

UNITED STATES BOARD ON GEOGRAPHIC NAMES

UNDERSEA FEATURE NAME PROPOSAL

NAME PROPOSED: Diebold Seamount

LOCATION: 43° 53' N, 126° 10' W

Ocean or Sea: Northeastern Pacific

Coordinates:

point feature or center point: Lat. 43° 53' N Long. 126° 10' W

linear feature (from)

linear feature (to-midpoint or turning point):

linear feature (to):

areal feature - Northeast corner:

- Southeast corner:

- Southwest corner:

- Northwest corner:

DESCRIPTION:

Feature type: seamount or knoll **Size and shape:** base is ~8x12 km, summit is ~750 m above the adjacent seafloor and ~1000 m above basement

Depth (max. and min.): max - 3000m, min - 2250 m **Steepness, etc.:** top ~flat with 2 peaks; sides with slope ~12°

Associated features: there is a smaller knoll a few km to the NE (see attached map)

CHART OR MAP REFERENCE:

Name and feature shown on: This feature is not named on any published map.

Feature shown but not named on: It is present in the Becker et al. (2009) global bathymetric grid, accessed via GeoMapApp (www.geomapapp.org)

REASON FOR CHOICE OF NAME: This name was chosen to honor marine geophysicist John Diebold, who died of a heart attack on July 1, 2010 at age 66.

Through his development of techniques to explore the ocean basins and his selfless efforts to manage ships operated by the Lamont Doherty Earth Observatory, Dr.

Diebold had a profound effect on our knowledge of the structure of Earth's crust beneath the ocean basins.

see <http://dotearth.blogs.nytimes.com/2010/07/06/the-passing-of-an-ocean-explorer/> or <http://www.ldeo.columbia.edu/~johnd/>

DISCOVERY FACTS:

Date: July 1999

Discoverer (individual, ship): R/V/ Melville cruise M9907

Sounding equipment used: SeaBeam 2000 **Navigation type:** GPS

Estimated horizontal accuracy: ± n.m./km **Track spacing, crossings:** 8 km, 2

SUPPORTING MATERIALS: Please enclose references, reprints profiles, maps, etc. - See attached map and profiles generated using GeoMapApp

and a letter supporting this request from Dr. Paul Johnson on behalf of the Marcus Langseth

Oversight Committee

SUBMITTED BY:

Dr. Anne M. Trehu

Organization and address: College of Oceanic and Atmospheric Sciences

Oregon State University

Corvallis OR 97330

trehu@coas.oregonstate.edu, 541-737-2655

Please mail to:

Executive Secretary

US Board on Geographic Names

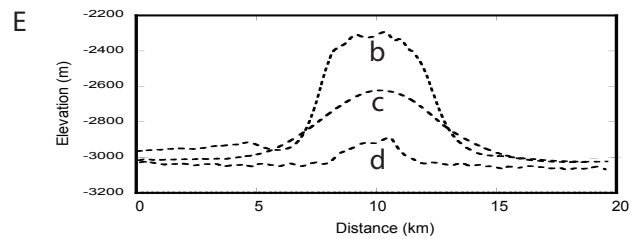
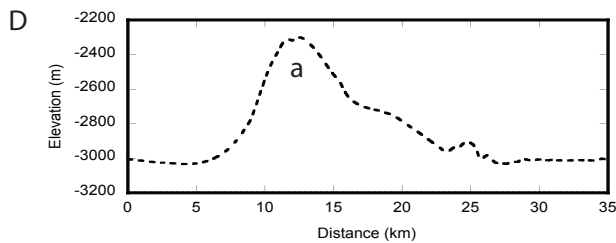
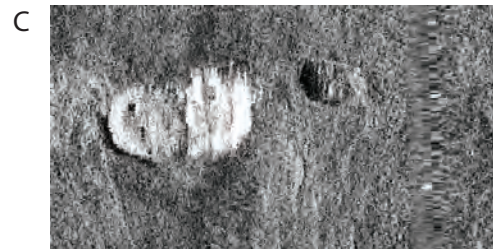
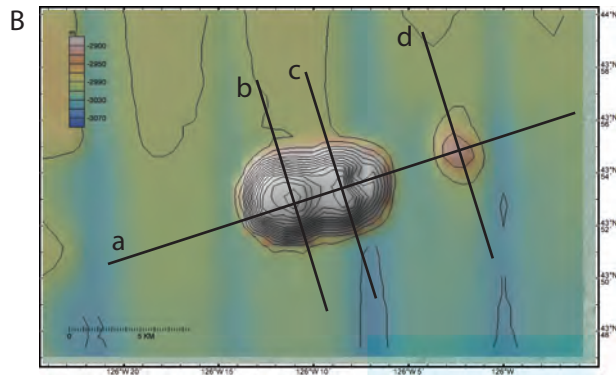
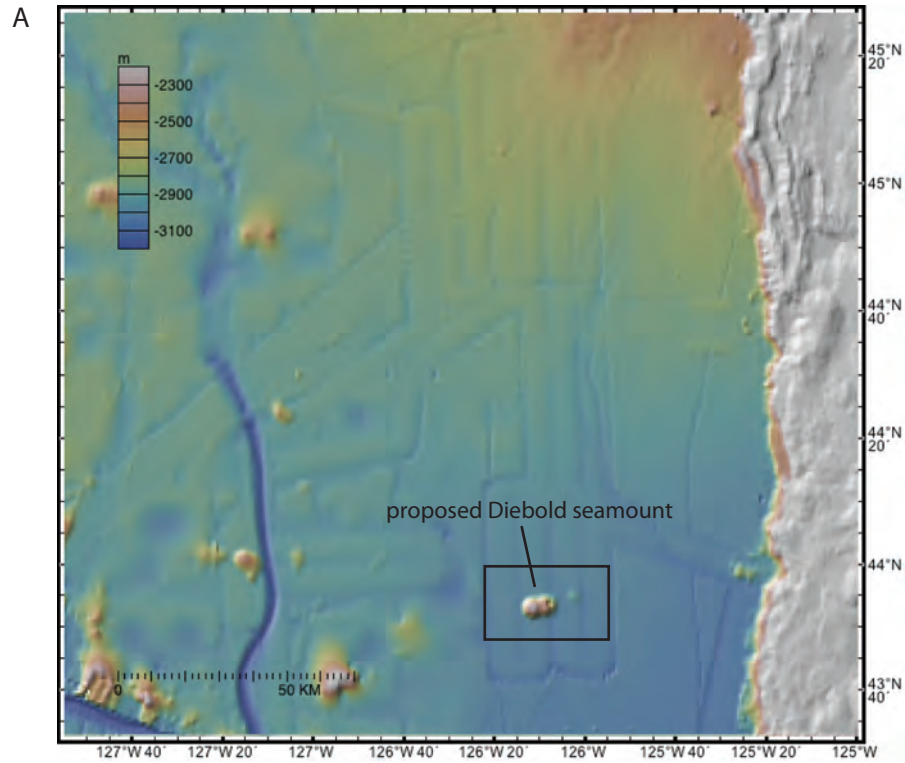
National Geospatial-Intelligence Agency

4600 Sangamore Road Mail Stop D-61

Bethesda MD 20816-5003

USA

Proposed "Diebold" seamount



- A. Regional bathymetry. Box outlines region shown in B.
- B. Bathymetry of Diebold seamount, located on 7 million year old lithosphere ~50 km west of the Cascadia deformation front off Oregon (from Becker et al., 2009, global bathymetry data accessed via GeoMapApp; www.geomapapp.org)
- C. GLORIA seafloor reflectivity of the same site.
- D. NE/SW trending topographic profile a. Location of profile is shown on B.
- E. NW/SE profiles b, c, d. Location of profiles are shown on B.



UNIVERSITY OF WASHINGTON

SCHOOL OF OCEANOGRAPHY

11/22/10

Dr. Anne Trehu
COAS, Oregon State University
Corvallis, OR 97331

Dear Dr. Trehu;

Speaking as a member of the MLSOC (Marcus Langseth Oversight Committee), I am happy to report to you the results of one of the items on the agenda from our recent October, 2010 meeting in San Diego. As you know, John Diebold was an essential member of that committee until his recent death, and the MLSOC committee members were very aware of his many valuable contributions – both to the scientific community at large, and to the marine seismic community in general. John was a long-time friend, colleague, shipmate and mentor to many of us in the oceanographic community. He will be both missed on a personal level, and his absence will leave a major gap in professional expertise at the scientific level.

The MLSOC committee expressed considerable sadness at the loss of John Diebold to our community, and there was a strong consensus within the group to go 'on record' supporting the efforts to officially name a significant marine geological feature in his honor. At the October, 2010 meeting, a motion was made supporting your proposal to name a large (previously un-named) basaltic outcrop off the Oregon margin in John's honor – as "Diebold". This motion was seconded, the vote was unanimously in favor, and this vote is recorded in the official minutes of the meeting and in the report of the MLSOC committee to UNOLS. The MLSOC committee would be very pleased if you included our support for your proposal in your application to make the name official.

Please let me or the Co-Chairs of MLSOC (Steve Holbrook, Graham Kent), know if you need any further information in this regard. Thank you again for all your efforts with this application.

Yours truly,

H. Paul Johnson
Professor

P.O. Box 357940 Seattle, Washington 98195-7940 (206) 543-8474 FAX: (206)-543-0275
johnson@ocean.washington.edu