



Agenda item 7.2
For information

Council

CNL(18)15

*Progress Reports on Planning for the
International Year of the Salmon*

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Progress Reports on Planning for the International Year of the Salmon

1. At its Thirty-Third (2016) Annual Meeting, the Council had recognised that an International Year of the Salmon (IYS) could provide a very good opportunity to raise awareness of the factors driving salmon abundance, the environmental and anthropogenic challenges they face and the measures being taken to address these. An Outline Proposal for an IYS, entitled ‘*Salmon and People in a Changing World*’, which included a proposed rationale, vision, themes and timings for the IYS, together with details of its scope, a governance model and initial budgetary considerations, was broadly accepted by the Council subject to some provisional points of clarification. The focal year of the IYS is 2019 and, if the event is to be the success that we all hope and intend, careful planning by the lead organizations (NASCO and NPAFC), the core partners, Parties/jurisdictions, NGOs and others will be essential. This paper provides a brief overview of progress in planning for the IYS.
2. Since last year, two of the three committees envisaged under the governance model in the Outline Proposal (IYS(16)2) have met and undertaken work (Annex 1). It was recognised that the Coordinating Committee required support in the development of IYS activities which has resulted in a Technical Team being formed. The Technical Team is a sub-group of the Coordinating Committee that undertakes activities at the ‘salmosphere’ level. The current NASCO representation on these Committees is as follows:

Coordinating Committee: Raoul Bierach (Norway), Kim Damon-Randall (USA, Co-Chair), Emma Hatfield (Secretariat) and Arnaud Peyronnet (EU).

Technical Team: Kim Damon-Randall (USA, Co-Chair) and Emma Hatfield (Secretariat).

North Atlantic Steering Committee: Raoul Bierach (Norway), Doug Bliss (Canada), Ciaran Byrne/Arnaud Peyronnet (EU), Kim Damon-Randall (USA, Chair), Tommy Petersen (Denmark (in respect of the Faroe Islands and Greenland)), Emma Hatfield (Secretary), Paul Knight (NGOs) and *Vacant* (Head of Delegation, Russian Federation).

Symposium Steering Committee: Tony Blanchard (Canada), Ciaran Byrne (EU, Co-Chair) and Emma Hatfield (Secretariat).

Coordinating Committee and Technical Team

3. The NASCO and NPAFC Presidents met on 15 August 2017 in Vancouver, Canada to establish a common understanding of the mandates, priorities and organizational structures of each organization and more specifically, to advance their partnership and interests in the International Year of the Salmon (IYS). The IYS Director for the Pacific Region, Mr. Mark Saunders and NPAFC Executive Director, Dr. Vladimir Radchenko also participated in the meeting. The meeting and associated visits to fisheries and scientific sites throughout the southern British Columbia region of Canada were very positive with formal and informal exchange of information between the two Presidents. One of the key outcomes indicated that the Presidents had agreed to take a leadership

role and to encourage and support the work of the IYS committees in mobilising and facilitating such activities to get underway by the relevant Parties, organizations and stakeholders within their individual convention areas and to ensuring that the IYS partnership between NASCO and NPAFC does not constrain the focus or advancement of any such activity.

4. The Coordinating Committee has held one conference call and one face to face meeting in London since last June; the reports of its meetings are available at www.nasco.int/iys.html. The Technical Team has held three meetings to support the delivery of the IYS website and key messages document, in addition to developing concepts raised by the Coordinating Committee. The Technical Team met for the first time in December 2017 in Gloucester, MA, and has subsequently had two conference calls. The team has proved essential in progressing the IYS and enabling decisions to be made by the Coordinating Committee and Steering Committees.
5. It had previously been agreed that an international scientific symposium should be held in 2018 to launch the IYS. However, for various reasons it has not been possible to bring the symposium to fruition and the Symposium Steering Committee have instead been re-tasked to deliver a concluding symposium in 2022. This will allow the IYS outputs, including science but also on the management implications of the science and the human dimension, including the ecological, economic and social values of salmon, to be presented. The members of the Committee need to be agreed by summer 2020 – at the respective NASCO and NPAFC 2020 Annual Meetings – to enable adequate time for the planning and organizing of the concluding symposium.
6. The IYS logo and style guide are available for use by organizations and events supporting the conservation of wild salmon and relating to the themes of the IYS. ‘My Loudspeaker’ www.myloudspeaker.ca/, have developed the IYS website (<http://yearofthesalmon.org>) which is due to be launched in late June / early July. ahead. An application has been made to introduce the IYS at a side event of the meeting of the Committee on Fisheries (COFI), a subsidiary body of the UN’s Food and Agricultural Organization Council, in early July. This would be an opportunity to highlight the initiative at this global inter-governmental forum.
7. The launch of the IYS will be made by Ministers and Community Leaders from across the hemisphere in late October. Jurisdictions have been asked to identify and approach their appropriate Leader or Minister and ask them to take part in launching the IYS within a 48-hour period across the hemisphere. A briefing paper is being produced to which local information will be added.
8. The joint request for IYS funding by NPAFC and NASCO to the Fisheries and Oceans Canada Partnership Fund was successful. This resulted in CAN\$75,000 per lead organization per year for the financial years 2017/18 and 2018/19. This support from Canada is very much appreciated. The first-year report on activities was submitted to Fisheries and Oceans Canada on April 30, 2018.
9. In support of outreach and communications at the hemispheric level a set of key messages were developed and agreed via correspondence in late March 2018. The Key Messages document (ICC(18)05) is available for use and is annexed here (Annex 2).

Exchange of Scientists and Research Collaborations

10. It has previously been agreed that there could be benefits from improved exchanges between scientists working around the salmosphere with a view to exploring options *inter alia* for improved consistency in data collection and analytical methods. As recommended by the Council the International Atlantic Salmon Research Board (IASRB) has been involved in considering any IYS research activities proposed by scientists in the Pacific region. To date Pacific researchers have taken part in two Atlantic initiatives and a mapping exercise has been undertaken to identify shared areas of research interest between the Pacific and Atlantic Basins.
11. NPAFC undertook an exercise to determine the research priorities and projects that will have the highest likelihood of making a measurable difference with the Fisheries and Oceans Canada IYS network and the North Pacific Steering Committee. This resulted in a research prospectus. Rory Saunders (Chair of the IASRB) and Niall Ó Maoiléidigh (Chair of the Scientific Advisory Group of the IASRB – the SAG) corresponded with Mark Saunders (IYS Director for Pacific Region) in late 2017. The group undertook an exercise to map the NASCO inventory of research against the NPAFC’s research prospectus, to begin the process of identifying shared areas of research in the Atlantic and Pacific. The mapping exercise has concluded in a research strategy document which will be presented to the SAG and IASRB at the Annual Meeting.
12. A Likely Suspects Framework workshop was hosted (and partially funded) by the IASRB in Edinburgh, UK in November 2017 to develop this project run by the Atlantic Salmon Trust. 5 Pacific researchers attended the workshop given the potential application of the likely suspects concept to the wider salmosphere, including Pacific Basin salmon species.
13. Pacific Basin researchers are also planning on engaging with the ROAM project exploring the causes of marine mortality of salmon at sea using a new telemetric tagging method to delineate migratory pathways. The initial meeting of the ROAM project planned for March 2017 was cancelled due to the weather but is currently being rescheduled to take place in advance of the Annual Meeting.

North Atlantic Steering Committee

14. The North Atlantic Steering Committee (NASC) met via teleconference in late November 2017, in London in late January 2018 and again via teleconference in early April and May 2018. Reports of all the meetings (IYS(17)3, IYS(18)04, IYS(18)10, IYS(18)14) are available at www.nasco.int/iys.html. Representatives of all NASCO Parties except the Russian Federation have attended the meetings together with a representative from NASCO’s accredited NGOs. Of the three core partners (EIFAAC, ICES and OSPAR), since June 2017, EIFAAC have attended all but one meeting and ICES have attended two of the four meetings. The input from, and expertise of, the participants was very much appreciated.
15. As requested by the Council, the NASC delivered a Special Session on the IYS held during the 2017 Annual Meeting. The Special Session provided NASCO Parties and jurisdictions and NGOs with a variety of case studies, such as the World Fish Migration Day, to learn from alongside more technical talks from specialists regarding public engagement and moving people from empathy to action.

16. Outreach has been agreed as the focus of the IYS in the North Atlantic to raise awareness of the challenges facing salmon, the measures being taken to conserve them and to foster support for research. To underpin all the outreach activities, including the website, the NASC agreed that professional input be acquired to refine the key messages produced by the Technical Team of the Coordinating Committee. The NASC agreed a final iteration of the messages in March 2018 (Annex 2) and the messages are being used at the hemispheric level. Use at a regional and local level is encouraged with the addition of location-specific information and related messages. Four identified audiences have been agreed by the NASC, and IYS outreach should focus on these groups; the general public, children and youth, the knowledgeable public and decision makers.
17. Engaging the Baltic and Arctic regions in the NASC was raised at the Steering Committee's meeting in January 2018. Given the previous interested noted in the 2017 IYS update (CNL(17)12) in the Baltic region engaging with the IYS, it was notable that a representative had not yet been appointed. The EU Head of Delegation, Arnaud Peyronnet, followed up with the relevant individual in Brussels and HELCOM, the Baltic Marine Environment Protection Commission, has contacted NASCO. It is therefore hoped that a Baltic representative will be found prior to the next face-to-face meeting of the NASC. It had previously been noted that Denmark (in respect of the Faroe Islands and Greenland) agreed to consider an appropriate approach to involving Arctic interests in the work of the NASC. This requires follow up.
18. The possibility of using the IYS to focus collaborative research in the freshwater environment was discussed by the NASC. In general, research in the freshwater environment has been left to the Parties and jurisdictions and has, therefore, been difficult to coordinate. The NASC felt that the IYS should be bringing new things to the table and that it could be used to raise communication on fresh water issues; to "control the controllables" – like smolt quality – through studies on such issues as the effects of pH and of climate mitigation. The clear message from the salmon summit in 2011 was mentioned a number of times – one of the main ways to mitigate marine mortality is to get more (high-quality) smolts out into the ocean.
19. The IYS website is being developed as a 'landing page' where basic information can be supplied about the IYS before the visitor is directed to a website containing information in their preferred language or relevant geographic location. These websites will, in most cases, be the IYS pages of a jurisdiction's government and / or relevant department. However, it is also anticipated that the IYS website will increase the visits made to the NASCO website. The NASCO website was last updated eight years ago using an infrastructure that has now been superseded. The Secretary has been informed that the current infrastructure supporting the website would not be able to accommodate elements of the State of Salmon report or any social media feeds related to the IYS. The NASC have therefore discussed the desire that the website is refreshed ahead of the IYS. Given this situation the NASC recommend to the Council that the NASCO website is updated, and that due to the requirements related to the IYS and the benefits an enhanced NASCO website would bring the IYS, suggest the update costs are taken from the NASCO IYS fund. Should the Council agree with this recommendation the Secretariat would aim to complete the update in the first quarter of 2019.

20. The money currently residing in the NASCO IYS account is £145,000 and there will be a further £20,000 added to this in 2019, as previously agreed by the Council (CNL(17)5). It was proposed and agreed at the NASC meeting in April that a minimum of £25,000 should be ring fenced to support the IYS Symposium in 2022, the event being scheduled as a concluding symposium for IYS. It is anticipated that two other areas of major spend will be the State of Salmon report and a new NASCO website. The State of Salmon report is the NASCO output for the IYS and will require elements of the report to be delivered through commissioning pieces of work such as ‘salmon and people’ photo stories from professional photographers.
21. The Technical Team of the Coordinating Committee put together a document concerning the use of social media (e.g. Facebook and Twitter) during the IYS. The NASC discussed the options and concluded that NASCO should consider using Twitter, treating it as a tool to disseminate information and direct followers to IYS information on the NASCO website or other platforms. It was recognised that the Secretariat did not have the capacity to manage several social media feeds, many of which require daily updating and management including the need to enter into conversations with followers. It was also recognised that Twitter relies on large numbers of followers to be effective and that building a following takes time and requires regular posts. The success of a NASCO Twitter feed will rely on linking to the established followings on the NASCO Parties’, jurisdictions’ and NGO’s social media feeds.
22. The template agreed by the NASC to facilitate reporting by Parties / jurisdictions on the IYS activities in 2017 has been simplified to encourage completion of the reporting document. The goals specified in the original iteration of the template were exchanged with the IYS themes to align with reporting at the hemispheric level (see paragraphs 29 and 30 below).

IYS Outreach Workshop

23. To support NASCO Parties / jurisdictions and NGOs in delivering IYS outreach, the NASC proposed that a workshop should be scheduled for 2018. NASCO organised a facilitated two-day workshop in March 2018, held in Edinburgh, UK. 32 people attended and invited speakers and communications professionals contributed their expertise including three people representing the Pacific. The workshop was funded through the grant from the Fisheries and Oceans Canada Partnership Fund. A report of the workshop has been produced and outreach guidelines are being developed to support the delivery of Outreach during 2019.

IYS Symposium Steering Committee

24. As agreed by Council in 2017, an IYS Symposium Steering Committee has been formed to develop the two-day symposium that will precede the 2019 Annual Meeting of NASCO. The members of the Steering Committee are: Doug Bliss (Canada), Kim Damon-Randall (United States), Heidi Hansen (Norway), Grant Horsburgh (EU), Niall Ó Maoiléidigh (ICES), Steve Sutton (NGO), Eva B. Thorstad (Chair of Committee, Norway) and the Head of the Russian Federation Delegation.
25. The Steering Committee met in Trondheim, Norway in November 2017 and by web-conference in January 2018. Following these meetings, business has been conducted

by correspondence. The draft programme will be presented at the IYS Special Session and can be found in Annex 3 of this document.

The State of Salmon Report

26. During the January meeting of the NASC, the State of Salmon Report was discussed and the desire that it is an accessible document that will appeal to a wide audience highlighted. The ‘Atlantic Salmon at Sea: Findings from recent research and their implications for management’ document was cited as an example of the format to use (http://www.nasco.int/sas/pdf/archive/other_reports/Salmon_at_sea.pdf). Members of the NASC also referenced the WWF book, written over a four-year period and published in 2001, entitled ‘The Status of Wild Atlantic Salmon: A River by River Assessment’. It was advised that information relating to the history, culture and importance of wild Atlantic Salmon be included in the publication to put into context the data presented and ensure the publication embraces the IYS theme; ‘Salmon and People in a Changing World’.
27. Whilst additional information will be included in the document, the State of Salmon Report relies heavily on the information contained within the NASCO Rivers Database. Jurisdictions were asked to contribute updates to the database at the 2016 Annual Meeting with a deadline of December 2017 being agreed to allow sufficient time for the information to be compiled. Contributions to the Rivers Database have been received from thirteen of the seventeen jurisdictions and the initial analysis of this data is underway. Contributions have not yet been received from: Canada; Denmark (in respect of the Faroe Islands and Greenland) Faroe Islands; European Union – Spain and European Union – UK (Scotland). Canada have confirmed that their contribution will be provided by August 2018. It is uncertain at this juncture if data will be forthcoming from the other jurisdictions. The NASC have suggested that the State of Salmon report should be compiled with the available data listing ‘no data provided’ for jurisdictions who are not able to contribute.
28. It is anticipated that elements of the State of Salmon report will be used throughout the IYS, released via social media and on the NASCO website. To make the data accessible and appealing to the widest audience possible the use of infographics is being investigated. Options for how the relationship between salmon and people across the Atlantic is expressed, particularly in relation to the anthropogenic challenges salmon face and the measures being taken to address these, is being explored. Methods are being sought that will connect all the identified audiences to the state of salmon.

Progress Report on Actions taken to implement the IYS

29. As indicated in paragraph 22 above, the NASC agreed that it would be useful to have information from NASCO Parties / jurisdictions on the actions that were being planned or undertaken as a contribution to the IYS. The reporting template previously provided to Parties / jurisdictions was adapted to enable the theme the action is delivering on and the target audience the actions intends to reach to be easily identified. The five IYS themes are as follows:

Theme 1: *Status of Salmon*: to understand the present status of salmon and their environments

Theme 2: *Salmon in a changing salmosphere*: to understand and quantify the effects of natural environmental variability and anthropogenic factors affecting salmon distribution and abundance and to make projections of their future changes

Theme 3: *New Frontiers*: to develop new technologies and analytical methods to advance salmon science and to explore the uncharted regions of the salmosphere.

Theme 4: *Human Dimension*: to improve the resilience of people and salmon through the connection and collaboration of salmon-dependent communities, indigenous peoples, youth, harvesters and resource managers across the salmosphere.

Theme 5: *Information Systems*: to develop an integrated archive of accessible electronic data collected during the IYS and tools to support future research.

30. Parties / jurisdictions were requested to provide the completed forms by 15 May 2018 to the Secretariat. Information received will be shared at the Annual Meeting. It is anticipated that in 2019 and 2020 updates on progress with the actions provided will be requested.

Co-Chair of CC/Chair of NASC and Secretariat
Edinburgh
11 May 2018

**Record of meetings and activities in relation to planning for the
International Year of the Salmon in 2019, since March 2017.**

	2017	2018
Meetings		
The IYS Coordinating Committee (CC)	March (conference call) September (conference call)	February (London, UK)
The IYS Technical Team of the Coordinating Committee	December (Gloucester, USA)	March (conference call) April (conference call) Considerable work via correspondence
The North Atlantic Steering Committee (NASC)	November (conference call)	January/February (London, UK) April (conference call) May (conference call)
The IYS Special Session at the NASCO 2017 Annual Meeting	June (Varberg, Sweden)	
The 2019 NASCO IYS Symposium Steering Committee	November (Trondheim, Norway)	January (conference call) Considerable work via correspondence
A meeting of the NPAFC and NASCO Presidents to discuss the IYS and future collaboration between two organizations	August (Vancouver, Canada)	
NASCO attendance at the NPAFC IYS Working Group Meetings and the North Pacific Steering Committee NPSC		February (Vancouver, Canada)
Workshops and Research Projects		
Likely Suspects Framework project	November (Edinburgh, UK)	
NASC IYS Outreach Workshop		March (Edinburgh, UK)
ROAM Workshop		March (Woods Hole, MA) POSTPONED



INTERNATIONAL
YEAR OF THE SALMON

ICC(18)05

KEY MESSAGES

OVERALL MESSAGE (ELEVATOR STATEMENT)

Salmon are at risk from environmental change and human development across the Northern Hemisphere. The epic migrations of salmon through rivers and oceans take them across borders, languages, cultures and economies. Saving these beautiful and influential creatures requires a uniquely large-scale solution. The International Year of the Salmon sets out to protect salmon by bringing countries together to share knowledge, raise public awareness and take action. We have a chance to save not just salmon, but also the communities and cultures that depend on them.

THEMES: *connection, knowledge, action.*

Connection: The International Year of the Salmon brings together countries across the Northern Hemisphere because protecting salmon is critically important to the health of the planet and many of its species – including us. Together we can inspire, discover and make change.

- Nature has sustained salmon successfully for millions of years; today, human interference – in the form of development pressures and climate change – threatens this fantastic traveler of the Northern Hemisphere.
- Since the age of hunter-gatherers, salmon have been a vital resource to humans for food, economy and culture; now, in our time, their very survival across their Northern Hemisphere range is in question.
- Salmon are indicators to alert us to the health of the land, air, rivers and oceans we, and other fish and wildlife, depend on.
- No single country can hope to address fully the challenges that salmon face over their amazing migrations.

- In their epic migrations through rivers and oceans salmon know no borders; to help them we have to reach across borders and build bridges between countries and cultures.

Knowledge: The International Year of the Salmon will harness and kick-start ongoing research, partnerships and public action in Europe, North America and Asia to give salmon a better chance to survive and thrive.

- People across the Northern Hemisphere need to understand more about how migrating Atlantic and Pacific salmon are unique, complex fish that are infinitely precious to those countries where they migrate, breed, give birth and die.
- Collaborating and sharing knowledge across borders is essential to learn how best to help salmon.
- The International Year of the Salmon will draw on science, Indigenous knowledge, and the experience of fishers, policy makers, resource managers and others working to conserve and protect salmon.

Action: The effects that humans have on salmon are now at crucial levels – but it's not too late. Anyone who cares about the survival of salmon can get involved in the International Year of the Salmon. Experts are needed – but it will take the passion and commitment of people from all walks of life to make the difference. Even the smallest contribution can help. Everyone has a role to play.

- Even if you've never seen salmon in the wild, the chances are they play a vital role in ecosystems essential to you. The International Year of the Salmon is your chance to join people across the world to make a difference.
- Salmon provide us with food, livelihoods and community connection. They help us. Now it's our turn to help them.
- Sign up to save salmon! We'll let you know what you can do to help salmon and join like-minded people from across the Northern Hemisphere.
- We have a global issue, but if we all act locally and do what we can, our combined efforts will make a big difference.

TSC(18)05

DRAFT PROGRAM from Symposium Steering Committee May 2018

Master of ceremony for the entire conference: Kim Damon-Randall (United States)

It should be noted that this is the suggested program from the Symposium Steering Committee, and that speakers have not yet been officially invited, and not all of them are informed that they are part of the draft program and planned to be invited.

Speakers from 14.30 on Monday to 11:15 on Tuesday are representatives from indigenous people, and from NGOs, managers and others who will be asked to talk about management challenges under the main themes of NASCO. Specific titles of talks need to be decided after the speakers have been selected and they have accepted the invitation. **All these speakers will be asked to focus on identifying management challenges from their perspectives (as indigenous people, or under each NASCO theme), what their responses to these challenges are, and what they envisage can be done to solve these management challenges in the future.** If some speakers have perspectives that do not fit into this, there should be room for adjustments. If speakers have the background knowledge to do so, they will also be asked to give their thoughts on how they think NASCO can contribute to the responses, and also to include socio-economic perspectives in their talk.

All other speakers will also be encouraged to include their thoughts on challenges and responses related to the theme of their talk.

MONDAY				
CONTENT AND CHAIR OF SESSION	TIME	PROGRAM	SUGGESTED SPEAKER	ALTERNATIVE SPEAKERS
	08:45	Welcome		
Climate change and state of the salmon	09:15	Climate change, overall perspective.	Sir Robert Watson, Chair of the	Kathy Sullivan (USA), former administrator of NOAA and NASA astronaut

Niall Ó Maoiléidigh (Ireland)		Covering the bigger political, economic trends and changes and drivers, such as demographics and others that might be important, and cover the linkage between those climate changes and other big changes.	Intergovernmental Panel on Biodiversity Ecosystem Services (IPBES)	Blair Greenan https://www.researchgate.net/profile/Blair_Greenan Monika Rhein (Lead Author of Oceans Chapter of IPCC WG1 AR5) http://www.ocean.uni-bremen.de/mitarbeiter/mrhein/index_mr_eng.html Lynn Talley http://sam.ucsd.edu/talleyhome.html Susan Wijffels http://www.whoi.edu/profile/swijffels Susan Lozier https://sites.duke.edu/mslozier/ Dave Balton (US Dept. of State) Dr. Lubchenco (former administrator of NOAA) Philippe Cousteau Arni Matheisen or someone else from fisheries part of FAO Bruce Philips - a professor at a university in Australia who was the primary editor of a new book on climate change and fisheries and aquaculture
	09:50	Climate change, key note on the impacts of climate change on Atlantic salmon, by a salmon researcher	Line Sundt-Hansen (Norway)	
	10:15	State of the salmon	NASCO/authors of report	
	10:45	Questions		
	11:00	COFFEE		
Scientific updates/overviews Heidi Hansen (Norway)	11:30	Salmon in the ocean, energetics and feeding. Overview given by a scientist.	Timothy Sheehan (USA) He will be encouraged to collaborate with other scientists to make sure the presentation is representative to the entire distribution area of salmon	
	11:45	Pelagic fishes in the ocean, and how they may impact Atlantic salmon. Overview given by a scientist.	Katja Enberg (Norway) She will be encouraged to collaborate on the presentation with Kjell Utne.	

	12:00	Genetic impacts by aquaculture, climate change, selective fishing and stock enhancement activities. Also how these impacts could influence the ability of wild fish to adapt to a changing environment. Overview given by a scientist.	Sten Karlsson (Norway) He will be encouraged to collaborate with other scientists like Phil McGinnity, Ian Bradbury and Eric Verspoor to make sure the presentation is representative of the entire distribution area of salmon	
	12:25	Questions		
	12:30	Lunch with poster session		
Management challenges and solutions - perspectives from different groups and viewpoints Steve Sutton (Canada)	14:00	Key note, setting the scene, link from science to management. A talk focusing on the human dimensions of environmental change and adaptation. Overview of how humans, management institutions, and social-ecological systems respond and adapt (or not) to environmental change.	Robert Arlinghaus (Germany)	Joshua Cinner (Australia)
	14:30	European indigenous peoples perspectives and traditional knowledge. They should also be asked to talk about the on the ILO convention and how it might interact with salmon management, in relation to NASCO. North American indigenous peoples perspectives and traditional knowledge.	Norwegian sami president Aili Keskitalo (Norway) Shelley Denny (She has been part of the Canadian NASCO delegation for the last two years. Nova Scotia Mi'kmaw Unimaki Institute, Director of Aquatic Research and Stewardship, and she is also part-way through a	The three speakers in this slot is given 12 min each for their presentation

		North American indigenous peoples perspectives and traditional knowledge.	PhD candidacy at Dalhousie University.) Emanuel Rosing, Greenland commission	
	15:10	Challenge of maintaining viable wild Atlantic salmon populations into the future for food and social cultural needs	Vegard Heggem (NGO, Norway and former Liverpool)	River owner organisation in the River Alta
	15:25	Challenge of maintaining viable wild Atlantic salmon populations into the future for food and social cultural needs	Jonathan Carr, Atlantic salmon Federation (Canada)	
	15:40	COFFEE		
Eva B. Thorstad	16:10	Challenge of maintaining viable wild Atlantic salmon populations into the future for food and social cultural needs	Paddy Gargan (Ireland)	
	16:25	Challenge faced in protecting and restoring habitats (freshwater and near coastal)	Andy Good (USA), Atlantic salmon Federation	Ulrich Pulg (Norway, researcher from Germany but now working in Norway), works on management related research on hydropower, habitat etc. Good speaker.
	16:40	Challenge faced in protecting and restoring habitats (freshwater and near coastal)	Paul Knight (UK)	Arlin Rickard (or someone from the Rivers Trust movement)
	16:55	Challenge of managing fisheries sustainably (management systems based on biological constraints/reference points)	Cyndy Breau (Canada), scientist perspective	
	17:10	Questions/Discussion		
	17:30	End of presentations		
		DINNER IN EVENING		

TUESDAY				
TITLE AND CHAIR OF SESSION	TIME	PROGRAM	SUGGESTED SPEAKER	ALTERNATIVE SPEAKER
	09:00	Introduction - good morning		
Management challenges and solutions - perspectives from different groups and perspectives Grant Horsburgh (UK)	09:10	Challenge of managing fisheries sustainably (management systems based on biological constraints/reference points)	Dave Meerburg (Previous DFO, now Atlantic salmon federation Canada)	Raoul Bierach (Norway)
	09:25	Challenge of managing fisheries sustainably (management systems based on biological constraints/reference points)	Nigel Milner (UK)	Pete Gough (Wales), Ron Campbell (Scotland – River Tweed)
	09:40	Challenge of reducing negative impacts of aquaculture activities	Åse Helen Garseth (Norway), on infections in wild fish related to aquaculture	
	09:55	COFFEE		
	10:10	Challenge of reducing negative impacts of aquaculture activities	Stein Lier Hansen (Norway) Leader of The Federation of Norwegian Industries, which is an employers' organisation for 2800 companies - including Marine Harvest. They have made a road map for aquaculture	
	10:25	Challenge of reducing impacts from introductions and transfers on Atlantic salmon in general	Colin Bean (UK)	
	10:40	Challenge of reducing impacts from introductions and transfers - pink salmon.	Eva B. Thorstad (Norway)	

	10:55	Questions/discussion		
	11:15	COFFEE		
What can be learned from other perspectives: Pacific salmonids and public outreach perspectives Doug Bliss (Canada)	11:30	Challenges of managing Pacific salmonids - what can the Atlantic side learn from the Pacific side?	Jennifer Nener (DFO Canada)	Brian Riddell, Commissioner for the Pacific Salmon Commission
	11:45	Challenge of increasing public outreach and engagement to achieve positive outcomes in an environmental context. (Speaker should include some perspectives on should how NASCO could respond to challenges.)	Susan Jacobson http://www.wec.ufl.edu/faculty/jacobsons/	Sam Ham: https://www.linkedin.com/in/sam-h-ham-93972216/ Thomas Heberlein: http://dces.wisc.edu/people/emeritus-faculty/thomas-heberlein/
	12:05	Challenge of increasing public outreach - how do they raise political awareness on salmon on the Pacific side? (Speaker should include some perspectives on should how NASCO could respond to challenges.)	Tawney Lem (Canada)	Brian Everett Riddell
	12:25	Announcement of discussion after lunch		
	12:35	Lunch with poster session		
Beating heart of NASCO and concluding remarks	14:05	Perspectives from the beating heart of NASCO - retrospective of 30 years' experience. And what are his thoughts on the role of NASCO into the future?	Peter Hutchinson (UK)	
	14:25	DISCUSSION with audience What are the opinions of the audience: Which gaps are we not addressing (knowledge gaps and management gaps)? What are the recommendations to NASCO and national managements?	Discussion lead by Doug Bliss (Canada)	
	15:00	Concluding remarks including remarks on how the conference outcomes and discussions is going to be used to move forward (presented to NASCO etc.).	Ken Whelan (Ireland)	
	15:25	Closing the conference, thankyou and goodbyes	Kim Damon-Randall	
	15:30	END		