N O T I F I C A T I O N OF PROPOSED RESEARCH CRUISE

GENERAL Part A

1. Name of research ship: Finnur Fridi Cruise no. 1/18

2. Dates of cruise: From: July 19 To: July 21/23, 2018

3. Operating Authority: Greenland Institute of Natural Resources

P.O. Box 570

DK-3900 Nuuk, Greenland

4. Owner (if different from para 3):

Pf Vardin Gardabrekka 4 510 Gøta, Føroyar

5. Particulars of ship:

Name: Finnur Fridi FD-86

Nationality: Faroe Islands

Classification DNV

+1A1,ICE-C Stern Trawlers

+ LMC + UMS

Overall length: 76.43 M
Maximum draught: 15 M
Net tonnage: 840
Gross tons: 2790

Propulsion: Diesel 8000 KW

Fuel type & Capacity: Wartsila Deisel 16V35

Call sign: XPXP

Telefon: +298 610630 & 610632

Email: vardin@vardin.fo

6. Crew: Name of master: Andri Hansen No. of crew: 14

7. Scientific Personnel: Name & address of

Scientist in charge:

Lars Heilmann

Greenland Institute of Natural Resources

P.O. Box 570

DK-3900 Nuuk, Greenland

No. of scientists: 7

- 8. Geographical area in which ship will operate (with reference in latitude and longitude): ICES VIX and NAFO 1F and 1E se map figure 1;
- 9. Brief description of purpose of cruise: a mackerel survey to estimate abundance and biomass of pelagic species and a pilot acustic capelin survey in the East Greenland current close to shore.
- 10. Brief description of intended ports of call: no port of call in Greenland
- 11. Any special logistic requirements at ports of call: No

N O T I F I C A T I O N OF PROPOSED RESEARCH CRUISE

DETAIL Part B

1. Name of research ship: Finnur Fridi Cruise no. 1/18

2. Dates of cruise: From: July 18 To: Aug. 6, 2018

3. Purpose of research and general operational methods The survey adds to the assessment of the effects of commercial fishing on the mackerel stocks in this area. The information surveys is essential to the monitoring from these populations fished and the management of the fisheries. Stratified and transect random stations within the survey area will be sampled by pelagic trawl. The mackerel survey will follow the green line on figure 1. Start with steaming from Torshavn to st.15 in Isl. EEZ, then proceed west to 22, enter Greenlandic EEZ and take the stations going from south to north. The mackerel survey will follow the standard protocol of IESSNS (surface trawling, CTD and WP2 at each station + acoustic measurements along the E-W transects). Finally, the northwestern distribution of blue whiting will be mapped by surveying the Denmark Strait and the continental shelf edge to the Northwest.

The primary objectives are surveys on mackerel stock:

- 1. Collect the data required to establish age structure, estimate population abundance and biomass of mackerel;
- 2. Record numbers caught and collect length and weight data to allow calculation of abundance, biomass, and size structure;
- Collect additional data and biological samples as time permits (e.g., lengths for bycatch, maturity information, other special requests);
- 4. Collect oceanographic data at each fishing station;
- 5. Collect WPS data at each fishing station;
- 6. Collect profiled oceanographic data at stations along previously established standard transect lines.
- 4. Attach chart showing (on an approximate scale) the geographical Area of work, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment

Sample locations for survey areas are located in the attached map.

5. Types of samples required, e.g. Geological/Water/Plankton/Fish/Radioactivity/Isotope

Samples of fish and invertebrate species for length, weight, age and maturity. Oceanographic sampling (e.g. temperature, salinity, oxygen, pH and fluorescence).

and methods by which samples will be obtained (including dredging/coring/drilling

Pelagic trawl, Oceanographic sensor (Seabird CTD) mounted on the trawl gear and Seabird CTD with attached oxygen meter, pH meter and fluorometer deployed at stations using a winch.

6. Details of moored equipment: No moored equipment will be deployed.

- 7. Explosives: None
- 8. Detail and reference of
 - (a) Any relevant previous/future cruises

ICES WGWIDE Report, Section 02 Northeast Atlantic Mackerel

b) Any previously published research data relating to the proposed cruise (Attach separate sheet if necessary).

Nøttestad L, Anthonypillai V, Tangen Ø, Høines Å, Utne KR, Óskarsson GJ, Ólafsdóttir AH, Jónsson SÞ, Jacobsen JA, Smith L, Jansen T, Post S (2016): Cruise report from the International Ecosystem Summer Survey in the Nordic Seas (IESSNS) with M/V "M. Ytterstad", M/V "Vendla", M/V "Tróndur í Gøtu", M/V "Finnur Fríði" and R/V "Árni Friðriksson", 1 - 31 July 2016.

9. Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place with whom previous contact has been made.

Helle Siegstad Greenland Institute of Natural Resources P.O. Box 570 DK-3900 Nuuk, Greenland

10. State:

(a) Whether visits to the ship in port by scientists of the Coastal state concerned will be acceptable.

Yes

(b) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkation/disembarkation.

Seven scientists, five from Greenland and two from EU, will participate in the cruise. Observers are welcome. All arrangements should be made with the Greenland scientist in charge. Embarkation Torshavn, Faroe Island July 18 - disembarkation Torshavn, Faroe Island Aug. 6.

(c) When research data from intended cruise is likely to be made available to the coastal state and if so by what means.

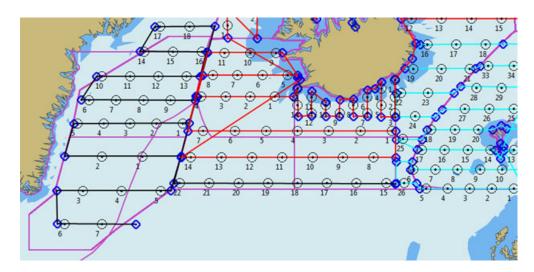
All data and material is collected by Greenlandic Scientists and will be available in Greenland. The data will be presented as a research documents at future ICES WG Wide meetings.

SCIENTIFIC EQUIPMENT

11. Complete the following table

(INDICATE 'YES' OR 'NO')

List of all major Marine Scientific Equipment it is proposed to use and indicate waters in which it will be deployed	Within fishing limits	On con- tinental Shelf	DISTANCE FROM COAST			
			Within 3 NM	Between 3-12 NM	Between 12-50 NM	Between 50-200 NM
Pelagic trawl Mackerel Acoustic survey Blue whiting Seabird CTD sensor	Yes Yes Yes	Yes Yes Yes	no no no	no no no	Yes Yes Yes	Yes Yes Yes



Figur 1. The mackerel survey will follow the green line. Start with steaming from Torshavn to st.15 in Isl. EEZ, then proceed west to 22, enter Greenlandic EEZ and take the stations going from south to north. The mackerel survey will follow the standard protocol of IESSNS (surface trawling, CTD and WP2 at each station + acoustic measurements along the E-W transects). Finally, the north-western distribution of blue whiting will be mapped by surveying the Denmark Strait and the continental shelf edge to the North-west.