

UNDERSEA FEATURE NAME PROPOSAL
(See IHO-IOC Publication B-6 and NOTE overleaf)

Note: The boxes will expand as you fill the form.

| | | | |
|-----------------------|-------------|----------------------|-----|
| Name Proposed: | Honda Guyot | Ocean or Sea: | N/A |
|-----------------------|-------------|----------------------|-----|

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|--|------|---------|-----------------|-----------------|--------------------|----------------------------|
| Geometry that best defines the feature (Yes/No) : | | | | | | |
| Point | Line | Polygon | Multiple points | Multiple lines* | Multiple polygons* | Combination of geometries* |
| | | Yes | | | | |

* Geometry should be clearly distinguished when providing the coordinates below.

| | | |
|---------------------|-----------------------|-------------------------|
| Coordinates: | Lat. (e.g. 63°32.6'N) | Long. (e.g. 046°21.3'W) |
| | 23°15.29'N | 156°38.81'E |
| | 23°15.58'N | 156°50.45'E |
| | 23°14.86'N | 156°52.95'E |
| | 23°08.72'N | 157°03.65'E |
| | 22°55.66'N | 157°12.65'E |
| | 22°38.88'N | 156°54.37'E |
| | 22°38.46'N | 156°50.73'E |
| | 23°00.01'N | 156°34.53'E |
| 23°07.44'N | 156°34.96'E | |
| 23°15.29'N | 156°38.81'E | |

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|-----------------------------|-----------------|---------|------------------|----------------|
| Feature Description: | Maximum Depth: | 5,585 m | Steepness : | N/A |
| | Minimum Depth : | 1,474 m | Shape : | Almost conical |
| | Total Relief : | 4,111 m | Dimension/Size : | 70 km × 65 km |

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| Associated Features: | Tayama Guyot, Marcus-Wake Seamount Group |
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|------------------------------|-----------------------------|------|
| Chart/Map References: | Shown Named on Map/Chart: | 6724 |
| | Shown Unnamed on Map/Chart: | |
| | Within Area of Map/Chart: | |

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| Reason for Choice of Name (if a person, state how associated with the feature to be named): | Named after a world-renown physicist and material scientist the late Dr. Kotaro Honda. See attached personal history for more details. |
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| Discovery Facts: | Discovery Date: | Feb. 1999 |
| | Discoverer (Individual, Ship): | Japanese survey vessel "Takuyo" |

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| Supporting Survey Data, including Track Controls: | Date of Survey: | Feb. - Mar. and Apr. - May 1999 Jul. - Aug. and Sep. 2007 |
| | Survey Ship: | Japanese survey vessel "Shoyo" and "Takuyo" |
| | Sounding Equipment: | Multibeam echo sounder Seabeam 2112 (2007) Seabeam 210B (1999) |
| | Type of Navigation: | GPS without Selective Availability (2007) GPS with Selective Availability (1999) |

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| Estimated Horizontal Accuracy, in nautical miles (M): | 0.014 nm (26 m) (2007) 0.054 nm (100 m) (1999) |
| Survey Track Spacing: | 5 nm |
| Supporting material can be submitted as Annex in analog or digital form. | |

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|---------------------|---|--|
| Proposer(s): | Name(s): | JCUFN |
| | Date: | August 20, 2018 |
| | E-mail: | ico@jodc.go.jp |
| | Organization and Address: | Hydrographic and Oceanographic Department, Japan Coast Guard Kasumigaseki 3-1-1, Chiyoda-ku, Tokyo 100-8932, Japan |
| | Concurrer (name, e-mail, organization and address): | |

| | |
|-----------------|---|
| Remarks: | The position of the summit is located in (22°59.48'N, 156°53.40'E). |
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NOTE: This form should be forwarded, when completed:

- a) **If the undersea feature is located inside the external limit of the territorial sea:**
- to your "National Authority for Approval of Undersea Feature Names" (see Publication B-6) or, if this does not exist or is not known, either to the IHO or to the IOC (see addresses below);
- b) **If at least 50 % of the undersea feature is located outside the external limits of the territorial sea:**
- to the IHO or to the IOC, at the following addresses :

| | |
|--|--|
| International Hydrographic Organization (IHO) 4b, Quai Antoine 1er B.P. 445 MC 98011 MONACO CEDEX Principality of MONACO Fax: +377 93 10 81 40 E-mail: info@iho.int Web: www.iho.int | Intergovernmental Oceanographic Commission (IOC) UNESCO Place de Fontenoy 75700 PARIS France Fax: +33 1 45 68 58 12 E-mail: info@unesco.org Web: http://ioc-unesco.org/ |
|--|--|

Personal history of the late Dr. Kotaro Honda

Given name: Kotaro

Family name: Honda

February 1870 Born

February 1954 Deceased

Education

1897 B.S., Imperial University of Tokyo

1906 PhD, Imperial University of Tokyo

Professional carrier:

1911 Professor, Tohoku Imperial University

1922 Director, Institute for Materials Research, Tohoku Imperial University

1931 President, Tohoku Imperial University

1937 Received the Order of Culture from the Japanese Government

1949 President, Tokyo University of Science

Remarks:

He was a world-renown physicist and material scientist. In 1917, he invented so called “KS Steel”, permanent magnetic steel with three times the magnetic resistance of tungsten steel. He further invented “NKS steel” in 1934 whose magnetic resistance is several times higher than that of KS Steel.

Although he was so much famous in his contribution to material science, he also made a significant contribution to hydrography. In 1905, he developed a portable tide gauge (Honda, 1905). At that time, he instructed the Hydrographic Department of Japan how to use this gauge. Following his instruction, the Hydrographic Department of Japan made further improvement on his gauge, resulting in the standard tide gauge for Japan’s hydrographic survey in 1908. This standard gauge had been used since then till 1962 for more than 50 years. Thanks to his tidal gauge, Hydrographic Department of Japan had been able to calculate the tidal harmonic constants of so many places.

References:

Honda, K., 1905, A portable aero-mercurial tide-gauge, Reports of Tokyo Physico-Mathematical Society, Vol. 2, No. 20, 302-306.

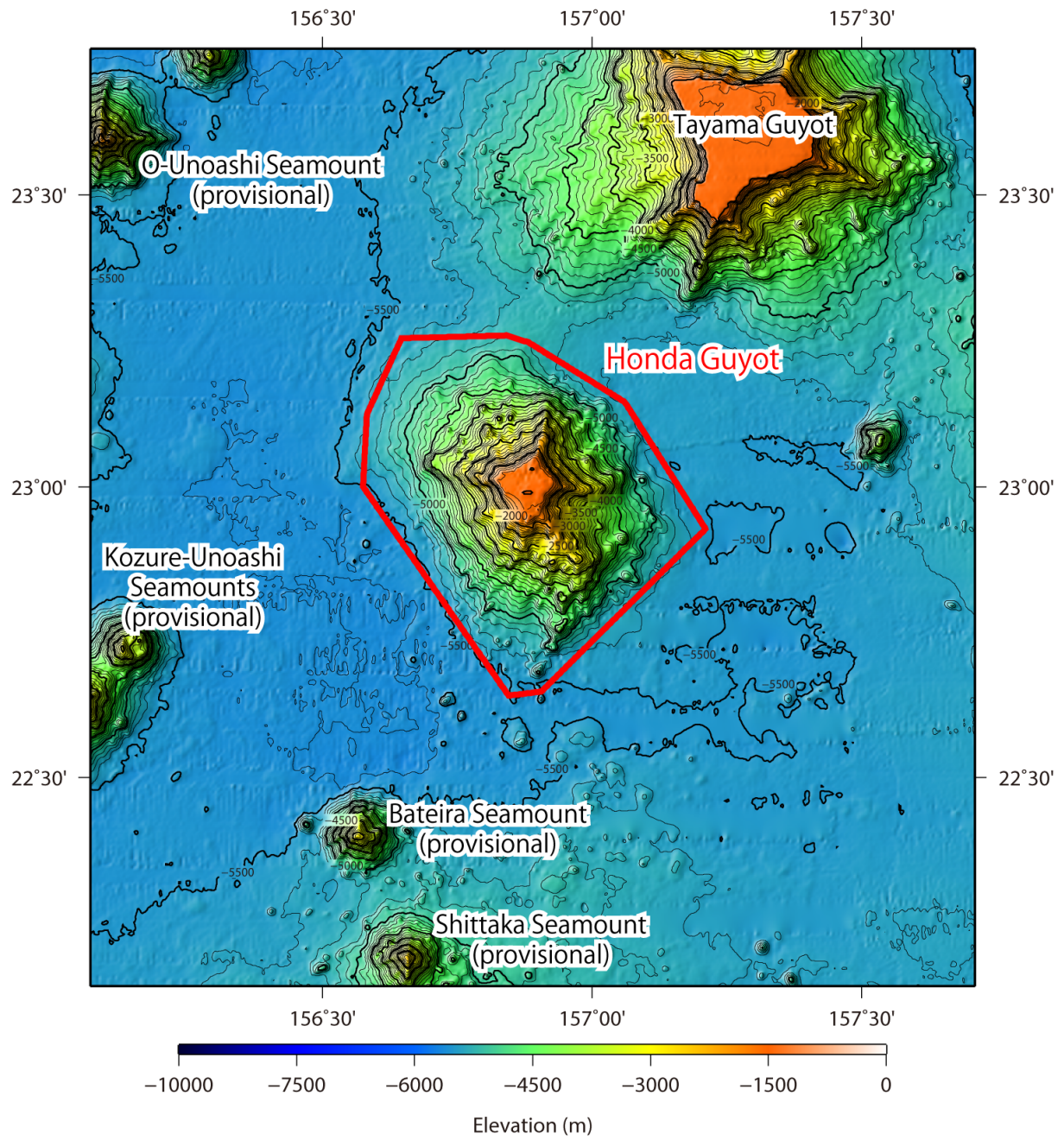


Fig. 1. Bathymetric map of the Honda Guyot. Contours are in 100 m.

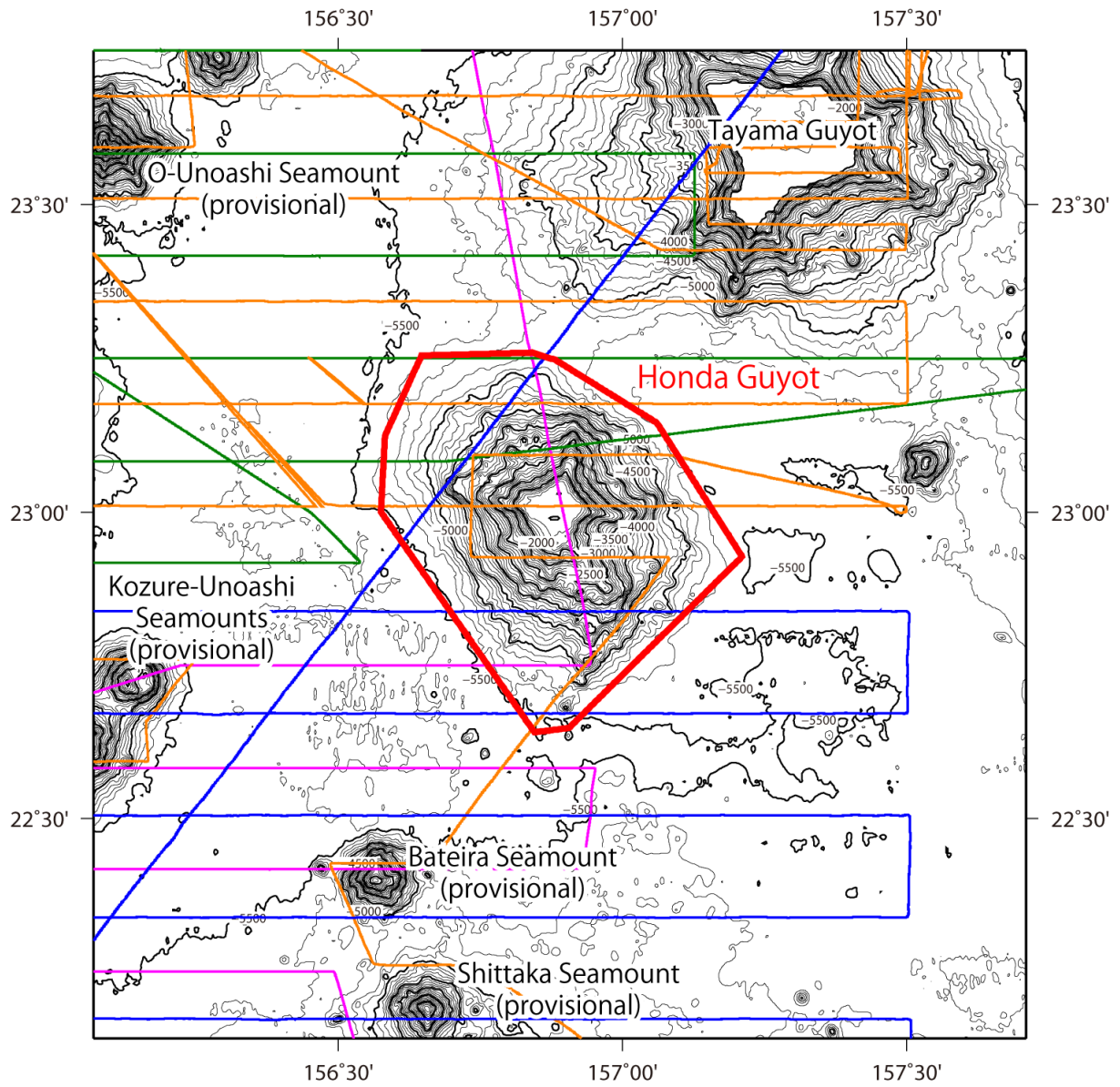


Fig. 2. Bathymetric map of the Honda Guyot, shown with track lines. Contours are in 100 m.

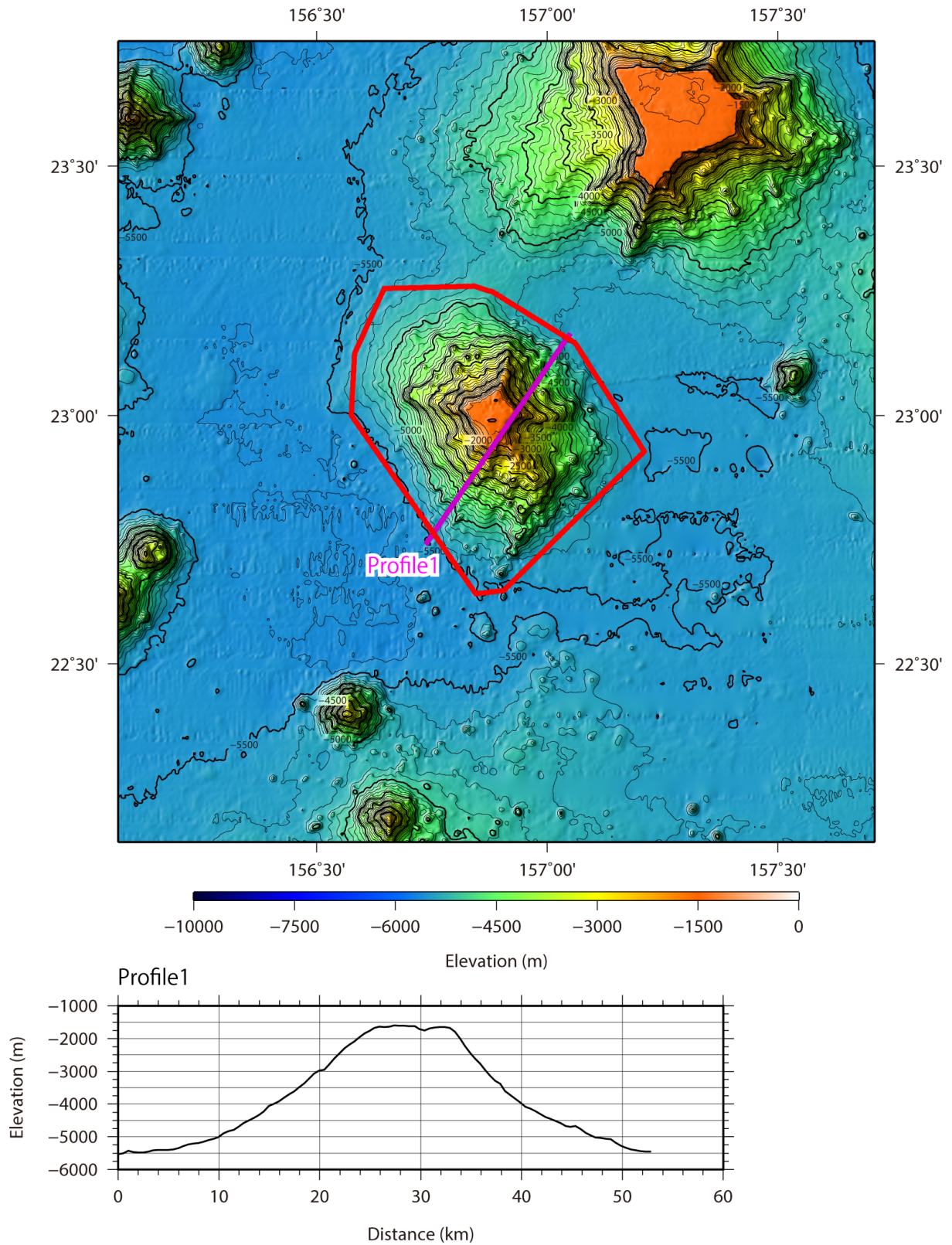


Fig. 3. Bathymetric profile across the Honda Guyot.