

SURVIVAL SERVICE COMMISSION

ENDANGERED MAMMALS OF THE WORLD REPORT ON STATUS AND ACTION TREATMENT

by

Paul Joslin and Daphne Maryanka



International Union
for Conservation of Nature and Natural Resources
Morges, Switzerland
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INTRODUCTION

This publication is essentially a working paper prepared for the use of the Survival Service Commission. Its conclusions, particularly with regard to the degree of concern expressed for individual species, should be treated as tentative.

The purpose of this exercise is to make available a rapid reference to both the status and the nature of action treatment required for each rare or endangered species, on a country by country basis.

The list of rare and endangered mammals, and the countries in which they occur, is taken from the IUCN Supplement of February 1968.

The status has been classified in two ways:-

- (a) By the IUCN "star" listing, which is graded on a scale of different levels of concern for each species as decided by the Survival Service Commission.
- (b) By a suggested revised listing, which is graded on a limited number of objective criteria, provided by the Red Data Book (see "Key to Column Headings and Symbols", page 6). Where information of this type is partially or wholly missing, this has been indicated.

The Action Treatment (see page 2) lists the steps which it may be necessary to take in order to ensure the protection of a species.

The source material for this compilation has been the following:-

1. Simon, Noel. 1966. IUCN Red Data Book, Vol. 1 - Mammalia.
2. Joslin, P. 1967. A Preliminary Analysis of the Red Data Book. Part I - Class Mammalia. Cyclostyled.
3. Simon, Noel. 1968. Red Data Book Volume 1 Index. Cyclostyled.
4. IUCN Supplement February 1968. Mammals listed in the Red Data Book Vol. 1, arranged on a zoogeographical/geopolitical basis.*

The preparation of this paper was made possible by a grant from the Fauna Preservation Society.

* Note: The IUCN Supplement of February 1968 was not available to the authors of this paper. As the allocation of animals to zoogeographical regions involved some arbitrary decisions, and the list of endangered species in the Supplement had recently been revised, the Joslin/Maryanka lists were different to those in the Supplement. In July 1968, therefore, the Secretariat of the Survival Service Commission, in collaboration with Mr J. Lucas, a member of the Commission, revised the original copy of this paper so that it conformed to the lists in the IUCN Supplement. The revision involved a rearrangement of species by countries, replacement of the Table of Contents, the deletion of certain forms and the addition of some twenty new ones.

ACTION TREATMENT

1. Factfinding:

- i To make a brief STATUS SURVEY to find out how rare the species is and how great the danger.
- ii To make a longer ECO-SURVEY to find out what the requirements of the species may be and what are the factors limiting its population.
- iii To ascertain the LEGAL and ENFORCEMENT SITUATION.

2. Action proposed:

- i (a) To PROMPT NEW LEGISLATION.
(b) To IMPROVE LAW ENFORCEMENT.
(c) To IMPROVE THE LEGAL SITUATION in any other way.
- ii To ACQUIRE LAND as a RESERVE.
- iii To PROMOTE THE FORMATION by a Government or other appropriate agency of: (a) a NATIONAL PARK.
(b) a NATURE RESERVE.
- iv To set up a RESEARCH STATION to study the fauna, flora and ecology of the region.
- v To set up a RESEARCH FOUNDATION possibly within an existing organization (such as a university) which will turn scientific attention towards the species concerned.
- vi To create a CONTINUING SCIENTIFIC PRESENCE by any other means.
- vii To PROMOTE A PROGRAMME of:
(a) CAPTIVE PROPAGATION.
(b) TRANSLOCATION.
- viii To OFFER BOUNTIES for SUCCESSFUL REARING OF YOUNG (chiefly applicable to birds).
- ix To CONTROL: (a) FERAL ANIMAL SPECIES.
(b) INTRODUCED ANIMAL SPECIES.
- x To INCREASE FOOD SUPPLY.

3. Use of influence:

- i To exert INFLUENCE by persuading someone of importance to write: (a) a PERSONAL LETTER.
(b) an OFFICIAL LETTER.
- ii To send a HIGH LEVEL MISSION to confer with the Heads of Governments or Ministers concerned.
- iii To promote a LOCAL CONFERENCE on the subject.
- iv To promote a RESOLUTION or a RECOMMENDATION at a Conference.
- v To SECURE RECOGNITION in high places by some other means.

4. Publicity:

- i To PROMOTE A PUBLICITY CAMPAIGN.
- ii To PROPOSE THE ADOPTION by a Group (e.g. city, school, etc.) of: (a) the SPECIES.
(b) the PROJECT.
- iii To PROMOTE A PROGRAMME OF LONG-TERM EDUCATION.

5. Funding:

- i To promote a WORLD WILDLIFE FUND PROJECT.
- ii To seek FINANCIAL AID from an INDIVIDUAL or ORGANIZATION WHICH MAY BE LINKED WITH THE SPECIES OR PROJECT.
- iii To get HELP IN KIND from INDUSTRY or COMMERCE.
- iv To obtain the SERVICES OF PEOPLE ABLE TO GIVE PRACTICAL HELP.

TABLE OF CONTENTS

The country responsible for the administration of an island, or another territory, where it occurs in a different zoogeographical region, is shown in brackets and is underlined.

PALAEARCTIC REGION

Algeria	Lebanon
Bulgaria	Libya
China	Mongolia
Cyprus	Morocco
Egypt	Norway
Finland	Poland
France	Portugal
Corsica	Ryukyu Islands (<u>Japan</u>)
Greece	Sinai
Greenland	Spain
Iran	Spanish Sahara (<u>Spain</u>)
Iraq	Syria
Israel	Taiwan
Italy	Tibet
Sardinia	Tunisia
Japan	Turkey
Jordan	U.S.S.R.
Korea	Yugoslavia

ORIENTAL REGION

Afghanistan	Malaya (<u>Malaysia</u>)
Bali (<u>Indonesia</u>)	Nepal
Borneo (<u>Indonesia</u>)	Pakistan
Burma	Philippines
Cambodia	Sabah (<u>Malaysia</u>)
Ceylon	Sarawak (<u>Malaysia</u>)
India	Sumatra (<u>Indonesia</u>)
Sikkim (<u>India</u>)	Thailand
Java (<u>Indonesia</u>)	Vietnam
Laos	

Guyana	Paraguay
Haiti	Peru
Honduras	Surinam (<u>Netherlands</u>)
Jamaica (<u>U.K.</u>)	Swan Island (<u>U.S.A.</u>)
Nicaragua	Uruguay
Panama	Venezuela

OCEANS AND OCEANIC ISLANDS

<u>East Pacific Ocean</u>	<u>South Pacific Ocean</u>
Galapagos Islands (<u>Ecuador</u>)	New Caledonia (<u>France</u>)
<u>North Pacific Ocean</u>	Solomon Islands (<u>U.K.</u>)
Hawaii Islands (<u>U.S.A.</u>)	<u>Antarctica</u>
Palau Islands (<u>U.S.A.</u>)	

KEY TO COLUMN HEADINGS AND SYMBOLS

COLUMNS

ACTION TREATMENT

- Species believed to require:
1. Human exploitation stopped.
 2. Habitat destruction stopped.
 3. Feral or introduced species removed.
 4. Other.

IUCN "STAR" LISTING

9. 1 = three star
- 2 = two star
- 3 = one star
- 4 = no star

- Legal protection and enforcement:
5. Receives no legal protection.
 6. Law enforcement is not adequate.
- Reserve and captive status:
7. Not found in any reserve.
 8. Not found in captivity.

SUGGESTED URGENCY LISTING

10. 1 = top priority species.
- 2 = top priority subspecies.
- 3 = secondary species.
- 4 = secondary subspecies and tertiary species.

SYMBOLS

+ = applicable - = not applicable o = not known

DEFINITIONS

- Top priority : The category given to a species (or subspecies) which is believed to be on the verge of extinction.
- Status : Information concerning population number and trend, unless otherwise indicated.
- Verge of extinction: A population which would likely cease to exist in sufficient numbers to continue the species (or subspecies) if immediate steps to protect it were not taken.

Note: A number in brackets immediately following a mammal's name indicates the number of countries or islands in which it occurs, and under which it is included in these lists.

A. PALAEARCTIC REGION

ALGERIA

<u>Panthera pardus panthera</u>	Barbary leopard (3)	+ - - - - + + +	4 4
<u>Cervus elaphus barbarus</u>	Barbary stag (2)	+ - - - - + - +	2 4
<u>Gazella dorcas massaesyala</u>	Moroccan dorcas gazelle (2)	o o o o o o o o	4
<u>Gazella gazella cuvieri</u>	Cuvier's gazelle (3)	+ - - - - + + -	3 4
<u>Gazella leptoceros leptoceros</u>	Slender-horned gazelle (6)	o o o o + - + -	4 4

BULGARIA

<u>Monachus monachus</u>	Mediterranean monk seal (13)	+ - - - - + + -	1 1
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CHINA

<u>Pygathrix nemaeus</u>	Douc langur (3)	o o o o o o o o	4 3
<u>Rhinopithecus roxellanae</u>	Snub-nosed monkey (3)	+ - - - - o + o	4 3
<u>Cuon alpinus alpinus</u>	Eastern Asiatic wild dog (2)	o o o o o o o o	4 4
<u>Ailuropoda melanoleuca</u>	Giant panda	o o o o - o + o	4 3
<u>Selenarctos thibetanus formosanus</u>	Formosan black bear (2)	o o o o o o o o	4 4
<u>Panthera tigris altaica</u>	Amur tiger (3)	+ - - - - o - -	3 4
<u>Panthera tigris amoyensis</u>	Chinese tiger	+ - - - + - + -	4 4
<u>Panthera pardus orientalis</u>	Korean leopard (3)	o o o o o o o o	4 4
<u>Panthera uncia</u>	Snow leopard (4)	+ - - - - + o -	4 3
<u>Equus przewalskii</u>	Przewalski's horse (2)	+ - + - - + + -	4 3
<u>Equus hemionus hemionus</u>	Mongolian wild ass (3)	+ - + - - + + -	4 4
<u>Camelus bactrianus ferus</u>	Wild Bactrian camel (2)	+ - - + - + - -	4 4
<u>Muntiacus crinifrons</u>	Black muntjac	+ - - - o o + +	4 3
<u>Cervus eldi siamensis</u>	Thailand brow-antlered deer (5)	+ - - - - o - -	4 2
<u>Cervus nippon mandarinus</u>	North China sika	+ - - - o o + -	1 2
<u>Cervus nippon kopschi</u>	South China sika	+ - - - - o + -	1 4
<u>Cervus nippon grassianus</u>	Shansi sika	+ + - - o o + -	1 2

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Cervus albirostris</u>	Thorold's deer (2)	-	-	-	-	-	o	+	-	4	3
<u>Cervus elaphus yarkandensis</u>	Yarkand stag	+	-	-	-	o	o	+	o	4	2
<u>Cervus elephus macneilli</u>	M'Neill's deer (2)	+	-	-	-	-	o	+	o	1	4
<u>Budorcas taxicolor tibetana</u>	Szechwan takin	+	-	-	-	-	o	-	-	4	4
<u>Budorcas taxicolor bedfordi</u>	Golden takin	+	-	-	-	-	o	+	-	4	4
<u>CYPRUS</u>											
<u>Monachus monachus</u>	Mediterranean monk seal (13)	+	-	-	-	-	+	+	-	1	1
<u>Ovis orientalis ophion</u>	Cyprian mouflon	+	-	+	-	-	o	-	-	3	4
<u>EGYPT</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Equus asinus africanus</u>	Nubian wild ass (4)	-	-	+	-	-	o	+	-	1	4
<u>FINLAND</u>											
<u>Phoca hispida saimensis</u>	Saimaa seal	-	-	-	+	-	+	+	+	3	4
<u>FRANCE</u>											
<u>Galemys pyrenaicus</u>	Pyrenean desman (3)	-	+	-	-	-	-	+	-	4	4
<u>CORSICA</u>											
<u>Monachus monachus</u>	Mediterranean monk seal (13)	+	-	-	-	-	+	+	-	1	1
<u>Cervus elaphus corsicanus</u>	Corsican deer (2)	+	+	-	+	-	+	-	+	4	3
<u>GREECE</u>											
<u>Monachus monachus</u>	Mediterranean monk seal (13)	+	-	-	-	-	+	+	-	1	1
<u>GREENLAND (DENMARK)</u>											
<u>Thalarctos maritimus</u>	Polar bear (5)	+	-	-	-	-	o	-	-	4	4
<u>Odobenus rosmarus rosmarus</u>	Atlantic walrus (4)	+	-	-	-	-	o	+	-	4	4
<u>IRAN</u>											
<u>Panthera leo persica</u>	Asiatic lion (2)	+	+	-	-	-	o	-	-	4	4
<u>Panthera tigris virgata</u>	Caspian tiger (3)	+	+	-	-	-	o	+	-	1	4

1 2 3 4 5 6 7 8 9 10

<u>Panthera pardus tulliana</u>	Anatolian leopard	o o o o o o o o	4 4
<u>Acinonyx jubatus venaticus</u>	Asiatic cheetah (5)	+ + - - - o + +	1 4
<u>Equus hemionus onager</u>	Persian onager (3)	+ - - - - + - -	4 4
<u>Dama mesopotamica</u>	Persian fallow deer (2)	+ + - - - o - -	1 1

IRAQ

<u>Gazella dorcas saudiya</u>	Saudi Arabian dorcas gazelle (6)	+ - - - - + + -	4 4
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ISRAEL

<u>Gazella dorcas saudiya</u>	Saudi Arabian dorcas gazelle (6)	+ - - - - + + -	4 4
<u>Gazella gazella arabica</u>	Arabian gazelle (5)	+ - - - - + + -	4 4

ITALY

<u>Monachus monachus</u>	Mediterranean monk seal (13)	+ - - - - + + -	1 1
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Sardinia

<u>Monachus monachus</u>	Mediterranean monk seal (13)	+ - - - - + + -	1 1
<u>Cervus elaphus corsicanus</u>	Corsican deer (2)	+ + - + - + - +	4 3

JAPAN

<u>Zalophus californianus japonicus</u>	Japanese sea-lion	+ - - - o o + +	1 2
<u>Phoca kurilensis</u>	Kurile harbour seal (2)	o o o o o o + o	4 3
<u>Capricornis crispus crispus</u>	Japanese serow (2)	- + - - + + - -	4 4

JORDAN

<u>Gazella dorcas saudiya</u>	Saudi Arabian dorcas gazelle (6)	+ - - - - + + -	4 4
<u>Gazella gazella arabica</u>	Arabian gazelle (5)	+ - - - - + + -	4 4

1 2 3 4 5 6 7 8 9 10

KOREA

Panthera tigris altaica Amur tiger (3) + - - - - o - - 3 4
Panthera pardus orientalis Korean leopard (3) o o o o o o o o 4 4

LEBANON

Monachus monachus Mediterranean monk seal (13) + - - - - + + - 1 1

LIBYA

Equus asinus africanus Nubian wild ass (4) - - + - - o + - 1 4
Addax nasomaculatus Addax (7) + - - - - o + - 4 3
Gazella leptoceros leptoceros Slender-horned gazelle (6) o o o o + - + - 4 4

MONGOLIA

Equus przewalskii Przewalski's horse (2) + - + - - + + - 4 3
Equus hemionus hemionus Mongolian wild ass (3) + - + - - + + - 4 4
Camelus bactrianus ferus Wild Bactrian camel (2) + - - + - + - - 4 4

MOROCCO

Hyaena hyaena barbara Barbary hyaena + - - - - o + o 3 4
Panthera pardus panthera Barbary leopard (3) + - - - - + + + 4 4
Monachus monachus Mediterranean monk seal (13) + - - - - + + - 1 1
Gazella dorcas massaesyala Moroccan dorcas gazelle (2) o o o o o o o o 4
Gazella gazella cuvieri Cuvier's gazelle (3) + - - - - + + - 3 4
Gazella dama mhorr Mhorr gazelle o o o o o - + o 1 2

NORWAY

Thalarchos maritimus Polar bear (5) + - - - - o - - 4 4
Odobenus rosmarus rosmarus Atlantic walrus (4) + - - - - o + - 4 4

POLAND

Bison bonasus European bison - - - - - o - - 4 3

1 2 3 4 5 6 7 8 9 10

PORTUGAL

Galemys pyrenaicus Pyrenean desman(3) - + - - - - + - 4 4

RYUKYU ISLANDS (Japan)

Pentalagus furnessi Ryukyu rabbit - + + - - - + - 3 3

Tokudaia osimensis muenninki Ryukyu spiny rat o o o o o o o o 4 4

Dugong dugon Dugong (22) + - - - - + + - 4 3

Cervus nippon keramae Ryukyu sika - - + + - o - - 1 4

SINAI

Panthera pardus jarvisi Sinai leopard o o o o o o o o 4 4

Dugong dugon Dugong (22) + - - - - + + - 4 3

Gazella dorcas saudiya Saudi Arabian dorcas gazelle(6) + - - - - + + - 4 4

Gazella gazella arabica Arabian gazelle(5) + - - - - + + - 4 4

SPAIN

Galemys pyrenaicus Pyrenean desman(3) - + - - - - + - 4 4

Felis lynx pardina Spanish lynx + + - - + - - o 3 4

Monachus monachus Mediterranean monk seal (13) + - - - - + + - 1 1

Capra pyrenaica pyrenaica Pyrenean ibex + - - + - + + + 1 2

SPANISH SAHARA (Spain)

Monachus monachus Mediterranean monk seal (13) + - - - - + + - 1 1

Addax nasomaculatus Addax (7) + - - - - o + - 4 3

Gazella dama lozanoi Rio de Oro dama gazelle (2) o o o o o o o o 4 4

SYRIA

Equus hemionus hemippus Syrian wild ass(2) + - - - + - + + 4 2

Gazella gazella arabica Arabian gazelle(5) + - - - - + + - 4 4

TAIWAN

Selenarctos thibetanus formosanus Formosan black bear (2) o o o o o o o o 4 4

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Thalarctos maritimus</u>	Polar bear (5)	+	-	-	-	-	o	-	-	4	4
<u>Felis margarita thinobius</u>	Turkmenian sand cat	o	o	o	o	o	o	o	o	4	4
<u>Felis caracal michaëlis</u>	Turkmenian caracal lynx	o	o	o	o	o	o	o	o	4	4
<u>Panthera tigris virgata</u>	Caspian tiger (3)	+	+	-	-	-	o	+	o	1	4
<u>Panthera tigris altaica</u>	Amur tiger (3)	+	-	-	-	-	o	-	-	3	4
<u>Panthera pardus tulliana</u>	Anatolian leopard	o	o	o	o	o	o	o	o	4	4
<u>Panthera pardus orientalis</u>	⁽³⁾ Korean leopard (3)	o	o	o	o	o	o	o	o	4	4
<u>Panthera uncia</u>	Snow leopard (4)	+	-	-	-	-	+	o	-	4	3
<u>Acinonyx jubatus venaticus</u>	Asiatic cheetah (5)	+	+	-	-	-	o	+	+	1	4
<u>Odobenus rosmarus rosmarus</u>	Atlantic walrus (4)	+	-	-	-	-	o	+	-	4	4
<u>Phoca kurilensis</u>	Kurile harbour seal (2)										
<u>Monachus monachus</u>	Mediterranean monk seal (13)	+	-	-	-	-	+	+	-	1	1
<u>Equus hemionus hemionus</u>	Mongolian wild ass	+	-	+	-	-	+	+	-	4	4
<u>Equus hemionus onager</u>	⁽³⁾ Persian onager (3)	+	-	-	-	-	+	-	-	4	4
<u>Cervus elaphus bactrianus</u>	Bactrian wapiti (2)	+	+	-	-	-	o	-	-	4	4
<u>Rangifer tarandus pearsoni</u>	Novaya Zemlya reindeer										
		o	o	o	o	-	o	+	o	1	2
<u>YUGOSLAVIA</u>											
<u>Monachus monachus</u>	Mediterranean monk seal (13)	+	-	-	-	-	+	+	-	1	1

B. ORIENTAL REGION

AFGHANISTAN

<u>Panthera tigris virgata</u>	Caspian tiger (3)	+	+	-	-	-	o	+	o	1	4
<u>Acinonyx jubatus venaticus</u>	Asiatic cheetah (5)	+	+	-	-	-	o	+	+	1	4
<u>Equus hemionus onager</u>	Persian onager (3)	+	-	-	-	-	+	-	-	4	4
<u>Cervus elaphus bactrianus</u>	Bactrian wapiti (2)	+	+	-	-	-	o	-	-	4	4
<u>Capra falconeri jerdoni</u>	Straight-horned markhor (2)										
		+	-	-	+	-	+	-	-	4	4

1 2 3 4 5 6 7 8 9 10

BALI (Indonesia)

Panthera tigris balica Bali tiger + - - - o o + + 1 2

BORNEO (Indonesia)

Pongo pygmaeus Orang-utan (4) + + - - o o - - 2 3

Lariscus hosei Four-striped ground squirrel(3) o o o o o o - + 4 1

Cynogale bennetti Otter civet (6) o o o + o o o + 4 3

Didermoceros sumatrensis Sumatran rhinoceros (10) + - - - - + + - 1 1

BURMA

Dugong dugon Dugong (22) + - - - - + + - 4 3

Rhinoceros sondaicus Javan rhinoceros(2)+ + - - + + - + 1 1

Didermoceros sumatrensis Sumatran rhinoceros (10) + - - - - + + - 1 1

Muntiacus feae Fea's muntjac (2) + - - - o o + + 4 3

CAMBODIA

Cynogale bennetti Otter civet (6) o o o + o o o + 4 3

Didermoceros sumatrensis Sumatran rhinoceros (10) + - - - - + + - 1 1

Cervus eldi siamensis Thailand brow-antlered deer(5) + - - - - o - - 4 2

Bos sauveli Kouprey + - - + - o - + 1 1

CEYLON

Elephas maximus maximus Ceylon elephant + + - - - o - - 4 4

Dugong dugon Dugong (22) + - - - - + + - 4 3

INDIA

Rhinopithecus roxellanae Snub-nosed monkey (3) + - - - - o + o 4 3

Caprolagus hispidus Hispid hare - + - - + - + + 1 1

Viverra megaspila civettina Malabar civet o o o o + - o o 1 2

Panthera leo persica Asiatic lion (2) + + - - - o - - 4 4

Dugong dugon Dugong (22) + - - - - + + - 4 3

Panthera uncia Snow leopard (4) + - - - - + o - 4 3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Equus hemionus khur</u>	Indian wild ass (2)	+	-	+	-	o	o	+	-	4	4
<u>Equus hemionus kiang</u>	Tibetan wild ass (4)	+	-	-	-	-	+	+	-	4	4
<u>Rhinoceros unicornis</u>	Great Indian rhinoceros (2)	-	-	+	-	-	-	-	-	3	3
<u>Didermoceros sumatrensis</u>	Sumatran rhinoceros (10)	+	-	-	-	-	+	+	-	1	1
<u>Sus salvanius</u>	Pygmy hog (2)	-	+	-	-	+	-	+	+	1	1
<u>Cervus duvauceli</u>	Swamp deer (2)	+	+	-	-	-	+	-	o	4	3
<u>Cervus eldi eldi</u>	Manipur brow- antlered deer	+	-	-	-	-	o	-	-	2	4
<u>Cervus elaphus hanglu</u>	Kashmir stag	+	o	-	+	+	-	+	+	1	2
<u>Bubalus bubalis</u>	Asiatic buffalo (2)	+	+	-	+	-	+	-	-	4	3
<u>Hemitragus hyllocrius</u>	Nilgiri tahr	+	-	-	-	-	+	-	-	4	3
<u>SIKKIM (India)</u>											
<u>Equus hemionus kiang</u>	Tibetan wild ass (4)	+	-	-	-	-	+	+	-	4	4
<u>Bos grunniens mutus</u>	Wild yak (2)	+	-	-	-	-	o	+	-	2	4
<u>JAVA (Indonesia)</u>											
<u>Panthera tigris sondaica</u>	Javan tiger	+	-	-	-	-	o	-	-	1	2
<u>Rhinoceros sondaicus</u>	Javan rhinoceros (2)	+	+	-	-	+	+	-	+	1	1
<u>LAOS</u>											
<u>Pygathrix nemaeus</u>	Douc langur (3)	o	o	o	o	o	o	o	o	4	3
<u>Chrotogale owstoni</u>	Owston's banded civet (2)	o	o	o	o	o	o	o	+	4	3
<u>Cynogale bennetti</u>	Otter civet (6)	o	o	o	+	o	o	o	+	4	3
<u>Didermoceros sumatrensis</u>	Sumatran rhinoceros (10)	+	-	-	-	-	+	+	-	1	1
<u>Cervus eldi siamensis</u>	Thailand brow- antlered deer (5)	+	-	-	-	-	o	-	-	4	2
<u>MALAYA (= MALAYSIA)</u>											
<u>Cynogale bennetti</u>	Otter civet (6)	o	o	o	+	o	o	o	+	4	3
<u>Didermoceros sumatrensis</u>	Sumatran rhinoceros (10)	+	-	-	-	-	+	+	-	1	1
<u>Bos gaurus hubbacki</u>	Seladang	+	-	-	-	-	+	-	-	1	4

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NEPAL

<u>Equus hemionus kiang</u>	Tibetan wild ass(4)	+ - - - - + + -	4 4
<u>Rhinoceros unicornis</u>	Great Indian rhinoceros (2)	- - + - - - - -	4 4
<u>Sus salvanius</u>	Pygmy hog (2)	- + - - + - + +	1 1
<u>Cervus duvauceli</u>	Swamp deer (2)	+ + - - - + - o	4 3
<u>Bubalus bubalis</u>	Asiatic buffalo(2)	+ + - + - + - -	4 3

PAKISTAN

<u>Selenarctos thibetanus gedrosianus</u>	Himalayan black bear	- - - + + - + -	4 4
<u>Acinonyx jubatus venaticus</u>	Asiatic cheetah(5)	+ + - - - o + +	1 4
<u>Equus hemionus khur</u>	Indian wild ass(2)	+ - + - o o + -	4 4
<u>Capra falconeri jerdoni</u>	Straight-horned markhor (2)	+ - - + - + - -	4 4

PHILIPPINES

<u>Podogymnura truei</u>	Mindanao gymnure	+ - - - o o + o	4 3
<u>Dugong dugon</u>	Dugong (22)	+ - - - - + + -	4 3
<u>Anoa mindorensis</u>	Tamarau	+ + - - + + - -	1 1

SABAH (Malaysia)

<u>Pongo pygmaeus</u>	Orang-utan (4)	+ + - - o o - -	2 3
<u>Lariscus hosei</u>	Four-striped ground squirrel(3)	o o o o o o - +	4 1
<u>Didermoceros sumatrensis</u>	Sumatran rhinoceros (10)	+ - - - - + + -	1 1

SARAWAK (Malaysia)

<u>Pongo pygmaeus</u>	Orang-utan (4)	+ + - - o o - -	2 3
<u>Lariscus hosei</u>	Four-striped ground squirrel(3)	o o o o o o - +	4 1

SUMATRA (Indonesia)

<u>Simias concolor</u>	Pig-tailed langur	o o o o o o o o	4 4
<u>Hylobates klossii</u>	Dwarf gibbon	o o o o o o o o	4 4
<u>Pongo pygmaeus</u>	Orang-utan (4)	+ + - - o o - -	2 3
<u>Nesolagus netscheri</u>	Short-eared rabbit	- + - - o o + o	4 3
<u>Cynogale bennetti</u>	Otter civet (6)	o o o + o o o +	4 3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Panthera tigris sumatrae</u>	Sumatran tiger	+	-	-	-	o	o	+	-	4	2
<u>Didermoceros sumatrensis</u>	Sumatran rhinoceros (10)	+	-	-	-	-	+	+	-	1	1
<u>Capricornis sumatraensis</u> <u>sumatraensis</u>	Sumatran serow	o	o	o	o	-	+	+	o	4	4
<u>THAILAND</u>											
<u>Didermoceros sumatrensis</u>	Sumatran rhinoceros (10)	+	-	-	-	-	+	+	-	1	1
<u>Muntiacus feae</u>	Fea's muntjac (2)	+	-	-	-	o	o	+	+	4	3
<u>Cervus eldi siamensis</u>	Thailand brow- antlered deer (5)	+	-	-	-	-	o	-	-	4	2
<u>VIETNAM</u>											
<u>Pygathrix nemaeus</u>	Douc langur (3)	o	o	o	o	o	o	o	o	4	3
<u>Chrotogale owstoni</u>	Owston's banded civet (2)	o	o	o	o	o	o	o	o	4	3
<u>Cynogale bennetti</u>	Otter civet (6)	o	o	o	+	o	o	o	+	4	3
<u>Didermoceros sumatrensis</u>	Sumatran rhinoceros (10)	+	-	-	-	-	+	+	-	1	1
<u>Cervus eldi siamensis</u>	Thailand brow- antlered deer (5)	+	-	-	-	-	o	-	-	4	2

C. AUSTRALASIAN REGION

<u>AUSTRALIA</u>											
<u>Planigale tenuirostris</u>	Southern planigale	-	+	+	-	+	-	o	+	4	3
<u>Planigale subtilissima</u>	Kimberley planigale	-	-	+	-	-	o	o	+	4	3
<u>Phascogale calura</u>	Red-tailed phascogale	-	-	+	-	-	o	o	+	4	3
<u>Sminthopsis longicaudata</u>	Long-tailed sminthopsis	o	o	o	o	-	o	+	+	4	1
<u>Antechinomys laniger</u>	Eastern jerboa marsupial	o	o	o	o	o	o	o	+	4	3
<u>Dasyurus viverrinus</u>	Eastern native cat	+	-	-	-	-	o	o	-	4	4
<u>Dasyurus geoffroyi geoffroyi</u>	Western native cat	+	-	-	-	+	o	o	+	4	2
<u>Thylacinus cynocephalus</u>	Thylacine	o	o	o	o	-	o	-	+	1	1

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Myrmecobius fasciatus rufus</u>	Rusty numbat	-	+	-	-	-	o	-	+	4	2
<u>Perameles fasciata</u>	Eastern barred-bandicoot	o	o	o	o	+	-	+	+	4	1
<u>Perameles bougainvillei</u>	Western barred-bandicoot	o	o	o	o	-	o	-	+	4	3
<u>Macrotis lagotis</u>	Rabbit bandicoot	+	-	+	-	-	o	o	o	4	3
<u>Chaeropus ecaudatus</u>	Pig-footed bandicoot	-	+	+	-	+	-	o	+	4	1
<u>Phalanger orientalis peninsulae</u>	Grey cuscus	o	o	o	o	+	-	+	+	4	4
<u>Gymnobelideus leadbeateri</u>	Leadbeater's possum	o	o	o	o	-	o	+	-	4	3
<u>Wyulda squamicaudata</u>	Scaly-tailed possum	o	o	o	o	-	o	+	+	4	1
<u>Pseudocheirus occidentalis</u>	Western ring-tail	o	o	o	o	-	o	o	o	4	1
<u>Vombatus ursinus ursinus</u>	Flinders Island wombat	+	+	-	-	+	-	+	o	4	4
<u>Lasiorhinus latifrons latifrons</u>	Hairy-nosed wombat	+	-	-	-	+	-	+	-	4	4
<u>Lagorchestes hirsutus</u>	Western hare-wallaby	o	o	o	o	-	o	+	+	4	1
<u>Lagostrophus fasciatus</u>	Banded hare-wallaby	-	+	+	-	-	o	-	+	4	3
<u>Petrogale penicillata penicillata</u>	Brush-tailed rock-wallaby	+	+	-	-	-	o	+	-	4	4
<u>Petrogale xanthopus xanthopus</u>	Ring-tailed rock-wallaby	+	-	-	-	-	+	o	-	4	4
<u>Onychogalea fraenata</u>	Bridled nail-tail wallaby	o	o	o	o	+	-	-	+	4	3
<u>Macropus parma</u>	White-throated wallaby	-	+	-	-	-	o	+	+	4	1
<u>Bettongia penicillata</u>	Brush-tailed rat-kangaroo	+	-	-	-	+	-	o	o	4	2
<u>Bettongia lesueuri</u>	Lesueur's rat-kangaroo	-	+	+	-	-	o	+	o	4	4
<u>Bettongia gaimardi cuniculus</u>	Tasmanian rat-kangaroo	-	+	-	-	-	o	o	o	4	3
<u>Caloprymnus campestris</u>	Desert rat-kangaroo	o	o	o	o	+	-	+	+	4	1

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Potorous tridactylus</u> <u>tridactylus</u>	Long-nosed rat- kangaroo	-	+	-	-	-	o	+	-	4	4
<u>Hypsiprymnodon moschatus</u>	Musky rat- kangaroo	-	+	-	-	-	o	o	+	4	3
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>CELEBES (Indonesia)</u>											
<u>Anoa depressicornis</u> <u>depressicornis</u>	Lowland anoa	+	+	-	-	-	+	-	-	1	4
<u>Anoa depressicornis fergusonii</u>	Mountain anoa	+	-	-	-	o	-	+	o	1	4
<u>Anoa depressicornis quarlesi</u>	Quarle's anoa	+	-	-	-	o	-	+	o	1	2
<u>NEW GUINEA</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3

D. ETHIOPIAN REGION

ANGOLA

<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>Hippotragus niger variani</u>	Giant sable antelope	o	o	o	o	-	-	-	+	2	4
<u>Aepyceros melampus petersi</u>	Black-faced impala (2)	+	-	-	-	-	+	+	o	3	4

BOTSWANA

<u>Hyaena brunnea</u>	Brown hyaena (4)	+	-	-	-	-	o	-	-	4	4
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4

CAMEROUN

<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>CENTRAL AFRICAN REPUBLIC</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Ceratotherium simum cottoni</u>	Northern square-lipped rhinoceros (4)	o	o	o	o	-	+	-	o	4	4
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>CHAD</u>											
<u>Equus asinus africanus</u>	Nubian wild ass(4)	-	-	+	-	-	o	+	-	1	4
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>Oryx tao</u>	Scimitar-horned oryx (5)	+	-	-	-	+	+	-	-	4	4
<u>Addax nasomaculatus</u>	Addax (7)	+	-	-	-	-	o	+	-	4	3
<u>Gazella leptoceros leptoceros</u>	Slender-horned gazelle (6)	o	o	o	o	+	-	+	-	4	4
<u>CONGO KINSHASA</u>											
<u>Pan paniscus</u>	Pygmy chimpanzee	-	+	-	-	-	-	+	-	4	3
<u>Gorilla gorilla beringei</u>	Mountain gorilla(3)	-	+	+	+	-	+	-	-	4	4
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Ceratotherium simum cottoni</u>	Northern square-lipped rhinoceros (4)	o	o	o	o	-	+	-	o	4	4
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>DAHOMEY</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>ETHIOPIA</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Equus asinus somalicus</u>	Somali wild ass (2)	+	-	+	-	o	o	+	-	4	4
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>Alcelaphus buselaphus tora</u>	Tora hartebeest (2)	o	o	o	o	o	o	o	o	4	4
<u>Alcelaphus buselaphus swaynei</u>	Swayne's hartebeest	o	o	o	o	-	+	+	+	1	2
<u>Capra walie</u>	Walia ibex	+	-	-	-	-	+	+	+	1	3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>GABON</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>GAMBIA</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Taurotragus derbianus</u> <u>derbianus</u>	Western giant eland (4)	+	-	-	+	-	+	-	+	1	2
<u>GHANA</u>											
<u>Colobus verus</u>	Green colobus (6)	+	-	-	-	-	o	+	+	2	3
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>GUINEA</u>											
<u>Colobus verus</u>	Green colobus (6)	+	-	-	-	-	o	+	+	2	3
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Choeropsis liberiensis</u>	Pygmy hippopotamus (5)	+	-	-	o	-	o	+	-	4	3
<u>Taurotragus derbianus</u> <u>derbianus</u>	Western giant eland (4)	+	-	-	+	-	+	-	+	1	2
<u>IVORY COAST</u>											
<u>Colobus verus</u>	Green colobus (6)	+	-	-	-	-	o	+	+	2	3
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Choeropsis liberiensis</u>	Pygmy hippopotamus (5)	+	-	-	o	-	o	+	-	4	3
<u>Cephalophus jentinki</u>	Jentink's duiker (3)	o	o	o	-	o	+	+	+	4	3
<u>KENYA</u>											
<u>Cercocebus galeritus galeritus</u>	Tana river mangabey	-	+	-	-	-	o	+	+	1	2
<u>Colobus badius rufomitratu</u> s	Tana river red colobus	-	+	-	-	-	o	+	+	2	4
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4

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LIBERIA

<u>Colobus verus</u>	Green colobus (6)	+ - - - - o + +	2 3
<u>Trichechus senegalensis</u>	West African manatee (19)	+ - - - - + + -	4 3
<u>Choeropsis liberiensis</u>	Pygmy hippopotamus (5)	+ - - o - o + -	4 3
<u>Cephalophus jentinki</u>	Jentink's duiker (3)	o o o o - o + +	4 3

MADAGASCAR

<u>Hapalemur griseus</u>	Grey gentle lemur	- + - - - o - -	4 3
<u>Hapalemur simus</u>	Broad-nosed gentle lemur	+ + - - + - + -	1 1
<u>Lemur macaco macaco</u>	Black lemur	+ + - - - + - -	4 4
<u>Lemur macaco rufus</u>	Red-fronted lemur	- + - - + - + -	4 4
<u>Lemur macaco flavifrons</u>	Sclater's lemur	- + - - + - + +	4 4
<u>Lemur macaco sanfordi</u>	Sanford's lemur	- + - - - o - +	4 4
<u>Lemur mongoz mongoz</u>	Mongoose lemur	- + - - - o - -	4 4
<u>Lemur mongoz coronatus</u>	Crowned lemur	- + - - - o - -	4 4
<u>Lepilemur mustelinus ruficaudatus</u>	Red-tailed weasel lemur	+ + - - - + - +	4 4
<u>Lepilemur mustelinus dorsalis</u>	Nossi-Bé weasel lemur	- + - - - + - +	4 4
<u>Lepilemur mustelinus leucopus</u>	White-footed weasel lemur	- + - - + - + +	4 2
<u>Cheirogaleus trichotis</u>	Hairy-eared dwarf lemur	o o o o + - + +	4 1
<u>Cheirogaleus medius</u>	Fat-tailed lemur	- + - - - o - -	4 3
<u>Microcebus coquereli</u>	Coquerel's mouse lemur	- + - - - o - +	2 1
<u>Phaner furcifer</u>	Fork-marked mouse lemur	- + - - - o - -	4 3
<u>Avahi laniger occidentalis</u>	Western woolly avahi	+ + - - + o - +	4 4
<u>Propithecus diadema perrieri</u>	Perrier's sifaka	o o o o o o o o	4 4
<u>Propithecus verreauxi verreauxi</u>	Verreaux's sifaka	+ + - - - o - -	4 4
<u>Propithecus verreauxi coquereli</u>	Coquerel's sifaka	- + - - - - - -	4 4
<u>Propithecus verreauxi deckenii</u>	Decken's sifaka	- + - - - o - -	4 4
<u>Propithecus verreauxi coronatus</u>	Crowned sifaka	- + - - - o - -	4 4

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Propithecus verreauxi majori</u>	Forsyth-Major's sifaka	o	o	o	o	+	-	+	+	1	2
<u>Indri indri</u>	Indris	+	+	-	-	-	+	-	+	2	3
<u>Daubentonia madagascariensis</u>	Aye-aye	-	+	-	-	-	o	-	-	1	1
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>MALAWI</u>											
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>MALI</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	-	-	-	-	-	+	+	-	4	3
<u>Taurotragus derbianus</u> <u>derbianus</u>	Western giant eland (4)	-	-	-	+	+	+	-	+	1	2
<u>Oryx tao</u>	Scimitar-horned oryx (5)	+	-	-	-	+	+	-	-	4	4
<u>Addax nasomaculatus</u>	Addax (7)	+	-	-	-	-	o	+	-	4	3
<u>MAURITANIA</u>											
<u>Oryx tao</u>	Scimitar-horned oryx (5)	+	-	-	-	+	+	-	-	4	4
<u>Addax nasomaculatus</u>	Addax (7)	+	-	-	-	-	o	+	-	4	3
<u>Gazella dama lozanoi</u>	Rio de Oro dama gazelle (7)	o	o	o	o	o	o	o	o	4	4
<u>MOCAMBIQUE</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Diceros bicornis</u>	Black rhinoceros (17)	+	-	-	-	-	o	-	-	4	4
<u>MUSCAT AND OMAN</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Oryx leucoryx</u>	Arabian oryx (2)	+	-	-	-	-	o	+	-	1	3
<u>Hemitragus jayakari</u>	Arabian tahr	o	o	o	o	+	-	+	+	4	3
<u>NIGER</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Oryx tao</u>	Scimitar-horned oryx (5)	+	-	-	-	+	+	-	-	4	4
<u>Addax nasomaculatus</u>	Addax (7)	+	-	-	-	-	o	+	-	4	3
<u>Gazella leptoceros leptoceros</u>	Slender-horned gazelle (6)	o	o	o	o	+	-	+	-	4	4
<u>NIGERIA</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Choeropsis liberiensis</u>	Pygmy hippopotamus (5)	+	-	-	o	-	o	+	-	4	3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>PORTUGUESE GUINEA</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>RHODESIA</u>											
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>Hyaena brunnea</u>	Brown hyaena (4)	+	-	-	-	-	o	-	-	4	4
<u>RIO MUNI</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>RWANDA</u>											
<u>Gorilla gorilla beringei</u>	Mountain gorilla (3)	-	+	+	+	-	+	-	-	4	4
<u>SAUDI ARABIA</u>											
<u>Panthera pardus nimr</u>	Arabian leopard	o	o	o	o	o	o	o	o	4	4
<u>Acinonyx jubatus venaticus</u>	Asiatic cheetah (5)	+	+	-	-	-	o	+	+	1	4
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Oryx leucoryx</u>	Arabian oryx (2)	+	-	-	-	-	o	+	-	1	3
<u>Gazella dorcas saudiya</u>	Saudi Arabian dorcas gazelle (6)	+	-	-	-	-	+	+	-	4	4
<u>Gazella gazella arabica</u>	Arabian gazelle (5)	+	-	-	-	-	+	+	-	4	4
<u>Gazella leptoceros marica</u>	Sand gazelle	+	-	-	-	o	o	o	o	4	4
<u>SENEGAL</u>											
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>Taurotragus derbianus</u> <u>derbianus</u>	Western giant eland (4)	+	-	-	+	-	+	-	+	1	2
<u>SIERRA LEONE</u>											
<u>Colobus verus</u>	Green colobus (6)	+	-	-	-	-	o	+	+	2	3
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3

<u>Choeropsis liberiensis</u>	Pygmy hippopotamus	+ - - o - o + -	4 3
<u>Cephalophus jentinki</u>	Jentink's duiker	o o o o - o + +	4 3

SOMALIA

<u>Dugong dugon</u>	Dugong (22)	+ - - - - + + -	4 3
<u>Equus asinus somalicus</u>	Somali wild ass (2)	+ - + - o o + -	4 4
<u>Diceros bicornis</u>	Black rhinoceros	+ - - - - o - -	4 4
<u>Dorcatragus megalotis</u>	Beira antelope	o o o o - o + o	4 3
<u>Gazelle pelzelni</u>	Pelzeln's gazelle	o o o o + - + o	4 3

SOUTH AFRICA

<u>Hyaena brunnea</u>	Brown hyaena (4)	+ - - - - o - -	4 4
<u>Equus zebra zebra</u>	Cape mountain zebra	- - + - o o - -	3 4
<u>Diceros bicornis</u>	Black rhinoceros	+ - - - - o - -	4 4
<u>Damaliscus dorcas dorcas</u>	Bontebok	- - - + + o - -	4 4

SOUTH WEST AFRICA

<u>Hyaena brunnea</u>	Brown hyaena (4)	+ - - - - o - -	4 4
<u>Equus zebra hartmannae</u>	Hartmann's mountain zebra	+ - + - - + + -	4 4
<u>Diceros bicornis</u>	Black rhinoceros	+ - - - - o - -	4 4
<u>Aepyceros melampus petersi</u>	Black-faced impala	+ - - - - + + o	3 4

SUDAN

<u>Dugong dugon</u>	Dugong (22)	+ - - - - + + -	4 3
<u>Equus asinus africanus</u>	Nubian wild ass (4)	- - + - - o + -	1 4
<u>Ceratotherium simum cottoni</u>	Northern square-lipped rhinoceros	o o o o - + - o	4 4
<u>Diceros bicornis</u>	Black rhinoceros	+ - - - - o - -	4 4
<u>Oryx tao</u>	Scimitar-horned oryx (5)	+ - - - - + + -	4 4
<u>Addax nasomaculatus</u>	Addax (7)	+ - - - - o + -	4 3
<u>Alcelaphus buselaphus tora</u>	Tora hartebeest (2)	o o o o o o o o	4 4
<u>Gazella leptoceros leptoceros</u>	Slender-horned gazelle (6)	o o o o + - + -	4 4

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>TANZANIA</u>											
<u>Colobus badius kirkii</u>	Zanzibar red colobus	+	+	+	-	-	o	-	-	3	4
<u>Colobus badius gordonorum</u>	Uhehe red colobus	+	+	-	-	-	+	-	+	4	4
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>Nesotragus moschatus moschatus</u>	Zanzibar suni	o	o	o	o	o	o	o	o	4	4
<u>TOGO</u>											
<u>Colobus verus</u>	Green colobus (6)	+	-	-	-	-	o	+	+	2	3
<u>Trichechus senegalensis</u>	West African manatee (19)	+	-	-	-	-	+	+	-	4	3
<u>UGANDA</u>											
<u>Gorilla gorilla beringei</u>	Mountain gorilla (3)	-	+	+	+	-	+	-	-	4	4
<u>Ceratotherium simum cottoni</u>	Northern square-lipped rhinoceros (4)	o	o	o	o	-	+	-	o	4	4
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>YEMEN</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Gazella dorcas saudiya</u>	Saudi Arabian dorcas gazelle (6)	+	-	-	-	-	+	+	-	4	4
<u>ZAMBIA</u>											
<u>Diceros bicornis</u>	Black rhinoceros (18)	+	-	-	-	-	o	-	-	4	4
<u>Kobus leche smithemani</u>	Black lechwe	+	-	-	-	+	-	-	+	2	4

E. NEARCTIC REGION

CANADA

<u>Cynomys ludovicianus</u>	Black-tailed prairie dog (3)	-	+	-	+	+	-	o	2	3	
<u>Vulpes velox hebes</u>	Northern swift fox (2)	+	-	+	-	+	-	+	+	1	4

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Ursus americanus emmonsi</u>	Glacier bear (2)	-	+	-	-	-	+	-	-	4	4
<u>Ursus richardsoni</u>	Barren ground grizzly bear	o	o	o	o	+	-	+	o	4	3
<u>Thalarctos maritimus</u>	Polar bear (5)	+	-	-	-	-	o	-	-	4	4
<u>Mustela nigripes</u>	Black footed ferret (2)	+	+	-	-	o	o	+	-	1	1
<u>Felis concolor couguar</u>	Eastern panther	+	-	-	+	o	o	+	+	4	4
<u>Odobenus rosmarus</u> <u>rosmarus</u>	Atlantic walrus (4)	+	-	-	-	-	o	+	+	4	4
<u>Bison bison athabascae</u>	Wood bison	-	-	-	+	-	o	-	-	3	4
<u>MEXICO</u>											
<u>Romerolagus diazi</u>	Volcano rabbit	+	+	-	-	-	+	+	o	2	3
<u>Cynomys ludovicianus</u>	Black-tailed prairie dog (3)	-	+	-	+	+	-	-	o	2	3
<u>Cynomys mexicanus</u>	Mexican prairie dog	+	+	-	+	+	-	+	o	4	3
<u>Ursus nelsoni</u>	Mexican grizzly bear	+	-	-	-	+	-	+	o	1	1
<u>Felis pardalis</u> <u>albescens</u>	Texas ocelot (2)	+	+	-	-	+	-	+	o	4	4
<u>Felis wiedii cooperi</u>	Texas margay (2)	o	o	o	o	+	-	o	o	4	4
<u>Monachus tropicalis</u>	Caribbean monk seal (3)	+	-	-	-	o	o	+	+	1	1
<u>Trichechus manatus</u> <u>manatus</u>	West Indian manatee(17)	+	-	-	-	-	+	+	o	4	4
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3
<u>Antilocapra americana</u> <u>peninsularis</u>	Lower California pronghorn	+	-	+	-	-	+	+	o	1	4
<u>Antilocapra americana</u> <u>sonoriensis</u>	Sonora pronghorn	+	-	+	-	-	o	-	+	1	2
<u>GUADALUPE ISLAND</u>											
<u>Arctocephalus philippi</u>	Guadalupe fur seal	+	-	-	-	-	+	+	+	4	4
<u>U.S.A.</u>											
<u>Myotis sodalis</u>	Indiana bat	-	-	-	+	+	-	+	o	4	3
<u>Sciurus kaibabensis</u>	Kaibab squirrel	+	-	-	+	+	-	-	-	4	3
<u>Sciurus niger cinereus</u>	Delmarva Peninsula fox squirrel	-	+	-	-	+	-	+	o	4	4
<u>Sciurus niger vulpinus</u>	Eastern fox squirrel	+	+	-	-	o	o	+	o	4	4

1 2 3 4 5 6 7 8 9 10

<u>Cynomys ludovicianus</u>	Black-tailed prairie dog (3)	- + - + + - - o 2 3
<u>Cynomys parvidens</u>	Utah prairie dog	- - - + + - + - 4 3
<u>Dipodomys elephantinus</u>	Big-eared kangaroo rat	o o o o o o o o 4 4
<u>Dipodomys elator</u>	Texas kangaroo rat	o o o o o o o o 4 4
<u>Microtus pennsylvanicus provectus</u>	Block Island meadow vole	- + - - + - + o 4 4
<u>Microtus breweri</u>	Beach meadow vole	- + + - - o - o 4 1
<u>Canis niger</u>	Red wolf	+ + - - - + + - 1 1
<u>Vulpes macrotis mutica</u>	San Joaquin kit fox	+ + - + - - + o 1 4
<u>Vulpes velox hebes</u>	Northern swift fox (2)	+ - + - + - + + 1 4
<u>Ursus americanus emmonsii</u>	Glacier bear (2)	- + - - - + - - 4 4
<u>Thalarctos maritimus</u>	Polar bear (5)	+ - - - - o - - 4 4
<u>Mustela nigripes</u>	Black-footed ferret (2)	+ + - - o o + - 1 1
<u>Enhydra lutris nereis</u>	Southern sea otter	+ - - + - o + + 4 4
<u>Felis pardalis albescens</u>	Texas ocelot (2)	+ + - - + - + o 4 4
<u>Felis wiedii cooperi</u>	Texas margay (2)	o o o o + - o o 4 4
<u>Felis concolor coryi</u>	Florida cougar	+ - - - - o + o 4 4
<u>Trichechus manatus latirostris</u>	Florida manatee	+ - - - - o - - 4 4
<u>Cervus nannodes</u>	Tule elk	- - - - - - - - 4 4
<u>Odocoileus virginianus clavium</u>	Key deer	- + - + - o - o 4 4
<u>Odocoileus virginianus leucurus</u>	Columbia white-tailed deer	o - - - + o o o 4 4
<u>Antilocapra americana sonoriensis</u>	Sonora pronghorn (2)	+ - + - - o - + 1 2

F. NEOTROPICAL REGION

ARGENTINA

<u>Priodontes giganteus</u>	Giant armadillo(10)	+ - - - + - + - 4 3
<u>Chlamyphorus truncatus</u>	Lesser pichiciego	- + + - + - + o 4 3
<u>Burmeisteria retusa</u>	Greater pichiciego	o o o o o o o o 4 3
<u>Chrysocyon brachyurus</u>	Maned wolf (4)	+ - - - + o + - 4 3
<u>Pteronura brasiliensis</u>	Giant otter (9)	+ o o o + - + - 1 1
<u>Ozotoceros bezoarticus</u>	Pampas deer (4)	+ + - + - o + - 1 3

BAHAMAS (U.K.)

<u>Geocapromys ingrahami</u>	Bahaman hutia	+ - - - + - + + 4 3
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1 2 3 4 5 6 7 8 9 10

BOLIVIA

<u>Priodontes giganteus</u>	Giant armadillo (10)	+ - - - + - + -	4 3
<u>Burmeisteria retusa</u>	Greater pichiciego	o o o o o o o o	4 4
<u>Chinchilla laniger</u>	⁽³⁾ Chinchilla (2)	+ - - - - + + -	4 3
<u>Chrysocyon brachyurus</u>	Maned wolf (4)	+ - - - + o + -	4 3
<u>Speothos venaticus</u>	Bush dog (9)	o o o o o o + o	4 3
<u>Tremarctos ornatus</u>	Spectacled bear (5)	- + - - o o + -	4 3
<u>Pudu pudu</u>	Chilean pudu (2)	o - - - - o - -	2 3

BRAZIL

<u>Cacajao calvus</u>	Bald uakari	+ - - - + - + -	1 1
<u>Cacajao rubicundus</u>	Red uakari (2)	+ - - - + - + -	1 3
<u>Cacajao melanocephalus</u>	Black-headed uakari	+ - - - + - + -	1 3
<u>Chiropotes albinasus</u>	White-nosed saki	- - - + + - + +	4 4
<u>Brachyteles arachnoides</u>	Woolly spider monkey	- + - - + - + +	1 3
<u>Callimico goeldii</u>	Goeldi's tamarin (2)	+ - - - + - + -	4 3
<u>Leontideus rosalia</u>	Golden lion marmoset	+ + - - + - + -	1 1
<u>Leontideus chrysomelas</u>	Golden-headed tamarin	o o o o o o o o	4 4
<u>Leontideus chrysopygus</u>	Golden-rumped tamarin	o o o o o o o o	4 4
<u>Priodontes giganteus</u>	Giant armadillo (10)	+ - - - + o + -	4 3
<u>Chrysocyon brachyurus</u>	Maned wolf (4)	+ - - - + o + -	4 3
<u>Speothos venaticus</u>	Bush dog (9)	o o o o o o + o	4 3
<u>Pteronura brasiliensis</u>	Giant otter (9)	+ o o o + - + -	1 1
<u>Trichechus inunguis</u>	Amazonian manatee	+ - - - - + + -	4 3
<u>Ozotoceros bezoarticus</u>	Pampas deer (4)	+ + - + - o + -	1 3

BRITISH HONDURAS (U.K.)

<u>Monachus tropicalis</u>	Caribbean monk seal (3)	+ - - - o o + +	1 1
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+ - - - - + + o	4 4
<u>Tapirus bairdii</u>	Central American tapir (10)	+ + - - - o + -	2 3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>CHILE</u>											
<u>Chinchilla laniger</u>	Chinchilla (2)	+	-	-	-	-	+	+	-	4	3
<u>Pudu pudu</u>	Chilean pudu (2)	o	-	-	-	-	o	-	-	2	3
<u>COLOMBIA</u>											
<u>Priodontes giganteus</u>	Giant armadillo (10)	+	-	-	-	+	-	+	-	4	3
<u>Speothos venaticus</u>	Bush dog (9)	o	o	o	o	o	o	+	o	4	3
<u>Tremarctos ornatus</u>	Spectacled bear (5)	-	+	-	-	o	o	+	-	4	3
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>Tapirus pinchaque</u>	Mountain tapir (4)	-	+	-	-	o	o	o	+	4	3
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3
<u>COSTA RICA</u>											
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3
<u>CUBA</u>											
<u>Atopogale cubana</u>	Cuban solenodon	+	-	+	-	+	-	+	-	1	3
<u>Capromys melanurus</u>	Bushy-tailed hutia	+	+	+	-	-	o	+	o	1	3
<u>Capromys nana</u>	Dwarf hutia	-	-	+	-	-	+	-	o	1	1
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>DOMINICAN REPUBLIC</u>											
<u>Solenodon paradoxus</u>	Haitian solenodon	-	+	+	-	+	-	+	-	4	3
<u>Plagiodontia aedium</u>	Cuvier's hutia (2)	+	-	-	-	o	o	+	o	4	1
<u>Plagiodontia hylaeum</u>	Dominican hutia (2)	+	-	+	-	-	o	+	o	4	3
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>ECUADOR</u>											
<u>Tremarctos ornatus</u>	Spectacled bear (5)	-	+	-	-	o	o	+	-	4	3
<u>Tapirus pinchaque</u>	Mountain tapir (4)	-	+	-	-	o	o	o	+	4	3
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>EL SALVADOR</u>											
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3
<u>FRENCH GUIANA (France)</u>											
<u>Priodontes giganteus</u>	Giant armadillo (10)+	-	-	-	+	-	+	-		4	3
<u>Speothos venaticus</u>	Bush dog (9)	o	o	o	o	o	o	+	o	4	3
<u>Pteronura brasiliensis</u>	Giant otter (9)	+	o	o	o	+	-	+	-	1	1
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>GUATEMALA</u>											
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3
<u>GUYANA</u>											
<u>Priodontes giganteus</u>	Giant armadillo(10)+	-	-	-	+	-	+	-		4	3
<u>Speothos venaticus</u>	Bush dog (9)	o	o	o	o	o	o	+	o	4	3
<u>Pteronura brasiliensis</u>	Giant otter (9)	+	o	o	o	+	-	+	-	1	1
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>HAITI</u>											
<u>Plagiodontia aedium</u>	Cuvier's hutia (2)	+	-	-	-	o	o	+	o	4	1
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>HONDURAS</u>											
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>JAMAICA (U.K.)</u>											
<u>Geocapromys brownii brownii</u>	Jamaican hutia	+	-	-	-	-	+	+	o	4	4
<u>Monachus tropicalis</u>	Caribbean monk seal (3)	+	-	-	-	o	o	+	+	1	1
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>NICARAGUA</u>											
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3
<u>PANAMA</u>											
<u>Speothos venaticus</u>	Bush dog (9)	o	o	o	o	o	o	o	+	o	4 3
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>Tapirus bairdii</u>	Central American tapir (10)	+	+	-	-	-	o	+	-	2	3
<u>PARAGUAY</u>											
<u>Priodontes giganteus</u>	Giant armadillo (10)	+	-	-	-	+	-	+	-	4	3
<u>Burmeisteria retusa</u>	Greater pichiciego	o	o	o	o	o	o	o	o	4	4
<u>Chrysocyon brachyurus</u>	Maned ⁽³⁾ wolf (4)	+	-	-	-	+	o	+	-	4	3
<u>Speothos venaticus</u>	Bush dog (9)	o	o	o	o	o	o	o	+	o	4 3
<u>Pteronura brasiliensis</u>	Giant otter (9)	+	o	o	o	+	-	+	-	1	1
<u>Ozotoceros bezoarticus</u>	Pampas deer (4)	+	+	-	+	-	o	+	-	1	3
<u>PERU</u>											
<u>Cacajao rubicundus</u>	Red uakari (2)	+	-	-	-	+	-	+	-	1	3
<u>Callimico goeldii</u>	Goeldi's tamarin (2)	+	-	-	-	+	-	+	-	4	3
<u>Priodontes giganteus</u>	Giant armadillo (10)	+	-	-	-	+	-	+	-	4	3
<u>Speothos venaticus</u>	Bush dog (9)	o	o	o	o	o	o	o	+	o	4 3
<u>Tremarctos ornatus</u>	Spectacled bear (5)	-	+	-	-	o	o	+	-	4	3
<u>Pteronura brasiliensis</u>	Giant otter (9)	+	o	o	o	+	-	+	-	1	1
<u>Tapirus pinchaque</u>	Mountain tapir (4)	-	+	-	-	o	o	o	+	4	3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>SURINAM (Netherlands)</u>											
<u>Priodontes giganteus</u>	Giant armadillo (10)+	-	-	-	+	-	+	-		4	3
<u>Speothos venaticus</u>	Bush dog (9)	o	o	o	o	o	o	+	o	4	3
<u>Pteronura brasiliensis</u>	Giant otter (9)	+	o	o	o	+	-	+	-	1	1
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>SWAN ISLAND (U.S.A.)</u>											
<u>Geocapromys brownii thoracatus</u>	Little Swan Island hutia	o	o	o	o	o	o	o	o	4	4
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>URUGUAY</u>											
<u>Pteronura brasiliensis</u>	Giant otter (9)	+	o	o	o	+	-	+	-	1	1
<u>Ozotoceros bezoarticus</u>	Pampas deer (4)	+	+	-	+	-	o	+	-	1	3
<u>VENEZUELA</u>											
<u>Priodontes giganteus</u>	Giant armadillo (10)+	-	-	-	+	-	+	-		4	3
<u>Tremarctos ornatus</u>	Spectacled bear (5)	-	+	-	-	o	o	+	-	4	3
<u>Pteronura brasiliensis</u>	Giant otter (9)	+	o	o	o	+	-	+	-	1	1
<u>Trichechus manatus manatus</u>	West Indian manatee (17)	+	-	-	-	-	+	+	o	4	4
<u>Tapirus pinchaque</u>	Mountain tapir (4)	-	+	-	-	o	o	o	+	4	3

G. OCEANS AND OCEANIC ISLANDS

OCEANIC MAMMALS

<u>Balaenoptera physalus</u>	Fin whale	+	-	-	-	-	o	+	+	2	3
<u>Balaenoptera musculus musculus</u>	Blue whale	+	-	-	-	-	o	+	+	1	4
<u>Balaenoptera musculus breviceauda</u>	Pygmy blue whale	+	-	-	-	+	-	+	+	2	4
<u>Megaptera novaeangliae</u>	Humpback whale	+	-	-	-	-	o	+	+	2	3
<u>Balaena mysticetus</u>	Greenland right whale	+	-	-	-	-	o	+	+	2	3

		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<u>Eubalaena glacialis</u>	North Atlantic right whale	+	-	-	-	-	o	+	+	3	5
<u>Eubalaena sieboldii</u>	North Pacific right whale	+	-	-	-	-	o	+	+	2	1
<u>Eubalaena australis</u>	Southern right whale	+	-	-	-	-	o	+	+	2	3
 <u>EAST PACIFIC OCEAN</u>											
<u>Galapagos Islands (Ecuador)</u>											
<u>Arctocephalus australis</u> <u>galapagoensis</u>	Galapagos fur seal	+	-	-	-	-	o	-	-	4	4
 <u>NORTH PACIFIC OCEAN</u>											
<u>Hawaii Islands (U.S.A.)</u>											
<u>Monachus schauinslandi</u>	Hawaiian monk seal	+	-	-	+	-	-	+	+	4	3
<u>Palau Islands (U.S.A.)</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
 <u>SOUTH PACIFIC OCEAN</u>											
<u>New Caledonia (France)</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
<u>Solomon Islands (U.K.)</u>											
<u>Dugong dugon</u>	Dugong (22)	+	-	-	-	-	+	+	-	4	3
 <u>ANTARCTICA</u>											
<u>Ommatophoca rossi</u>	Ross seal	o	o	o	o	+	-	+	+	4	4