

NOTIFICATION OF PROPOSED RESEARCH CRUISE

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PART A: GENERAL

1. NAME OF SHIP: F.S. "Poseidon" Cruise No. **POS502**
2. DATES OF CRUISE: FROM: **15.7.16 Reykjavik** TO: **29.7.16 Reykjavik**
3. OPERATING AUTHORITY: **Helmholtz-Zentrum für Ozeanforschung Kiel
GEOMAR
Wischhofstraße 1-3
D-24148 KIEL
Telephone +49 (0)431- 600 2132
Telefax +49 (0)431- 600 1601
E-Mail klackschewitz@geomar.de**

4. OWNER: (if different from para 3)

5. PARTICULARS OF SHIP:
- | | |
|-----------------|---------------------------------|
| Name | POSEIDON |
| Nationality | German |
| Overall length | 60,80 metres |
| Maximal draught | 4,90 metres |
| BRT | 1105 BRT |
| Propulsion | Diesel Electric |
| Call Sign | DBKV |
| IMO no. | 7427518 |
| MMSI no. | 211204360 |
| Telephone | INMARSAT 00870761651773 |
| Telefax | INMARSAT 00870600273636 |
| E-Mail | bruecke.poseidon@briese- |

research.de

6. CREW: NAME OF MASTER: **Matthias Günther**

NUMBER OF CREW: **15**

7. SCIENTIFIC PERSONNEL:

NAME & ADDRESS OF SCIENTIST IN CHARGE

Dr. Isobel Yeo

Helmholtz zentrum für Ozeanforschung Kiel GEOMAR

Wischhofstr. 1-3, D-24148 Kiel

TEL.//TELEFAX No. **0431 600-2140, 0431 600-2924**

NUMBER OF SCIENTISTS: **10**

08. Geographical areas in which ship will operate
(with reference in latitude and longitude)

Within area bounded by:

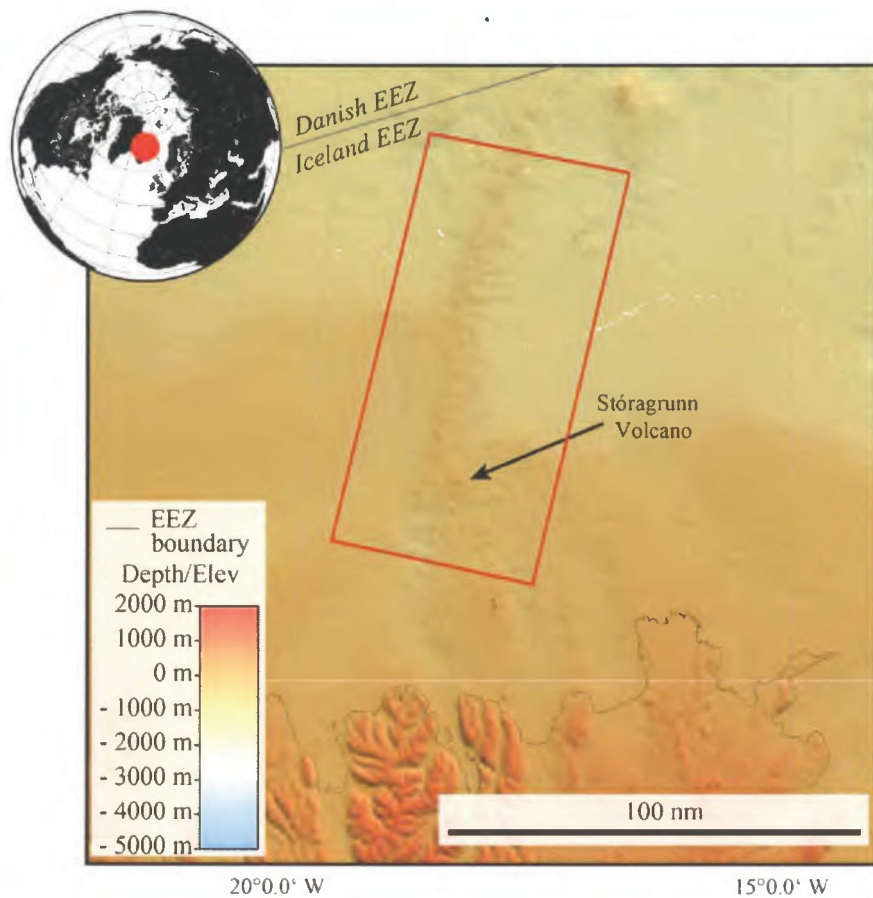
(ICELAND)

66°45.6'N 19°41.6'W

66°37.3'N 17°37.8'W

68°18.1'N 16°45.8'W

68°25.7'N 18°59.1'W



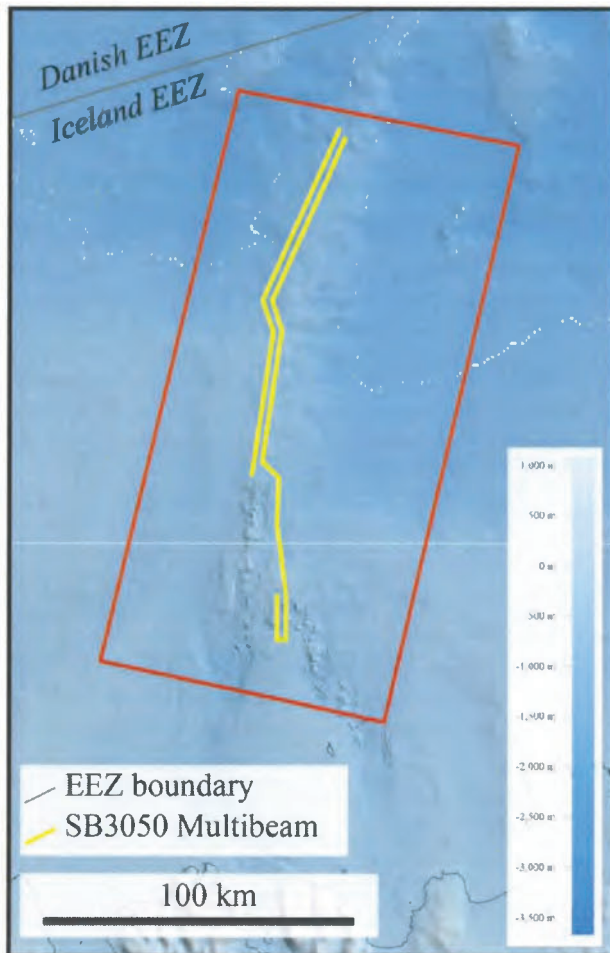
Northern limit of red box is at 68°25.8'N and bottom limit is at 66°37.7'N

09. Brief description of purpose of cruise
Multibeam survey over rift valley to south of volcano and north along rift axis during transit to study area to north (71°N).
10. Dates and names of intended ports of call
Reykjavik, Iceland, in between July 12-16, 2016 for 72 hours (intended so far July 13-15, 2016)
Reykjavik, Iceland, in between July 27 - August 3, 2016 for 72 hours (intended so far July 29 – August 1, 2016)
11. Any special logistic requirements at ports of call
None

DETAIL

Part B

01. Name of research ship **POSEIDON** Cruise No. **POS 502**
02. Dates of cruise from **15.07.2016** to **29.07.2016**
03. Purpose of research and general operational methods
Multibeam of the seafloor to contribute to a repeat surveyed dataset and to fill gaps in current data to the north with the ship SB3050 multibeam echosounder while on transit to main study area at 71°N (Norwegian and Danish waters).
04. Attach chart showing (on an appropriate scale) the geographical area of the intended work, positions of intended stations, tracks of survey lines, positions of moored / seabed equipment.



20°0.0' W

05. Types of samples required, e.g. Geological / Water / Plankton / Fish / Radio-activity / Isotope

None

and methods by which samples will be obtained (including dredging / coring / drilling).

None

06. Details of moored equipment:

None

07. Explosives: **no explosives**

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

08. Detail and reference of

- (a) Any relevant previous / future cruises

POS436 (2012)

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

Yeo, I. A., Devey, C. W., Augustin, LeBas, T. P. (2015) Segment-scale volcanic periodicity: Evidence from the North Kolbeinsey Ridge, Atlantic, *under review at Earth and Planetary Science Letters*

Haase, K.M., Devey, C.W. and Wienecke, M., 2003. Magmatic processes and mantle heterogeneity beneath the slow-spreading northern Kolbeinsey Ridge segment, North Atlantic. *Contrib. Mineral. Petrol.*, 144: 428-448.

Mertz, D., Sharp, W. and Haase, K., 2004. Volcanism on the Eggvin Bank (Central Norwegian-Greenland Sea, latitude similar to 71 degrees N): age, source, and relationship to the Iceland and putative Jan Mayen plumes. *Journal of Geodynamics*, 38(1): 57-83.

Brandsdóttir, B., E. E. E. Hooft, R. Mjelde, and Y. Murai (2015), Origin and evolution of the Kolbeinsey Ridge and Iceland Plateau, N-Atlantic, *Geochem. Geophys. Geosyst.*, 16, 612–634, doi:10.1002/2014GC005540.

09. Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place with whom previous contact has been made.

Bryndís Brandsdóttir

Senior Research Scientist, geophysics

Jarðvísindastofnun Háskólans Institute of Earth Sciences

Náttúrufræðahús, Askja, herbergi 327 Sturlugata 7, IS-101 Reykjavík

bryndis@hi.is

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 (Reykjavik 14.07.2016, Reykjavik 29.07.2016)
- (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 three months after finishing the research cruise**
 - **Scientific publication within the following three years**

COASTAL STATE: **Iceland**

SCIENTIFIC EQUIPMENT

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

List of all major Marine Scientific Equipment it is proposed to use and indicate waters in which it will be deployed	Fisheries Research within Fishing Limits	Research concerning Continental Shelf out to Coastal State's Margin	Within	Between	Between	Between
			3 NM	3 - 12 NM	12 - 50 NM	50 - 200 NM

a)						
Vessel mounted systems:						
Hydroacoustic bathymetric mapping	No	No	No	No	Yes	Yes

Dr. Klas S. Lackschewitz
GEOMAR
 Helmholtz-Zentrum
 für Ozeanforschung Kiel
 Forschungsschiffe/Research Vessels
 Wischhofstraße 1-3
 24148 Kiel