NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART A: GENERAL

1. NAME OF RESEARCH SHIP
RV POLARSTERN

CRUISE NO.
ARK XXIV/3

2. DATES OF CRUISE
From **05 Aug 2009**
To **25 Sept 2009**

3. OPERATING AUTHORITY:
Stiftung Alfred-Wegener-Institut für Polar-und Meeresforschung
Postfach 12 01 61
D-27515 Bremerhaven

TELEPHONE: **0049 471 4831-0**

TELEFAX: **0049 471 4831 1355**

TELEX: **238 695 polar d**

4. OWNER (if different from no. 3)

5. PARTICULARS OF SHIP:

Name:	**POLARSTERN**
Nationality:	**GERMAN**
Overall length: (in metres)	**117,91**
Maximum draught: (in metres)	**11,21**
Net tonnage:	**3.532,30**
Propulsion e.g. diesel/steam:	**Diesel**
Call sign:	**DBLK**
Registration port and number (if registered fishing vessel)	

6. CREW
Name of master: **Capt. Stefan Schwarze**

Number of crew: **44**

7. SCIENTIFIC PERSONNEL
Name and address of scientist in charge: **Dr. Wilfried Jokat**
Alfred-Wegener-Institut für Polar- und Meeresforschung
D-27515 Bremerhaven
Tel/telex/fax no.: **+49-471-4831-1211/ ... /+49-471-4831-1149**
No. of scientists: **49**

8. GEOGRAPHICAL AREA IN WHICH SHIP WILL OPERATE (with reference to latitude and longitude)
Transit through the Icelandic Exclusive Economic Zone

9. BRIEF DESCRIPTION OF PURPOSE OF CRUISE
The cruise will start in Reykjavik. Here, all ship sensors like gravity, magnetics will be switched on. Then the ship will transit towards North East Greenland, without conducting any station work in the Icelandic EEZ. The shipborne sensors (Gravity, magnetics, bathymetry, Parasound) will run during this transit to gather continuously data.

10. DATES AND NAMES OF INTENDED PORTS OF CALL
The ship will be in the port of Reykjavik from 03. to 05. August 2009

ANY SPECIAL REQUIREMENTS AT PORTS OF CALL
Change of personnel, logistics.

NOTIFICATION OF PROPOSED RESEARCH CRUISE

PART B: DETAILS

1. NAME OF RESEARCH SHIP
RV POLARSTERN

CRUISE NO.
ARK XXIV/3

2. DATES OF CRUISE From **05 Aug 2009** To **25 Sept 2009**

3. a) PURPOSE OF RESEARCH
Bathymetry: Gather new data during the transit through the Icelandic EEZ
Marine Geophysics: Acquire magnetic and gravity data during transit
Meteorology: To study the air-sea-ice interaction in the lower atmosphere
Water sampling: To study changes in the composition of the surface water

b) GENERAL OPERATIONAL METHODS (including full description of any fish gear, trawl type, mesh size, etc.)
To record data by acoustic devices (e.g. Hydrosweep, Parasound)
To record gravity and magnetic data
To collect air, snow, and water samples from devices mounted on the vessel

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
No chart attached, since the exact transit route is not known.

5. a) TYPES OF SAMPLES REQUIRED (e.g., geological/water/plankton/fish/radionuclide)
Air, snow, ice and water samples, temperature, salinity, and current measurements

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).
Hydrosweep, Echosounder 3.5 KHz
Gravity and magnetic data
Continuous sampling of water and ambient air.

6. DETAILS OF MOORINGS
none

Dates Laying	Recovery	Description	Depth	Latitude	Longitude

7. ANY HAZARDOUS MATERIALS (chemicals/explosives/gases/radioactives, etc.)
(Use separate sheet if necessary)
see Attachment
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 **no explosives**

8. DETAIL AND REFERENCE OF

a) Any relevant previous/future cruises
Previous:
ARK XXII-3 August – September 2008

Future cruises are planned.

b) Any previously published research data relating to the proposed cruise
All cruise reports with detailed station lists are published in the series "Reports on Polar Research" by Alfred-Wegener-Institute for Polar-und Marine Research, Bremerhaven.

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
None

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
Yes, see dates above.

c) When research data from the intended cruise are likely to be made available to the coastal state and by what means
Data are available digitally within one year after the cruise. In addition, the data are published in the Reports of Polar Research by AWI and in other reports and in int. scientific journals.

PART C. SCIENTIFIC EQUIPMENT

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

Coastal state **Iceland**

Port of call **Reykjavik**

Dates **03. to 05. Aug 2009**

Indicate "YES" or "NO"

				DISTANCE FROM COAST		
List scientific work by function e.g.	Water column including sediment sampling of the seabed	Fisheries research within fishing limits	Research concerning the natural resources of the conti-nental shelf or its physical characteris-tics	Within 4 nm	Between 4-12 nm	Between 12-200 nm
Magnetometry	no	no	yes	yes	yes	yes
Gravity	no	no	yes	yes	yes	yes
Diving	no	no	no	no	no	no
Seismics	no	no	no	no	no	no
Seabed sampling	no	no	no	no	no	no
Bathymetry	yes	no	yes	yes	yes	yes
Echo sounding	yes	no	yes	yes	yes	yes
Water sampling	yes	no	no	yes	yes	yes
Trawling	no	no	no	no	no	no
Moored instr.	no	no	no	no	no	no
Air sampling	yes	no	no	yes	yes	yes
Water sampling	yes	no	no	yes	yes	yes
Sea-ice sampling	no	no	no	no	no	no
Snow sampling	no	no	no	no	no	no

Alfred-Wegener-Institut
für Polar- und Meeresforschung
Bereich Logistik
Postfach 120161
D-27515 Bremerhaven

i.A. _____ Dated 10.02.2009

(On behalf of the Principal Scientist)

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.

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DANGEROUS GOODS LIST

Expedition:	ARK XXIV-3	Institution :	AWI
Cruise leg: (Destination)	3	Participant :	I. Peeken
Project-No. (AWI-Coordination):	N-328	Colour code:	schwarz-gelb

Ident-No.	Quantity & Packing & storage	Proper Shipping Name (Correct technical name)	IMO-Class	UN-No.	Weight kg	Measurements cm	Value €
1	1 x 0.5 l glas bottle +4°C	Sodiumhypochlorit Solution 6-14% (NaOCl)	8/III	1791			
2	1x 250 ml plastic bottle +4°C	Hydrogenperoxide (H2O2)	5.1/II	2014			
3	2 x 0.5 l glasbottle +4°C	Titanium (III) chloride (TiCl3)	8 / III	2441			
4	3 x 1.0 l glas bottle	Ethanol (CH3CH2OH)	3.2/II	1170			
5	1 x 1.0 l glasbottle	Hydrochloric Acid, (HCL), 37%	8/II	1789			
6	1 x 1.0 l plasticbottle	Sodiumhydroxyde, 1 N (NaOH)	8/ II	1824			
7	2 x 2,5 l	Formaldehyde, 20%	8/III	2209			
8	1 x 250 ml glas bottle	Glutaraldehyde, 25% (OHC(CH2)3CHO)	6.1/II	2927			
9	1 x 1.0 l plasticbottle	Hydrochlorid Acid, (HCL), 32%	8 / II	1789			
10	1 x 1.0 l plasticbottle	Sulfuric acid (H2SO4) 50%	8 / II	1830			
11	200 L TransportContainer	Liquid Nitrogen (N2)	2	1977			
				Total / carry over:	0		0,00

i. A.

Date / Signature: 09.02.09