

To: IHB info@ihb.mc
 cc: mhuet@ihb.mc, hans-werner.schenke@awi.de
 Subject: New undersea generic terms
 Date: September 28, 2012

Dear Sir or Madam,

Seeing new features in ocean mapping and recognising the increase of public interest in ocean issues and seafloor topography, aspects of education in Earth sciences, and the global availability of spatial information,
 I recommend the inclusion of new subtopographic features in the "Guidelines"(B-6)¹.

Getting better seafloor information during the decades (higher quality of position and depth, higher spatial resolution by swath mapping), new types of undersea features and smaller extend of ocean / seafloor entities are discovered, documented and mapped. This corresponds to II. (Principles for naming features) B. (Generic terms) no. 3 ("It should be recognized.." etc.) (page 2-3 in B-6).

My proposals for generic terms include:

smoker

black smoker, white smoker

vent

hot vent

seep

cold seep. cold fluid seeps, cold fluid seeps crater
 e.g. off Costa Rica

score / scores

iceberg scores, iceberg plough marks iceberg plowmarks, iceberg furrows
 e.g. at the Norwegian continental shelf, Antarctic shelves
 Reference/s: e.g. [aasmm_2011_rebesco.pdf](#)

valley incl. buried river valley

e.g. off Ireland

layer

deepwater salt layer
 e.g. in the Mediterranean Sea:

¹ Standardization of Undersea Feature Names - Guidelines, Proposal Form, Terminology. Bathymetric Publication No. 6; English/French version, 4th edition, November 2008.

reef including deep water coral reef, e.g. off Norway

mud volcano

e.g. mud volcanoes off Portugal, Haakon Mud Volcano off Norway

sand ripples

dune, sand ripples, sediment wave(s), sand-wave field

Reference/s: e.g. [aasmm_2011_rebesco.pdf](#)

e.g. in The English Channel/La Manche

crag-and-tail, drumlin

tunnel valley

moraine

ribbed moraines, glacial moraines, lobate moraine, lateral ice-stream moraine

Reference/s: e.g. [aasmm_2011_rebesco.pdf](#)

slide

slide, submarine landslides scarps

Reference/s: e.g. [aasmm_2011_rebesco.pdf](#)

lineation

mega scale glacial lineations (MSGL)

Reference/s: e.g. [aasmm_2011_rebesco.pdf](#)

This is just an incomplete and not systematic list. Literature references etc. may be very incomplete (if necessary, I'll work on a more precise documentation).

I guess you experts know a lot more new features.

Yours faithfully,

Heinrich Hinze

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