

UNDERSEA FEATURE NAME PROPOSAL

(See NOTE overleaf)

Ocean or Sea : Arctic Ocean _____ Name proposed : Kant _____

Coordinates : A - of midpoint or summit : Lat. : 68° 32' 00" W _____ , Long.: 86° 32' 50" N _____
_____ kilometres in _____ direction from _____

and/or B - extremities (if linear feature) :

Lat. _____ } to { Lat. _____
Long. _____ } Long. _____

Description (kind of feature) : Seamount _____

Identifying or categorizing characteristics (shape, dimensions, total relief, least depth, steepness, etc.):

The diameter of the seamount is approx. 41 km in NW direction and 22 km in NE direction. The conic form of the seamount starts at 4000 m water depth and rises up to 2450 m at the peak.

Associated features : The seamount is situated in the rift valley of the central Gakkel Ridge. _____

Chart reference :

Shown with name on chart No. _____

Shown but not named on chart No.: AWI Bathymetric Chart of the Gakkel Ridge (BCGR), Sheet No. 9 _____

Not shown but within area covered by chart No. _____

Reason for choice of name (if a person, state how associated with the feature to be named) : _____

Named after Immanuel Kant (1724-1804), born and died in Königsberg, philosopher and natural scientist, beside important philosophical research (e.g. "Kritik der reinen Vernunft") he was also engaged in geography and marine sciences.

Discovery facts :

Date : 13.09.01 by (individuals or ship) R/V "Polarstern" _____

By means of (equipment) : Hydrosweep DS-2 Multibeam Sonar _____

Navigation used : _GPS_____

Estimated positional accuracy in nautical miles : approx. 100 m _____

Description of survey (track spacing, line crossing, grid network, etc.) : _____
AWI BCGR is based on a 100m grid _____

Nature and repository of other survey activities (dredge samples, cores, magnetics, gravity, photographs, etc.) : Dredges, samples, cores, magnetics and gravity measurements were accomplished during the Arctic Mid-Ocean Ridge Expedition (AMORE 2001) by R/V "Polarstern" and USCGC "Healy", sample and data repositories are AWI Bremerhaven (Germany) respectively various scientific research institutes (USA)

Supporting material : enclose, if possible, a sketch map of the survey area, profiles of the features, etc., with reference to prior publication, if any : see attached maps

Submitted by : Jörn Hatzky _____

Date : 25.5.04 _____

Address : AWI Bremerhaven, Columbusstrasse, 27568 Bremerhaven, Germany _____

Concurred in by (if applicable) : _____

Address : _____

National Authority (if any) : _____

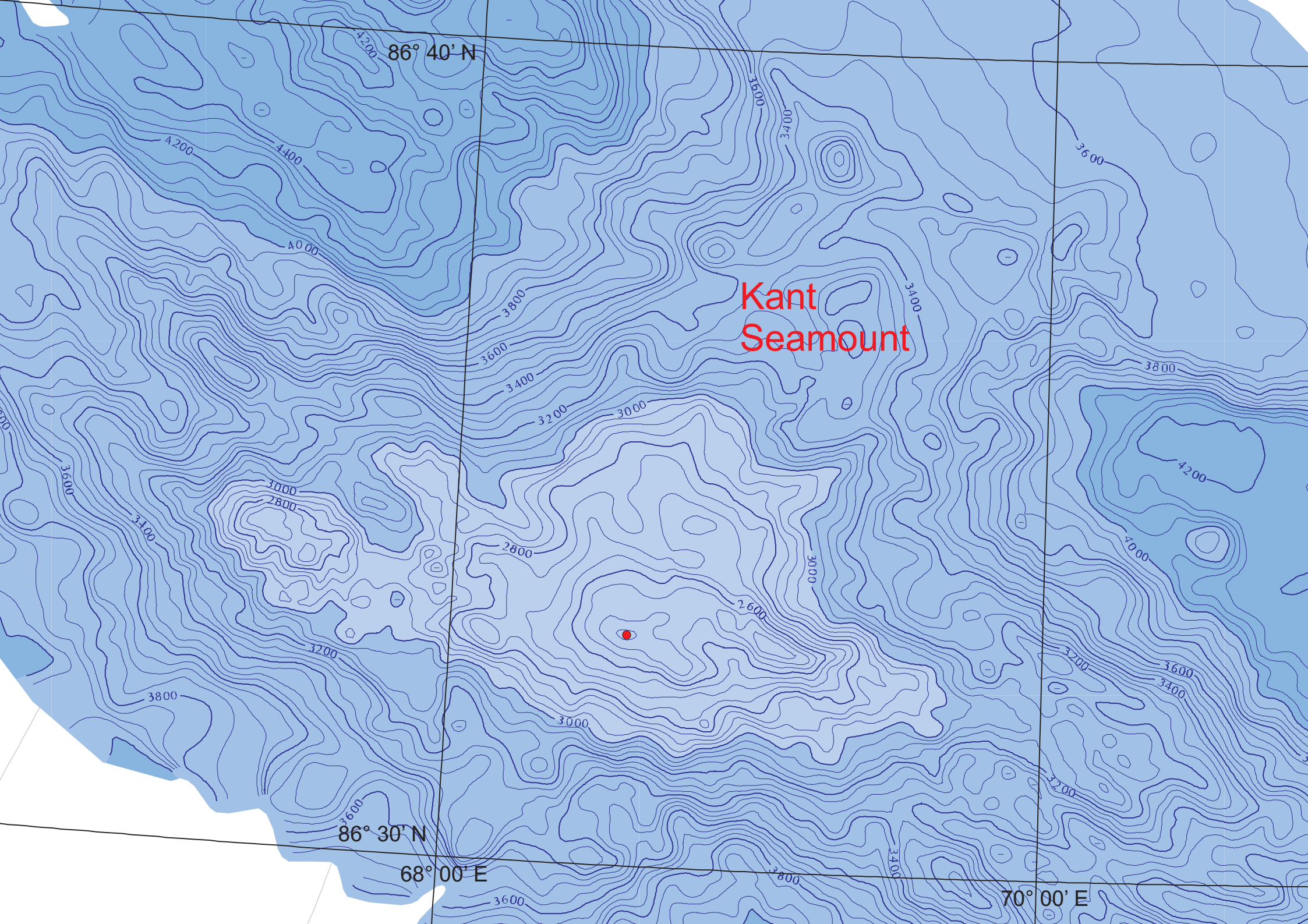
Address : _____

NOTE : This form should be forwarded, when completed :

- a) **If the undersea feature is located in territorial waters :-**
to your "National Authority for Approval of Undersea Feature Names" or, if this does not exist or is not known, either to the International Hydrographic Bureau or to the Intergovernmental Oceanographic Commission (see addresses below);
- b) **If the undersea feature is located in international waters :-**
to the International Hydrographic Bureau or to the Intergovernmental Oceanographic Commission, at the following addresses :

International Hydrographic Bureau
4, quai Antoine 1^{er}
B.P. 445
MC 98011 MONACO CEDEX
Principality of MONACO
Fax: +377 93 10 81 40
E-mail: info@ihb.mc

Intergovernmental Oceanographic Commission
UNESCO
Place de Fontenoy
75700 PARIS
FRANCE
Fax: +33 1 45 68 58 12
E-mail : info@unesco.org



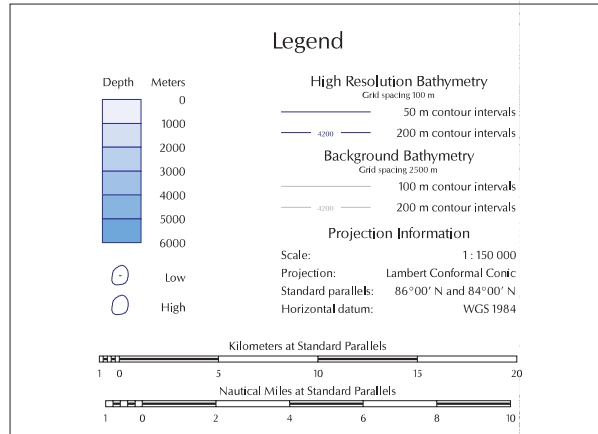
86° 40' N

Kant
Seamount

86° 30' N

68° 00' E

70° 00' E



Data Sources and References

Data sources
 High resolution bathymetry: Multibeam survey of Arctic Mid-Ocean Ridge Expedition 2001 by USCGC "Healy" (Seabeam 212) and RV "Polarstern" (Hydrosweep DS2).
 Background bathymetry: International Bathymetric Chart of the Arctic Ocean (IBCAO), Version 1.0 (2000).
 Geological sampling locations of Arctic Mid-Ocean Ridge Expedition 2001 by USCGC "Healy" and RV "Polarstern".

Data capture and processing
 Data capture by S. Gauger, T. Hartmann, J. Hatky (RV "Polarstern"), C. Kamas (USCGC "Healy").
 Data cleaning and editing by S. Gauger and T. Hartmann (ARES HIPS).
 DEM modeling, contouring and cartography by S. Gauger (AurInfo).

Preferred reference to this map
 Klarmann, Karl (Ed.): New High resolution cartography of Gakkel Ridge (Arctic Ocean) aids scientific, *Eos, Transactions, American Geophysical Union*, v. 79, no. 199, p. 199.

References
 Jakobsson, M., Cherkis, N., Woodward, J., Macraels, R., and Coakley, B., 2000, New grid of Arctic bathymetry aids scientists and mapmakers, *Eos, Transactions, American Geophysical Union*, v. 81, no. 9, p. 89, 93, 96.
 Jakobsson, M., and IBCAO Editorial Board members, 2000, Improvement to the International Bathymetric Chart of the Arctic Ocean (IBCAO): Updating the Data Base and the Grid Model, *EOS, Transactions, American Geophysical Union*, v. 84.
 Thiede, J., et al. (Eds.): Cruise Report of AMORE 2001. Reports on Polar and Marine Research 421, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, 2002.
 Michael, P. J., et al.: Cruise Report of Healy 0802, The Arctic Mid-Ocean Ridge Expedition - AMORE 2001.

Vertical reference system: Mean Sea Level. Vertical datum: Instantaneous Sea Level.
 Depths are shown in meters assuming a sound velocity in water of 1500 m/s.

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