

2018 DFO Spring Survey

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Timing

- DFO Spring Survey completed on March 27th, 2018.
- Three other cruises completed around same time or later in the last 10 years (2009, 2015, 2017).
- No time delay in 2018.

Vessel

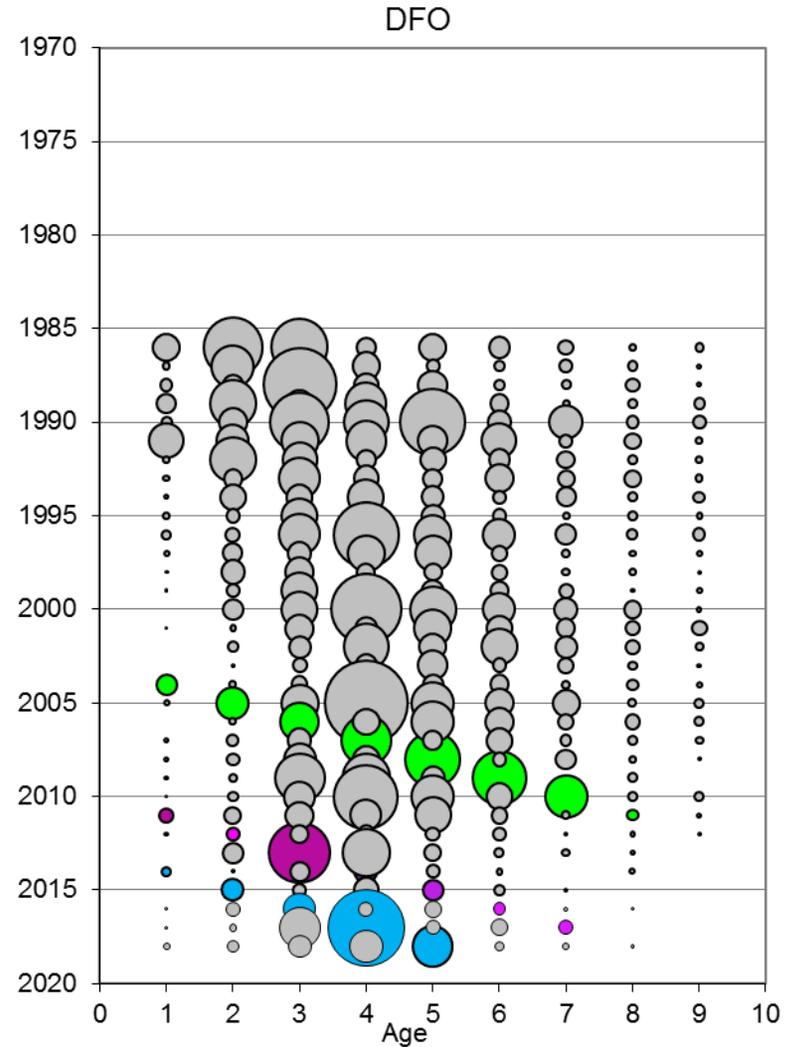
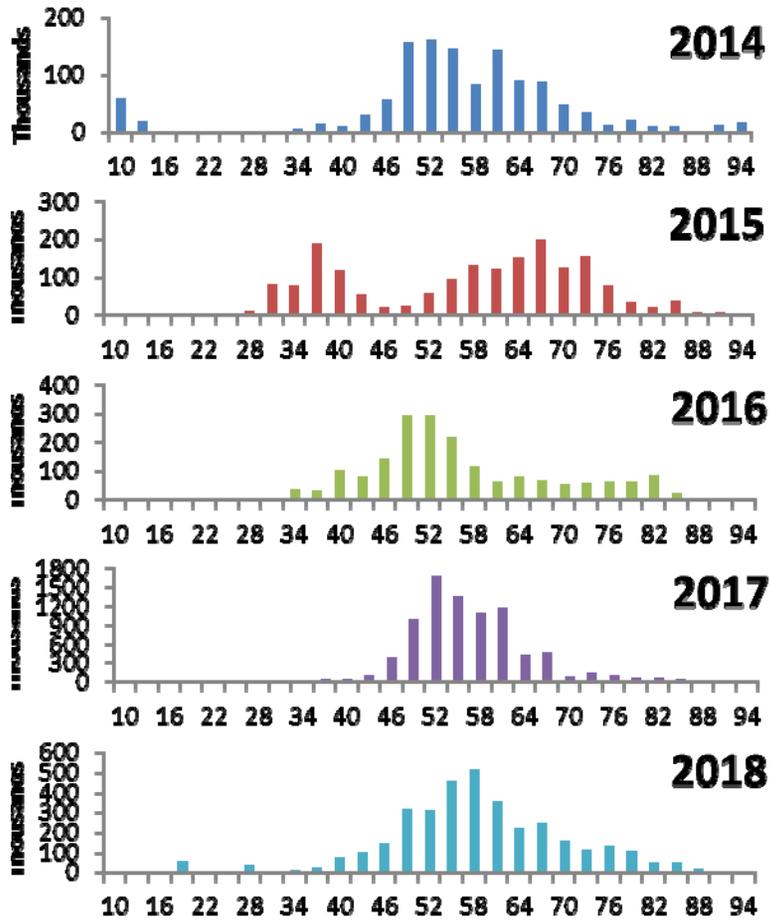
- CCGS Teleost and CCGS Needler not available.
 - Failed TC inspections and re-fit delays.
- No comparative fishing possible.
- Chartered Mersey Venture, as similar in size and design to Teleost as possible:

Name:	CCGS Teleost	Mersey Venture	CCGS Needler
Nationality (Flag state):	Canada	Canada	Canada
Owner:	Government of Canada	Mersey Seafoods Limited	Government of Canada
Operator:	Canadian Coast Guard	Mersey Seafoods (Under charter to DFO)	Canadian Coast Guard
Year Built:	1988 (March)	1988 (September)	1982
Builder	Langsten Slip-Batbyggeri AS	Langsten Slip-Batbyggeri AS	Ferguson Industries Limited
Ship yard:	Tomrefjord, Norway	Tomrefjord, Norway	Pictou, Nova Scotia
Overall length (meters):	63.0 m	63.0 m	50.3 m
Beam	14.2 m	14.2 m	11 m
Maximum draught (meters):	7.2 m	7.5 m	4.9 m
Displacement/Gross tonnage:	2405 t	2336 t	958.9 t
Propulsion:	Geared Diesel	Geared Diesel	Geared Diesel
Cruising (Maximum) speed:	12 knot (13.5 knot)	12 knot (15 knot)	12 knot (16 knot)

Change in Vessel

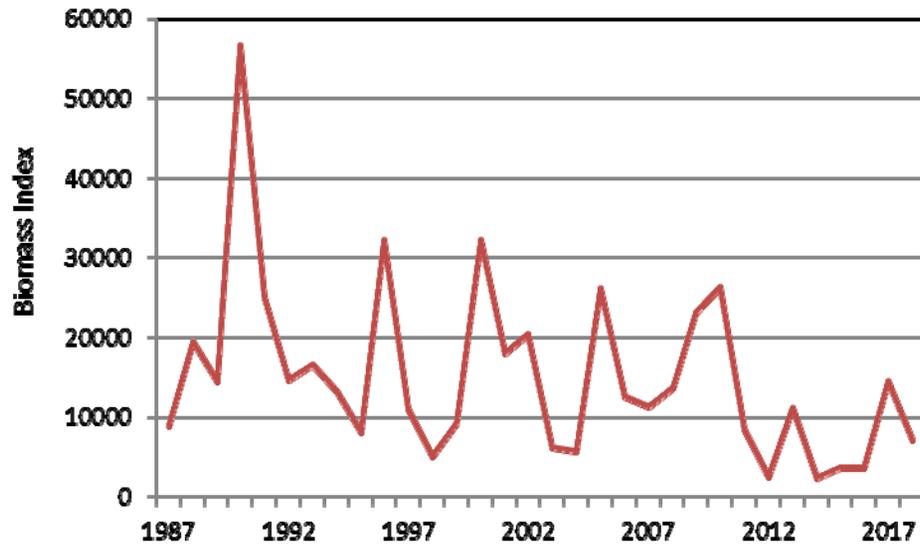
- Identifying a change in catchability is difficult to evaluate without comparative fishing.
- Looked at preliminary survey results with the assumption that any difference in catchability will show up in the data.
- **NOTE: All presented data are preliminary and subject to change as they undergo QA/QC.**

Cod – LFs and CAA

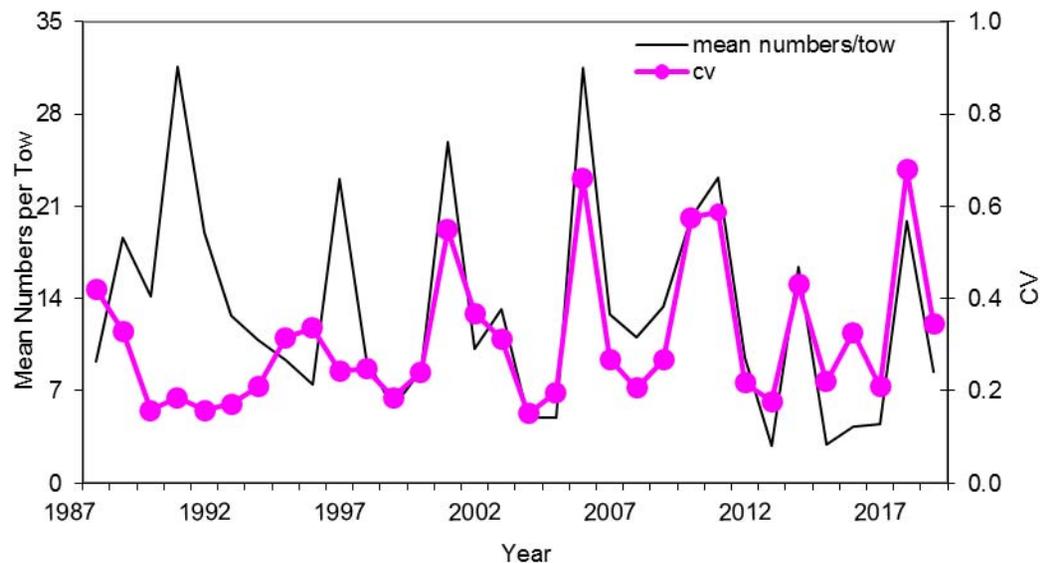


- 2018 DFO Spring Survey data showing expected LF and appears to be tracking cod yearclass signals

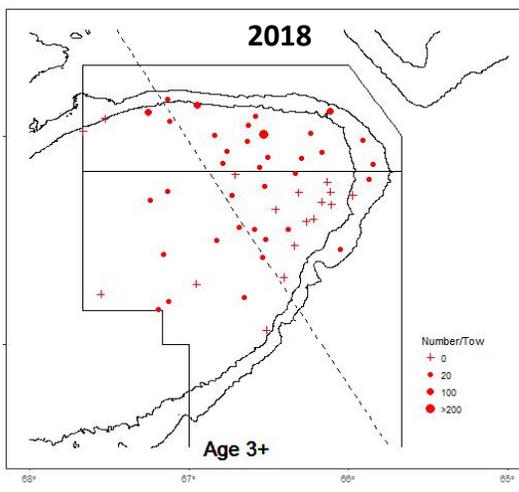
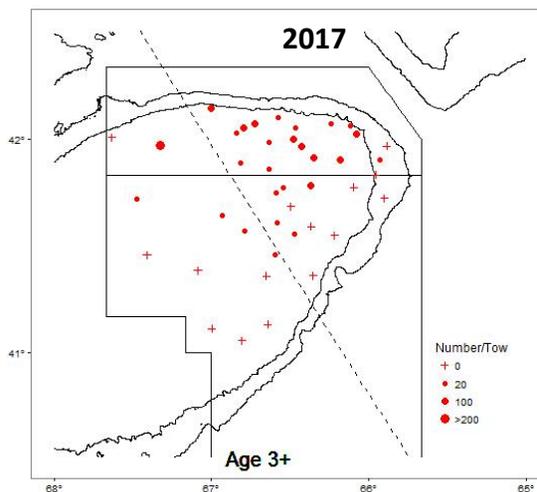
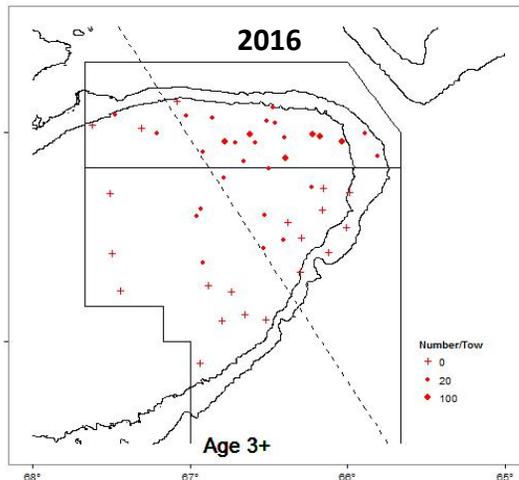
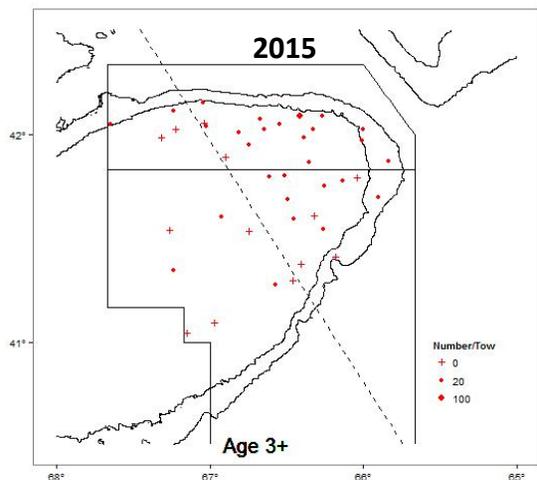
Cod – Mean # per tow



- 2018 DFO Spring Survey biomass value, kg/tow and CV decreased from previous year, but are consistent with what was seen in previous years (with interannual variation).

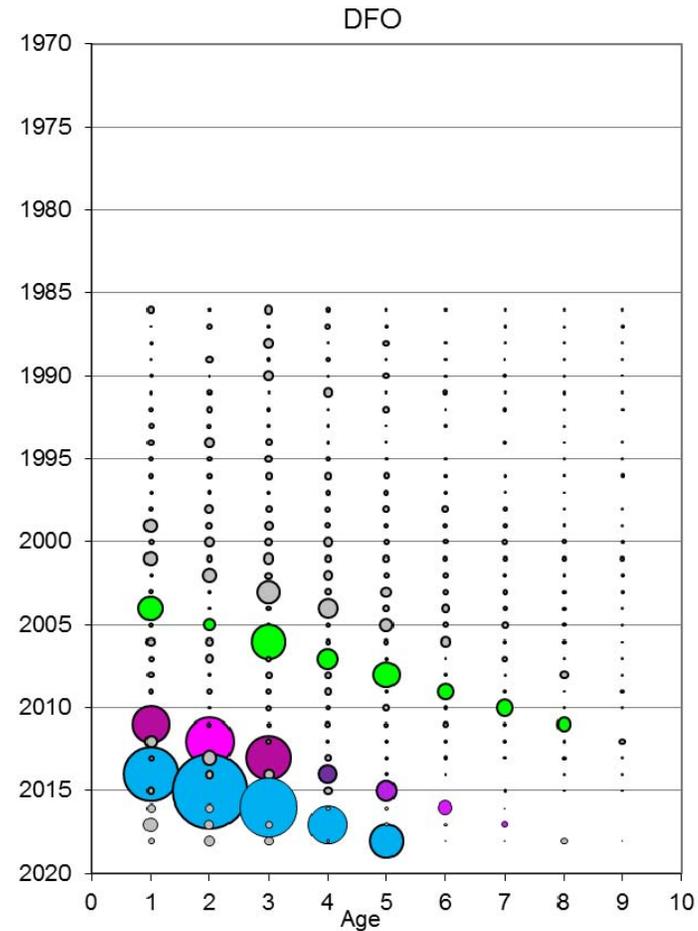
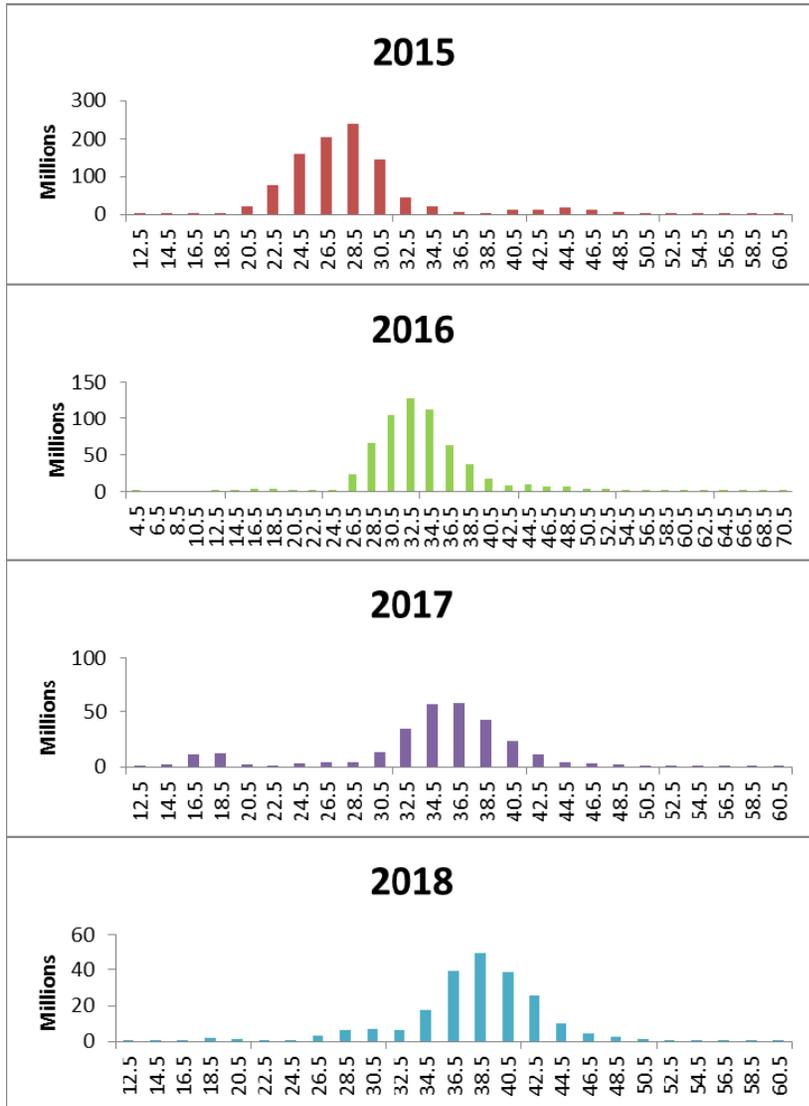


Cod – Distribution



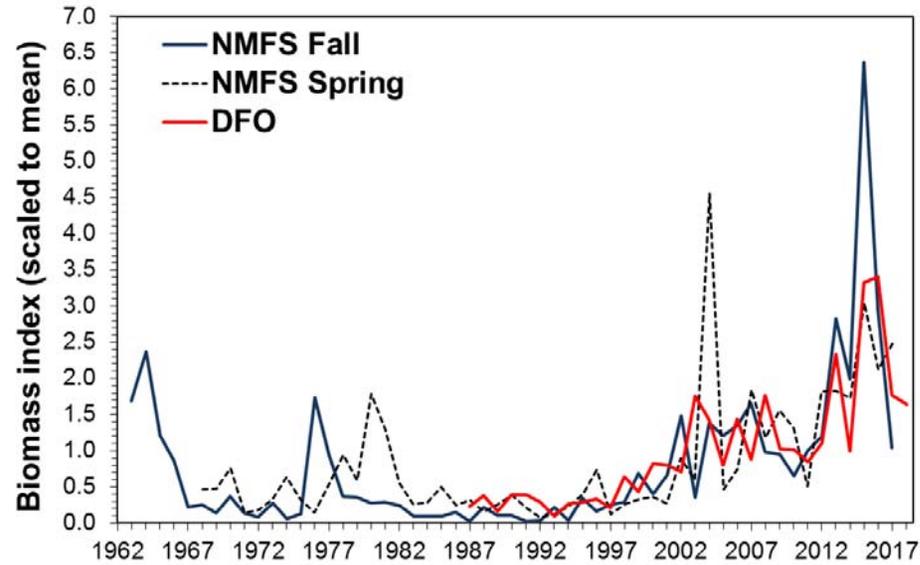
- 2018 DFO Spring Survey distribution is consistent with previous years, with most catches coming from the north-eastern peak of EGB.

Haddock – LFs and CAA



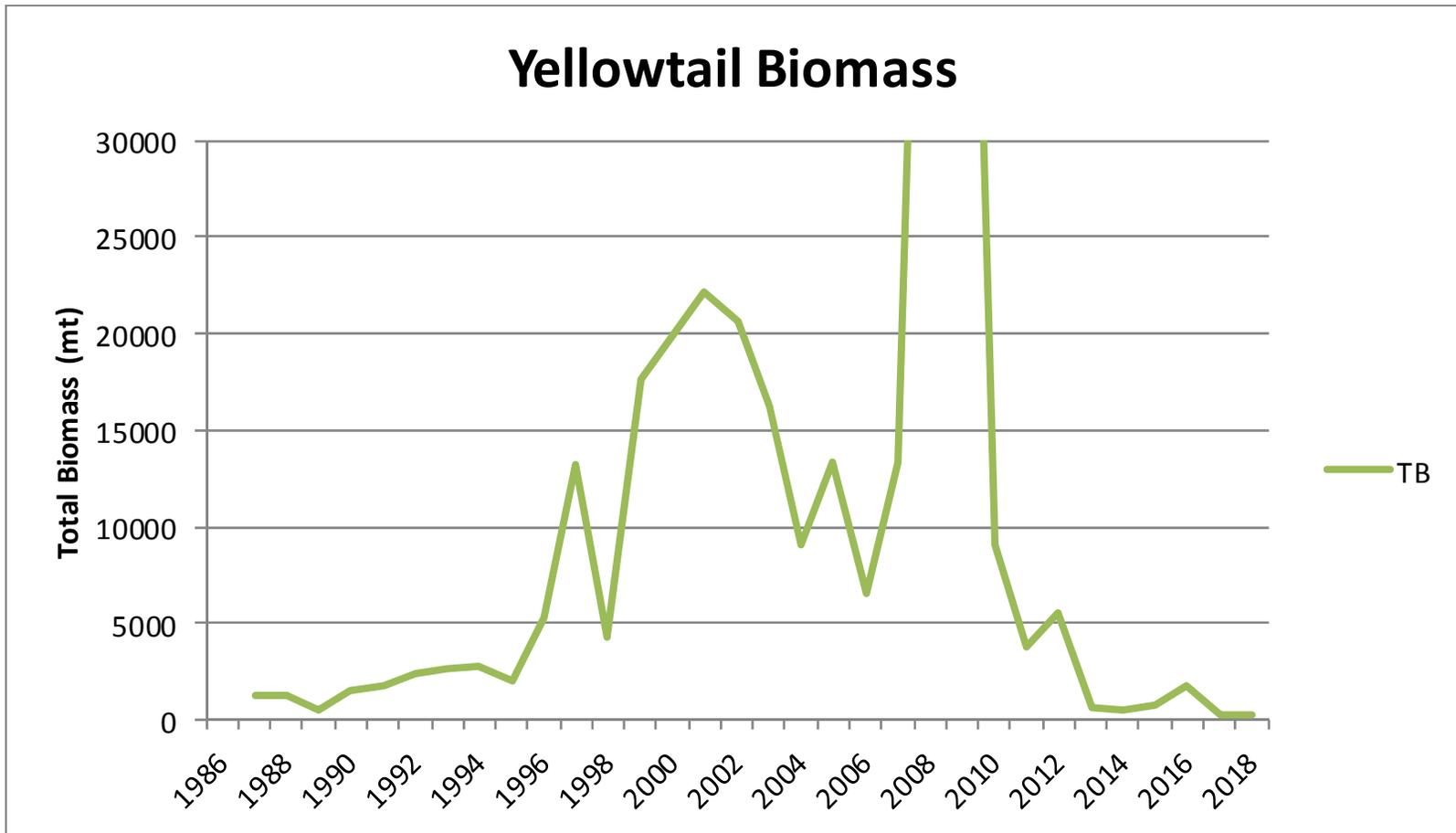
- 2018 DFO Spring Survey shows expected LF and appears to be tracking haddock yearclass signals.

Haddock Biomass



- 2018 DFO Spring Survey biomass index for haddock decreased from 2017, but is considered consistent with the recent trends observed by this survey.

Yellowtail Biomass



- 2018 DFO Spring Survey biomass index for yellowtail is consistent with the 2017 value.

Conclusion

- The data from the 2018 DFO Spring survey show no indication that the change in vessel had a detectable impact on catchability of cod, haddock and yellowtail.