

NOTIFICATION OF PROPOSED RESEARCH CRUISE

Part A: GENERAL

1. Name of research ship: **RV Pelagia** Cruise number: **64PE340**

2. Cruise dates: 17 June - 4 July 2011

3.

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

6. Crew: name of master: J.C. Ellen / I. Burkhard
number of crew: 11

7. Chief scientist: name: Henk de Haas
addresses: Royal NIOZ
P.O. Box 59
1790 AB Den Burg
The Netherlands
telephone: (+31) (0)222 369402
telefax: (+31) (0)222 319674
e-mail address: haas@nioz.nl

Part B: DETAIL

1. Name of research ship: RV Pelagia

2. Cruise dates: 17 June - 4 July 2011

3. Purpose of research and general operational methods:

This proposed cruise will be the start of a multi-year North Sea monitoring program carried out by the Royal Netherlands Institute for Sea Research (NIOZ). Stations that have been visited several times in the past by Dutch scientists will be visited again in the years to come, but this time with regular 1 year intervals to study (possible) changes in benthic biology, the comparison of primary and secondary production, phytoplankton composition and zooplankton biomass and methane seepage over time. The above will be studied in relation to climate change and human activities in the North Sea.

Bentic biology sampling will be carried out by means of box coring, 3 m beam trawling, deep digging dredge, seabed video imaging and CTD casts.

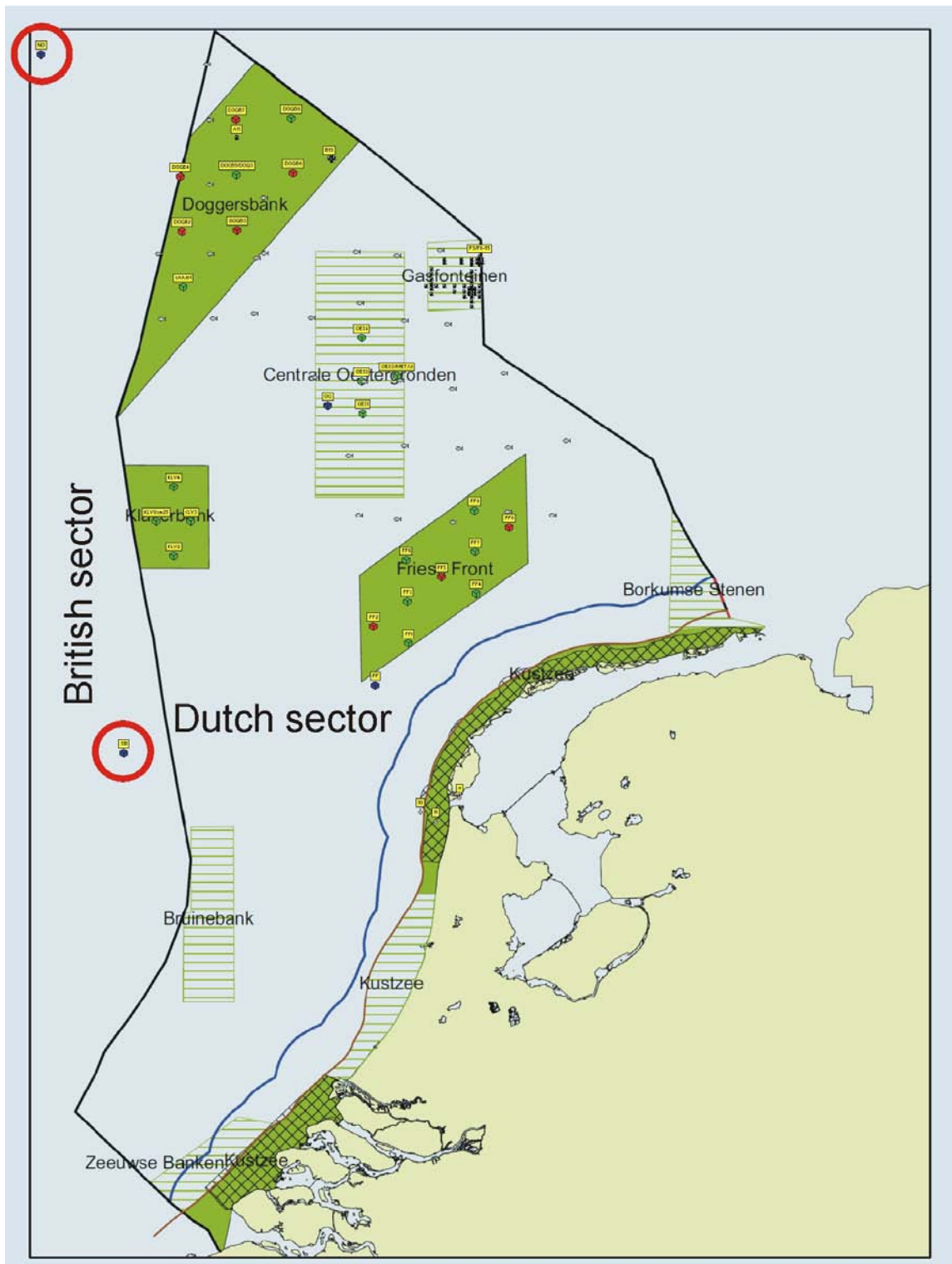
Geological activities will include multibeam mapping, penetrating echosounder and seismic surveys, box- and gravity coring.

Plankton studies will be limited to water sampling, including CTD, and vertical plankton net hauls.

At the two stations in the British sector only plankton studies will be carried out, thus operational methods will be limited to Rosette sampler casts including CTD and vertical plankton net hauls.

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

The map below shows the intended stations and survey areas. The stations in the British sector are highlighted by means of a red circle.



5

5a. Type of samples required:

- Water (including water characteristics)
- Plankton
- Sediment
- Benthic biota
- Sediment acoustic survey
- Water column acoustic survey

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

Box corer
Gravity corer
Penetrating echo sounder
Seismics (air gun)
Deep digging dredge
CTD (including rosette sampler)
Vertical plankton net
3 m beam trawl
Multibeam echo sounder

In the British sector sampling will be limited to the use of:
CTD (including rosette sampler)
Vertical plankton net

6. Details of moored equipment:

None

7. Explosives:

None

8. Detail and reference of:

a. Any relevant previous/future cruises:

The stations in the British sector were visited in 2000/2001/2002/2005/2007/2008 and will be visited in 2011/2012/2013/2014/2015

b. Any previous published research data relating to the proposed cruise:

(Attach separate sheet if necessary)

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:

Dr. Suzanne Painting CEFAS Pakefield Road Lowestoft UK

10. State:

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

The ship will not visit a British port

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:

Yes

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

Shortly after the cruise in a cruise report

COASTAL STATE: United Kingdom

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 (+water)	<70	No			Yes	Yes
Vertical plankton net	<70	No			Yes	Yes

References

No additional references