

Species List 42.1 Marine mammals reported from the Caribbean coast of Costa Rica, Central America: taxonomic nomenclature based on Rice (1998)

Species	World distribution ^a	Costa Rica		Status ^e	References ^f
		Central America ^b	Ocurrence ^c		
Order Carnivora					
Suborder PINNIPEDIA					
Family Phocidae					
<i>Monachus tropicalis</i> Gray, 1850	Car	CA, B	-	Ex	[5, 17, 25, 26]
Order SIRENIA					
Family TRICHECHIDAE					
<i>Trichechus manatus manatus</i> Linnaeus, 1778	Car, EA, WA	B, G, H, N, P	O	VUA lcd C2a	[8, 22, 23, 25, 26, 27, 29]
Order CETACEA					
Suborder MYSTICETI					
Family BALAENOPTERIDAE					
<i>Balaenoptera acutorostrata</i> Lacépède, 1804	cp(except RS)	CA, P	E	LR/nt, I	[10, 19, 25]
<i>Balaenoptera borealis</i> Lesson, 1828	cp	CA, P	E	ENAI abd, I	[10, 19, 25]
<i>Balaenoptera edeni</i> Anderson, 1878	Car, EA, EP, IO, IP, WP, WA	CA, P	E	DD, I	[10, 19, 25]
<i>Balaenoptera musculus</i> , Linnaeus 1758	cp (except RS, Med)	CA, P	E	ENAI abd, I	[10, 19, 25]
<i>Balaenoptera physalus</i> Linnaeus, 1758	cp (except RS)	CA, P	E	ENAI abd, I	[10, 19, 25]
Suborder ODONTOCETI					
Family PHYSETERIDAE					
<i>Physeter macrocephalus</i> Linnaeus, 1758	Ant, EA, EP, WA, WP, IO, IP, Med	CA, P	E	VUA lbd I	[10, 19, 25]
Family KOGIIDAE					
<i>Kogia breviceps</i> de Blainville, 1838	EA, EP, WA, WP, IO	CA, P	E	LR/lc*	[10, 19, 25]
<i>Kogia sima</i> Owen, 1866	EA, EP, WA, WP, IO, IP	CA, P	E	LR/lc*	[10, 19, 25]
Family ZIPHIIDAE					
<i>Mesoplodon densirostris</i> de Blainville, 1817	Car, EA, EP, WA, WP, IO, IP, Med	CA, P	E	DD	[10, 19, 25]
<i>Mesoplodon europaeus</i> Gervais, 1855	Car, EA	CA	E	DD	[10, 19, 25]
<i>Ziphius cavirostris</i> Cuvier, 1823	EA, EP, WA, WP, IO, IP, Med	CA, P	E	DD	[10, 19, 25]
Family DELPHINIDAE					
<i>Delphinus delphis</i> Linnaeus, 1758	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, B, P	E	DD*	[10, 19, 25]

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Species List 42.1 (continued)

Species	World distribution ^a	Central America ^b	Costa Rica Occurrence ^c	Oceanic distribution ^d	Status ^e	References ^f
<i>Feresa attenuata</i> Gray, 1874	Car, EA, EP, WA, WP, IO, IP, Med	CA, B, P	E	P	DD	[10, 19, 25]
<i>Globicephala macrorhynchus</i> Gray, 1846	Car, EA, EP, WA, WP, IO, IP	CA, B, P	O	CP	LR/cd	[10, 19, 25, 32]
<i>Grampus griseus</i> Cuvier, 1812	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, B, P	E	P	DD	[10, 19, 25]
<i>Lagenodelphis hosei</i> Fraser, 1956	EP, WA, IO	CA, B, P	E	P	DD	[10, 19, 25]
<i>Peponocephala electra</i> Gray, 1846	Car, EA, EP, WA, WP, IO, IP	CA, B, P	E	P	LR/lc*	[10, 19, 25]
<i>Pseudorca crassidens</i> Owen, 1846	Car, EA, EP, WA, WP, IO, IP, RS	CA, B, P	E	CP	LR/lc*	[10, 19, 25]
<i>Orcinus orca</i> Linnaeus, 1758	cp	CA, B, P	E	CP	LR/cd	[10, 19, 25]
<i>Sotalia guianensis</i> Van Bénédén, 1864	Car, WA	N, P	C	C	DD, I	[8, 9, 12, 25, 32]
<i>Stenella attenuata</i> Gray, 1846	Car, EA, EP, WA, WP, IO, IP, RS	CA, B, P	O	CP	LR/cd	[10, 19, 25]
<i>Stenella longirostris</i> Gray, 1828	Car, EA, EP, WA, WP, IO, IP, RS	CA, B, P	E	CP	LR/cd	[10, 19, 25]
<i>Stenella coeruleoalba</i> Meyen, 1833	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, B, P	E	P	LR/cd	[10, 19, 25]
<i>Stenella clymene</i> Gray, 1850	Car, EA, WA	CA, B, P	E	P	DD	[10, 19, 25]
<i>Stenella frontalis</i> Cuvier, 1829	Car, EA, WA	CA, B, P	F	CP	DD	[10, 19, 25, 31]
<i>Steno bredanensis</i> Lesson, 1828	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, B, P	F	CP	DD	[10, 19, 25]
<i>Tursiops truncatus</i> Montagu, 1821	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, B, P	C	CP	DD	[10, 19, 12, 25, 32]

^a Ant = Antarctic; Car = Caribbean; cp = cosmopolitan; EA = eastern Atlantic; EP = eastern Pacific; IO = Indian Ocean; IP = Indo-Pacific; Med = Mediterranean; RS = Red Sea; WA = western Atlantic; WP = western Pacific

^b CA = all Central American countries; B = Belize; G = Guatemala, H = Honduras, N = Nicaragua; P = Panama

^c C = common; E = expected; F = frequent; O = occasional

^d C = Coastal populations, P = Pelagic populations, CP = both coastal and pelagic populations, R = riverine

^e IUCN Red List (1996, 2000, [http://www/redlist.org](http://www.redlist.org)). DD = data deficient; LR/cd = lower risk taxon-specific or habitat-specific; LR/nt = Lower Risk taxa close to be qualify as Vulnerable; LR/lc = ; Lower Risk taxa do not qualify for conservation-dependent or near-threatened; ENA1 abd = Endangered, population reduction in form of direct observation, index of abundance appropriate to the taxon, decline in area of occupancy, extent of occurrence, and/or quality of habitat; VU1cdC2a = vulnerable, observed, estimated, inferred, or suspected reduction of at least 20% the last 10 years or three generations based on decline in area of occupancy, extent of occurrence and/or quality of habitat, actual, or potential levels of exploitation, population estimated to less than 10,000 mature individuals and either continuing decline, severely fragmented (i.e. no subpopulation estimated to contain more than 1,000 mature individuals); VU/Abd = vulnerable observed, estimated, inferred, or suspected reduction of at least 20% the last 10 years or three generations based on an index of abundance appropriate for the taxon and actual or potential levels of exploitation; Ex = extinct, I = Appendix I of CITES (<http://www.cites.org/>)

^fReferences are indicated by numbers according to the reference list

Species List 42.2 Marine mammals reported from the Pacific coast of Costa Rica, Central America: taxonomic nomenclature based on Rice (1998).

Species	World distribution ^a	Central America ^b	Costa Rica Pacific ^c	Occurrence ^d	Oceanic distribution ^e	Status ^f	References ^g
Order CARNIVORA							
Suborder PINNIPEDIA							
Family OTARIIDAE							
<i>Zalophus californianus</i> Lesson, 1828	EP	CA	PM, IC	A	C	LC/ed	[1, 11, 15, 25]
<i>Zalophus wolfebaeki</i> Sivertsen, 1953	EP	CA	IC	A	C	DD	[15, 25]
Order CETACEA							
Family BALAENOPTERIDAE							
<i>Balaenoptera acutorostrata</i> Lacépède, 1804	cp (except RS)	CA, P	O	E	P	LR/nt, I	[10, 19, 25, 31]
<i>Balaenoptera borealis</i> Lesson, 1828	cp	CA, P	O, IC	E	P	ENAI abd, I	[6, 10, 17, 18, 19, 21, 25, 31]
<i>Balaenoptera edeni</i> Anderson, 1878	Car, EA, EP, IO, IP, WP, WA	CA, P	PM, O, IC	O	CP	DD, I	[6, 10, 14, 17, 18, 19, 21, 25, 31]
<i>Balaenoptera musculus</i> , Linnaeus, 1758	Cp (except RS, Med)	N, P	IC, O	O	P	ENAI abd, I	[10, 14, 17, 18, 19, 21, 25, 28, 31]
<i>Balaenoptera physalus</i> , Linnaeus, 1758	Cp (except RS)	CA, P	O, IC	E	P	ENAI abd, I	[6, 10, 17, 18, 19, 21, 25, 31]
<i>Megaptera novaeangliae</i> Borowski, 1781	Ant, EA, EP, WA, WP, IO, IP, Med	CA, P	PM, IC	F	C	VUA lbd, I	[2, 6, 7, 10, 17, 18, 19, 21, 24, 25, 30, 31]
Family PHYSETERIDAE							
<i>Physeter macrocephalus</i> Linnaeus, 1766	Ant, EA, EP, WA, WP, IO, IP, Med	CA, P	O, IC	O	CP	VUA lbd, I	[6, 10, 14, 17, 18, 19, 21, 25, 31]
Family KOGIIDAE							
<i>Kogia breviceps</i> de Blainville, 1838	EA, EP, WA, WP, IO	CA, P	O	E	P	LR/ic*	[10, 17, 18, 19, 21, 25, 31]
<i>Kogia sima</i> Owen, 1866	EA, EP, WA, WP, IO, IP	CA, P	O	O	P	LR/ic*	[10, 17, 18, 19, 25, 31]

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Species List 42.2 (continued)

Species	World distribution ^a	Central America ^b	Costa Rica Pacific ^c	Occurrence ^d	Oceanic distribution ^e	Status ^f	References ^g
<i>Mesoplodon densirostris</i> Blainville, 1817	Car, EA, EP, WA, WP, IO, IP, Med	CA, P	O, IC	R	P	DD	[10, 17, 18, 19, 21, 25, 31]
<i>Mesoplodon peruvianus</i> Reyes, Mead, & Van-Waerebeek, 1991	EP	CA, P	O	E	P	DD	[10, 17, 18, 19, 25, 31]
<i>Mesoplodon</i> spp.	EP	CA	PM, O, IC	O	P	?	[10, 17, 18, 19, 21, 25]
<i>Ziphius cavirostris</i> Cuvier, 1823	EA, EP, WA, WP, IO, IPMed	CA, P	PM, O, IC	O	CP	DD	3, 10, 17, 18, 19, 21, 25, 31
Family DELPHINIDAE							
<i>Delphinus delphis</i> Linnaeus, 1758	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, P	O	C	P	DD*	[6, 10, 14, 17, 18, 19, 21, 25, 31]
<i>Feresa attenuata</i> Gray, 1874	Car, EA, EP, WA, WP, IO, IP, Med	CA, P	O	E	P	DD	[10, 17, 18, 19, 25, 31]
<i>Globicephala macrorhynchus</i> Gray, 1846	Car, EA, EP, WA, WP, IO, IP	CA, P	PM, O, IC	C	CP	LR/ed	[6, 10, 14, 17, 18, 19, 21, 31]
<i>Grampus griseus</i> Cuvier, 1812	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, P	O, IC	C	P	DD	[10, 14, 17, 18, 19, 21, 25, 31]
<i>Lagenodelphis hosei</i> Fraser, 1956	EP, WA, IO	CA, P	O	R	P	DD	[10, 17, 18, 19, 21, 25, 31]
<i>Peponocephala electra</i> Gray, 1846	Car, EA, EP, WA, WP, IO, IP	CA, P	O	R	P	LR/lc*	10, 14, 17, 18, 19, 21, 25, 31
<i>Pseudorca crassidens</i> Owen, 1846	Car, EA, EP, WA, WP, IO, IP, RS	CA, P	O	R	CP	LR/lc*	[4, 6, 10, 14, 17, 18, 19, 21, 25, 31]
<i>Orcinus orca</i> Linnaeus, 1758	cp	CA, P	PM, O, IC	R	CP	LR/ed	[6, 10, 13, 14, 17, 18, 19, 21, 25, 31]
<i>Stenella attenuata</i> Gray, 1846	Car, EA, EP, WA, WP, IO, IP, RS	CA, P	PM, O	C	CP	LR/ed	[6, 10, 14, 17, 18, 19, 20, 21, 25, 31]
<i>Stenella longirostris</i> Gray, 1828	Car, EA, EP, WA, WP, IO, IP, RS	CA	PM, O, IC	F	CP	LR/ed	[6, 10, 14, 17, 18, 19, 21, 25, 31]
<i>Stenella coeruleoalba</i> Meyen, 1833	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, P	PM, O, IC	C	P	LR/ed	[10, 14, 17, 18, 19, 21, 25, 31]

<i>Steno bredanensis</i> Lesson, 1828	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, P	PM, O	F	CP	DD	[6, 10, 14, 17, 18, 19, 21, 25, 31]
<i>Turtops truncatus</i> Montagu, 1821	Car, EA, EP, WA, WP, IO, IP, Med, RS	CA, P	PM, O, IC	C	CP	DD	[3, 6, 10, 14, 17, 18, 19, 21, 25, 31]

^aAnt = Antarctic; Car = Caribbean; cp = cosmopolitan; EA = eastern Atlantic; EP = eastern Pacific; IO = Indian Ocean; IP = Indo-Pacific; Med = Mediterranean; RS = Red Sea; WA = western Atlantic; WP = western Pacific

^bCA = all Central American countries; N = Nicaragua; P = Panama

^cPM = Pacific mainland; IC = Isla del Coco; O = Pacific offshore

^dA = accidental; C = common; E = expected; F = frequent; O = occasional; R = rare

^eC = Coastal populations, P = Pelagic populations; CP = both coastal and pelagic populations

^fIUCN Red List (1996, 2000, [http://www/redlist.org](http://www.redlist.org)) DD = data deficient; LR/cd = lower risk taxon-specific or habitat-specific; LR/nt = lower risk taxa close to be qualify as vulnerable; LR/lc = lower risk taxa do not qualify for conservation-dependent or near-threatened; ENA lbd = endangered, population reduction in form of direct observation, index of abundance appropriate to the taxon, decline in area of occupancy, extent of occurrence, and/or quality of habitat; VUA lbd = vulnerable, observed, estimated, inferred, or suspected reduction of at least 20% the last 10 years or three generations based on direct observation and actual or potential levels of exploitation; VUA lbd = vulnerable observed, estimated, inferred or suspected reduction of at least 20% the last 10 years or three generations based on an index of abundance appropriate for the taxon and actual or potential levels of exploitation; Ex = extinct, I = Appendix I of CITES (<http://www.cites.org/>)

^gReferences specified by numbers in the reference list