898558 28-06-2013

Supervisors:

Dr. Alison Gilbert- First supervisor Dr. Clive Fox- external supervisor Dr. Bert van Hattum - second assessor

468017 ERM Research Project (18 ec)

Word count: 10375



Places where fishermen say Minch herring spawn(ed) on 'coral' in March













(map from Celtic Fringe magazine.)

Herring in spawning condition, from Loch Ewe, January 2010





Wester Ross Marine Wildlife

This poster aims to encourage more people to take an active interest in looking after our wonderful coastal seas. Wildlife habitats range from sheltered sea lochs to rocky headlands exposed to arctic storms. Many of the North Atlantic's most

remarkable animals can be seen here, sometimes close to land. Come and explore: bring a drysuit or warm wetsuit and snorkel, a sea kayak; or book a boat trip. Take care: the seas can be dangerous. Paddle lightly; enjoy!

Scottish Natural Heritage

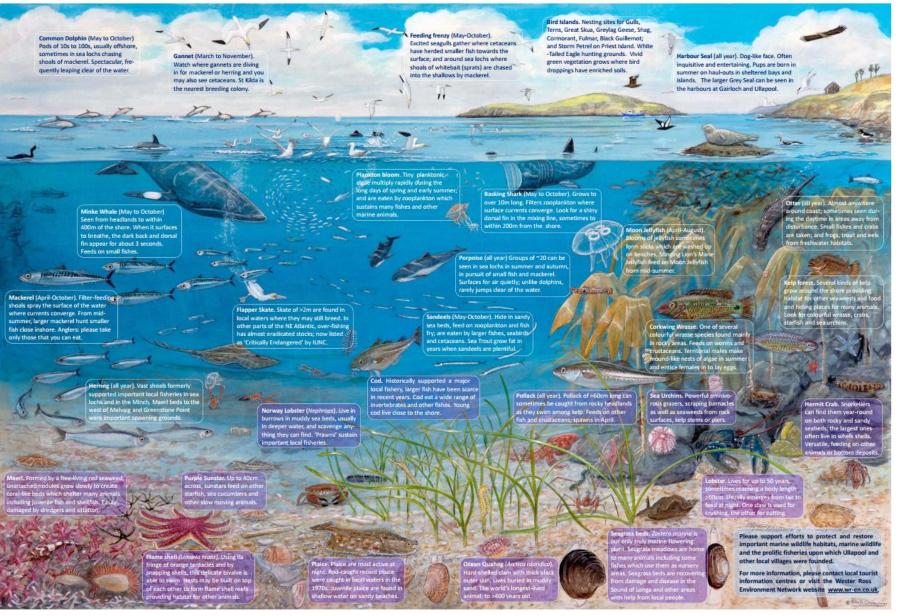
Scottish Natural Heritage

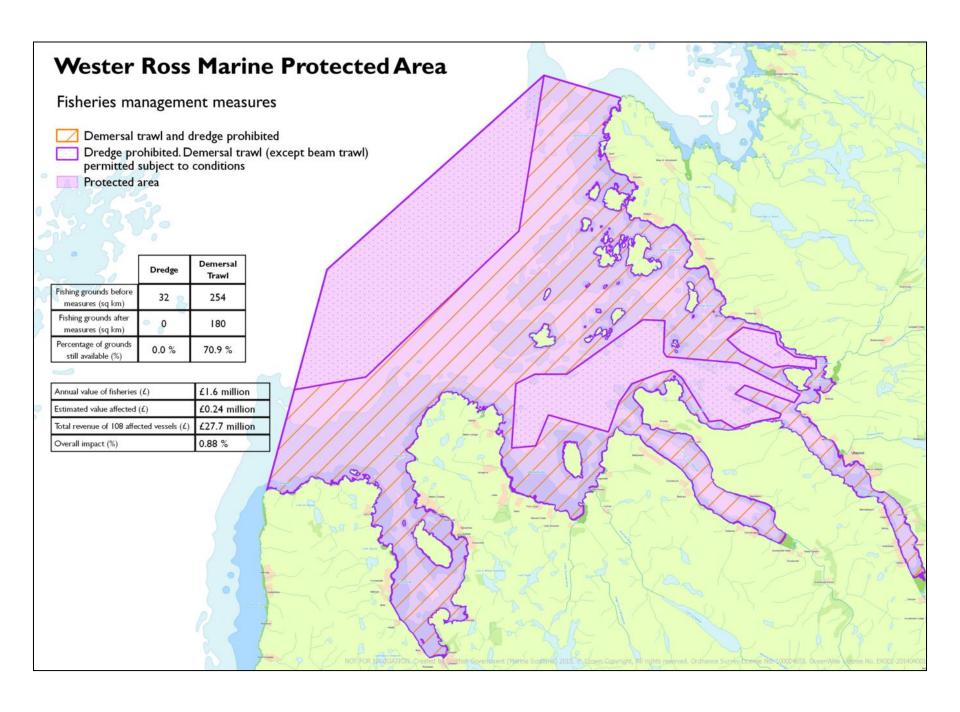
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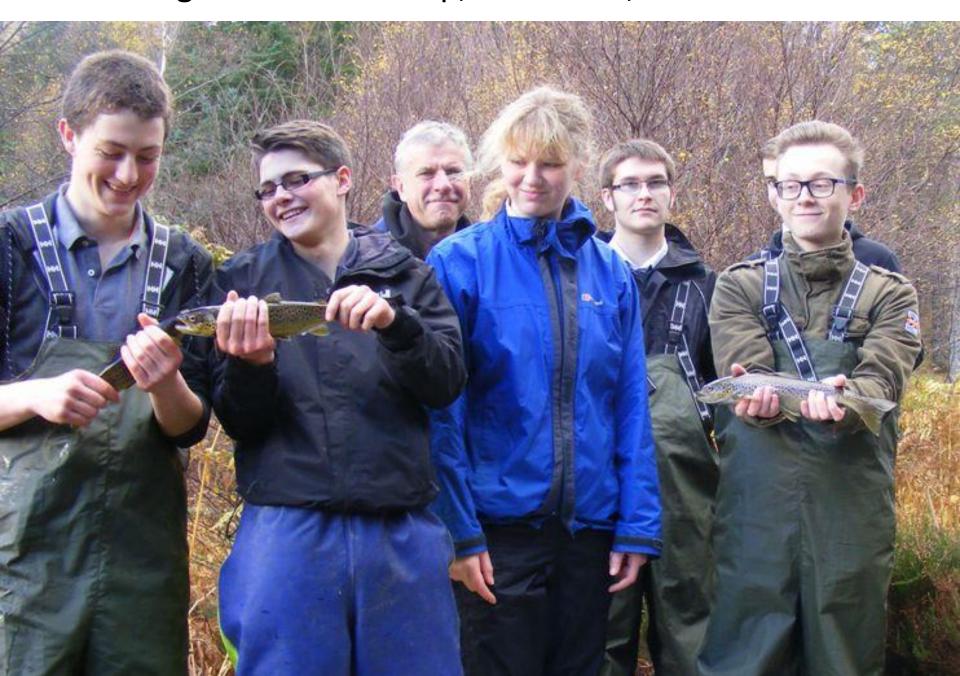




Ullapool Sea Angling competition 20th August 2016



Gairloch High School field trip, Slattadale, November 2016



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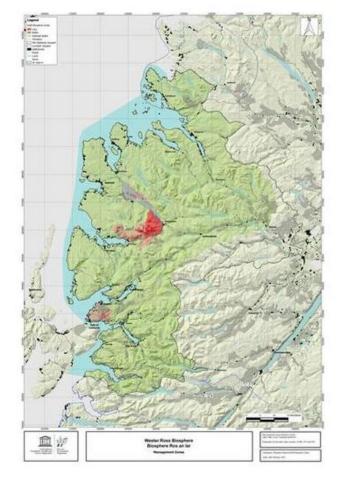
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Is there a need to designate some 'special' sea trout systems in Scotland?

For help and support over the past 12 months, thank you to

Christian Gudgeon, Ian MacFadyen, Aaron Matheson, Ben Bulmer, Matt Zeitz, Alan McGillivray, Donald Rice, Alasdair and Sophie Macdonald and friends, Mike Stanners, Brian Fraser, Ian Allison, Stuart Allison, Sue Pomeroy, Bill Whyte, Ben Rushbrooke, Gary Bulmer, John Mackenzie, Duncan MacKenzie, Hugh Whittle and family, Ray Dingwall, Peter Jarosz, Prof Peter Maguire, Fraser Wilson (MI Cables), Fred Robertson, Mark Williams and family and friends, Prof Barry Blake, Prof Dave Barclay, Ala MacKenzie, Derek Roxburgh, Terry Jack, Norman Thomas, Alastair Pearson, Bill Anderson, Fraser Anderson, Terry Jack, John Weir, Doug Bartholomew, SNH Beinn Eighe NNR volunteers, Dr John Ogle family and friends, Frank Kalinowski, Pat Wilson and family, Philip Smith, Neil Morrison, Simon Stewart, Jim Raffell, Les Bates, Colin Blythe, Charlie Hill, Dr Andy Walker, Sue Pomeroy, Dr Steve Kett, Dr Andy Vicks, Vu Dang, Middlesex Uni Students, Ben Rushbrooke, David & Veronica Mullaney, Callum Sinclair, Chris Horrill, SNH Beinn Eighe NNR volunteers, Mark MacKenzie (Kaenchullish Estate, Achiltibuie A.C members, Alastair MacDonald (Dundonnell Estate), Colin Simpson, Nigel Carr, Gary Bulmer, Fred Robertson, Mark Williams and family, Jim Buchanan, Dr James Close, Bill Anderson, Jeremy Fenton, Lennie Campbell, Drew Davies, Mary Gibson, Cameron Thomas, Dr James Merryweather, David Holland, Nick Sanders (Glenelg AC), SNH Beinn Eighe NNR volunteers, Michael Aitchinson, Kathy P. Jones, Noel Hawkins, Sarah Nason, Keith Dunbar, Iain Muir, David Holland, Dr James Merryweather and friends, Roger and Pat Cottis, Duncan Currie, Bill Woodrow, Nick & Lizzie Sanders, . . . and everyone else



























































Thank you!

