

NOTIFICATION OF PROPOSED RESEARCH CRUISE

Part A: GENERAL

1. Name of research ship: **RV Pelagia** Cruise number: **64PE475**

2. Cruise dates: 15-24 September 2020

3a. Operating authority: NIOZ Royal Netherlands Institute for Sea Research
Telephone: (+31) (0)222-369300
Telefax: (+31) (0)222-319674

3b. Operating agent: NIOZ Royal Netherlands Institute for Sea Research
Telephone: (+31) (0)222-369300
Telefax: (+31) (0)222-319674

4. Owner: NIOZ Royal Netherlands Institute for Sea Research

5. Particulars of ship:

name: Pelagia
nationality: Dutch
overall length: 66.00 meters
maximum draught: 4.00 meters
nett tonnage: 1553 NRT
propulsion: 2 diesel electric Elliot White Gill
Bow Truster
call sign: PGRO
IMO nr: 9001461

6. Crew: name of master: E. A. Puijman / L. Bliemer
number of crew: 12

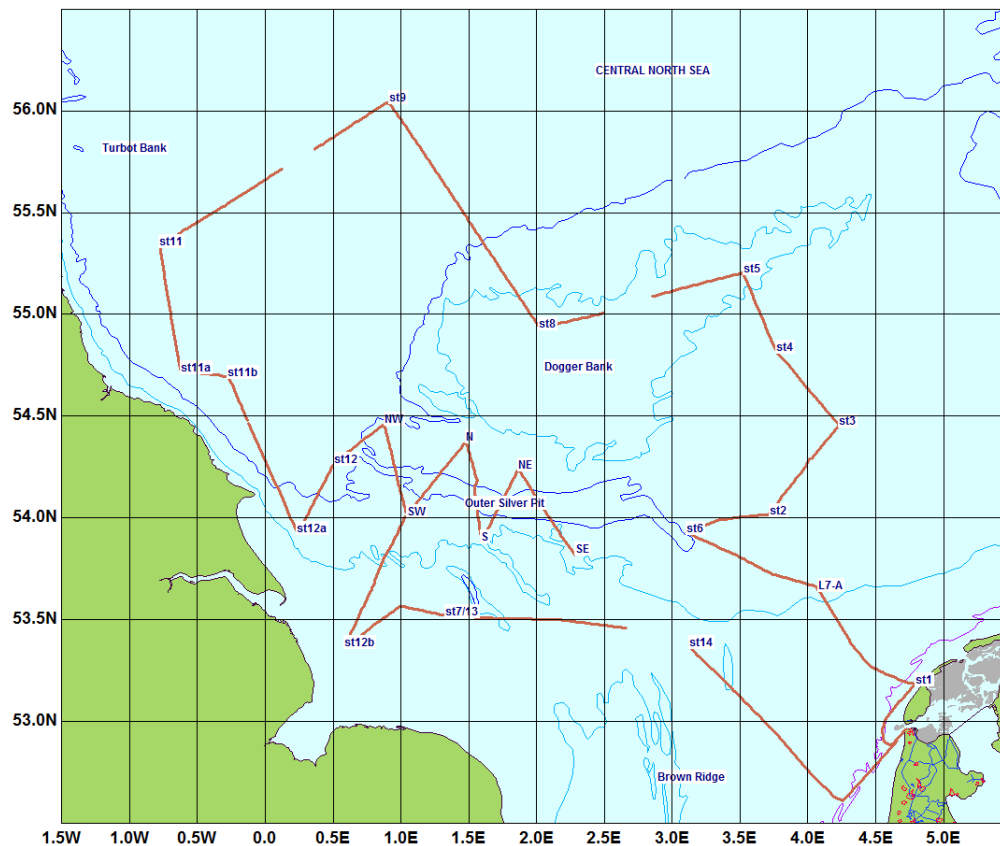
7. Chief scientist: name: CJ Camphuijsen
addresses: NIOZ-COS, P.O. Box 59, 1790 AB Den Burg
Texel, The Netherlands
telephone: + 31 6 30171836 / + 31 222 369488
e-mail address: kees.camphuysen@nioz.nl

**8. Geographical area in which the ship will operate:
(with reference in latitude and longitude)**

Northern sector of Southern Bight & southern sector of Central North Sea → Dogger Bank (UK-NL), North East Bank (UK), Whitby Ground (UK), Outer Silver Pit (UK), off Flamborough Head (well offshore, UK) & Humber mouth (well offshore, UK), north of Brown Ridge (UK-NL), Frisian Front (NL), Texel (NL), mainland Noord-Holland (NL) as mapped, within

52.5°N-56.1°N, 0.78°W-4.75°E

Approximate (daytime) route



Orange line: intended route for daily observations

9. Brief description of purpose of cruise:

Visual observations of seabirds and marine mammals during steaming
CTD samples at regular stations
Water samples from CTD for eDNA (environmental DNA), viruses and bacteria

10. Names and dates of intended ports of call:

Texel (The Netherlands), in and out

11. Any special logistic requirements at ports of call:

None in UK

Part B: DETAIL

1. Name of research ship: RV Pelagia

2. Cruise dates: 15-24 September 2020

3. Purpose of research and general operational methods:

Studies of charismatic megafauna (cetaceans, seals, seabirds) through visual observations while steaming

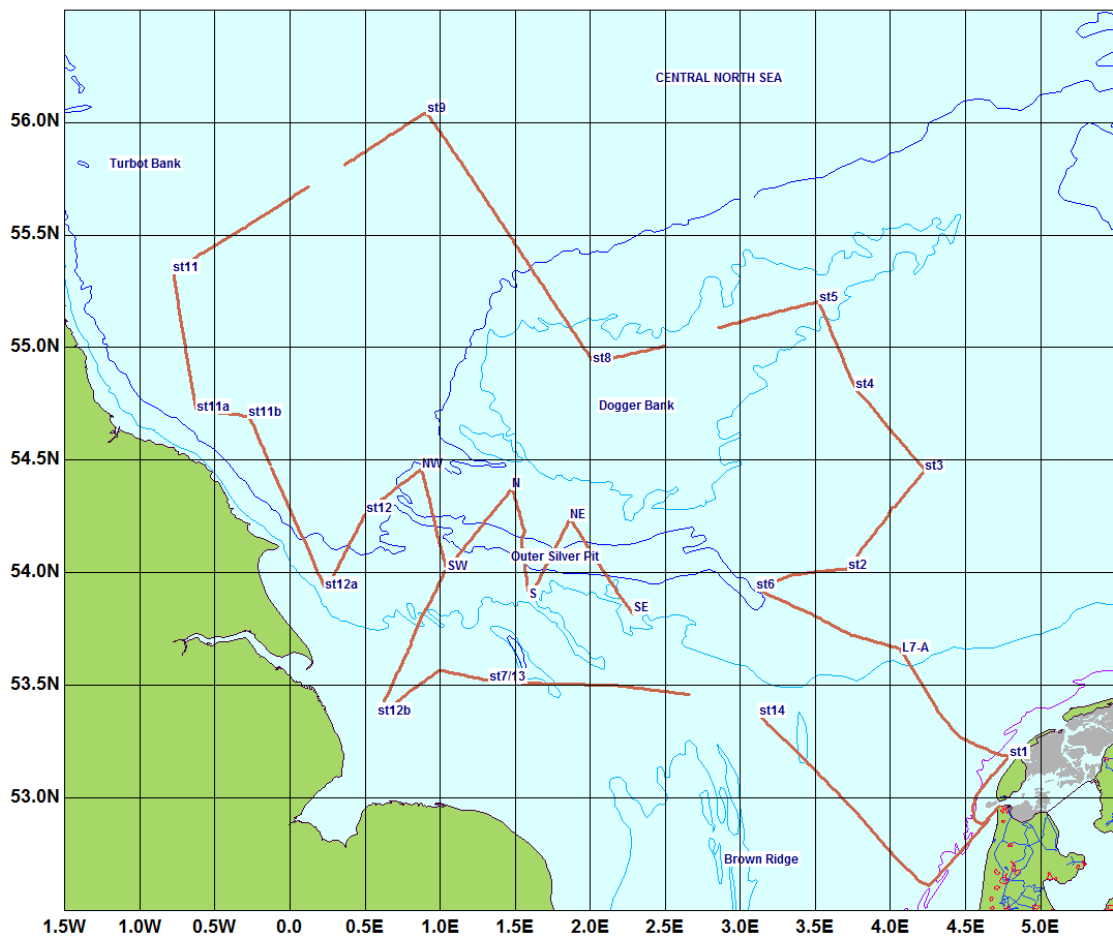
Studies of water conditions (stratification, salinity, temperature and eDNA (i.e. environmental DNA of free floating matter) during water sampling at stations

NO fishing

NO bottom (sediment) sampling

4. Attach chart showing (on an appropriate scale) the geographical area of the intended work, positions of intended stations/hydrographic sections:

Approximate (daytime) route



Orange line: intended route for daily observations

Stations for water sampling are scheduled at every corner in the route (i.e. ~23 stations)

5a. Type of samples required:

Water samples only by using CTD

5b. Methods by which samples will be obtained (including dredge/core/drill techniques):

Lowering CTD from crane while stationary from close to the bottom to the sea surface

6. Details of moored equipment:

None

7. Explosives:

None

8. Detail and reference of:

a. Any relevant previous/future cruises:

Same cruise format in 2019 (twice), will be repeated bi-annually in 2021-2024

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

None

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:

None

10. State:

a. Whether visits to the ship in port by scientist of the coastal state concerned will be acceptable: **welcome**

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: **welcome**

c. When research data from intended cruise is likely to be made available to the coastal state and if so, by what means: **cruise report followed by peer-reviewed publications**

SCIENTIFIC EQUIPMENT

11. Complete the following table - include a separate copy for each coastal state
(indicate "Yes" or "No" if applicable)

| Marine scientific equipment used | water depth (m) | fisheries research | distance of research to coast in nautical miles | | | |
|----------------------------------|-----------------|--------------------|---|------|-------|--------|
| | | | < 3 | 3-12 | 12-50 | 50-200 |
| CTD sampler | Variable | None | No | Yes | Yes | Yes |
| Binoculars | - | Yes* | No | Yes | Yes | Yes |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

*Presence absence data of (active) fishing vessels will be recorded to be analysed in association with observed seabirds

List of 23 intended sampling stations during Pelagia cruise

| Station | Longitude | Latitude |
|---------|------------|------------|
| st1 | 4.79590°E | 53.18574°N |
| L7-A | 4.08000°E | 53.65000°N |
| st6 | 3.10588°E | 53.92712°N |
| st2 | 3.71765°E | 54.01673°N |
| st3 | 4.23201°E | 54.45744°N |
| st4 | 3.76638°E | 54.81697°N |
| st5 | 3.52611°E | 55.20340°N |
| st8 | 2.01956°E | 54.93361°N |
| st9 | 0.91337°E | 56.04254°N |
| st11 | -0.78187°W | 55.33602°N |
| st11a | -0.62175°W | 54.71943°N |
| st11b | -0.27340°W | 54.69672°N |
| st12a | 0.23427°E | 53.92985°N |
| st12 | 0.50665°E | 54.26745°N |
| NW | 0.8845°E | 54.4649°N |
| SW | 1.04659°E | 54.01326°N |
| N | 1.48237°E | 54.37755°N |
| S | 1.59398°E | 53.88515°N |
| NE | 1.86745°E | 54.24007°N |
| SE | 2.28739°E | 53.82717°N |
| st12b | 0.58697°E | 53.36948°N |
| st7/13 | 1.33080°E | 53.52156°N |
| st14 | 3.12631°E | 53.36677°N |