

Population estimates and 1% thresholds for wetland-dependent non-avian animal species, for the application of Criterion 9

This initial listing has been compiled by the Convention's Scientific and Technical Review Panel (STRP) in association with IUCN's Species Survival Commission (SSC). Population estimates for this initial list are available largely for globally-threatened species, from published sources. The Ramsar STRP and the IUCN-SSC have agreed a procedure for further developing and updating this list through IUCN's Web-based Species Information Service (SIS). It is intended that progressively, as information becomes available, the list will be updated and extended to include population estimates for other wetland-dependent non-avian species, whether or not they are globally-threatened.

Where population ranges are given, 1% thresholds are derived from the mid-point of the range, other than for globally threatened species where they are derived, on a precautionary basis, from the range minimum.

Criterion 9 should be applied only to those species/populations for which a 1% population threshold is provided, unless other verified sources for a population estimate are provided.

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Crocodylia	Alligatoridae	<i>Alligator mississippiensis</i>	American Alligator						Ross (1998)	
Crocodylia	Alligatoridae	<i>Alligator sinensis</i>	Chinese Alligator	World population	800-1,000		8	CR	Ross (1998)	
Crocodylia	Alligatoridae	<i>Caiman crocodilus</i>	Common Caiman						Ross (1998)	
Crocodylia	Alligatoridae	<i>Caiman crocodilus crocodilus</i>	Common Caiman	Orinoco, llanos, Amazon from Colombia through Brazil, N & E of Bolivia to Peru					Ross (1998)	
Crocodylia	Alligatoridae	<i>Caiman crocodilus fuscus</i>	Common Caiman	Atlantic coastal drainage of Colombia to W Venezuela					Ross (1998)	
Crocodylia	Alligatoridae	<i>Caiman crocodilus chiapasius</i>	Common Caiman	C America, Mexico to Pacific Colombia to Gulf of Uruba					Ross (1998)	Possibly synonymous with <i>C. c. fuscus</i> ?
Crocodylia	Alligatoridae	<i>Caiman crocodilus apaporiensis</i>	Common Caiman	Upper Apaporis river of Colombia					Ross (1998)	Very restricted range

RIS Annex: Non-avian animal species, page 2

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Crocodylia	Alligatoridae	<i>Caiman crocodilus yacare</i>	Common Caiman	S Brazil through Bolivia, Peru & Argentina					Ross (1998)	(? = <i>C. yacare</i>)
Crocodylia	Alligatoridae	<i>Caiman latirostris</i>	Broad-snouted Caiman						Ross (1998)	
Crocodylia	Alligatoridae	<i>Caiman yacare</i>	Yacare						Ross (1998)	
Crocodylia	Alligatoridae	<i>Melanosuchus niger</i>	Black Caiman					LR-CD	Ross (1998); IUCN 2000	
Crocodylia	Alligatoridae	<i>Paleosuchus palpebrosus</i>	Dwarf Caiman					EN	Ross (1998)	
Crocodylia	Alligatoridae	<i>Paleosuchus trigonatus</i>	Smooth-fronted Caiman						Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus acutus</i>	American Crocodile					VU	Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus cataphractus</i>	Slender-snouted Crocodile/ African Gavia					DD	Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus intermedius</i>	Orinoco Crocodile					CR	Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus johnsoni</i>	Australian Freshwater Crocodile/Freshie						Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus johnsoni</i>	Australian Freshwater Crocodile/Freshie	North Western Territories	30,000-60,000		450		Webb <i>et al.</i> (1987)	
Crocodylia	Crocodylidae	<i>Crocodylus mindorensis</i>	Philippine Crocodile		500-1,000		5	CR	Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus moreletii</i>	Morelet's Crocodile/Belize Crocodile					LR-CD	Ross (1998); IUCN 2000	
Crocodylia	Crocodylidae	<i>Crocodylus niloticus</i>	Nile Crocodile						Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus novaeguineae</i>	New Guinea Crocodile						Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus palustris</i>	Mugger	World population				VU	Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus</i>	Mugger	Sri Lanka	2,000		20	VU	Ross (1998)	

RIS Annex: Non-avian animal species, page 3

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
		<i>palustris</i>								
Crocodylia	Crocodylidae	<i>Crocodylus palustris</i>	Mugger	India	3,000-5,000		30	VU	Anon. 1993	
Crocodylia	Crocodylidae	<i>Crocodylus porosus</i>	Saltwater Crocodile	World population					Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus porosus</i>	Saltwater Crocodile	India	1,000		10		Anon. 1993	
Crocodylia	Crocodylidae	<i>Crocodylus porosus</i>	Saltwater Crocodile	Myanmar	<4,000		40		Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus porosus</i>	Saltwater Crocodile	S. Vietman & Mekong Delta	<100		1		Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus porosus</i>	Saltwater Crocodile	Palau (Caroline Islands)	<150		1		Messel & King (1992)	
Crocodylia	Crocodylidae	<i>Crocodylus porosus</i>	Saltwater Crocodile	Solomon Islands	200		2		Messel & King (1990)	
Crocodylia	Crocodylidae	<i>Crocodylus rhombifer</i>	Cuban Crocodile	World population	3,000-6,000		3	EN	Ross (1998)	
Crocodylia	Crocodylidae	<i>Crocodylus siamensis</i>	Siamese Crocodile					CR	Ross (1998)	
Crocodylia	Crocodylidae	<i>Osteolaemus tetraspis</i>	Dwarf Crocodile					VU	Ross (1998); IUCN (2000)	
Crocodylia	Crocodylidae	<i>Osteolaemus tetraspis osborni</i>	Dwarf Crocodile					VU	Ross (1998); IUCN (2000)	
Crocodylia	Crocodylidae	<i>Tomistoma schlegelii</i>	Tomistoma					DD	Ross (1998)	
Crocodylia	Gavialidae	<i>Gavialis gangeticus</i>	Gharial					EN	Ross (1998)	
Crocodylia	Gavialidae	<i>Gavialis gangeticus</i>	Gharial	India	>1,500		15	EN	Anon. (1993)	
Crocodylia	Gavialidae	<i>Gavialis gangeticus</i>	Gharial	Nepal	130		1	EN	Maskey & Percival (1994)	
Testudines	Pelomedusidae	<i>Podocnemis expansa</i>	Arrau/Giant South American Turtle					LR-CD	IUCN (2000)	

RIS Annex: Non-avian animal species, page 4

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Testudines	Bataguridae	<i>Morenia petersi</i>	Indian Eyed Turtle					VU	IUCN (2000)	
Testudines	Bataguridae	<i>Heosemys grandis</i>	Giant Asian Pond Turtle					VU	IUCN (2000)	
Testudines	Bataguridae	<i>Malayemys subtrijuga</i>						VU	IUCN (2000)	
Testudines	Bataguridae	<i>Siebenrockiella crassicollis</i>						VU	IUCN (2000)	
Testudines	Bataguridae	<i>Rhinoclemmys rubida</i>	Mexican Spotted Terrapin					VU	IUCN (2000)	
Testudines	Bataguridae	<i>Notochelys platynota</i>	Malayan Flat-shelled Turtle					VU	IUCN (2000)	
Testudines	Bataguridae	<i>Morenia ocellata</i>	Bengal Eyed Terrapin					VU	IUCN (2000)	
Testudines	Bataguridae	<i>Cuora amboinensis</i>	South Asian Box Turtle					VU	IUCN (2000)	
Testudines	Bataguridae	<i>Geoclemys hamiltonii</i>	Black Pond Turtle					VU	IUCN (2000)	
Testudines	Bataguridae	<i>Hardella thurjii</i>	Crowned River Turtle					VU	IUCN (2000)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	World population	[22,000-27,000]				MacDonald (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	East Greenland	2,000	1997	20		IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Barents Sea	2,000-5,000	1982	35		IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Kara Sea					IUCN Polar Bear Specialist Group (2001)	

RIS Annex: Non-avian animal species, page 5

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Laptev Sea	800-1,200	1993	10		IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Chukchi Sea	>2,000	1997	20		IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Southern Beaufort Sea	1,800	2001	18		IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Northern Beaufort Sea	1,200	1987	12		IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Queen Elizabeth Islands	200	1995	2		IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Viscount Melville Sound	230	1992	2		IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Norwegian Bay	100	1979			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Lancaster Sound	1,700	1996			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	M'Clintock Channel	350	2001			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Gulf of Boothia	900	1986			IUCN Polar Bear Specialist Group (2001)	

RIS Annex: Non-avian animal species, page 6

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Foxe Basin	2,300	1996			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Western Hudson Bay	1,200	1997			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Southern Hudson Bay	1,000	1986			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Kane Basin	200	1996			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Baffin Bay	2,200	1996			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Davis Strait	1,400	1996			IUCN Polar Bear Specialist Group (2001)	
Carnivora	Ursidae	<i>Ursus maritimus</i>	Polar Bear	Arctic Basin					IUCN Polar Bear Specialist Group (2001)	
Carnivora	Felidae	<i>Felis (Prionailurus) bengalensis</i>	Leopard Cat						MacDonald (2001)	
Carnivora	Felidae	<i>Felis (Prionailurus) iriomotensis</i>	Iriomote Cat					EN	MacDonald (2001)	
Carnivora	Felidae	<i>Felis (Prionailurus) planiceps</i>	Flat-headed Cat					VU	MacDonald (2001)	
Carnivora	Felidae	<i>Felis (Prionailurus) viverrinus</i>	Fishing Cat					LR	MacDonald (2001)	
Carnivora	Mustelidae	<i>Mustela vison</i>	American Mink	[14 races]					MacDonald (2001)	

RIS Annex: Non-avian animal species, page 7

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Carnivora	Mustelidae	<i>Mustela lutreola</i>	European Mink	[seven races]				EN	MacDonald (2001)	
Carnivora	Mustelidae	<i>Lontra canadensis</i>	North American River Otter						MacDonald (2001)	
Carnivora	Mustelidae	<i>Lontra felina</i>	Marine Otter					EN	MacDonald (2001)	
Carnivora	Mustelidae	<i>Lontra provocax</i>	Southern River Otter					EN	MacDonald (2001)	
Carnivora	Mustelidae	<i>Lontra longicaudis</i>	Neotropical River Otter						MacDonald (2001)	includes <i>L. anectens</i> , <i>L. plantensis</i> , <i>L. incarum</i> , <i>L. enudris</i> , <i>L. insularis</i> , <i>L. repanda</i> & <i>L. latidens</i>
Carnivora	Mustelidae	<i>Lutra lutra</i>	European River Otter					VU	MacDonald (2001)	
Carnivora	Mustelidae	<i>Lutra sumatrana</i>	Hairy-nosed Otter					VU	MacDonald (2001)	
Carnivora	Mustelidae	<i>Lutra maculicollis</i>	Spot-nosed Otter					VU	MacDonald (2001)	
Carnivora	Mustelidae	<i>Lutrogale perspicillata</i>	Smooth-coated Otter					VU	MacDonald (2001)	
Carnivora	Mustelidae	<i>Amblyonyx cinereus</i>	Short-clawed Otter					LR	MacDonald (2001)	
Carnivora	Mustelidae	<i>Aonyx capensis</i>	Cape clawless Otter						MacDonald (2001)	
Carnivora	Mustelidae	<i>Aonyx congicus</i>	Congo clawless Otter						MacDonald (2001)	
Carnivora	Mustelidae	<i>Pteronura brasiliensis</i>	Giant Otter					EN	MacDonald (2001)	
Carnivora	Mustelidae	<i>Enhydra lutris</i>	Sea Otter					EN	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Callorhinus ursinus</i>	Northern Fur Seal	Pribilof Island, East Bering Sea	900,000	1993	9,000	VU	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Callorhinus ursinus</i>	Northern Fur Seal	Commander island, West Bering Sea	225,000-230,000	1993	2,300	VU	MacDonald (2001)	

RIS Annex: Non-avian animal species, page 8

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Pinnipedia	Otariidae	<i>Callorhinus ursinus</i>	Northern Fur Seal	Robben Island, Sea of Okhotsk	55,000-65,000	1993	550	VU	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Callorhinus ursinus</i>	Northern Fur Seal	Kuril Island, West Pacific	50,000-55,000	1993	500	VU	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Callorhinus ursinus</i>	Northern Fur Seal	San Miguel Island, California	4,000	1993	40	VU	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus gazella</i>	Antarctic Fur Sea	World population	1,300,000 - 1,700,000	1990-91	15,000		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus townsendi</i>	Guadalupe Fur Sea	World population	6,000	1987	60	VU	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus philippi</i>	Juan Fernández Fur Seal	World population	12,000	1990-91	120	VU	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus galapagoensis</i>	Galápagos Fur Seal	World population	40,000	1978-1988/89	400	VU	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus australis</i>	South American Fur Seal						MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus australis</i>	South American Fur Seal	<i>Arctocephalus australis australis</i> (Falklands/Malvinas)	15,000-16,000	1993	155		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus australis</i>	South American Fur Seal	<i>Arctocephalus australis gracilis</i> (mainland South America)	307,000	1993	3,070		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus pusillus</i>	Cape Fur Seal						MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus pusillus</i>	Cape or South African Fur Seal	<i>Arctocephalus pusillus pusillus</i>	2,000,000	early 1990s	20,000		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus pusillus</i>	Australian Fur Seal	<i>Arctocephalus pusillus doriferus</i>	30,000-50,000	1991	400		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus forsteri</i>	New Zealand Fur Seal	South coast of Australia	27,200	1989-90	270		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus forsteri</i>	New Zealand Fur Seal	New Zealand	30,000-50,000		400		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Arctocephalus tropicalis</i>	Subantarctic Fur Seal	World population	310,000	1987-1990	3100		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Eumetopias jubatus</i>	Steller's Sea Lion	World population	110,000	1989	1,100	EN	MacDonald (2001)	

RIS Annex: Non-avian animal species, page 9

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Pinnipedia	Otariidae	<i>Zalophus californianus</i>	Callifornian Sea Lion						MacDonald (2001)	
Pinnipedia	Otariidae	<i>Zalophus californianus</i>	Callifornian Sea Lion	<i>Zalophus californianus wollebaeki</i>	30,000	1979	300		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Zalophus californianus</i>	Callifornian Sea Lion	<i>Zalophus californianus japonicus</i>	0			EXTINCT	MacDonald (2001)	
Pinnipedia	Otariidae	<i>Zalophus californianus</i>	Callifornian Sea Lion	<i>Zalophus californianus californianus</i> (Pacific Coast)		1999			MacDonald (2001)	Combined populations = 204,000-214,000
Pinnipedia	Otariidae	<i>Zalophus californianus</i>	Callifornian Sea Lion	<i>Zalophus californianus californianus</i> (Gulf of California)		1999			MacDonald (2001)	Combined populations = 204,000-214,001
Pinnipedia	Otariidae	<i>Otaria flavescens</i>	South American Sea Lion	World population	155,000	1973-1982	1,550		MacDonald (2001)	Probably under-estimate of population
Pinnipedia	Otariidae	<i>Neophoca cinerea</i>	Australian Sea Lion	World population	10,000-12,000		110		MacDonald (2001)	
Pinnipedia	Otariidae	<i>Phocarttis hookeri</i>	New Zealand Sea Lion	World population	10,000-15,000	1992	100	VU	MacDonald (2001)	
Pinnipedia	Odobenidae	<i>Odobenus rosmarus</i>	Walrus						MacDonald (2001)	
Pinnipedia	Odobenidae	<i>Odobenus rosmarus</i>	Atlantic Walrus	<i>Odobenus rosmarus rosmarus</i>					MacDonald (2001)	
Pinnipedia	Odobenidae	<i>Odobenus rosmarus</i>	Pacific Walrus	<i>Odobenus rosmarus divergens</i>	200,000-250,000		2,250		MacDonald (2001)	
Pinnipedia	Odobenidae	<i>Odobenus rosmarus</i>	Laptev Walrus	<i>Odobenus rosmarus laptevi</i>					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Monachus schauinslandi</i>	Hawaiian Monk Seal	World population	1,400		14	EN	MacDonald (2001)	
Pinnipedia	Phocidae	<i>Monachus monachus</i>	Mediterranean Monk Seal	World population	400-500		4	CR	MacDonald (2001)	
Pinnipedia	Phocidae	<i>Miriunga angustirostris</i>	Northern Elephant Seal	World population	125,000		1250		MacDonald (2001)	
Pinnipedia	Phocidae	<i>Miriunga leonina</i>	Southern Elephant Seal	World population	700,000-800,000		7,500		MacDonald (2001)	

RIS Annex: Non-avian animal species, page 10

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Pinnipedia	Phocidae	<i>Mirionga leonina</i>	Southern Elephant Seal	S. Georgia; Falkland, Gough & S. Shetland Islands; mainland Antarctic Peninsula; Patagonia N. to Valdes Peninsula					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Mirionga leonina</i>	Southern Elephant Seal	Kerguelen, Heard, Marion and Crozet Islands					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Mirionga leonina</i>	Southern Elephant Seal	Macquarie and Campbell Islands					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Lobodon carcinophagus</i>	Crabeater Seal	World population	11,000,000-12,000,000		115,000		MacDonald (2001)	
Pinnipedia	Phocidae	<i>Leptonychotes weddellii</i>	Weddell Seal	World population	>750,000		7500		MacDonald (2001)	Poor quality estimate
Pinnipedia	Phocidae	<i>Hydrurga leptonyx</i>	Leopard Seal	World population	300,000-500,000	1968-1983	4,000		MacDonald (2001)	
Pinnipedia	Phocidae	<i>Ommatophoca rossii</i>	Ross Seal	World population	200,000	1984	2000		MacDonald (2001)	
Pinnipedia	Phocidae	<i>Erignathus barbatus</i>	Bearded Seal	<i>Erignathus barbatus barbatus</i> (Atlantic basin)					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Erignathus barbatus</i>	Bearded Seal	<i>Erignathus barbatus nauticus</i> (W. Canadian arctic to central Siberia)	450,000	early 1980s	4,500		MacDonald (2001)	Incomplete estimate for the Pacific
Pinnipedia	Phocidae	<i>Phoca vitulina</i>	Harbor Seal	World population	500,000				MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca vitulina</i>	Harbor Seal	<i>Phoca vitulina vitulina</i>					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca vitulina</i>	Harbor Seal	<i>Phoca vitulina richardsi</i>					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca vitulina</i>	Harbor Seal	<i>Phoca vitulina stejnegeri</i>					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca vitulina</i>	Harbor Seal	<i>Phoca vitulina mellonae</i>					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca vitulina</i>	Harbor Seal	<i>Phoca vitulina concolor</i>					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca largha</i>	Spotted Seal	World population	c. 400,000				MacDonald (2001)	

RIS Annex: Non-avian animal species, page 11

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Pinnipedia	Phocidae	<i>Phoca largha</i>	Spotted Seal	Gulf of Laotung, Peter the Great Bay					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca largha</i>	Spotted Seal	Tatarskiy Strait					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca largha</i>	Spotted Seal	Sakhalin Island to N Hokkaido					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca largha</i>	Spotted Seal	N Sea of Okhotsk					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca largha</i>	Spotted Seal	Karaginskiy Island in Kamchatka					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca largha</i>	Spotted Seal	NW Bering Sea					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Phoca largha</i>	Spotted Seal	SE Bering Sea					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pusa (Phoca) hispida</i>	Ringed Seal	World population	6,000,000 - 7,000,000				MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pusa (Phoca) hispida</i>	Ringed Seal	<i>Pusa hispida hispida</i> (Arctic Ocean)					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pusa (Phoca) hispida</i>	Baltic Ringed Seal	<i>Pusa hispida botnica</i> (Baltic Sea)					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pusa (Phoca) hispida</i>	Ringed Seal	<i>Pusa hispida ochotensis</i> (Sea of Okhotsk)					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pusa (Phoca) hispida</i>	Ladoga Ringed Seal	<i>Pusa hispida ladogensis</i> (Lake Ladoga, Russia)					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pusa (Phoca) hispida</i>	Saimaa Ringed Seal	<i>Pusa hispida saimensis</i> (Lake Saimaa, Finland)					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pusa (Phoca) sibirica</i>	Baikal Seal	World population	60,000-70,000	1990	650		MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pusa (Phoca) caspica</i>	Caspian Seal	World population	500,000 - 600,000		5,500	VU	MacDonald (2001)	
Pinnipedia	Phocidae	<i>Halichoerus grypus</i>	Gray Seal	World population	300,000				MacDonald (2001)	

RIS Annex: Non-avian animal species, page 12

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Pinnipedia	Phocidae	<i>Halichoerus grypus</i>	Gray Seal	NW Atlantic (Labrador - Nantucket)					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Halichoerus grypus</i>	Gray Seal	NE Atlantic (France - Kola Peninsula)					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Halichoerus grypus</i>	Gray Seal	Baltic					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pagophilus groenlandicus</i>	Harp Seal	World population	7,000,000	2000			MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pagophilus groenlandicus</i>	Harp Seal	NE Newfoundland & Gulf of St Lawrence					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pagophilus groenlandicus</i>	Harp Seal	E Greenland/Jan Mayen					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Pagophilus groenlandicus</i>	Harp Seal	White Sea					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Histiophoca (Phoca) fasciata</i>	Ribbon Seal	World population	193,000 - 240,000	1979 & 1982			MacDonald (2001)	
Pinnipedia	Phocidae	<i>Cystophora cristata</i>	Hooded Seal	World population	500,000 - 700,000	c. 2000			MacDonald (2001)	
Pinnipedia	Phocidae	<i>Cystophora cristata</i>	Hooded Seal	NW Atlantic					MacDonald (2001)	
Pinnipedia	Phocidae	<i>Cystophora cristata</i>	Hooded Seal	Greenland Sea					MacDonald (2001)	
Cetacea	Iniidae	<i>Inia geoffrensis</i>	Orinoco Dolphin (Boto)	<i>Inia geoffrensis humboldtiana</i>	n/a			NE	Reeves <i>et al.</i> (2003)	
Cetacea	Iniidae	<i>Inia geoffrensis</i>	Amazon Dolphin (Boto)	<i>Inia geoffrensis geoffrensis</i>	n/a			NE	Reeves <i>et al.</i> (2003)	
Cetacea	Iniidae	<i>Inia geoffrensis</i>	Bolivian Dolphin (Boto)	<i>Inia geoffrensis boliviensis</i>	n/a			NE	Reeves <i>et al.</i> (2003)	
Cetacea	Lipotidae	<i>Lipotes vexillifer</i>	Baiji or Yangtze Dolphin		<30		1	CR	Reeves <i>et al.</i> (2003)	

RIS Annex: Non-avian animal species, page 13

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Cetacea	Platanistidae	<i>Platanista gangetica</i>	Ganges Dolphin	<i>Platanista gangetica gangetica</i>	<2,000		20	EN	Reeves <i>et al.</i> (2003)	"There is no meaningful estimate of range-wide abundance, but at least a few hundreds and probably a few thousand."
Cetacea	Platanistidae	<i>Platanista gangetica</i>	Indus Dolphin	<i>Platanista gangetica minor</i>	c. 1,000		10	EN	Reeves <i>et al.</i> (2003)	
Cetacea	Pontoporiidae	<i>Pontoporia blainvillei</i>	Franiscana or La Plata Dolphin	Rio Grande do Sul & Uruguay	42,000		420	DD	Reeves <i>et al.</i> (2003)	
Sirenia		<i>Trichechus manatus</i>	West Indian Manatee					VU		
Sirenia		<i>Trichechus senegalensis</i>	West African Manatee					VU		
Sirenia		<i>Trichechus inunguis</i>	Amazonian Manatee					VU		
Sirenia		<i>Dugong dugong</i>	Dugong					VU		
Primates	Cebidae	<i>Pithecia albicans</i>	Buffy Saki						MacDonald (2001)	
Primates	Cebidae	<i>Pithecia aequatorialis</i>	Equatorial Saki						MacDonald (2001)	
Primates	Cebidae	<i>Chiropotes satanas</i>	Bearded Saki					EN	MacDonald (2001)	
Primates	Cebidae	<i>Chiropotes albinasus</i>	White-nosed Saki						MacDonald (2001)	
Primates	Cebidae	<i>Cacajao calvus</i>	Red Uakari					VU	MacDonald (2001)	
Primates	Cebidae	<i>Cacajao melanocephalus</i>	Black Uakari						MacDonald (2001)	
Primates	Cercopithecidae	<i>Chlorocebus aethiops</i>	Vervet						MacDonald (2001)	

RIS Annex: Non-avian animal species, page 14

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Primates	Cercopithecidae	<i>Miopithecus talapoin</i>	Talapoin Monkey						MacDonald (2001)	
Primates	Cercopithecidae	<i>Macaca fascicularis</i>	Long-tailed Macaque					LR	MacDonald (2001)	
Primates	Cercopithecidae	<i>Macaca nemestrina</i>	Pig-tailed Macaque					VU	MacDonald (2001)	
Primates	Cercopithecidae	<i>Macaca silenus</i>	Lion-tailed Macaque					EN	MacDonald (2001)	
Primates	Cercopithecidae	<i>Macaca sinica</i>	Toque Macaque					VU	MacDonald (2001)	
Primates	Cercopithecidae	<i>Masalis larvatus</i>	Proboscis Monkey					EN	MacDonald (2001)	
Primates	Cercopithecidae	<i>Nasalis (Simias) concolor</i>	Simakobu					EN	MacDonald (2001)	
Primates	Cercopithecidae	<i>Presbytis potenziani</i>	Mentawai Sureli					VU	MacDonald (2001)	
Primates	Cercopithecidae	<i>Presbytis femoralis</i>	Banded Sureli					LR	MacDonald (2001)	
Primates	Cercopithecidae	<i>Presbytis siamensis</i>	Pale-thighed Sureli						MacDonald (2001)	
Primates	Hominidae	<i>Pongo pygmaeus</i>	Borneo Orang-utan					EN	MacDonald (2001)	
Primates	Hominidae	<i>Pongo abeli</i>	Sumatran Orang-utan					CR	MacDonald (2001)	
Perissodactyla	Tapiridae	<i>Tapirus indicus</i>	Malayan Tapir					VU	MacDonald (2001)	
Perissodactyla	Tapiridae	<i>Tapirus bairdii</i>	Baird's Tapir	Mexico: Sierra Madre de Chiapas & Tehuantepec	400-1,950		4	VU	Matola <i>et al.</i> (1997)	Matola <i>et al.</i> recommend use of lower population estimates for conservation planning.
Perissodactyla	Tapiridae	<i>Tapirus bairdii</i>	Baird's Tapir	Mexico, Belize & Guatemala	2,930 - 11,800		29	VU	Matola <i>et al.</i> (1997)	Matola <i>et al.</i> recommend use of lower population estimates for conservation planning.

RIS Annex: Non-avian animal species, page 15

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Perissodactyla	Tapiridae	<i>Tapirus bairdii</i>	Baird's Tapir	Costa Rica & Panama	1,200- 1,500		12	VU	Matola <i>et al.</i> (1997)	Matola <i>et al.</i> recommend use of lower population estimates for conservation planning.
Artiodactyla	Hippopotamidae	<i>Hippopotamus amphibius</i>	Hippopotamus						Eltringham (1993a)	
Artiodactyla	Hippopotamidae	<i>Hippopotamus amphibius</i>	Hippopotamus	Western Africa	7,700	1988-89	77		Eltringham (1993a); MacDonald (2001)	
Artiodactyla	Hippopotamidae	<i>Hippopotamus amphibius</i>	Hippopotamus	Eastern Africa	79,500	1988-89	795		Eltringham (1993a); MacDonald (2001)	
Artiodactyla	Hippopotamidae	<i>Hippopotamus amphibius</i>	Hippopotamus	Southern Africa	86,400	1988-89	864		Eltringham (1993a); MacDonald (2001)	
Artiodactyla	Hippopotamidae	<i>Hexaprotodon liberiensis</i>	Pygmy Hippopotamus					VU	Eltringham (1993b)	
Artiodactyla	Hippopotamidae	<i>Hexaprotodon liberiensis</i>	Pygmy Hippopotamus	<i>Hexaprotodon liberiensis</i> (Sierra Leone)	70-90		7	VU	Eltringham (1993b)	
Artiodactyla	Hippopotamidae	<i>Hexaprotodon liberiensis</i>	Pygmy Hippopotamus	<i>Hexaprotodon liberiensis heslopi</i> (Niger Delta)				CR	Eltringham (1993b)	
Artiodactyla	Bovidae	<i>Kobus vardonii</i>	Puku					LR-CD	MacDonald (2001)	
Artiodactyla	Bovidae	<i>Kobus vardonii vardonii</i>	Puku					LR-CD	MacDonald (2001)	
Artiodactyla	Bovidae	<i>Kobus vardonii senganus</i>	Senga Kob					LR-CD	MacDonald (2001)	
Artiodactyla	Bovidae	<i>Kobus ellipsiprymnus</i>	Common Waterbuck	[four sub-species]				LR-CD	MacDonald (2001)	
Artiodactyla	Bovidae	[<i>Kobus ellipsiprymnus</i>]	Defassa Waterbuck	[nine sub-species]				LR-CD	MacDonald (2001)	??relationship to <i>Kobus ellipsiprymnus</i>
Artiodactyla	Bovidae	<i>Kobus leche</i>	Lechwe						MacDonald (2001)	

RIS Annex: Non-avian animal species, page 16

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Artiodactyla	Bovidae	<i>Kobus leche leche</i>	Red Lechwe	Botswana & Zambia				VU	MacDonald (2001)	
Artiodactyla	Bovidae	<i>Kobus leche smithemani</i>	Black Lechwe	NE Zambia & SE Democratic Republic of Congo				VU	MacDonald (2001)	
Artiodactyla	Bovidae	<i>Kobus leche kafuensis</i>	KafueLechwe	Kafue River, Zambia				VU	MacDonald (2001)	
Artiodactyla	Bovidae	<i>Kobus megaceros</i>	Nile Lechwe					LR-NT	MacDonald (2001)	
Artiodactyla	Bovidae	<i>Bubalus arnee</i>	Wild Water Buffalo					EN	MacDonald (2001)	
Artiodactyla	Tragulidae	<i>Hyemoschus aquaticus</i>	Water Chevrotain					DD	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Cervus duvauceli</i>	Swamp Deer/Barasingha					VU	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Cervus duvauceli</i>	Swamp Deer/Barasingha	<i>Cervus duvauceli duvauceli</i> (India/Nepal)	5,400-6,400	1995	54	VU	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Cervus duvauceli</i>	Swamp Deer/Barasingha	<i>Cervus duvauceli branderi</i> (India)	450-550	1986	45	EN	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Cervus duvauceli</i>	Swamp Deer/Barasingha	<i>Cervus duvauceli ranjitsinhi</i> (India)	350-400	1994	35	CR	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Hydropotes inermis</i>	Chinese Water Deer					LR-NT	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Hydropotes inermis</i>	Chinese Water Deer	<i>Hydropotes inermis inermis</i> (China)				LR-NT	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Hydropotes inermis</i>	Chinese Water Deer	<i>Hydropotes inermis argyropus</i> (Korea)				DD	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Blastocerus dichotomus</i>	Marsh Deer					VU	Wemmer (1998)	
Artiodactyla	Cervidae	<i>Blastocerus dichotomus</i>	Marsh Deer	Brazil	41,000	?1995	410	VU	Wemmer (1998); Pinder (1995)	
Artiodactyla	Cervidae	<i>Blastocerus dichotomus</i>	Marsh Deer		<2,000		20	VU	Wemmer (1998)	

RIS Annex: Non-avian animal species, page 17

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Rodentia	Heteromyidae	<i>Hydrochaeris hydrochaeris</i>	Capybara						MacDonald (2001)	
Rodentia	Heteromyidae	<i>Myocastor coypus</i>	Coypu						MacDonald (2001)	
Rodentia	Muridae	<i>Hydromys chrysogaster</i>	Australian/Golden-bellied Water Rat						MacDonald (2001)	
Rodentia	Muridae	<i>Hydromys habbema</i>	Mountain Water Rat						MacDonald (2001)	
Rodentia	Muridae	<i>Hydromys hussoni</i>	Western Water Rat						MacDonald (2001)	
Rodentia	Muridae	<i>Hydromys neobritannicus</i>	New Britain Water Rat						MacDonald (2001)	
Rodentia	Muridae	<i>Hydromys shawmayeri</i>	Shaw Mayer's Water Rat						MacDonald (2001)	
Rodentia		<i>Ichthyomys</i>	4 spp.						MacDonald (2001)	
Rodentia		<i>Chibchanomys</i>	2 spp.						MacDonald (2001)	
Rodentia		<i>Anotomys leander</i>	Ecuador Fish-eating Rat						MacDonald (2001)	
Rodentia		<i>Neusticomys</i>	4 spp.						MacDonald (2001)	
Rodentia		<i>Rheomys</i>	5 spp.						MacDonald (2001)	
Rodentia		<i>Bibimys</i>	3 spp.						MacDonald (2001)	
Rodentia		<i>Scapteromys tumidus</i>	Argentinian Water Rat						MacDonald (2001)	
Rodentia		<i>Kunsia</i>	2 spp.						MacDonald (2001)	
Insectivora	Scoricidae	<i>Neomys fodiens</i>	Eurasian Water Shrew					LR-LC	Stone (1995)	
Insectivora	Scoricidae	<i>Neomys anomalus</i>	Southern Water Shrew					LR-LC	Stone (1995)	
Insectivora	Scoricidae	<i>Neomys schelkovnikovi</i>	Transcaucasian Water Shrew					LR-LC	Stone (1995)	

RIS Annex: Non-avian animal species, page 18

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Insectivora	Scoricidae	<i>Sorex palustris</i>	America Water Shew						MacDonald (2001)	
Insectivora	Scoricidae	<i>Chimarrogale himalayica</i>	Himalayan Water Shew					LR-LC	Stone (1995)	
Insectivora	Scoricidae	<i>Chimarrogale platycephala</i>						LR-LC	Stone (1995)	Sometimes included in <i>C. himalayica</i>
Insectivora	Scoricidae	<i>Chimarrogale hantu</i>	Malayan Water Shew					CR	Stone (1995)	
Insectivora	Scoricidae	<i>Chimarrogale sumatrana</i>	Sumatra Water Shew					CR	Stone (1995)	
Insectivora	Scoricidae	<i>Chimarrogale phaeura</i>	Borneo Water Shrew					EN	Stone (1995)	
Insectivora	Scoricidae	<i>Chimarrogale styani</i>	Styan's Water Shrew					LR-LC	Stone (1995)	
Insectivora	Scoricidae	<i>Nectogale elegans</i>	Elegant/Tibetan Water Shrew					LR-LC	Stone (1995)	
Insectivora	Tenrecidae	<i>Geogale aurita</i>	Large-eared Tenrec						MacDonald (2001)	
Insectivora	Tenrecidae	<i>Limnogale mergulus</i>	Aquatic Tenrec						MacDonald (2001)	
Insectivora	Tenrecidae	<i>Oryzorictes</i>							MacDonald (2001)	
Insectivora	Talpidae	<i>Desmana moschata</i>	Russian Desman					VU	Stone (1995)	
Insectivora	Talpidae	<i>Desmana moschata</i>	Russian Desman	River Volga Basin	23,000	?1990	230	VU	Stone (1995)	
Insectivora	Talpidae	<i>Desmana moschata</i>	Russian Desman	River Don Basin	12,000	?1990	120	VU	Stone (1995)	
Insectivora	Talpidae	<i>Desmana moschata</i>	Russian Desman	River Dnieper Basin	2,000-3,000	?1990	20	VU	Stone (1995)	
Insectivora	Talpidae	<i>Desmana moschata</i>	Russian Desman	Ural	2,000	?1990	20	VU	Stone (1995)	
Insectivora	Talpidae	<i>Desmana moschata</i>	Russian Desman	Uj & Tobal Rivers	2,500	?1990	25	VU	Stone (1995)	
Insectivora	Talpidae	<i>Galemys pyrenaicus</i>	Pyrenean Desman					VU	Stone (1995)	

Order	Family	Species	Common name	Population name	Population estimate	Date of estimate	1% threshold	IUCN status	Source	Notes
Chiroptera	Noctilionidae	<i>Noctilio leporinus</i>	Greater Bulldog Bat/ Fisherman Bat						MacDonald (2001)	
Chiroptera	Noctilionidae	<i>Noctilio albiventris</i>	Lesser Bulldog Bat						MacDonald (2001)	
Chiroptera			Daubenton's Bat							
Monotremata	Ornithorhynchidae	<i>Ornithorhynchus anatinus</i>	Duck-billed Platypus						MacDonald (2001)	
Anura	Discoglossidae	<i>Bombina bombina</i>	European Fire-bellied Toad					LR-CD	IUCN (2000)	
Caudata	Salamandridae	<i>Triturus cristatus</i>	Great Crested Newt					LR-CD	IUCN (2000)	
Caudata	Ambystomatidae	<i>Ambystoma cingulatum</i>						VU	IUCN (2000)	
Caudata	Ambystomatidae	<i>Ambystoma mexicanum</i>	Axolotl					VU	IUCN (2000)	

IUCN status (1994 and 2001 categories): CR critically endangered; EN endangered; VU vulnerable; NT near threatened; LR Lower risk; LC least concern; NE not evaluated; DD data deficient; CD Conservation dependent

Sources:

- Anon. 1993. Crocodile conservation and management in India. *Report of a Crocodile Specialist Group Workshop, Madras, India; 1-3 March 1993*. J. Hutton (compiler). 27 pp.
- Eltringham, S.K. 1993a. The Common Hippopotamus (*Hippopotamus amphibius*). Pp. 43-55. In: *Pigs, Peccaries and Hippos. Status Survey and Conservation Action Plan*. IUCN/SSC Pigs and Peccaries Specialist Group and Hippo Specialist Group. IUCN, Gland, Switzerland and Cambridge. 202 pp.
- Eltringham, S.K. 1993b. The Pygmy Hippopotamus (*Hexaprotodon liberiensis*). Pp. 55-60. In: *Pigs, Peccaries and Hippos. Status Survey and Conservation Action Plan*. IUCN/SSC Pigs and Peccaries Specialist Group and Hippo Specialist Group. IUCN, Gland, Switzerland and Cambridge. 202 pp.
- IUCN Polar Bear Specialist Group 2001. Global review of Polar Bear status. [<http://pbsg.npolar.no/new-status.htm>]
- MacDonald, D. (ed.) 2001. *The New Encyclopaedia of Mammals*. Oxford University Press.

- Masskey, T.M. & Percival, H.F. 1994. Status and conservation of Gharial in Nepal. In: *Crocodiles, Proceedings of the 12th Working Meeting of the Crocodile Specialist Group*. 1: 77-83. IUCN, Gland, Switzerland.
- Matola, S., Cuarn, A.D. & Rubio-Torgler, H. 1997. Status and Action Plan of Baird's Tapir (*Tapirus bairdii*). Pp. 29-45. In: Brooks, D.M., Bodmer, R.E. & Matola, S. 1997. *Tapirs. IUCN Status Survey and Conservation Action Plan*. IUCN, Switzerland.
- Messel, H. & King, F.W. 1990. The status of *Crocodylus porosus* in the Solomon Islands. In: *Crocodiles, Proceedings of the 10th Working Meeting of the Crocodile Specialist Group*. 2: 39-69. IUCN, Gland, Switzerland.
- Messel, H. & King, F.W. 1992. Survey of the crocodile populations of the Republic of Palau, Caroline Islands, Pacific Ocean. In: *Crocodiles, Proceedings of the 10th Working Meeting of the Crocodile Specialist Group*. 1: 302-351. IUCN, Gland, Switzerland.
- Pinder, L. (1995). III Workshop on the conservation of marsh deer. *Deer Specialist Group News* 13: 3-4.
- Reeves, R.R., Smith, B.D., Crespo, E.A. & di Sciara, G.N. 2003. *Dolphins, Whales and Porpoises. 2002-2010 Conservation Action Plan for the World's Cetaceans*. IUCN, Switzerland.
- Ross, J.P. (ed.) 1998. *Crocodiles. Status Survey and Conservation Action Plan*. 2nd edition. IUCN/SSC Crocodile Specialist Group. IUCN, Gland, Switzerland and Cambridge. 96 pp.
- Stone, R.D. (comp.) 1995. *Eurasian Insectivores and Tree Shrews. Status Survey and Conservation Action Plan*. IUCN/SSC Insectivore, Tree Shrew and Elephant Shrew Specialist Group. IUCN, Gland, Switzerland. 108 pp.
- Webb, G.J.W., Whitehead, P.J. & Manolis, S.C. 1987. Crocodile management in the Northern Territory of Australia. Pp. 102-124. In: *Wildlife Management: Crocodile and Alligators*. Webb, G.J.W., Manolis, S.C. & Whitehead, P.J. (eds.). Surrey Beatty and Sons, Chipping Norton, Australia.
- Wemmer, C. (ed.) 1998. *Deer. Status Survey and Conservation Action Plan*. IUCN/SSC Deer Specialist Group. IUCN, Gland, Switzerland and Cambridge, UK. 106 pp.