

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP
Christian í Grótinum CRUISE NO.
Cruise 1552

2. DATES OF CRUISE From 03.07.2015 To 24.07.2015

3. OPERATING AUTHORITY: Havstovan, PO Box 3051, Nóatún, FO-110 Tórshavn, Faroe Islands
TELEPHONE: +298 353900
TELEFAX: +298 353901
TELEX:

4. OWNER (if different from no. 3): p/f Christian í Grótinum, FO-710 Klaksvík, Faroe Islands

5. PARTICULARS OF SHIP:

| | |
|--|--------------------------|
| Name: | M/S Christian í Grótinum |
| Nationality: | Faroese |
| Overall length: (in metres) | 83,8 m |
| Maximum draught: (in metres) | 9.0 m |
| Net tonnage: | 1285 |
| Propulsion e.g. diesel/steam: | Diesel |
| Call sign: | OW2454 |
| Registration port and number (if registered fishing vessel) | KG 690 |

6. CREW

| | |
|-----------------|----------------------|
| Name of master: | Páll Klein Rasmussen |
| Number of crew: | 12 |

7. SCIENTIFIC PERSONNEL

| | |
|--|--|
| Name and address of scientist in charge: | Jan Arge Jacobsen Havstovan PO Box 3051, Nóatún, FO-110 Tórshavn |
| Tel/telex/fax no.: | +298315092/+2988264 |
| No. of scientists: | 4-7 |

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)
within the approximate area 60°00'N-69°00'N and 14°00'W-5°00'E.

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE
Monitor the mackerel and herring migrations in the Norwegian Sea during summer feeding phase as part of the joint international survey in the Norwegian Sea. Three parties take part in the survey (NO,FA, IC, and GR), coordinated by the "Planning Group of International Pelagic Surveys" (WGIPS) in ICES. The results will be used in the assessment of Mackerel and Norwegian spring spawning herring by the "Working Group on Widely Distributed Stocks (Blue Whiting, NEA Mackerel, horse mackerel, and Norwegian spring spawning Herring)" [WGWIDE] in August 2015.

10. DATES AND NAMES OF INTENDED PORTS OF CALL
None

11. ANY SPECIAL REQUIREMENTS AT PORTS OF CALL
None

NOTIFICATION OF PROPOSED RESEARCH CRUISE

1. PART B: DETAILS

1. NAME OF RESEARCH SHIP Christian í Grótinum CRUISE NO. Cruise 1552
2. DATES OF CRUISE From 03.07.2015 To 24.07.2015

3. a) PURPOSE OF RESEARCH

Monitor the mackerel and herring migrations in the Faroese area and in the Norwegian Sea during summer feeding phase as part of the joint international survey in the Norwegian Sea. Three parties take part in the survey (FA, IC, and NO), coordinated by the "Planning Group on Northeast Atlantic Pelagic Ecosystem Surveys" (PGNAPES) in ICES. The results will be used in the assessment of Mackerel and Norwegian spring spawning herring by the "Working Group on Widely Distributed Stocks (Blue Whiting, NEA Mackerel, horse mackerel, and Norwegian spring spawning Herring)" [WGWIDE] in September 2010.

| Ship | Nation |
|----------------------|-----------|
| Árni Friðriksson | Iceland |
| vessel 1 | Norway |
| vessel 2 | Norway |
| Christian í Grótinum | Faroes |
| vessel 3 | Greenland |

b) GENERAL OPERATIONAL METHODS (including full description of any fish gear, trawl type, mesh size, etc.)

Pelagic trawl (MULTPELT 832 16 m meshes in front to 40 mm meshes in the cod-end) . Standard WP2 plankton net (0.2 mm mesh size). Seabird CTD.

4. ATTACH CHART showing (on an appropriate scale) the geographical area of intended work, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment, areas to be fished

Attached chart is showing the cruise tracks from the 2014 survey in the Norwegian Sea. Trawl stations are taken approximately 60 nm apart along the cruise track. It is planned that Christian í Grótinum will cover some of the Norwegian zone in the southwest area.

5. a) TYPES OF SAMPLES REQUIRED (e.g., geological/water/plankton/fish/radionuclide)
Temperature, salinity, zoo-plankton and fish.

b) METHODS OF OBTAINING SAMPLES (e.g., dredging/coring/drilling/fishing, etc. When using fishing gear, indicate fish stocks being worked, quantity of each species required, and quantity of fish to be retained on board).

Pelagic trawl (mackerel and herring). Occasional samples of up to 100 fish will be retained for later analysis. WP2 net (zoo-plankton) . CTD-probe for temperature and salinity.

6. DETAILS OF MOORED EQUIPMENT – Not applicable

| <u>Dates Laying</u> | <u>Recovery</u> | <u>Description</u> | <u>Depth</u> | <u>Latitude</u> | <u>Longitude</u> |
|---------------------|-----------------|--------------------|--------------|-----------------|------------------|
|---------------------|-----------------|--------------------|--------------|-----------------|------------------|

7. ANY HAZARDOUS MATERIALS (chemicals/explosives/gases/radioactives, etc.)
(Use separate sheet if necessary)
None

a) Type and trade name

b) Chemical content (and formula)

c) IMO IMDG code (reference and UN no.)

d) Quantity and method of storage on board

e) If explosives give dates of detonation

- Method of detonation
- Position of detonation
- Position of detonation
- Frequency of detonation
- Depth of detonation
- Size of explosive charge in kg.

8. DETAIL AND REFERENCE OF

a) Any relevant previous/future cruises

2014

07.07-21.07

Finnur Friði.

b) Any previously published research data relating to the proposed cruise

ICES 2012. Report of the Working Group of International Pelagic Surveys (WGIPS). ICES CM 2012/SSGESST:22

ICES 2014. Report of the Working Group of International Pelagic Surveys (WGIPS). ICES CM 2014/SSGESST:01

9. NAMES AND ADDRESSES OF SCIENTISTS OF THE COASTAL STATE(S) IN WHOSE WATERS THE PROPOSED CRUISE TAKES PLACE WITH WHOM PREVIOUS CONTACT HAS BEEN MADE

Dr Leif Nøttestad, Institute of Marine Research, POBox 1870, N-5024 Bergen, Norway.

10. STATE

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

(Yes/No)

Yes

b) Participation of an observer from the coastal state for any part of the cruise together with the dates and the ports for embarkation and disembarkation

None

c) When research data from the intended cruise are likely to be made available to the coastal state and by what means

In preliminary cruise report two weeks after the cruise, final report within six months from conclusion of cruise. All data will be submitted to the ICES WGIPS and WGWIDE groups and eventually published in international journals and through ICES.

PART C. SCIENTIFIC EQUIPMENT

Complete the following table using a separate page for each coastal state

Coastal state Norway
Port of call None
Dates N/A

Indicate "YES" or "NO"

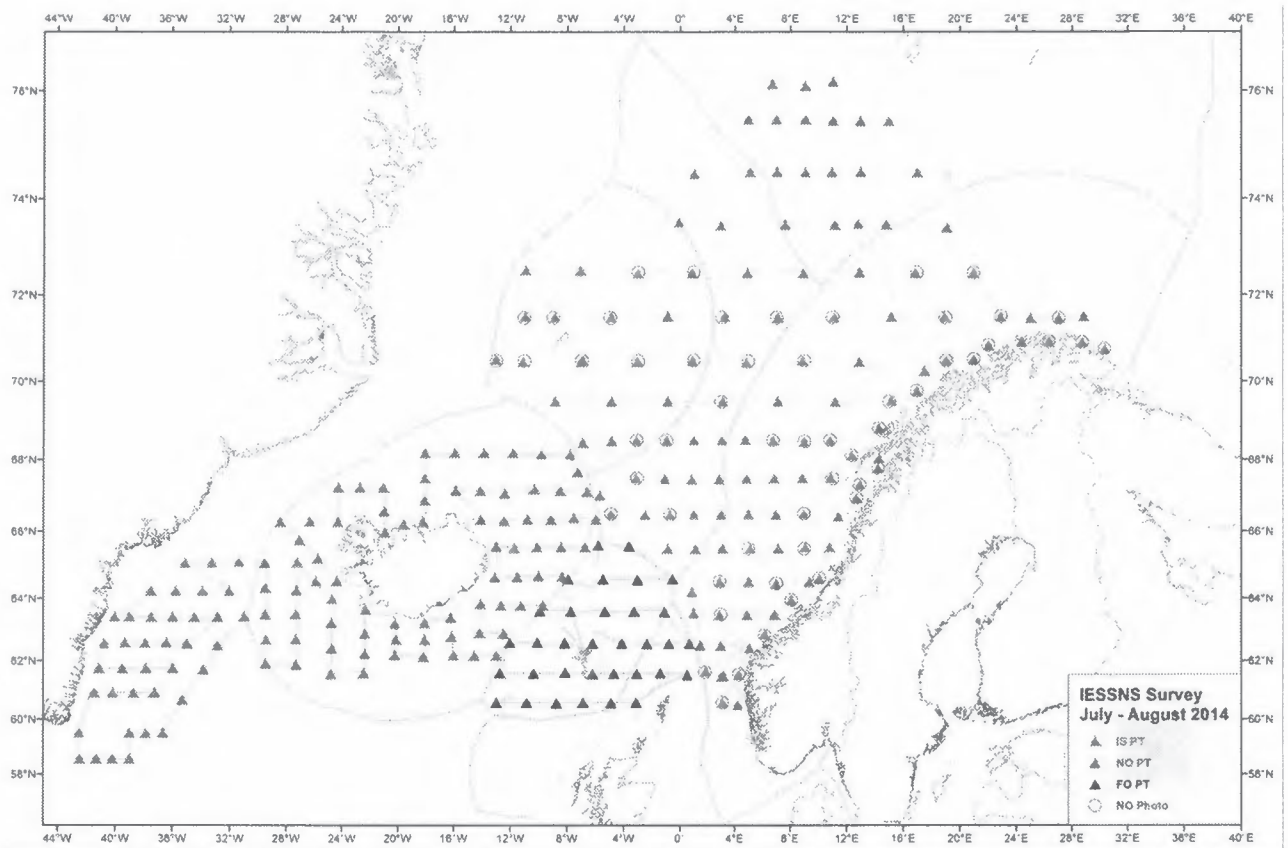
| <u>List scientific work by function</u> e.g. | Water column including sediment sampling of the seabed | Fisheries research within fishing limits | Research concerning the natural resources of the continental shelf or its physical characteristics | DISTANCE FROM COAST | | |
|---|--|--|--|---------------------|-----------------|-------------------|
| | | | | Within 4 nm | Between 4-12 nm | Between 12-200 nm |
| Magnetometry | | | | | | |
| Gravity | | | | | | |
| Diving | | | | | | |
| Seismics | | | | | | |
| Seabed sampling | | | | | | |
| Bathymetry | | | | | | |
| Trawling | Yes | Yes | No | No | No | Yes |
| Echo sounding | Yes | Yes | No | No | No | Yes |
| Water sampling | Yes | Yes | No | No | No | Yes |
| U/W TV | | | | | | |
| Moored instr. | | | | | | |
| Towed instr. | | | | | | |
| Plankton sampling | Yes | Yes | No | No | No | Yes |

Eilif Gaard

 Eilif Gaard
 (On behalf of the Principal Scientist)

Dated 8. June 2015

NB IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED, THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY



Map, showing the survey area, cruise tracks and trawl stations (triangles) for the different participating vessels for the joint International cruise in July-August 2014. It is planned that the Faroese vessel will cover part of Norwegian waters in the southwestern area in July 2015. The coordination is within the ICES WGIPS with the participation of 5 vessels from four parties (NO, FA, IC and GR). The Faroese trawl/water/plankton stations in 2014, M/V “Finnur Friði” are shown as black triangles.

**APPLICATION FOR CONSENT TO CONDUCT MARINE
SCIENTIFIC RESEARCH IN AREAS UNDER NATIONAL
JURISDICTION OF ICELAND**

Date: 08.06.2015

1. General Information

- 1.1 Ship and cruise number:** Christian í Grótinum, Cruise 1552
- 1.2 Sponsoring institution:**
Name: Havstovan
Address: PO Box 3051, Nóatún, FO-110 Tórshavn
Faroe Islands
Name of director: Eilif Gaard
- 1.3 Scientist in charge of project:**
Name: Dr. Jan Arge Jacobsen
Address: Fiskirannsóknarstovan
PO Box 3051, Nóatún
FO-110 Tórshavn
Faroe Islands
Telephone: +298 353900
Telefax: +298 353901
- 1.4 Scientist from Iceland with knowledge of the project:**
Name: Dr. Þorsteinn Sigurðsson
Address: Hafrannsóknarstofnun
P.O.Box 1390, Skúlagata 4
121 Reykjavík, Iceland
- 1.5 Submitting officer:**
Name: Eilif Gaard
Address: Fiskirannsóknarstovan
PO Box 3051, Nóatún
FO-110 Tórshavn
Faroe Islands
Telephone: +298 353900
Telefax: +298 353901

2. Description of Project

2.1 Nature and objectives of the project:

Monitor the mackerel and herring migrations in the Faroese area and in the Norwegian Sea during summer feeding phase. This is the co-ordinated survey for mackerel in the Norwegian Sea in summer 2015 in cooperation with the Icelandic Árni Friðriksson, two chartered Norwegian vessels and one Greenlandic vessel, coordinated by the "Working Group of International Pelagic Surveys" (WGIPS) in ICES. The results will be used in the assessment of Mackerel and Norwegian spring spawning herring by the "Working Group on Widely Distributed Stocks (Blue Whiting, Mackerel, horse mackerel, and Norwegian spring spawning Herring)" [WGWIDE] in August 2015.

| Ship | Nation |
|------------------------------------|-----------|
| Christian í Grótinum, July 2015 | Faroes |
| Árni Friðriksson, July-August 2015 | Iceland |
| Two Norwegian vessels, July 2015 | Norway |
| One Greenlandic vessel, July 2015 | Greenland |

2.2 Relevant previous or future research cruises:

2014 07.07-21.07 Finnur Friði.
Planned to continue in the future.

2.3 Previously published research data relating to the project:

ICES 2010. Report of the Working Group on Northeast Atlantic Pelagic Ecosystem Surveys (WGNAPES). *ICES CM 2010/SSGESST:20*

ICES 2010. Report of the Working Group on Widely Distributed Stocks (WGWIDE). *ICES CM 2010/ACOM:15*

ICES 2011. Report of the Working Group on Northeast Atlantic Pelagic Ecosystem Surveys (WGNAPES). *ICES CM 2011/SSGESST:16*

ICES 2011. Report of the Working Group on Widely Distributed Stocks (WGWIDE). *ICES CM 2011/ACOM:15*

ICES 2012. Report of the Working Group of International Pelagic Surveys (WGIPS). *ICES CM 2012/SSGESST:22*

ICES 2014. Report of the Working Group of International Pelagic Surveys (WGIPS). *ICES CM 2014/SSGESST:01*

3. Methods and Means to be Used

3.1 Particulars of vessel:

Name: MS Christian í Grótinum **Nationality:** Faroese
Owner: P/f Christian í Grótinum, FO-710 Klaksvík, Faroe Islands
Operator: Havstovan
Overall length: 83.8 m **Maximum draught:** 9.0 m
Net tonnage: 1285 **Gross tonnage:** 3031
Propulsion: Diesel
Cruising speed: 12 kn **Maximum speed:** 16 kn
Call sign: OW2454
Registered port and number: KG 690
Method and capability of communication: Radio-telephone
Name of master: Páll Klein Rasmussen
Number of crew: 12
Number of scientists on board: 4-7

3.2 Aircraft or other craft to be used in the project: N/A

3.3 Particulars of methods and scientific instruments:

| Types of samples and data | Methods to be used | Instruments to be used |
|---------------------------|-----------------------|------------------------|
| Fish | Horizontal hauls | Pelagic trawl |
| Temperature/S | Vertical casts 0-500m | CTD probe |
| Plankton | Vertical casts 0-200m | Plankton net, WP2 |

3.4 Indicate whether harmful substances will be used: NO

3.5 Indicate whether drilling will be carried out: NO

3.6 Indicate whether explosives will be used: NO

4. Installations and Equipment

Details of installations and equipment (dates of laying, servicing, recovery; exact locations and depth):

None

5. Geographical Areas

5.1 Indicate geographical areas in which the project is to be conducted (with reference in latitude and longitude):

Biological samples will be taken along cruise transects in the Norwegian Sea. The attached chart shows cruise tracks from last year's survey where trawl samples will be taken approximately 60 nm apart. We expect to cover the Faroese area and the eastern part of the Icelandic area, and possibly the southern part of the international area of the Norwegian Sea (Faroese, Icelandic, and International EEZs), i.e. within the approximate area 60°00'N-69°00'N and 14°00'W-2°00'E (see attached map).

5.2 Attach chart(s) at an appropriate scale showing the geographical areas of the intended work and, as far as practicable, the positions of intended stations, the tracks of survey lines, and the locations of installations and equipment.

Attached

6. Dates

6.1 Expected dates of first entry into and final departure from the research area of the research vessel:

The ship is expected to be in Icelandic waters in the latter half of the survey period, depending on the exact cruise plan and weather conditions:

Entry: 08.07.2015

Exit: 23.07.2015

6.2 Indicate if multiple entry is expected:

Yes

7. Port Calls

7.1 Dates and names of intended ports of call in Iceland:

No intended port call

7.2 Any special logistical requirements at ports of call:

N/A

7.3 Name/address/telephone of shipping agent (if available):

N/A

8. Participation

8.1 Extent to which Iceland will be enabled to participate or to be represented in the research project:

Observers are welcome aboard.

8.2 Proposed dates and ports for embarkation/disembarkation:

Tórshavn, Faroe Islands at beginning and end of cruise.

9. Access to Data, Samples and Research Results

9.1 Expected dates of submission to Iceland of preliminary reports which should include the expected dates of submission of the final results:

Preliminary report two weeks after the cruise, final report within six months from conclusion of cruise.

9.2 Proposed means for access by Iceland to data and samples:

By cruise report.

9.3 Proposed means to provide Iceland with assessment of data, samples and research results or provide assistance in their assessment or interpretation:

All data submitted to ICES and by cruise report.

9.4 Proposed means of making research results internationally available:

In published journals and through ICES Working Group reports (WGWIDE).

10. Scientific Equipment

Coastal State Iceland

Port Call No

Indicate "Yes" or "No"

Dates N/A

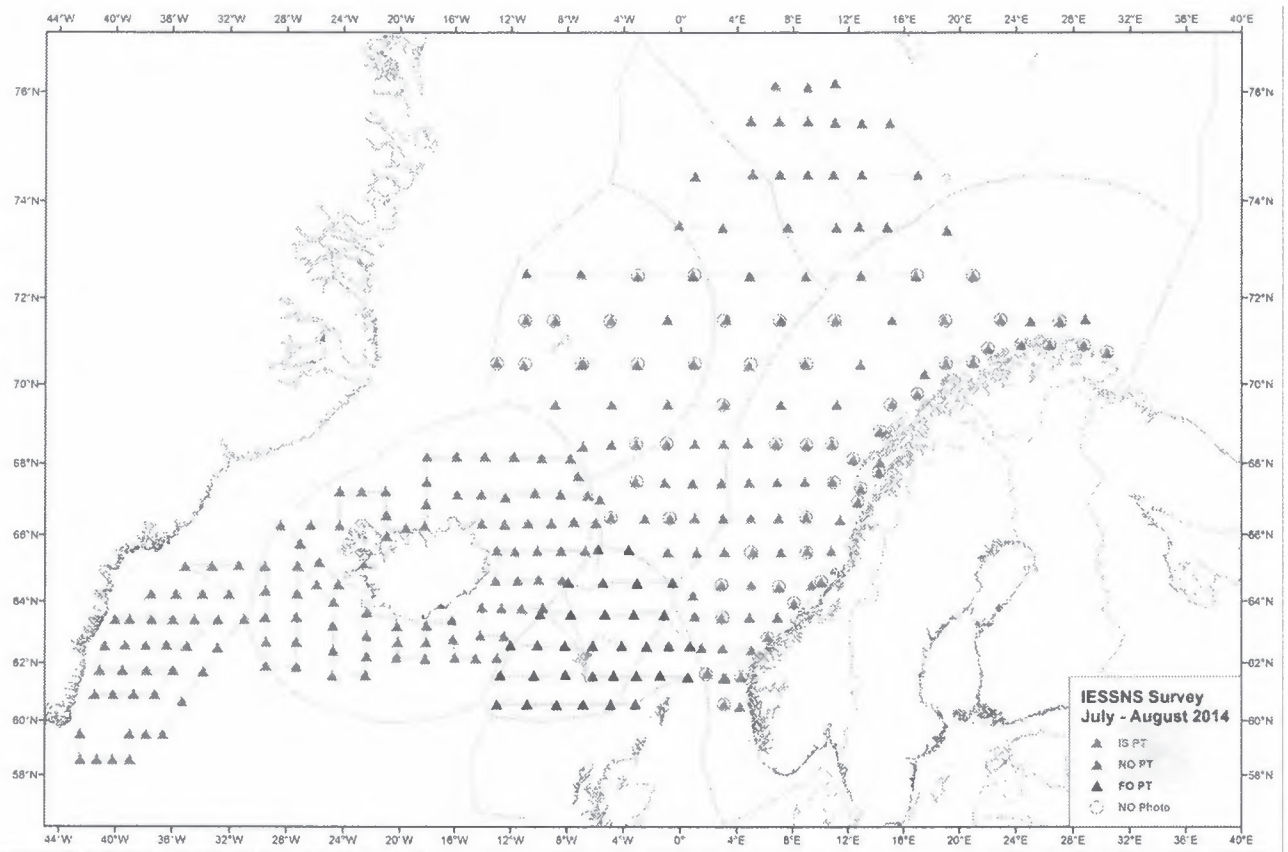
| <u>LIST SCIENTIFIC WORK BY FUNCTION</u> eg: magnetometry, gravity, diving, seismics, bathymetry, sea bed sampling, trawling, echo sounding, water sampling, u/w TV, moored instruments, towed instruments | Water column including sediment sampling of the sea bed | Fisheries research within fishing limits | Research concerning the natural resources of the Continental Shelf or its physical characteristics | Distance from coast within 12 nms | Distance from coast between 12-200 nm | (Continental Shelf work only) Beyond 200 nm but within the Continental margin |
|--|---|--|--|-----------------------------------|---------------------------------------|--|
| Water sampling | Yes | Yes | No | No | Yes | No |
| Plankton sampling | Yes | Yes | No | No | Yes | No |
| Trawl sampling | Yes | Yes | No | No | Yes | No |
| Echo sounding | Yes | Yes | No | No | Yes | No |

Eilif Gaard

Eilif Gaard

Dated 8. June 2015

NB: IF ANY DETAILS ARE MATERIALLY CHANGED REGARDING DATES/AREA OF OPERATION AFTER THIS FORM HAS BEEN SUBMITTED THE COASTAL STATE AUTHORITIES MUST BE NOTIFIED IMMEDIATELY



Map, showing the survey area, cruise tracks and trawl stations (triangles) for the different participating vessels for the joint International cruise in July-August 2014. It is planned that the Faroese vessel will cover the easternmost part of Icelandic waters in July 2015. The coordination is within the ICES WGIPS with the participation of 5 vessels from four parties (NO, FA, IC and GR). The Faroese trawl/water/plankton stations in 2014, M/V “Finnur Fríði” are shown as black triangles.