

A.8. Format for notification of proposed monitoring and research cruises

NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENERAL

Part A

1. Name of research ship R/V ZIRFAEA

Cruise No. *No number assigned*

2. Dates of cruises Between 1 MARCH, 2007 and med. APRIL, 2007

3. Operating authority
Directorate General for Public Works and Water Management
North Sea Directorate
PO Box 5807
2280 HV Rijswijk
The Netherlands

Telephone +31 – 70 – 3366600
Telefax +31 – 70 – 3900691

4. Owner (if different from para 3)

5. Particulars of ship:

Name R/V ZIRFAEA
Nationality Dutch
Overall length metres 63.00 m
Maximum draught metres 3.85 m
Net tonnage 378 NT
Propulsion Diesel-electric
Call sign PBZV

6. Crew

Name of master Capt. Pronk
No. of crew 13

7. Scientific personnel

Name and address of scientist in charge
Mr. Timen Top
RIKZ
PO Box 207
9750 AE Haren
The Netherlands
+31-50 533 1342
Telefax +31-50 534 0772
No. of scientists: 3

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

In boxes with the following coordinates:

Tees estuary and coastal zone:	Coordinates SW corner 54°36'00.00" N 01°10'47.00" W	Coordinates NE corner 54°44'00.00" N 00°53'52.00" W
Humber estuary and coastal zone:	Coordinates SW corner 53°12'00.00" N 00°30'00.00" W	Coordinates NE corner 54°18'02.33" N 00°33'11.43" E
Thames estuary and coastal zone	Coordinates SW corner 51°23'54.62" N 00°00'00.00" E	Coordinates NE corner 52°36'13.00" N 02°00'31.00" E

9. Brief description of purpose of cruise

Harmonised (i.e., methods agreed upon by participating countries/institutes) sampling of bottom sediments, suspended solids and water. Determination of contaminants in these samples, according to WFD guidelines. Transport of contaminants will be determined using models, data from cruise in input for these models.

10. Dates and names of intended ports of call

None

11. Any special logistic requirements at ports of call

None

NOTIFICATION OF PROPOSED RESEARCH CRUISE

DETAIL Part B

1. Name of research ship: R/V ZIRFAEA

Cruise No. *No number assigned*

2. Dates of cruises Between 1 MARCH, 2007 and med. APRIL, 2007

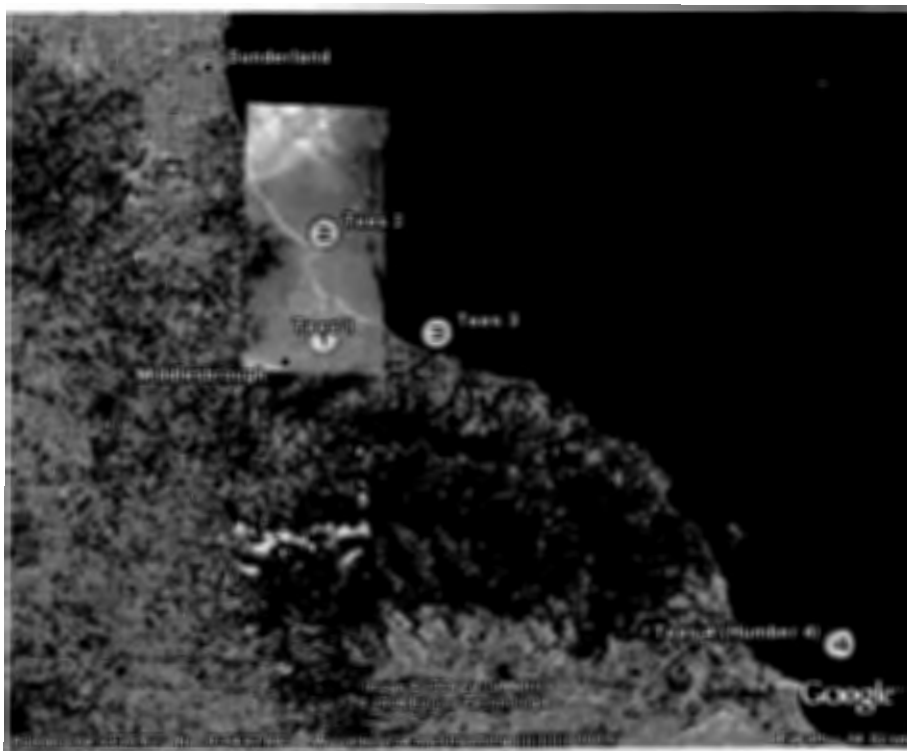
3. Purpose of research and general operational methods

Carry out workpackage three (WP3) of the EU/Interreg sponsored project Harbasins (www.harbasins.org). Sampling of bottom sediments, suspended solids and water. Determination of contaminants in these samples, according to WFD guidelines.

4. Attach chart showing (on an appropriate scale) the geographical area work, positions of intended stations, tracks of survey lines, positions of moored/seabed equipment

Proposed stations at the English east coast, the Tees, Humber and Thames estuaries, including coordinates and sampled compartment.

Proposed stations, Tees estuary and coastal zone.

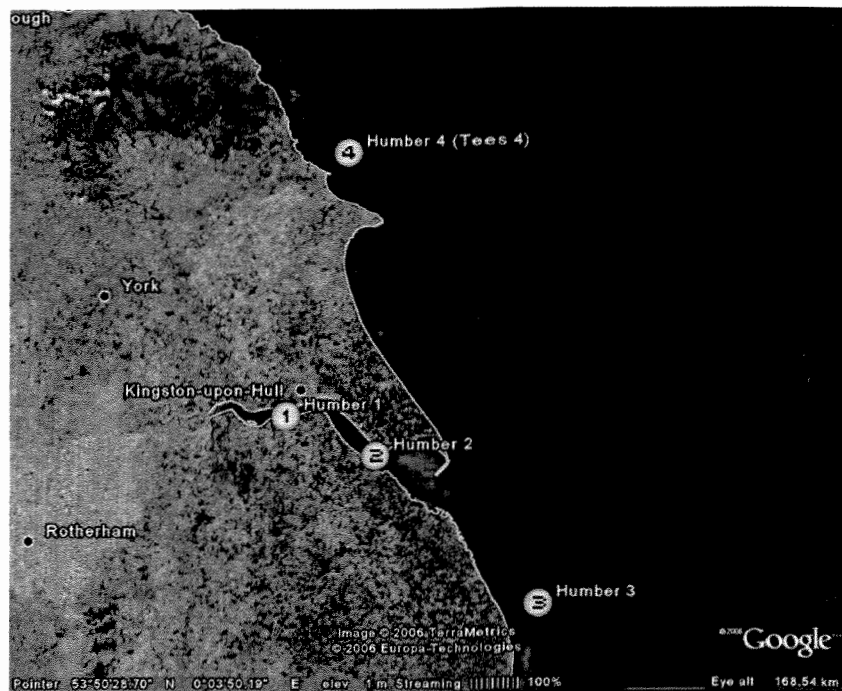


Station	Coordinates	Compartment	Remarks
Tees 1	54°36' 12.50"N 01°09' 54.32"W	Sed, Tw (SPM, Cw)	Nearby Teesport

Tees 2	54°43' 11.93"N 01°09' 59.91"W	Sed, Tw (SPM, Cw)	
Tees 3	54°36' 38.58"N 00°57' 03.82"W	Sed, Tw (SPM, Cw)	
Tees 4	54°15' 58.23"N 00°12' 15.15"W	Sed, Tw (SPM, Cw)	Same location as 'Humber 4'

Sed: Sediment
 SPM: Suspended particulate matter
 Tw: 'Total' water
 Cw: Water (centrifuged)

Proposed stations, Humber estuary and coastal zone.



Station	Coordinates	Compartment	Remarks
Humber 1	53°42' 17.64"N 00°25' 46.79"W	Sed, Tw (SPM, Cw)	Kingston-upon-Hull
Humber 2	53°37' 11.65"N 00°06' 36.58"W	Sed, Tw (SPM, Cw)	Grimsby
Humber 3	53°18' 00.73"N 00°26' 25.97"E	Sed, Tw (SPM, Cw)	Humber coast 3
Humber 4	54°15' 58.23"N 00°12' 15.15"W	Sed, Tw (SPM, Cw)	Same location as 'Tees 4'

Sed: Sediment
 SPM: Suspended particulate

matter
 Tw: 'Total' water
 Cw: Water (centrifuged)

Proposed stations, Humber estuary and coastal zone



Station	Coordinates	Compartment	Remarks
Thames 1	51°27' 23.99"N 00°17' 00.29"E	Sed, Tw (SPM, Cw)	London
Thames 2	51°30' 00.74"N 00°34' 00.56"E	Sed, Tw (SPM, Cw)	Southend
Thames 3	51°25' 39.98"N 01°30' 14.96"E	Sed, Tw (SPM, Cw)	Margate
Thames 4	52°29' 31.32"N 01°55' 15.67"E	Sed, Tw (SPM, Cw)	Lowestoft

Sed: Sediment
 SPM: Suspended particulate
 matter
 Tw: 'Total' water
 Cw: Water (centrifuged)

5. Types of samples required, e.g. geological/water/plankton/fish/radioactivity/isotope ...
 and methods by which samples will be obtained (including dredging/coring/drilling) .

Bottom sediments will be sampled with box cores, suspended solids with a high throughput centrifuge, total water with buckets or from the centrifuge input liner, centrifuged water from the centrifuge's outlet liner.

6. Details of moored equipment: **NONE**

Dates

Laying Recovery Description Latitude Longitude

7. Explosives: **NONE**

- (a) Type and trade name
- (b) Chemical content
- (c) Depth and trade class and storage
- (d) Size
- (e) Depth of detonation
- (f) Frequency of detonation
- (g) Position in latitude and longitude
- (h) Dates of detonation

8. Detail and reference of

(a) Any relevant previous/future cruises

No additional cruises are planned by the Harbasins project. Previous cruises that have relevance to this project are those that have resulted in publication of the data below, under (b).

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

(Attach separate sheet if necessary)

Roose, P, M. Raemaekers, K. Cooreman and U.A.Th. Brinkman (2005). Polychlorinated biphenyls in marine sediments from the southern North Sea and Scheldt estuary: a ten-year study of concentrations, patterns and trends. *J. Environ. Monit.* 7, 701-709.

Klamer, J.C. and L. Fomsgaard (1993). Geographical distribution of chlorinated biphenyls and polycyclic aromatic hydrocarbons in surface sediments from the Humber plume, North Sea. *Mar. Pollut. Bull.* 26(4), 201-206.

Thomas, K.V., J. Balaam, N. Barnard, R. Dyer, C. Jones, J. Lavender, M. McHugh (2002). Characterisation of potentially genotoxic compounds in sediments collected from United Kingdom estuaries. *Chemosphere* 49, 247-258.

9. Names and addresses of such scientists with whom previous contact has been made in the coastal state in which the waters where the proposed cruise is to take place are

Prof. Michael Elliot
Institute of Estuarine and Coastal Studies (IECS)
University of Hull
Hull HU6 7RX
United Kingdom
email: Mike.Elliott@hull.ac.uk

Dr. John Thain
CEFAS
Cefas Burnham Laboratory
Remembrance Avenue
Burnham-on-Crouch
Essex CM0 8HA
United Kingdom
email: john.thain@cefas.co.uk

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

yes

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

The results from this study will be presented and discussed at a workshop in fall 2007. Publication will take place both within the Harbasins framework and possibly in a scientific journal.

SCIENTIFIC EQUIPMENT

11. Complete the following table - SEPARATE COPY FOR EACH COASTAL STATE
(indicate "YES" or "NO")

List of all major Marine Scientific Equipment proposed to be used and indicate waters in which it will be deployed	Within fishing limits	On continental shelf	DISTANCE FROM / COAST			
			Within 3 NM	Between 3-12 NM	Between 12-50 NM	Between 50-200 NM
Box core	NO	NO	YES	YES	NO	NO
High-throughput centrifuge	NO	NO	YES	YES	NO	NO



Drs drs. P.R.Post,
Verkeersadviseur (Hoofd DES/TO)
Ministerie van Buitenlandse Zaken
Postbus 20061
2500 EB Den Haag

Contact	Telephone
Hans Klamer	+31-50-5331357
Date	Enclosure(s)
29 November 2006	1
Our reference	Your reference
HARBASINS WP3	-
Subject	
Scientific cruise - Harbasins	

Dear ,

The project Harbasins is co-funded by ERDF through the Interreg IIIB North Sea Region program. It aims to establish a proposal for an overall coordinated management and monitoring of the North Sea coastal waters and estuaries, within the framework of the relevant European Directives, particular the Water Framework Directive (WFD), in relation to integrated coastal management. To achieve this objective, several work packages have been defined. Work package 3 (WP3), has the following goals:

- Field test Water Framework Directive targets for compounds;
- The assessment of priority and other river basin or nationally relevant compounds;
- To qualify and quantify transport of priority compounds between river basins through the 12 mile North Sea Coastal Zone by residual currents;
- Identify risks of responsibility shifting of reaching the WFD targets between river basin managers by trans-basin transport of priority compounds.

One of the tasks that has to be fulfilled by WP3 is to sample several North Sea estuaries and coastal zones and to analyse the samples (sediment, suspended matter, and water) for the presence of WFD priority compounds.

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E-mail j.c.klamer@rikz.rws.minvenw.nl

Please find enclosed a cruise notification form, which needs further handling by your office. This form is dedicated to the part of the planned cruise that will sample English waters. More specifically, this part of the cruise will sample the estuaries of the Tees, Humber and Thames, and the nearby marine coastal zones. The attached form includes the necessary details relevant to the sampling cruise like information on the research vessel, the sample equipment and the proposed sampling stations.

On behalf of the WP3 project team,

Yours sincerely,

Hans JC Klamer
Project manager, Harbasins WP3

