

#### **North American Commission**

NAC(20)09

Presentation of the ICES Advice on Atlantic Salmon to the North American Commission



#### **Terms of Reference**



#### 3. With respect to Atlantic salmon in the North American Commission area:

- 3.1 describe the key events of the 2019 fisheries (including the fishery at Saint Pierre and Miquelon);
- 3.2 update age-specific stock conservation limits based on new information as available, including updating the time-series of the number of river stocks with established CLs by jurisdiction;
- 3.3 describe the status of the stocks, including updating the time-series of trends in the number of river stocks meeting CLs by jurisdiction;



- ICES advises that when the Framework of Indicators (FWI) was applied in early 2020, a full reassessment was not required and the 2018 ICES advice remains valid
- no mixed-stock fishery options on 1SW non-maturing and 2SW salmon components from North American stocks in 2020
- 2020 marks the final year of NASCO's three year multi-annual regulatory measure for fishing Atlantic salmon at West Greenland

## 3.1 Key Events 2019 Fisheries: Catch



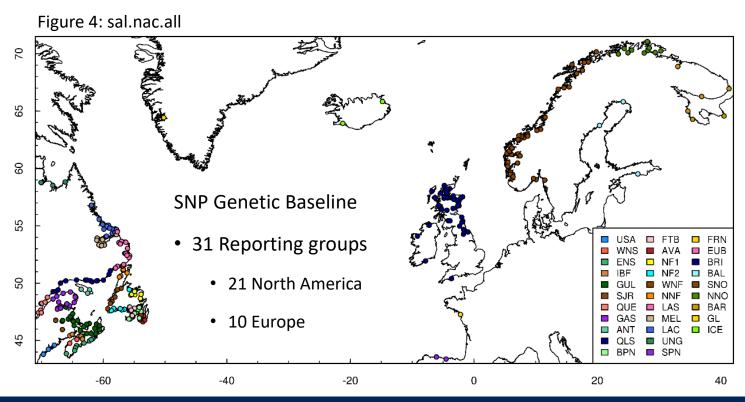
- North America: 95.1 t
  - 93.8 t Canada 2<sup>nd</sup> lowest in time-series
  - 1.3 t Saint Pierre and Miguelon (France) 4<sup>th</sup> lowest in time-series
  - 0 t USA

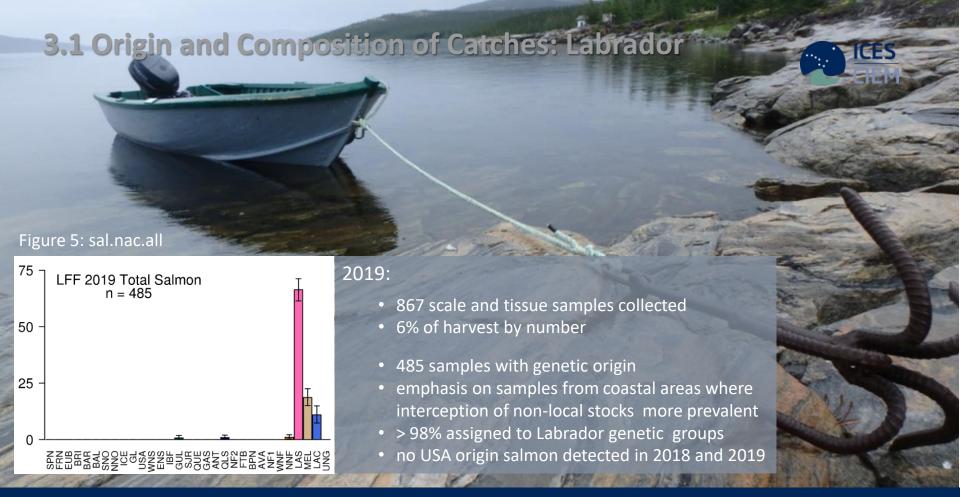
Table 1: sal.nac.all

2019	Canada				Saint Pierre &			
	Commercial	Indigenous (FSC)	Labrador Resident	Recreational	Total	Miquelon (SPM)	USA	North America
Reported Catch (t)	0	54	2	38	94	1	0	95
% of NAC total	-	57%	2%	40%	99%	1%	0%	
Unreported catch (t)	12					-	0	12
Location of catches								
% in-river					52%	0		52%
% in estuaries					41%	0		40%
% coastal					7%	100%		8%

## **3.1** Origin and Composition of Catches

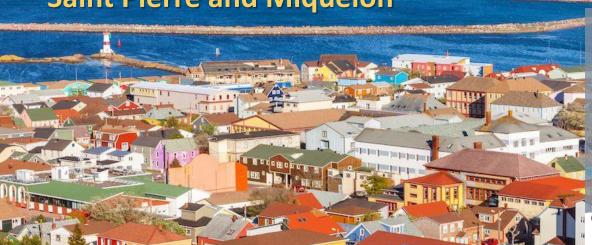






## 3.1 Origin and Composition of Catches:

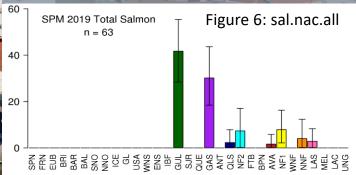






#### 2019:

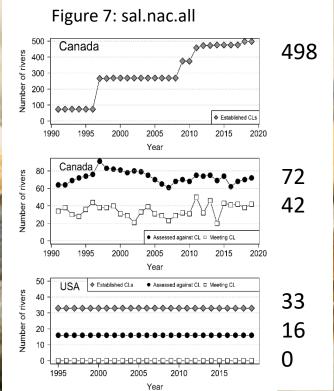
- 63 scale and tissue samples
- 12% of harvest by number
- 96% to 3 reporting groups
  - 42% Gulf of St. Lawrence
  - 30% Gaspe Peninsula
  - 24% Newfoundland



## 3.2 Stock Conservation Limits (CLs)







#### 3.3 Salmon Returns



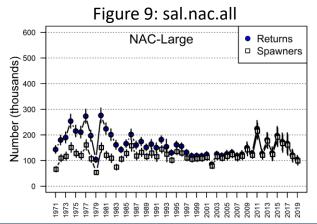
#### Small Salmon (1SW)

- 332,100
- 22% lower than 2018
- 8<sup>th</sup> lowest in time-series
- 87% to Newfoundland and Labrador

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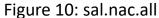
#### **Large Salmon (MSW and repeats)**

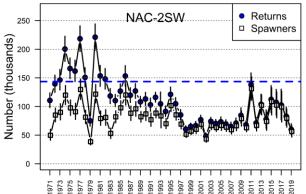
- 103,900
- 15% lower than 2018
- 3<sup>rd</sup> lowest in time-series
- · 75% to Labrador, Quebec and Gulf



#### 2SW Salmon (subset of Large)

- 59,900
- 28% lower than 2018
- 2<sup>nd</sup> lowest in time-series
- 92% to Labrador, Quebec and Gulf



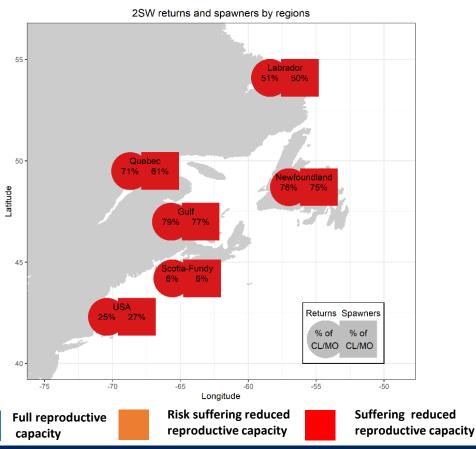


## 3.3 Status of Stocks: By Region

#### 2019:

- 2SW returns and spawners suffering reduced reproductive capacity in all six assessment regions
- Particularly large deficits are noted for Scotia-Fundy (6%) and USA regions (27%)

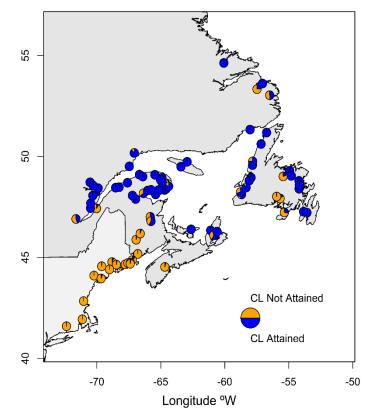
Figure 11: sal.nac.all



## 3.3 Degree of CL Attainment

- Proportion CL Attained = egg deposition / CL
  - 42 of 86 (49%) achieved or exceeded CLs
  - 28 of 86 (33%) were at, or less, than 50% CL
- Canada
  - 1991-2019 CL time-series
    - Number of rivers assessed ranged from 61 to 91
    - percentage rivers achieving CL ranged from 26% to 67% (59% in 2019)
- USA
  - None of the assessed rivers have achieved CLs

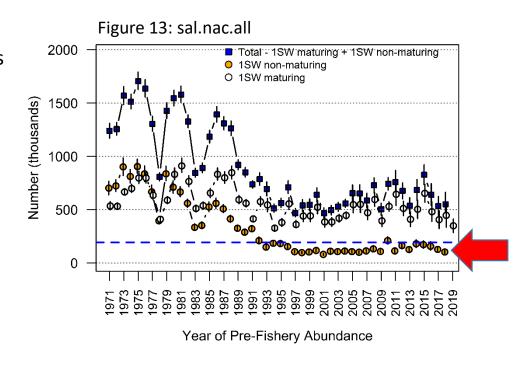
Figure 12: sal.nac.all



## 3.3 Pre-Fishery Abundance (PFA)



- PFA: salmon at sea prior to all marine fisheries (1 August second summer at sea)
  - Two components:
    - 1SW maturing (return as 1SW)
    - 1SW non-maturing (return as MSW)
- 2018 PFA year was 551,700 fish
  - declined 66% over the time-series
  - suffering reduced reproductive capacity



# 3.3 Stock Status Summary

- Atlantic salmon returns remain near historical lows
- all USA and Scotia-Fundy populations at risk
- factors acting on survival at sea are constraining the abundance of salmon
- smolt production declines may be contributing to lower returns in some rivers

