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| 13 December 2011List of Marine Mammal Species and Subspecies  |

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| The Ad-Hoc [Committee on Taxonomy](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=45&Itemid=55#taxonomy), chaired by Bill Perrin, has produced the first official SMM list of marine mammal species and subspecies. Consensus on some issues was not possible; this is reflected in the footnotes.*This list is revisited and possibly revised every few months reflecting the continuing flux in marine mammal taxonomy. This version was updated on 13 December 2011.*This list can be cited as follows: “Committee on Taxonomy. 2011. List of marine mammal species and subspecies. Society for Marine Mammalogy, www.marinemammalscience.org, consulted on [date].”This list includes living and recently extinct species and subspecies.  It is meant to reflect prevailing usage and recent revisions published in the peer-reviewed literature.  Author(s) and year of description of the species follow the Latin species name; when these are enclosed in paren­theses, the species was originally described in a different genus. Classification and scientific names follow Rice (1998), with adjustments reflecting more recent literature. Common names are arbitrary and change with time and place; one or two currently frequently used in English and/or a range language are given here.  Additional English common names and common names in French, Spanish, Russian and other languages are available at [www.marinespecies.org/cetacea/](http://www.marinespecies.org/cetacea/%22%20%5Ct%20%22_blank).Based on molecular and morphological data, the cetaceans genetically and morphologically fall firmly within the artiodactyl clade (Geisler and Uhen, 2005), and therefore we include them in the order Cetartiodactyla, with Cetacea, Mysticeti and Odontoceti as unranked taxa (recognizing that the classification within Cetartiodactyla remains partially unresolved -- e.g., see Spaulding *et al*., 2009, Price et al., 2005; Agnarsson and May-Collado, 2008)1. Below the rank of order, we list only families, species and subspecies, omitting superfamilies, subfamilies and taxa of other ranks.For pinnipeds we follow Berta and Churchill (in press). To avoid issues of paraphyly, these authors proposed that based on data from genetics and morphology the genus *Arctocephalus* be limited to *Arctocephalus pusillus*, the type species of the genus *Arctocephalus* and transferred the remaining '*Arctocephalus*' species (i.e. *A. australis, A. galapagoensis, A. gazelle, A. philippii* and *A. tropicalis*) to *Arctophoca* Peters, 1866. Although as many as four subspecies of *Arctophoca australis* may be valid pending study of larger samples, only three subspecies are recognized at present: *A. a. australis, A. a. forsteri* and *A. a. gracilis*. Two subspecies of *Arctophoca philipii* are valid: *A.p. philippii* and *A. p. townsendi*, although small sample sizes and a small number of genes sampled are concerns. Two subspecies of *Eumetopias* are supported largely on genetic data, which is also the case for recognition of California, Japanese and Galapagos sea lions as separate species. Brunner (2004) advised use of *Otaria byronia* (Blainville, 1820) over *O. flavescens* (Shaw, 1800).  Lindqvist et al. (2009) concluded that a purported third subspecies of walrus *Odobenus rosmarus laptevi* is not valid. Recent genetic analyses indicate that *Phoca vitulina concolor* is paraphyletic and this along with lack of morphological differentiation suggests that the western Atlantic subspecies is not valid; *P. v. vitulina* is considered here to apply to all Atlantic harbor seals. Within the North Pacific, until the subspecies limits of various populations are assessed only a single subspecies is recognized, *Phoca vitulina richardii*. Placement of the ringed seal, Caspian seal and Baikal seal has alternated between the genera *Phoca* and *Pusa*. We accept Rice's (1998) use of *Pusa* as the correct classification." The use of *Lontra* rather than *Lutra* for the marine otter follows Larivière (1998) in rec­ognizing the otters of North and South America as a monophyletic taxon distinct from the otters of Eurasia.In the mysticete cetaceans, recent genetic evidence strongly supports the recognition of three separate phylogenetic species of right whales (Rosenbaum *et al.,* 2000; Gaines et al., 2005). In addition, the genus *Eubalaena* (rather than *Balaena* as in Rice, 1998) is retained for the right whales as recommended by the Scientific Committee of the International Whaling Commission (IWC, 2002)2. All Bryde's whales are provisionally considered to comprise a single species, *Balaenoptera edeni*, following the usage of the IWC (IWC 2002, 2008) and Kato and Perrin (2009). Some workers recognize *B. edeni* as including only the small-form coastal Bryde's whales of the western Pacific and Indian Oceans, using *B. brydei* for the globally distributed larger more oceanic form (Sasaki *et al.*, 2006). Kato and Perrin (2009) consider these more likely to be distinct at the subspecific level, and they are included here as such. *Balaenoptera omurai* is a newly described species (Wada *et al.*, 2003). It was previously confounded with the Bryde's whale and has been confirmed as having a separate and ancient lineage (Sasaki *et al.* 2006). Clarke (2004) proposed recognition of a pygmy form of the fin whale as a subspecies, based on distribution, size and coloration. He resurrected the synonym *patachonica* Burmeister, 1865 to apply to the subspecies: *B. physalus patachonica*.In the odontocetes, *Mesoplodon traversii* (spade-toothed whale) has been recognized as the senior synonym for *M. bahamondi* (Bahamonde's beaked whale) (van Helden *et al.*, 2002)*. Mesoplodon perrini* is a newly described species (Dalebout *et al.*, 2002).  Robineau *et al.* (2007) described the subspecies *Cephalorhynchus commersonii kerguelenensis*, and A. Baker *et al*. described *C. hectori maui.* We follow the IWC in listing only two species of *Sousa*; the taxonomy of this group is in flux (Parra and Ross, 2009). The tucuxi has been split into the freshwater *Sotalia fluviatilis* (retaining the common name tucuxi) and the marine Guiana dolphin *S. guianensis* (Caballero *et al.* 2007).  Recognition of the Black Sea bottlenose dolphin is now well-supported by genetic data (Viaud-Martinez *et al.*, 2008), as is the Black Sea common dolphin (Natoli *et al.*, 2008). *Delphinus tropicalis* is now considered a subspecies of *D. capensis* (Jefferson and Van Waerebeek, 2002)*.* *Lagenorhynchus* is widely considered an unnatural (polyphyletic) taxon containing morphologically convergent species (Cipriano 1997, LeDuc et al. 1999, McGowen 2011), and application of the genera *Sagmatias* (for *L. obscurus, obliquidens, australis* and *cruciger*) and *Leucopleurus* (for *L. acutus*) have been suggested as appropriate and used by some workers. However, there is continuing disagreement about whether *australis* and *cruciger* should be included in *Cephalorhynchus* (which would necessitate a new genus for *obliquidens* and *obscurus*, as *australis* is the type species for the genus *Sagmatias*) and about whether *albirostris* and *acutus* are sister species (which would obviate the need for *Leucopleurus*). We therefore provisionally retain all the species in *Lagenorhynchus*. Harlin-Cognato (2010) recognized *L. o. posidonia* (Peru/Chile). She also recognized *L. o. superciliosis* (Lesson and Garnot, 1826) for the New Zealand subspecies, but the species identity of the figure in Lesson and Garnot is in question, and we retain use of "un-named New Zealand subspecies." Perrin *et al.* (1999) established the subspecies *Stenella longirostris roseiventris.* The Irrawaddy dolphin was recently split into *O. brevirostris* and *O. heinsohni,* the Australian snubfin dolphin (Beasley *et al*., 2005). Krahn et al. (2004) recognized two un-named species of killer whales, the resident and transient forms.Wang *et al.* (2008) and Jefferson and Wang (2011) established *Neophocaena asiaeorientalis* as a full species, with two subspecies. Viaud-Martinez *et al.* (2007) concluded based on morphological and genetic evidence that *Phocoena phocoena relicta* is a valid subspecies.In the Sirenia, subspecies of the dugong are not currently recognized (Domning, 1996). However, no in-depth study has been undertaken to address the issue of subspecies.For review of species concepts, see Reeves *et al*. (2004), Orr and Coyne (2004), de Queiroz (2007) and Perrin (2009).  Perrin *et al*. (2009) reviewed the cetacean subspecies, but that review has not yet appeared in the peer-reviewed literature and is therefore not considered here; the subspecies (including for the Carnivora and Sirenia) are as recognized by Rice (1998), with the above-noted changes.Corrections and comments should be directed to the Ad Hoc Committee on Taxonomy (william.perrin@noaa.gov).  Divergent opinions by members of the Committee on particular taxonomic questions are given in the footnotes.**Order Carnivora****Family Otariidae (eared seals and sea lions; 14 species, of which 1 extinct)***Arctocephalus pusillus* (Schreber, 1775) Cape fur seal*A. p. pusillus* (Schreber, 1775). Cape fur seal*A. p. doriferus* Wood Jones, 1925. Australian fur seal*Arctophoca gazella* Peters, 1875. Antarctic fur seal*Arctophoca tropicalis* (Gray, 1872).  Subantarctic fur seal*Arctophoca australis* (Zimmerman, 1783)*A. a. australis* (Zimmermann, 1783). Falkland Islands fur seal[*A. a. forsteri*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=439&Itemid=285) (Lesson, 1828). New Zealand fur seal*A. a. gracilis (*Nehring, 1887). South American fur seal*Arctophoca galapagoensis* Heller, 1904. Galapagos fur seal*Arctophoca philippii* (Peters, 1866)*A. p. philippi* Peters, 1866. Juan Fernandez fur seal*A. p. townsendi* (Merriam, 1897). Guadalupe fur seal*Callorhinus ursinus* (Linnaeus, 1758). Northern fur seal*Zalophus japonicus* (Peters, 1866). Japanese sea lion (extinct)*Zalophus californianus* (Lesson, 1828). California sea lion*Zalophus wollebaeki* Sivertsen, 1953. Galapagos sea lion*Eumetopias jubatus* (Schreber, 1776). Steller sea lion, northern sea lion*E. j. jubatus* (Schreber, 1776). Western Steller sea lion*E. j. monteriensis* (Gray, 1859). Loughlin's northern sea lion[*Neophoca cinerea*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=468&Itemid=302) (Peron, 1816). Australian sea lion[*Phocarctos hookeri*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=437&Itemid=286) (Gray, 1844). New Zealand sea lion*Otaria byronia* (Blainville, 1820). South American sea lion**Family Odobenidae** [*Odobenus rosmarus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=512&Itemid=320) (Linnaeus, 1758). Walrus*O. r. rosmarus* (Linnaeus, 1758). Atlantic walrus*O. r. divergens* (Illiger, 1815). Pacific walrus**Family Phocidae (earless seals; 19 species, of which 1extinct)***Erignathus barbatus* (Erxleben, 1777). Bearded seal*E. b. barbatus* (Erxleben, 1777). Atlantic bearded seal*E. b. nauticus* (Pallas, 1881). Pacific bearded seal[*Phoca vitulina*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=477&Itemid=310) (Linnaeus, 1758). Harbor seal, common seal*P. v. vitulina* (Linnaeus, 1758). Atlantic harbor seal*P. v. richardii* (Gray, 1864). Pacific harbor seal*Phoca largha* (Pallas, 1811. Spotted seal, largha seal*Pusa hispida* (Schreber, 1775). Ringed seal*P. h. hispida* (Schreber, 1775). Arctic Ringed seal*P. h. botnica* (Gmelin, 1788). Baltic ringed seal*P. h. ochotensis* (Nordquist, 1889) Okhotsk ringed seal*P. h. ladogensis* (Nordquist, 1889). Lake Ladoga seal*P. h. saimensis* (Nordquist, 1889). Saima seal*Pusa caspica* (Gmelin, 1788). Caspian seal*Pusa sibirica* (Gmelin, 1788. Baikal seal[*Halichoerus grypus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=476&Itemid=309) (Fabricius, 1791). Gray seal*H. g. grypus* (Fabricius, 1791). Western Atlantic gray seal*H. g. macrorhynchus* Hornschuh and Schilling, 1851. Eastern Atlantic gray seal*Histriophoca fasciata* (Zimmerman, 1783). Ribbon seal*Pagophilus groenlandicus* (Erxleben, 1777). Harp seal*Cystophora cristata* (Erxleben, 1777). Hooded seal[*Monachus tropicalis*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=472&Itemid=306) (Gray, 1850). Caribbean monk seal (extinct)*Monachus monachus* (Hermann, 1779). Mediter­ranean monk seal[*Monachus schauinslandi*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=498&Itemid=314) Matschie, 1905. Hawaiian monk seal[*Mirounga leonina*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=453&Itemid=296) (Linnaeus, 1758). Southern elephant seal[*Mirounga angustirostris*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=424&Itemid=295) (Gill, 1866). Northern elephant seal*Leptonychotes weddellii* (Lesson, 1826). Weddell seal*Ommatophoca rossii* Gray, 1844. Ross seal*Lobodon carcinophaga* (Hombron and Jacquinot, 1842). Crabeater seal[*Hydrurga leptonyx*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=459&Itemid=298) (Blainville, 1820). Leopard seal**Family Ursidae** *Ursus maritimus* Phipps, 1774. Polar bear*U. m. maritimus* Phipps, 1774. Atlantic polar bear*U. m. marinus* Pallas, 1776. Pacific polar bear**Family Mustelidae** *Enhydra lutris* (Linnaeus, 1758). Sea otter*E. l. lutris* (Linnaeus, 1758). Western sea otter*E. l. kenyoni* Wilson, 1991. Eastern sea otter*E. l. nereis* (Merriam, 1904). Southern sea otter*Lontra felina* (Molina, 1782). Marine otter*Neovision macrodon* (Prentis, 1903). Sea mink (extinct) **Order Cetartiodactyla(artiodactyls and cetaceans)*****CETACEA* (cetaceans; 87 species, of which 1 extinct)****MYSTICETI (baleen whales, 14 species)****Family Balaenidae (right whales, 4 species)***Eubalaena glacialis* (Müller, 1776). North Atlantic right whale*Eubalaena japonica* (Lacépède, 1818). North Pacific right whale*Eubalaena australis* (Desmoulins, 1822). Southern right whale*Balaena mysticetus* Linnaeus, 1758. Bowhead whale, Greenland whale**Family Neobalaenidae***Caperea marginata* (Gray, 1846). Pygmy right whale**Family Eschrichtiidae**[*Eschrichtius robustus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=475&Itemid=308) (Lilljeborg, 1861). Gray whale**Family Balaenopteridae (rorquals, 8 species)**[*Megaptera novaeangliae*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=426&Itemid=282) (Borowski, 1781). Humpback whale*Balaenoptera acutorostrata* Lacépède, 1804. Common minke whale*B. a. acutorostrata* Lacépède, 1804. North Atlantic minke whale*B. a. scammoni* Deméré, 1986. North Pacific minke whale*B. a.* un-named subsp. Dwarf minke whale[*Balaenoptera bonaerensis*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=407&Itemid=274) Burmeister, 1867. Antarctic minke whale*Balaenoptera edeni* Anderson, 1879. Bryde's whale*B. e. edeni* Anderson, 1879*B. e. brydei* Olsen, 1913*Balaenoptera omurai* Wada, Oishi and Yamada, 2003. Omura's whale*Balaenoptera borealis* Lesson, 1828. Sei whale*B. b. borealis* Lesson, 1828. Northern sei whale*B. b. schlegellii (*Flower, 1865). Southern sei whale[*Balaenoptera physalus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=418&Itemid=279) (Linnaeus, 1758). Fin whale*B. p. physalus* (Linnaeus, 1758). Northern fin whale*B. p. quoyi* Fischer, 1829). Southern fin whale*B. p. patachonica Burmeister*, 1865. Pygmy fin whale[*Balaenoptera musculus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=494&Itemid=311) (Linnaeus, 1758). Blue whale*B. m. musculus* (Linnaeus, 1758). Northern blue whale*B. m. intermedia* Burmeister, 1871. Southern blue whale*B. m. indica* Blyth, 1859. Indian Ocean blue whale[*B. m. brevicauda*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=514&Itemid=321) Ichihara, 1966. Pygmy blue whale **ODONTOCETI (toothed whales, dolphins and porpoises; 73 species, of which 1 extinct)****Family Physeteridae** [*Physeter macrocephalus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=496&Itemid=313) Linnaeus*,* 1758. Sperm whale, cachalot**Family Kogiidae** *Kogia breviceps* (Blainville, 1838). Pygmy sperm whale*Kogia sima* (Owen, 1866). Dwarf sperm whale**Family Ziphiidae (beaked whales, 21 species)**[*Ziphius cavirostris*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=474&Itemid=307) G. Cuvier, 1823. Cuvier's beaked whale, goose-beaked whale*Berardius arnuxii* Duvernoy, 1851. Arnoux' beaked whale*Berardius bairdii* Stejneger, 1883. Baird's beaked whale*Tasmacetus shepherdi* Oliver, 1937. Shepherd's beaked whale, Tasman beaked whale*Indopacetus pacificus* (Longman, 1926). Longman's beaked whale, tropical bottlenose whale,[*Hyperoodon ampullatus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=417&Itemid=278) (Forster, 1770). Northern bottlenose whale*Hyperoodon planifrons* Flower, 1882. Southern bottlenose whale*Mesoplodon hectori* (Gray, 1871). Hector's beaked whale*Mesoplodon mirus* True, 1913. True's beaked whale*Mesoplodon europaeus* (Gervais, 1855). Gervais' beaked whale*Mesoplodon bidens* (Sowerby, 1804). Sowerby's beaked whale*Mesoplodon grayi von* Haast, 1876. Gray's beaked whale*Mesoplodon perrini* Dalebout, Mead, Baker, Baker and van Helden, 2002. Perrin's beaked whale*Mesoplodon peruvianus* Reyes, Mead and Van Waerebeek, 1991. Pygmy beaked whale*Mesoplodon bowdoini* Andrews, 1908. Andrew's beaked whale*Mesoplodon traversii* (Gray, 1874). Spade-toothed whale*Mesoplodon carlhubbsi* Moore, 1963. Hubbs' beaked whale*Mesoplodon ginkgodens* Nishiwaki and Kamiya, 1958. Ginkgo-toothed beaked whale*Mesoplodon stejnegeri* True, 1885. Stejneger's beaked whale*Mesoplodon layardii* (Gray, 1865). Strap-toothed beaked whale[*Mesoplodon densirostris*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=515&Itemid=322) (Blainville, 1817. Blainville's beaked whale**Family Platanistidae***Platanista gangetica* (Lebeck, 1801). South Asian river dolphin, Indian River dolphin*P. g. gangetica* (Lebeck, 1801). Susu, Ganges river dolphin*P. g. minor* Owen, 1853. Bhulan, Indus river dolphin**Family Iniidae** *Inia geoffrensis* (Blainville, 1817). Amazon river dolphin*I. g. geoffrensis*(Blainville, 1817). Boto*I. g. humboldtiana* Pilleri and Gihr, 1977. Orinoco bufeo*I. g. boliviensis* d'Orbigny, 1834. Bolivian bufeo**Family Lipotidae***Lipotes vexillifer* (Miller, 1918). Baiji, Yangtze river dolphin - extinct**Family Pontoporiidae** *Pontoporia blainvillei* (Gervais and d'Orbigny, 1821). Franciscana, La Plata dolphin**Family Monodontidae** [*Monodon monoceros*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=510&Itemid=319) Linnaeus, 1758. Narwhal*Delphinapterus leucas* (Pallas, 1776). Beluga, white whale**Family Delphinidae (36 species)***Cephalorhynchus commersonii* (Lacépède, 1804). Commerson's dolphin*C. c. commersonii* (Lacépède, 1804). Commerson's dolphin*C. c. kerguelenensis* Robineau, Goodall, Pichler and C. S. Baker, 2007. KerguelenIslands Commerson's dolphin*Cephalorhynchus eutropia* (Gray, 1846). Chilean dolphin*Cephalorhynchus heavisidii* (Gray, 1828). Heaviside's dolphin, Haviside’s dolphin[*Cephalorhynchus hectori*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=422&Itemid=281) (Van Beneden, 1881). Hector's dolphin*C. h. hectori* (Van Beneden, 1881). Hector's dolphin*C. h. maui* A. Baker, Smith and Pichler, 2002. Maui's dolphin*Steno bredanensis* (G. Cuvier *in* Lesson, 1828). Rough-toothed dolphin*Sousa teuszii* (Kükenthal, 1892). Atlantic hump­back dolphin*Sousa chinensis* (Osbeck, 1765). Indo-Pacific hump­back dolphin*Sotalia fluviatilis* (Gervais and Deville, 1853). Tucuxi, marine tucuxi*Sotalia guianensis* (Van Bénedén, 1864). Guiana dolphin, costero*Tursiops truncatus* (Montagu, 1821). Common bottlenose dolphin*T. t. truncatus* (Montagu, 1821). Common bottlenose dolphin*T. t. ponticus* Barabash-Nikiforov, 1940. Black Sea bottlenose dolphin[*Tursiops aduncus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=522&Itemid=326) (Ehrenberg, 1833). Indo-Pacific bottlenose dolphin*Stenella attenuata* (Gray, 1846). Pantropical spotted dolphin*S. a. attenuata* (Gray, 1846). Offshore pantropical spotted dolphin*S. a. graffmani* (Lönnberg, 1934). Coastal pantropical spotted dolphin[*Stenella frontalis*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=434&Itemid=284) (G. Cuvier, 1829). Atlantic spotted dolphin*Stenella longirostris* (Gray, 1828). Spinner dolphin*S. l. longirostris* (Gray, 1828). Gray's spinner dolphin*S. l. orientalis* Perrin, 1990. Eastern spinner dolphin*S. l. centroamericana* Perrin, 1990. Central American spinner dolphin*S. l. roseiventris* (Wagner, 1846). Dwarf spinner dolphin*Stenella clymene* (Gray, 1850). Clymene dolphin*Stenella coeruleoalba* (Meyen, 1833). Striped dolphin[*Delphinus delphis*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=467&Itemid=301) Linnaeus, 1758. Short-beaked common dolphin, saddleback dolphin*D. d. delphis* Linnaeus, 1758. Short-beaked common dolphin*D. d. ponticus* Barabash, 1935. Black Sea common dolphin[*Delphinus capensis*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=465&Itemid=300) Gray, 1828. Long-beaked common dolphin*D. c. capensis* Gray, 1828. Long-beaked common dolphin*D. c. tropicalis* van Bree, 1971. Indo-Pacific common dolphin*Lagenodelphis hosei* Fraser, 1956. Fraser's dolphin*Lagenorhynchus albirostris* (Gray, 1846). White­-beaked dolphin*Lagenorhynchus acutus* (Gray, 1828). Atlantic white-sided dolphin*Lagenorhynchus obliquidens* Gill, 1865. Pacific white-sided dolphin[*Lagenorhynchus obscurus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=431&Itemid=283) (Gray, 1828). Dusky dolphin*L. o. obscurus* (Gray, 1828). African dusky dolphin*L. o. fitzroyi* (Waterhouse, 1838). South American dusky dolphin*L. o. posidonia* (Philippi, 1893). Peruvian/Chilean dusky dolphin*L. o.* un-named subsp. New Zealand dusky dolphin*Lagenorhynchus australis* (Peale, 1848). Peale's dolphin*Lagenorhynchus cruciger* (Quoy and Gaimard, 1824). Hourglass dolphin*Lissodelphis borealis* Peale, 1848. Northern right-whale dolphin*Lissodelphis peronii* (Lacépède, 1804). Southern right-whale dolphin*Grampus griseus* (G. Cuvier, 1812). Risso's dolphin, gray grampus*Peponocephala electra* (Gray, 1846). Melon-headed whale, Electra dolphin*Feresa attenuata* Gray, 1874. Pygmy killer whale[*Pseudorca crassidens*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=463&Itemid=299) (Owen, 1846). False killer whale*Orcinus orca* (Linnaeus, 1758). Killer whale, orca*O. o.* un-named subsp. Resident killer whale*O. o.* un-named subsp. Transient killer whale[*Globicephala melas*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=519&Itemid=325) (Traill, 1809). Long-finned pilot whale*G. m. melas* (Traill, 1809). North Atlantic long-finned pilot whale*G. m. edwardii* (A. Smith, 1834). Southern long-finned pilot whale*G. m.* un-named subsp. North Pacific long-finned pilot whale[*Globicephala macrorhynchus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=521&Itemid=324) Gray, 1846. Short­-finned pilot whale*Orcaella brevirostris* (Owen *in* Gray, 1866). Ir­rawaddy dolphin, pesut*Orcaella heinsohni* Beasley, Robertson and Arnold, 2005. Australian snubfin dolphin**Family Phocoenidae (porpoises, 7 species)***Neophocaena phocaenoides* (G. Cuvier, 1829). Indo-Pacific fin­less porpoise*Neophocaena  asiaeorientalis* Pilleri and Gihr, 1972. Narrow-ridged finless porpoise*N. a. asiaeorientalis* Pilleri and Gihr, 1972. Yangtze finless porpoise*N. a. sunameri* Pilleri and Gihr, 1975. East Asian finless porpoise, sunameri[*Phocoena phocoena*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=412&Itemid=276) (Linnaeus, 1758). Harbor por­poise, common porpoise*P. p. phocoena* (Linnaeus, 1758). Atlantic harbor porpoise*P. p. vomerina* (Gill, 1865). Eastern Pacific harbor porpoise*P. p. relicta* Abel, 1905. Black Sea harbor porpoise*P. p.* un-named subsp. Western Pacific harbor porpoise[*Phocoena sinus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=501&Itemid=315) Norris and McFarland, 1958. Vaquita, Gulf of California harbor   porpoise*Phocoena spinipinnis* Burmeister, 1865. Burmeister's porpoise*Phocoena dioptrica* Lahille, 1912. Spectacled porpoise*Phocoenoides dalli* (True, 1885). Dall's porpoise, Dall porpoise*P. d. dalli* (True, 1885). *Dalli*-type Dall's porpoise*P. d. truei* Andrews, 1911. *Truei*-type Dall's porpoise **ORDER SIRENIA (sirenians, 5 species – 1 extinct)****Family Trichechidae** [*Trichechus manatus*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=414&Itemid=277) Linnaeus, 1758. West Indian manatee*T. m. manatus* Linnaeus, 1758. Antillean manatee*T. m. latirostris* (Harlan, 1824). Florida manatee*Trichechus senegalensis* Link, 1795. West African manatee*Trichechus inunguis* (Natterer, 1883). Amazonian manatee**Family Dugongidae** [*Dugong dugon*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=441&Itemid=287) (Müller, 1776). Dugong*Hydrodamalis gigas* (Zimmerman, 1780). Steller's sea cow - extinct***Footnotes***1Use of Order Cetartiodactyla is favored by most evolutionary mammalogists working with molecular data. Some others, including many marine mammalogists and paleontologists, favor retention of Order Cetacea in the interest of taxonomic stability.2(from D. Rice) Baker *et al.* (2003) hold that there is no evidence that would support the classification of the right whales as more than a single biological species.  [The three species are here recognized as phylogenetic species.]***References*** Agnarsson, I. and L. J. May-Collado. 2008. The phylogeny of Cetartiodactyla: the importance of dense taxon sampling, missing data, and the remarkable promise of cytochrome b to provide reliable species-level phylogenies. Molecular Phylogenetics and Evolution 48:964—985.Baker, A. N., A. N. H. Smith, and F. B. Pichler. 2002. Geographical variation in Hector's dolphin : recognition of a new subspecies of *Cephalorhynchus hectori.* Journal of the Royal Society of New Zealand 32:713—727.Baker, R. J., L. C. Bradley, R. D. Bradley, J. W. Dragoo, M  D., R. S. Hoffman, C. A Jones, F. Reid, D. W. Rice and C. Jones. 2003. Revised checklist of North American mammals north of Mexico, 2003. Museum of Texas Tech University Occasional Papers 229:1—24.Beasley, I., K. M. Robertson and P. Arnold.  2005.  Description of a new dolphin, the Australian snubfin dolphin *Orcaella heinsohni* sp. n. (Cetacea: Delphinidae).  Marine Mammal Science21: 365--400.Berta, A. and M. Churchill. In press. Pinniped taxonomy: review of currently recognized species and subspecies, and evidence used for their description. Mammal Review.Brunner, S. 2004. Fur seals and sea lions (Otariidae): identification of species and taxonomic review. Systematics and Biodiversity 1:339—439.Caballero, S., F. Trujillo, J. A. Vianna, H. Barrios-Garrido, M. G. Montiel, S. Beltrán-Pedreros, M. Marmontel, M. C. Santos, M. Rossi-Santos, F. R. Santos, and C. S. Baker.  2007.  Taxonomic status of the genus *Sotalia*: species-level ranking for "tucuxi" (*Sotalia fluviatilis*) and "costero" (*Sotalia guianensis*) dolphins.  Marine Mammal Science 23: 358--386.Cirpriano, F. 1997. Antitropical distriubitions and speciation in dolphins of the genus *Lagenorhynchus*: a preliminary analysis. Pages 305—316 in A. E. Dizon, S. J. Chivers and W. F. Perrin (eds). Molecular genetics of marine mammals. Society for Marine Mammalogy Special Publication 3.Clarke, R. 2004. Pygmy fin whales. Marine Mammal Science 20:329—334.Dalebout, M. L., J. G. Mead, C. S. Baker, A. N. Baker, and A. L. van Helden.  2002.  A new species of beaked whale *Mesoplodon perrini* sp. n. (Cetacea: Ziphiidae) discovered through phylogenetic analyses of mitochondrial DNA sequences. Marine Mammal Science 18:577--608.Dasmahapatra, K. K., J. I. Hoffman and W. Amos. 2009. Pinniped phylogenetic relationships inferred using AFLP markers. Heredity 103:168—177.de Queiroz, K. 2007. Species concepts and species delineation. Systematic Biology 56:879—886.Domning, D. 1996. Bibliography and index of the Sirenia and Desmostylia. Smithsonian Contributions to Paleobiology 80:1—611.Gaines, C. A., M. P. Hare, S. E. Beck and H. C. Rosenbaum. 2005. Nuclear markers confirm taxonomic status and relationships among highly endangered and closely related right whale species. Proceedings of the Royal Society B 272:533—542.Geisler, J. H. and M. D. Uhen.  2005.  Phylogenetic relationships of extinct cetartiodactyls: results of simultaneous analyses of molecular, morphological, and stratigraphic data.  Journal of Mammalian Evolution 12:145--160.Harlin-Cognato, A. D. 2010. The dusky dolphin's place in the delphinid family tree. Pages 1—20 *in* B. Würsig and M. Würsig (eds). The dusky dolphin. Master acrobat off different shores. Academic Press, Amsterdam.van Helden, A. L., A. N. Baker, M. L. Dalebout, J. C. Reyes, K. Van Waerebeek, and C. S. Baker.  2002.  Resurrection of *Mesoplodon traversii* (Gray, 1874), senior synonym of *M. bahamondi* Reyes, Van Waerebeek, Cárdenas and Yáñez, 1995 (Cetacea: Ziphiidae).Marine Mammal Science 18:609--621.International Whaling Commission.  2001. Report of the Scientific Committee*.* Journal of Cetacean Research and Management 3, Supplement:1--75*.*International Whaling Commission. 2008. Report of the Scientific Committee*.* Journal of Cetacean Research and Management 10, Supplement: 1--406*.*Jefferson, T. A. and K. Van Waerebeek. 2002. The taxonomic status of the nominal species *Delphinus tropicalis* van Bree, 1971.  Marine Mammal Science 18:787--818.Jefferson, T. A. and J. Y. Wang. 2011. Revision of the taxonomy of finless porpoises (genus *Neophocaena*): the existence of two species. Journal of Marine Animals and Their Ecology 4:3—16.Kato, H. and W. F. Perrin. 2009. Bryde's whales *Balaenoptera edeni/brydei*. Pages 158—163 *in* W. F. Perrin, B. Würsig and J. G. M. Thewissen, eds. Encyclopedia of Marine Mammals. Academic Press, Amsterdam.Krahn, M., M. J. Ford, W. F. Perrin, P. R. Wade, R. P. Angliss, M. B. Hanson, B. L. Taylor, G. M. Ylitalo, M. E. Dahlheim, J. E. Stein and R. S. Waples. 2004 Status Review of Southern Resident Killer Whales (*Orcinus orca*) under the Endangered Species Act. NOAA Technical Memorandum NMFS-NWFSC-62. 73pp.Larivière, S. 1998. *Lontra felina*. Mammalian Species575:1--5.Lindqvist, C., L. Bachmann, L. W. Andersen, E. W. Born, U. Arnason, K. M. Kovacs, C. Lydersen, A. V. Abramov and Ø. Wiig. 2008. The Laptev Sea walrus *Odobenus rosmarus laptevi*: an enigma revisited. Zoologica Scripta 38:113—127.McGowen, M. R. 2011. Toward the resolution of an explosive radiation—A multilocus phylogeny of oceanic dolphins (Delphinidae). Molecular Phylogenetics and Evolution 60:345—357.Natoli, A., A. Cañadas, C. Vaquero, E. Politi, P. Fernandez-Navarro and A. R. Hoelzel. 2008. Conservation genetics of the short-beaked common dolphin (*Delphinus delphis*) in the Mediterranean Sea and the eastern North Atlantic. Conservation Genetics 9:1479—1487.Orr, H. A. and J. A. Coyne. 2004. Speciation. Sinauer Associates, Sunderland, Massachusetts.Parra, G. J. and G. J. B. Ross. 2009. Humpback dolphins *S. chinensis* and *S. teuszii.* Pages 576—582 *in* W. F. Perrin, B. Würsig and J. G. M. Thewissen, eds. Encyclopedia of Marine Mammals. Academic Press, Amsterdam.Perrin, W. F. 2009. Species. Pages 1084—1087 *in* W. F. Perrin, B. Würsig and J. G. M. Thewissen, eds. Encyclopedia of Marine Mammals. Academic Press, Amsterdam.Perrin, W. F., M. L. L. Dolar and D. Robineau. 1999. Spinner dolphins (*Stenella longirostris*) of the western Pacific and Southeast Asia: pelagic and shallow-water forms. Marine Mammal Science 15:1029—1053.Perrin, W. F., J. G. Mead and R. L. Brownell, Jr. 2009. Review of the evidence used in the description of currently recognized cetacean subspecies. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC. In press.Phillips, C. D., J. W. Bickham, J. C. Patton and T. S. Gelatt. 2009. Systematics of Steller sea lions (*Eumetopias jubatus*): subspecies recognition based on concordance of genetics and morphometrics.  Museum of Texas Tech University Occasional Papers 283:1—15.Price, S. A., O. R. P. Bininda-Edmonds and J. L. Gittleman. 2005. A complete phylogeny of the whales, dolphins and even-toed hoofed mammals (Cetartiodactyla). Biological Review 80:445—473.Reeves, R. R., W. F. Perrin, B. L. Taylor, C. S. Baker and S. L. Mesnick, eds. 2004. Report of the Workshop on Shortcomings of Cetacean Taxonomy in Relation to Needs of Conservation and Management, April 30—May 2, 2004 La Jolla, California. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-363:1—94.Rice, D. W. 1998. Marine mammals of the world. Systematics and distribution. Society for Marine Mammalogy Special Publication 4:1--231.Robineau, D. , R. N. P. Goodall, F. Pichler, and C. S. Baker. 2007. Description of a new subspecies of Commerson's dolphin, *Cephalorhynchus commersonii* (Lacépède, 1804) inhabiting the coastal waters of the Kerguelen Islands. Mammalia 2007:172—180.Rosenbaum, H., R. L. Brownell, Jr., M. W. Brown, C. Schaeff, Y. Port­way, B. N. White, S. Malik, L. A.  Pastene, N. J. Patenaude, C. S. Baker, M. Goto, P. B. Best, P. J. Clapham, P. Hamilton, R. Payne, V. Rowntree, C. T. Tynan, J. L. Bannister, R. and DeSalle. 2000. World-wide genetic differentiation of *Eubalaena* ques­tioning the number of right whale species. Molecular Ecology 9:1793--1802.Sasaki, T., M. Nikaido, S. Wada, T. K. Yamada, Y. Cao, M. Hasegawa, and N. Okada.  2006.  *Balaenoptera omurai* is a newly discovered baleen whale that represents an ancient evolutionary lineage.  Molecular Phylogenetics and Evolution 41:40--52.Spaulding, M., M. A. O’Leary and J. Gatesy. 2009. Relationships of Cetacea (Artiodactyla) among mammals: increased taxon sampling alters interpretations of key fossils and character evolution. PLoS ONE 4:1—14.Viaud-Martinez, M. Martinez Vergara, P. E. Gol'din, V. Ridoux, A. A.,Özturk, B. Özturk, P. E. Rosel, A. Frantzis, A. Komnenou, and A. J. Bohanak. 2007. Morphological and genetic differentiation of the Black Sea harbour porpoise *Phocoena phocoena*. Marine Ecology Progress Series 338:281—294. Viaud-Martinez, K. A., R. L. Brownell, Jr., A. Komnenou, and A. J. Bohanak. 2008. Genetic isolation and morphological divergence of Black Sea bottlenose dolphins. Biological Conservation 141:1600—1611.Wada, S., M. Oishi and T. K. Yamada.  2003.  A newly discovered species of living baleen whale.  Nature426:278--281.Wang, J. Y., T. R. Frasier, S. C. Yang and B. N. White. 2008. Detecting recent speciation events: the case of the finless porpoise (genus *Neophocaena*). Heredity 101:145—155.ivider*Last updated 13 December 2011 by members of the Ad Hoc* [*Committee on Taxonomy*](http://www.marinemammalscience.org/index.php?option=com_content&view=article&id=45&Itemid=55#taxonomy)*:** William F. Perrin (Chair)
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