### Council



# Annual Progress Report on Actions taken under the Implementation Plan for the Calendar Year 2022

The Annual Progress Reports allow NASCO to evaluate progress on actions taken by Parties / jurisdictions to implement its internationally agreed Resolutions, Agreements and Guidelines and, consequently, the achievement of their objectives and actions taken in accordance with the Convention. The following information should be provided through the Annual Progress Reports:

- any changes to the management regime for salmon and consequent changes to the Implementation Plan;
- actions that have been taken under the Implementation Plan in the previous year;
- significant changes to the status of stocks, and a report on catches; and
- actions taken in accordance with the provisions of the Convention.

## In completing this Annual Progress Report please refer to the Guidelines for the Preparation and Evaluation of NASCO Implementation Plans and for Reporting on Progress, <u>CNL(18)49</u>.

These reports will be reviewed by the Council. Please complete this form and return it to the Secretariat **no later than 1 April 2023**.

Party:	Russian Federation
Jurisdiction / Region:	

# 1: Changes to the Implementation Plan

- **1.1 Describe any proposed revisions to the Implementation Plan** (Where changes are proposed, the revised Implementation Plans should be submitted to the Secretariat by 1 November).
- 1.2 Describe any major new initiatives or achievements for salmon conservation and management that you wish to highlight.

## 2: Stock status and catches.

- 2.1 Provide a description of any new factors that may affect the abundance of salmon stocks significantly and, if there has been any significant change in stock status since the development of the Implementation Plan, provide a brief (200 word max) summary of these changes.
- 2.2 Provide the following information on catches: (nominal catch equals reported quantity of

salmon caught and retained in tonnes 'round fresh weight' (i.e. weight of whole, ungutted, unfrozen fish) or 'round fresh weight equivalent').

unfrozen fish) or 'rol	unfrozen fish) or 'round fresh weight equivalent').			
(a) provisional nominal	In-river	Estuarine	Coastal	Total
catch (which may be	36.24	0.0	19.14	55.38
subject to revision) for				
2022 (tonnes)				
(b) confirmed nominal	31.57	0.0	17.25	48.82
catch of salmon for				
2021 (tonnes)				
(c) estimated	n/a	n/a	n/a	n/a
unreported catch for				
2022 (tonnes)				
(d) number and	10,324 salmon were caught and released (64% of the total recreational			total recreational
percentage of salmon	rod catch). These figures do not include 178 salmon retained by local			
caught and released in	residents in recreational gillnet fishing in the Arkhangelsk region and			
recreational fisheries in	on the Pechora River for subsistence.			
2022				

## **3:** Implementation Plan Actions.

### **3.1 Provide an update on progress on actions relating to the Management of Salmon** Fisheries (section 2.9 of the Implementation Plan).

Note: the reports under 'Progress on action to date' should provide a brief overview of each action. Please report in relation to the reporting year only or the most relevant recent year. For all actions, provide clear and concise quantitative information to demonstrate progress. In circumstances where quantitative information cannot be provided for a particular action because of its nature, a clear rationale must be given for not providing quantitative information and other information should be provided to enable progress with that action to be evaluated. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.

A	Destition	Determine mehlem energy Estimate the level of mounted
Action	Description of action	Determine problem areas. Estimate the level of unreported
F1:	(as submitted in the IP)	catches. Take further measures to reduce unreported catches.
	Expected outcome	Reduced level of unreported catches in problem areas.
	(as submitted in the IP)	
	Approach for	Estimate unreported catches.
	monitoring effectiveness	
	& enforcement	
	(as submitted in the IP)	
	Progress on action to	No estimates of unreported catches is available for 2022.
	date	
	(Provide a brief overview	The Murmansk Regional Commission on Regulation of
	with a quantitative	Harvesting the Anadromous Fish closed salmon
	measure, or other justified	recreational catch-and-take fisheries in some fishing sites
	evaluation, of progress. If	of the Varzuga and Kola rivers and established "no
	sub-actions are completed	fishing" periods for coastal, in-river commercial and
	during the reporting year,	recreational fisheries for 2022 season.
	this should be made clear.	
	Other material (e.g.	Representional and commercial fishing sites were protected
	website links) will not be	Recreational and commercial fishing sites were protected

	evaluated)	by fish guards hired by the fishing sites managers.
		Protection patrols were carried out using different methods on lakes and rivers by fish inspectors of the Regional Directorate of the Federal Agency for Fisheries.
		Protection patrols in coastal areas of Barents and White seas were carried out using different methods by fish inspectors of the Border Guard Department of the Russian Federal Security Service.
	Current status of action (Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as	Ongoing
	<i>Ongoing'</i> ) If 'Completed', has the action achieved its objective?	
Action F2:	Description of action (as submitted in the IP)	Continue developing the conservation limits for salmon stocks.
	Expected outcome (as submitted in the IP)	Data on the status of salmon stocks. Conservation limits for all 9 salmon stocks.
	Approach for monitoring effectiveness & enforcement (as submitted in the IP)	Monitoring of status of salmon stocks relative to the reference points.
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)	Conservation limits (CLs) have been set for all salmon stocks in the Murmansk region. In the Arkhangelsk region and in the Nenets autonomous district CLs have been set for exploited salmon stocks only. No CLs have been developed for salmon stocks in the Republic of Karelia where no Atlantic salmon fishing is allowed except for scientific and stock-rebuilding purposes. CLs for Atlantic salmon stocks in the Barents Sea rivers of the Murmansk region were revised in 2022. Citation: Zubchenko A.V., Alekseev M.Yu., Dolotov S.I. [et al.]. 2022. Inventory of salmon rivers of the Murmansk Region. Barents Sea Basin. 2nd edition, revised and updated. Ed. by A.V. Zubchenko. Polar Branch of VNIRO ("PINRO" named after N.M. Knipovich). Murmansk: PINRO Press. 309 pp. (in Russian).

Current status of action	Ongoing
(Please note: 'Completed'	
means that the overall	
action is complete for the	
lifetime of the third	
reporting cycle. If it is an	
ongoing action that is	
reported on annually, it	
should be marked as	
'Ongoing')	
If 'Completed', has the	
action achieved its	
objective?	

Action	Description of action	Continue monitoring salmon stocks in the Murmansk region.
F3:	(as submitted in the IP)	Assess the effectiveness of new management measures introduced for interceptory coastal salmon fisheries in the Barents Sea.
	Expected outcome (as submitted in the IP)	Data on status of salmon stocks in the Murmansk region and assessment of the effectiveness of management measures introduced for coastal interceptory salmon fisheries in the Barents Sea.
	Approach for monitoring effectiveness & enforcement (as submitted in the IP)	The Working Group on Atlantic Salmon in Finnmark County and the Murmansk Region under MoU between the Federal agency for Fisheries (Russian Federation) and the Ministry of Climate and Environment (Norway).
		Data on parr densities, run timing, total number and age composition of adult returns to the Barents Sea rivers will be analysed.
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear.	Atlantic salmon returns to some rivers were assessed. The level of attainment of spawning requirements was determined. The estimates of salmon juveniles densities were derived. Recommendations on catch limits for 2023 salmon fisheries were developed for the Federal Agency for Fisheries of the Russian Federation and for the Regional Commissions on Regulation of Harvesting the Anadromous Fish.
	Other material (e.g. website links) will not be evaluated)	No meetings of the Working Group on Atlantic salmon in Finnmark County and the Murmansk Region took place in 2022.
		In 2020 the Kolarctic ENI CBC project CoASal "Conserving our Atlantic salmon as a sustainable resource for people in the North; fisheries and conservation in the context of growing threats and a changing environment (KO4178)" was started. The project aimed to document and examine the new sea salmon fishery regulations in Norway, study the effects of growing threats Atlantic salmon populations face today with climate change, growing cage culture industry and emerging diseases. Initially the project was planned to be completed by December 2021, however it was prolonged to September 2022 due to COVID-19 pandemic.
		The European Commission has suspended the participation of the Russian Federation in the implementation of the cross-border cooperation programmes between the European Union and Russia, starting from March 3, 2022.
	Current status of action (Please note: 'Completed' means that the overall	Ongoing

action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')	
If 'Completed', has the action achieved its objective?	

# **3.2 Provide an update on progress on actions relating to Habitat Protection and Restoration** *(section 3.5 of the Implementation Plan).*

Note: the reports under 'Progress on action to date' should provide a brief overview of each action. Please report in relation to the reporting year only or the most relevant recent year. For all actions, provide clear and concise quantitative information to demonstrate progress. In circumstances where quantitative information cannot be provided for a particular action because of its nature, a clear rationale must be given for not providing quantitative information and other information should be provided to enable progress with that action to be evaluated. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information, this will not be evaluated by the Review Group.

	mation, this will hot be evaluat	
Action H1:	Description of action (as submitted in the IP) Expected outcome	Continue developing the inventories of salmon rivers. Estimate salmon habitat and productive capacity of salmon rivers. Fieldwork and analysis of available data on current quantity of salmon habitat to provide a baseline for future comparison will be conducted in Archangelsk region and in the Republic of Karelia. Inventories of salmon rivers to provide baseline data on salmon
	(as submitted in the IP)	habitat and productive capacity for management in relation to estuarine and freshwater habitat.
	Approach for monitoring effectiveness & enforcement (as submitted in the IP)	The number of rivers with available data on salmon habitat, historical and current status of salmon stocks, their distribution, spawning and nursery grounds, salmon carrying capacity of rivers and biological features of salmon (run timing, age, length and weight composition, etc.).
	Progress on action to date (Provide a brief overview with a quantitative	The inventory of the Barents sea salmon rivers of the Murmansk region was revised, updated and published in 2022.
	measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)	The Inventory describes geographic and hydrographic conditions in 54 salmon rivers and creeks of the Barents Sea Basin, also providing information on salmon diet and parasite fauna in some of the watercourses. The book presents data on fish fauna, river infrastructure, status and distribution of salmon stocks, fishery, spawning and nursery grounds, adult salmon and smolt carrying capacity of rivers, and salmon biology. The focus is made on habitat description and discussion of different

		<ul> <li>(physical, chemical, and biological) types of impacts and activities affecting salmon stocks.</li> <li>Citation: Zubchenko A.V., Alekseev M.Yu., Dolotov S.I. [et al.]. 2022. Inventory of salmon rivers of the Murmansk Region. Barents Sea Basin. 2nd edition, revised and updated. Ed. by A.V. Zubchenko. Polar Branch of VNIRO ("PINRO" named after N.M. Knipovich). Murmansk: PINRO Press. 309 pp. (in Russian).</li> </ul>
		No inventories of salmon rivers have been developed for other regions. No fieldwork and analysis of available data on current quantity of salmon habitat was conducted in the Arkhangelsk region and the Republic of Karelia in 2022.
	Current status of action (Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')	Ongoing
	If 'Completed', has the action achieved its objective?	
Action H2:	Description of action (as submitted in the IP) Expected outcome (as submitted in the IP) Approach for monitoring effectiveness & enforcement	Development of habitat protection and restoration plans for specific rivers. Detailed habitat protection and restoration plans for specific rivers. Evaluate habitat protection and restoration plans for specific rivers. Evaluate effectiveness of their implementation. Estimate
	(as submitted in the IP)	a change in quantity and quality of salmon spawning and nursery grounds. Estimate a change in salmon carrying capacity.
	Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g.	Annual recommendations on habitat restoration were updated for a number of salmon rivers in Murmansk and Arkhangelsk regions, and for Republic of Komi. No detailed habitat protection and restoration plans have been developed for specific rivers.

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	website links) will not be evaluated) Current status of action (Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')	Ongoing
	If 'Completed', has the action achieved its objective?	
Action H3:	Description of action (as submitted in the IP) Expected outcome	
	(as submitted in the IP) Approach for monitoring effectiveness & enforcement (as submitted in the IP)	
	Progress on action to date (Provide a brief overview with a quantitative	
	measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g.	
	website links) will not be evaluated) Current status of action	Choose an item.
	(Please note: 'Completed' means that the overall action is complete for the lifetime of the third reporting cycle. If it is an	
	ongoing action that is reported on annually, it should be marked as 'Ongoing')	
	If 'Completed', has the action achieved its objective?	

3.3 Provide an update on progress on actions relating to Aquaculture, Introductions and

#### **Transfers and Transgenics** (section 4.11 of the Implementation Plan).

Note: the reports under 'Progress on action to date' should provide a brief overview of each action. Please report in relation to the reporting year only or the most relevant recent year. For all actions, provide clear and concise quantitative information to demonstrate progress. In circumstances where quantitative information cannot be provided for a particular action because of its nature, a clear rationale must be given for not providing quantitative information and other information should be provided to enable progress with that action to be evaluated. While referring to additional material (e.g. via links to websites) may assist those seeking more detailed information this will not be evaluated by the Review Group.

infori	mation, this will not be evalua	ted by the Review Group.
Action A1:	Description of action (as submitted in the IP)	Developing a policy consistent with the international goals on sea lice and containment agreed by NASCO and ISFA
	Expected outcome (as submitted in the IP)	concerning the protection of wild salmonids. Achievement of the international goals for 100% of farms to 17 have effective sea lice management and achieving 100% containment.
	Approach for monitoring effectiveness & enforcement (as submitted in the IP)	Monitoring program on sea-lice and containment.
	(as submitted in the II) Progress on action to date (Provide a brief overview with a quantitative measure, or other justified evaluation, of progress. If sub-actions are completed during the reporting year, this should be made clear. Other material (e.g. website links) will not be evaluated)	Experts of the Murmansk Animal Health Center monitored fish infestation with Lepeophtheirus salmonis in marine cages during quarterly epizootic and ichthyopathological surveys of the mariculture farms in the Murmansk region. Russian veterinary legislation lacks the regulations implying the procedure for diagnostic and treatment- preventive activities in case of fish infestation with these copepods in the mariculture farms. There are also no regulations setting the critical intensity of this parasite's invasion for fish of different ages when farming in marine cages. Thus, veterinary experts collected information on fish infestation by calculating Lepeophtheirus salmonis invasion intensity during routine parasitological studies in the marine cage farms of the Murmansk region.
		In 2022 in marine cage farms of the Murmansk region (PJSC "INARCTICA" (former PJSC "Russian Aquaculture") and PJSC "Russian Salmon"), the intensity of sea lice infestation in fish of different ages ranged from 2 to 4.
		In addition, the fish farms independently monitored the intensity of parasite. To control the invasion of sea lice, the PJSC "INARCTICA" has adopted the Standard Operating Procedure (SOP) for monitoring the intensity of invasion. As a part of the SOP, company's personnel are trained to gain skills in identifying different life stages and species of sea lice (Lepeophtheirus salmonis and

	Caligus elongatus).
	When the water temperature is 5°C and higher, in every fish farming complex monitoring for the invasion intensity is performed every 7 days, alternately for each half of the cages. When the water temperature is low, monitoring is not performed as fish is at high risk for the development of winter ulcers. For counting, 20 fish specimens are taken from every cage, and then they are sedated by an anesthetic solution and thoroughly examined. The obtained data on the species and life stages of sea lice are listed in the table and later used to assess the dynamics of the invasion intensity in every fish farming complex, as well as for the company. Control over the correct Standard Operating Procedure (SOP) performance is carried out by the company's biological service.
	To achieve 100% containment the PJSC "INARCTICA" has introduced the following practices:
	<ul> <li>monthly checks of cages and nets for integrity by divers and robots;</li> <li>cage and net checks for robustness after every cycle of use;</li> <li>fish counting procedures to control numbers of salmon at every stages: introduction to a cage, dead fish collection, stock removal.</li> </ul>
	There were no salmon escapes from marine farms in the Murmansk region in 2022.
Current status of action (Please note: 'Completed' means that the overall action is complete for the	Ongoing
lifetime of the third reporting cycle. If it is an ongoing action that is reported on annually, it should be marked as 'Ongoing')	
If 'Completed', has the action achieved its objective?	

Action	Description of action	Minimise the risk of further spread of Gyrodactylus salaris.
A2:	(as submitted in the IP)	Implement the eleven recommendations contained in the 'Road
		Map' to enhance information exchange and co-operation on
		monitoring, research and measures to prevent the spread of
		Gyrodactylus salaris.
	Expected outcome	Further measures to prevent the introduction or further spread
	(as submitted in the IP)	of
		parasite due to aquaculture and recreational fisheries.
		The development of a plan in line with the 11
		recommendations
	1.0	contained in the Road Map.
	Approach for	Parasitological monitoring programmes on salmon rivers.
	monitoring effectiveness	The number of recreational fisheries with implemented
	& enforcement	programmes to prevent the spread of parasite on fishing
	(as submitted in the IP)	equipment, tackle, etc.
		The development of a plan in line with the 11 recommendations
		contained in the Road Map.
	Prograss on action to	
	Progress on action to	In Russia, G. salaris, as a pathogenic parasite, was first
	date	recorded in the Keret River (Republic of Karelia, the
	(Provide a brief overview	White Sea basin) in 1992. G. salaris, therefore, has been
	with a quantitative	monitored since 1993 in the salmon rivers of the Barents
	measure, or other justified	and White Seas. Since 2009, monitoring has been carried
	evaluation, of progress. If sub-actions are completed	out on a regular basis within the framework of the
	during the reporting year,	Program of State Monitoring of Aquatic Bioresources of
	this should be made clear.	Inland Water bodies in the Murmansk region and the
	Other material (e.g.	rivers of the Republic of Karelia in the White Sea basin.
	website links) will not be	
	evaluated)	In the Murmansk region the parasite G. salaris was
		recorded for the first time in the Pak River in 2015 and in
		the Shovna River in 2017 (Lower Tuloma reservoir,
		Barents Sea basin). As a source of infestation of Atlantic
		salmon juveniles, an infected rainbow trout is considered
		which escaped the cages of aquaculture farms located in
		the reservoir. No parasite has been found in other salmon
		tributaries of the Lower Tuloma reservoir so far.
	115-	unoduries of the Lower Turonia reservoir so fai.
		In 2022, G. salaris was found on 81.8% of the studied 11
		parr in the Pack River with intensity varied from 2 to 639
		parasite per fish and the abundance index was 144.7. No
	-	parasite was found on salmon juveniles in other
		monitored rivers.
		Experts of the Murmansk Animal Health Center took
		actions to prevent the spread of Gyrodactylus salaris in
		the Murmansk region during surveys of the freshwater
		aquaculture farms and through outreach activities.
		Stocking material for the needs of freshwater aquaculture
		was transferred in compliance with the requirements of

		Russian veterinary legislation, as well as with mandatory parasitological survey of fish for the transfer, and taking into account the epizootic status of the water body.
		In addition, preventive measures for fish farming at the freshwater aquaculture facilities were in line with the veterinary and sanitary plans involving obligatory quarterly parasitological surveys, anti-parasitic treatments of fish (if required), disinfection of gear, equipment and floating crafts, etc. and also in line with the "Instruction on actions to prevent fish gyrodactylosis", adopted by the Veterinary Department (Ministry of Agriculture and Food of the Russian Federation) on 08.06.1998.
		The Anti-Epizootic Commission of the Murmansk region restricted live fish transfers from the region of Leningrad and from Republic of Karelia into Murmansk region. The Commission made recommendations to ban the development of new aquaculture sites in watercourses where Atlantic salmon occurs. No new aquaculture sites were established in such freshwater areas in 2022.
		Outreach activities included posting information on the websites of the Murmansk Veterinary Committee and Animal Health Center of the Murmansk Region. Recreational fisheries companies in the Murmansk region implement voluntary programmes to prevent the spread of parasite on fishing equipment, tackle, etc. by use of approved disinfection methods. The regional Severomorskiy Directorate of the Federal Agency for Fisheries has developed recommendations for users of salmon fishing sites and for anglers.
	Current status of action	Ongoing
	(Please note: 'Completed'	
	means that the overall action is complete for the	
	lifetime of the third	
	reporting cycle. If it is an ongoing action that is	
	reported on annually, it	
	should be marked as 'Ongoing')	
	If 'Completed', has the	
	action achieved its	
	objective?	
Action	Description of action	
A3:	(as submitted in the IP) Expected outcome	
	(as submitted in the IP)	

Approach	n for	
monitorin	ng effectiveness	
& enforce	ement	
(as submit	ted in the IP)	
Progress	on action to	
date		
(Provide a	brief overview	
with a qua		
	or other justified	
	, of progress. If	
	s are completed	
during the	reporting year,	
this should	t be made clear.	
Other mat	erial (e.g.	
	nks) will not be	
evaluated)		
Current st	tatus of action	Choose an item.
	te: 'Completed'	
	t the overall	
CARACTERIA CONTRACTOR AND A CONTRACT	omplete for the	
lifetime of		
	cycle. If it is an	
	ction that is	
	n annually, it	
should be		
'Ongoing'		
	leted', has the	
action ach		
objective	?	

## 4: Additional information required under the Convention

4.1 Details of any laws, regulations and programmes that have been adopted or repealed since the last notification.

4.2 Details of any new commitments concerning the adoption or maintenance in force for specified periods of time of conservation, restoration, and other management measures.

- 4.3 Details of any new actions to prohibit fishing for salmon beyond 12 nautical miles.
- 4.4 Details of any new actions to invite the attention of States not party to the Convention to matters relating to the activities of its vessels which could adversely affect salmon stocks subject to the Convention.

4.5 Details of any actions taken to implement regulatory measures under Article 13 of the Convention including imposition of adequate penalties for violations.

North American Commission Members only:

4	1.6 Details of any new measures to minimise bycatches of salmon originating in the rivers of
	the other member.
4	1.7 Details of any alteration to fishing patterns that result in the initiation of fishing or increase
	in catches of salmon originating in the rivers of another Party except with the consent of

the latter.

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